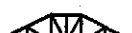
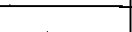




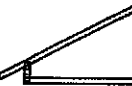
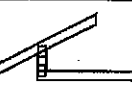
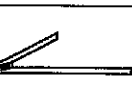
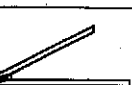
|                                                                                                                                                                     |                                                                                                                                                                         |  |  |  |                                                                                                                                                             |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|  <p><b>TAMARACK</b><br/>ROOF TRUSSES INC.<br/><small>ALFA LUMBER GROUP</small></p> | DELIVERY SHIPLIST                                                                                                                                                       |  |  |  |                                                                                                                                                             |  |
|                                                                                                                                                                     | Lumber Yard: TAMARACK LUMBER<br>Builder: GREEN PARK HOMES<br>Project: RUSSELL GARDENS PH.3<br>Location: WATERDOWN<br>Model: VALLEYCREEK 4<br>Lot #: 326<br>Elevation: 3 |  |  |  | Job Track: 51225<br>PlanLog: 202404<br>Layout ID: 408165<br>Ref #<br>Page: 1 of 2<br>Date: 04-15-2020<br>Designer: Andrew Conway<br>Sales Rep: Mario DiCano |  |

### Roof Trusses

| PROFILE                                                                             | QTY<br>PLY | MARK<br>TYPE         | PITCH  | SPAN     | HEIGHT  | LUMBER         | OVERHANG<br>LEFT<br>RIGHT | HEEL HEIGHT<br>LEFT<br>RIGHT | LBS.<br>BFT.     | BUNDLE #<br>STACK # | LOAD BY<br>REMARKS |
|-------------------------------------------------------------------------------------|------------|----------------------|--------|----------|---------|----------------|---------------------------|------------------------------|------------------|---------------------|--------------------|
|    | 1<br>2-ply | T21<br>Hip Girder    | 6 / 12 | 31-11-00 | 4-01-04 | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 310.75<br>194.00 |                     |                    |
|    | 1<br>2-ply | T21Z<br>Hip Girder   | 6 / 12 | 31-11-00 | 4-01-04 | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 310.75<br>194.00 |                     |                    |
|    | 2          | T22<br>Hip           | 6 / 12 | 31-11-00 | 5-01-04 | 2 x 4          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 259.03<br>161.67 |                     |                    |
|    | 2          | T23<br>Hip           | 6 / 12 | 31-11-00 | 6-01-04 | 2 x 4          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 258.25<br>161.33 |                     |                    |
|   | 2          | T24<br>Hip           | 6 / 12 | 31-11-00 | 7-01-04 | 2 x 4          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 271.21<br>168.33 |                     |                    |
|  | 2          | T25<br>Hip           | 6 / 12 | 31-11-00 | 8-01-04 | 2 x 4          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 262.57<br>165.00 |                     |                    |
|  | 7          | T26<br>Hip           | 6 / 12 | 31-11-00 | 9-01-12 | 2 x 4          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 904.65<br>565.83 |                     |                    |
|  | 4          | T320<br>Roof Special | 6 / 12 | 8-03-00  | 4-01-04 | 2 x 4          |                           | 1-00-00<br>4-01-04           | 119.18<br>76.00  |                     |                    |
|  | 1          | T33S<br>Hip Girder   | 6 / 12 | 13-01-00 | 3-11-00 | 2 x 4          | 1-03-08                   | 1-02-00<br>1-02-00           | 54.31<br>36.00   |                     |                    |
|  | 4          | T34<br>Common        | 6 / 12 | 13-01-00 | 5-00-04 | 2 x 4          | 1-03-08                   | 1-02-00<br>2-04-00           | 208.67<br>135.33 |                     |                    |
|  | 1          | T34CP<br>Hip         | 6 / 12 | 13-01-00 | 4-11-00 | 2 x 4          | 1-03-08                   | 1-02-00<br>2-04-00           | 51.56<br>33.83   |                     |                    |
|  | 6          | J21<br>Jack-Open     | 6 / 12 | 1-09-07  | 2-00-12 | 2 x 4          | 1-03-08<br>1-01           | 1-02-00<br>2-00-12           | 42.13<br>28.00   |                     |                    |
|  | 3          | J22<br>Jack-Open     | 6 / 12 | 1-10-08  | 3-00-12 | 2 x 4          | 1-03-08<br>1-10-15        | 1-02-00<br>2-01-04           | 28.71<br>18.00   |                     |                    |
|  | 2          | J23<br>Jack-Open     | 6 / 12 | 1-09-07  | 2-00-12 | 2 x 4          | 1-03-08<br>4-01-01        | 1-02-00<br>2-00-12           | 23.18<br>14.67   |                     |                    |

|                                                                                                                                                                     |                                                                                                                                                                         |                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p><b>TAMARACK</b><br/>ROOF TRUSSES INC.<br/><small>ALPA LUMBER GROUP</small></p> | DELIVERY SHIPLIST                                                                                                                                                       |                                                                                                                                                             |
|                                                                                                                                                                     | Lumber Yard: TAMARACK LUMBER<br>Builder: GREEN PARK HOMES<br>Project: RUSSELL GARDENS PH.3<br>Location: WATERDOWN<br>Model: VALLEYCREEK 4<br>Lot #: 326<br>Elevation: 3 | Job Track: 51225<br>PlanLog: 202404<br>Layout ID: 408165<br>Ref #<br>Page: 2 of 2<br>Date: 04-15-2020<br>Designer: Andrew Conway<br>Sales Rep: Mario DiCano |

### Roof Trusses

| PROFILE                                                                             | QTY<br>PLY | MARK<br>TYPE     | PITCH | SPAN    | HEIGHT  | LUMBER | OVERHANG<br>LEFT<br>RIGHT | HEEL HEIGHT<br>LEFT<br>RIGHT | LBS.<br>BFT.     | BUNDLE #<br>STACK # | LOAD BY<br>REMARKS |
|-------------------------------------------------------------------------------------|------------|------------------|-------|---------|---------|--------|---------------------------|------------------------------|------------------|---------------------|--------------------|
|    | 2          | J24<br>Jack-Open | 6 /12 | 3-09-07 | 3-00-12 | 2 x 4  | 1-03-08<br>2-01-01        | 1-02-00<br>3-00-12           | 28.26<br>17.33   |                     |                    |
|    | 11         | J25<br>Jack-Open | 6 /12 | 5-10-08 | 4-01-04 | 2 x 4  | 1-03-08                   | 1-02-00<br>4-01-04           | 184.74<br>117.33 |                     |                    |
|    | 2          | J31<br>Jack-Open | 6 /12 | 1-10-15 | 2-01-08 | 2 x 4  | 1-03-08<br>1-03-01        | 1-02-00<br>2-01-08           | 17.31<br>12.00   |                     |                    |
|    | 3          | J32<br>Jack-Open | 6 /12 | 3-02-00 | 2-09-00 | 2 x 4  | 1-03-08                   | 1-02-00<br>2-09-00           | 30.76<br>22.00   |                     |                    |
|   | 1          | J33<br>Jack-Open | 6 /12 | 6-10-00 | 2-01-08 | 2 x 4  |                           | 8-04<br>4-01-04              | 13.22<br>8.67    |                     |                    |
|  | 1          | J34<br>Jack-Open | 6 /12 | 6-10-00 | 3-01-08 | 2 x 4  |                           | 8-04<br>4-01-04              | 15.77<br>10.00   |                     |                    |
|  | 3          | J35<br>Jack-Open | 6 /12 | 6-10-00 | 4-01-04 | 2 x 4  |                           | 8-04<br>4-01-04              | 67.97<br>45.00   |                     |                    |

TOTAL # TRUSS= 63

TOTAL BFT OF ALL TRUSSES= 2184.32

BFT.

TOTAL WEIGHT OF ALL TRSSES 3460.95 LBS

### HARDWARE

| QTY | TYPE     | MODEL    | LENGTH |
|-----|----------|----------|--------|
| 9   | Hardware | LUS24    |        |
| 1   | Hardware | HGUS26-2 |        |
| 1   | Hardware | HUSC26-2 |        |

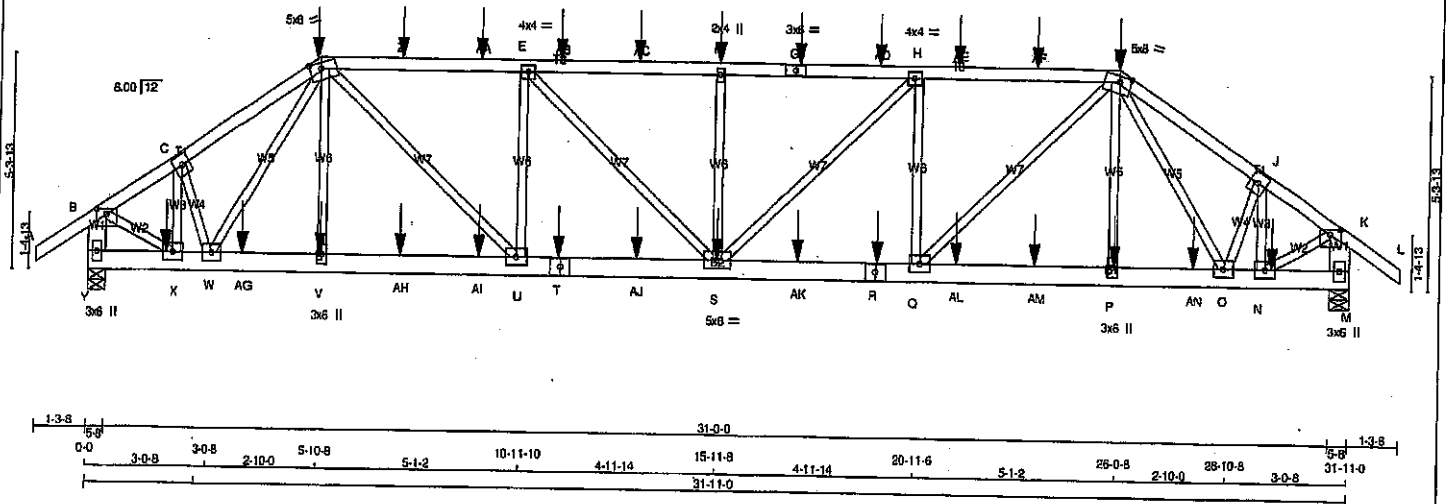
TOTAL NUMBER OF  
ITEMS=

11

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
|----------|------------|----------|-----|------------------|----------|
| 408163   | T1         | 1        | 2   | GREEN PARK HOMES |          |

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 03:46:35 2020 Page 1  
ID:KIHNL7kAuBVUgBrpQW7E8zlsy-lmv3EgegdKXpcuTINYXUUGDwL2jdW\_1K2addzPXI  
20-11-8 26-0-8 2-10-0 28-10-8 3-0-8 31-11-0 33-2-8  
Scale = 1:52.6



#### 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 |
| Y - B  | 2x6  | DRY    | No.2 SPF |
| M - K  | 2x6  | DRY    | No.2 SPF |
| Y - T  | 2x6  | DRY    | No.2 SPF |
| T - R  | 2x6  | DRY    | No.2 SPF |
| R - M  | 2x6  | DRY    | No.2 SPF |

ALL WEBS  
EXCEPT

DRY: SEASONED LUMBER.

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

| CHORDS #ROWS                             | SURFACE SPACING (#) | LOAD(PLF)   |
|------------------------------------------|---------------------|-------------|
| TOP CHORDS : (0.122"x3") SPIRAL NAILS    |                     |             |
| A-D 1                                    | 12                  | SIDE(61.0)  |
| D-G 1                                    | 12                  | SIDE(61.0)  |
| G-I 1                                    | 12                  | SIDE(61.0)  |
| I-L 1                                    | 12                  | SIDE(61.0)  |
| Y-B 2                                    | 12                  | TOP         |
| M-K 2                                    | 12                  | TOP         |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                     |             |
| Y-T 2                                    | 12                  | SIDE(183.1) |
| T-R 2                                    | 12                  | SIDE(183.1) |
| R-M 2                                    | 12                  | SIDE(183.1) |
| WEBS : (0.122"x3") SPIRAL NAILS          |                     |             |
| V-D 1                                    | 6                   | SIDE(30.3)  |
| P-I 1                                    | 6                   | SIDE(30.3)  |
| 2x3 1                                    | 6                   | SIDE(30.3)  |

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                | TMWV-p  | MT20 | 5.0 | 6.0 | 1.50 3.00 |
| C                | TMWV-w  | MT20 | 5.0 | 6.0 |           |
| D                | TTWWV-m | MT20 | 5.0 | 6.0 | 1.75 3.50 |
| E                | TMWV-w  | MT20 | 4.0 | 4.0 |           |
| F                | TMWV-w  | MT20 | 2.0 | 4.0 |           |
| G                | TS-t    | MT20 | 3.0 | 6.0 |           |
| H                | TMWV-w  | MT20 | 4.0 | 4.0 |           |
| I                | TTWWV-m | MT20 | 5.0 | 6.0 | 1.75 3.50 |
| J                | TMWV-w  | MT20 | 5.0 | 6.0 |           |
| K                | TMWV-p  | MT20 | 5.0 | 6.0 | 1.50 3.00 |
| M                | BMVW-p  | MT20 | 3.0 | 6.0 |           |
| N, O, Q, U, W, X |         |      |     |     |           |
| P                | BMWV-w  | MT20 | 5.0 | 6.0 |           |
| R                | BS-t    | MT20 | 5.0 | 6.0 |           |
| S                | BMWV-w  | MT20 | 5.0 | 6.0 |           |
| T                | 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 | RECORD BRG |
|----|-------------------------|---------------------------------|-----------|------------|
| JT | VERT                    | HORZ                            | DOWN      | HORZ       |
| Y  | 3538                    | 0                               | 0         | 5-8        |
| M  | 3537                    | 0                               | 0         | 5-8        |

##### UNFACTORED REACTIONS

|    | 1ST CASE | MAX. MIN. COMPONENT REACTIONS |       |            |       |         |       |
|----|----------|-------------------------------|-------|------------|-------|---------|-------|
| JT | COMBINED | SNOW                          | LIVE  | PERM. LIVE | WIND  | DEAD    | SOIL  |
| Y  | 2500     | 1855 / 0                      | 0 / 0 | 0 / 0      | 0 / 0 | 845 / 0 | 0 / 0 |
| M  | 2499     | 1854 / 0                      | 0 / 0 | 0 / 0      | 0 / 0 | 845 / 0 | 0 / 0 |

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

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.47 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.     | FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CSI (LC)  | WEBS  | MEMB. | FORCE (LBS) | FACTORED MAX. CSI (LC) |
|--------|-----------|-------------|---------------------------|----------------|-------|-------|-------------|------------------------|
| FR-TO  |           |             |                           |                | FR-TO |       |             |                        |
| A-B    | 0 / 35    |             | -91.8                     | -91.8 0.07 (1) | 10.00 | X-C   | -1140 / 0   | 0.10 (1)               |
| B-C    | -3539 / 0 |             | -91.8                     | -91.8 0.10 (1) | 4.91  | V-D   | 0 / 265     | 0.04 (4)               |
| C-D    | -3862 / 0 |             | -91.8                     | -91.8 0.15 (1) | 4.70  | D-U   | 0 / 2416    | 0.30 (1)               |
| D-Z    | -5401 / 0 |             | -91.8                     | -91.8 0.54 (1) | 3.85  | U-E   | -1507 / 0   | 0.31 (1)               |
| Z-AA   | -5401 / 0 |             | -91.8                     | -91.8 0.54 (1) | 3.65  | E-S   | 0 / 703     | 0.09 (1)               |
| AA-E   | -5401 / 0 |             | -91.8                     | -91.8 0.57 (1) | 3.65  | S-F   | -836 / 0    | 0.17 (1)               |
| E-AB   | -5901 / 0 |             | -91.8                     | -91.8 0.57 (1) | 3.47  | S-H   | 0 / 708     | 0.09 (1)               |
| AB-AC  | -5901 / 0 |             | -91.8                     | -91.8 0.57 (1) | 3.47  | Q-H   | -1505 / 0   | 0.31 (1)               |
| AC-F   | -5901 / 0 |             | -91.8                     | -91.8 0.57 (1) | 3.47  | Q-I   | 0 / 2413    | 0.30 (1)               |
| F-G    | -5901 / 0 |             | -91.8                     | -91.8 0.57 (1) | 3.48  | P-I   | 0 / 265     | 0.04 (4)               |
| G-AD   | -5901 / 0 |             | -91.8                     | -91.8 0.57 (1) | 3.48  | N-J   | -1139 / 0   | 0.10 (1)               |
| AD-H   | -5901 / 0 |             | -91.8                     | -91.8 0.57 (1) | 3.48  | B-X   | 0 / 3248    | 0.40 (1)               |
| H-AE   | -5397 / 0 |             | -91.8                     | -91.8 0.54 (1) | 3.65  | N-K   | 0 / 3247    | 0.40 (1)               |
| AE-AF  | -5397 / 0 |             | -91.8                     | -91.8 0.54 (1) | 3.65  | C-W   | 0 / 681     | 0.08 (1)               |
| AF-I   | -5397 / 0 |             | -91.8                     | -91.8 0.54 (1) | 3.65  | W-D   | -948 / 0    | 0.26 (1)               |
| I-J    | -3860 / 0 |             | -91.8                     | -91.8 0.15 (1) | 4.70  | Q-J   | 0 / 681     | 0.08 (1)               |
| J-K    | -3538 / 0 |             | -91.8                     | -91.8 0.10 (1) | 4.91  | I-O   | -947 / 0    | 0.26 (1)               |
| K-L    | 0 / 35    |             | -91.8                     | -91.8 0.07 (1) | 10.00 |       |             |                        |
| Y-B    | -3500 / 0 |             | 0.0                       | 0.0 0.13 (1)   | 7.48  |       |             |                        |
| M-K    | -3498 / 0 |             | 0.0                       | 0.0 0.13 (1)   | 7.48  |       |             |                        |
| Y-X    | 0 / 0     |             | -18.5                     | -18.5 0.02 (1) | 10.00 |       |             |                        |
| X-W    | 0 / 2961  |             | -18.5                     | -18.5 0.26 (1) | 10.00 |       |             |                        |
| W-AG   | 0 / 3659  |             | -18.5                     | -18.5 0.30 (1) | 10.00 |       |             |                        |
| AG-V   | 0 / 3659  |             | -18.5                     | -18.5 0.30 (1) | 10.00 |       |             |                        |
| V-AH   | 0 / 3685  |             | -18.5                     | -18.5 0.28 (1) | 10.00 |       |             |                        |
| AH-AI  | 0 / 3665  |             | -18.5                     | -18.5 0.28 (1) | 10.00 |       |             |                        |
| AI-U   | 0 / 3665  |             | -18.5                     | -18.5 0.28 (1) | 10.00 |       |             |                        |
| U-T    | 0 / 5401  |             | -18.5                     | -18.5 0.40 (1) | 10.00 |       |             |                        |
| T-AJ   | 0 / 5401  |             | -18.5                     | -18.5 0.40 (1) | 10.00 |       |             |                        |
| AJ-S   | 0 / 5401  |             | -18.5                     | -18.5 0.40 (1) | 10.00 |       |             |                        |
| S-AK   | 0 / 5398  |             | -18.5                     | -18.5 0.40 (1) | 10.00 |       |             |                        |
| AK-R   | 0 / 5398  |             | -18.5                     | -18.5 0.40 (1) | 10.00 |       |             |                        |
| R-Q    | 0 / 5398  |             | -18.5                     | -18.5 0.40 (1) | 10.00 |       |             |                        |
| Q-AL   | 0 / 3663  |             | -18.5                     | -18.5 0.28 (1) | 10.00 |       |             |                        |
| AL-AM  | 0 / 3663  |             | -18.5                     | -18.5 0.28 (1) | 10.00 |       |             |                        |
| AM-P   | 0 / 3663  |             | -18.5                     | -18.5 0.28 (1) | 10.00 |       |             |                        |
| P-AN   | 0 / 3658  |             | -18.5                     | -18.5 0.30 (1) | 10.00 |       |             |                        |
| AN-O   | 0 / 3658  |             | -18.5                     | -18.5 0.30 (1) | 10.00 |       |             |                        |
| O-N    | 0 / 2980  |             | -18.5                     | -18.5 0.26 (1) | 10.00 |       |             |                        |
| N-M    | 0 / 0     |             | -18.5                     | -18.5 0.02 (1) | 10.00 |       |             |                        |

TOTAL WEIGHT = 2 X 163 = 326 lb

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |   |      |     |
|------------|---|------|-----|
| TOP CH. LL | = | 25.8 | PSF |
| DL         | = | 6.0  | PSF |
| BOT CH. LL | = | 0.0  | PSF |
| DL         | = | 7.4  | PSF |
| TOTAL LOAD | = | 39.0 | PSF |

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF CBC 2018, CBC 2012, ABC 2019  
- PART 9 OF CBC 2012 (2019 AMENDMENT)  
- CSA 089-09, CSA 089-14  
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.08")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.12")  
ALLOWABLE DEFL.(TL) = L/360 (1.08")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.23")

CSI: TC=0.57/1.00 (E-F:1), BC=0.40/1.00 (S-U:1),  
WB=0.40/1.00 (B-X:1), SS=0.23/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

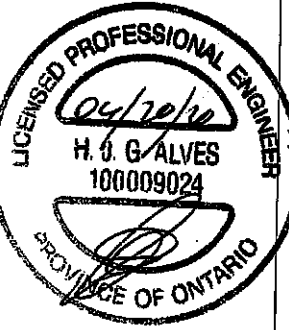
##### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

SI GRIP=0.85 (I) (INPUT=0.90)  
SI METAL=0.50 (R) (INPUT=1.00)



Structural component only 1/2  
DWG# T-2006468

CONTINUED ON PAGE 2

|                                 |            |          |     |                  |          |
|---------------------------------|------------|----------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408163                          | T1         | 1        | 2   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            |          |     |                  |          |

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:46:35 2020 Page 2  
ID:KIHNL?kAuBVUgBrpQW7E6zls6v-tmv3EegndkXacuTINYXUUGDwL2jdiw 1K2adczPIX

**PLATES (table is in inches)**

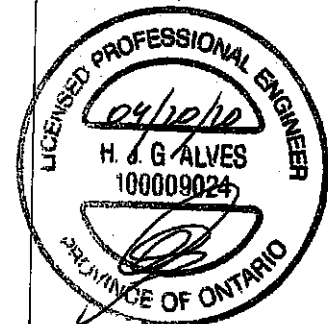
| JT TYPE | PLATES | W   | LEN | Y | X |
|---------|--------|-----|-----|---|---|
| V BMW+w | MT20   | 3.0 | 6.0 |   |   |
| Y BMW+p | MT20   | 3.0 | 6.0 |   |   |

**FACTORED CONCENTRATED LOADS (LBS)**

| JT | LOC.     | LC1  | MAX- | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|----------|------|------|------|-------|------|-------|------|-------|
| D  | 5-10-8   | -584 | -584 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| F  | 15-11-8  | -178 | -178 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| G  | 17-11-12 | -178 | -178 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| I  | 28-0-8   | -584 | -584 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| N  | 29-11-12 | -38  | -38  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| P  | 25-11-12 | -38  | -38  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| R  | 19-11-12 | -38  | -38  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| S  | 15-11-8  | -38  | -38  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| T  | 11-11-4  | -38  | -38  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| V  | 5-11-4   | -38  | -38  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| X  | 1-11-4   | -38  | -38  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| Z  | 7-11-4   | -178 | -178 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AA | 9-11-4   | -178 | -178 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AB | 11-11-4  | -178 | -178 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AC | 13-11-4  | -178 | -178 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AD | 19-11-12 | -178 | -178 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AE | 21-11-12 | -178 | -178 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AF | 23-11-12 | -178 | -178 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AG | 3-11-4   | -38  | -38  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AH | 7-11-4   | -38  | -38  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AI | 9-11-4   | -38  | -38  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AJ | 13-11-4  | -38  | -38  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AK | 17-11-12 | -38  | -38  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AL | 21-11-12 | -38  | -38  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AM | 23-11-12 | -38  | -38  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AN | 27-11-12 | -38  | -38  | ---  | FRONT | VERT | TOTAL | ---  | C1    |

**CONNECTION REQUIREMENTS**

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



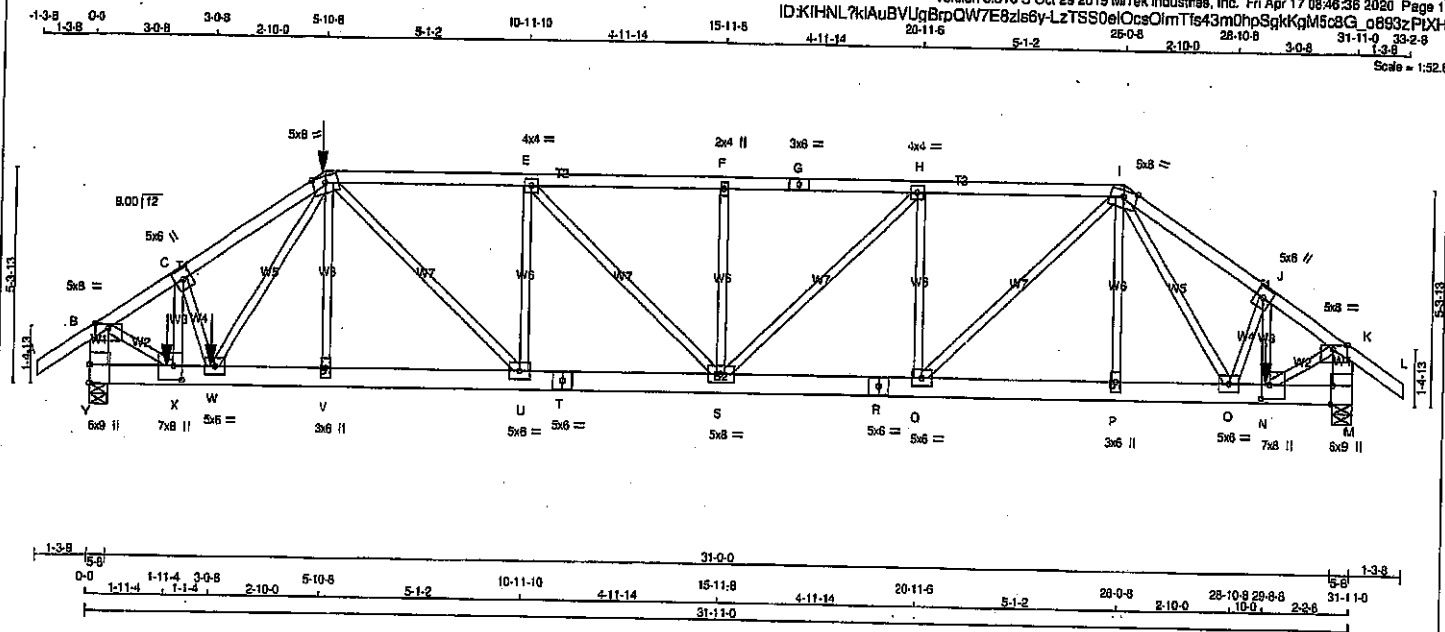
Structural component only  
DWG# T-2006468

72

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | TRUSS DESC. | DRWG NO. |
|----------|------------|----------|-----|------------------|-------------|----------|
| 408163   | T1Z        | 1        | 2   | GREEN PARK HOMES |             |          |

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:46:36 2020 Page 1  
ID:KIHNL?kIaUvUgBpQW7E8zls6y-LzTSS0eICssOimTts43m0h0SpkKgM5c8G\_o893zPlXH



| LUMBER          | N. L. G. A. RULES | CHORDS | SIZE | DRY | 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 |        |        |
| Y - B           | 2x6               | DRY    | No.2 | SPF |        |        |
| M - K           | 2x6               | DRY    | No.2 | SPF |        |        |
| Y - T           | 2x6               | DRY    | No.2 | SPF |        |        |
| T - R           | 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-D 1                                    | 12                   | SIDE(61.0)  |
| D-G 1                                    | 12                   | SIDE(61.0)  |
| G-I 1                                    | 12                   | TOP         |
| I-L 1                                    | 12                   | TOP         |
| Y-B 2                                    | 12                   | TOP         |
| M-K 2                                    | 12                   | TOP         |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |             |
| Y-T 2                                    | 3                    | SIDE(915.6) |
| T-R 2                                    | 12                   | SIDE(915.6) |
| R-M 2                                    | 12                   | SIDE(915.6) |
| WEBS : (0.122"x3") SPIRAL NAILS          |                      |             |
| 2-3 1                                    | 8                    |             |
| C-X 1                                    | 2                    | SIDE(391.7) |
| J-N 1                                    | 2                    |             |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.  
GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.

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

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

| PLATES (table is in inches) | JT TYPE | PLATES | W   | LEN  | Y    | X         |
|-----------------------------|---------|--------|-----|------|------|-----------|
| B TMWV-p                    | MT20    | 5.0    | 8.0 | 1.25 | 4.00 |           |
| C TMWV-t                    | MT20    | 5.0    | 8.0 |      |      | Edge      |
| D TTWVW-m                   | MT20    | 5.0    | 8.0 |      |      |           |
| E TMWV-t                    | MT20    | 4.0    | 4.0 |      |      |           |
| F TMWV-w                    | MT20    | 2.0    | 4.0 |      |      |           |
| G TS-t                      | MT20    | 3.0    | 6.0 |      |      |           |
| H TMWV-t                    | MT20    | 4.0    | 4.0 |      |      |           |
| I TTWVW-m                   | MT20    | 5.0    | 8.0 |      |      | Edge      |
| J TMWV-t                    | MT20    | 5.0    | 8.0 |      |      |           |
| K TMWV-p                    | MT20    | 5.0    | 8.0 | 1.25 | 4.00 |           |
| M BMV-t                     | MT20    | 6.0    | 9.0 |      |      | Edge 0.50 |
| N BMWV-t                    | MT20    | 7.0    | 8.0 |      |      | 4.25 2.50 |
| O, Q, U, W                  |         |        |     |      |      |           |
| O BMWV-t                    | MT20    | 5.0    | 6.0 |      |      |           |
| P BMWV-w                    | MT20    | 3.0    | 6.0 |      |      |           |
| R SS-t                      | MT20    | 5.0    | 6.0 |      |      |           |
| S BMWVW-t                   | MT20    | 5.0    | 8.0 |      |      |           |

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

| BEARINGS | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT | RECORD |
|----------|-------------------------|---------------------------------|-------|--------|
| JT       | VERT                    | DOWN                            | BRG   | BRG    |
| Y        | 4889                    | 0                               | 5-8   | 5-8    |
| M        | 6873                    | 0                               | 5-8   | 5-8    |

| UNFACTORED REACTIONS | 1ST CASE | MAX MIN. COMPONENT REACTIONS        |
|----------------------|----------|-------------------------------------|
| JT                   | COMBINED | SNOW LIVE PERM. LIVE WIND DEAD SOIL |
| Y                    | 3433     | 2308 / 0 0 / 0 0 / 0 1126 / 0 0 / 0 |
| M                    | 4850     | 3240 / 0 0 / 0 0 / 0 1610 / 0 0 / 0 |

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

BRACING  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.87 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

### LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MEMB.     | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (LBS) | MAX. FACTORED HORIZ. LOAD (LBS) | MAX. FACTORED UPLIFT (LBS) | WIND          | DEAD      | SOIL |
|--------|-----------|---------------------------|---------------------------|---------------------------------|----------------------------|---------------|-----------|------|
| FR-TO  |           |                           |                           |                                 |                            |               |           |      |
| A-B    | 0 / 35    | -91.8                     | -91.8                     | 0.07 (1)                        | 10.00                      | X-C -1315 / 0 | 0.12 (1)  |      |
| B-C    | -4946 / 0 | -91.8                     | -91.8                     | 0.11 (1)                        | 4.27                       | V-D 0 / 383   | 0.04 (1)  |      |
| C-D    | -5328 / 0 | -91.8                     | -91.8                     | 0.22 (1)                        | 4.05                       | D-U 0 / 1211  | 0.15 (1)  |      |
| D-E    | -4737 / 0 | -91.8                     | -91.8                     | 0.30 (1)                        | 4.18                       | U-E -766 / 0  | 0.16 (1)  |      |
| E-F    | -5022 / 0 | -91.8                     | -91.8                     | 0.31 (1)                        | 4.06                       | S-E 0 / 401   | 0.06 (1)  |      |
| F-G    | -5022 / 0 | -91.8                     | -91.8                     | 0.31 (1)                        | 4.06                       | S-F -420 / 0  | 0.09 (1)  |      |
| G-H    | -5022 / 0 | -91.8                     | -91.8                     | 0.31 (1)                        | 4.06                       | S-H 0 / 332   | 0.04 (1)  |      |
| H-I    | -4787 / 0 | -91.8                     | -91.8                     | 0.30 (1)                        | 4.18                       | Q-I -747 / 0  | 0.15 (1)  |      |
| I-J    | -6115 / 0 | -91.8                     | -91.8                     | 0.27 (1)                        | 3.76                       | Q-I 0 / 1148  | 0.14 (1)  |      |
| J-K    | -6704 / 0 | -91.8                     | -91.8                     | 0.18 (1)                        | 3.67                       | P-I 0 / 233   | 0.03 (1)  |      |
| K-L    | 0 / 35    | -91.8                     | -91.8                     | 0.07 (1)                        | 10.00                      | N-J 0 / 1399  | 0.17 (1)  |      |
| Y-B    | -4819 / 0 | 0.0                       | 0.0                       | 0.17 (1)                        | 6.60                       | B-X 0 / 4525  | -0.56 (1) |      |
| M-K    | -6469 / 0 | 0.0                       | 0.0                       | 0.23 (1)                        | 5.84                       | N-K 0 / 6121  | 0.76 (1)  |      |
| Y-X    | 0 / 0     | -18.5                     | -18.5                     | 0.02 (1)                        | 10.00                      | C-W 0 / 854   | 0.11 (1)  |      |
| X-W    | 0 / 4124  | -18.5                     | -18.5                     | 0.46 (1)                        | 10.00                      | W-D 0 / 1148  | 0.14 (1)  |      |
| W-V    | 0 / 3860  | -18.5                     | -18.5                     | 0.45 (1)                        | 10.00                      | O-J -1448 / 0 | 0.14 (1)  |      |
| V-U    | 0 / 3967  | -18.5                     | -18.5                     | 0.32 (1)                        | 10.00                      | I-O 0 / 2298  | 0.28 (1)  |      |
| U-T    | 0 / 4738  | -18.5                     | -18.5                     | 0.34 (1)                        | 10.00                      |               |           |      |
| T-S    | 0 / 4738  | -18.5                     | -18.5                     | 0.34 (1)                        | 10.00                      |               |           |      |
| S-R    | 0 / 4767  | -18.5                     | -18.5                     | 0.35 (1)                        | 10.00                      |               |           |      |
| R-Q    | 0 / 4767  | -18.5                     | -18.5                     | 0.35 (1)                        | 10.00                      |               |           |      |
| Q-P    | 0 / 3961  | -18.5                     | -18.5                     | 0.31 (1)                        | 10.00                      |               |           |      |
| P-O    | 0 / 3956  | -18.5                     | -18.5                     | 0.33 (1)                        | 10.00                      |               |           |      |
| O-N    | 0 / 8579  | -18.5                     | -18.5                     | 0.68 (1)                        | 10.00                      |               |           |      |
| N-M    | 0 / 0     | -18.5                     | -18.5                     | 0.32 (1)                        | 10.00                      |               |           |      |

| FACTORED CONCENTRATED LOADS (LBS) | JT LOC. | LC1   | MAX.  | FACE | DIR. | TYPE | TOTAL |
|-----------------------------------|---------|-------|-------|------|------|------|-------|
| D                                 | 5-10-8  | -399  | -399  | ---  | BACK | VERT | TOTAL |
| N                                 | 29-8-8  | -5011 | -5011 | ---  | BACK | VERT | TOTAL |
| W                                 | 3-0-8   | -2525 | -2525 | ---  | BACK | VERT | TOTAL |
| X                                 | 1-11-4  | -38   | -38   | ---  | BACK | VERT | TOTAL |

### CONNECTION REQUIREMENTS

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

### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 25.6 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN./C/C

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

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, (2019 AMENDMENT)  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 086-09, CSA 088-14  
- TPIC 2011, TPIC 2014

(65% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/390 (1.06")  
CALCULATED VERT. DEFL.(LL) = L/899 (0.11")  
ALLOWABLE DEFL.(TL) = L/360 (1.06")  
CALCULATED VERT. DEFL.(TL) = L/899 (0.20")

CSI: TC=0.31/1.00 (E-F:1), BC=0.68/1.00 (N-O:1), WB=0.78/1.00 (K-N:1), SS=0.25/1.00 (N-O:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

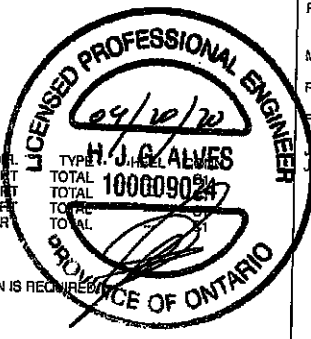
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1667 788 1997 1658

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

GRIP=0.87 (B) (INPUT = 0.90)  
METAL=0.72 (X) (INPUT = 1.00)



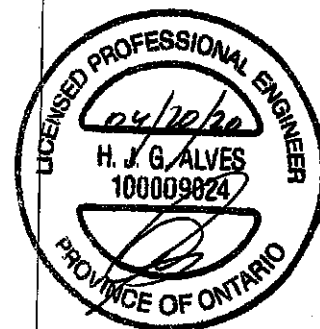
|                                 |            |          |     |                  |          |
|---------------------------------|------------|----------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408163                          | T1Z        | 1        | 2   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            |          |     | TRUSS DESC.      |          |

Version 8.310 S Oct 29 2019 MITek Industries, Inc. Fri Apr 17 08:46:36 2020 Page 2  
ID:KIHNL7KIAuBVUgBrnQW7E8zls6y-LzTSS0elOcsQImTIs43m0hoSgkKgM5c8G o893zPFXH

**PLATES (table is in inches)**

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| T  | BS-t    | MT20   | 5.0 | 6.0 |      |      |
| V  | BMW+w   | MT20   | 3.0 | 6.0 |      |      |
| X  | BMW/W+t | MT20   | 7.0 | 8.0 | 4.25 | 2.50 |
| Y  | BMV1+t  | MT20   | 6.0 | 9.0 | 5.50 |      |

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



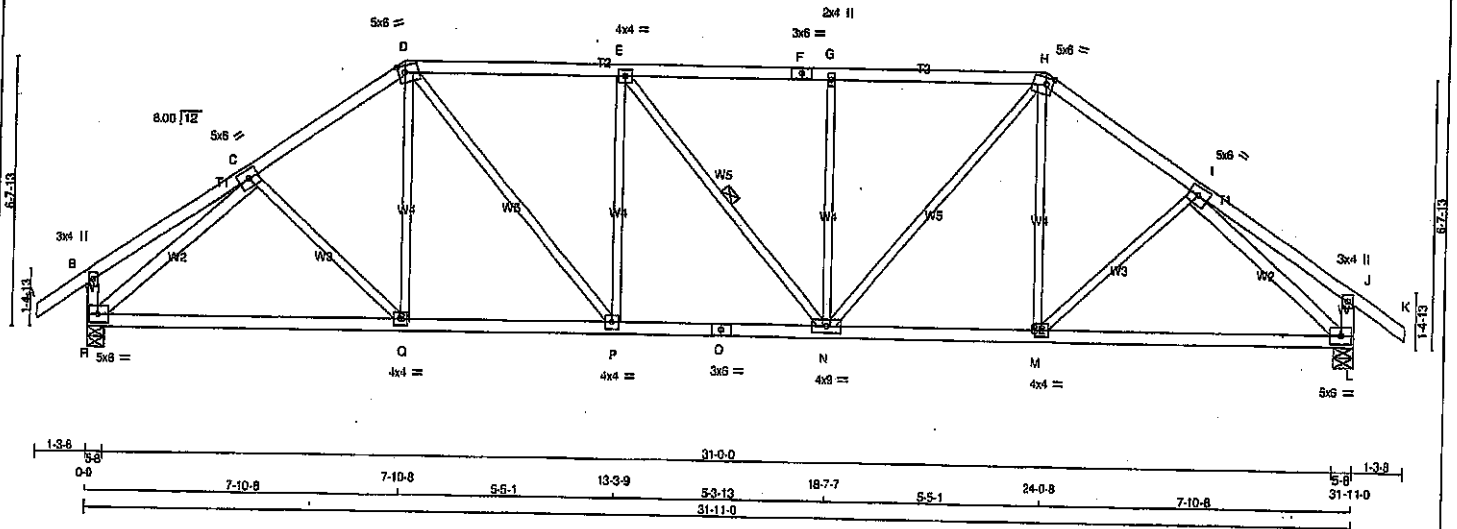
Structural component only  
DWG# T-2006469

3/2

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | TRUSS DESC. | DRWG NO. |
|----------|------------|----------|-----|------------------|-------------|----------|
| 408163   | T2         | 2        | 1   | GREEN PARK HOMES |             |          |

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:46:37 2020 Page 1  
ID:KIHNL7kAuBVUgBrpQW7E8zls8y-p80qflw9w\_FvwZsPnb7ZvMav8k55XdHUeXhivZpIXG  
18-7-7 5-5-1 24-0-8 3-10-0 27-10-8 4-0-8 31-11-0 33-2-8  
Scale = 1:52.6



# LUMBER

## N. L. G. A. RULES

### CHORDS

| SIZE  | DRY | LUMBER |
|-------|-----|--------|
| A - D | 2x4 | No.2   |
| D - F | 2x4 | DRY    |
| F - H | 2x4 | DRY    |
| H - K | 2x4 | DRY    |
| K - L | 2x4 | DRY    |
| L - J | 2x4 | DRY    |
| J - O | 2x4 | DRY    |
| O - L | 2x4 | DRY    |

|          |     |     |      |
|----------|-----|-----|------|
| ALL WEBS | 2x3 | DRY | No.2 |
| EXCEPT   |     |     |      |
| R - C    | 2x4 | DRY | No.2 |
| I - L    | 2x4 | DRY | No.2 |

DRY: SEASONED LUMBER.

## PLATES (table in inches)

| JT      | TYPE   | PLATES | W   | LEN | Y    | X    |
|---------|--------|--------|-----|-----|------|------|
| B       | TMV+p  | MT20   | 3.0 | 4.0 |      |      |
| C       | TMW-W  | MT20   | 5.0 | 6.0 |      |      |
| D       | TTWW-m | MT20   | 5.0 | 6.0 | 2.00 | 2.00 |
| E       | TMW-W  | MT20   | 4.0 | 4.0 |      |      |
| F       | TS-I   | MT20   | 3.0 | 6.0 |      |      |
| G       | TMW-W  | MT20   | 2.0 | 4.0 |      |      |
| H       | TTWW-m | MT20   | 5.0 | 6.0 | 2.00 | 2.00 |
| I       | TMW-W  | MT20   | 5.0 | 6.0 |      |      |
| J       | TMV+p  | MT20   | 3.0 | 4.0 |      |      |
| L       | BMVW-I | MT20   | 5.0 | 6.0 |      |      |
| M, P, Q |        |        |     |     |      |      |
| N       | BMW-W  | MT20   | 4.0 | 4.0 |      |      |
| O       | BS-I   | MT20   | 4.0 | 9.0 |      |      |
| R       | BMVW-I | MT20   | 3.0 | 6.0 |      |      |

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

### BUILDING DESIGNER

#### BEARINGS

| FACTORED       | MAXIMUM FACTORED | INPUT  | REQD  |
|----------------|------------------|--------|-------|
| GROSS REACTION | GROSS REACTION   | BRG    | BRG   |
| JT VERT        | DOWN             | UPLIFT | IN-SX |
| R 1885 0       | 1885 0           | 5-8    | 5-8   |
| L 1885 0       | 1885 0           | 5-8    | 5-8   |

#### UNFACTORED REACTIONS

| 1ST CASE    | MAX/MIN | COMPONENT REACTIONS |           |       |         |       |  |
|-------------|---------|---------------------|-----------|-------|---------|-------|--|
| JT COMBINED | SNOW    | LIVE                | PERMILIVE | WIND  | DEAD    | SOIL  |  |
| R 1331      | 887 / 0 | 0 / 0               | 0 / 0     | 0 / 0 | 444 / 0 | 0 / 0 |  |
| L 1331      | 887 / 0 | 0 / 0               | 0 / 0     | 0 / 0 | 444 / 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 = 4.12 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MEMB.     | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (LBS) | MAX. FACTORED VERT. LOAD (LBS) | MAX. FACTORED VERT. LOAD (LBS) | MAX. FACTORED VERT. LOAD (LBS) | MAX. FACTORED VERT. LOAD (LBS) | MAX. FACTORED VERT. LOAD (LBS) |
|--------|-----------|---------------------------|---------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| FR-TO  |           |                           |                           |                                |                                |                                |                                |                                |                                |
| A-B    | 0 / 35    | -91.8                     | -91.8 0.12 (1)            | 10.00                          | C-Q                            | 0 / 57                         | 0.02 (4)                       |                                |                                |
| B-C    | 0 / 22    | -91.8                     | -91.8 0.22 (1)            | 10.00                          | Q-D                            | 0 / 145                        | 0.05 (4)                       |                                |                                |
| C-D    | -2020 / 0 | -91.8                     | -91.8 0.29 (1)            | 4.49                           | D-P                            | 0 / 814                        | 0.18 (1)                       |                                |                                |
| D-E    | -2191 / 0 | -91.8                     | -91.8 0.47 (1)            | 4.12                           | P-E                            | -533 / 0                       | 0.39 (1)                       |                                |                                |
| E-F    | -2189 / 0 | -91.8                     | -91.8 0.47 (1)            | 4.12                           | E-N                            | -2 / 0                         | 0.00 (1)                       |                                |                                |
| F-G    | -2189 / 0 | -91.8                     | -91.8 0.47 (1)            | 4.12                           | N-G                            | -533 / 0                       | 0.39 (1)                       |                                |                                |
| G-H    | -2189 / 0 | -91.8                     | -91.8 0.47 (1)            | 4.13                           | H-N                            | 0 / 811                        | 0.18 (1)                       |                                |                                |
| H-I    | -2020 / 0 | -91.8                     | -91.8 0.29 (1)            | 4.49                           | M-H                            | 0 / 147                        | 0.05 (4)                       |                                |                                |
| I-J    | 0 / 22    | -91.8                     | -91.8 0.22 (1)            | 10.00                          | M-I                            | 0 / 57                         | 0.02 (4)                       |                                |                                |
| J-K    | 0 / 35    | -91.8                     | -91.8 0.12 (1)            | 10.00                          | R-C                            | -2272 / 0                      | 0.77 (1)                       |                                |                                |
| R-B    | -266 / 0  | 0.0                       | 0.0 0.03 (1)              | 7.81                           | I-L                            | -2273 / 0                      | 0.77 (1)                       |                                |                                |
| L-J    | -266 / 0  | 0.0                       | 0.0 0.03 (1)              | 7.81                           |                                |                                |                                |                                |                                |
| R-Q    | 0 / 1655  | -18.5                     | -18.5 0.40 (1)            | 10.00                          |                                |                                |                                |                                |                                |
| Q-P    | 0 / 1652  | -18.5                     | -18.5 0.40 (1)            | 10.00                          |                                |                                |                                |                                |                                |
| P-O    | 0 / 2191  | -18.5                     | -18.5 0.41 (1)            | 10.00                          |                                |                                |                                |                                |                                |
| O-N    | 0 / 2191  | -18.5                     | -18.5 0.41 (1)            | 10.00                          |                                |                                |                                |                                |                                |
| N-M    | 0 / 1652  | -18.5                     | -18.5 0.41 (1)            | 10.00                          |                                |                                |                                |                                |                                |
| M-L    | 0 / 1655  | -18.5                     | -18.5 0.40 (1)            | 10.00                          |                                |                                |                                |                                |                                |

TOTAL WEIGHT = 2 X 142 = 283 b

## DESIGN CRITERIA

### SPECIFIED LOADS:

|                       |               |
|-----------------------|---------------|
| TOP CH.               | LL = 25.6 PSF |
| DL = 6.0 PSF          |               |
| BOT CH.               | LL = 0.0 PSF  |
| DL = 7.4 PSF          |               |
| TOTAL LOAD = 39.0 PSF |               |

SPACING = 24.0 IN./C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, OBC 2012, ABC 2018
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (1.06")  
CALCULATED VERT. DEFL.(LL) = L/989 (0.10")  
ALLOWABLE DEFL.(TL) = L/360 (1.06")  
CALCULATED VERT. DEFL.(TL) = L/989 (0.19")

CSI: TC=0.47/1.00 (D-E-1), BC=0.41/1.00 (N-P-1), WB=0.77/1.00 (I-L-1), SSI=0.23/1.00 (D-E-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

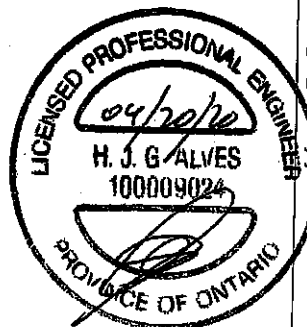
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1687 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JL GRIP= 0.86 (D) (INPUT = 0.90)  
JS METAL= 0.73 (C) (INPUT = 1.00)

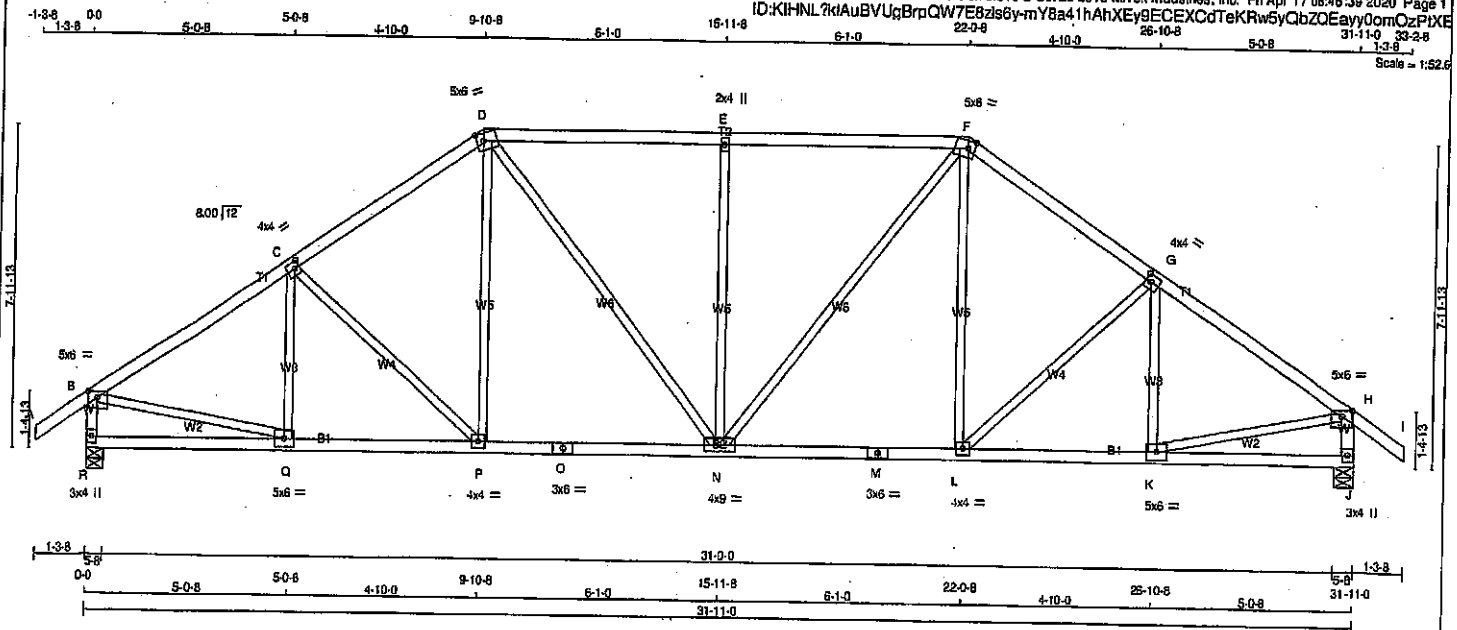


Structural component only  
DWG# T-2006470

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | TRUSS DESC. | DRWG NO. |
|----------|------------|----------|-----|------------------|-------------|----------|
| 408163   | T3         | 2        | 1   | GREEN PARK HOMES |             |          |

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MITek Industries, Inc. Fri Apr 17 08:48:39 2020 Page 1  
ID:KHNL7kiAuBVUgBrpQW7E8zls6y-mY8a41hAhXEy9ECEXCdTeKRW5yQbZQEayy0omOzPiXE



# LUMBER

## N. L. G. A. RULES

### CHORDS

#### SIZE

#### DRY

#### LUMBER

#### DESCR.

#### SPF

#### NO. 2

#### SPF

#### NO. 2

#### SPF

#### NO. 2

#### SPF

#### NO. 2

#### SPF

#### NO. 2

#### SPF

#### NO. 2

#### SPF

#### NO. 2

#### SPF

#### NO. 2

#### SPF

#### NO. 2

#### SPF

#### NO. 2

#### SPF

#### NO. 2

#### SPF

#### NO. 2

#### SPF

#### NO. 2

#### SPF

#### NO. 2

#### SPF

#### NO. 2

#### SPF

#### NO. 2

#### SPF

#### NO. 2

#### SPF

#### NO. 2

#### SPF

#### NO. 2

#### SPF

#### NO. 2

#### SPF

#### NO. 2

#### SPF

#### NO. 2

#### SPF

#### NO. 2

#### SPF

#### NO. 2

#### SPF

#### NO. 2

#### SPF

#### NO. 2

#### SPF

#### NO. 2

#### SPF

#### NO. 2

#### SPF

#### NO. 2

#### SPF

#### NO. 2

DRY, SEASONED LUMBER.

## PLATES (table in inches)

### JT TYPE

### PLATES

### W

### LEN

### Y

### X

### W

### LEN

### Y

### X

### W

### LEN

### Y

### X

### W

### LEN

### Y

### X

### W

### LEN

### Y

### X

### W

### LEN

### Y

### X

### W

### LEN

### Y

### X

### W

### LEN

### Y

### X

### W

### LEN

### Y

### X

### W

### LEN

### Y

### X

### W

### LEN

### Y

### X

### W

### LEN

### Y

### X

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

### BUILDING DESIGNER

### BEARINGS

### FACTORED

### GROSS REACTION

### MAXIMUM FACTORED

### INPUT

### REQD

### BRG

### IN-SX

### BRG

### IN-SX

### BRG

### IN-SX

### BRG

### IN-SX

### BRG

### IN-SX

### BRG

### IN-SX

### BRG

### IN-SX

### BRG

### IN-SX

### BRG

### IN-SX

### BRG

### IN-SX

### BRG

### IN-SX

### BRG

### IN-SX

### BRG

### IN-SX

### BRG

### IN-SX

### BRG

### IN-SX

### BRG

### IN-SX

### BRG

### IN-SX

### BRG

### IN-SX

### BRG

### IN-SX

### BRG

### IN-SX

### BRG

### IN-SX

### BRG

### IN-SX

### BRG

### IN-SX

### BRG

### IN-SX

### BRG

### IN-SX

### BRG

### IN-SX

### BRG

### IN-SX

### BRG

### IN-SX

### BRG

### IN-SX

### BRG

## UNFACTORED REACTIONS

### 1ST CASE

### COMBINED

### SNOW

### LIVE

### PERM.LIVE

### WIND

### DEAD

### SOIL

### 1331

### 887 / 0

### 0 / 0

### 0 / 0

### 0 / 0

### 0 / 0

### 0 / 0

### 0 / 0

### 0 / 0

### 0 / 0

### 0 / 0

### 0 / 0

### 0 / 0

### 0 / 0

### 0 / 0

### 0 / 0

### 0 / 0

### 0 / 0

### 0 / 0

### 0 / 0

### 0 / 0

### 0 / 0

### 0 / 0

### 0 / 0

### 0 / 0

### 0 / 0

### 0 / 0

### 0 / 0

### 0 / 0

### 0 / 0

### 0 / 0

### 0 / 0

### 0 / 0

### 0 / 0

### 0 / 0

### 0 / 0

### 0 / 0

### 0 / 0

### 0 / 0

### 0 / 0

### 0 / 0

### 0 / 0

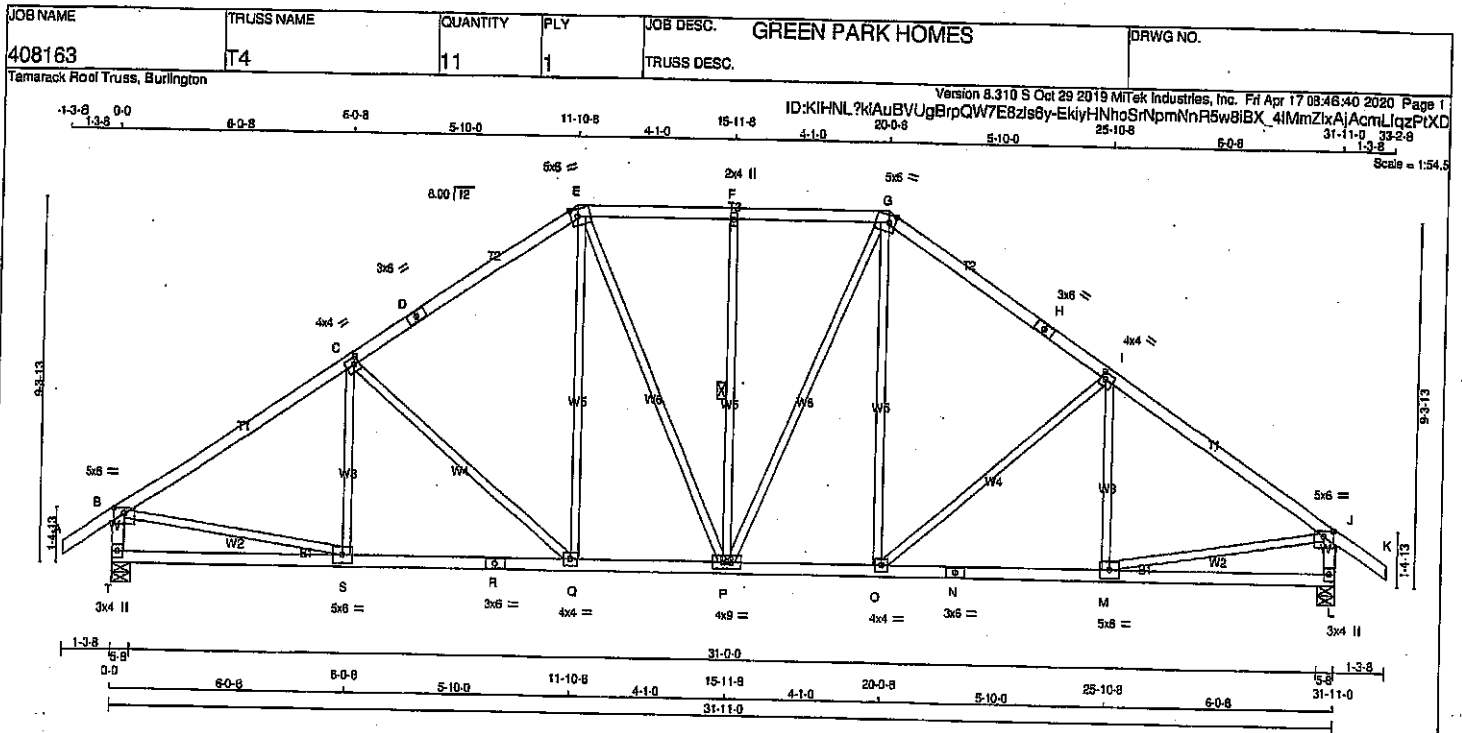
### 0 / 0

### 0 / 0

### 0 / 0

### 0 / 0

### 0 / 0



**LUMBER**

N. L. G. A. RULES

| CHORDS   | SIZE | LUMBER | DESCR. |
|----------|------|--------|--------|
| A - D    | 2x4  | DRY    | No.2   |
| E - G    | 2x4  | DRY    | No.2   |
| H - K    | 2x4  | DRY    | No.2   |
| L - J    | 2x4  | DRY    | No.2   |
| R - N    | 2x4  | DRY    | No.2   |
| S - 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  | TMWV-p  | MT20   | 5.0 | 6.0 | 1.75 | 3.00 |
| C  | TMWV-l  | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| D  | TS-l    | MT20   | 3.0 | 6.0 |      |      |
| E  | TMWV-m  | MT20   | 5.0 | 6.0 | 2.25 | 2.00 |
| F  | TMWV-w  | MT20   | 2.0 | 4.0 |      |      |
| G  | TMWV-m  | MT20   | 5.0 | 6.0 | 2.25 | 2.00 |
| H  | TS-l    | MT20   | 3.0 | 6.0 |      |      |
| I  | TMWV-l  | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| J  | TMWV-p  | MT20   | 5.0 | 6.0 | 1.75 | 3.00 |
| L  | BMV-l-p | MT20   | 3.0 | 4.0 |      |      |
| M  | BMWV-l  | MT20   | 5.0 | 6.0 |      |      |
| N  | BS-l    | MT20   | 3.0 | 6.0 |      |      |
| O  | BMWV-l  | MT20   | 4.0 | 4.0 |      |      |
| P  | BMWV-l  | MT20   | 4.0 | 4.0 |      |      |
| Q  | BMWV-l  | MT20   | 4.0 | 4.0 |      |      |
| R  | BS-l    | MT20   | 3.0 | 6.0 |      |      |
| S  | BMWV-l  | MT20   | 5.0 | 6.0 |      |      |
| T  | BMV-l-p | MT20   | 3.0 | 4.0 |      |      |

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

**BEARINGS**

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |        | INPUT BRG | RECORD BRG |
|----|-------------------------|------|---------------------------------|--------|-----------|------------|
|    | VERT                    | HORZ | DOWN                            | UPLIFT |           |            |
| T  | 1885                    | 0    | 1885                            | 0      | 5-8       | 5-8        |
| L  | 1885                    | 0    | 1885                            | 0      | 5-8       | 5-8        |

**UNFACTORED REACTIONS**

| JT | 1ST LOUSE |         | MAX/MIN. COMPONENT REACTIONS |            | WIND  | DEAD    | SOIL  |
|----|-----------|---------|------------------------------|------------|-------|---------|-------|
|    | COMBINED  | SNOW    | LIVE                         | PERM. LIVE |       |         |       |
| T  | 1331      | 887 / 0 | 0 / 0                        | 0 / 0      | 0 / 0 | 444 / 0 | 0 / 0 |
| L  | 1331      | 887 / 0 | 0 / 0                        | 0 / 0      | 0 / 0 | 444 / 0 | 0 / 0 |

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

**BRACING**

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.16 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.

1 LATERAL BRACE(S) AT 1/2 LENGTH OF F-P.

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 MAX (PLF) | LC2 MAX (PLF) |                      |       | MAX. FACTORED FORCE (LBS) | MAX. FACTORED FORCE (LBS) |
| FR-TO |                           |                  |               |               |                      | FR-TO |                           |                           |
| A-B   | 0 / 35                    | -91.8            | -91.8         | 0.12 (1)      | 10.00                | S-C   | -194 / 35                 | 0.09 (1)                  |
| B-C   | -2097 / 0                 | -91.8            | -91.8         | 0.53 (1)      | 4.16                 | C-Q   | -420 / 0                  | 0.53 (1)                  |
| C-D   | -1790 / 0                 | -91.8            | -91.8         | 0.48 (1)      | 4.48                 | Q-E   | 0 / 369                   | 0.08 (1)                  |
| D-E   | -1790 / 0                 | -91.8            | -91.8         | 0.48 (1)      | 4.48                 | E-P   | 0 / 280                   | 0.06 (1)                  |
| E-F   | -1578 / 0                 | -91.8            | -91.8         | 0.21 (1)      | 5.05                 | P-F   | -449 / 0                  | 0.26 (1)                  |
| F-G   | -1578 / 0                 | -91.8            | -91.8         | 0.21 (1)      | 5.05                 | G-G   | 0 / 280                   | 0.06 (1)                  |
| G-H   | -1790 / 0                 | -91.8            | -91.8         | 0.48 (1)      | 4.48                 | O-G   | 0 / 369                   | 0.08 (1)                  |
| H-I   | -1790 / 0                 | -91.8            | -91.8         | 0.48 (1)      | 4.48                 | O-I   | -420 / 0                  | 0.53 (1)                  |
| I-J   | -2097 / 0                 | -91.8            | -91.8         | 0.53 (1)      | 4.16                 | M-I   | -194 / 35                 | 0.09 (1)                  |
| J-K   | 0 / 35                    | -91.8            | -91.8         | 0.12 (1)      | 10.00                | B-S   | 0 / 1803                  | 0.41 (1)                  |
| T-B   | -1839 / 0                 | 0.0              | 0.0           | 0.19 (1)      | 6.18                 | M-J   | 0 / 1803                  | 0.41 (1)                  |
| L-J   | -1839 / 0                 | 0.0              | 0.0           | 0.19 (1)      | 6.18                 |       |                           |                           |
| T-S   | 0 / 0                     | -18.5            | -18.5         | 0.16 (4)      | 10.00                |       |                           |                           |
| S-R   | 0 / 1775                  | -18.5            | -18.5         | 0.36 (1)      | 10.00                |       |                           |                           |
| R-Q   | 0 / 1775                  | -18.5            | -18.5         | 0.36 (1)      | 10.00                |       |                           |                           |
| Q-P   | 0 / 1481                  | -18.5            | -18.5         | 0.29 (1)      | 10.00                |       |                           |                           |
| P-O   | 0 / 1481                  | -18.5            | -18.5         | 0.29 (1)      | 10.00                |       |                           |                           |
| O-N   | 0 / 1775                  | -18.5            | -18.5         | 0.36 (1)      | 10.00                |       |                           |                           |
| N-M   | 0 / 1775                  | -18.5            | -18.5         | 0.36 (1)      | 10.00                |       |                           |                           |
| M-L   | 0 / 0                     | -18.5            | -18.5         | 0.16 (4)      | 10.00                |       |                           |                           |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**

|            |            |
|------------|------------|
| TOP CH. LL | = 25.6 PSF |
| DL         | = 6.0 PSF  |
| BOT CH. LL | = 0.0 PSF  |
| DL         | = 7.4 PSF  |
| TOTAL LOAD | = 39.0 PSF |

SPACING = 24.0 IN./C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, OBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) =  $L/360$  (1.08")  
CALCULATED VERT. DEFL.(LL) =  $L/999$  (0.08")  
ALLOWABLE DEFL.(TL) =  $L/360$  (1.08")  
CALCULATED VERT. DEFL.(TL) =  $L/999$  (0.14")

CSI: TC=0.53/1.00 (B-C:1), BC=0.36/1.00 (C-S:1),

WB=0.52/1.00 (C-Q:1), SS=0.22/1.00 (B-C:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10

COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**

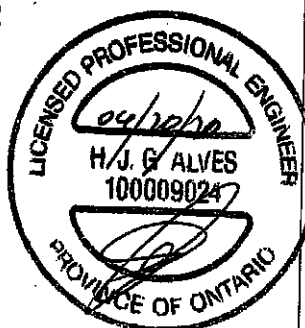
| PLATE GRIP(DRY) | SHEAR (PSI) | SECTION (PL) |
|-----------------|-------------|--------------|
| MT20            | 618         | 354          |
|                 | 1667        | 769          |
|                 | 1887        | 1656         |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

SI GRIP= 0.84 (B) (INPUT = 0.90)

SI METAL= 0.57 (N) (INPUT = 1.00)



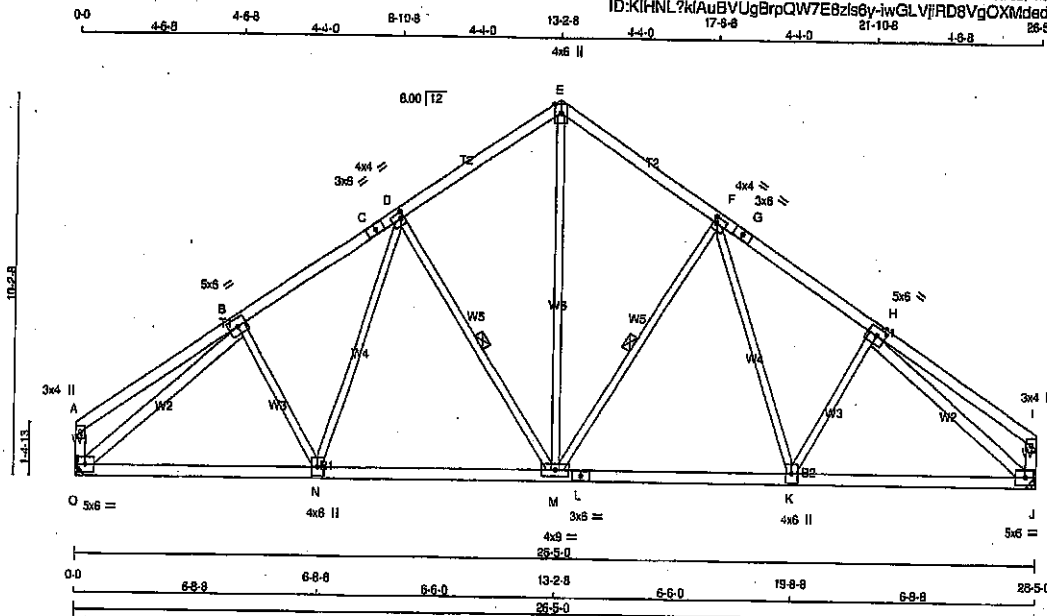
Structural component only  
DWG# T-2006472

|                                  |            |          |     |                  |          |
|----------------------------------|------------|----------|-----|------------------|----------|
| JOB NAME                         | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408163                           | T5         | 4        | 1   | GREEN PARK HOMES |          |
| Tamarack Rd of Truss, Burlington |            |          |     |                  |          |

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:46:41 2020 Page 1

ID:KIHNL?kAuBVUgBrpQW7E8zls6y-iwGLVfRD8VgOXMdedfjIWKht7T1KKtPGVvrGzP1XC

Scale = 1:57.2



#### LUMBER

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

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

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| A  | TMV+p  | MT20   | 3.0 | 4.0 |      |      |
| B  | TMWW-t | MT20   | 5.0 | 6.0 |      |      |
| C  | TS-t   | MT20   | 3.0 | 8.0 |      |      |
| D  | TMWW-t | MT20   | 4.0 | 4.0 | 2.00 | 1.00 |
| E  | TTW+p  | MT20   | 4.0 | 6.0 | Edge |      |
| F  | TMWW-t | MT20   | 4.0 | 4.0 | 2.00 | 1.00 |
| G  | TS-t   | MT20   | 3.0 | 8.0 |      |      |
| H  | TMWW-t | MT20   | 5.0 | 6.0 |      |      |
| I  | TMV+p  | MT20   | 3.0 | 4.0 |      |      |
| J  | BMVW-t | MT20   | 5.0 | 6.0 |      |      |
| K  | BMWW-t | MT20   | 4.0 | 8.0 |      |      |
| L  | BS-t   | MT20   | 3.0 | 8.0 |      |      |
| M  | BMVW-t | MT20   | 4.0 | 8.0 |      |      |
| N  | BMWW-t | MT20   | 4.0 | 8.0 |      |      |
| O  | BMVW-t | MT20   | 5.0 | 6.0 |      |      |

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

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

##### BEARINGS

|    | FACTORED       | MAXIMUM FACTORED | INPUT | REQD  |
|----|----------------|------------------|-------|-------|
|    | GROSS REACTION | GROSS REACTION   | BRG   | BRG   |
| JT | VERT           | DOWN             | UP    | IN-SX |
| O  | 1456           | 0                | 1456  | 0     |
| J  | 1456           | 0                | 1456  | 0     |

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

##### UNFACTORED REACTIONS

|    | 1ST CASE | MAX/MIN. COMPONENT REACTIONS |       |           |       |         |       |  |
|----|----------|------------------------------|-------|-----------|-------|---------|-------|--|
| JT | COMBINED | SNOW                         | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |  |
| O  | 1030     | 676 / 0                      | 0 / 0 | 0 / 0     | 0 / 0 | 354 / 0 | 0 / 0 |  |
| J  | 1030     | 676 / 0                      | 0 / 0 | 0 / 0     | 0 / 0 | 354 / 0 | 0 / 0 |  |

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.05 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF F-M, D-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) | MAX. FACTORED CS (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED CS (LC) |          |
| FR-TO  |                           | FROM TO                   |                       | FR-TO |                           |                       |          |
| A-B    | 0 / 21                    | -91.8                     | -91.8 0.23 (1)        | 10.00 | M-E                       | 0 / 985               | 0.22 (1) |
| B-C    | -1580 / 0                 | -91.8                     | -91.8 0.21 (1)        | 5.05  | M-F                       | -511 / 0              | 0.23 (1) |
| C-D    | -1580 / 0                 | -91.8                     | -91.8 0.21 (1)        | 5.05  | F-K                       | 0 / 226               | 0.05 (1) |
| D-E    | -1198 / 0                 | -91.8                     | -91.8 0.21 (1)        | 5.62  | K-H                       | -92 / 25              | 0.03 (1) |
| E-F    | -1198 / 0                 | -91.8                     | -91.8 0.21 (1)        | 5.62  | D-M                       | -511 / 0              | 0.23 (1) |
| F-G    | -1580 / 0                 | -91.8                     | -91.8 0.21 (1)        | 5.05  | N-D                       | 0 / 226               | 0.05 (1) |
| G-H    | -1580 / 0                 | -91.8                     | -91.8 0.21 (1)        | 5.05  | B-N                       | -92 / 25              | 0.03 (1) |
| H-I    | 0 / 21                    | -91.8                     | -91.8 0.23 (1)        | 10.00 | O-B                       | -1842 / 0             | 0.79 (1) |
| O-A    | -184 / 0                  | 0.0                       | 0.0 0.02 (1)          | 7.81  | H-J                       | -1842 / 0             | 0.79 (1) |
| J-I    | -184 / 0                  | 0.0                       | 0.0 0.02 (1)          | 7.81  |                           |                       |          |
| O-N    | 0 / 1361                  | -18.5                     | -18.5 0.32 (1)        | 10.00 |                           |                       |          |
| N-M    | 0 / 1248                  | -18.5                     | -18.5 0.30 (1)        | 10.00 |                           |                       |          |
| M-L    | 0 / 1248                  | -18.5                     | -18.5 0.30 (1)        | 10.00 |                           |                       |          |
| L-K    | 0 / 1248                  | -18.5                     | -18.5 0.30 (1)        | 10.00 |                           |                       |          |
| K-J    | 0 / 1361                  | -18.5                     | -18.5 0.32 (1)        | 10.00 |                           |                       |          |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |            |
|------------|------------|
| TOP CH. LL | = 25.6 PSF |
| DL         | = 6.0 PSF  |
| BOT CH. LL | = 0.0 PSF  |
| DL         | = 7.4 PSF  |
| TOTAL LOAD | = 39.0 PSF |

SPACING = 24.0 IN. O.C.

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 085-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL. (LL) =  $L/360$  (0.88")  
CALCULATED VERT. DEFL. (LL) =  $L/999$  (0.05")  
ALLOWABLE DEFL. (TL) =  $L/360$  (0.88")  
CALCULATED VERT. DEFL. (TL) =  $L/999$  (0.11")

CSI:  $TC=0.23/1.00$  (H-I),  $BC=0.32/1.00$  (J-K),  $WB=0.79/1.00$  (H-J),  $SSI=0.16/1.00$  (H-I)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HELLS OFF

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

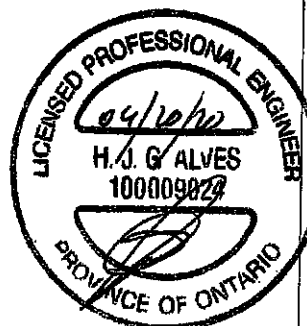
##### NAIL VALUES

| PLATE | GRIP(DRY) | SHEAR | SECTION |
|-------|-----------|-------|---------|
| (PSI) | (PLI)     | (PLI) | (PLI)   |
| MAX   | MIN       | MAX   | MIN     |
| MT20  | 618       | 364   | 1667    |

PLATE PLACEMENT TOL. = 0.250 inches

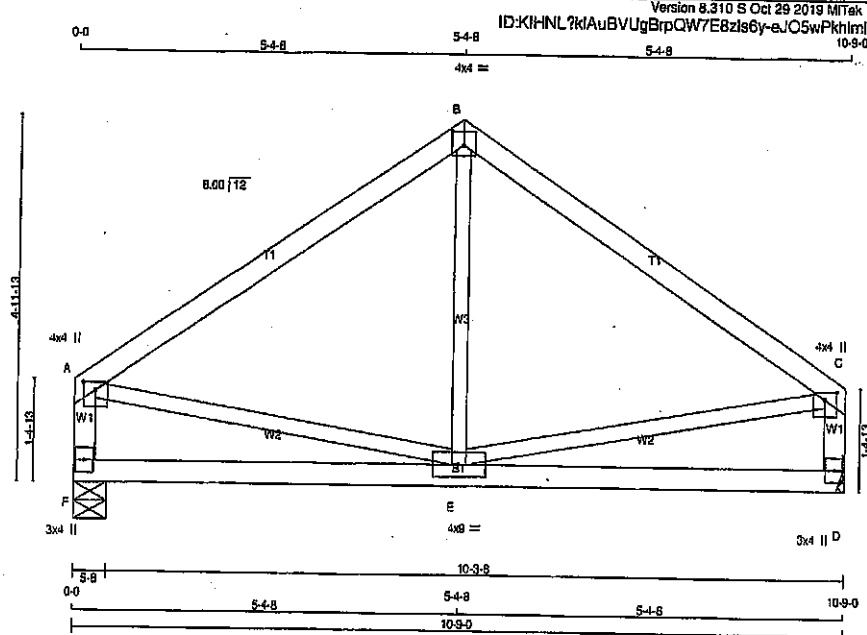
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (M) (INPUT = 0.90)  
JSI METAL= 0.46 (H) (INPUT = 1.00)



Structural component only  
DWG# T-2006473

|                                 |            |             |     |                                                                                    |          |
|---------------------------------|------------|-------------|-----|------------------------------------------------------------------------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY    | PLY | JOB DESC.                                                                          | DRWG NO. |
| 408163                          | T6         | 2           | 1   | GREEN PARK HOMES                                                                   |          |
| Tamarack Roof Truss, Burlington |            | TRUSS DESC. |     | Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:46:43 2020 Page 1 |          |



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

| PLATES (table is in inches) | JT   | TYPE | PLATES | W    | LEN  | Y | X |
|-----------------------------|------|------|--------|------|------|---|---|
| A - B                       | MT20 | 4.0  | 4.0    | 1.25 | 2.00 |   |   |
| B - C                       | MT20 | 4.0  | 4.0    | 2.25 | 2.00 |   |   |
| F - A                       | MT20 | 4.0  | 4.0    | 1.25 | 2.00 |   |   |
| D - C                       | MT20 | 3.0  | 4.0    |      |      |   |   |
| F - D                       | MT20 | 4.0  | 4.0    | 9.0  |      |   |   |
|                             | MT20 | 3.0  | 4.0    |      |      |   |   |

| DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER |                  |       |      |      |        |            |       |
|-----------------------------------------------------------------------------------------------|------------------|-------|------|------|--------|------------|-------|
| BEARINGS                                                                                      |                  |       |      |      |        |            |       |
| FACTORED                                                                                      | MAXIMUM FACTORED | INPUT | REQD |      |        |            |       |
| GROSS REACTION                                                                                | GROSS REACTION   | BRG   | BRG  |      |        |            |       |
| JT                                                                                            | VERT             | HORZ  | DOWN | HORZ | UPLIFT | IN-SX      | IN-SX |
| F                                                                                             | 593              | 0     | 593  | 0    | 0      | 5-8        | 5-8   |
| D                                                                                             | 593              | 0     | 593  | 0    | 0      | MECHANICAL |       |

| UNFACTORED REACTIONS |                              |         |       |            |       |         |       |
|----------------------|------------------------------|---------|-------|------------|-------|---------|-------|
| 1ST LCASE            | MAX/MIN. COMPONENT REACTIONS |         |       |            |       |         |       |
| JT                   | COMBINED                     | SNOW    | LIVE  | PERM. LIVE | WIND  | DEAD    | SOIL  |
| F                    | 419                          | 275 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 144 / 0 | 0 / 0 |
| D                    | 419                          | 275 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 144 / 0 | 0 / 0 |

| ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED. |               |          |            |          |       |               |          |          |  |
|----------------------------------------------------------------------------|---------------|----------|------------|----------|-------|---------------|----------|----------|--|
| LOADING                                                                    |               |          |            |          |       |               |          |          |  |
| TOTAL LOAD CASES: (4)                                                      |               |          |            |          |       |               |          |          |  |
| CHORDS                                                                     |               |          |            |          | WEBS  |               |          |          |  |
| MEMB.                                                                      | MAX. FACTORED | FACTORED | VERT. LOAD | LC1 MAX  | MEMB. | MAX. FACTORED | FACTORED |          |  |
|                                                                            | FORCE         | (PLF)    | CS1 (LC)   | CS1 (LC) |       | FORCE         | CS1 (LC) |          |  |
| FR-TO                                                                      | (LBS)         | FROM TO  |            |          | FR-TO |               |          |          |  |
| A-B                                                                        | -428 / 0      | -91.8    | -91.8      | 0.34 (1) | 6.25  | E-B           | -20 / 85 | 0.03 (4) |  |
| B-C                                                                        | -428 / 0      | -91.8    | -91.8      | 0.34 (1) | 6.25  | A-E           | 0 / 352  | 0.08 (1) |  |
| F-A                                                                        | -554 / 0      | 0.0      | 0.0        | 0.08 (1) | 7.81  | E-C           | 0 / 362  | 0.08 (1) |  |
| D-C                                                                        | -554 / 0      | 0.0      | 0.0        | 0.08 (1) | 7.81  |               |          |          |  |
| F-E                                                                        | 0 / 0         | -18.5    | -18.5      | 0.15 (4) | 10.00 |               |          |          |  |
| E-D                                                                        | 0 / 0         | -18.5    | -18.5      | 0.15 (4) | 10.00 |               |          |          |  |

| DESIGN CRITERIA        |               |
|------------------------|---------------|
| SPECIFIED LOADS:       |               |
| TOP CH.                | LL = 25.6 PSF |
|                        | DL = 6.0 PSF  |
| BOT CH.                | LL = 0.0 PSF  |
|                        | DL = 7.4 PSF  |
| TOTAL LOAD             | = 39.0 PSF    |
| SPACING = 24.0 IN. C/C |               |

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL. (LL) = L/360 (0.36")

CALCULATED VERT. DEFL. (LL) = L/999 (0.01")

ALLOWABLE DEFL. (TL) = L/360 (0.36")

CALCULATED VERT. DEFL. (TL) = L/999 (0.02")

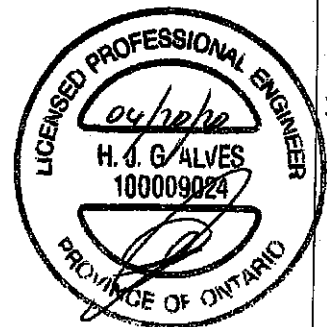
CSI: TC=0.34/1.00 (B-C:1), BC=0.15/1.00 (D-E:4), WB=0.08/1.00 (C-E:1), SS=0.18/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

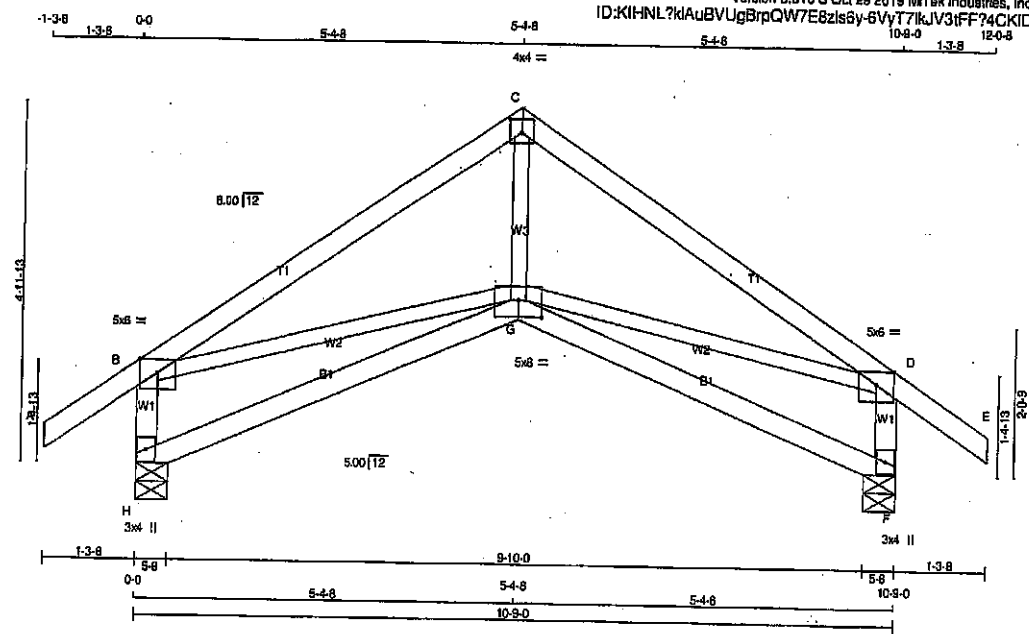
| NAIL VALUES                         |         |         |                    |
|-------------------------------------|---------|---------|--------------------|
| PLATE GRIP (DRY)                    | SHEAR   | SECTION |                    |
| (PSI)                               | (PL)    | (PL)    |                    |
| MAX MIN                             | MAX MIN | MAX MIN |                    |
| MT20                                | 618     | 354     | 1567 788 1987 1656 |
| PLATE PLACEMENT TOL. = 0.250 inches |         |         |                    |
| PLATE ROTATION TOL. = 5.0 Deg.      |         |         |                    |
| JSI GRIP = 0.45 (C) (INPUT = 0.90)  |         |         |                    |
| JSI METAL = 0.13 (C) (INPUT = 1.00) |         |         |                    |



Structural component only  
DWG# T-2006474

|                                 |                          |                      |                 |                                      |          |
|---------------------------------|--------------------------|----------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>408163</b>       | TRUSS NAME<br><b>17S</b> | QUANTITY<br><b>2</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREEN PARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 | TRUSS DESC.                          |          |

Version 8.310 S Oct 29 2019 MTek Industries, Inc. Fri Apr 17 08:46:44 2020 Page 1  
 ID:KIHNL7kIAuBVUgBrpQW7E8zls6y-6VvT7kV3tFF74CKIDeLN8p4z8IErFJ5DkZRpzPIX9  
 10-8-0 12-0-8  
 Scale = 1:25.5



**LUMBER**

N. L. G. A. RULES

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

EXCEPT

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT TYPE | PLATES | W    | LEN | Y   | X         |
|---------|--------|------|-----|-----|-----------|
| B       | TMVW-p | MT20 | 5.0 | 8.0 | Edge      |
| C       | TTW-p  | MT20 | 4.0 | 4.0 | 2.25 2.00 |
| D       | TMVW-p | MT20 | 5.0 | 8.0 | Edge      |
| F       | BMV1-p | MT20 | 3.0 | 4.0 |           |
| G       | BBWW-p | MT20 | 5.0 | 8.0 | 2.75 4.00 |
| H       | BMV1-p | MT20 | 3.0 | 4.0 |           |

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

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

**BEARINGS**

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |        | INPUT BRG IN-SX | RECORD BRG IN-SX |
|----|-------------------------|------|---------------------------------|--------|-----------------|------------------|
|    | VERT                    | HORZ | DOWN                            | UPLIFT |                 |                  |
| H  | 719                     | 0    | 719                             | 0      | 5-8             | 5-8              |
| F  | 719                     | 0    | 719                             | 0      | 5-8             | 5-8              |

**UNFACTORED REACTIONS**

| JT | 1ST CASE |         | MAX/MIN COMPONENT REACTIONS |           |       |         |       |
|----|----------|---------|-----------------------------|-----------|-------|---------|-------|
|    | COMBINED | SNOW    | LIVE                        | PERM.LIVE | WIND  | DEAD    | SOIL  |
| H  | 505      | 345 / 0 | 0 / 0                       | 0 / 0     | 0 / 0 | 161 / 0 | 0 / 0 |
| F  | 505      | 345 / 0 | 0 / 0                       | 0 / 0     | 0 / 0 | 161 / 0 | 0 / 0 |

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

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

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

| LOADING               |                           |                           |       |               |                      |       |                           |               |  |
|-----------------------|---------------------------|---------------------------|-------|---------------|----------------------|-------|---------------------------|---------------|--|
| TOTAL LOAD CASES: (4) |                           |                           |       |               |                      |       |                           |               |  |
| CHORDS                |                           |                           |       |               | 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 / 35                    | -91.8                     | -91.8 | 0.12 (1)      | 10.00                | G-C   | 0 / 323                   | 0.07 (1)      |  |
| B-C                   | -735 / 0                  | -91.8                     | -91.8 | 0.35 (1)      | 6.25                 | B-G   | 0 / 622                   | 0.14 (1)      |  |
| C-D                   | -735 / 0                  | -91.8                     | -91.8 | 0.35 (1)      | 6.25                 | G-D   | 0 / 622                   | 0.14 (1)      |  |
| D-E                   | 0 / 35                    | -91.8                     | -91.8 | 0.12 (1)      | 10.00                |       |                           |               |  |
| H-B                   | -669 / 0                  | 0.0                       | 0.0   | 0.07 (1)      | 7.81                 |       |                           |               |  |
| F-D                   | -669 / 0                  | 0.0                       | 0.0   | 0.07 (1)      | 7.81                 |       |                           |               |  |
| H-G                   | 0 / 0                     | -18.5                     | -18.5 | 0.16 (4)      | 10.00                |       |                           |               |  |
| G-F                   | 0 / 0                     | -18.5                     | -18.5 | 0.16 (4)      | 10.00                |       |                           |               |  |

TOTAL WEIGHT = 2 X 45 = 90 lb

**DESIGN CRITERIA**

SPECIFIED LOADS:

|            |            |
|------------|------------|
| TOP CH. LL | = 25.6 PSF |
| DL         | = 6.0 PSF  |
| BOT CH. LL | = 0.0 PSF  |
| DL         | = 7.4 PSF  |
| TOTAL LOAD | = 39.0 PSF |

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 089-09, CSA 088-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (0.36")  
 CALCULATED VERT. DEFL.(LL) = L/999 (0.02")  
 ALLOWABLE DEFL.(TL) = L/360 (0.36")  
 CALCULATED VERT. DEFL.(TL) = L/999 (0.06")

CSI: TC=0.35/1.00 (B-C:1), BC=0.16/1.00 (G-H:4),  
 WB=0.14/1.00 (B-G:1), SS=0.16/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**

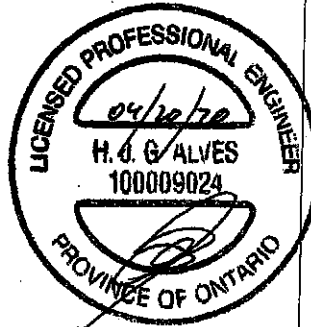
| PLATE GRIP(DRY) | SHEAR (PSI) | SECTION (PL)           |
|-----------------|-------------|------------------------|
| MT20            | 618         | 354 1667 788 1987 1656 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.54 (C) (INPUT = 0.90)

JSI METAL= 0.17 (D) (INPUT = 1.00)

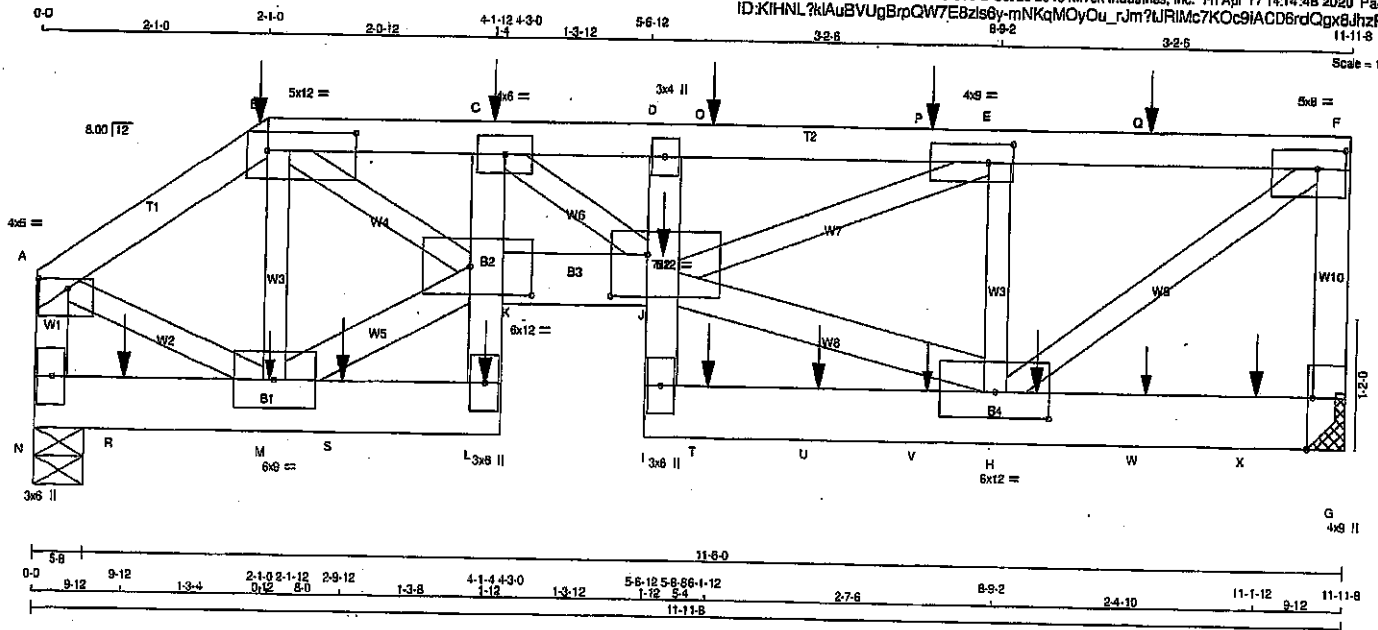


Structural component only  
 DWG# T-2006475

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 408163   | T8         | 1        | 2   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 14:14:48 2020 Page 1  
ID:KIHNL?kIAuBVUGBrpQW7E8zls6y-mNKqMoYDu\_rJm?URIMc7KOC9IACD8rdCqX8JhzPojb  
11-11-8  
Scale = 1:19.0



#### LUMBER

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

DRY: SEASONED LUMBER.

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

| CHORDS #ROWS                         | SURFACE SPACING (IN) | LOAD(PLF)  |
|--------------------------------------|----------------------|------------|
| TOP CHORDS: (0.122"x3") SPIRAL NAILS |                      |            |
| A-B                                  | 12                   | SIDE(61.0) |
| B-F                                  | 12                   | SIDE(61.0) |
| F-G                                  | 12                   | TOP        |
| N-A                                  | 12                   | TOP        |

| BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS | SIZE(0.0) | SIZE(61.0) | SIZE(183.1) | SIZE(29.4) | SIZE(316.3) | SIZE(192.0) |
|-----------------------------------------|-----------|------------|-------------|------------|-------------|-------------|
| N-L                                     | 2         | 12         |             |            |             |             |
| K-J                                     | 2         | 12         |             |            |             |             |
| I-G                                     | 2         | 12         |             |            |             |             |
| L-C                                     | 1         | 12         |             |            |             |             |
| C-I                                     | 1         | 3          |             |            |             |             |

| WEBS (0.122"x3") SPIRAL NAILS | SIZE(0.0) | SIZE(61.0) | SIZE(183.1) | SIZE(29.4) | SIZE(316.3) | SIZE(192.0) |
|-------------------------------|-----------|------------|-------------|------------|-------------|-------------|
| E-H                           | 1         | 4          |             |            |             |             |
| 2x3                           | 1         | 6          |             |            |             |             |
| 2x4                           | 1         | 8          |             |            |             |             |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

#### PLATES (table is in inches)

| JT TYPE   | PLATES | W   | LEN  | Y    | X    |
|-----------|--------|-----|------|------|------|
| A TMWV-p  | MT20   | 4.0 | 5.0  | 1.00 | 3.25 |
| B TTWV-I  | MT20   | 5.0 | 12.0 | 2.00 | 9.75 |
| C TMWV-I  | MT20   | 4.0 | 6.0  |      |      |
| D TMWV-p  | MT20   | 3.0 | 4.0  |      |      |
| E TMWV-I  | MT20   | 4.0 | 9.0  | 2.00 | 2.75 |
| F TMWV-I  | MT20   | 5.0 | 8.0  | 2.00 | 3.00 |
| G BMV1-I  | MT20   | 4.0 | 9.0  | Edge | 0.50 |
| H BMWVW-I | MT20   | 6.0 | 12.0 | 2.75 | 6.00 |
| I BMV1-p  | MT20   | 3.0 | 6.0  |      |      |
| J BMWVW-I | MT20   | 7.0 | 12.0 | 4.50 | 4.00 |
| K BMWVW-I | MT20   | 6.0 | 12.0 | 3.00 | 6.75 |
| L BMV1-p  | MT20   | 3.0 | 6.0  |      |      |
| M BMWVW-I | MT20   | 6.0 | 9.0  |      |      |
| N BMV1-p  | MT20   | 3.0 | 6.0  |      |      |

#### 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   |                         |                                 |           |          |
| UPLIFT |                         |                                 |           |          |
| G      | 5030                    | 0                               | 5030      | 0        |
| N      | 4034                    | 0                               | 4034      | 0        |

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

##### UNFACTORED REACTIONS

| JT       | 1ST LCASE | MAX/MIN. COMPONENT REACTIONS | PERM. LIVE | WIND  | DEAD     | SOIL  |
|----------|-----------|------------------------------|------------|-------|----------|-------|
| COMBINED |           |                              |            |       |          |       |
| SNOW     |           |                              |            |       |          |       |
| LIVE     |           |                              |            |       |          |       |
| N        | 3552      | 2359 / 0                     | 0 / 0      | 0 / 0 | 1193 / 0 | 0 / 0 |
| N        | 2846      | 1909 / 0                     | 0 / 0      | 0 / 0 | 936 / 0  | 0 / 0 |

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

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.25 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.

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

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MEMB.      | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (LC1 MAX) | MAX. FACTORED VERT. LOAD (LC1 MAX) | W E B S | MEMB.     | MAX. FACTORED FORCE (LBS) | MAX. FACTORED VERT. LOAD (LC1 MAX) |
|--------|------------|---------------------------|---------------------------|------------------------------------|------------------------------------|---------|-----------|---------------------------|------------------------------------|
| FR-TO  |            |                           |                           |                                    |                                    | FR-TO   |           |                           |                                    |
| A-B    | -3843 / 0  | -91.8                     | -91.8                     | 0.08 (1)                           | 4.77                               | M-B     | -2179 / 0 | 0.19 (1)                  |                                    |
| B-C    | -9543 / 0  | -91.8                     | -91.8                     | 0.40 (1)                           | 2.87                               | C-J     | 0 / 2246  | 0.28 (1)                  |                                    |
| C-D    | -11672 / 0 | -91.8                     | -91.8                     | 0.82 (1)                           | 2.25                               | H-E     | -2889 / 0 | 0.25 (1)                  |                                    |
| D-O    | -11175 / 0 | -91.8                     | -91.8                     | 0.83 (1)                           | 2.38                               | H-F     | 0 / 6454  | 0.80 (1)                  |                                    |
| O-P    | -11175 / 0 | -91.8                     | -91.8                     | 0.83 (1)                           | 2.38                               | A-M     | 0 / 3502  | 0.43 (1)                  |                                    |
| P-Q    | -11175 / 0 | -91.8                     | -91.8                     | 0.83 (1)                           | 2.38                               | M-K     | 0 / 3191  | 0.28 (1)                  |                                    |
| Q-F    | -5097 / 0  | -91.8                     | -91.8                     | 0.16 (1)                           | 4.16                               | B-K     | 0 / 7537  | 0.93 (1)                  |                                    |
| F-G    | -5097 / 0  | -91.8                     | -91.8                     | 0.16 (1)                           | 4.16                               | J-H     | 0 / 4983  | 0.44 (1)                  |                                    |
| G-F    | -4076 / 0  | 0.0                       | 0.0                       | 0.29 (1)                           | 5.87                               | J-E     | 0 / 6452  | 0.80 (1)                  |                                    |
| N-A    | -3695 / 0  | 0.0                       | 0.0                       | 0.21 (1)                           | 5.12                               |         |           |                           |                                    |

| N-R | 0 / 0     | -18.5 | -18.5 | 0.10 (1) | 10.00 |
|-----|-----------|-------|-------|----------|-------|
| R-M | 0 / 0     | -18.5 | -18.5 | 0.10 (1) | 10.00 |
| M-S | 0 / 374   | -18.5 | -18.5 | 0.12 (1) | 10.00 |
| S-L | 0 / 374   | -18.5 | -18.5 | 0.12 (1) | 10.00 |
| L-K | 0 / 657   | -18.5 | -18.5 | 0.12 (1) | 10.00 |
| K-C | -1494 / 0 | 0.0   | 0.0   | 0.39 (1) | 10.00 |
| C-K | 0 / 8900  | -18.5 | -18.5 | 0.85 (1) | 10.00 |
| K-J | 0 / 677   | 0.0   | 0.0   | 0.52 (1) | 10.00 |
| J-D | -22 / 24  | 0.0   | 0.0   | 0.46 (1) | 7.81  |
| I-T | 0 / 532   | -18.5 | -18.5 | 0.38 (1) | 10.00 |
| T-U | 0 / 532   | -18.5 | -18.5 | 0.38 (1) | 10.00 |
| U-V | 0 / 532   | -18.5 | -18.5 | 0.38 (1) | 10.00 |
| V-H | 0 / 532   | -18.5 | -18.5 | 0.38 (1) | 10.00 |
| H-W | 0 / 0     | -18.5 | -18.5 | 0.28 (1) | 10.00 |
| W-X | 0 / 0     | -18.5 | -18.5 | 0.28 (1) | 10.00 |
| X-G | 0 / 0     | -18.5 | -18.5 | 0.28 (1) | 10.00 |

##### FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.   | LC1   | MAX-  | MAX+ | FACE  | DIR. | TOTAL | HEEL | CONN. |
|----|--------|-------|-------|------|-------|------|-------|------|-------|
| B  | 2-1-0  | -94   | -94   |      | BACK  | VERT |       |      | C1    |
| C  | 4-1-12 | -4    | -4    |      | BACK  | VERT |       |      | C1    |
| H  | 9-1-12 | -1438 | -1438 |      | FRONT | VERT |       |      | C1    |
| J  | 5-8-8  | -1446 | -1446 |      | FRONT | VERT |       |      | C1    |
| L  | 4-1-4  | -581  | -581  |      | FRONT | VERT |       |      | C1    |
| L  | 4-1-4  | -10   | -10   |      | BACK  | VERT |       |      | C1    |
| M  | 2-1-12 | -1    | -1    |      | BACK  | VERT |       |      | C1    |
| O  | 6-1-12 | -4    | -4    |      | BACK  | VERT |       |      | C1    |
| P  | 8-1-12 | -4    | -4    |      | BACK  | VERT |       |      | C1    |

TOTAL WEIGHT = 2 X 62 = 125 lb

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |            |
|------------|------------|
| TOP CH. LL | = 25.6 PSF |
| DL         | = 6.0 PSF  |
| BOT CH. LL | = 0.0 PSF  |
| DL         | = 7.4 PSF  |
| TOTAL LOAD | = 39.0 PSF |

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCC 2010, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-08, CSA 088-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.40")  
CALCULATED VERT. DEFL.(LL) = L/899 (0.14")  
ALLOWABLE DEFL.(TL) = L/360 (0.40")  
CALCULATED VERT. DEFL.(TL) = L/558 (0.28")

CSL: TC=0.63/1.00 (D-E-1), BC=0.65/1.00 (J-K-1),  
WB=0.93/1.00 (B-K-1), SS=0.32/1.00 (G-H-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

##### NAIL VALUES

| PLATE GRIP(DRY) | SHEAR (PSI) | SECTION (PLI)          |
|-----------------|-------------|------------------------|
| MT20            | 618         | 354 1867 788 1987 1656 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

JSI METAL= 0.73 (K) (INPUT = 1.00)

Structural component only 1/2  
DWG# T-2006476

CONTINUED ON PAGE 2

|          |            |          |     |                  |          |
|----------|------------|----------|-----|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408163   | T8         | 1        | 2   | GREEN PARK HOMES |          |

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 14:14:48 2020 Page 2  
ID:KIHNL7kIAuBVUqBrQW7E8Zis8v-mNKoMqOou rJm?JRIrMc7KOC9IACD8rdQqx8JhzPoib

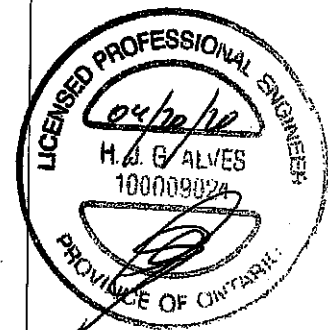
Edge - INDICATES REFERENCE CORNER OF PLATE  
TOUCHES EDGE OF CHORD.

# FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.    | LC1   | MAX-  | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|---------|-------|-------|------|-------|------|-------|------|-------|
| Q  | 10-1-12 | -4    | -4    | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| R  | 9-12    | -702  | -702  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| S  | 2-9-12  | -574  | -574  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| T  | 6-1-12  | -6    | -6    | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| U  | 7-1-12  | -1438 | -1438 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| V  | 8-1-12  | -1    | -1    | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| W  | 10-1-12 | -1    | -1    | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| X  | 11-1-12 | -1439 | -1439 | ---  | FRONT | VERT | TOTAL | ---  | C1    |

## CONNECTION REQUIREMENTS

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

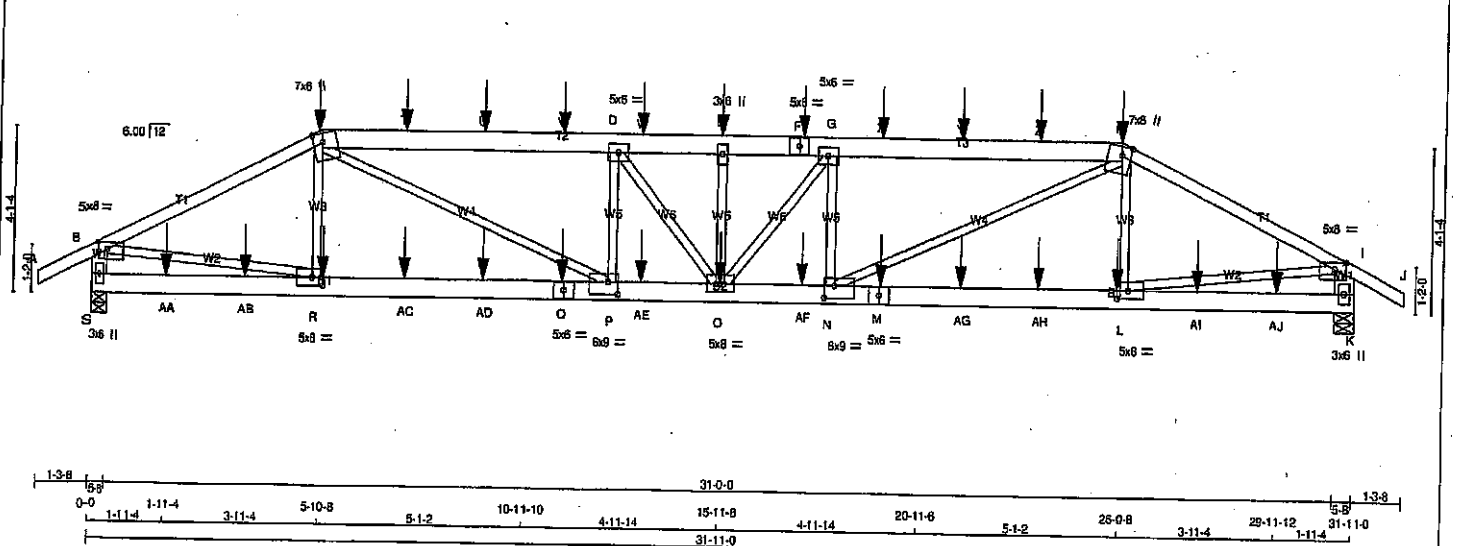


Structural component only  
DWG# T-2006476

22

|                                |            |          |     |                  |          |
|--------------------------------|------------|----------|-----|------------------|----------|
| JOB NAME                       | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408165                         | T21        | 1        | 2   | GREEN PARK HOMES |          |
| Tamarack Rod Truss, Burlington |            |          |     | TRUSS DESC.      |          |

Version 8.310 S Oct 29 2019 MITek Industries, Inc. Fri Apr 17 08:44:20 2020 Page 1  
ID:Ovhty48Q0cPQc\_Y353NoTWzicKo-KoF1v7?Qqkh\_s4XuWdW0BAKwy8Vdn7\_qxOxzPzP  
31-11-0 33-28 1-3-8  
Scale = 1:32.6



| LUMBER            |      |        |        |
|-------------------|------|--------|--------|
| N. L. G. A. RULES |      |        |        |
| CHORDS            | SIZE | LUMBER | DESCR. |
| A - C             | 2x4  | DRY    | No.2   |
| C - F             | 2x6  | DRY    | No.2   |
| F - H             | 2x4  | DRY    | No.2   |
| H - J             | 2x6  | DRY    | No.2   |
| S - B             | 2x6  | DRY    | No.2   |
| K - I             | 2x6  | DRY    | No.2   |
| S - Q             | 2x6  | DRY    | No.2   |
| Q - M             | 2x8  | DRY    | No.2   |
| M - K             | 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)  |
| H-J                                     | 12                   | SIDE (61.0)  |
| C-F                                     | 2                    | SIDE (183.1) |
| F-H                                     | 2                    | SIDE (61.0)  |
| S-B                                     | 2                    | TOP          |
| K-I                                     | 2                    | TOP          |
| BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS |                      |              |
| S-Q                                     | 2                    | SIDE (183.1) |
| Q-M                                     | 2                    | SIDE (183.1) |
| M-K                                     | 2                    | SIDE (183.1) |
| WEBS: (0.122"x3") SPIRAL NAILS          |                      |              |
| 2x3                                     | 6                    |              |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

| PLATES (table in inches) |        |     |     |
|--------------------------|--------|-----|-----|
| TYPE                     | PLATES | W   | LEN |
| TMWW-p                   | MT20   | 5.0 | 8.0 |
| TTWW-m                   | MT20   | 7.0 | 8.0 |
| TMWW-i                   | MT20   | 5.0 | 8.0 |
| TMWW-w                   | MT20   | 3.0 | 6.0 |
| TS-t                     | MT20   | 5.0 | 8.0 |
| TMWW-i                   | MT20   | 5.0 | 8.0 |
| TTWW-m                   | MT20   | 7.0 | 8.0 |
| TMWW-p                   | MT20   | 5.0 | 8.0 |
| BMV1-p                   | MT20   | 3.0 | 6.0 |
| BMWW-i                   | MT20   | 5.0 | 8.0 |
| BS-t                     | MT20   | 5.0 | 8.0 |
| BMWW-i                   | MT20   | 6.0 | 9.0 |
| BMWW-w                   | MT20   | 5.0 | 8.0 |
| BMWW-i                   | MT20   | 6.0 | 9.0 |
| BS-t                     | MT20   | 5.0 | 8.0 |
| BMWW-i                   | MT20   | 5.0 | 8.0 |
| BMV1-p                   | MT20   | 3.0 | 6.0 |

| DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER |             |                                 |               |                      |        |             |               |          |       |
|-----------------------------------------------------------------------------------------------|-------------|---------------------------------|---------------|----------------------|--------|-------------|---------------|----------|-------|
| BEARINGS                                                                                      |             |                                 |               |                      |        |             |               |          |       |
| FACTORED GROSS REACTION                                                                       |             | MAXIMUM FACTORED GROSS REACTION |               | INPUT BRG            |        | REQ'D BRG   |               |          |       |
| JT                                                                                            | VERT        | HORZ                            | DOWN          | HORZ                 | UPLIFT | IN-SX       | IN-SX         |          |       |
| S                                                                                             | 3035        | 0                               | 3035          | 0                    | 0      | 5-8         | 5-8           |          |       |
| K                                                                                             | 3034        | 0                               | 3034          | 0                    | 0      | 5-8         | 5-8           |          |       |
| UNFACTORED REACTIONS                                                                          |             |                                 |               |                      |        |             |               |          |       |
| 1ST LCASE                                                                                     |             | MAX. MIN. COMPONENT REACTIONS   |               |                      |        |             |               |          |       |
| JT                                                                                            | COMBINED    | SNOW                            | LIVE          | PERM. LIVE           | WIND   | DEAD        | SOIL          |          |       |
| S                                                                                             | 2146        | 1410 / 0                        | 0 / 0         | 0 / 0                | 0 / 0  | 736 / 0     | 0 / 0         |          |       |
| K                                                                                             | 2145        | 1409 / 0                        | 0 / 0         | 0 / 0                | 0 / 0  | 738 / 0     | 0 / 0         |          |       |
| BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) S, K                                    |             |                                 |               |                      |        |             |               |          |       |
| BRACING                                                                                       |             |                                 |               |                      |        |             |               |          |       |
| TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.07 FT.                                    |             |                                 |               |                      |        |             |               |          |       |
| MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.               |             |                                 |               |                      |        |             |               |          |       |
| ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.                    |             |                                 |               |                      |        |             |               |          |       |
| LOADING                                                                                       |             |                                 |               |                      |        |             |               |          |       |
| TOTAL LOAD CASES: (4)                                                                         |             |                                 |               |                      |        |             |               |          |       |
| CHORDS                                                                                        |             | FACTORED                        |               | WEBS                 |        | FACTORED    |               |          |       |
| MEMB.                                                                                         | FORCE (LBS) | VERT. LOAD (LBS)                | MAX. CSI (LC) | MAX. UNBRACED LENGTH | MEMB.  | FORCE (LBS) | MAX. CSI (LC) |          |       |
| FR-TO                                                                                         |             | FROM TO                         |               |                      | FR-TO  |             |               |          |       |
| A-B                                                                                           | 0 / 28      | -91.8                           | -91.8         | 0.07 (1)             | 10.00  | R-C         | -311 / 77     | 0.04 (1) |       |
| B-C                                                                                           | -4572 / 0   | -91.8                           | -91.8         | 0.43 (1)             | 4.07   | C-P         | 0 / 2765      | 0.34 (1) |       |
| C-T                                                                                           | -6582 / 0   | -91.8                           | -91.8         | 0.36 (1)             | 4.33   | P-D         | -1050 / 0     | 0.13 (1) |       |
| T-U                                                                                           | -6582 / 0   | -91.8                           | -91.8         | 0.36 (1)             | 4.33   | D-O         | -109 / 0      | 0.02 (1) |       |
| U-V                                                                                           | -6582 / 0   | -91.8                           | -91.8         | 0.33 (1)             | 4.33   | O-E         | 0 / 191       | 0.02 (1) |       |
| V-D                                                                                           | -6582 / 0   | -91.8                           | -91.8         | 0.36 (1)             | 4.33   | E-G         | -105 / 0      | 0.02 (1) |       |
| D-W                                                                                           | -6516 / 0   | -91.8                           | -91.8         | 0.29 (1)             | 4.40   | N-G         | -1059 / 0     | 0.13 (1) |       |
| W-E                                                                                           | -6516 / 0   | -91.8                           | -91.8         | 0.29 (1)             | 4.40   | H-H         | 0 / 2763      | 0.34 (1) |       |
| E-F                                                                                           | -6516 / 0   | -91.8                           | -91.8         | 0.29 (1)             | 4.40   | L-H         | -311 / 77     | 0.04 (1) |       |
| F-G                                                                                           | -6516 / 0   | -91.8                           | -91.8         | 0.29 (1)             | 4.40   | B-R         | 0 / 4138      | 0.51 (1) |       |
| G-X                                                                                           | -6580 / 0   | -91.8                           | -91.8         | 0.36 (1)             | 4.33   | L-I         | 0 / 4137      | 0.51 (1) |       |
| X-Y                                                                                           | -6580 / 0   | -91.8                           | -91.8         | 0.38 (1)             | 4.33   |             |               |          |       |
| Y-Z                                                                                           | -6580 / 0   | -91.8                           | -91.8         | 0.38 (1)             | 4.33   |             |               |          |       |
| Z-H                                                                                           | -6580 / 0   | -91.8                           | -91.8         | 0.38 (1)             | 4.33   |             |               |          |       |
| H-I                                                                                           | -4574 / 0   | -91.8                           | -91.8         | 0.48 (1)             | 4.07   |             |               |          |       |
| I-J                                                                                           | 0 / 28      | -91.8                           | -91.8         | 0.07 (1)             | 10.00  |             |               |          |       |
| S-B                                                                                           | -2972 / 0   | 0.0                             | 0.0           | 0.10 (1)             | 7.81   |             |               |          |       |
| K-I                                                                                           | -2971 / 0   | 0.0                             | 0.0           | 0.10 (1)             | 7.81   |             |               |          |       |
| S-AA                                                                                          | 0 / 0       | -18.5                           | -18.5         | 0.08 (4)             | 10.00  |             |               |          |       |
| AA-AB                                                                                         | 0 / 0       | -18.5                           | -18.5         | 0.08 (4)             | 10.00  |             |               |          |       |
| AB-R                                                                                          | 0 / 0       | -18.5                           | -18.5         | 0.08 (4)             | 10.00  |             |               |          |       |
| R-AC                                                                                          | 0 / 4111    | -18.5                           | -18.5         | 0.33 (1)             | 10.00  |             |               |          |       |
| AC-AD                                                                                         | 0 / 4111    | -18.5                           | -18.5         | 0.33 (1)             | 10.00  |             |               |          |       |
| AD-Q                                                                                          | 0 / 4111    | -18.5                           | -18.5         | 0.33 (1)             | 10.00  |             |               |          |       |
| Q-P                                                                                           | 0 / 4111    | -18.5                           | -18.5         | 0.33 (1)             | 10.00  |             |               |          |       |
| P-AE                                                                                          | 0 / 6582    | -18.5                           | -18.5         | 0.47 (1)             | 10.00  |             |               |          |       |
| AE-O                                                                                          | 0 / 8582    | -18.5                           | -18.5         | 0.47 (1)             | 10.00  |             |               |          |       |
| O-AF                                                                                          | 0 / 6579    | -18.5                           | -18.5         | 0.47 (1)             | 10.00  |             |               |          |       |
| AF-N                                                                                          | 0 / 6579    | -18.5                           | -18.5         | 0.47 (1)             | 10.00  |             |               |          |       |
| N-M                                                                                           | 0 / 4109    | -18.5                           | -18.5         | 0.33 (1)             | 10.00  |             |               |          |       |
| M-AG                                                                                          | 0 / 4109    | -18.5                           | -18.5         | 0.33 (1)             | 10.00  |             |               |          |       |
| AG-AH                                                                                         | 0 / 4109    | -18.5                           | -18.5         | 0.33 (1)             | 10.00  |             |               |          |       |
| AH-L                                                                                          | 0 / 4109    | -18.5                           | -18.5         | 0.33 (1)             | 10.00  |             |               |          |       |
| L-AJ                                                                                          | 0 / 0       | -18.5                           | -18.5         | 0.08 (4)             | 10.00  |             |               |          |       |
| AJ-AI                                                                                         | 0 / 0       | -18.5                           | -18.5         | 0.08 (4)             | 10.00  |             |               |          |       |
| AJ-K                                                                                          | 0 / 0       | -18.5                           | -18.5         | 0.08 (4)             | 10.00  |             |               |          |       |
| FACTORED CONCENTRATED LOADS (LBS)                                                             |             |                                 |               |                      |        |             |               |          |       |
| JT                                                                                            | LOC.        | LC1                             | MAX.          | MAX+                 | FACE   | DIR.        | TYPE          | HEEL     | CONN. |
| C                                                                                             | 5-10-8      | -457                            | -457          | -                    | FRONT  | VERT        | TOTAL         | -        | C1    |
| E                                                                                             | 15-11-8     | -110                            | -110          | -                    | FRONT  | VERT        | TOTAL         | -        | C1    |
| F                                                                                             | 17-11-12    | -110                            | -110          | -                    | FRONT  | VERT        | TOTAL         | -        | C1    |

| DESIGN CRITERIA                                                                                     |         |         |          |
|-----------------------------------------------------------------------------------------------------|---------|---------|----------|
| SPECIFIED LOADS:                                                                                    |         |         |          |
| TOP CH.                                                                                             | LL      | =       | 25.8 PSF |
|                                                                                                     | DL      | =       | 6.0 PSF  |
| BOT CH.                                                                                             | LL      | =       | 0.0 PSF  |
|                                                                                                     | DL      | =       | 7.4 PSF  |
| TOTAL LOAD                                                                                          |         | =       | 39.0 PSF |
| SPACING = 24.0 IN. C/C                                                                              |         |         |          |
| LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM                                         |         |         |          |
| THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010, NBC 2015 |         |         |          |
| THIS DESIGN COMPLIES WITH:                                                                          |         |         |          |
| - PART 9 OF CBC 2015, CBC 2012, ABC 2019                                                            |         |         |          |
| - PART 9 OF CBC 2012 (2019 AMENDMENT)                                                               |         |         |          |
| - CSA 088-09, CSA 088-14                                                                            |         |         |          |
| - TPIC 2011, TPIC 2014                                                                              |         |         |          |
| (55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD  |         |         |          |
| ALLOWABLE DEFL. (LL) = L/360 (1.06")                                                                |         |         |          |
| CALCULATED VERT. DEFL. (LL) = L/999 (0.16")                                                         |         |         |          |
| ALLOWABLE DEFL. (TL) = L/360 (1.06")                                                                |         |         |          |
| CALCULATED VERT. DEFL. (TL) = L/999 (0.30")                                                         |         |         |          |
| CSI: TC=0.48/1.00 (B-C-1), BC=0.47/1.00 (O-P-1), WB=0.51/1.00 (B-R-1), SSI=0.20/1.00 (G-H-1)        |         |         |          |
| DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00 COMP=1.00 SHEAR=1.00 TENS=1.00                               |         |         |          |
| COMPANION LIVE LOAD FACTOR = 1.00                                                                   |         |         |          |
| AUTOSOLVE HEELS OFF                                                                                 |         |         |          |
| TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.   |         |         |          |
| NAIL VALUES                                                                                         |         |         |          |
| PLATE GRIP (DRY)                                                                                    | SHEAR   | SECTION |          |
| (PSI)                                                                                               | (PLI)   | (PLI)   |          |
| MAX MIN                                                                                             | MAX MIN | MAX MIN |          |
| MT20                                                                                                | 618     | 354     | 1667     |
| 788                                                                                                 | 1987    | 1656    |          |
| PLATE PLACEMENT TOL. = 0.250 inches                                                                 |         |         |          |
| PLATE ROTATION TOL. = 5.0 Deg.                                                                      |         |         |          |
| JSI GRIP= 0.54 (R) (INPUT = 0.90)                                                                   |         |         |          |
| JSI METAL= 0.40 (M) (INPUT = 1.00)                                                                  |         |         |          |
| Structural component only 1/2                                                                       |         |         |          |
| DWG# T-2006487                                                                                      |         |         |          |

TOTAL WEIGHT = 2 X 155 = 311 lb

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

**BEARINGS**

|    | FACTORED       | MAXIMUM FACTORED | INPUT | REQD |
|----|----------------|------------------|-------|------|
|    | GROSS REACTION | GROSS REACTION   | BRG   | BRG  |
| JT | VERT           | HORZ             | DOWN  | HORZ |
| S  | 3035           | 0                | 3035  | 0    |
| K  | 3034           | 0                | 3034  | 0    |

**UNFACTORED REACTIONS**

|    | 1ST CASE | MAX./MIN. COMPONENT REACTIONS |       |           |       |         |       |
|----|----------|-------------------------------|-------|-----------|-------|---------|-------|
| JT | COMBINED | SNOW                          | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |
| S  | 2146     | 1410 / 0                      | 0 / 0 | 0 / 0     | 0 / 0 | 736 / 0 | 0 / 0 |
| K  | 2145     | 1409 / 0                      | 0 / 0 | 0 / 0     | 0 / 0 | 735 / 0 | 0 / 0 |

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

**BRACING**

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.07 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

**LOADING**

TOTAL LOAD CASES: (4)

**CHORDS**

MEMB. FORCE (LBS) FACTORED VERT. LOAD LC1 MAX. UNBRACED LENGTH FR-TO

A-B 0 / 28 -91.8 -91.8 0.07 (1) 10.00 R-C -311 / 77 0.04 (1)

B-C -4576 / 0 -91.8 -91.8 0.48 (1) 4.07 C-D 0 / 2765 0.34 (1)

C-T -6582 / 0 -91.8 -91.8 0.36 (1) 4.33 P-D -1069 / 0 0.13 (1)

T-U -6582 / 0 -91.8 -91.8 0.36 (1) 4.33 D-O -109 / 0 0.02 (1)

U-V -6582 / 0 -91.8 -91.8 0.36 (1) 4.33 O-E 0 / 191 0.02 (1)

V-D -6582 / 0 -91.8 -91.8 0.36 (1) 4.33 O-G -105 / 0 0.13 (1)

D-W -6516 / 0 -91.8 -91.8 0.29 (1) 4.40 N-G -1059 / 0 0.13 (1)

W-E -6516 / 0 -91.8 -91.8 0.29 (1) 4.40 H-H 0 / 2763 0.34 (1)

E-F -6516 / 0 -91.8 -91.8 0.29 (1) 4.40 L-H -311 / 77 0.04 (1)

F-G -6516 / 0 -91.8 -91.8 0.29 (1) 4.40 B-R 0 / 4138 0.51 (1)

G-X -6580 / 0 -91.8 -91.8 0.36 (1) 4.33 L-I 0 / 4137 0.51 (1)

X-Y -6580 / 0 -91.8 -91.8 0.36 (1) 4.33

Y-Z -6580 / 0 -91.8 -91.8 0.36 (1) 4.33

Z-H -6580 / 0 -91.8 -91.8 0.36 (1) 4.33

H-I -4574 / 0 -91.8 -91.8 0.48 (1) 4.07

I-J 0 / 28 -91.8 -91.8 0.07 (1) 10.00

J-S -2972 / 0 0.0 0.0 0.10 (1) 7.81

K-I -2971 / 0 0.0 0.0 0.10 (1) 7.81

S-AA 0 / 0 -18.5 -18.5 0.08 (4) 10.00

AA-AB 0 / 0 -18.5 -18.5 0.08 (4) 10.00

AB-R 0 / 0 -18.5 -18.5 0.08 (4) 10.00

R-AC 0 / 4111 -18.5 -18.5 0.33 (1) 10.00

AC-AD 0 / 4111 -18.5 -18.5 0.33 (1) 10.00

AD-Q 0 / 4111 -18.5 -18.5 0.33 (1) 10.00

Q-P 0 / 4111 -18.5 -18.5 0.33 (1) 10.00

P-AE 0 / 6582 -18.5 -18.5 0.47 (1) 10.00

AE-O 0 / 6582 -18.5 -18.5 0.47 (1) 10.00

O-AF 0 / 6579 -18.5 -18.5 0.47 (1) 10.00

AF-N 0 / 6579 -18.5 -18.5 0.47 (1) 10.00

N-M 0 / 4109 -18.5 -18.5 0.33 (1) 10.00

M-AG 0 / 4109 -18.5 -18.5 0.33 (1) 10.00

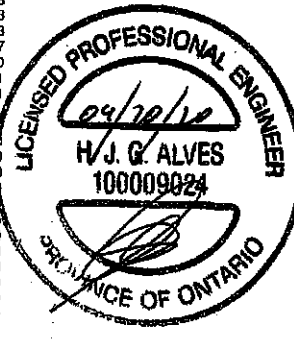
AG-AH 0 / 4109 -18.5 -18.5 0.33 (1) 10.00

AH-L 0 / 4109 -18.5 -18.5 0.33 (1) 10.00

L-AI 0 / 0 -18.5 -18.5 0.08 (4) 10.00

AI-AJ 0 / 0 -18.5 -18.5 0.08 (4) 10.00

AJ-K 0 / 0 -18.5 -18.5 0.08 (4) 10.00



**DESIGN CRITERIA**

**SPECIFIED LOADS:**

TOP CH. LL = 25.8 PSF

BOT CH. LL = 0.0 PSF

DL = 7.4 PSF

TOTAL LOAD = 39.0 PSF

**SPACING = 24.0 IN/C**

**LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.**

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 408165   | T21        | 1        | 2   | TRUSS DESC. |                  |          |

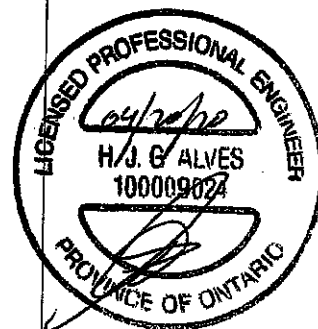
Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:44:20 2020 Page 2  
ID:Ovhty48Q0cPQc Y353NoTWzicKo-KoF1yvV? Qakh s4XuWdIW0BAKwy8Vdn7 arXOxzPzP

| FACTORED CONCENTRATED LOADS (LBS) |          |      |      |      |       |      |       |      |       |
|-----------------------------------|----------|------|------|------|-------|------|-------|------|-------|
| JT                                | LOC.     | LC1  | MAX- | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
| H                                 | 26-0-8   | -457 | -457 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| L                                 | 25-11-12 | -26  | -26  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| M                                 | 19-11-12 | -26  | -26  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| O                                 | 15-11-8  | -26  | -26  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| Q                                 | 11-11-4  | -26  | -26  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| R                                 | 5-11-4   | -26  | -26  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| T                                 | 7-11-4   | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| U                                 | 9-11-4   | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| V                                 | 11-11-4  | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| W                                 | 13-11-4  | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| X                                 | 19-11-12 | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| Y                                 | 21-11-12 | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| Z                                 | 23-11-12 | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AA                                | 1-11-4   | -26  | -26  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AB                                | 3-11-4   | -26  | -26  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AC                                | 7-11-4   | -26  | -26  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AD                                | 9-11-4   | -26  | -26  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AE                                | 13-11-4  | -26  | -26  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AF                                | 17-11-12 | -26  | -26  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AG                                | 21-11-12 | -26  | -26  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AH                                | 23-11-12 | -26  | -26  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AI                                | 27-11-12 | -26  | -26  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AJ                                | 29-11-12 | -26  | -26  | ---  | FRONT | VERT | TOTAL | ---  | C1    |

#### CONNECTION REQUIREMENTS

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



Structural component only  
DWG# T-2006487

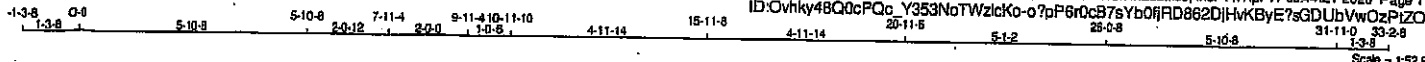
1/2

|          |            |          |     |                  |          |
|----------|------------|----------|-----|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408165   | T21Z       | 1        | 2   | GREEN PARK HOMES |          |

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MITek Industries, Inc. Fri Apr 17 08:44:21 2020 Page 1

ID:Ovhky48Q0cPQc\_Y353NoTWzlcKo-o?pP6r0cB7sYb0qFD862DihVhKByE?sgDUbVwOzPiZO



# LUMBER

## N. L. G. A. RULES

| CHORDS          | SIZE | LUMBER | DESCR. |
|-----------------|------|--------|--------|
| A - C           | 2x4  | DRY    | No.2   |
| C - F           | 2x6  | DRY    | No.2   |
| F - H           | 2x6  | DRY    | No.2   |
| H - J           | 2x4  | DRY    | No.2   |
| S - B           | 2x6  | DRY    | No.2   |
| S - I           | 2x6  | DRY    | No.2   |
| S - Q           | 2x6  | DRY    | No.2   |
| Q - M           | 2x6  | DRY    | No.2   |
| M - K           | 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(81.0)  |
| H-J                                      | 12                   | TOP         |
| C-F                                      | 12                   | SIDE(81.0)  |
| F-H                                      | 12                   | TOP         |
| S-B                                      | 12                   | TOP         |
| K-I                                      | 12                   | TOP         |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |             |
| S-Q                                      | 12                   | SIDE(183.1) |
| Q-M                                      | 12                   | SIDE(183.1) |
| M-K                                      | 12                   | TOP         |
| WEBS : (0.122"x3") SPIRAL NAILS          |                      |             |
| 2x3                                      | 6                    | SIDE(300.5) |
| G-N                                      | 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 (Tables in inches)

| JT TYPE  | PLATES | W   | LEN | Y    | X    |
|----------|--------|-----|-----|------|------|
| B TMVW-p | MT20   | 5.0 | 8.0 | 2.00 | 3.25 |
| C TTMW-m | MT20   | 7.0 | 8.0 | 2.75 | 2.75 |
| D TMWV-t | MT20   | 5.0 | 8.0 |      |      |
| E TMW-w  | MT20   | 3.0 | 6.0 |      |      |
| F TS-t   | MT20   | 5.0 | 8.0 |      |      |
| G TMWV-t | MT20   | 5.0 | 8.0 |      |      |
| H TTMW-m | MT20   | 7.0 | 8.0 | 2.75 | 2.75 |
| I TMWV-p | MT20   | 5.0 | 8.0 | 2.00 | 3.25 |
| K BMV1-p | MT20   | 3.0 | 6.0 |      |      |
| L BMWV-t | MT20   | 5.0 | 8.0 | 2.50 | 3.25 |
| M BS-t   | MT20   | 5.0 | 8.0 |      |      |
| N BMWV-t | MT20   | 8.0 | 9.0 | 3.75 | 3.00 |
| O BMWV-t | MT20   | 5.0 | 8.0 |      |      |
| P BMWV-t | MT20   | 8.0 | 9.0 | 3.75 | 3.00 |
| Q BS-t   | MT20   | 5.0 | 8.0 |      |      |
| R BMWV-t | MT20   | 5.0 | 8.0 | 2.50 | 3.25 |
| S BMV1-p | MT20   | 3.0 | 6.0 |      |      |

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

### BEARINGS

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----|-------------------------|---------------------------------|-----------|----------|
| JT | VERT                    | HORZ                            | DOWN      | HORZ     |
| S  | 4861                    | 0                               | 4861      | 0        |
| K  | 4115                    | 0                               | 4115      | 0        |

### UNFACTORED REACTIONS

|    | 1ST LOASE | MAX/MIN. COMPONENT REACTIONS |       |           |       |          |       |
|----|-----------|------------------------------|-------|-----------|-------|----------|-------|
| JT | COMBINED  | SNOW                         | LIVE  | PERM.LIVE | WIND  | DEAD     | SOIL  |
| S  | 3289      | 2197 / 0                     | 0 / 0 | 0 / 0     | 0 / 0 | 1092 / 0 | 0 / 0 |
| K  | 2901      | 1954 / 0                     | 0 / 0 | 0 / 0     | 0 / 0 | 947 / 0  | 0 / 0 |

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

### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.09 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

### LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MAX. FACTORED MEMB. FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX CSI (LC) | MAX. UNBRAC LENGTH | WEBS  | MAX. FACTORED MEMB. FORCE (LBS) | MAX. CSI (LC) |
|--------|---------------------------------|---------------------------|------------------|--------------------|-------|---------------------------------|---------------|
| FR-TO  |                                 | FROM TO                   |                  |                    | FR-TO |                                 |               |
| A-B    | 0 / 28                          | -91.8                     | -91.8            | 0.07 (1)           | 10.00 | R-C                             | -38 / 149     |
| B-C    | -7520 / 0                       | -91.8                     | -91.8            | 0.75 (1)           | 3.09  | C-P                             | 0 / 5427      |
| C-T    | -11580 / 0                      | -91.8                     | -91.8            | 0.51 (1)           | 3.27  | P-D                             | -1128 / 0     |
| T-U    | -11580 / 0                      | -91.8                     | -91.8            | 0.51 (1)           | 3.27  | D-O                             | 0 / 489       |
| U-D    | -11580 / 0                      | -91.8                     | -91.8            | 0.51 (1)           | 3.27  | O-E                             | -20 / 33      |
| D-E    | -11580 / 0                      | -91.8                     | -91.8            | 0.31 (1)           | 3.38  | E-G                             | 0 / 148       |
| E-F    | -11580 / 0                      | -91.8                     | -91.8            | 0.29 (1)           | 3.39  | G-N                             | -777 / 0      |
| F-G    | -11580 / 0                      | -91.8                     | -91.8            | 0.29 (1)           | 3.39  | N-H                             | 0 / 6629      |
| G-H    | -11804 / 0                      | -91.8                     | -91.8            | 0.50 (1)           | 3.25  | L-H                             | -609 / 0      |
| H-I    | -6538 / 0                       | -91.8                     | -91.8            | 0.85 (1)           | 3.37  | R-R                             | 0 / 8807      |
| I-J    | 0 / 28                          | -91.8                     | -91.8            | 0.07 (1)           | 10.00 | L-I                             | 0 / 5913      |
| S-B    | -4635 / 0                       | 0.0                       | 0.0              | 0.16 (1)           | 6.71  |                                 |               |
| K-I    | -4078 / 0                       | 0.0                       | 0.0              | 0.14 (1)           | 7.05  |                                 |               |
| S-V    | 0 / 0                           | -18.5                     | -18.5            | 0.15 (1)           | 10.00 |                                 |               |
| V-W    | 0 / 0                           | -18.5                     | -18.5            | 0.15 (1)           | 10.00 |                                 |               |
| W-R    | 0 / 0                           | -18.5                     | -18.5            | 0.15 (1)           | 10.00 |                                 |               |
| R-X    | 0 / 8747                        | -18.5                     | -18.5            | 0.69 (1)           | 10.00 |                                 |               |
| X-Y    | 0 / 8747                        | -18.5                     | -18.5            | 0.69 (1)           | 10.00 |                                 |               |
| Y-Q    | 0 / 8747                        | -18.5                     | -18.5            | 0.69 (1)           | 10.00 |                                 |               |
| Q-P    | 0 / 8747                        | -18.5                     | -18.5            | 0.69 (1)           | 10.00 |                                 |               |
| P-Z    | 0 / 11598                       | -18.5                     | -18.5            | 0.94 (1)           | 10.00 |                                 |               |
| Z-O    | 0 / 11598                       | -18.5                     | -18.5            | 0.94 (1)           | 10.00 |                                 |               |
| O-AA   | 0 / 11803                       | -18.5                     | -18.5            | 0.94 (1)           | 10.00 |                                 |               |
| AA-N   | 0 / 11803                       | -18.5                     | -18.5            | 0.94 (1)           | 10.00 |                                 |               |
| N-M    | 0 / 5878                        | -18.5                     | -18.5            | 0.46 (1)           | 10.00 |                                 |               |
| M-L    | 0 / 5878                        | -18.5                     | -18.5            | 0.46 (1)           | 10.00 |                                 |               |
| L-K    | 0 / 0                           | -18.5                     | -18.5            | 0.05 (4)           | 10.00 |                                 |               |

### FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.   | LC1   | MAX.  | MAX. | FACE | DIR. | TOTAL |
|----|--------|-------|-------|------|------|------|-------|
| C  | 5-10-8 | -380  | -380  |      | BACK | VERT |       |
| N  | 18-8-8 | -1854 | -1854 |      | BACK | VERT |       |
| O  | 15-9-4 | -459  | -459  |      | BACK | VERT |       |
| Q  | 11-9-4 | -459  | -459  |      | BACK | VERT |       |
| R  | 5-11-4 | -256  | -256  |      | BACK | VERT |       |
| T  | 7-11-4 | -33   | -33   |      | BACK | VERT |       |
| U  | 9-11-4 | -33   | -33   |      | BACK | VERT |       |
| V  | 2-0-12 | -41   | -41   |      | BACK | VERT |       |
| W  | 4-0-12 | -61   | -61   |      | BACK | VERT |       |
| X  | 7-11-4 | -256  | -256  |      | BACK | VERT |       |
| Y  | 9-11-4 | -256  | -256  |      | BACK | VERT |       |
| Z  | 13-9-4 | -459  | -459  |      | BACK | VERT |       |

## DESIGN CRITERIA

### SPECIFIED LOADS:

|            |    |        |     |
|------------|----|--------|-----|
| TOP CH.    | LL | = 25.8 | PSF |
|            | DL | = 8.0  | PSF |
| BOT CH.    | LL | = 0.0  | PSF |
|            | DL | = 7.4  | PSF |
| TOTAL LOAD |    | = 39.0 | PSF |

SPACING = 24.0 IN. O.C

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

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF NBC 2018, CBC 2012, ABC 2019  
- PART 9 OF CBC 2012 (2019 AMENDMENT)  
- CSA 088-09, CSA 086-14  
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.08")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.29")  
ALLOWABLE DEFL.(TL) = L/360 (1.08")  
CALCULATED VERT. DEFL.(TL) = L/717 (0.53")

CSI: TC=0.75/1.00 (B-C:1), BC=0.94/1.00 (N-O:1), WB=0.84/1.00 (B-R:1), SSI=0.23/1.00 (P-R:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

### NAIL VALUES

| PLATE | GRIP(DRY) | SHEAR | SECTION            |
|-------|-----------|-------|--------------------|
|       | (PSI)     | (PLI) | (PLI)              |
| MT20  | 618       | 354   | 1867 788 1987 1656 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (N) (INPUT = 0.90)  
JSI METAL = 0.73 (M) (INPUT = 1.00)

Structural component only 1/2  
DWG# T-2006488

CONTINUED ON PAGE 2

|                                 |            |             |     |                  |          |
|---------------------------------|------------|-------------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY    | PLY | JOB DESC.        | DRWG NO. |
| 408165                          | T21Z       | 1           | 2   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            | TRUSS DESC. |     |                  |          |

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:44:21 2020 Page 2

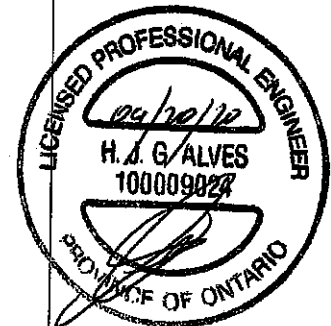
ID:Ovnyk48Q0cPQc Y353NoTWzlcKc-a7cP6DcB7sYb0fjRD882DiHvKByE7sGDUbVwOzPiZO

FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.   | LC1  | MAX- | MAX+ | FACE | DIR. | TYPE  | HEEL | CONN. |
|----|--------|------|------|------|------|------|-------|------|-------|
| AA | 17-9-4 | -458 | -459 | ---  | BACK | VERT | TOTAL | ---  | C1    |

CONNECTION REQUIREMENTS

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



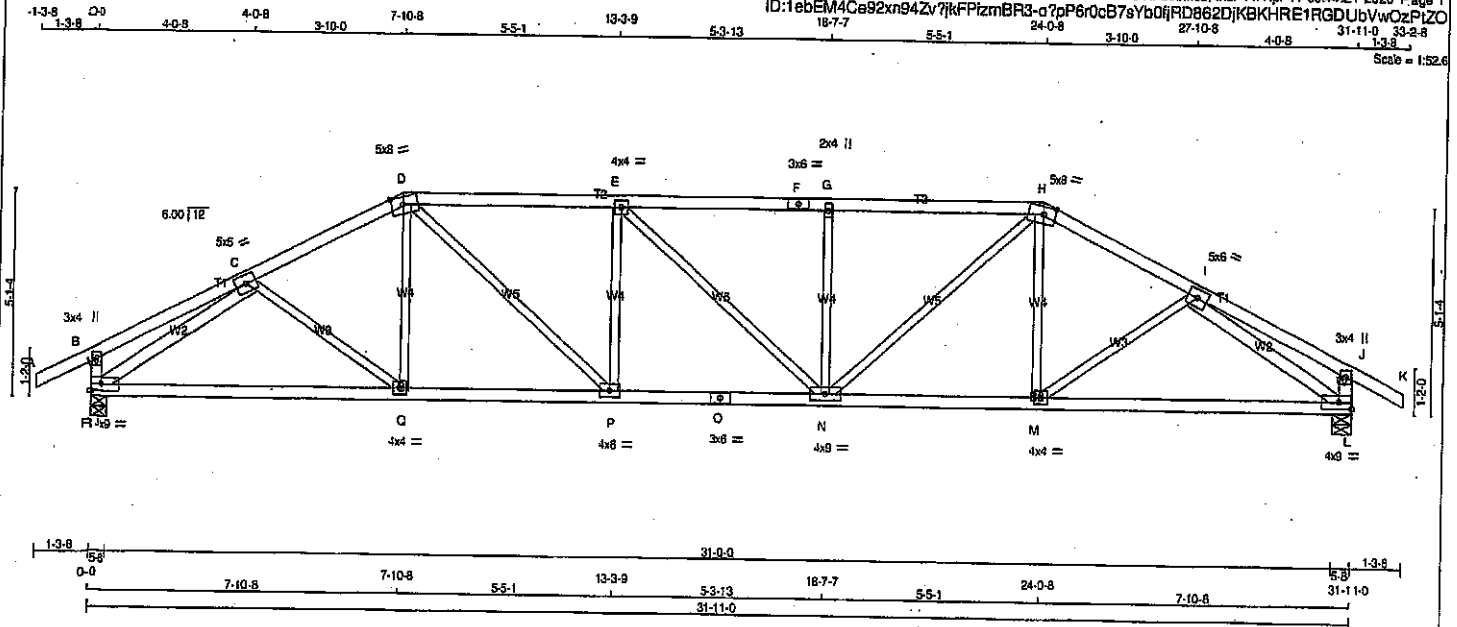
Structural component only  
DWG# T-2006488

7/2

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | TRUSS DESC. | DRWG NO. |
|----------|------------|----------|-----|------------------|-------------|----------|
| 408165   | T22        | 1        | 1   | GREEN PARK HOMES |             |          |

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:44:21 2020 Page 1  
ID:1ebEM4Ca92xn94Zv7kFPizmBR3-a7pP6r0cB7sYb0iRD862DjKBKHE1RGDUbVwOzPlZO  
18-7-7 5-3-13 24-0-8 3-10-0 27-10-8 4-0-8 31-11-0 33-9-8  
Scale = 1:52.6



#### LUMBER

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

| CHORDS | SIZE | DRY | LUMBER |
|--------|------|-----|--------|
| 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   |     |     |      |
| R - C    | 2x4 | DRY | No.2 |
| I - L    | 2x4 | DRY | No.2 |

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE     | PLATES | W   | LEN | Y    | X    |
|----|----------|--------|-----|-----|------|------|
| B  | TMV+p    | MT20   | 3.0 | 4.0 |      |      |
| C  | TMWW-t   | MT20   | 5.0 | 6.0 |      |      |
| D  | TTWW-m   | MT20   | 5.0 | 8.0 | 2.25 | 3.50 |
| E  | TMWW-t   | MT20   | 4.0 | 4.0 |      |      |
| F  | TS-t     | MT20   | 3.0 | 6.0 |      |      |
| G  | TMWW-w   | MT20   | 2.0 | 4.0 |      |      |
| H  | TTWW-m   | MT20   | 5.0 | 8.0 | 2.25 | 3.50 |
| I  | TMWW-t   | MT20   | 5.0 | 8.0 |      |      |
| J  | TMV+p    | MT20   | 3.0 | 4.0 |      |      |
| L  | BMVW-t   | MT20   | 4.0 | 9.0 |      | Edge |
| M  | BMVW-t   | MT20   | 4.0 | 4.0 |      |      |
| N  | BMVWVW-t | MT20   | 4.0 | 9.0 |      |      |
| O  | BS-t     | MT20   | 3.0 | 6.0 |      |      |
| P  | BMVW-t   | MT20   | 4.0 | 6.0 |      |      |
| Q  | BMVW-t   | MT20   | 4.0 | 4.0 |      |      |
| R  | BMVW-t   | MT20   | 4.0 | 9.0 |      | Edge |

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

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

##### BUILDING DESIGNER

##### BEARINGS

|    | FACTORED       | MAXIMUM FACTORED | INPUT  | RECORD |
|----|----------------|------------------|--------|--------|
|    | GROSS REACTION | GROSS REACTION   | BRG    | BRG    |
|    | VERT           | DOWN             | UPLIFT | IN-SX  |
| JT | 1884           | 0                | 0      | 5-8    |
| R  | 1884           | 0                | 0      | 5-8    |
| L  | 1884           | 0                | 0      | 5-8    |

##### UNFACTORED REACTIONS

|    | 1ST CASE | MAX. MIN. COMPONENT REACTIONS |       |            |       |         |       |  |
|----|----------|-------------------------------|-------|------------|-------|---------|-------|--|
|    | COMBINED | SNOW                          | LIVE  | PERM. LIVE | WIND  | DEAD    | SOIL  |  |
| JT | 1330     | 866 / 0                       | 0 / 0 | 0 / 0      | 0 / 0 | 444 / 0 | 0 / 0 |  |
| R  | 1330     | 866 / 0                       | 0 / 0 | 0 / 0      | 0 / 0 | 444 / 0 | 0 / 0 |  |
| L  | 1330     | 866 / 0                       | 0 / 0 | 0 / 0      | 0 / 0 | 444 / 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 = 3.61 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |               |          |                | WEBS  |               |           |                |
|--------|---------------|----------|----------------|-------|---------------|-----------|----------------|
| MEMB.  | MAX. FACTORED | FACTORED | VERT. LOAD LC1 | MEMB. | MAX. FACTORED | FACTORED  | VERT. LOAD LC1 |
|        | FORCE         | (PLF)    | MAX            |       | FORCE         | (PLF)     | MAX            |
|        | (LBS)         |          |                |       | (LBS)         |           |                |
| FR-TO  |               |          |                | FR-TO |               |           |                |
| A-B    | 0 / 28        | -91.8    | -91.8 0.12 (1) | 10.00 | C-Q           | 0 / 74    | 0.03 (4)       |
| B-C    | 0 / 17        | -91.8    | -91.8 0.20 (1) | 10.00 | Q-D           | 0 / 133   | 0.04 (4)       |
| C-D    | -2469 / 0     | -91.8    | -91.8 0.30 (1) | 4.12  | D-P           | 0 / 933   | 0.21 (1)       |
| D-E    | -2893 / 0     | -91.8    | -91.8 0.54 (1) | 3.61  | P-E           | -534 / 0  | 0.21 (1)       |
| E-F    | -2891 / 0     | -91.8    | -91.8 0.53 (1) | 3.61  | E-N           | -2 / 0    | 0.00 (1)       |
| F-G    | -2891 / 0     | -91.8    | -91.8 0.53 (1) | 3.61  | N-G           | -533 / 0  | 0.21 (1)       |
| G-H    | -2891 / 0     | -91.8    | -91.8 0.53 (1) | 3.61  | M-H           | 0 / 931   | 0.21 (1)       |
| H-I    | -2469 / 0     | -91.8    | -91.8 0.30 (1) | 4.12  | M-I           | 0 / 134   | 0.04 (4)       |
| I-J    | 0 / 17        | -91.8    | -91.8 0.20 (1) | 10.00 | R-C           | 0 / 74    | 0.03 (4)       |
| J-K    | 0 / 28        | -91.8    | -91.8 0.12 (1) | 10.00 | I-L           | -2666 / 0 | 0.74 (1)       |
| R-B    | -269 / 0      | 0.0      | 0.0 0.03 (1)   | 7.81  |               |           |                |
| L-J    | -269 / 0      | 0.0      | 0.0 0.03 (1)   | 7.81  |               |           |                |
| R-Q    | 0 / 2167      | -18.5    | -18.5 0.49 (1) | 10.00 |               |           |                |
| Q-P    | 0 / 2194      | -18.5    | -18.5 0.48 (1) | 10.00 |               |           |                |
| P-O    | 0 / 2893      | -18.5    | -18.5 0.53 (1) | 10.00 |               |           |                |
| O-N    | 0 / 2893      | -18.5    | -18.5 0.53 (1) | 10.00 |               |           |                |
| N-M    | 0 / 2194      | -18.5    | -18.5 0.49 (1) | 10.00 |               |           |                |
| M-L    | 0 / 2169      | -18.5    | -18.5 0.49 (1) | 10.00 |               |           |                |

TOTAL WEIGHT = 130 lb

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |           |     |
|------------|-----------|-----|
| TOP CH.    | LL = 25.6 | PSF |
|            | DL = 6.0  | PSF |
| BOT CH.    | LL = 0.0  | PSF |
|            | DL = 7.4  | PSF |
| TOTAL LOAD | = 39.0    | PSF |

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL. (LL) =  $L/360$  (1.06")  
CALCULATED VERT. DEFL. (LL) =  $L/999$  (0.15")  
ALLOWABLE DEFL. (TL) =  $L/360$  (1.06")  
CALCULATED VERT. DEFL. (TL) =  $L/899$  (0.29")

CSI: TC=0.54/1.00 (D-E:1), BC=0.53/1.00 (N-P:1),  
WB=0.74/1.00 (I-L:1), SS=0.23/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

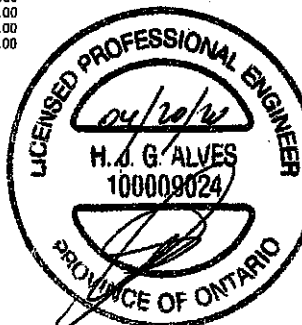
##### NAIL VALUES

| PLATE GRIP (DRY) | SHEAR   | SECTION            |
|------------------|---------|--------------------|
| (PSI)            | (PL)    | (PL)               |
| MAX MIN          | MAX MIN | MAX MIN            |
| MT20             | 618 354 | 1657 788 1587 1656 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.84 (C) (INPUT = 0.90)  
JSI METAL= 0.94 (C) (INPUT = 1.00)



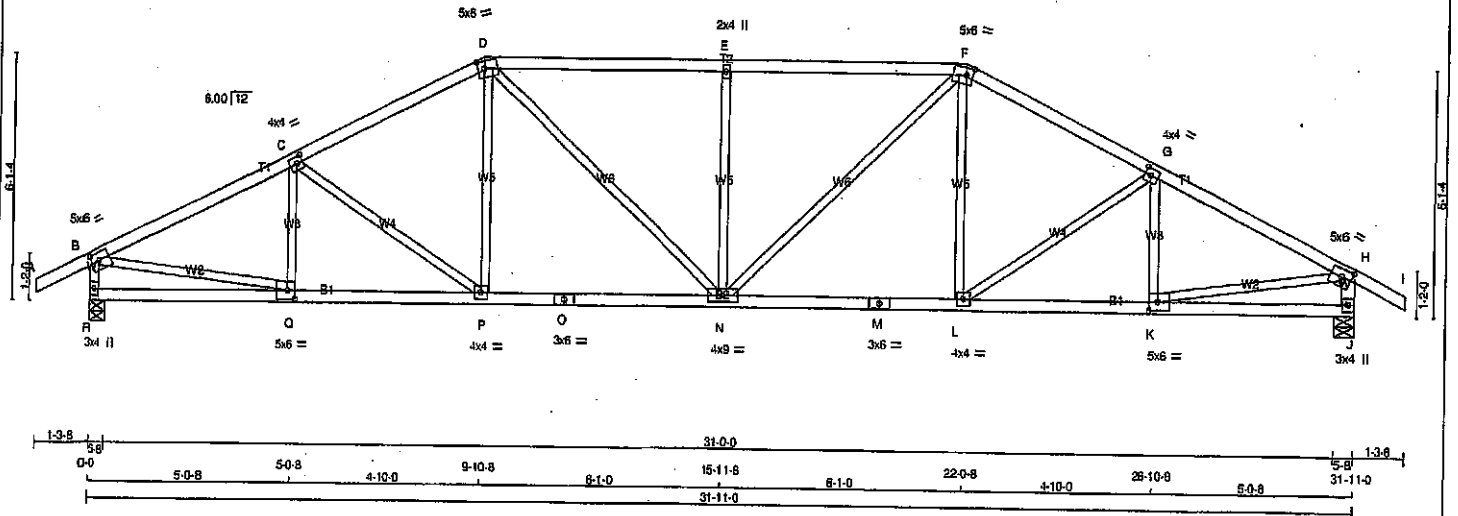
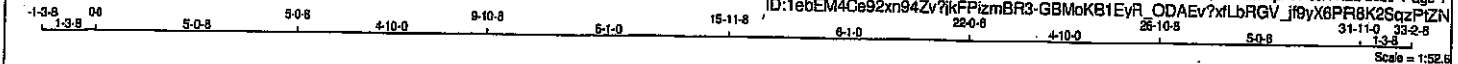
Structural component only  
DWG# T-2006489

|                    |                   |               |          |                               |             |          |
|--------------------|-------------------|---------------|----------|-------------------------------|-------------|----------|
| JOB NAME<br>408165 | TRUSS NAME<br>T23 | QUANTITY<br>1 | PLY<br>1 | JOB DESC.<br>GREEN PARK HOMES | TRUSS DESC. | DRWG NO. |
|--------------------|-------------------|---------------|----------|-------------------------------|-------------|----------|

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MTek Industries, Inc. Fri Apr 17 08:44:22 2020 Page 1

ID:1ebEM4Ce92xn94Zv7kFPizmBR3-GBMokB1EvR\_ODAEv?xflRbGV\_jf8yX6PR8K2SgzPzN



#### LUMBER

N. L. G. A. RULES

CHORDS SIZE

A - D 2x4 DRY

D - F 2x4 DRY

F - I 2x4 DRY

R - B 2x4 DRY

J - H 2x4 DRY

R - O 2x4 DRY

O - M 2x4 DRY

M - J 2x4 DRY

ALL WEBS 2x3 DRY

EXCEPT

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

JT TYPE PLATES

B TMVW-t MT20

C TMVW-t MT20

D TTWW-m MT20

E TMVW-t MT20

F TTWW-m MT20

G TMVW-t MT20

H TMVW-t MT20

J BMV1-p MT20

K BMVW-t MT20

L BMVW-t MT20

M BS-1 MT20

N BMVWW-t MT20

O BS-1 MT20

P BMVW-t MT20

Q BMVW-t MT20

R BMV1-p MT20

#### DESCR.

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

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

##### BEARINGS

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----|-------------------------|---------------------------------|-----------|----------|
| JT | VERT                    | DOWN                            | UP/LIFT   | IN-SX    |
| H  | 1884                    | 0                               | 0         | 5-8      |
| J  | 1884                    | 0                               | 0         | 5-8      |

##### UNFACTORED REACTIONS

|   | 1ST LOASE COMBINED | MAX. MIN. SNOW | MIN. COMPONENT LIVE | PERM. LIVE | WIND  | DEAD    | SOIL  |
|---|--------------------|----------------|---------------------|------------|-------|---------|-------|
| R | 1330               | 886 / 0        | 0 / 0               | 0 / 0      | 0 / 0 | 444 / 0 | 0 / 0 |
| J | 1330               | 886 / 0        | 0 / 0               | 0 / 0      | 0 / 0 | 444 / 0 | 0 / 0 |

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

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.82 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                      |                           |                  | WEBS  |                      |                  |  |
|--------|----------------------|---------------------------|------------------|-------|----------------------|------------------|--|
| MEMB.  | FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. LENGTH (LC) | MEMB. | FACTORED FORCE (LBS) | MAX. LENGTH (LC) |  |
| FR-TO  |                      | FROM TO                   |                  | FR-TO |                      |                  |  |
| A-B    | 0 / 28               | -91.8 -91.8               | 0.12 (1)         | C-Q   | -301 / 0             | 0.07 (1)         |  |
| B-C    | -2538 / 0            | -91.8 -91.8               | 0.37 (1)         | C-P   | -284 / 0             | 0.16 (1)         |  |
| C-D    | -2342 / 0            | -91.8 -91.8               | 0.35 (1)         | P-D   | 0 / 257              | 0.08 (1)         |  |
| D-E    | -2493 / 0            | -91.8 -91.8               | 0.54 (1)         | D-N   | 0 / 575              | 0.13 (1)         |  |
| E-F    | -2493 / 0            | -91.8 -91.8               | 0.54 (1)         | N-E   | -885 / 0             | 0.40 (1)         |  |
| F-G    | -2342 / 0            | -91.8 -91.8               | 0.35 (1)         | N-F   | 0 / 575              | 0.13 (1)         |  |
| G-H    | -2538 / 0            | -91.8 -91.8               | 0.37 (1)         | L-F   | 0 / 257              | 0.08 (1)         |  |
| H-I    | 0 / 28               | -91.8 -91.8               | 0.12 (1)         | L-G   | -284 / 0             | 0.16 (1)         |  |
| I-J    | -1841 / 0            | 0.0 0.0                   | 0.19 (1)         | K-G   | -301 / 0             | 0.07 (1)         |  |
| J-H    | -1841 / 0            | 0.0 0.0                   | 0.19 (1)         | B-Q   | 0 / 2323             | 0.52 (1)         |  |
|        |                      |                           |                  | K-H   | 0 / 2323             | 0.52 (1)         |  |
| R-Q    | 0 / 0                | -18.5 -18.5               | 0.10 (4)         |       |                      |                  |  |
| Q-P    | 0 / 2290             | -18.5 -18.5               | 0.43 (1)         |       |                      |                  |  |
| P-O    | 0 / 2077             | -18.5 -18.5               | 0.40 (1)         |       |                      |                  |  |
| O-N    | 0 / 2077             | -18.5 -18.5               | 0.40 (1)         |       |                      |                  |  |
| N-M    | 0 / 2077             | -18.5 -18.5               | 0.40 (1)         |       |                      |                  |  |
| M-L    | 0 / 2077             | -18.5 -18.5               | 0.40 (1)         |       |                      |                  |  |
| L-K    | 0 / 2290             | -18.5 -18.5               | 0.43 (1)         |       |                      |                  |  |
| K-J    | 0 / 0                | -18.5 -18.5               | 0.10 (4)         |       |                      |                  |  |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |           |     |
|------------|-----------|-----|
| TOP CH.    | LL = 25.6 | PSF |
|            | DL = 6.0  | PSF |
| BOT CH.    | LL = 0.0  | PSF |
|            | DL = 7.4  | PSF |
| TOTAL LOAD | = 39.0    | PSF |

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-08, CSA 086-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (1.08")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.13")  
ALLOWABLE DEFL.(TL) = L/360 (1.08")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.24")

CSI: TC=0.54/1.00 (D-E-1), BC=0.43/1.00 (K-L-1),  
WB=0.52/1.00 (H-K-1), SS=0.27/1.00 (E-F-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

##### NAIL VALUES

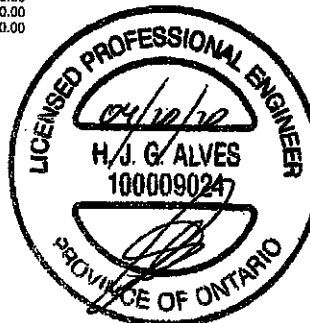
| PLATE GRIP(DRY) | SHEAR (PSI)                | SECTION (PLI) |
|-----------------|----------------------------|---------------|
| MT20            | 618 354 1657 788 1987 1656 |               |

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.90 (B) (INPUT = 0.90)  
JSI METAL= 0.67 (B) (INPUT = 1.00)

Structural component only  
DWG# T-2006490



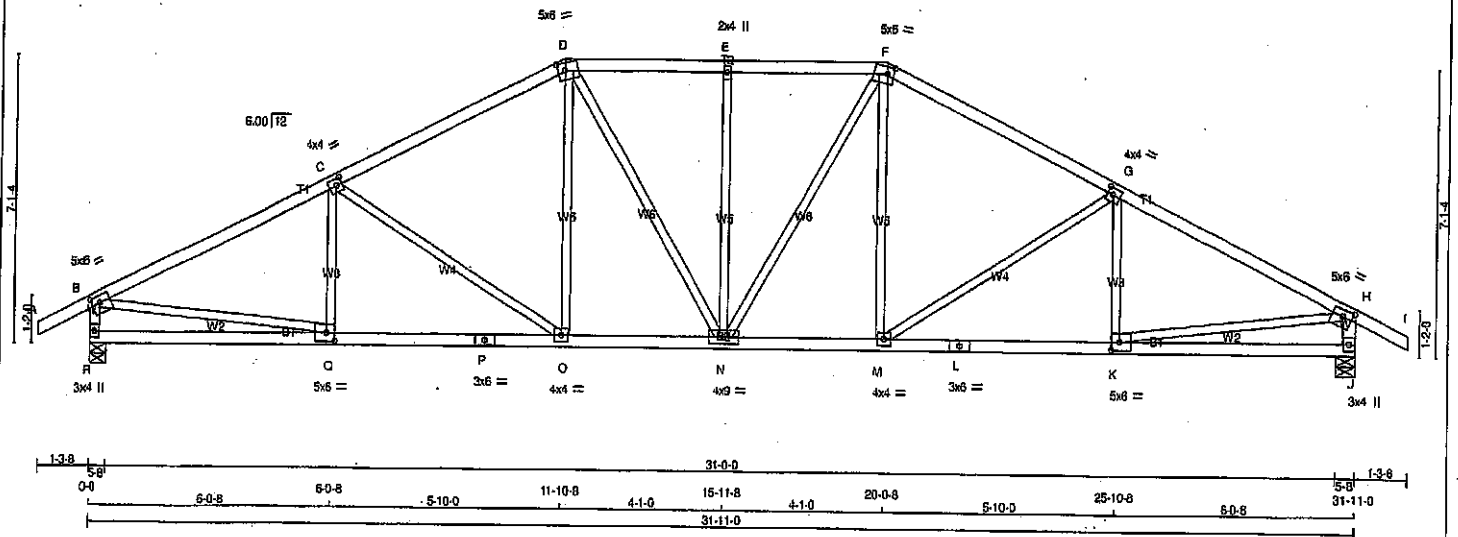
|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 408165   | T24        | 1        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:44:22 2020 Page 1

ID:1ebEM4Cs92xn94Zv?rkFPizmBR3-GBMoKB1EYR\_ODAEV?xLbRGVpj6yX?PR8K2SqzPizN

31-11-0 33-2-8 1-3-8 Scale = 1:52.6



#### 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    |
| R - B  | 2x4  | DRY | No.2   | SPF    |
| J - H  | 2x4  | DRY | No.2   | SPF    |
| R - P  | 2x4  | DRY | No.2   | SPF    |
| P - L  | 2x4  | DRY | No.2   | SPF    |
| L - J  | 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-1 | MT20   | 5.0 | 6.0 | 2.00 | 2.75 |
| C  | TMVW-1 | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| D  | TTWW-m | MT20   | 5.0 | 6.0 | 2.25 | 2.00 |
| E  | TMVW-w | MT20   | 2.0 | 4.0 |      |      |
| F  | TTWW-m | MT20   | 5.0 | 6.0 | 2.25 | 2.00 |
| G  | TMVW-1 | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| H  | TMVW-1 | MT20   | 5.0 | 6.0 | 2.00 | 2.75 |
| J  | BMV1-p | MT20   | 3.0 | 4.0 |      |      |
| K  | BMVW-1 | MT20   | 5.0 | 6.0 | 2.50 | 2.50 |
| L  | BS-1   | MT20   | 3.0 | 6.0 |      |      |
| M  | BMVW-1 | MT20   | 4.0 | 4.0 |      |      |
| N  | BMVW-1 | MT20   | 4.0 | 9.0 |      |      |
| O  | BMVW-1 | MT20   | 4.0 | 4.0 |      |      |
| P  | BS-1   | MT20   | 3.0 | 6.0 |      |      |
| Q  | BMVW-1 | MT20   | 5.0 | 6.0 | 2.50 | 2.50 |
| R  | BMV1-p | MT20   | 3.0 | 4.0 |      |      |

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

##### BUILDING DESIGNER

##### BEARINGS

|    | FACTORED       | MAXIMUM FACTORED | INPUT | REQ'D  |
|----|----------------|------------------|-------|--------|
|    | GROSS REACTION | GROSS REACTION   | BRG   | BRG    |
| JT | VERT           | DOWN             | HORIZ | UPLIFT |
| R  | 1884           | 0                | 1884  | 0      |
| J  | 1884           | 0                | 1884  | 0      |

##### UNFACTORED REACTIONS

|    | 1ST CASE | MAX. MIN. COMPONENT REACTIONS |
|----|----------|-------------------------------|
| JT | COMBINED | SNOW                          |
| R  | 1330     | 886 / 0                       |
| J  | 1330     | 886 / 0                       |

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

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.79 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           | WEBS          |                    |       |                           |              |          |
|--------|---------------------------|---------------------------|---------------|--------------------|-------|---------------------------|--------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CS1 (LC) | MAX. UNBRAC LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX CS1 (LC) |          |
| FR-TO  |                           | FROM                      | TO            |                    | FR-TO |                           |              |          |
| A-B    | 0 / 28                    | -91.8                     | -91.8         | 0.12 (1)           | 10.00 | C-Q                       | -212 / 29    | 0.06 (1) |
| B-C    | -2579 / 0                 | -91.8                     | -91.8         | 0.55 (1)           | 3.79  | C-O                       | -480 / 0     | 0.46 (1) |
| C-D    | -2188 / 0                 | -91.8                     | -91.8         | 0.49 (1)           | 4.11  | D-O                       | 0 / 362      | 0.08 (1) |
| D-E    | -2088 / 0                 | -91.8                     | -91.8         | 0.24 (1)           | 4.49  | D-N                       | 0 / 256      | 0.07 (1) |
| E-F    | -2088 / 0                 | -91.8                     | -91.8         | 0.24 (1)           | 4.49  | N-E                       | -451 / 0     | 0.39 (1) |
| F-G    | -2188 / 0                 | -91.8                     | -91.8         | 0.49 (1)           | 4.11  | N-F                       | 0 / 296      | 0.07 (1) |
| G-H    | -2579 / 0                 | -91.8                     | -91.8         | 0.55 (1)           | 3.79  | M-F                       | 0 / 362      | 0.08 (1) |
| H-I    | 0 / 28                    | -91.8                     | -91.8         | 0.12 (1)           | 10.00 | M-G                       | -480 / 0     | 0.46 (1) |
| I-B    | -1836 / 0                 | 0.0                       | 0.0           | 0.19 (1)           | 8.18  | K-G                       | -212 / 26    | 0.05 (1) |
| J-H    | -1836 / 0                 | 0.0                       | 0.0           | 0.19 (1)           | 8.18  | B-Q                       | 0 / 2355     | 0.53 (1) |
|        |                           |                           |               |                    |       | K-H                       | 0 / 2355     | 0.53 (1) |
| R-Q    | 0 / 0                     | -18.5                     | -18.5         | 0.15 (4)           | 10.00 |                           |              |          |
| Q-P    | 0 / 2332                  | -18.5                     | -18.5         | 0.44 (1)           | 10.00 |                           |              |          |
| P-O    | 0 / 2332                  | -18.5                     | -18.5         | 0.44 (1)           | 10.00 |                           |              |          |
| O-N    | 0 / 1935                  | -18.5                     | -18.5         | 0.37 (1)           | 10.00 |                           |              |          |
| N-M    | 0 / 1935                  | -18.5                     | -18.5         | 0.37 (1)           | 10.00 |                           |              |          |
| M-L    | 0 / 2332                  | -18.5                     | -18.5         | 0.44 (1)           | 10.00 |                           |              |          |
| L-K    | 0 / 2332                  | -18.5                     | -18.5         | 0.44 (1)           | 10.00 |                           |              |          |
| K-J    | 0 / 0                     | -18.5                     | -18.5         | 0.15 (4)           | 10.00 |                           |              |          |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |           |     |
|------------|-----------|-----|
| TOP CH.    | LL = 25.6 | PSF |
|            | DL = 6.0  | PSF |
| BOT CH.    | LL = 0.0  | PSF |
|            | DL = 7.4  | PSF |
| TOTAL LOAD | = 39.0    | PSF |

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

155 % OF 31.5 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.06")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.12")  
ALLOWABLE DEFL.(TL) = L/360 (1.06")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.21")

CSI: TC=0.55/1.00 (G-H:1), BC=0.44/1.00 (K-M:1), WB=0.53/1.00 (H-K:1), SS=0.24/1.00 (G-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

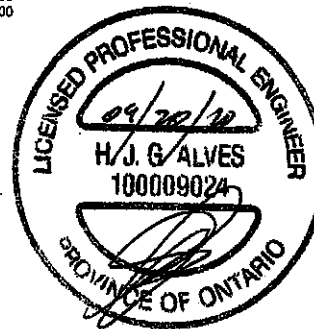
#### NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.88 (H) (INPUT = 0.90)  
JSI METAL = 0.74 (P) (INPUT = 1.00)

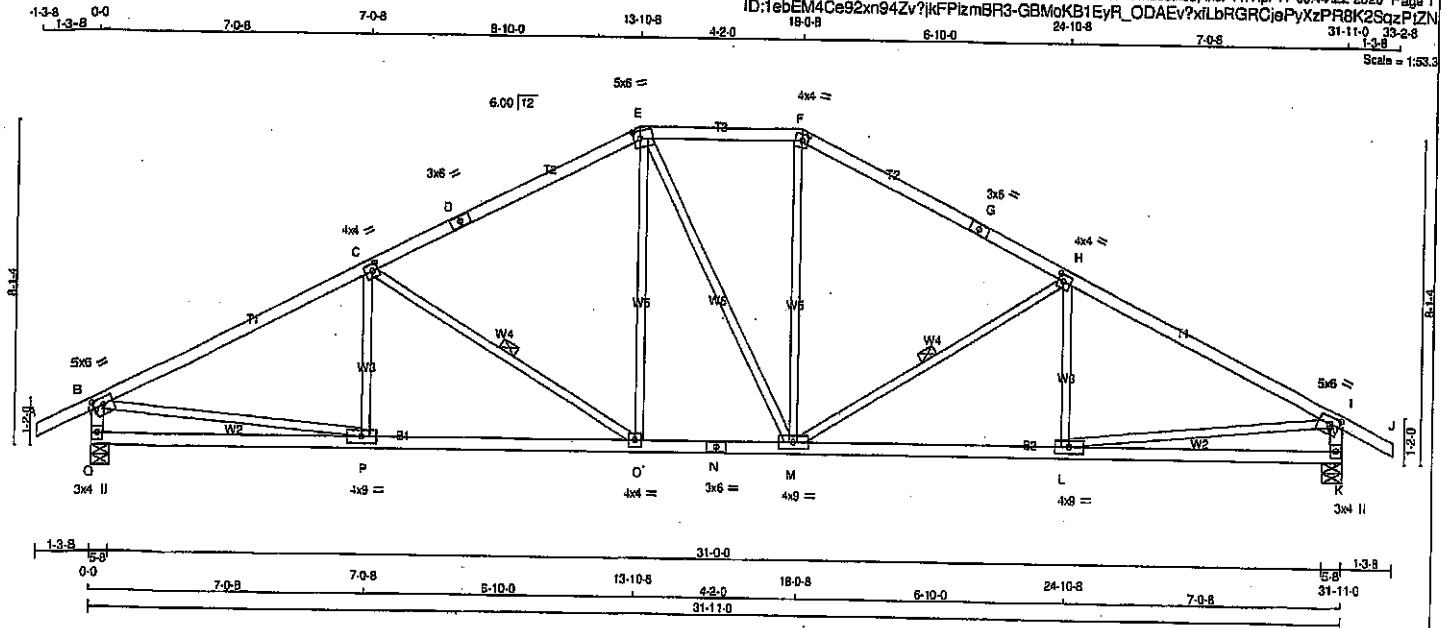


Structural component only  
DWG# T-2006491

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 408165   | T25        | 1        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MiTek Industries, Inc. Fri Apr 17 08:44:22 2020 Page 1  
ID:1ebEM4Ce92xn94Zv?kFPlzm9R3-GBMoKB1EyR\_ODAEv?xILbRGRCiePyXzPR8K2SqzP1ZN  
31-11-0 33-2-8  
Scale = 1:50.3



#### LUMBER

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

| CHORDS | SIZE | LUMBER | DESCR. |
|--------|------|--------|--------|
| A - D  | 2x4  | DRY    | No.2   |
| D - E  | 2x4  | DRY    | No.2   |
| E - F  | 2x4  | DRY    | No.2   |
| F - G  | 2x4  | DRY    | No.2   |
| G - J  | 2x4  | DRY    | No.2   |
| J - K  | 2x4  | DRY    | No.2   |
| K - L  | 2x4  | DRY    | No.2   |
| L - N  | 2x4  | DRY    | No.2   |
| N - K  | 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  | TMW-1  | MT20   | 5.0 | 6.0 | 2.00 | 2.75 |
| C  | TMW-1  | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| D  | TS-1   | MT20   | 3.0 | 6.0 |      |      |
| E  | TTW-m  | MT20   | 5.0 | 6.0 | 2.25 | 2.00 |
| F  | TTW-m  | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| G  | TS-1   | MT20   | 3.0 | 6.0 |      |      |
| H  | TMW-1  | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| I  | TMW-1  | MT20   | 5.0 | 6.0 | 2.00 | 2.75 |
| K  | BMV1-p | MT20   | 3.0 | 4.0 |      |      |
| L  | BMW-1  | MT20   | 4.0 | 9.0 |      |      |
| M  | BS-1   | MT20   | 4.0 | 9.0 |      |      |
| N  | BS-1   | MT20   | 3.0 | 6.0 |      |      |
| O  | BMW-1  | MT20   | 4.0 | 4.0 |      |      |
| P  | BMW-1  | MT20   | 4.0 | 9.0 |      |      |
| Q  | BMV1-p | MT20   | 3.0 | 4.0 |      |      |

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

##### BUILDING DESIGNER

##### BEARINGS

| JT | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----|-------------------------|---------------------------------|-----------|----------|
| Q  | 1884 0                  | 1884 0                          | 5-8       | 5-8      |
| K  | 1884 0                  | 1884 0                          | 5-8       | 5-8      |

##### UNFACTORED REACTIONS

| JT | 1ST CASE | MAX/MIN. COMPONENT REACTIONS | PERM. LIVE | WIND  | DEAD  | SOIL |
|----|----------|------------------------------|------------|-------|-------|------|
| Q  | 1330     | 885 / 0                      | 0 / 0      | 0 / 0 | 444 0 | 0 0  |
| K  | 1330     | 885 / 0                      | 0 / 0      | 0 / 0 | 444 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 = 3.47 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 |                           |                           |                           | WEBB  |                           |                           |          |
|--------|---------------------------|---------------------------|---------------------------|-------|---------------------------|---------------------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. UNBRACED LENGTH (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (LC) |          |
| FR-TO  |                           | FROM TO                   |                           | FR-TO |                           |                           |          |
| A-B    | 0 / 28                    | -91.8                     | -91.8 0.12 (1)            | 10.00 | P-C                       | -140 / 71                 | 0.05 (1) |
| B-C    | -2587 / 0                 | -91.8                     | -91.8 0.78 (1)            | 3.47  | C-O                       | -881 / 0                  | 0.31 (1) |
| C-D    | -2013 / 0                 | -91.8                     | -91.8 0.68 (1)            | 3.97  | O-E                       | 0 / 458                   | 0.10 (1) |
| D-E    | -2013 / 0                 | -91.8                     | -91.8 0.68 (1)            | 3.97  | E-M                       | 0 / 2                     | 0.00 (1) |
| E-F    | -1775 / 0                 | -91.8                     | -91.8 0.24 (1)            | 4.79  | M-F                       | 0 / 460                   | 0.10 (1) |
| F-G    | -2013 / 0                 | -91.8                     | -91.8 0.68 (1)            | 3.97  | M-H                       | -880 / 0                  | 0.31 (1) |
| G-H    | -2013 / 0                 | -91.8                     | -91.8 0.68 (1)            | 3.97  | H-L                       | -142 / 70                 | 0.05 (1) |
| H-I    | -2587 / 0                 | -91.8                     | -91.8 0.78 (1)            | 3.47  | B-P                       | 0 / 2362                  | 0.53 (1) |
| I-J    | 0 / 28                    | -91.8                     | -91.8 0.12 (1)            | 10.00 | L-I                       | 0 / 2361                  | 0.53 (1) |
| Q-B    | -1830 / 0                 | 0.0                       | 0.0 0.18 (1)              | 6.19  |                           |                           |          |
| K-I    | -1830 / 0                 | 0.0                       | 0.0 0.18 (1)              | 6.19  |                           |                           |          |
| Q-P    | 0 / 0                     | -18.5                     | -18.5 0.22 (4)            | 10.00 |                           |                           |          |
| P-O    | 0 / 2344                  | -18.5                     | -18.5 0.48 (1)            | 10.00 |                           |                           |          |
| C-N    | 0 / 1774                  | -18.5                     | -18.5 0.35 (1)            | 10.00 |                           |                           |          |
| N-M    | 0 / 1774                  | -18.5                     | -18.5 0.35 (1)            | 10.00 |                           |                           |          |
| M-L    | 0 / 2344                  | -18.5                     | -18.5 0.48 (1)            | 10.00 |                           |                           |          |
| L-K    | 0 / 0                     | -18.5                     | -18.5 0.22 (4)            | 10.00 |                           |                           |          |

TOTAL WEIGHT = 131 lb

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|              |               |
|--------------|---------------|
| TOP CH.      | LL = 25.6 PSF |
| DL = 6.0 PSF |               |
| BOT CH.      | LL = 0.0 PSF  |
| DL = 7.4 PSF |               |
| TOTAL LOAD   | = 39.0 PSF    |

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) =  $L/360$  (1.06")  
CALCULATED VERT. DEFL.(LL) =  $L/999$  (0.12")  
ALLOWABLE DEFL.(TL) =  $L/360$  (1.06")  
CALCULATED VERT. DEFL.(TL) =  $L/999$  (0.24")

CSI: TC=0.78/1.00 (B-C:1), BC=0.48/1.00 (O-P:1), WB=0.53/1.00 (B-P:1), SS=0.28/1.00 (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 = 1.00

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

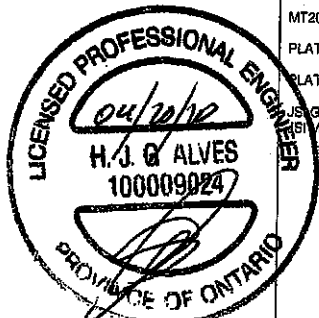
##### NAIL VALUES

| PLATE | GRIP(DRY) | SHEAR (PSI) | SECTION (PLI)      |
|-------|-----------|-------------|--------------------|
| MT20  | 618       | 354         | 1657 788 1987 1656 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

US GRIP= 0.88 (B) (INPUT= 0.90)  
SI METAL= 0.70 (B) (INPUT= 1.00)

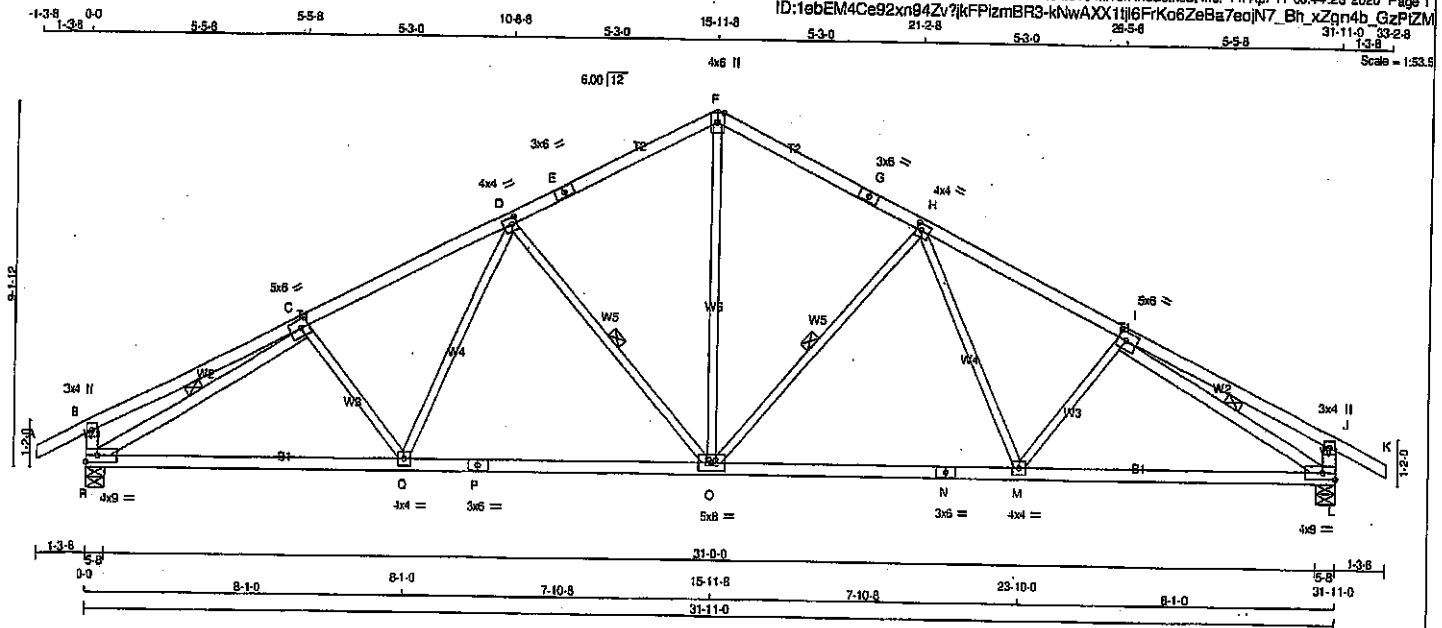


Structural component only  
DWG# T-2006492

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 408165   | T26        | 8        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MiTek Industries, Inc. Fri Apr 17 08:44:23 2020 Page 1  
ID:1ebEM4Ce92xn94Zv7kFPzmBR3-khwAXX1ij6FrKo6ZeBa7eojN7\_Bh\_xZgn4b\_GzPIZM  
25-5-6 31-11-0 33-2-8 1-3-8  
Scale = 1:53.5



#### LUMBER

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

##### CHORDS

| SIZE  | DRY | LUMBER | DESCR |
|-------|-----|--------|-------|
| A - E | 2x4 | No.2   | SPF   |
| E - F | 2x4 | No.2   | SPF   |
| F - G | 2x4 | No.2   | SPF   |
| G - K | 2x4 | No.2   | SPF   |
| R - B | 2x4 | No.2   | SPF   |
| L - J | 2x4 | No.2   | SPF   |
| R - P | 2x4 | No.2   | SPF   |
| P - N | 2x4 | No.2   | SPF   |
| N - L | 2x4 | No.2   | SPF   |

|          |     |     |      |     |
|----------|-----|-----|------|-----|
| ALL WEBS | 2x3 | DRY | No.2 | SPF |
| EXCEPT   |     |     |      |     |
| R - C    | 2x4 | DRY | No.2 | SPF |
| I - L    | 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   | 5.0 | 6.0 | 2.50 | 2.50 |
| D  | TMWW-1  | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| E  | TS-1    | MT20   | 3.0 | 6.0 |      |      |
| F  | TTW+p   | MT20   | 4.0 | 6.0 | Edge |      |
| G  | TS-1    | MT20   | 3.0 | 6.0 |      |      |
| H  | TMWW-1  | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| I  | TMWW-1  | MT20   | 5.0 | 6.0 | 2.50 | 2.50 |
| J  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| L  | BMVW1-1 | MT20   | 4.0 | 9.0 | Edge |      |
| M  | BMVW1-1 | MT20   | 4.0 | 4.0 |      |      |
| N  | BS-1    | MT20   | 3.0 | 6.0 |      |      |
| O  | BMVW1-1 | MT20   | 5.0 | 8.0 |      |      |
| P  | BS-1    | MT20   | 3.0 | 6.0 |      |      |
| Q  | BMVW1-1 | MT20   | 4.0 | 4.0 |      |      |
| R  | BMVW1-1 | MT20   | 4.0 | 9.0 | Edge |      |

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

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

##### BEARINGS

|    | FACTORED       | MAXIMUM FACTORED | INPUT  | REQD  |
|----|----------------|------------------|--------|-------|
|    | GROSS REACTION | GROSS REACTION   | BRG    | BRG   |
|    | VERT           | HORZ             | UPLIFT | IN-SX |
| JT | 1884           | 0                | 1884   | 0     |
| R  | 1884           | 0                | 1884   | 0     |
| L  | 1884           | 0                | 1884   | 0     |

##### UNFACTORED REACTIONS

| 1ST CASE | MAX/MIN  | COMPONENT REACTIONS |       |           |       |         |       |
|----------|----------|---------------------|-------|-----------|-------|---------|-------|
| JT       | COMBINED | SNOW                | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |
| R        | 1330     | 886 / 0             | 0 / 0 | 0 / 0     | 0 / 0 | 444 / 0 | 0 / 0 |
| L        | 1330     | 886 / 0             | 0 / 0 | 0 / 0     | 0 / 0 | 444 / 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 = 4.11 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF H-O, D-O, 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 | MEMB.     | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED HORIZ. LOAD (PLF) | MAX. FACTORED UNBRACED LENGTH (FT) | WESS | MEMB.     | MAX. FACTORED FORCE (LBS) | MAX. FACTORED HORIZ. LOAD (PLF) |
|--------|-----------|---------------------------|---------------------------|---------------------------------|------------------------------------|------|-----------|---------------------------|---------------------------------|
| FR-TO  |           |                           |                           |                                 |                                    |      |           |                           |                                 |
| A-B    | 0 / 28    | -91.8                     | -91.8                     | 0.12 (1)                        | 10.00                              | O-F  | 0 / 1211  | 0.27 (1)                  | 0.27 (1)                        |
| B-C    | 0 / 20    | -91.8                     | -91.8                     | 0.33 (1)                        | 10.00                              | O-H  | -701 / 0  | 0.32 (1)                  | 0.32 (1)                        |
| C-D    | -2428 / 0 | -91.8                     | -91.8                     | 0.37 (1)                        | 4.11                               | H-M  | 0 / 312   | 0.07 (1)                  | 0.07 (1)                        |
| D-E    | -1808 / 0 | -91.8                     | -91.8                     | 0.34 (1)                        | 4.65                               | M-I  | -156 / 21 | 0.05 (1)                  | 0.05 (1)                        |
| E-F    | -1808 / 0 | -91.8                     | -91.8                     | 0.34 (1)                        | 4.65                               | D-O  | -701 / 0  | 0.32 (1)                  | 0.32 (1)                        |
| F-G    | -1808 / 0 | -91.8                     | -91.8                     | 0.34 (1)                        | 4.65                               | Q-D  | 0 / 312   | 0.07 (1)                  | 0.07 (1)                        |
| G-H    | -1808 / 0 | -91.8                     | -91.8                     | 0.34 (1)                        | 4.65                               | C-Q  | -156 / 21 | 0.05 (1)                  | 0.05 (1)                        |
| H-I    | -2428 / 0 | -91.8                     | -91.8                     | 0.37 (1)                        | 4.11                               | R-C  | -2717 / 0 | 0.55 (1)                  | 0.55 (1)                        |
| I-J    | 0 / 20    | -91.8                     | -91.8                     | 0.33 (1)                        | 10.00                              | I-L  | -2717 / 0 | 0.55 (1)                  | 0.55 (1)                        |
| J-K    | 0 / 28    | -91.8                     | -91.8                     | 0.12 (1)                        | 10.00                              |      |           |                           |                                 |
| R-B    | -325 / 0  | 0.0                       | 0.0                       | 0.03 (1)                        | 7.81                               |      |           |                           |                                 |
| L-J    | -325 / 0  | 0.0                       | 0.0                       | 0.03 (1)                        | 7.81                               |      |           |                           |                                 |
| R-Q    | 0 / 2266  | -18.5                     | -18.5                     | 0.51 (1)                        | 10.00                              |      |           |                           |                                 |
| O-P    | 0 / 2051  | -18.5                     | -18.5                     | 0.48 (1)                        | 10.00                              |      |           |                           |                                 |
| P-O    | 0 / 2051  | -18.5                     | -18.5                     | 0.48 (1)                        | 10.00                              |      |           |                           |                                 |
| O-N    | 0 / 2051  | -18.5                     | -18.5                     | 0.48 (1)                        | 10.00                              |      |           |                           |                                 |
| N-M    | 0 / 2051  | -18.5                     | -18.5                     | 0.48 (1)                        | 10.00                              |      |           |                           |                                 |
| M-L    | 0 / 2266  | -18.5                     | -18.5                     | 0.51 (1)                        | 10.00                              |      |           |                           |                                 |

TOTAL WEIGHT = 8 X 133 = 1066 LB

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|                       |               |
|-----------------------|---------------|
| TOP CH.               | LL = 25.8 PSF |
| DL = 6.0 PSF          |               |
| BOT CH.               | LL = 0.0 PSF  |
| DL = 7.4 PSF          |               |
| TOTAL LOAD = 39.0 PSF |               |

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) =  $L/360$  (1.06')  
CALCULATED VERT. DEFL.(LL) =  $L/999$  (0.11')  
ALLOWABLE DEFL.(TL) =  $L/360$  (1.06')  
CALCULATED VERT. DEFL.(TL) =  $L/999$  (0.24')

CSI: TC=0.37/1.00 (H-I), BC=0.51/1.00 (L-M), WB=0.55/1.00 (H-L), SI=0.20/1.00 (I-J-I)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

##### NAIL VALUES

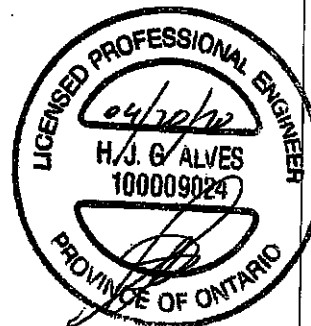
| PLATE GRIP(DRY) | SHEAR (PSI) | SECTION (PLI) |
|-----------------|-------------|---------------|
| MT20            | 618         | 354           |
| 1657            | 785         | 1987          |
| 1656            |             |               |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

JSI METAL= 0.67 (I) (INPUT = 1.00)

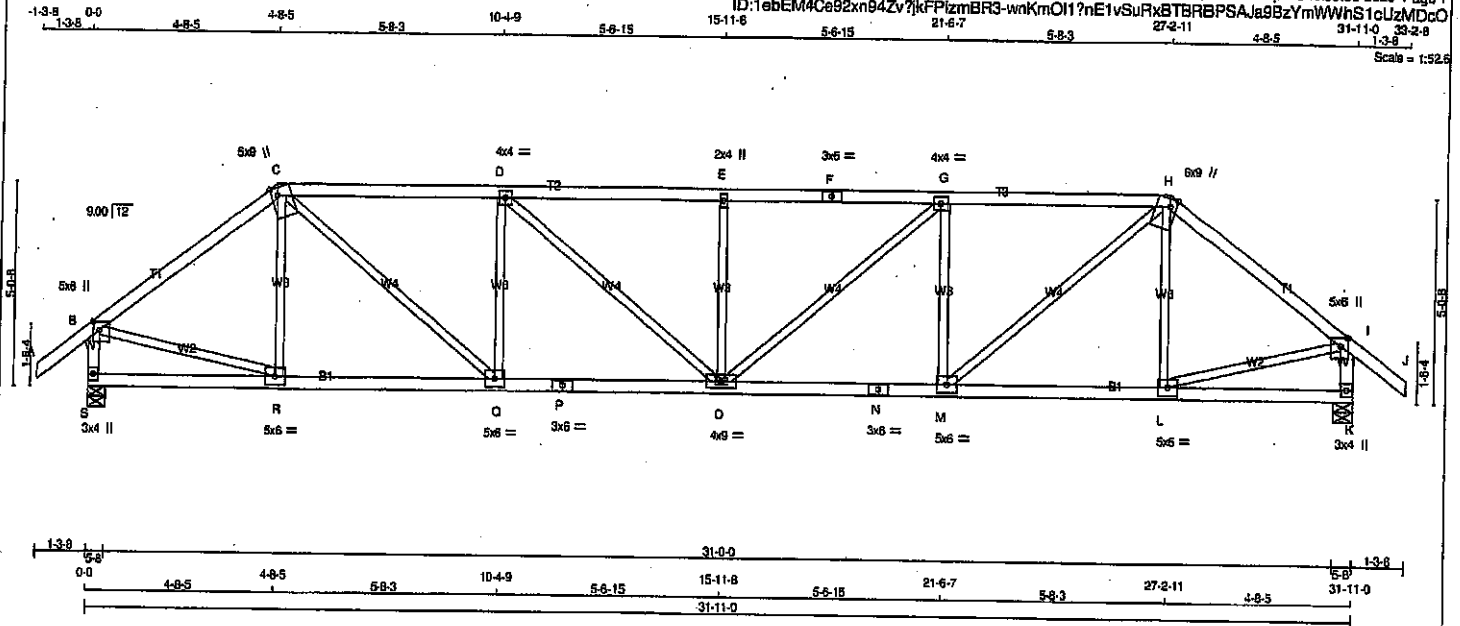


Structural component only  
DWG# T-2006493

|                           |                          |                      |                 |                                      |          |
|---------------------------|--------------------------|----------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>408164</b> | TRUSS NAME<br><b>T27</b> | QUANTITY<br><b>2</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREEN PARK HOMES</b> | DRWG NO. |
| TRUSS DESC.               |                          |                      |                 |                                      |          |

Tamrack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MTak Industries, Inc. Tue Apr 28 10:55:33 2020 Page 1  
ID:1ebEM4Ce92xn94Zv7jkFPizmBR3-wnKmO11?nE1vsuRxBTBRBPSAJa9BzYmWwHS1cUzMDcO



#### LUMBER

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

| CHORDS | SIZE | DRY | LUMBER |
|--------|------|-----|--------|
| A - C  | 2x4  | DRY | No.2   |
| C - F  | 2x4  | DRY | No.2   |
| F - H  | 2x4  | DRY | No.2   |
| H - J  | 2x4  | DRY | No.2   |
| J - L  | 2x4  | DRY | No.2   |
| L - M  | 2x4  | DRY | No.2   |
| M - N  | 2x4  | DRY | No.2   |
| N - K  | 2x4  | DRY | No.2   |

ALL WEBS 2x3 DRY No.2  
EXCEPT

DRY: SEASONED LUMBER.

#### PLATES (table in inches)

| JT TYPE   | PLATES | W   | LEN | Y    | X    |
|-----------|--------|-----|-----|------|------|
| B TMVW+p  | MT20   | 5.0 | 6.0 | 2.50 | 2.00 |
| C TTWW+m  | MT20   | 5.0 | 9.0 | Edge | 2.00 |
| D TMWW-t  | MT20   | 4.0 | 4.0 |      |      |
| E TMW+w   | MT20   | 2.0 | 4.0 |      |      |
| F TS-t    | MT20   | 3.0 | 6.0 |      |      |
| G TMWW-t  | MT20   | 4.0 | 4.0 |      |      |
| H TTWW+m  | MT20   | 6.0 | 9.0 | Edge | 2.00 |
| I TMVW+p  | MT20   | 5.0 | 6.0 | 2.50 | 2.00 |
| K BMV1+p  | MT20   | 3.0 | 4.0 |      |      |
| L M, Q, R |        |     |     |      |      |
| L BMWW-t  | MT20   | 5.0 | 6.0 |      |      |
| N BS-t    | MT20   | 3.0 | 6.0 |      |      |
| O BMWW-t  | MT20   | 4.0 | 9.0 |      |      |
| P BS-t    | MT20   | 3.0 | 6.0 |      |      |
| S 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 | 1885                    | 1885                            | 0         | 0        |
| S VERT  | 1885                    | 1885                            | 0         | 0        |
| K VERT  | 1885                    | 1885                            | 0         | 0        |

##### UNFACTORED REACTIONS

| 1ST LCASE   | MAX. MIN. COMPONENT REACTIONS |         |           |       |         |       |  |
|-------------|-------------------------------|---------|-----------|-------|---------|-------|--|
| JT COMBINED | SNOW                          | LIVE    | PERM.LIVE | WIND  | DEAD    | SOIL  |  |
| S           | 1331                          | 887 / 0 | 0 / 0     | 0 / 0 | 444 / 0 | 0 / 0 |  |
| K           | 1331                          | 887 / 0 | 0 / 0     | 0 / 0 | 444 / 0 | 0 / 0 |  |

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

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.42 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.

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                        | WEBS  |                           |                        |          |
|--------|---------------------------|---------------------------|------------------------|-------|---------------------------|------------------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED CSI (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED CSI (LC) |          |
| FR-TO  |                           |                           |                        | FR-TO |                           |                        |          |
| A-B    | 0 / 38                    | -91.8                     | -91.8 0.12 (1)         | 10.00 | R-C                       | -265 / 0               | 0.10 (1) |
| B-C    | -1885 / 0                 | -91.8                     | -91.8 0.45 (1)         | 4.42  | C-Q                       | 0 / 1515               | 0.34 (1) |
| C-D    | -2584 / 0                 | -91.8                     | -91.8 0.61 (1)         | 3.65  | Q-D                       | -868 / 0               | 0.32 (1) |
| D-E    | -3002 / 0                 | -91.8                     | -91.8 0.65 (1)         | 3.42  | D-O                       | 0 / 443                | 0.10 (1) |
| E-F    | -3002 / 0                 | -91.8                     | -91.8 0.65 (1)         | 3.42  | O-E                       | -472 / 0               | 0.18 (1) |
| F-G    | -3002 / 0                 | -91.8                     | -91.8 0.65 (1)         | 3.42  | G-O                       | 0 / 443                | 0.10 (1) |
| G-H    | -2584 / 0                 | -91.8                     | -91.8 0.61 (1)         | 3.65  | M-G                       | -868 / 0               | 0.32 (1) |
| H-I    | -1885 / 0                 | -91.8                     | -91.8 0.45 (1)         | 4.42  | M-H                       | 0 / 1515               | 0.34 (1) |
| I-J    | 0 / 38                    | -91.8                     | -91.8 0.12 (1)         | 10.00 | L-H                       | -265 / 0               | 0.10 (1) |
| S-B    | -1852 / 0                 | 0.0                       | 0.0 0.18 (1)           | 6.16  | B-R                       | 0 / 1552               | 0.35 (1) |
| K-I    | -1852 / 0                 | 0.0                       | 0.0 0.18 (1)           | 6.16  | L-I                       | 0 / 1552               | 0.35 (1) |

|     |          |       |                |       |
|-----|----------|-------|----------------|-------|
| S-R | 0 / 0    | -18.5 | -18.5 0.12 (4) | 10.00 |
| R-Q | 0 / 1800 | -18.5 | -18.5 0.31 (1) | 10.00 |
| Q-P | 0 / 2665 | -18.5 | -18.5 0.48 (1) | 10.00 |
| P-O | 0 / 2665 | -18.5 | -18.5 0.48 (1) | 10.00 |
| O-N | 0 / 2665 | -18.5 | -18.5 0.48 (1) | 10.00 |
| N-M | 0 / 2665 | -18.5 | -18.5 0.48 (1) | 10.00 |
| M-L | 0 / 1500 | -18.5 | -18.5 0.31 (1) | 10.00 |
| L-K | 0 / 0    | -18.5 | -18.5 0.12 (4) | 10.00 |

TOTAL WEIGHT = 2 X 130 = 261 lb

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |            |
|------------|------------|
| TOP CH. LL | = 25.6 PSF |
| DL         | = 6.0 PSF  |
| BOT CH. LL | = 0.0 PSF  |
| DL         | = 7.4 PSF  |
| TOTAL LOAD | = 39.0 PSF |

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF NBC 2010, NBC 2012, ABC 2019  
- PART 9 OF NBC 2012 (2019 AMENDMENT)  
- CSA 088-08, CSA 088-14  
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL. (LL) = L/360 (1.08")  
CALCULATED VERT. DEFL. (LL) = L/989 (0.15")  
ALLOWABLE DEFL. (TL) = L/360 (1.08")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.28")

CSI: TC=0.65/1.00 (D-E:1), BC=0.48/1.00 (O-Q:1), WB=0.35/1.00 (B-R:1), SSI=0.24/1.00 (C-D:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10

COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

#### NAIL VALUES

| PLATE GRIP (DRY) | SHEAR                      | SECTION |
|------------------|----------------------------|---------|
| (PSI)            | (PL)                       | (PL)    |
| MAX MIN          | MAX MIN                    | MAX MIN |
| MT20             | 618 354 1667 788 1987 1658 |         |

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.90 (B) (INPUT = 0.90 )  
JSI METAL= 0.61 (P) (INPUT = 1.00 )



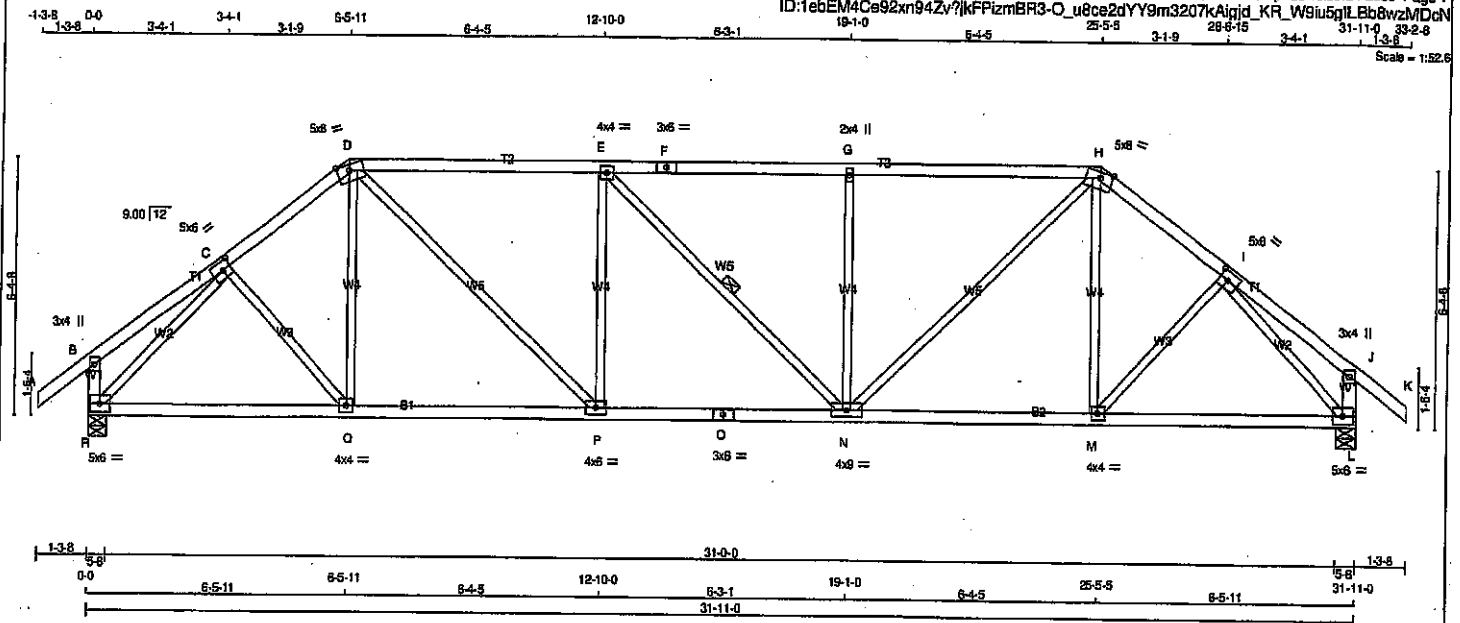
Structural component only  
DWG# T-2007733

|                                 |                          |                      |                 |                                      |          |
|---------------------------------|--------------------------|----------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>408164</b>       | TRUSS NAME<br><b>T28</b> | QUANTITY<br><b>2</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREEN PARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 |                                      |          |

Version 8.310 S Oct 29 2019 MITek Industries, Inc. Tue Apr 28 10:55:34 2020 Page 1

ID:1ebEM4Ce92xn94Zv7kFPzMBR3-O\_u8ce2dYY9m3207kAigjd\_KR\_W9iu5pLLBb8wzMDcN

Scale = 1:52.6



| 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 - H  | 2x4               | DRY    | No.2 | SPF |        |        |
| H - K  | 2x4               | DRY    | No.2 | SPF |        |        |
| R - B  | 2x4               | DRY    | No.2 | SPF |        |        |
| L - J  | 2x4               | DRY    | No.2 | SPF |        |        |
| R - O  | 2x4               | DRY    | No.2 | SPF |        |        |
| O - L  | 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   | 5.0 | 5.0 | 2.50      | 2.75 |
| D                           | TTWW-m  | MT20   | 5.0 | 5.0 | Edge 3.50 |      |
| E                           | TMVW-t  | MT20   | 4.0 | 4.0 |           |      |
| F                           | TS-t    | MT20   | 3.0 | 6.0 |           |      |
| G                           | TMVW-t  | MT20   | 2.0 | 4.0 |           |      |
| H                           | TTWW-m  | MT20   | 5.0 | 5.0 | Edge 3.50 |      |
| I                           | TMVW-t  | MT20   | 5.0 | 6.0 | 2.50      | 2.75 |
| J                           | TMV-p   | MT20   | 3.0 | 4.0 |           |      |
| L                           | BMVW-t  | MT20   | 5.0 | 6.0 |           |      |
| M                           | BMVW-t  | MT20   | 4.0 | 4.0 |           |      |
| N                           | BMVW-t  | MT20   | 4.0 | 9.0 |           |      |
| O                           | BS-t    | MT20   | 3.0 | 6.0 |           |      |
| P                           | BMVW-t  | MT20   | 4.0 | 6.0 |           |      |
| Q                           | BMVW-t  | MT20   | 4.0 | 4.0 |           |      |
| R                           | BMVW-t  | MT20   | 5.0 | 6.0 |           |      |

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

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

| BEARINGS | FACTORED       | MAXIMUM FACTORED | INPUT | REQD  |
|----------|----------------|------------------|-------|-------|
|          | GROSS REACTION | GROSS REACTION   | BRG.  | BRG   |
| JT       | VERT           | DOWN             | UP    | IN-SX |
| R        | 1888           | 0                | 1888  | 0     |
| L        | 1888           | 0                | 1888  | 0     |

| UNFACTORED REACTIONS | 1ST CASE | MAX. MIN. COMPONENT REACTIONS       |
|----------------------|----------|-------------------------------------|
|                      | COMBINED | SNOW LIVE PERM. LIVE WIND DEAD SOIL |
| R                    | 1331     | 897 / 0 0 / 0 0 / 0 444 / 0 0 / 0   |
| L                    | 1331     | 897 / 0 0 / 0 0 / 0 444 / 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 = 3.78 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

| LOADING | CHORDS | MEMB.     | MAX. FACTORED FORCE (LBS) | VERT. LOAD (PLF) | LC1 MAX (CSI (L)) | UNBRACED LENGTH (FT) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. (CSI (L)) |
|---------|--------|-----------|---------------------------|------------------|-------------------|----------------------|-------|---------------------------|----------------|
|         | FR-TO  |           |                           |                  |                   |                      | FR-TO |                           |                |
|         | A-B    | 0 / 38    | -91.8                     | -91.8            | 0.12 (1)          | 10.00                | C-Q   | 0 / 131                   | 0.03 (4)       |
|         | B-C    | 0 / 18    | -91.8                     | -91.8            | 0.13 (1)          | 10.00                | Q-D   | 0 / 88                    | 0.03 (4)       |
|         | C-D    | -1910 / 0 | -91.8                     | -91.8            | 0.18 (1)          | 4.71                 | D-P   | 0 / 1071                  | 0.24 (1)       |
|         | D-E    | -2288 / 0 | -91.8                     | -91.8            | 0.89 (1)          | 3.78                 | P-E   | -627 / 0                  | 0.41 (1)       |
|         | E-F    | -2284 / 0 | -91.8                     | -91.8            | 0.89 (1)          | 3.78                 | E-N   | -2 / 0                    | 0.00 (1)       |
|         | F-G    | -2284 / 0 | -91.8                     | -91.8            | 0.89 (1)          | 3.78                 | N-G   | -627 / 0                  | 0.41 (1)       |
|         | G-H    | -2284 / 0 | -91.8                     | -91.8            | 0.89 (1)          | 3.80                 | H-N   | 0 / 1069                  | 0.24 (1)       |
|         | H-I    | -1910 / 0 | -91.8                     | -91.8            | 0.18 (1)          | 4.71                 | M-H   | 0 / 88                    | 0.03 (4)       |
|         | I-J    | 0 / 18    | -91.8                     | -91.8            | 0.13 (1)          | 10.00                | M-I   | 0 / 131                   | 0.03 (4)       |
|         | J-K    | 0 / 38    | -91.8                     | -91.8            | 0.12 (1)          | 10.00                | R-C   | -2134 / 0                 | 0.79 (1)       |
|         | R-B    | -245 / 0  | 0.0                       | 0.0              | 0.03 (1)          | 7.81                 | I-L   | -2134 / 0                 | 0.79 (1)       |
|         | L-J    | -245 / 0  | 0.0                       | 0.0              | 0.03 (1)          | 7.81                 |       |                           |                |

|     |          |       |       |          |       |
|-----|----------|-------|-------|----------|-------|
| R-Q | 0 / 1420 | -18.5 | -18.5 | 0.33 (1) | 10.00 |
| Q-P | 0 / 1510 | -18.5 | -18.5 | 0.35 (1) | 10.00 |
| P-O | 0 / 2286 | -18.5 | -18.5 | 0.43 (1) | 10.00 |
| O-N | 0 / 2286 | -18.5 | -18.5 | 0.43 (1) | 10.00 |
| N-M | 0 / 1511 | -18.5 | -18.5 | 0.35 (1) | 10.00 |
| M-L | 0 / 1421 | -18.5 | -18.5 | 0.33 (1) | 10.00 |

TOTAL WEIGHT = 2 X 137 = 274 lb

### DESIGN CRITERIA

#### SPECIFIED LOADS:

|            |           |     |
|------------|-----------|-----|
| TOP CH.    | LL = 25.8 | PSF |
|            | DL = 6.0  | PSF |
| BOT CH.    | LL = 0.0  | PSF |
|            | DL = 7.4  | PSF |
| TOTAL LOAD | = 39.0    | PSF |

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBCO 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CBA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (1.06")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.10")  
ALLOWABLE DEFL.(TL) = L/360 (1.06")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.21")

CSI: TC=0.59/1.00 (D-E-1), BC=0.43/1.00 (N-P-1), WB=0.79/1.00 (I-L-1), SS=0.27/1.00 (D-E-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

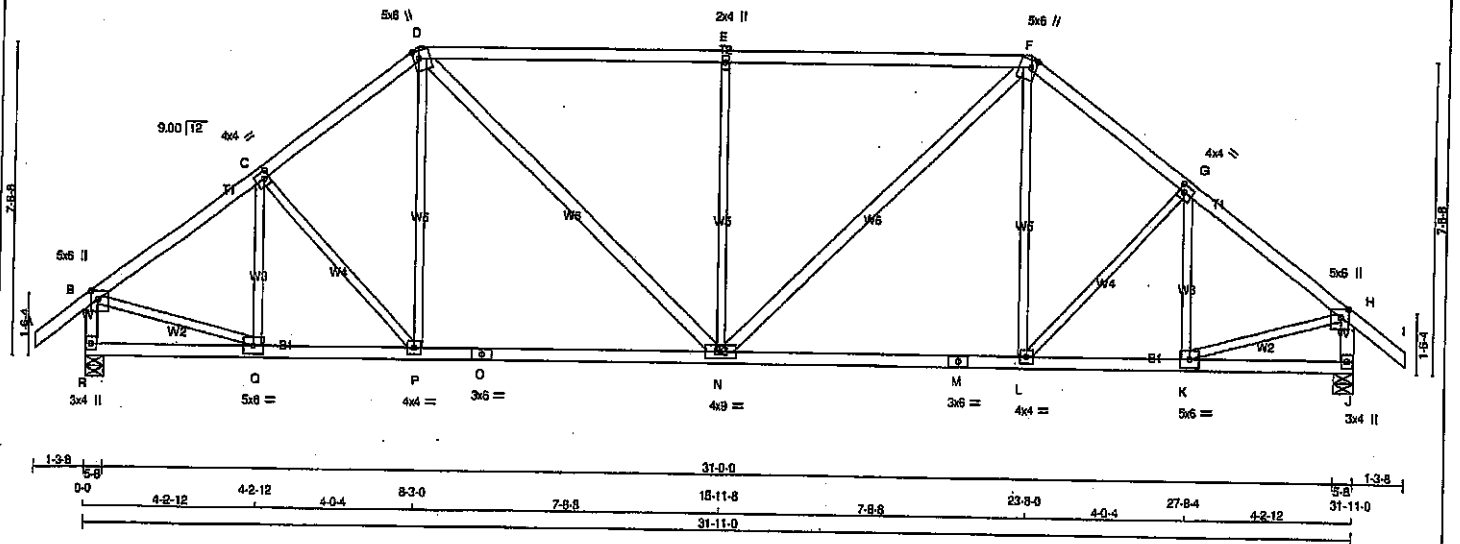
JSI GRIP= 0.87 (L) (INPUT = 0.90)  
JSI METAL= 0.78 (C) (INPUT = 1.00)



Structural component only  
DWG# T-2007734

|                                 |            |          |     |                  |          |
|---------------------------------|------------|----------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408164                          | T29        | 2        | 1   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            |          |     |                  |          |

Version 8.310 S Oct 28 2019 Mitek Industries, Inc. Tue Apr 28 10:55:35 2020 Page 1  
ID:1ebEM4Ce92xn94Zv7kFpizmBR3-IASWp\_2FJrHdnBbJluDvGqXT4OtkRjnp\_7x8gNzMDcm  
31-11-0 33-2-8  
Scale = 1:52.6



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

DRY: SEASONED LUMBER.

| PLATES (table is in inches) | JT TYPE | PLATES | W   | LEN | Y    | X    |
|-----------------------------|---------|--------|-----|-----|------|------|
| B                           | TMVW-p  | MT20   | 5.0 | 6.0 | 2.50 | 2.00 |
| C                           | TMVW-t  | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| D                           | TMVW-m  | MT20   | 5.0 | 6.0 | 2.25 | 1.50 |
| E                           | TMVW-w  | MT20   | 2.0 | 4.0 |      |      |
| F                           | TTVW-m  | MT20   | 5.0 | 6.0 | 2.25 | 1.50 |
| G                           | TMVW-t  | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| H                           | TMVW-p  | MT20   | 5.0 | 6.0 | 2.50 | 2.00 |
| J                           | BMV1-p  | MT20   | 3.0 | 4.0 |      |      |
| K                           | BMVW-t  | MT20   | 5.0 | 6.0 |      |      |
| L                           | BMVW-t  | MT20   | 4.0 | 4.0 |      |      |
| M                           | BS-t    | MT20   | 3.0 | 6.0 |      |      |
| N                           | BMVW-t  | MT20   | 4.0 | 9.0 |      |      |
| O                           | BS-t    | MT20   | 3.0 | 6.0 |      |      |
| P                           | BMVW-t  | MT20   | 4.0 | 4.0 |      |      |
| Q                           | BMVW-t  | MT20   | 5.0 | 6.0 |      |      |
| R                           | BMV1-p  | MT20   | 3.0 | 4.0 |      |      |

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

| BEARINGS | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----------|-------------------------|---------------------------------|-----------|----------|
| JT       | VERT                    | HORZ                            | DOWN      | HORZ     |
| R        | 1888                    | 0                               | 1888      | 0        |
| J        | 1888                    | 0                               | 1888      | 0        |

| UNFACTORED REACTIONS | 1ST LCASE | MAX/MIN. COMPONENT REACTIONS |
|----------------------|-----------|------------------------------|
| JT                   | COMBINED  | SNOW                         |
| R                    | 1231      | 887 / 0                      |
| J                    | 1231      | 887 / 0                      |

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

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.61 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

| CHORDS | MEMB.     | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (PLF) |
|--------|-----------|---------------------------|---------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| FR-TO  |           |                           |                           |                                |                                |                                |                                |                                |                                |
| A-B    | 0 / 38    |                           |                           |                                |                                |                                |                                |                                |                                |
| B-C    | -1877 / 0 |                           |                           |                                |                                |                                |                                |                                |                                |
| C-D    | -1858 / 0 |                           |                           |                                |                                |                                |                                |                                |                                |
| D-E    | -1935 / 0 |                           |                           |                                |                                |                                |                                |                                |                                |
| E-F    | -1935 / 0 |                           |                           |                                |                                |                                |                                |                                |                                |
| F-G    | -1858 / 0 |                           |                           |                                |                                |                                |                                |                                |                                |
| G-H    | -1877 / 0 |                           |                           |                                |                                |                                |                                |                                |                                |
| H-I    | 0 / 38    |                           |                           |                                |                                |                                |                                |                                |                                |
| I-B    | -1849 / 0 |                           |                           |                                |                                |                                |                                |                                |                                |
| J-H    | -1849 / 0 |                           |                           |                                |                                |                                |                                |                                |                                |
| R-Q    | 0 / 0     |                           |                           |                                |                                |                                |                                |                                |                                |
| Q-P    | 0 / 1522  |                           |                           |                                |                                |                                |                                |                                |                                |
| P-O    | 0 / 1465  |                           |                           |                                |                                |                                |                                |                                |                                |
| O-N    | 0 / 1465  |                           |                           |                                |                                |                                |                                |                                |                                |
| N-M    | 0 / 1465  |                           |                           |                                |                                |                                |                                |                                |                                |
| M-L    | 0 / 1465  |                           |                           |                                |                                |                                |                                |                                |                                |
| L-K    | 0 / 1522  |                           |                           |                                |                                |                                |                                |                                |                                |
| K-J    | 0 / 0     |                           |                           |                                |                                |                                |                                |                                |                                |

### DESIGN CRITERIA

**SPECIFIED LOADS:**  
TOP CH. LL = 25.6 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 39.0 PSF

**SPACING = 24.0 IN/C**

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

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF NBCC 2010, CBC 2012, ABC 2019  
- PART 9 OF CBC 2012 (2019 AMENDMENT)  
- CSA 086-09, CSA 086-14  
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL. (LL) = L/360 (1.08")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.09")  
ALLOWABLE DEFL. (TL) = L/360 (1.08")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.17")

CSI: TO=0.82/1.00 (D-E-1), BC=0.38/1.00 (N-P-1), WB=0.66/1.00 (E-N-1), SSI=0.34/1.00 (D-E-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

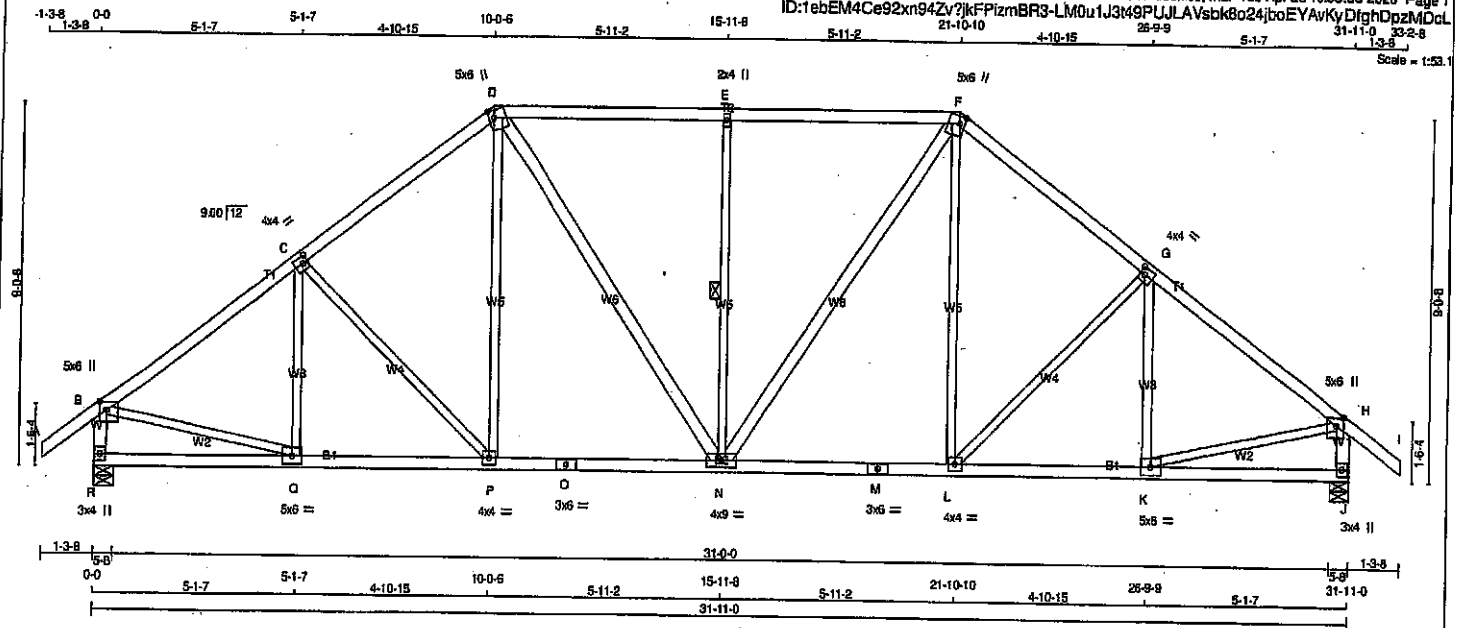
JSI GRIP=0.90 (B) (INPUT=0.90)  
JSI METAL=0.46 (O) (INPUT=1.00)



Structural component only  
DWG# T-2007735

|                                 |            |          |     |                  |          |
|---------------------------------|------------|----------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408164                          | T30        | 2        | 1   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            |          |     | TRUSS DESC.      |          |

Version 8.310 S Oct 28 2019 MTEK Industries, Inc. Tue Apr 28 10:55:38 2020 Page 1  
ID:1ebEM4Ce92xn94Zv?kFPizmBR3-LM0u1J3M9PUJLAVsbk8o24jboEYAvKyDlghDpzMdOL  
31-11-0 33-2-8 1-3-8



#### LUMBER

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

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

|          |     |     |      |
|----------|-----|-----|------|
| ALL WEBS | 2x3 | DRY | No.2 |
| EXCEPT   |     |     |      |
| D - N    | 2x4 | DRY | No.2 |
| N - F    | 2x4 | DRY | No.2 |

DRY: SEASONED LUMBER.

#### PLATES (Table is in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMVW-p | MT20   | 5.0 | 8.0 | 2.50 | 2.00 |
| C  | TMVW-l | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| D  | TTWW-m | MT20   | 5.0 | 6.0 | 2.25 | 1.50 |
| E  | TMW-w  | MT20   | 2.0 | 4.0 |      |      |
| F  | TTWW-m | MT20   | 5.0 | 6.0 | 2.25 | 1.50 |
| G  | TMVW-l | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| H  | TMVW-p | MT20   | 5.0 | 6.0 | 2.50 | 2.00 |
| J  | BMV1-p | MT20   | 3.0 | 4.0 |      |      |
| K  | BMVW-l | MT20   | 5.0 | 6.0 |      |      |
| L  | BMVW-l | MT20   | 4.0 | 4.0 |      |      |
| M  | BS-l   | MT20   | 3.0 | 6.0 |      |      |
| N  | BMVW-l | MT20   | 4.0 | 9.0 |      |      |
| O  | BS-l   | MT20   | 3.0 | 6.0 |      |      |
| P  | BMVW-l | MT20   | 4.0 | 4.0 |      |      |
| Q  | BMVW-l | MT20   | 5.0 | 6.0 |      |      |
| R  | BMV1-p | MT20   | 3.0 | 4.0 |      |      |

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

##### BEARINGS

|    | FACTORED       | MAXIMUM FACTORED | INPUT | RECORD  |
|----|----------------|------------------|-------|---------|
|    | GROSS REACTION | GROSS REACTION   | BRG   | BRG     |
| JT | VERT           | HORZ             | DOWN  | UP/LIFT |
| R  | 1886           | 0                | 1886  | 0       |
| J  | 1886           | 0                | 1886  | 0       |

##### UNFACTORED REACTIONS

| 1ST CASE | MAX/MIN. COMPONENT REACTIONS |         |       |            |       |         |       |
|----------|------------------------------|---------|-------|------------|-------|---------|-------|
| JT       | COMBINED                     | SNOW    | LIVE  | PERM. LIVE | WIND  | DEAD    | SOIL  |
| R        | 1331                         | 887 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 444 / 0 | 0 / 0 |
| J        | 1331                         | 887 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 444 / 0 | 0 / 0 |

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

##### BRACING

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

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

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

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) | VERT. LOAD (PLF) | MAX. FACTORED (CSI) (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED (CSI) (LC) |          |
| FR-TO  |                           | FROM TO          |                          | FR-TO |                           |                          |          |
| A-B    | 0 / 38                    | -91.8            | -91.8 0.12 (1)           | 10.00 | Q-C                       | -266 / 0                 | 0.11 (1) |
| B-C    | -1923 / 0                 | -91.8            | -91.8 0.36 (1)           | 4.52  | Q-P                       | -249 / 0                 | 0.24 (1) |
| C-D    | -1772 / 0                 | -91.8            | -91.8 0.34 (1)           | 4.88  | P-D                       | 0 / 277                  | 0.06 (1) |
| D-E    | -1655 / 0                 | -91.8            | -91.8 0.46 (1)           | 4.63  | D-N                       | 0 / 469                  | 0.08 (1) |
| E-F    | -1655 / 0                 | -91.8            | -91.8 0.46 (1)           | 4.63  | N-E                       | -986 / 0                 | 0.35 (1) |
| F-G    | -1772 / 0                 | -91.8            | -91.8 0.46 (1)           | 4.88  | N-F                       | 0 / 469                  | 0.08 (1) |
| G-H    | -1923 / 0                 | -91.8            | -91.8 0.36 (1)           | 4.52  | L-F                       | 0 / 277                  | 0.06 (1) |
| H-I    | 0 / 38                    | -91.8            | -91.8 0.12 (1)           | 10.00 | L-G                       | -249 / 0                 | 0.24 (1) |
| R-B    | -1845 / 0                 | 0.0              | 0.0 0.19 (1)             | 6.16  | K-G                       | -266 / 0                 | 0.11 (1) |
| J-H    | -1845 / 0                 | 0.0              | 0.0 0.19 (1)             | 6.16  | B-Q                       | 0 / 1806                 | 0.26 (1) |
|        |                           |                  |                          |       | K-H                       | 0 / 1806                 | 0.26 (1) |
| R-Q    | 0 / 0                     | -18.5            | -18.5 0.10 (4)           | 10.00 |                           |                          |          |
| Q-P    | 0 / 1564                  | -18.5            | -18.5 0.31 (1)           | 10.00 |                           |                          |          |
| P-O    | 0 / 1391                  | -18.5            | -18.5 0.23 (1)           | 10.00 |                           |                          |          |
| O-N    | 0 / 1391                  | -18.5            | -18.5 0.23 (1)           | 10.00 |                           |                          |          |
| N-M    | 0 / 1391                  | -18.5            | -18.5 0.23 (1)           | 10.00 |                           |                          |          |
| M-L    | 0 / 1391                  | -18.5            | -18.5 0.23 (1)           | 10.00 |                           |                          |          |
| L-K    | 0 / 1584                  | -18.5            | -18.5 0.31 (1)           | 10.00 |                           |                          |          |
| K-J    | 0 / 0                     | -18.5            | -18.5 0.10 (4)           | 10.00 |                           |                          |          |

TOTAL WEIGHT = 2 X 156 = 311 lb

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |            |
|------------|------------|
| TOP CH. LL | = 25.6 PSF |
| DL         | = 6.0 PSF  |
| BOT CH. LL | = 0.0 PSF  |
| DL         | = 7.4 PSF  |
| TOTAL LOAD | = 39.0 PSF |

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF NBC 2010, NBC 2012, ABC 2019  
- PART 9 OF NBC 2012 (2019 AMENDMENT)  
- CSA 086-08, CSA 086-14  
- TPIC 2011, TPIC 2014

(65 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.06")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")  
ALLOWABLE DEFL.(TL) = L/360 (1.06")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.13")  
CSI: TC=0.46/1.00 (E-F:1), BC=0.31/1.00 (P-Q:1), WB=0.36/1.00 (B-Q:1), SS=0.26/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

##### NAIL VALUES

| PLATE   | GRIP(DRY) | SHEAR (FS) | SECTION (PL) |
|---------|-----------|------------|--------------|
|         |           |            |              |
| MAX MIN | MAX MIN   | MAX MIN    | MAX MIN      |
| MT20    | 618 354   | 1667 788   | 1987 1656    |

PLATE PLACEMENT TOL. = 0.250 inches

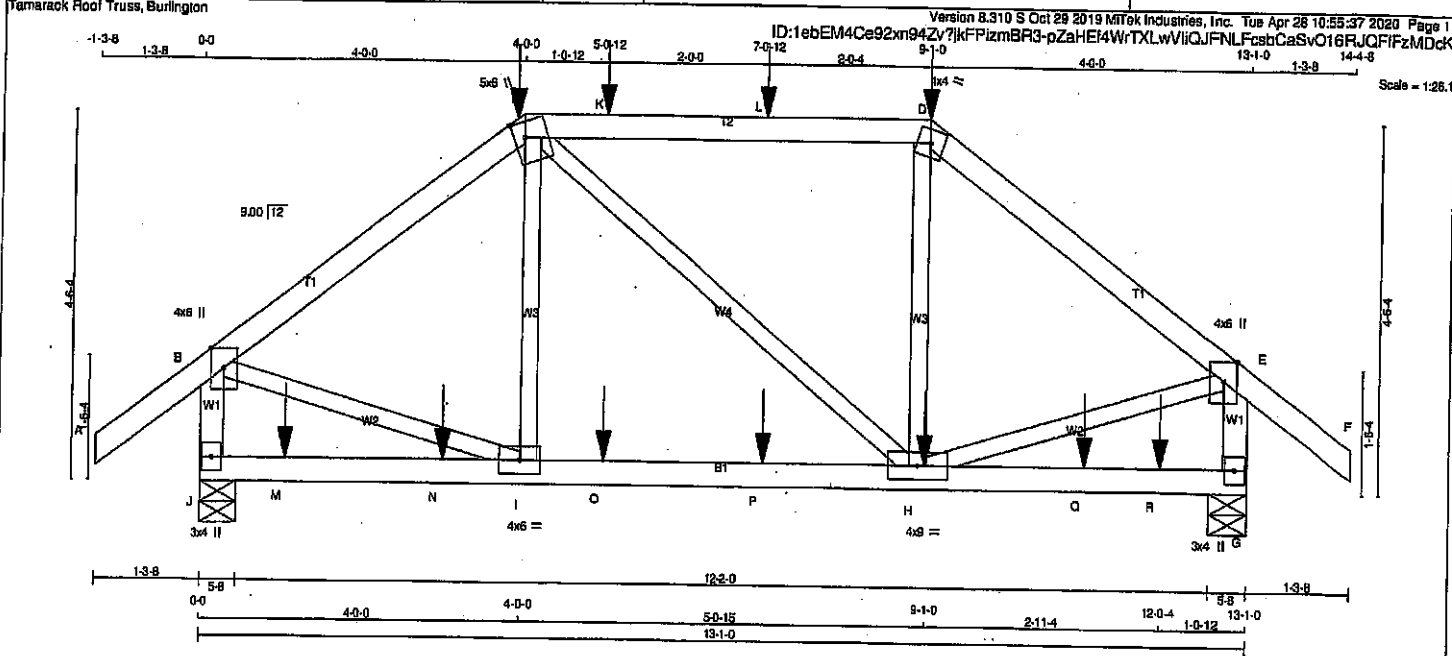
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (B) (INPUT = 0.90)  
JSI METAL= 0.45 (C) (INPUT = 1.00)



Structural component only  
DWG# T-2007736

|                                 |                          |                      |                 |                                      |          |
|---------------------------------|--------------------------|----------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>408164</b>       | TRUSS NAME<br><b>T31</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREEN PARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 |                                      |          |



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

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

| PLATES (Tables in inches) | JT TYPE | PLATES | W   | LEN | Y    | X    |
|---------------------------|---------|--------|-----|-----|------|------|
| B                         | TMVW+p  | MT20   | 4.0 | 6.0 | Edge |      |
| C                         | TTWW+m  | MT20   | 5.0 | 8.0 | 2.25 | 1.50 |
| D                         | TTWW-m  | MT20   | 4.0 | 4.0 |      |      |
| E                         | TMVW+p  | MT20   | 4.0 | 6.0 | Edge |      |
| G                         | BMV1+p  | MT20   | 3.0 | 4.0 |      |      |
| H                         | BMVWW-1 | MT20   | 4.0 | 9.0 |      |      |
| I                         | BMVWW-1 | MT20   | 4.0 | 6.0 |      |      |
| J                         | BMV1+p  | MT20   | 3.0 | 4.0 |      |      |

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

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

| BEARINGS |                | FACTORED |      | MAXIMUM FACTORED |      | INPUT |     | RECORD |       |
|----------|----------------|----------|------|------------------|------|-------|-----|--------|-------|
| JT       | GROSS REACTION | VERT     | HORZ | DOWN             | HORZ | BRG   | BRG | IN-SX  | IN-SX |
| J        | 1153           | 0        | 1153 | 0                | 0    | 5-8   | 5-8 |        |       |
| G        | 1177           | 0        | 1177 | 0                | 0    | 5-8   | 5-8 |        |       |

| UNFACTORED REACTIONS |          | MAX. MIN. COMPONENT REACTIONS |       |            |       |         |       |
|----------------------|----------|-------------------------------|-------|------------|-------|---------|-------|
| JT                   | 1ST CASE | SNOW                          | LIVE  | PERM. LIVE | WIND  | DEAD    | SOIL  |
| J                    | 813      | 547 / 0                       | 0 / 0 | 0 / 0      | 0 / 0 | 288 / 0 | 0 / 0 |
| G                    | 831      | 558 / 0                       | 0 / 0 | 0 / 0      | 0 / 0 | 275 / 0 | 0 / 0 |

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

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.63 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

### LOADING

TOTAL LOAD CASES: (4)

| MEMB. |           | MAX. FACTORED FORCE (LBS) |       | FACTORED VERT. LOAD (PLF) |          | MAX. CSI (LC) |       | WEBS  |  | MAX. FACTORED FORCE (LBS) |  | MAX. CSI (LC) |  |
|-------|-----------|---------------------------|-------|---------------------------|----------|---------------|-------|-------|--|---------------------------|--|---------------|--|
| FR-TO |           |                           |       | FROM TO                   |          |               |       | MEMB. |  |                           |  |               |  |
| A-B   | 0 / 38    |                           |       | -91.8                     | -91.8    | 0.14 (1)      | 10.00 | I-C   |  | -89 / 64                  |  | 0.03 (1)      |  |
| B-C   | -962 / 0  |                           |       | -91.8                     | -91.8    | 0.30 (1)      | 5.91  | C-H   |  | 0 / 25                    |  | 0.01 (1)      |  |
| C-K   | -785 / 0  |                           |       | -91.8                     | -91.8    | 0.63 (1)      | 5.63  | H-D   |  | -117 / 61                 |  | 0.04 (1)      |  |
| K-L   | -785 / 0  |                           |       | -91.8                     | -91.8    | 0.63 (1)      | 5.63  | D-I   |  | 0 / 800                   |  | 0.20 (1)      |  |
| L-D   | -785 / 0  |                           |       | -91.8                     | -91.8    | 0.63 (1)      | 5.63  | I-E   |  | 0 / 820                   |  | 0.20 (1)      |  |
| D-E   | -987 / 0  |                           |       | -91.8                     | -91.8    | 0.30 (1)      | 5.85  |       |  |                           |  |               |  |
| E-F   | 0 / 38    |                           |       | -91.8                     | -91.8    | 0.14 (1)      | 10.00 |       |  |                           |  |               |  |
| J-B   | -1113 / 0 |                           | 0.0   | 0.0                       | 0.0      | 0.13 (1)      | 7.48  |       |  |                           |  |               |  |
| G-E   | -1133 / 0 |                           | 0.0   | 0.0                       | 0.0      | 0.13 (1)      | 7.43  |       |  |                           |  |               |  |
| J-M   | 0 / 0     |                           | -18.5 | -18.5                     | 0.13 (4) | 10.00         |       |       |  |                           |  |               |  |
| M-N   | 0 / 0     |                           | -18.5 | -18.5                     | 0.13 (4) | 10.00         |       |       |  |                           |  |               |  |
| N-I   | 0 / 0     |                           | -18.5 | -18.5                     | 0.13 (4) | 10.00         |       |       |  |                           |  |               |  |
| I-O   | 0 / 768   |                           | -18.5 | -18.5                     | 0.20 (1) | 10.00         |       |       |  |                           |  |               |  |
| O-P   | 0 / 768   |                           | -18.5 | -18.5                     | 0.20 (1) | 10.00         |       |       |  |                           |  |               |  |
| P-H   | 0 / 768   |                           | -18.5 | -18.5                     | 0.20 (1) | 10.00         |       |       |  |                           |  |               |  |
| H-Q   | 0 / 0     |                           | -18.5 | -18.5                     | 0.13 (4) | 10.00         |       |       |  |                           |  |               |  |
| Q-R   | 0 / 0     |                           | -18.5 | -18.5                     | 0.13 (4) | 10.00         |       |       |  |                           |  |               |  |
| R-G   | 0 / 0     |                           | -18.5 | -18.5                     | 0.13 (4) | 10.00         |       |       |  |                           |  |               |  |

| FACTORED CONCENTRATED LOADS (LBS) |         | MAX. MAX+ |      | FACE DIR. |       | TYPE |       | HEEL |  | CONN. |    |
|-----------------------------------|---------|-----------|------|-----------|-------|------|-------|------|--|-------|----|
| JT                                | LOC.    | LC1       | MAX- | MAX+      | FRONT | VERT | DEAD  | SNOW |  |       |    |
| C                                 | 4-0-0   | -31       | -35  |           | FRONT | VERT | DEAD  | SNOW |  |       | C1 |
| D                                 | 4-0-0   | -135      | -135 |           | FRONT | VERT | DEAD  | SNOW |  |       | C1 |
| C                                 | 9-1-0   | -31       | -35  |           | FRONT | VERT | DEAD  | SNOW |  |       | C1 |
| D                                 | 9-1-0   | -74       | -74  |           | BACK  | VERT | TOTAL |      |  |       | C1 |
| D                                 | 9-1-0   | -135      | -135 |           | FRONT | VERT | TOTAL |      |  |       | C1 |
| H                                 | 9-0-12  | -13       | -13  |           | BACK  | VERT | TOTAL |      |  |       | C1 |
| K                                 | 5-0-12  | -67       | -67  |           | BACK  | VERT | TOTAL |      |  |       | C1 |
| L                                 | 7-0-12  | -67       | -67  |           | BACK  | VERT | TOTAL |      |  |       | C1 |
| M                                 | 1-0-12  | -13       | -13  |           | BACK  | VERT | TOTAL |      |  |       | C1 |
| N                                 | 3-0-12  | -13       | -13  |           | BACK  | VERT | TOTAL |      |  |       | C1 |
| O                                 | 5-0-12  | -13       | -13  |           | BACK  | VERT | TOTAL |      |  |       | C1 |
| P                                 | 7-0-12  | -13       | -13  |           | BACK  | VERT | TOTAL |      |  |       | C1 |
| Q                                 | 11-0-12 | -13       | -13  |           | BACK  | VERT | TOTAL |      |  |       | C1 |
| R                                 | 12-0-4  | -13       | -13  |           | BACK  | VERT | TOTAL |      |  |       | C1 |

### CONNECTION REQUIREMENTS

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

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

**SPECIFIED LOADS:**  
TOP CH. LL = 25.6 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 39.0 PSF

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

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

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

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF CBC 2018, CBC 2012, ABC 2019  
- PART 9 OF CBC 2012 (2019 AMENDMENT)  
- CSA 086-09, CSA 086-14  
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL. (LL) = L/360 (0.44")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.01")  
ALLOWABLE DEFL. (TL) = L/360 (0.44")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.03")

CSI: TC=0.83/1.00 (C-D:1), BC=0.20/1.00 (H-I:1), WB=0.20/1.00 (E-H: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 = 1.00

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

**NAIL VALUES**  
PLATE GRIP (DRY) SHEAR. SECTION (PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1887 789 1987 1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.83 (E) (INPUT = 0.90)  
JSI METAL = 0.52 (E) (INPUT = 1.00)



Structural component only  
DWG# T-2007737

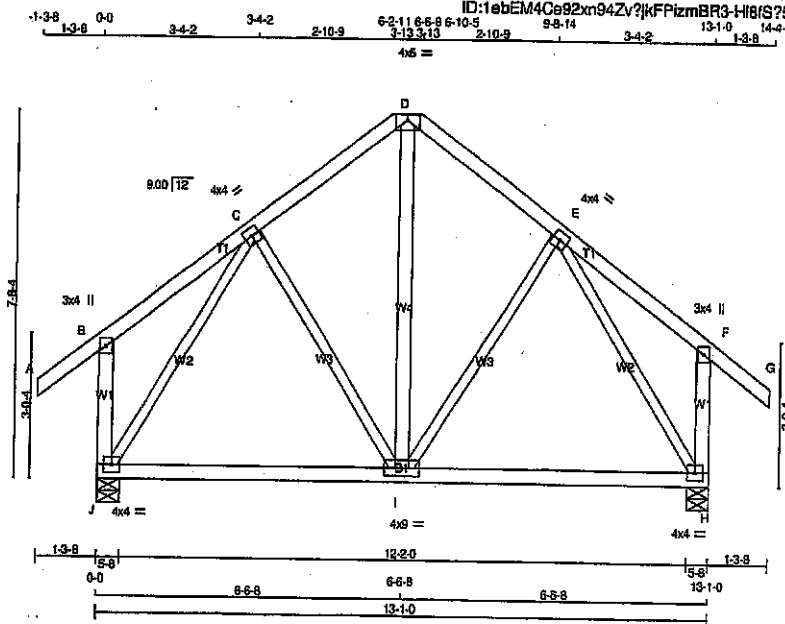
|                           |                          |                      |                 |                                      |             |          |
|---------------------------|--------------------------|----------------------|-----------------|--------------------------------------|-------------|----------|
| JOB NAME<br><b>408164</b> | TRUSS NAME<br><b>T32</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREEN PARK HOMES</b> | TRUSS DESC. | DRWG NO. |
|---------------------------|--------------------------|----------------------|-----------------|--------------------------------------|-------------|----------|

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Tue Apr 28 10:55:38 2020 Page 1

ID:1ebEM4Ce82m94Zv?kFPlzmBR3-H18(S?58cmfCYIKuz0mcuT98kwteo3Fgz9oHizMDcJ

Scale = 1:44.8



**LUMBER**

N. L. G. A. RULES

| CHORDS                | SIZE | DRY | 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 EXCEPT I - D | 2x3  | DRY | No.2   | SPF    |
| 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       | TMVW-1 | MT20 | 4.0 | 4.0 |      |
| D       | TMVW-1 | MT20 | 4.0 | 6.0 | Edge |
| E       | TMVW-1 | MT20 | 4.0 | 4.0 |      |
| F       | TMV+p  | MT20 | 3.0 | 4.0 |      |
| H       | BMVW-1 | MT20 | 4.0 | 4.0 |      |
| I       | BMVW-1 | MT20 | 4.0 | 9.0 |      |
| J       | 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                            | UPLIFT    | IN-SX    |
| J                       | 848                             | 0         | 5-8      |
| H                       | 848                             | 0         | 5-8      |

**UNFACTORED REACTIONS**

| 1ST LOASE   | MAX./MIN. COMPONENT REACTIONS |
|-------------|-------------------------------|
| JT COMBINED | SNOW                          |
| J           | 597                           |
| H           | 597                           |

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.  | FORCE (LBS) | VERT. LOAD (PLF) | MAX. FACTORED (LC1) | MEMB. | FORCE (LBS) | MAX. FACTORED (LC1) | MAX. FACTORED (LC1) |
| FR-TO  |             |                  |                     | FR-TO |             |                     |                     |
| A-B    | 0/38        | -91.8            | -91.8 0.12 (1)      | I-D   | 0/253       | 0.04 (1)            |                     |
| B-C    | 0/21        | -91.8            | -91.8 0.12 (1)      | C-I   | -61/19      | 0.04 (1)            |                     |
| C-D    | -424/0      | -91.8            | -91.8 0.12 (1)      | I-E   | -61/19      | 0.04 (1)            |                     |
| D-E    | -424/0      | -91.8            | -91.8 0.12 (1)      | J-C   | -663/0      | 0.41 (1)            |                     |
| E-F    | 0/21        | -91.8            | -91.8 0.12 (1)      | E-H   | -663/0      | 0.41 (1)            |                     |
| F-G    | 0/38        | -91.8            | -91.8 0.12 (1)      |       |             |                     |                     |
| J-B    | -242/0      | 0.0              | 0.0 0.04 (1)        |       |             |                     |                     |
| H-F    | -242/0      | 0.0              | 0.0 0.04 (1)        |       |             |                     |                     |
| J-I    | 0/356       | -18.5            | -18.5 0.26 (4)      |       |             |                     |                     |
| I-H    | 0/356       | -18.5            | -18.5 0.26 (4)      |       |             |                     |                     |

TOTAL WEIGHT = 70 lb

**DESIGN CRITERIA**

**SPECIFIED LOADS:**

TOP CH. LL = 25.6 PSF

DL = 8.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.4 PSF

TOTAL LOAD = 39.0 PSF

**SPACING = 24.0 IN/C**

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (0.44")

CALCULATED VERT. DEFL.(LL) = L/899 (0.01")

ALLOWABLE DEFL.(TL) = L/360 (0.44")

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

CSI: TC=0.18/1.00 (E-F:1), BC=0.28/1.00 (H-I:4), WB=0.41/1.00 (C-J:1), SSI=0.12/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

**NAIL VALUES**

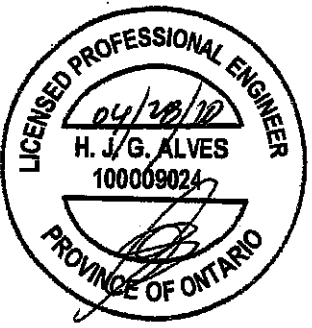
| PLATE GRIP(DRY) | SHEAR (PSI) | SECTION (PLI) |
|-----------------|-------------|---------------|
| MAX MIN         | MAX MIN     | MAX MIN       |
| MT20            | 618 354     | 1887 788      |

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.77 (C) (INPUT = 0.90)

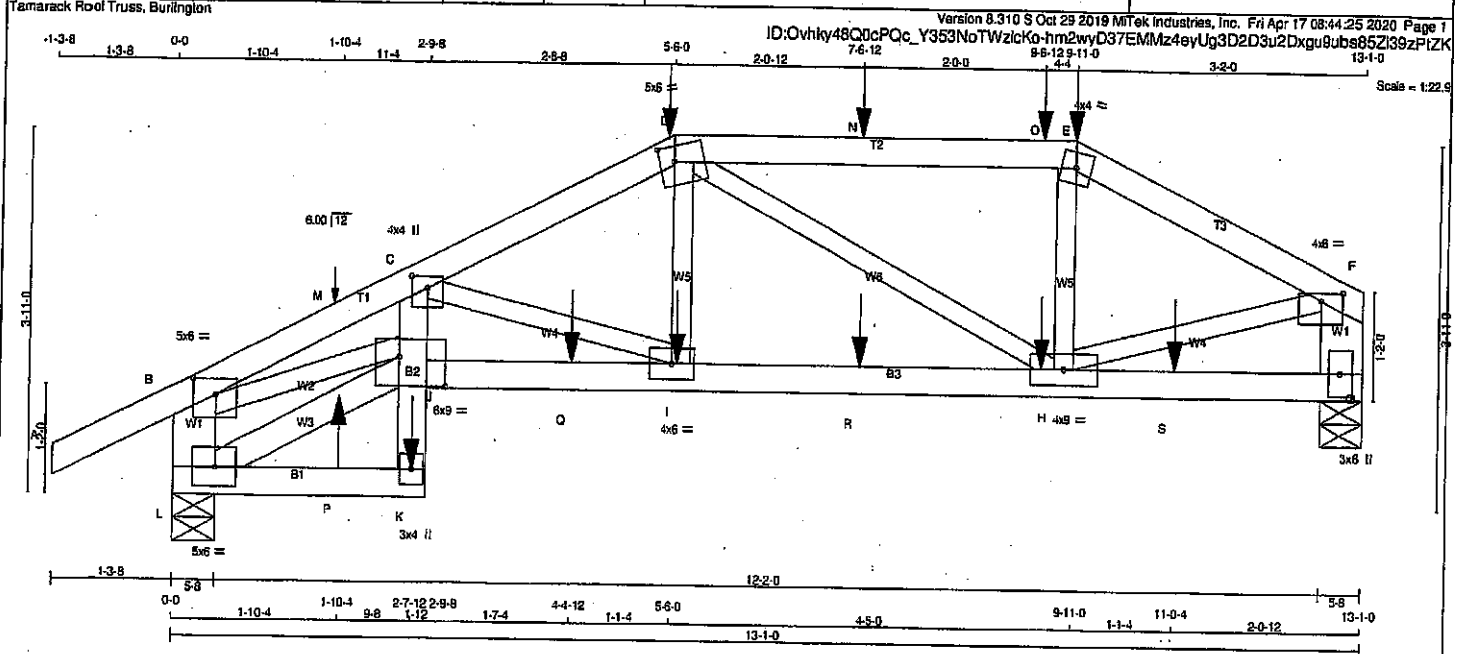
JSI METAL = 0.23 (C) (INPUT = 1.00)



Structural component only

DWG# T-2007738

|                                 |                           |                      |                 |                                      |          |
|---------------------------------|---------------------------|----------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>408165</b>       | TRUSS NAME<br><b>T33S</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREEN PARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                           |                      |                 |                                      |          |



**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  
G - H 2x6 DRY No.2 SPF  
L - K 2x4 DRY No.2 SPF  
K - C 2x4 DRY No.2 SPF  
J - G 2x4 DRY No.2 SPF  
ALL WEBS 2x3 DRY No.2 SPF  
EXCEPT L - J 2x4 DRY No.2 SPF  
DRY: SEASONED LUMBER.

| 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      |
| G - H    | 2x6   | DRY No.2 | SPF      |
| L - K    | 2x4   | DRY No.2 | SPF      |
| K - C    | 2x4   | DRY No.2 | SPF      |
| J - G    | 2x4   | DRY No.2 | SPF      |
| ALL WEBS | 2x3   | DRY No.2 | SPF      |
| EXCEPT   | L - J | 2x4      | DRY No.2 |

| FACTORED       | MAXIMUM FACTORED | INPUT | RECORD |
|----------------|------------------|-------|--------|
| GROSS REACTION | GROSS REACTION   | BRG   | BRG    |
| JT VERT        | 1008             | 0     | 5-8    |
| G VERT         | 1158             | 0     | 5-8    |
| L VERT         | 1158             | 0     | 5-8    |

| UNFACTORED REACTIONS | 1ST CASE | MAX./MIN. COMPONENT REACTIONS |
|----------------------|----------|-------------------------------|
| JT COMBINED          | SNOW     | LIVE                          |
| G COMBINED           | SNOW     | LIVE                          |
| L COMBINED           | SNOW     | LIVE                          |

| BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) G, L                       |
|----------------------------------------------------------------------------------|
| BRACING                                                                          |
| TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.21 FT.                       |
| MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED. |

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

| LOADING       | TOTAL LOAD CASES: (7) |
|---------------|-----------------------|
| CHORDS        | MEMB.                 |
| MAX. FACTORED | FORCE                 |
| VERT. LOAD    | LC1                   |
| MAX. FACTORED | FORCE                 |
| VERT. LOAD    | LC1                   |

| CHORDS | MEMB.   | FORCE | MAX. FACTORED |
|--------|---------|-------|---------------|
| FR-TO  | FR-TO   | FR-TO | FR-TO         |
| A-B    | 0/28    | -81.8 | -81.8         |
| B-C    | -2420/0 | -81.8 | -81.8         |
| C-D    | -2420/0 | -81.8 | -81.8         |
| D-E    | -1595/0 | -81.8 | -81.8         |
| E-F    | -1102/0 | -81.8 | -81.8         |
| F-G    | -1102/0 | -81.8 | -81.8         |
| G-H    | -1102/0 | -81.8 | -81.8         |
| H-I    | -1102/0 | -81.8 | -81.8         |
| I-J    | -1102/0 | -81.8 | -81.8         |
| J-K    | -1102/0 | -81.8 | -81.8         |
| K-L    | -1102/0 | -81.8 | -81.8         |
| L-M    | -1102/0 | -81.8 | -81.8         |
| M-N    | -1102/0 | -81.8 | -81.8         |
| N-O    | -1102/0 | -81.8 | -81.8         |
| O-P    | -1102/0 | -81.8 | -81.8         |
| P-Q    | -1102/0 | -81.8 | -81.8         |
| Q-R    | -1102/0 | -81.8 | -81.8         |
| R-S    | -1102/0 | -81.8 | -81.8         |
| S-T    | -1102/0 | -81.8 | -81.8         |
| T-U    | -1102/0 | -81.8 | -81.8         |
| U-V    | -1102/0 | -81.8 | -81.8         |
| V-W    | -1102/0 | -81.8 | -81.8         |
| W-X    | -1102/0 | -81.8 | -81.8         |
| X-Y    | -1102/0 | -81.8 | -81.8         |
| Y-Z    | -1102/0 | -81.8 | -81.8         |

| CHORDS | MEMB.   | FORCE | MAX. FACTORED |
|--------|---------|-------|---------------|
| FR-TO  | FR-TO   | FR-TO | FR-TO         |
| A-B    | 0/28    | -81.8 | -81.8         |
| B-C    | -2420/0 | -81.8 | -81.8         |
| C-D    | -2420/0 | -81.8 | -81.8         |
| D-E    | -1595/0 | -81.8 | -81.8         |
| E-F    | -1102/0 | -81.8 | -81.8         |
| F-G    | -1102/0 | -81.8 | -81.8         |
| G-H    | -1102/0 | -81.8 | -81.8         |
| H-I    | -1102/0 | -81.8 | -81.8         |
| I-J    | -1102/0 | -81.8 | -81.8         |
| J-K    | -1102/0 | -81.8 | -81.8         |
| K-L    | -1102/0 | -81.8 | -81.8         |
| L-M    | -1102/0 | -81.8 | -81.8         |
| M-N    | -1102/0 | -81.8 | -81.8         |
| N-O    | -1102/0 | -81.8 | -81.8         |
| O-P    | -1102/0 | -81.8 | -81.8         |
| P-Q    | -1102/0 | -81.8 | -81.8         |
| Q-R    | -1102/0 | -81.8 | -81.8         |
| R-S    | -1102/0 | -81.8 | -81.8         |
| S-T    | -1102/0 | -81.8 | -81.8         |
| T-U    | -1102/0 | -81.8 | -81.8         |
| U-V    | -1102/0 | -81.8 | -81.8         |
| V-W    | -1102/0 | -81.8 | -81.8         |
| W-X    | -1102/0 | -81.8 | -81.8         |
| X-Y    | -1102/0 | -81.8 | -81.8         |
| Y-Z    | -1102/0 | -81.8 | -81.8         |

| CHORDS | MEMB.   | FORCE | MAX. FACTORED |
|--------|---------|-------|---------------|
| FR-TO  | FR-TO   | FR-TO | FR-TO         |
| A-B    | 0/28    | -81.8 | -81.8         |
| B-C    | -2420/0 | -81.8 | -81.8         |
| C-D    | -2420/0 | -81.8 | -81.8         |
| D-E    | -1595/0 | -81.8 | -81.8         |
| E-F    | -1102/0 | -81.8 | -81.8         |
| F-G    | -1102/0 | -81.8 | -81.8         |
| G-H    | -1102/0 | -81.8 | -81.8         |
| H-I    | -1102/0 | -81.8 | -81.8         |
| I-J    | -1102/0 | -81.8 | -81.8         |
| J-K    | -1102/0 | -81.8 | -81.8         |
| K-L    | -1102/0 | -81.8 | -81.8         |
| L-M    | -1102/0 | -81.8 | -81.8         |
| M-N    | -1102/0 | -81.8 | -81.8         |
| N-O    | -1102/0 | -81.8 | -81.8         |
| O-P    | -1102/0 | -81.8 | -81.8         |
| P-Q    | -1102/0 | -81.8 | -81.8         |
| Q-R    | -1102/0 | -81.8 | -81.8         |
| R-S    | -1102/0 | -81.8 | -81.8         |
| S-T    | -1102/0 | -81.8 | -81.8         |
| T-U    | -1102/0 | -81.8 | -81.8         |
| U-V    | -1102/0 | -81.8 | -81.8         |
| V-W    | -1102/0 | -81.8 | -81.8         |
| W-X    | -1102/0 | -81.8 | -81.8         |
| X-Y    | -1102/0 | -81.8 | -81.8         |
| Y-Z    | -1102/0 | -81.8 | -81.8         |

| CHORDS | MEMB.   | FORCE | MAX. FACTORED |
|--------|---------|-------|---------------|
| FR-TO  | FR-TO   | FR-TO | FR-TO         |
| A-B    | 0/28    | -81.8 | -81.8         |
| B-C    | -2420/0 | -81.8 | -81.8         |
| C-D    | -2420/0 | -81.8 | -81.8         |
| D-E    | -1595/0 | -81.8 | -81.8         |
| E-F    | -1102/0 | -81.8 | -81.8         |
| F-G    | -1102/0 | -81.8 | -81.8         |
| G-H    | -1102/0 | -81.8 | -81.8         |
| H-I    | -1102/0 | -81.8 | -81.8         |
| I-J    | -1102/0 | -81.8 | -81.8         |
| J-K    | -1102/0 | -81.8 | -81.8         |
| K-L    | -1102/0 | -81.8 | -81.8         |
| L-M    | -1102/0 | -81.8 | -81.8         |
| M-N    | -1102/0 | -81.8 | -81.8         |
| N-O    | -1102/0 | -81.8 | -81.8         |
| O-P    | -1102/0 | -81.8 | -81.8         |
| P-Q    | -1102/0 | -81.8 | -81.8         |
| Q-R    | -1102/0 | -81.8 | -81.8         |
| R-S    | -1102/0 | -81.8 | -81.8         |
| S-T    | -1102/0 | -81.8 | -81.8         |
| T-U    | -1102/0 | -81.8 | -81.8         |
| U-V    | -1102/0 | -81.8 | -81.8         |
| V-W    | -1102/0 | -81.8 | -81.8         |
| W-X    | -1102/0 | -81.8 | -81.8         |
| X-Y    | -1102/0 | -81.8 | -81.8         |
| Y-Z    | -1102/0 | -81.8 | -81.8         |

| CHORDS | MEMB.   | FORCE | MAX. FACTORED |
|--------|---------|-------|---------------|
| FR-TO  | FR-TO   | FR-TO | FR-TO         |
| A-B    | 0/28    | -81.8 | -81.8         |
| B-C    | -2420/0 | -81.8 | -81.8         |
| C-D    | -2420/0 | -81.8 | -81.8         |
| D-E    | -1595/0 | -81.8 | -81.8         |
| E-F    | -1102/0 | -81.8 | -81.8         |
| F-G    | -1102/0 | -81.8 | -81.8         |
| G-H    | -1102/0 | -81.8 | -81.8         |
| H-I    | -1102/0 | -81.8 | -81.8         |
| I-J    | -1102/0 | -81.8 | -81.8         |
| J-K    | -1102/0 | -81.8 | -81.8         |
| K-L    | -1102/0 | -81.8 | -81.8         |
| L-M    | -1102/0 | -81.8 | -81.8         |
| M-N    | -1102/0 | -81.8 | -81.8         |
| N-O    | -1102/0 | -81.8 | -81.8         |
| O-P    | -1102/0 | -81.8 | -81.8         |
| P-Q    | -1102/0 | -81.8 | -81.8         |
| Q-R    | -1102/0 | -81.8 | -81.8         |
| R-S    | -1102/0 | -81.8 | -81.8         |
| S-T    | -1102/0 | -81.8 | -81.8         |
| T-U    | -1102/0 | -81.8 | -81.8         |
| U-V    | -1102/0 | -81.8 | -81.8         |
| V-W    | -1102/0 | -81.8 | -81.8         |
| W-X    | -1102/0 | -81.8 | -81.8         |
| X-Y    | -1102/0 | -81.8 | -81.8         |
| Y-Z    | -1102/0 | -81.8 | -81.8         |

| CHORDS | MEMB.   | FORCE | MAX. FACTORED |
|--------|---------|-------|---------------|
| FR-TO  | FR-TO   | FR-TO | FR-TO         |
| A-B    | 0/28    | -81.8 | -81.8         |
| B-C    | -2420/0 | -81.8 | -81.8         |
| C-D    | -2420/0 | -81.8 | -81.8         |
| D-E    | -1595/0 | -81.8 | -81.8         |
| E-F    | -1102/0 | -81.8 | -81.8         |
| F-G    | -1102/0 | -81.8 | -81.8         |
| G-H    | -1102/0 | -81.8 | -81.8         |
| H-I    | -1102/0 | -81.8 | -81.8         |
| I-J    | -1102/0 | -81.8 | -81.8         |
| J-K    | -1102/0 | -81.8 | -81.8         |
| K-L    | -1102/0 | -81.8 | -81.8         |
| L-M    | -1102/0 | -81.8 | -81.8         |
| M-N    | -1102/0 | -81.8 | -81.8         |
| N-O    | -1102/0 | -81.8 | -81.8         |
| O-P    | -1102/0 | -81.8 | -81.8         |
| P-Q    | -1102/0 | -81.8 | -81.8         |
| Q-R    | -1102/0 | -81.8 | -81.8         |
| R-S    | -1102/0 | -81.8 | -81.8         |
| S-T    | -1102/0 | -81.8 | -81.8         |
| T-U    | -1102/0 | -81.8 | -81.8         |
| U-V    | -1102/0 | -81.8 | -81.8         |
| V-W    | -1102/0 | -81.8 | -81.8         |
| W-X    | -1102/0 | -81.8 | -81.8         |
| X-Y    | -1102/0 | -81.8 | -81.8         |
| Y-Z    | -1102/0 | -81.8 | -81.8         |

| CHORDS | MEMB.   | FORCE | MAX. FACTORED |
|--------|---------|-------|---------------|
| FR-TO  | FR-TO   | FR-TO | FR-TO         |
| A-B    | 0/28    | -81.8 | -81.8         |
| B-C    | -2420/0 | -81.8 | -81.8         |
| C-D    | -2420/0 | -81.8 | -81.8         |
| D-E    | -1595/0 | -81.8 | -81.8         |
| E-F    | -1102/0 | -81.8 | -81.8         |
| F-G    | -1102/0 | -81.8 | -81.8         |
| G-H    | -1102/0 | -81.8 | -81.8         |
| H-I    | -1102/0 | -81.8 | -81.8         |
| I-J    | -1102/0 | -81.8 | -81.8         |
| J-K    | -1102/0 | -81.8 | -81.8         |
| K-L    | -1102/0 | -81.8 | -81.8         |
| L-M    | -1102/0 | -81.8 | -81.8         |
| M-N    | -1102/0 | -81.8 | -81.8         |
| N-O    | -1102/0 | -81.8 | -81.8         |
| O-P    | -1102/0 | -81.8 | -81.8         |
| P-Q    | -1102/0 | -81.8 | -81.8         |
| Q-R    | -1102/0 | -81.8 | -81.8         |
| R-S    | -1102/0 | -81.8 | -81.8         |
| S-T    | -1102/0 | -81.8 | -81.8         |
| T-U    | -1102/0 | -81.8 | -81.8         |
| U-V    | -1102/0 | -81.8 | -81.8         |
| V-W    | -1102/0 | -81.8 | -81.8         |
| W-X    | -1102/0 | -81.8 | -81.8         |
| X-Y    | -1102/0 | -81.8 | -81.8         |
| Y-Z    | -1102/0 | -81.8 | -81.8         |

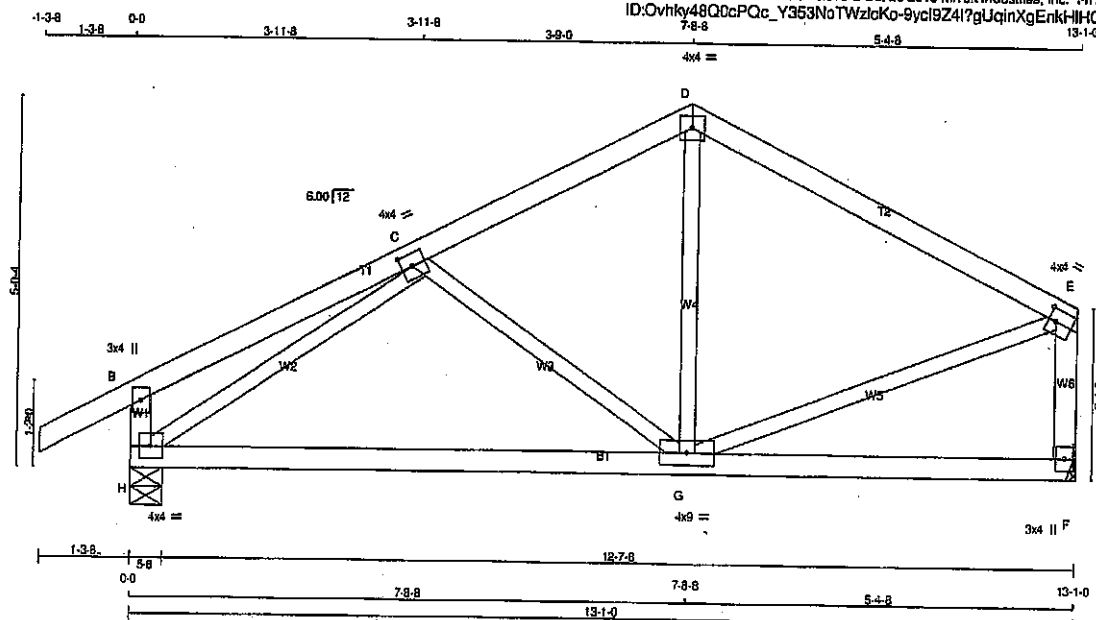
| CHORDS | MEMB.   | FORCE | MAX. FACTORED |
|--------|---------|-------|---------------|
| FR-TO  | FR-TO   | FR-TO | FR-TO         |
| A-B    | 0/28    | -81.8 | -81.8         |
| B-C    | -2420/0 | -81.8 | -81.8         |
| C-D    | -2420/0 | -81.8 | -81.8         |
| D-E    | -1595/0 | -81.8 | -81.8         |
| E-F    | -1102/0 | -81.8 | -81.8         |
| F-G    | -1102/0 | -81.8 | -81.8         |
| G-H    | -1102/0 | -81.8 | -81.8         |
| H-I    | -1102/0 | -81.8 | -81.8         |
| I-J    | -1102/0 | -81.8 | -81.8         |
| J-K    | -1102/0 | -81.8 | -81.8         |
| K-L    | -1102/0 | -81.8 | -81.8         |
| L-M    | -1102/0 | -81.8 | -81.8         |
| M-N    | -1102/0 | -81.8 | -81.8         |
| N-O    | -1102/0 | -81.8 | -81.8         |
| O-P    | -1102/0 | -81.8 | -81.8         |
| P-Q    | -1102/0 | -81.8 | -81.8         |
| Q-R    | -1102/0 | -81.8 | -81.8         |
| R-S    | -1102/0 | -81.8 | -81.8         |
| S-T    | -1102/0 | -81.8 | -81.8         |
| T-U    | -1102/0 | -81.8 | -81.8         |
| U-V    | -1102/0 | -81.8 | -81.8         |
| V-W    | -1102/0 | -81.8 | -81.8         |
| W-X    | -1102/0 | -81.8 | -81.8         |
| X-Y    | -1102/0 | -81.8 | -81.8         |
| Y-Z    | -1102/0 | -81.8 | -81.8         |

| CHORDS | MEMB.   | FORCE | MAX. FACTORED |
|--------|---------|-------|---------------|
| FR-TO  | FR-TO   | FR-TO | FR-TO         |
| A-B    | 0/28    | -81.8 | -81.8         |
| B-C    | -2420/0 | -81.8 | -81.8         |
| C-D    | -2420/0 | -81.8 | -81.8         |
| D-E    | -1595/0 | -81.8 | -81.8         |
| E-F    | -1102/0 | -81.8 | -81.8         |
| F-G    | -1102/0 | -81.8 | -81.8         |
| G-H    | -1102/0 | -81.8 | -81.8         |
| H-I    | -1102/0 | -81.8 | -81.8         |
| I-J    | -1102/0 | -81.8 | -81.8         |
| J-K    | -1102/0 | -81.8 | -81.8         |
| K-L    | -1102/0 | -81.8 | -81.8         |
| L-M    | -1102/0 | -81.8 | -81.8         |
| M-N    | -1102/0 | -81.8 | -81.8         |
| N-O    | -1102/0 | -81.8 | -81.8         |
| O-P    | -1102/0 | -81.8 | -81.8         |
| P-Q    | -1102/0 | -81.8 | -81.8         |
| Q-R    | -1102/0 | -81.8 | -81.8         |
| R-S    | -1102/0 | -81.8 | -81.8         |
| S-T    | -1102/0 | -81.8 | -81.8         |
| T-U    | -1102/0 | -81.8 | -81.8         |
| U-V    | -1102/0 | -81.8 | -81.8         |
| V-W    | -1102/0 | -81.8 | -81.8         |
| W-X    | -1102/0 | -81.8 | -81.8         |
| X-Y    | -1102/0 | -81.8 | -81.8         |
| Y-Z    | -1102/0 | -81.8 | -81.8         |

|                                 |                   |               |          |                               |          |
|---------------------------------|-------------------|---------------|----------|-------------------------------|----------|
| JOB NAME<br>408165              | TRUSS NAME<br>T34 | QUANTITY<br>4 | PLY<br>1 | JOB DESC.<br>GREEN PARK HOMES | DRWG NO. |
| Tamarack Roof Truss, Burlington |                   |               |          |                               |          |

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:44:26 2020 Page 1  
ID:Ovhtky48QDcPQc\_Y353NoTWzldKo-9ycl9Z4I?gUqinXgEnkHHD\_K29uO6?MIFbzPZU

Scale = 1:25.0



TOTAL WEIGHT = 4 X 52 = 207 lb

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

DRY: SEASONED LUMBER.

| PLATES (table in inches) | W   | LEN | Y    | X    |
|--------------------------|-----|-----|------|------|
| JT TYPE PLATES           |     |     |      |      |
| B TMV-p MT20             | 3.0 | 4.0 |      |      |
| C TMWW-t MT20            | 4.0 | 4.0 | 2.00 | 1.75 |
| D TTW-p MT20             | 4.0 | 4.0 |      |      |
| E TMVW-t MT20            | 4.0 | 4.0 | 2.00 | 1.25 |
| F BMV1-p MT20            | 3.0 | 4.0 |      |      |
| G BMWW-t MT20            | 4.0 | 9.0 |      |      |
| H BMVW1-t MT20           | 4.0 | 4.0 |      |      |

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

| BEARINGS | FACTORED       | MAXIMUM FACTORED | INPUT | REQD   |
|----------|----------------|------------------|-------|--------|
|          | GROSS REACTION | GROSS REACTION   | BRG   | BRG    |
| JT       | VERT           | DOWN             | HORIZ | UPLIFT |
| F        | 721            | 0                | 721   | 0      |
| H        | 846            | 0                | 846   | 0      |

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

#### UNFACTORED REACTIONS

| 1ST CASE | MAX/MIN  | COMPONENT REACTIONS                |
|----------|----------|------------------------------------|
| JT       | COMBINED | SNOW LIVE PERM.LIVE WIND DEAD SOIL |
| F        | 510      | 335 / 0 0 / 0 0 / 0 175 / 0 0 / 0  |
| H        | 598      | 404 / 0 0 / 0 0 / 0 192 / 0 0 / 0  |

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

#### BRACING

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MAX. FACTORED | FACTORED       | VERT. LOAD LC1 | MAX      | MAX    | UNBRACED | MEMB.    | MAX. FACTORED | MAX |
|--------|---------------|----------------|----------------|----------|--------|----------|----------|---------------|-----|
| MEMB.  | FORCE (LBS)   | VERT. LOAD LC1 | PLF            | CSI (LC) | LENGTH | FR-TO    | MEMB.    | FORCE (LBS)   | MAX |
| A-B    | 0 / 28        | -91.8          | -91.8          | 0.12 (1) | 10.00  | C-G      | -275 / 0 | 0.10 (1)      |     |
| B-C    | 0 / 18        | -91.8          | -91.8          | 0.21 (1) | 10.00  | G-D      | 0 / 124  | 0.04 (4)      |     |
| C-D    | -584 / 0      | -91.8          | -91.8          | 0.17 (1) | 6.25   | H-C      | -898 / 0 | 0.33 (1)      |     |
| D-E    | -586 / 0      | -91.8          | -91.8          | 0.34 (1) | 6.25   | G-E      | 0 / 541  | 0.12 (1)      |     |
| H-B    | -282 / 0      | 0.0            | 0.0            | 0.03 (1) | 7.81   |          |          |               |     |
| F-E    | -690 / 0      | 0.0            | 0.0            | 0.09 (1) | 7.81   |          |          |               |     |
| H-G    | 0 / 728       | -18.5          | -18.5          | 0.30 (4) | 10.00  |          |          |               |     |
| G-F    | 0 / 0         | -18.5          | -18.5          | 0.25 (4) | 10.00  |          |          |               |     |

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 25.8 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 38.0 PSF

SPACING = 24.0 IN./C

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, OBC 2012, ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 086-08, CSA 086-14  
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.44")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")  
ALLOWABLE DEFL.(TL) = L/360 (0.44")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.10")

CSI: TC=0.34/1.00 (D-E:1), BC=0.30/1.00 (G-H:4), WB=0.33/1.00 (C-H:1), SS=0.17/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

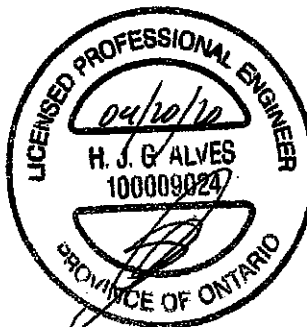
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION (PL) (PL)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1687 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.88 (E) (INPUT = 0.90)  
JSI METAL = 0.28 (C) (INPUT = 1.00)

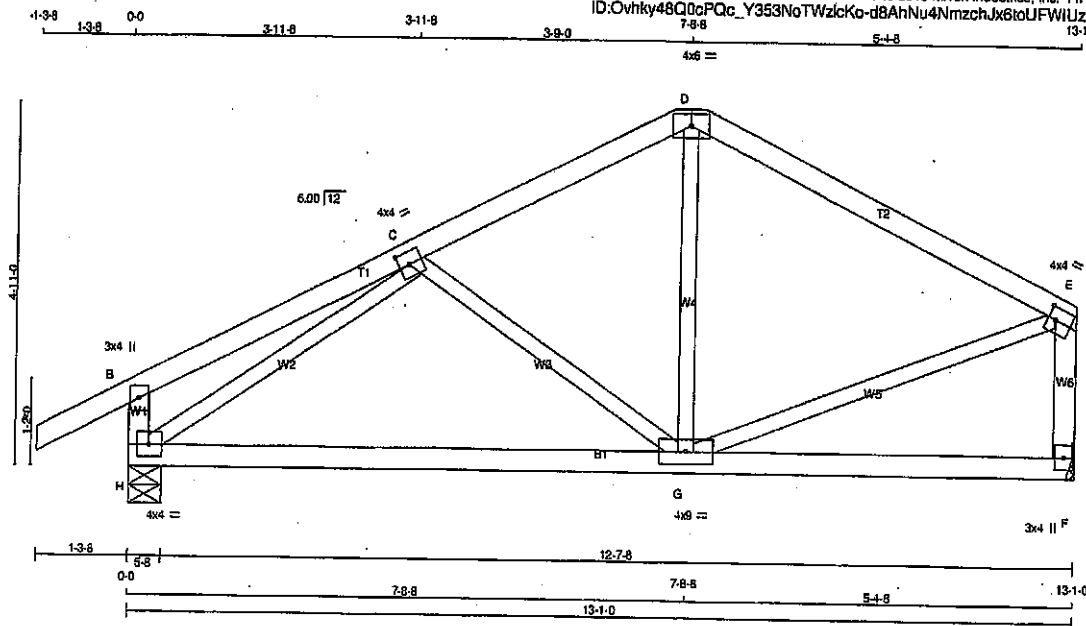


Structural component only  
DWG# T-2006496

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 408165   | T34CP      | 1        | 1   | TRUSS DESC. |                  |          |

Tamareck Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:44:27 2020 Page 1  
ID:Ovhky48Q0cPQc\_Y353NoTWzicko-d8AhNu4NmzchJx6toUFWUzOkkOOfM8bP2p71zPtZl



TOTAL WEIGHT = 52 lb

#### LUMBER

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

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

ALL WEBS 2x3 DRY No.2 SPF

EXCEPT DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| B  | 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 | 6.0 |      |      |
| E  | TMVW-t  | MT20   | 4.0 | 4.0 | 2.00 | 1.25 |
| F  | BMV1+p  | MT20   | 3.0 | 4.0 |      |      |
| G  | BMVWW-t | MT20   | 4.0 | 9.0 |      |      |
| H  | BMVW-t  | MT20   | 4.0 | 4.0 |      |      |

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

##### BEARINGS

| JT | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----|-------------------------|---------------------------------|-----------|----------|
| F  | 721 0                   | 721 0                           | 0 0       | 0 0      |
| H  | 846 0                   | 846 0                           | 0 0       | 0 0      |

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

#### UNFACTORED REACTIONS

| JT | COMBINED | SNOW  | LIVE | PERM.LIVE | WIND | DEAD  | SOIL |
|----|----------|-------|------|-----------|------|-------|------|
| F  | 510      | 385/0 | 0/0  | 0/0       | 0/0  | 175/0 | 0/0  |
| H  | 596      | 404/0 | 0/0  | 0/0       | 0/0  | 192/0 | 0/0  |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MEMB. | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | FACTORED LCI MAX (LC) | MAX. UNBRACED LENGTH FR-TO | WEBS | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH FR-TO |
|--------|-------|---------------------------|---------------------------|-----------------------|----------------------------|------|-------|---------------------------|----------------------------|
| A-B    |       | 0/28                      | -91.8                     | -91.8 0.12 (1)        | 10.00                      | C-G  |       | -275/0                    | 0.10 (1)                   |
| B-C    |       | 0/18                      | -91.8                     | -91.8 0.21 (1)        | 10.00                      | G-D  |       | 0/124                     | 0.04 (4)                   |
| C-D    |       | -584/0                    | -91.8                     | -91.8 0.17 (1)        | 6.25                       | H-C  |       | -899/0                    | 0.33 (1)                   |
| D-E    |       | -586/0                    | -91.8                     | -91.8 0.34 (1)        | 6.25                       | G-E  |       | 0/541                     | 0.12 (1)                   |
| H-B    |       | -282/0                    | 0.0                       | 0.0 0.03 (1)          | 7.81                       |      |       |                           |                            |
| F-E    |       | -690/0                    | 0.0                       | 0.0 0.09 (1)          | 7.81                       |      |       |                           |                            |
| H-G    |       | 0/728                     | -18.5                     | -18.5 0.30 (4)        | 10.00                      |      |       |                           |                            |
| G-F    |       | 0/0                       | -18.5                     | -18.5 0.25 (4)        | 10.00                      |      |       |                           |                            |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |    |        |     |
|------------|----|--------|-----|
| TOP CH.    | LL | = 25.6 | PSF |
|            | DL | = 6.0  | PSF |
| BOT CH.    | LL | = 0.0  | PSF |
|            | DL | = 7.4  | PSF |
| TOTAL LOAD |    | = 39.0 | PSF |

SPACING = 24.0 IN. C/C

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

##### THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) =  $L/360$  (0.44")  
CALCULATED VERT. DEFL.(LL) =  $L/999$  (0.01")  
ALLOWABLE DEFL.(TL) =  $L/360$  (0.44")  
CALCULATED VERT. DEFL.(TL) =  $L/999$  (0.10")

CSI: TC=0.34/1.00 (D-E:1), BC=0.30/1.00 (G-H:4), WB=0.33/1.00 (C-H:1), SS=0.17/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

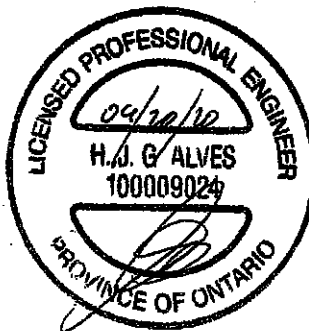
#### NAIL VALUES

| PLATE GRIP(DRY) | SHEAR (PSI) | SECTION (PL)       |
|-----------------|-------------|--------------------|
| MAX MIN         | MAX MIN     | MAX MIN            |
| MT20            | 618 354     | 1867 788 1987 1656 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.86 (E) (INPUT = 0.90)  
JSI METAL = 0.28 (C) (INPUT = 1.00)



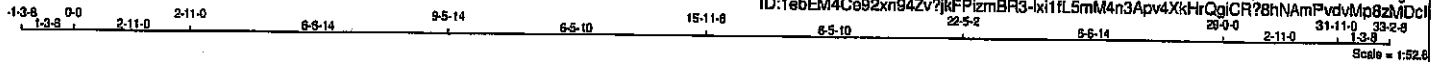
Structural component only  
DWG# T-2006497

| JOB NAME    | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
|-------------|------------|----------|-----|------------------|----------|
| 408164      | T300       | 1        | 1   | GREEN PARK HOMES |          |
| TRUSS DESC. |            |          |     |                  |          |

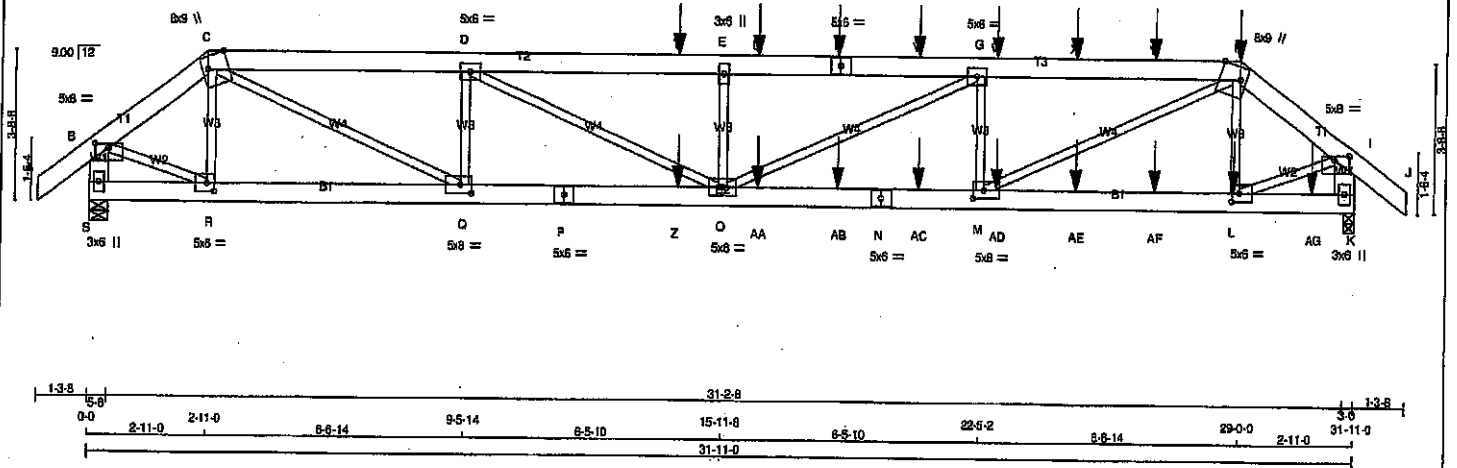
Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mtek Industries, Inc. Tue Apr 28 10:55:38 2020 Page 1

ID:1ebEM4Ce92xrn94Zv?jkFPizmBR3-ixi1fL5mM4n3Apv4XkHrCgiCR?8hNamPvdyMp8zmIDcl



Scale = 1:52.8



TOTAL WEIGHT = 165 lb

#### LUMBER

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

| CHORDS | SIZE | LUMBER | DESCR.   |
|--------|------|--------|----------|
| A - C  | 2x8  | DRY    | No.2 SPF |
| C - F  | 2x8  | DRY    | No.2 SPF |
| F - H  | 2x8  | DRY    | No.2 SPF |
| H - J  | 2x8  | DRY    | No.2 SPF |
| J - L  | 2x8  | DRY    | No.2 SPF |
| L - K  | 2x8  | DRY    | No.2 SPF |
| K - P  | 2x8  | DRY    | No.2 SPF |
| P - N  | 2x8  | DRY    | No.2 SPF |
| N - K  | 2x8  | 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 TMWV-p | MT20   | 5.0 | 8.0 | 1.25 | 4.00 |
| C TTWW-m | MT20   | 8.0 | 9.0 | Edge | 6.25 |
| D TMWV-l | MT20   | 5.0 | 6.0 |      |      |
| E TMWV-w | MT20   | 3.0 | 6.0 |      |      |
| F TS-l   | MT20   | 5.0 | 6.0 |      |      |
| G TMWV-l | MT20   | 5.0 | 6.0 |      |      |
| H TTWW-m | MT20   | 8.0 | 9.0 | Edge | 6.25 |
| I TMWV-p | MT20   | 5.0 | 8.0 | 1.25 | 4.00 |
| K BMV1-p | MT20   | 3.0 | 6.0 |      |      |
| L BMWV-l | MT20   | 5.0 | 6.0 | 2.50 | 2.25 |
| M BMWV-l | MT20   | 5.0 | 6.0 | 2.50 | 3.25 |
| N BS-l   | MT20   | 5.0 | 6.0 |      |      |
| O BMWV-l | MT20   | 5.0 | 6.0 |      |      |
| P BS-l   | MT20   | 5.0 | 6.0 |      |      |
| Q BMWV-l | MT20   | 5.0 | 6.0 | 2.50 | 3.25 |
| R BMWV-l | MT20   | 5.0 | 6.0 | 2.50 | 2.25 |
| S BMV1-p | MT20   | 3.0 | 6.0 |      |      |

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

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

##### BEARINGS

|         | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|---------|-------------------------|---------------------------------|-----------|----------|
| JT VERT | 2105                    | 2105                            | 0         | 5-8      |
| S       | 2458                    | 2458                            | 0         | 3-0      |

##### UNFACTORED REACTIONS

|    | 1ST CASE | MAX/MIN. COMPONENT REACTIONS |       |            |       |         |       |
|----|----------|------------------------------|-------|------------|-------|---------|-------|
| JT | COMBINED | SNOW                         | LIVE  | PERM. LIVE | WIND  | DEAD    | SOIL  |
| S  | 1486     | 990 / 0                      | 0 / 0 | 0 / 0      | 0 / 0 | 498 / 0 | 0 / 0 |
| K  | 1734     | 1153 / 0                     | 0 / 0 | 0 / 0      | 0 / 0 | 581 / 0 | 0 / 0 |

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

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.22 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                | WEBS               |       |                           |               |
|--------|---------------------------|---------------------------|----------------|--------------------|-------|---------------------------|---------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CSI (LC)  | MAX. UNBRAC LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |
| FR-TO  |                           | FROM TO                   |                | FR-TO              |       |                           |               |
| A-B    | 0 / 39                    | -91.8                     | -91.8 0.07 (1) | 10.00              | R-C   | -412 / 0                  | 0.09 (1)      |
| B-C    | -2129 / 0                 | -91.8                     | -91.8 0.10 (1) | 5.48               | C-Q   | 0 / 2944                  | 0.73 (1)      |
| C-D    | -4328 / 0                 | -91.8                     | -91.8 0.42 (1) | 3.40               | Q-D   | -1203 / 0                 | 0.25 (1)      |
| D-E    | -5422 / 0                 | -91.8                     | -91.8 0.50 (1) | 3.37               | D-E   | 0 / 1227                  | 0.30 (1)      |
| E-F    | -5422 / 0                 | -91.8                     | -91.8 0.50 (1) | 3.37               | E-F   | -717 / 0                  | 0.15 (1)      |
| F-G    | -5422 / 0                 | -91.8                     | -91.8 0.61 (1) | 3.22               | G-G   | 0 / 730                   | 0.18 (1)      |
| G-H    | -5422 / 0                 | -91.8                     | -91.8 0.61 (1) | 3.22               | M-G   | -1225 / 0                 | 0.28 (1)      |
| H-I    | -5422 / 0                 | -91.8                     | -91.8 0.61 (1) | 3.22               | M-H   | 0 / 3087                  | 0.76 (1)      |
| I-J    | -5422 / 0                 | -91.8                     | -91.8 0.61 (1) | 3.22               | L-H   | -477 / 0                  | 0.10 (1)      |
| J-K    | -5422 / 0                 | -91.8                     | -91.8 0.61 (1) | 3.48               | B-R   | 0 / 1786                  | 0.44 (1)      |
| K-L    | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               | L-I   | 0 / 2122                  | 0.53 (1)      |
| L-M    | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| M-N    | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| N-O    | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| O-P    | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| P-Q    | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| Q-R    | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| R-S    | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| S-T    | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| T-U    | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| U-V    | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| V-W    | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| W-X    | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| X-Y    | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| Y-Z    | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| Z-AA   | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AA-AB  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AB-AC  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AC-AD  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AD-AE  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AE-AF  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AF-AG  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AG-AH  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AH-AI  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AI-AJ  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AJ-AK  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AK-AL  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AL-AM  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AM-AN  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AN-AO  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AO-AP  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AP-AQ  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AQ-AR  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AR-AS  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AS-AT  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AT-AU  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AU-AV  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AV-AW  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AW-AX  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AX-AY  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AY-AZ  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AZ-AA  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AA-AB  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AB-AC  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AC-AD  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AD-AE  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AE-AF  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AF-AG  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AG-AH  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AH-AI  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AI-AJ  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AJ-AK  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AK-AL  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AL-AM  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AM-AN  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AN-AO  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AO-AP  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AP-AQ  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AQ-AR  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AR-AS  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AS-AT  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AT-AU  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AU-AV  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AV-AW  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AW-AX  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AX-AY  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AY-AZ  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AZ-AA  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AA-AB  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AB-AC  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AC-AD  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AD-AE  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AE-AF  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AF-AG  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AG-AH  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AH-AI  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AI-AJ  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AJ-AK  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AK-AL  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AL-AM  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AM-AN  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AN-AO  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AO-AP  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AP-AQ  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AQ-AR  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AR-AS  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AS-AT  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AT-AU  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AU-AV  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AV-AW  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AW-AX  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AX-AY  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AY-AZ  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AZ-AA  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AA-AB  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AB-AC  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AC-AD  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AD-AE  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AE-AF  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AF-AG  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AG-AH  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AH-AI  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AI-AJ  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AJ-AK  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AK-AL  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AL-AM  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AM-AN  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AN-AO  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AO-AP  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AP-AQ  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AQ-AR  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AR-AS  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AS-AT  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AT-AU  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AU-AV  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AV-AW  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AW-AX  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AX-AY  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AY-AZ  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AZ-AA  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AA-AB  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AB-AC  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AC-AD  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AD-AE  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AE-AF  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AF-AG  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AG-AH  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AH-AI  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AI-AJ  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AJ-AK  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AK-AL  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AL-AM  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AM-AN  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AN-AO  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AO-AP  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AP-AQ  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AQ-AR  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AR-AS  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AS-AT  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AT-AU  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AU-AV  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AV-AW  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AW-AX  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AX-AY  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AY-AZ  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AZ-AA  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AA-AB  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AB-AC  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AC-AD  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AD-AE  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AE-AF  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AF-AG  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AG-AH  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AH-AI  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AI-AJ  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AJ-AK  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AK-AL  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AL-AM  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AM-AN  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AN-AO  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AO-AP  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AP-AQ  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.48               |       |                           |               |
| AQ-AR  | -5422 / 0                 | -91.8                     | -91.8 0.55 (1) | 3.                 |       |                           |               |

|          |            |          |     |                  |          |
|----------|------------|----------|-----|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408164   | T300       | 1        | 1   | GREEN PARK HOMES |          |

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 25 2019 Mittek Industries, Inc. Tue Apr 28 10:55:39 2020 Page 2  
ID:1ebEM4Ce92xn94Zv7kFPzmBR3-ki1L5mM4h3Apv4XkHrQgiCR78hNAmPvdvMp8zMDcl

| FACTORED CONCENTRATED LOADS (LBS) |         |     |      |      |       |      |       |      |       |
|-----------------------------------|---------|-----|------|------|-------|------|-------|------|-------|
| JT                                | LOC.    | LC1 | MAX- | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
| U                                 | 18-10-4 | -67 | -67  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| V                                 | 20-10-4 | -67 | -67  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| W                                 | 22-10-4 | -67 | -67  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| X                                 | 24-10-4 | -67 | -67  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| Y                                 | 26-10-4 | -67 | -67  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| Z                                 | 14-10-4 | -13 | -13  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AA                                | 16-10-4 | -13 | -13  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AB                                | 18-10-4 | -13 | -13  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AC                                | 20-10-4 | -13 | -13  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AD                                | 22-10-4 | -13 | -13  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AE                                | 24-10-4 | -13 | -13  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AF                                | 26-10-4 | -13 | -13  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AG                                | 30-10-4 | -13 | -13  | ---  | FRONT | VERT | TOTAL | ---  | C1    |

**CONNECTION REQUIREMENTS**

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



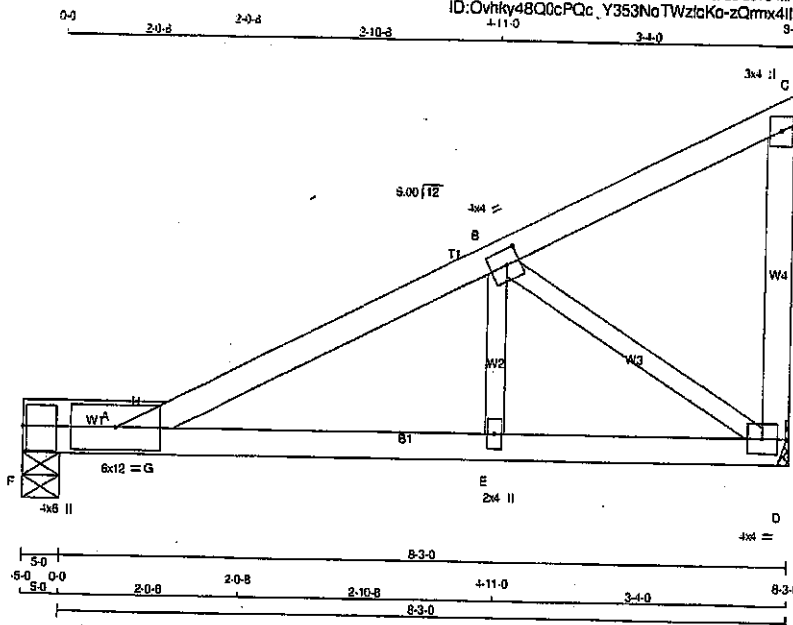
Structural component only  
DWG# T-2007739 72

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC         | TRUSS DESC. | DRWG NO. |
|----------|------------|----------|-----|------------------|-------------|----------|
| 408165   | T320       | 4        | 1   | GREEN PARK HOMES |             |          |

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MITek Industries, Inc. Mon May 11 09:05:34 2020 Page 1  
ID:Ovhky48Q0cPQc\_Y353NoTWzicKo-zQrmx4IMKU4AMj5xqjdW?ca7bd3elqkAPTPSDzHdvV  
9-3-0

Scale = 1:23.7



#### LUMBER

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

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

#### PLATES (table is in inches)

| JT | TYPE    | PLATES | W   | LEN  | Y    | X    |
|----|---------|--------|-----|------|------|------|
| A  | TBMWm   | MT20   | 6.0 | 12.0 |      |      |
| B  | TBMWW-i | MT20   | 4.0 | 4.0  | 2.00 | 1.75 |
| C  | TBMWp   | MT20   | 3.0 | 4.0  |      |      |
| D  | BMWW1-t | MT20   | 4.0 | 4.0  |      |      |
| E  | BMW-w   | MT20   | 2.0 | 4.0  |      |      |
| F  | BMWM1+m | MT20   | 4.0 | 6.0  | 3.25 | 0.50 |

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

##### BEARINGS

| JT | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | RECORD BRG |
|----|-------------------------|---------------------------------|-----------|------------|
| JT | VERT                    | HORZ                            | DOWN      | HORZ       |
| D  | 478                     | 0                               | 478       | 0          |
| F  | 478                     | 0                               | 478       | 0          |

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

##### UNFACTORED REACTIONS

| JT | 1ST CASE | MAX. MIN. COMPONENT REACTIONS | SNOW | LIVE | PERM. LIVE | WIND | DEAD | SOIL |
|----|----------|-------------------------------|------|------|------------|------|------|------|
| JT | COMBINED |                               |      |      |            |      |      |      |
| D  | 338      | 222                           | 0    | 0    | 0          | 0    | 116  | 0    |
| F  | 338      | 222                           | 0    | 0    | 0          | 0    | 116  | 0    |

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

##### BRACING

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

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

##### LOADING

TOTAL LOAD CASES: (4)

| MEMB. | CHORDS | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (PLF) |
|-------|--------|---------------------------|---------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| FR-TO |        |                           |                           |                                |                                |                                |                                |                                |                                |
| A-H   |        | -831                      | 0                         | -91.8                          | -91.8                          | 0.21 (1)                       | 8.25                           | E-B                            | 0 195                          |
| H-B   |        | -627                      | 0                         | -91.8                          | -91.8                          | 0.29 (1)                       | 8.25                           | B-D                            | -715 0                         |
| B-C   |        | -27                       | 0                         | -91.8                          | -91.8                          | 0.21 (1)                       | 8.25                           | G-H                            | 0 281                          |
| D-C   |        | -93                       | 0                         | 0.0                            | 0.0                            | 0.02 (1)                       | 7.81                           |                                |                                |
| F-A   |        | 0 0                       |                           | -110.3                         | -110.3                         | 0.25 (1)                       | 10.00                          |                                |                                |
| A-G   |        | 0 602                     |                           | -18.5                          | -18.5                          | 0.69 (1)                       | 10.00                          |                                |                                |
| G-E   |        | 0 602                     |                           | -18.5                          | -18.5                          | 0.47 (1)                       | 10.00                          |                                |                                |
| E-D   |        | 0 602                     |                           | -18.5                          | -18.5                          | 0.23 (1)                       | 10.00                          |                                |                                |

TOTAL WEIGHT = 4 X 30 = 119 lb

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |    |      |      |     |
|------------|----|------|------|-----|
| TOP CH.    | LL | =    | 25.6 | PSF |
| DL         | =  | 6.0  | PSF  |     |
| BOT CH.    | LL | =    | 0.0  | PSF |
| DL         | =  | 7.4  | PSF  |     |
| TOTAL LOAD | =  | 39.0 | PSF  |     |

SPACING = 24.0 IN. C/C

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

##### THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL. (LL) = L/360 (0.29")  
CALCULATED VERT. DEFL. (LL) = L/399 (0.08")  
ALLOWABLE DEFL. (TL) = L/360 (0.29")  
CALCULATED VERT. DEFL. (TL) = L/708 (0.15")

CSI: TO=0.29/1.00 (B-H:1), BC=0.69/1.00 (A-G:1), WB=0.18/1.00 (B-D:1), SSI=0.30/1.00 (A-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

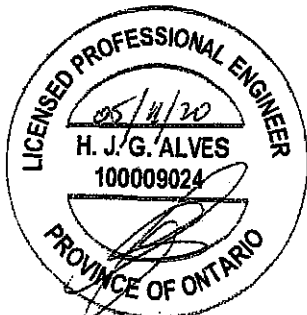
##### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

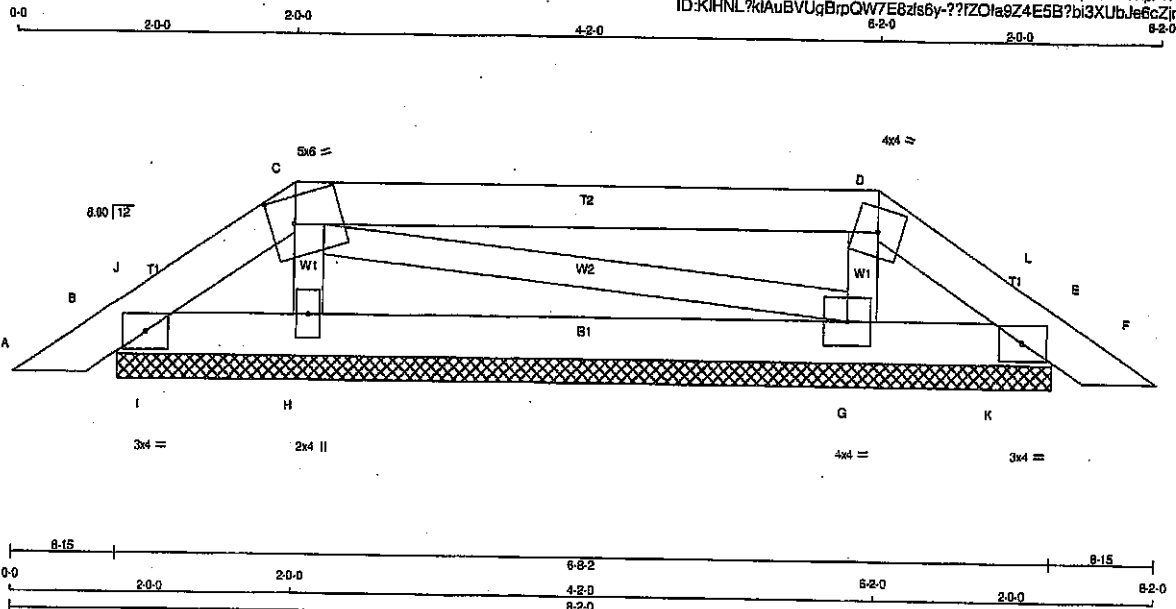
JSI GRIP = 0.65 (D) (INPUT = 0.90)  
JSI METAL = 0.25 (A) (INPUT = 1.00)



Structural component only  
DWG# T-2009109

|                                 |            |             |     |                                                                                    |          |
|---------------------------------|------------|-------------|-----|------------------------------------------------------------------------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY    | PLY | JOB DESC.                                                                          | DRWG NO. |
| 408163                          | PB1        | 2           | 1   | GREEN PARK HOMES                                                                   |          |
| Tamarack Roof Truss, Burlington |            | TRUSS DESC. |     | Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 09:46:31 2020 Page 1 |          |

ID:KIHNL?kiAuBVUgBrpQW7E8zfs6y-??IZOIa9Z4E5B?bi3XUbJe6cZnKh?iP6i4NurzPpXKM



#### LUMBER

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

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

ALL WEBS 2x3 DRY  
DRY: SEASONED LUMBER.

DESCR.  
SPF  
SPF  
SPF  
SPF

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

##### BEARINGS

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG | RECORD BRG |
|----|-------------------------|------|---------------------------------|------|-----------|------------|
|    | VERT                    | HORZ | DOWN                            | HORZ |           |            |
| B  | 145                     | 0    | 145                             | 0    | 6-8-2     | 6-8-2      |
| E  | 141                     | 0    | 141                             | 0    | 6-8-2     | 6-8-2      |
| H  | 283                     | 0    | 283                             | 0    | 6-8-2     | 6-8-2      |
| G  | 289                     | 0    | 289                             | 0    | 6-8-2     | 6-8-2      |

##### UNFACTORED REACTIONS

| JT | 1ST CASE COMBINED | MAX./MIN. COMPONENT REACTIONS |      |            |      |      |      |
|----|-------------------|-------------------------------|------|------------|------|------|------|
|    |                   | SNOW                          | LIVE | PERM. LIVE | WIND | DEAD | SOIL |
| B  | 99                | 83/0                          | 0/0  | 0/0        | 0/0  | 17/0 | 0/0  |
| E  | 97                | 81/0                          | 0/0  | 0/0        | 0/0  | 16/0 | 0/0  |
| H  | 202               | 121/0                         | 0/0  | 0/0        | 0/0  | 81/0 | 0/0  |
| G  | 208               | 125/0                         | 0/0  | 0/0        | 0/0  | 81/0 | 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 MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) |       | MAX. CSI (LC) | MAX. UNBRACED LENGTH | MEMB. | WEBS MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |
|-------|----------------------------------|---------------------------|-------|---------------|----------------------|-------|--------------------------------|---------------|
|       |                                  | FROM                      | TO    |               |                      |       |                                |               |
| FR-TO |                                  |                           |       |               |                      |       |                                |               |
| A-B   | 0/15                             | -91.8                     | -91.8 | 0.03 (1)      | 10.00                | H-C   | -203/0                         | 0.03 (1)      |
| B-J   | -44/0                            | -91.8                     | -91.8 | 0.01 (4)      | 8.25                 | C-G   | -8/0                           | 0.00 (1)      |
| J-C   | -51/0                            | -91.8                     | -91.8 | 0.01 (1)      | 6.25                 | G-D   | -208/0                         | 0.03 (1)      |
| C-D   | -11/0                            | -91.8                     | -91.8 | 0.27 (1)      | 6.25                 | I-J   | -58/0                          | 0.00 (1)      |
| D-L   | -45/0                            | -91.8                     | -91.8 | 0.01 (1)      | 6.25                 | K-L   | -69/0                          | 0.00 (1)      |
| L-E   | -37/2                            | -91.8                     | -91.8 | 0.01 (4)      | 6.25                 |       |                                |               |
| E-F   | 0/15                             | -91.8                     | -91.8 | 0.03 (1)      | 10.00                |       |                                |               |
| B-I   | 0/40                             | -18.5                     | -18.5 | 0.03 (1)      | 10.00                |       |                                |               |
| I-H   | 0/40                             | -18.5                     | -18.5 | 0.05 (4)      | 10.00                |       |                                |               |
| H-G   | 0/17                             | -18.5                     | -18.5 | 0.05 (4)      | 10.00                |       |                                |               |
| G-K   | 0/35                             | -18.5                     | -18.5 | 0.05 (4)      | 10.00                |       |                                |               |
| K-E   | 0/35                             | -18.5                     | -18.5 | 0.03 (1)      | 10.00                |       |                                |               |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |           |     |
|------------|-----------|-----|
| TOP CH.    | LL = 25.6 | PSF |
|            | DL = 6.0  | PSF |
| BOT CH.    | LL = 0.0  | PSF |
|            | DL = 7.4  | PSF |
| TOTAL LOAD | = 39.0    | PSF |

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF CBC 2010, CBC 2012, ABC 2019  
- PART 9 OF CBC 2012 (2019 AMENDMENT)  
- CSA 085-09, CSA 085-14  
- TPIC 2011, TPIC 2014

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

CSI: TC=0.27/1.00 (C-D:1), BC=0.05/1.00 (H-I:4), WB=0.03/1.00 (D-G:1), SS=0.15/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

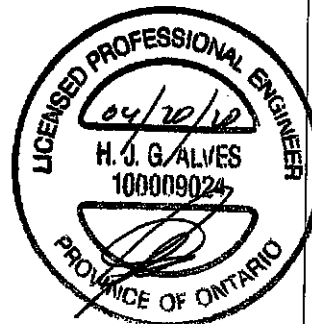
##### NAIL VALUES

| PLATE GRIP(DRY) | SHEAR (PSI) | SECTION (PL) |
|-----------------|-------------|--------------|
| MT20            | 818         | 354          |
|                 | 1667        | 788          |
|                 | 1987        | 1658         |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.16 (D) (INPUT = 0.90)  
JSI METAL= 0.05 (C) (INPUT = 1.00)



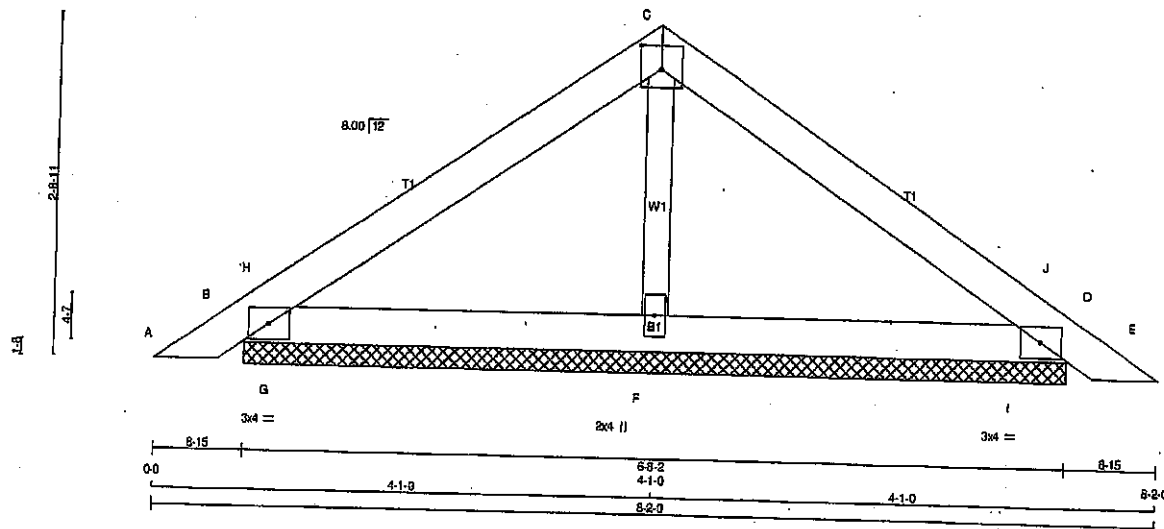
Structural component only  
DWG# T-2006466

|                           |                          |                      |                 |                                      |             |          |
|---------------------------|--------------------------|----------------------|-----------------|--------------------------------------|-------------|----------|
| JOB NAME<br><b>408163</b> | TRUSS NAME<br><b>PB2</b> | QUANTITY<br><b>7</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREEN PARK HOMES</b> | TRUSS DESC. | DRWG NO. |
|---------------------------|--------------------------|----------------------|-----------------|--------------------------------------|-------------|----------|

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MTEK Industries, Inc. Fri Apr 17 08:46:32 2020 Page 1  
ID:KIHNL7kAuBVUgPrQW7E8zls6y-TCDXcebnKNMyp9AudE?qsreqh76RQS7YLMqW0tzPxL  
8-2-0

Scale = 1:16.0



#### LUMBER

N. L. G. A. RULES

CHORDS SIZE DRY LUMBER  
A - C 2x4 DRY No.2  
C - E 2x4 DRY No.2  
B - D 2x4 DRY No.2  
ALL WEBS 2x3 DRY No.2  
DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | 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

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG | RECORD BRG |
|----|-------------------------|------|---------------------------------|------|-----------|------------|
|    | VERT                    | HORZ | DOWN                            | HORZ |           |            |
| B  | 284                     | 0    | 284                             | 0    | 6-8-2     | 6-8-2      |
| D  | 284                     | 0    | 284                             | 0    | 6-8-2     | 6-8-2      |
| F  | 291                     | 0    | 291                             | 0    | 6-8-2     | 6-8-2      |

##### UNFACTORED REACTIONS

| JT | COMBINED | 1ST LCASE MAX/MIN COMPONENT REACTIONS |       | PERM.LIVE | WIND  | DEAD   | SOIL  |
|----|----------|---------------------------------------|-------|-----------|-------|--------|-------|
|    |          | SNOW                                  | LIVE  |           |       |        |       |
| B  | 188      | 142 / 0                               | 0 / 0 | 0 / 0     | 0 / 0 | 58 / 0 | 0 / 0 |
| D  | 198      | 142 / 0                               | 0 / 0 | 0 / 0     | 0 / 0 | 58 / 0 | 0 / 0 |
| F  | 208      | 125 / 0                               | 0 / 0 | 0 / 0     | 0 / 0 | 83 / 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)

| MEMB. | FR-TO    | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (LBS) |          | MAX. CS (LC) | MAX. UNBRAC LENGTH | WEBS MAX. FACTORED FORCE (LBS) | MAX. CS (LC) |
|-------|----------|---------------------------|---------------------------|----------|--------------|--------------------|--------------------------------|--------------|
|       |          |                           | FROM                      | TO       |              |                    |                                |              |
| A-B   | 0 / 15   | -91.8                     | -91.8                     | 0.03 (1) | 10.00        | F-C                | -138 / 0                       | 0.02 (1)     |
| B-H   | -32 / 0  | -91.8                     | -91.8                     | 0.05 (1) | 6.25         | G-H                | -278 / 0                       | 0.00 (1)     |
| H-C   | -111 / 0 | -91.8                     | -91.8                     | 0.12 (1) | 6.25         | I-J                | -278 / 0                       | 0.00 (1)     |
| C-J   | -111 / 0 | -91.8                     | -91.8                     | 0.12 (1) | 6.25         |                    |                                |              |
| J-D   | -32 / 0  | -91.8                     | -91.8                     | 0.05 (1) | 6.25         |                    |                                |              |
| D-E   | 0 / 15   | -91.8                     | -91.8                     | 0.03 (1) | 10.00        |                    |                                |              |
| B-G   | 0 / 88   | -18.5                     | -18.5                     | 0.12 (1) | 10.00        |                    |                                |              |
| G-F   | 0 / 88   | -18.5                     | -18.5                     | 0.12 (1) | 10.00        |                    |                                |              |
| F-I   | 0 / 88   | -18.5                     | -18.5                     | 0.12 (1) | 10.00        |                    |                                |              |
| I-D   | 0 / 88   | -18.5                     | -18.5                     | 0.12 (1) | 10.00        |                    |                                |              |

TOTAL WEIGHT = 7 X 20 = 143 lb

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

TOP CH. LL = 25.6 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

CSI: TC=0.12/1.00 (C-H:1), BC=0.12/1.00 (B-G:1), WB=0.02/1.00 (C-F:1), SS=0.21/1.00 (B-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

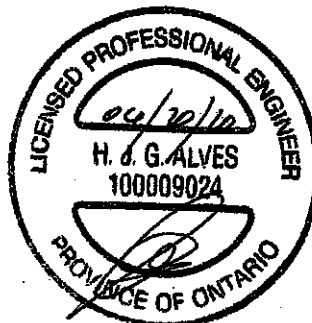
##### NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 615 354 1667 788 1987 1858

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.24 (B) (INPUT = 0.90)  
JSI METAL= 0.06 (B) (INPUT = 1.00)

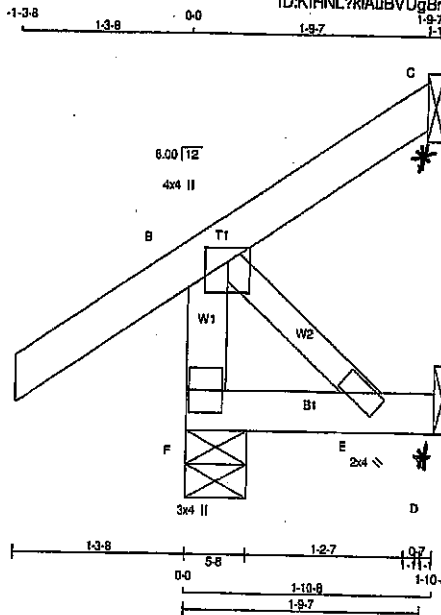


Structural component only  
DWG# T-2006467

|                    |                  |               |          |                               |             |          |
|--------------------|------------------|---------------|----------|-------------------------------|-------------|----------|
| JOB NAME<br>408163 | TRUSS NAME<br>J1 | QUANTITY<br>3 | PLY<br>1 | JOB DESC.<br>GREEN PARK HOMES | TRUSS DESC. | DRWG NO. |
|--------------------|------------------|---------------|----------|-------------------------------|-------------|----------|

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:48:21 2020 Page 1  
ID:KIHNL?kIAuBVUgBrpQW7E8zls6y-H43nItUw?zW?TqTQIFvXhxOhMTLTkwps8fr7RzPIXW  
1-9-7 1-10-8



Scale = 1:15.8

#### LUMBER

N. L. G. A. RULES

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

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

| DESCR. | SPF |
|--------|-----|
| SPF    | SPF |
| SPF    | SPF |
| SPF    | SPF |

#### PLATES (tablets in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMVW+p | MT20   | 4.0 | 4.0 | 1.25 | 2.00 |
| E  | BMVW+w | MT20   | 2.0 | 4.0 |      |      |
| F  | BMV1+p | MT20   | 3.0 | 4.0 |      |      |

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

#### BEARINGS

| JT | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----|-------------------------|---------------------------------|-----------|----------|
| F  | 274                     | 274                             | 5-8       | 5-8      |
| C  | 34                      | 34                              | 1-8       | 1-8      |
| D  | 17                      | 19                              | 1-8       | 1-8      |

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

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

#### UNFACTORED REACTIONS

| JT | 1ST CASE | MAX. MIN. COMPONENT REACTIONS | PERM. LIVE | WIND  | DEAD   | SOIL  |
|----|----------|-------------------------------|------------|-------|--------|-------|
| F  | 190      | 143 / 0                       | 0 / 0      | 0 / 0 | 47 / 0 | 0 / 0 |
| C  | 23       | 19 / -27                      | 0 / 0      | 0 / 0 | 4 / 0  | 0 / 0 |
| D  | 14       | 0 / 0                         | 0 / 0      | 0 / 0 | 14 / 0 | 0 / 0 |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (5)

| MEMB. | CHORDS MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CSI (LC) | MAX. UNBRACED LENGTH | MEMB. | WEBS MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |
|-------|----------------------------------|---------------------------|---------------|----------------------|-------|--------------------------------|---------------|
| FR-TO |                                  | FROM TO                   |               |                      | FR-TO |                                |               |
| F-B   | -258 / 0                         | 0.0                       | 0.0           | 0.03 (1)             | B-E   | 0 / 0                          | 0.00 (1)      |
| A-B   | 0 / 35                           | -91.8                     | -91.8         | 0.12 (1)             |       |                                |               |
| B-C   | -27 / 0                          | -91.8                     | -91.8         | 0.12 (1)             |       |                                |               |
| F-E   | 0 / 0                            | -18.5                     | -18.5         | 0.02 (4)             |       |                                |               |
| E-D   | 0 / 0                            | -18.5                     | -18.5         | 0.02 (4)             |       |                                |               |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 3 X 9 = 27 lb

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |            |
|------------|------------|
| TOP CH. LL | = 25.6 PSF |
| DL         | = 6.0 PSF  |
| BOT CH. LL | = 0.0 PSF  |
| DL         | = 7.4 PSF  |
| TOTAL LOAD | = 39.0 PSF |

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

##### DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

ALLOWABLE DEFL.(LL) =  $L/360$  (0.19")  
CALCULATED VERT. DEFL.(LL) =  $L/989$  (0.00")  
ALLOWABLE DEFL.(TL) =  $L/360$  (0.19")  
CALCULATED VERT. DEFL.(TL) =  $L/989$  (0.00")

CSI: TC=0.12/1.00 (A-B:1), BC=0.02/1.00 (E-F:4),  
WB=0.00/1.00 (B-E:1), SS=0.08/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

##### NAIL VALUES

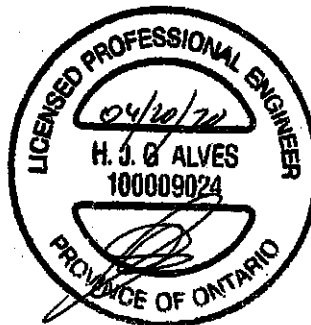
| PLATE GRIP(DRY) | SHEAR                      | SECTION |
|-----------------|----------------------------|---------|
| (PS)            | (PL)                       | (PL)    |
| MAX MIN         | MAX MIN                    | MAX MIN |
| MT20            | 618 354 1667 785 1987 1656 |         |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

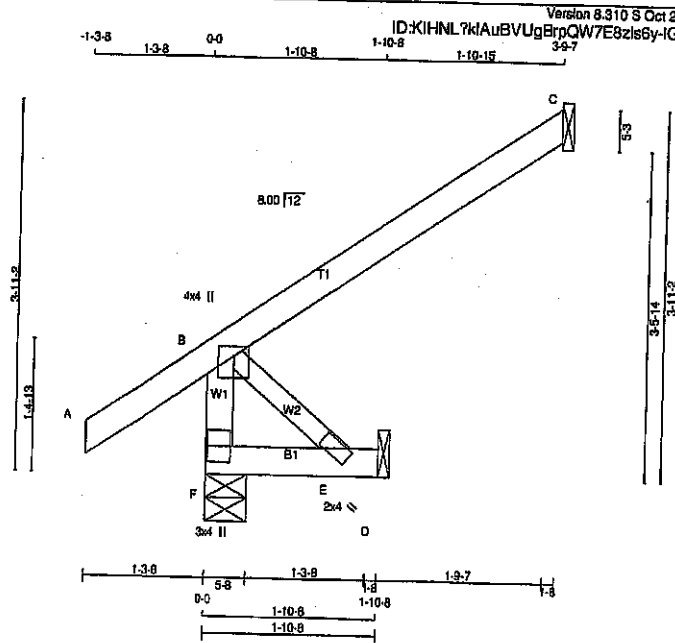
JSI GRIP= 0.18 (B) (INPUT = 0.90)

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



Structural component only  
DWG# T-2006458

|                                 |            |          |     |                  |          |
|---------------------------------|------------|----------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408163                          | J2         | 3        | 1   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            |          |     | TRUSS DESC.      |          |



Version 8.310 S Oct 29 2019 MTEK Industries, Inc. Fri Apr 17 08:45:22 2020 Page 1  
ID:KIHNL7kIAuBVUgBrpQW7E8zls6y-IGc9WDTWhJ5NccPz18pUSke4a5i4w\_41oPOgtzPDXV

Scale = 1/2" = 1'-0"

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

| PLATES (table is in inches) |        |        |     |     |           |
|-----------------------------|--------|--------|-----|-----|-----------|
| JT                          | TYPE   | PLATES | W   | LEN | Y X       |
| B                           | TMVW+p | MT20   | 4.0 | 4.0 | 1.25 2.00 |
| E                           | BMVW+w | MT20   | 2.0 | 4.0 |           |
| F                           | BMVW+p | MT20   | 3.0 | 4.0 |           |

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

| BEARINGS       |                  |       |       |
|----------------|------------------|-------|-------|
| FACTORED       | MAXIMUM FACTORED | INPUT | REQD  |
| GROSS REACTION | GROSS REACTION   | BRG   | BRG   |
| JT VERT HORZ   | DOWN HORZ        | IN-SX | IN-SX |
| F 317 0        | 317 0            | 5-8   | 5-8   |
| C 174 0        | 174 0            | 1-8   | 1-8   |
| D 17 0         | 19 0             | 1-8   | 1-8   |

SEE MITEK STANDARD DETAIL B97791 H FOR CONNECTION TO JOINT(S) C, D

| UNFACTORED REACTIONS |         |                     |           |
|----------------------|---------|---------------------|-----------|
| 1ST CASE             | MAX/MIN | COMPONENT REACTIONS |           |
| JT COMBINED          | SNOW    | LIVE                | PERM/LIVE |
| F 220                | 167/0   | 0/0                 | 0/0       |
| C 120                | 97/0    | 0/0                 | 0/0       |
| D 14                 | 0/0     | 0/0                 | 0/0       |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (5)

| CHORDS |                           |                           |                            |
|--------|---------------------------|---------------------------|----------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. UNBRACED LENGTH FR-TO |
| F-B    | -300/0                    | 0.0                       | 0.03 (1)                   |
| A-B    | 0/35                      | -91.8                     | -91.8 0.13 (5)             |
| B-C    | 0/0                       | -91.8                     | -91.8 0.22 (1)             |
| F-E    | 0/0                       | -18.5                     | -18.5 0.02 (4)             |
| E-D    | 0/0                       | -18.5                     | -18.5 0.01 (4)             |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 25.6 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, CBC 2012, ABC 2019  
- PART 9 OF CBC 2012 (2019 AMENDMENT)  
- CSA 086-09, CSA 086-14  
- TPIC 2011, TPIC 2014

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

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

CS: TC=0.22/1.00 (B-C:1), BC=0.02/1.00 (E-F:4),  
WB=0.00/1.00 (B-E:1), SS=0.11/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

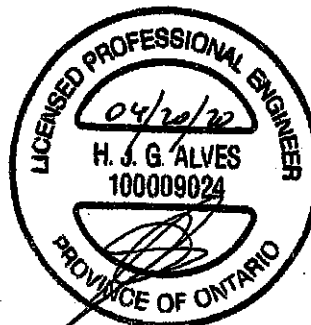
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION (PS) (PL) (PL)  
MAX MIN MAX MIN MAX MIN  
MT20 818 354 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.21 (B) (INPUT = 0.93)  
JSI METAL= 0.08 (B) (INPUT = 1.00)

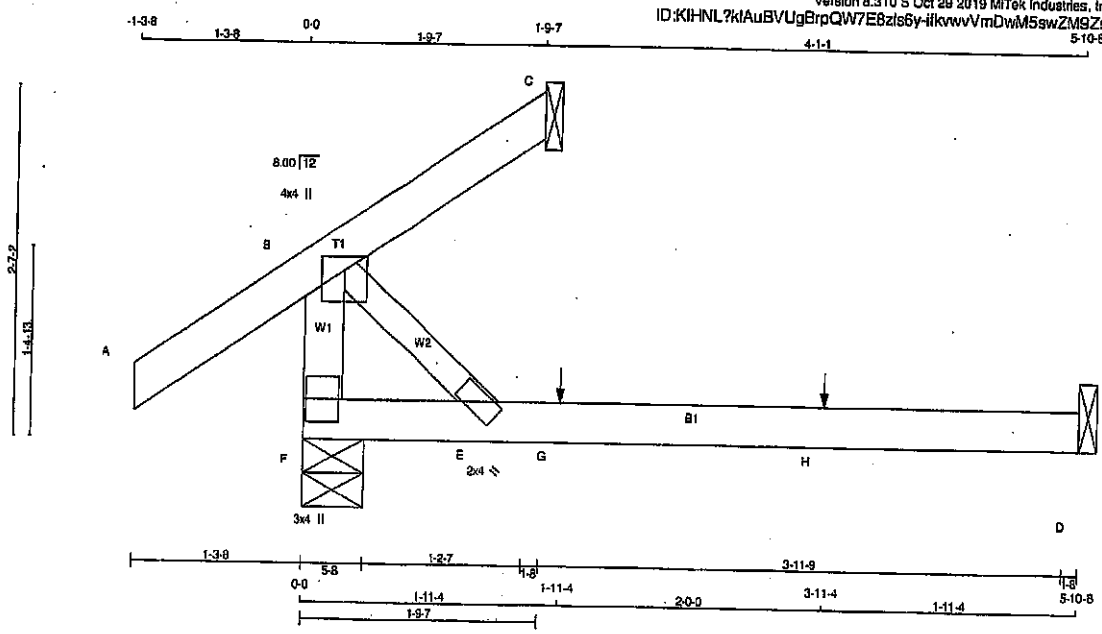


Structural component only  
DWG# T-2006459

|                                 |                  |               |          |                               |          |
|---------------------------------|------------------|---------------|----------|-------------------------------|----------|
| JOB NAME<br>408163              | TRUSS NAME<br>J3 | QUANTITY<br>3 | PLY<br>1 | JOB DESC.<br>GREEN PARK HOMES | DRWG NO. |
| Tamarack Roof Truss, Burlington |                  |               |          | TRUSS DESC.                   |          |

Version 8.310 S Oct 29 2019 MTEK Industries, Inc. Fri Apr 17 08:46:24 2020 Page 1  
ID:KIHNL?kAuBVUgBrpQW7E8zls6y-ikvwwVmDwM5gwZM9ZsyX9JSovMYyqTNV6uVkdzP1XT  
5-10-8

Scale = 1:15.8



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

| PLATES (table is in inches) |        |      |     |               |
|-----------------------------|--------|------|-----|---------------|
| JT TYPE                     | PLATES | W    | LEN | Y X           |
| B                           | TMVW+p | MT20 | 4.0 | 4.0 1.25 2.00 |
| E                           | BMW+w  | MT20 | 2.0 | 4.0           |
| F                           | BMV1+p | MT20 | 3.0 | 4.0           |

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

| BEARINGS |                         |                                 |                 |
|----------|-------------------------|---------------------------------|-----------------|
| JT       | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT REQD. BRG |
| F        | 311                     | 311                             | 5-8             |
| C        | 34                      | 34                              | 5-8             |
| D        | 54                      | 61                              | 1-8             |

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

| UNFACTORED REACTIONS |          |       |      |            |      |      |      |
|----------------------|----------|-------|------|------------|------|------|------|
| JT                   | 1ST CASE | SNOW  | LIVE | PERM. LIVE | WIND | DEAD | SOIL |
| F                    | 220      | 143/0 | 0/0  | 0/0        | 0/0  | 77/0 | 0/0  |
| C                    | 23       | 19/0  | 0/0  | 0/0        | 0/0  | 4/0  | 0/0  |
| D                    | 43       | 0/0   | 0/0  | 0/0        | 0/0  | 43/0 | 0/0  |

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

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

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

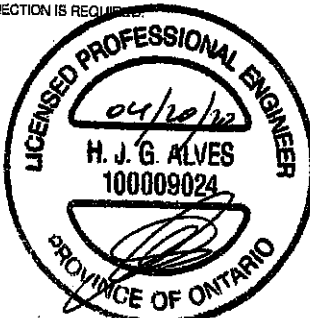
### LOADING

| CHORDS |                           |                           |                           |
|--------|---------------------------|---------------------------|---------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. UNBRACED LENGTH (FT) |
| F-B    | -256/0                    | 0.0                       | 0.03 (1)                  |
| A-B    | 0/35                      | -91.8                     | 0.13 (1)                  |
| B-C    | -27/0                     | -91.8                     | 0.12 (1)                  |
| F-E    | 0/0                       | -18.5                     | 0.13 (4)                  |
| E-G    | 0/0                       | -18.5                     | 0.19 (4)                  |
| G-H    | 0/0                       | -18.5                     | 0.19 (4)                  |
| H-D    | 0/0                       | -18.5                     | 0.19 (4)                  |

| FACTORED CONCENTRATED LOADS (LBS) |        |     |      |
|-----------------------------------|--------|-----|------|
| JT                                | LOC.   | LC1 | MAX. |
| G                                 | 1-11-4 | 1   | 1    |
| H                                 | 3-11-4 | 1   | 1    |

### CONNECTION REQUIREMENTS

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



### DESIGN CRITERIA

**SPECIFIED LOADS:**  
TOP CH. LL = 25.6 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 39.0 PSF

**SPACING = 24.0 IN./C**

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, OBC 2012, ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA C88-09, CSA C88-14  
- TPIC 2011, TPIC 2014

### DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.  
(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.19/1.00 (A-B:1), BC=0.19/1.00 (D-E:4), WB=0.00/1.00 (B-E:1), SI=0.09/1.00 (B-C:1)

DOL LUMBER=0.98 NAIL=0.99 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

**NAIL VALUES**  
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1667 788 1987 1850

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

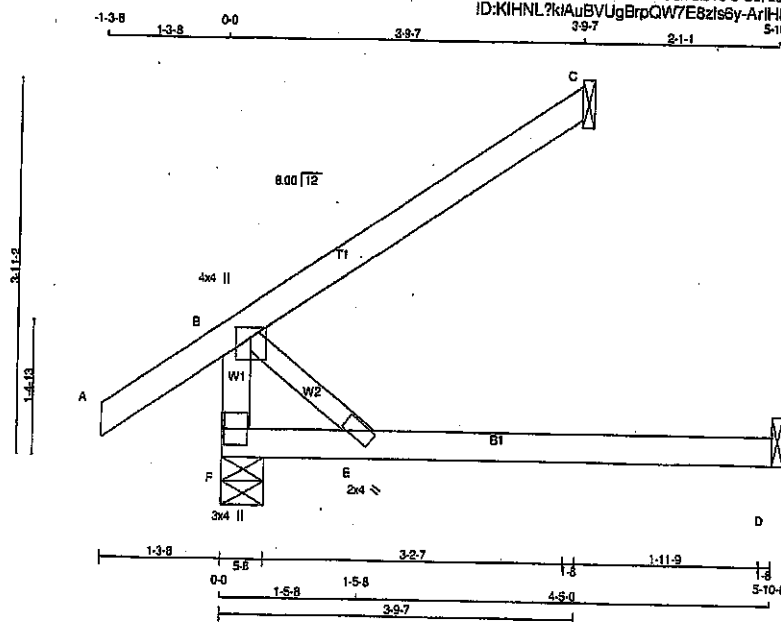
JSI GRIP = 0.18 (B) (INPUT = 0.90)  
JSI METAL = 0.05 (B) (INPUT = 1.00)

|                                 |                  |               |          |                               |          |
|---------------------------------|------------------|---------------|----------|-------------------------------|----------|
| JOB NAME<br>408163              | TRUSS NAME<br>J4 | QUANTITY<br>2 | PLY<br>1 | JOB DESC.<br>GREEN PARK HOMES | DRWG NO. |
| Tamarack Roof Truss, Burlington |                  |               |          |                               |          |

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:46:25 2020 Page 1

ID:KIHNL?kiAuBVUgBrpQW7E8zIs5y-ArIH8FWO\_EUxT47YIGNB4NsbqJinHjWkmd2GCzPdxS

Scale = 1:22.5



#### LUMBER

N. L. G. A. RULES

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

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

#### PLATES (table is in inches)

| JT TYPE  | PLATES | W   | LEN | Y    | X    |
|----------|--------|-----|-----|------|------|
| B TMVW+p | MT20   | 4.0 | 4.0 | 1.25 | 2.00 |
| E BMVW+w | MT20   | 2.0 | 4.0 |      |      |
| F BMV1+p | MT20   | 3.0 | 4.0 |      |      |

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

##### BEARINGS

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----|-------------------------|---------------------------------|-----------|----------|
| JT | VERT                    | DOWN                            | UP        | IN-SX    |
| F  | 354                     | 0                               | 354       | 0        |
| C  | 174                     | 0                               | 174       | 0        |
| D  | 54                      | 0                               | 61        | 0        |

SEE MITEK STANDARD DETAIL B97791 H FOR CONNECTION TO JOINT(S) C, D

##### UNFACTORED REACTIONS

|    | 1ST CASE | MAX. MIN. COMPONENT REACTIONS | WIND  | DEAD       | SOIL   |
|----|----------|-------------------------------|-------|------------|--------|
| JT | COMBINED | SNOW                          | LIVE  | PERM. LIVE |        |
| F  | 250      | 167 / 0                       | 0 / 0 | 0 / 0      | 83 / 0 |
| C  | 120      | 97 / 0                        | 0 / 0 | 0 / 0      | 23 / 0 |
| D  | 43       | 0 / 0                         | 0 / 0 | 0 / 0      | 43 / 0 |

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

##### BRACING

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

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

##### LOADING

TOTAL LOAD CASES: (4)

|       | CHORDS      | MAX. FACTORED    | FACTORED | WEBS     | MAX. FACTORED |
|-------|-------------|------------------|----------|----------|---------------|
| MEMB. | FORCE (LBS) | VERT. LOAD (PLF) | CSI (LC) | MEMB.    | FORCE (LBS)   |
| FR-TO |             |                  |          | FR-TO    |               |
| F-B   | -300 / 0    | 0.0              | 0.0      | 0.03 (1) | 7.81          |
| A-B   | 0 / 35      | -91.8            | -91.8    | 0.12 (1) | 10.00         |
| B-C   | 0 / 0       | -91.8            | -91.8    | 0.22 (1) | 10.00         |
| F-E   | 0 / 0       | -18.5            | -18.5    | 0.14 (4) | 10.00         |
| E-D   | 0 / 0       | -18.5            | -18.5    | 0.19 (4) | 10.00         |

TOTAL WEIGHT = 2 X 16 = 32 lb

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |    |            |
|------------|----|------------|
| TOP CH.    | LL | = 25.6 PSF |
|            | DL | = 6.0 PSF  |
| BOT CH.    | LL | = 0.0 PSF  |
|            | DL | = 7.4 PSF  |
| TOTAL LOAD |    | = 39.0 PSF |

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

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

CSI: TC=0.22/1.00 (B-C:1), BC=0.19/1.00 (D-E:4), WB=0.00/1.00 (B-E:1), SS=0.11/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

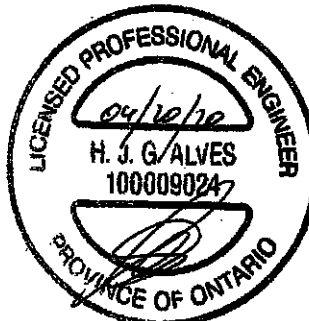
##### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.21 (B) (INPUT = 0.90)  
JSI METAL = 0.08 (B) (INPUT = 1.00)

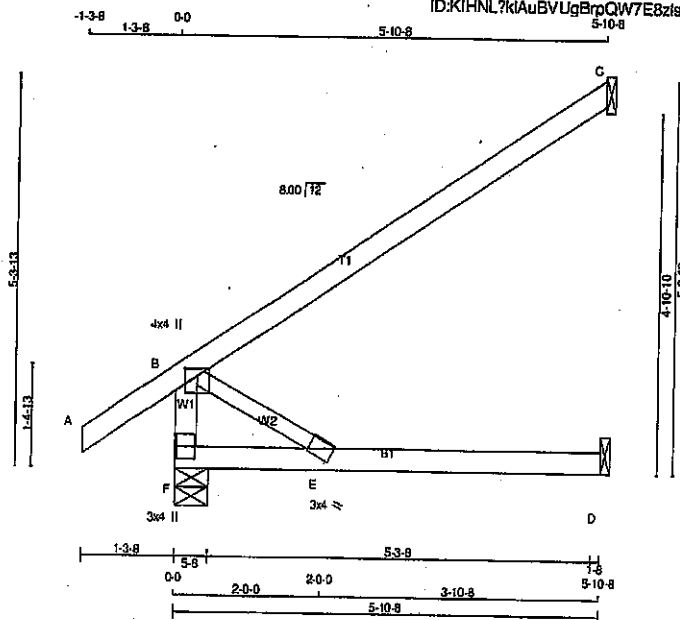


Structural component only  
DWG# T-2006461

|                                 |                         |                       |                 |                                      |          |
|---------------------------------|-------------------------|-----------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>408163</b>       | TRUSS NAME<br><b>J5</b> | QUANTITY<br><b>11</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREEN PARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                         | TRUSS DESC.           |                 |                                      |          |

Version 8.310 S Oct 29 2019 MITek Industries, Inc. Fri Apr 17 08:46:28 2020 Page 1  
ID:KIHNL7KIAuBVUgBrpQW7E8zls6y-e2sgLbX0IXco5EikG\_uQcaOhfi100kzgyQNopezPIXR

Scale = 1:28.8



#### LUMBER

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

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

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

#### DESCR.

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

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

##### BEARINGS

|    | FACTORED       | MAXIMUM FACTORED | INPUT | RECORD  |
|----|----------------|------------------|-------|---------|
|    | GROSS REACTION | GROSS REACTION   | BRG   | BRG     |
| JT | VERT           | HORZ             | DOWN  | UP/LIFT |
| F  | 450            | 0                | 450   | 0       |
| C  | 270            | 0                | 270   | 0       |
| D  | 54             | 0                | 61    | 0       |

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

##### UNFACTORED REACTIONS

|    | 1ST CASE | MAX/MIN. COMPONENT REACTIONS |       |           |       |        |       |
|----|----------|------------------------------|-------|-----------|-------|--------|-------|
| JT | COMBINED | SNOW                         | LIVE  | PERM.LIVE | WIND  | DEAD   | SOIL  |
| F  | 318      | 221 / 0                      | 0 / 0 | 0 / 0     | 0 / 0 | 95 / 0 | 0 / 0 |
| C  | 185      | 150 / 0                      | 0 / 0 | 0 / 0     | 0 / 0 | 35 / 0 | 0 / 0 |
| D  | 43       | 0 / 0                        | 0 / 0 | 0 / 0     | 0 / 0 | 43 / 0 | 0 / 0 |

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

##### BRACING

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

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

##### LOADING

TOTAL LOAD CASES: (4)

| MEMB. | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD LC1 MAX |       |          |               | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |
|-------|---------------------------|-----------------------------|-------|----------|---------------|-------|---------------------------|---------------|
|       |                           | FROM                        | TO    | CS1 (LC) | UNBRAC LENGTH |       |                           |               |
| FR-TO |                           |                             |       |          |               |       |                           |               |
| F-B   | -395 / 0                  | 0.0                         | 0.0   | 0.04 (1) | 7.81          | B-E   | 0 / 0                     | 0.00 (1)      |
| A-B   | 0 / 35                    | -91.8                       | -91.8 | 0.12 (1) | 10.00         |       |                           |               |
| B-C   | 0 / 0                     | -91.8                       | -91.8 | 0.54 (1) | 10.00         |       |                           |               |
| F-E   | 0 / 0                     | -18.5                       | -18.5 | 0.17 (4) | 10.00         |       |                           |               |
| E-D   | 0 / 0                     | -18.5                       | -18.5 | 0.19 (4) | 10.00         |       |                           |               |

TOTAL WEIGHT = 11 X 20 = 215 lb

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |               |
|------------|---------------|
| TOP CH.    | LL = 25.6 PSF |
|            | DL = 6.0 PSF  |
| BOT CH.    | LL = 0.0 PSF  |
|            | DL = 7.4 PSF  |
| TOTAL LOAD | = 39.0 PSF    |

SPACING = 24.0 IN. C/C

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

##### THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

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

CSI: TC=0.54/1.00 (B-C:1), BC=0.19/1.00 (D-E:4), WB=0.00/1.00 (B-E:1), SS=0.17/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

##### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

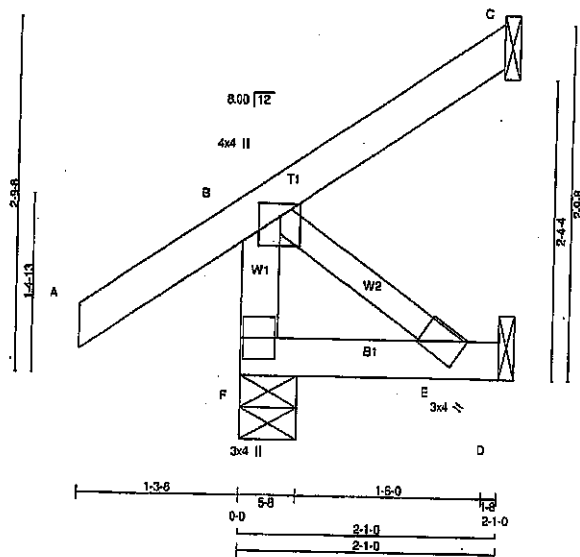
JSI GRIP= 0.28 (B) (INPUT = 0.90)  
JSI METAL= 0.08 (B) (INPUT = 1.00)



Structural component only  
DWG# T-2006462

|                                 |                         |                      |                  |                                      |          |
|---------------------------------|-------------------------|----------------------|------------------|--------------------------------------|----------|
| JOB NAME<br><b>408163</b>       | TRUSS NAME<br><b>J6</b> | QUANTITY<br><b>5</b> | PLY.<br><b>1</b> | JOB DESC.<br><b>GREEN PARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                         |                      |                  |                                      |          |

Version 8.310 S Oct 29 2019 MITek Industries, Inc. Fri Apr 17 08:48:27 2020 Page 1  
ID:KIHNL7kAuBVUgBrpQW7E8zls6y-6EQ2ZxXIVrkfjCHxqhPf9oxzs6PpIBDpB469L4ZPIXQ



Scale = 1:16.8

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

#### PLATES (table is in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMVW+p | MT20   | 4.0 | 4.0 | 1.25 | 2.00 |
| E  | BMW+w  | MT20   | 3.0 | 4.0 |      |      |
| F  | BMVt+p | MT20   | 3.0 | 4.0 |      |      |

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

| BEARINGS |      | FACTORED       | MAXIMUM FACTORED | INPUT | REQD |
|----------|------|----------------|------------------|-------|------|
| JT       | VERT | GROSS REACTION | GROSS REACTION   | BRG   | BRG  |
| F        | 241  | 0              | 241              | 0     | 5-8  |
| C        | 96   | 0              | 96               | 0     | 5-8  |
| D        | 19   | 0              | 22               | 0     | 1-8  |

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

#### UNFACTORED REACTIONS

| JT | 1ST CASE | MAX. MIN. COMPONENT REACTIONS | SNOW  | LIVE  | PERM. LIVE | WIND  | DEAD   | SOIL  |
|----|----------|-------------------------------|-------|-------|------------|-------|--------|-------|
| F  | 168      | 124 / 0                       | 0 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 44 / 0 | 0 / 0 |
| C  | 86       | 53 / 0                        | 0 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 13 / 0 | 0 / 0 |
| D  | 15       | 0 / 0                         | 0 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 15 / 0 | 0 / 0 |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (5)

| CHORDS |             | MAX. FACTORED | FACTORED       | W E B S | MAX. FACTORED |
|--------|-------------|---------------|----------------|---------|---------------|
| MEMB.  | FORCE (LBS) | VERT. LOAD    | LC1 MAX        | MEMB.   | FORCE (LBS)   |
| FR-TO  |             | FROM          | TO             | FR-TO   |               |
| F-B    | -222 / 0    | 0.0           | 0.0 0.02 (1)   | B-E     | 0 / 0         |
| A-B    | 0 / 35      | -91.8         | -91.8 0.12 (5) |         |               |
| B-C    | 0 / 0       | -91.8         | -91.8 0.07 (1) |         |               |
| F-E    | 0 / 0       | -18.5         | -18.5 0.02 (4) |         |               |
| E-D    | 0 / 0       | -18.5         | -18.5 0.02 (4) |         |               |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 5 X 10 = 49 b

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 25.6 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, OBC 2012, ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 086-09, CSA 086-14  
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (0.19")  
CALCULATED VERT. DEFL.(LL) = L/899 (0.00")  
ALLOWABLE DEFL.(TL) = L/360 (0.19")  
CALCULATED VERT. DEFL.(TL) = L/899 (0.00")

CS: TC=0.12/1.00 (A-B:5), BC=0.02/1.00 (E-F:4),  
WB=0.00/1.00 (B-E:1), SS=0.08/1.00 (A-B:5)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

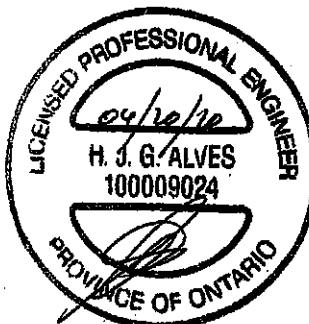
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION  
(PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1687 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.15 (B) (INPUT = 0.30)  
JSI METAL= 0.05 (B) (INPUT = 1.00)

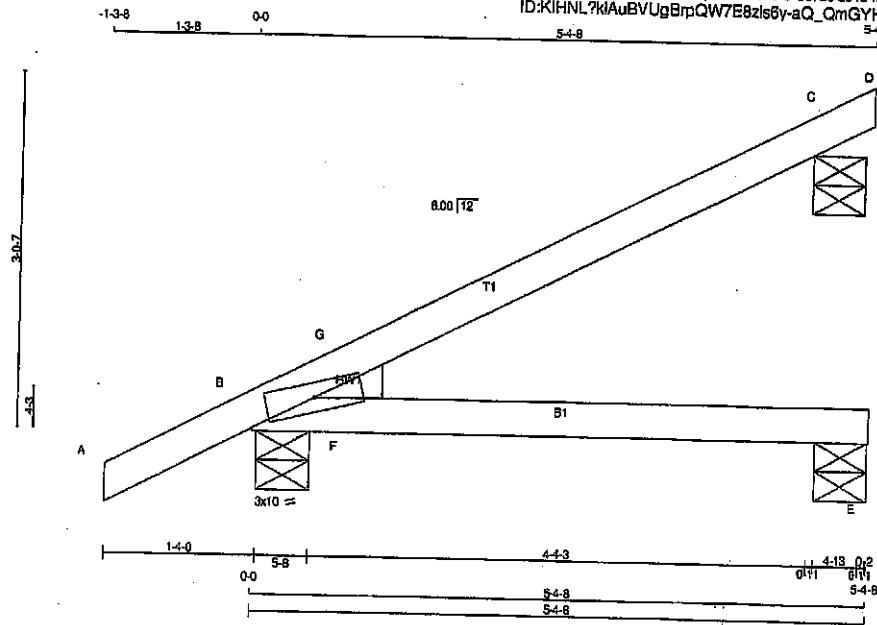


Structural component only  
DWG# T-2006463

|                    |                  |               |          |                               |             |          |
|--------------------|------------------|---------------|----------|-------------------------------|-------------|----------|
| JOB NAME<br>408163 | TRUSS NAME<br>J7 | QUANTITY<br>2 | PLY<br>1 | JOB DESC.<br>GREEN PARK HOMES | TRUSS DESC. | DRWG NO. |
|--------------------|------------------|---------------|----------|-------------------------------|-------------|----------|

Tamarack Roof Truss, Burlington

Version 8.310 5 Oct 2019 Mitek Industries, Inc. Fil Apr 17 08:48:28 2020 Page 1  
ID:KIHNL?kAuBVUGBpQW7E8zls6y-aQ\_QmGYHH9sWKXs7OOwul?U5rWimUeTyQksjXzPIXP



#### LUMBER

N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

#### PLATES (tablets in inches)

| JT TYPE | PLATES  | W    | LEN | Y    | X |
|---------|---------|------|-----|------|---|
| B       | TMBH1-m | MT20 | 3.0 | 10.0 |   |

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

##### BEARINGS

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG IN-SX | REQD BRG IN-SX | HEEL WEDGE |
|----|-------------------------|------|---------------------------------|------|-----------------|----------------|------------|
|    | VERT                    | HORZ | DOWN                            | HORZ |                 |                |            |
| B  | 409                     | 0    | 409                             | 0    | 5-8             | 5-8            | 2x4 L      |
| E  | 80                      | 0    | 80                              | 0    | 5-8             | 5-8            |            |
| C  | 235                     | 0    | 235                             | 0    | 5-8             | 5-8            |            |

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

##### UNFACTORED REACTIONS

| 1ST LCASE |          | MAX./MIN. COMPONENT REACTIONS |      |           |      |      |      |
|-----------|----------|-------------------------------|------|-----------|------|------|------|
| JT        | COMBINED | SNOW                          | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
| B         | 287      | 201/0                         | 0/0  | 0/0       | 0/0  | 86/0 | 0/0  |
| E         | 59       | 21/0                          | 0/0  | 0/0       | 0/0  | 38/0 | 0/0  |
| C         | 182      | 128/0                         | 0/0  | 0/0       | 0/0  | 39/0 | 0/0  |

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

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 0.25 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

##### LOADING

TOTAL LOAD CASES: (4)

| MEMB. | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD |       | MAX. UNBRACED LENGTH | WEBS  | MAX. FACTORED FORCE (LBS) | MAX. FACTORED CSI (LC) |
|-------|---------------------------|---------------------|-------|----------------------|-------|---------------------------|------------------------|
|       |                           | FROM                | TO    |                      |       |                           |                        |
| FR-TO |                           |                     |       |                      |       |                           |                        |
| A-B   | 0/26                      | -91.8               | -91.8 | 0.12 (1)             | 10.00 |                           |                        |
| B-G   | -23/0                     | -91.8               | -91.8 | 0.08 (4)             | 8.25  |                           |                        |
| G-C   | 0/4                       | -91.8               | -91.8 | 0.30 (1)             | 10.00 |                           |                        |
| C-D   | -7/0                      | -91.8               | -91.8 | 0.01 (1)             | 10.00 |                           |                        |
| B-F   | 0/0                       | -18.5               | -18.5 | 0.23 (1)             | 10.00 |                           |                        |
| F-E   | 0/0                       | -18.5               | -18.5 | 0.23 (1)             | 10.00 |                           |                        |

TOTAL WEIGHT = 2 X 15 = 31 lb

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |               |
|------------|---------------|
| TOP CH.    | LL = 25.8 PSF |
|            | DL = 6.0 PSF  |
| BOT CH.    | LL = 0.0 PSF  |
|            | DL = 7.4 PSF  |
| TOTAL LOAD | = 38.0 PSF    |

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-08, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) =  $L/360$  (0.19")  
CALCULATED VERT. DEFL. (LL) =  $L/999$  (0.05")  
ALLOWABLE DEFL. (TL) =  $L/360$  (0.19")  
CALCULATED VERT. DEFL. (TL) =  $L/664$  (0.10")

CSH: TC=0.30/1.00 (C-G:1), BC=0.23/1.00 (E-F:1),  
WB=0.00/1.00 (F-G:1), SS=0.16/1.00 (B-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

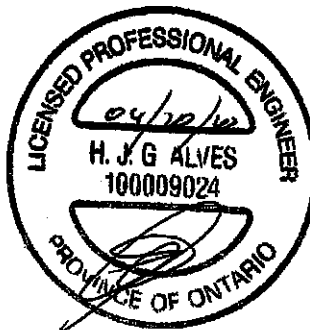
##### NAIL VALUES

| PLATE | GRIP(DRY) | SHEAR    | SECTION   |
|-------|-----------|----------|-----------|
|       | (PS)      | (PL)     | (PL)      |
|       | MAX MIN   | MAX MIN  | MAX MIN   |
| MT20  | 818 354   | 1667 788 | 1987 1856 |

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.11 (B) (INPUT = 0.90)  
JSI METAL = 0.03 (B) (INPUT = 1.00)



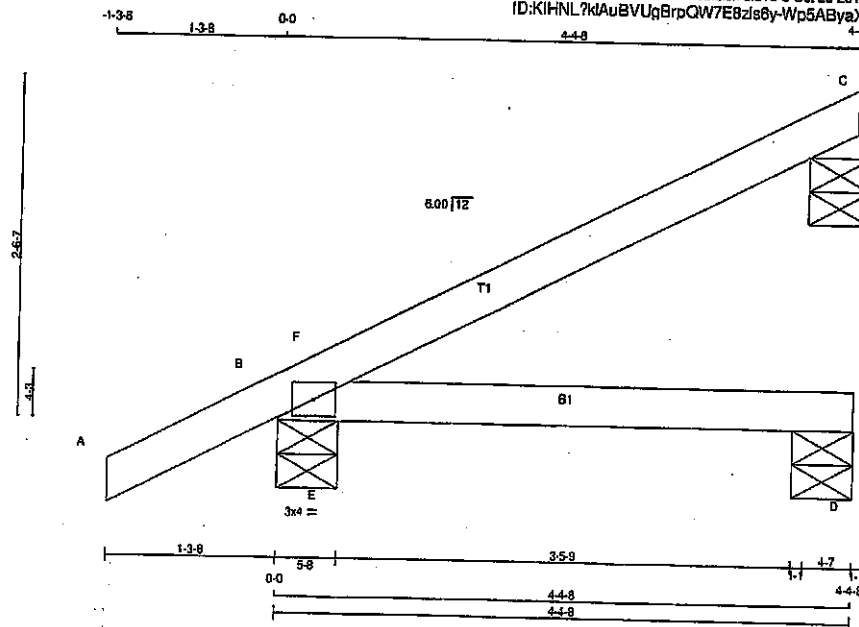
Structural component only  
DWG# T-2006464

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 408163   | J8         | 8        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MITek Industries, Inc. Fri Apr 17 09:46:30 2020 Page 1  
ID: KIHNL7KlAuBVUgBrpQW7E8zls6y-Wp5AByaXom6Ear0WVpyMnQZSWKPMYyF12LpyPzP1XN

Scale: 3/4"=1'



#### LUMBER

N. L. G. A. RULES

| CHORDS | SIZE | LUMBER |
|--------|------|--------|
| A - C  | 2x4  | DRY    |
| B - D  | 2x4  | DRY    |

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

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

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

##### BEARINGS

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG IN-SX | REQD BRG IN-SX |
|----|-------------------------|------|---------------------------------|------|-----------------|----------------|
|    | VERT                    | HORZ | DOWN                            | HORZ |                 |                |
| C  | 175                     | 0    | 175                             | 0    | 5-8 (4-6)       | 5-8            |
| B  | 366                     | 0    | 366                             | 0    | 5-8             | 5-8            |
| D  | 66                      | 0    | 66                              | 0    | 5-8 (5-7)       | 5-8            |

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

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

##### UNFACTORED REACTIONS

| 1ST LCASE |          | MAX./MIN. COMPONENT REACTIONS |      |            |      |      |      |
|-----------|----------|-------------------------------|------|------------|------|------|------|
| JT        | COMBINED | SNOW                          | LIVE | PERM. LIVE | WIND | DEAD | SOIL |
| C         | 121      | 94/0                          | 0/0  | 0/0        | 0/0  | 27/0 | 0/0  |
| B         | 256      | 181/0                         | 0/0  | 0/0        | 0/0  | 75/0 | 0/0  |
| D         | 49       | 18/0                          | 0/0  | 0/0        | 0/0  | 32/0 | 0/0  |

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

##### BRACING

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

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

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                |                      | WEBS  |                           |               |          |  |
|--------|---------------------------|---------------------------|----------------|----------------------|-------|---------------------------|---------------|----------|--|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. LC1 (LC)  | MAX. UNBRACED LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. LC1 (LC) |          |  |
| FR-TO  |                           | TO                        | TO             |                      | FR-TO |                           |               |          |  |
| A-B    | 0/26                      | -91.8                     | -91.8 0.12 (1) | 10.00                | B-F   | -280/6                    |               |          |  |
| B-F    | -20/37                    | -91.8                     | -91.8 0.05 (1) | 6.25                 |       |                           |               | 0.00 (1) |  |
| F-C    | -3/2                      | -91.8                     | -91.8 0.23 (1) | 10.00                |       |                           |               |          |  |
| B-E    | 0/0                       | -18.5                     | -18.5 0.16 (1) | 10.00                |       |                           |               |          |  |
| E-D    | 0/0                       | -18.5                     | -18.5 0.16 (1) | 10.00                |       |                           |               |          |  |

TOTAL WEIGHT = 8 X 12 = 99 lb

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |    |      |      |     |
|------------|----|------|------|-----|
| TOP CH.    | LL | =    | 25.6 | PSF |
| DL         | =  | 6.0  | PSF  |     |
| BOT CH.    | LL | =    | 0.0  | PSF |
| DL         | =  | 7.4  | PSF  |     |
| TOTAL LOAD | =  | 39.0 | PSF  |     |

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCC 2010, CBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 089-09, CSA 085-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL. (LL) =  $L/360$  (0.19")  
CALCULATED VERT. DEFL. (LL) =  $L/999$  (0.02")  
ALLOWABLE DEFL. (TL) =  $L/360$  (0.19")  
CALCULATED VERT. DEFL. (TL) =  $L/999$  (0.04")

CSI: TO=0.23/1.00 (C-F:1), BC=0.16/1.00 (D-E:1),  
WB=0.00/1.00 (E-F:1), SSI=0.23/1.00 (B-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

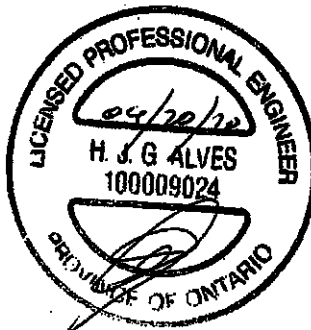
##### NAIL VALUES

| PLATE | GRIP(DRY) | SHEAR | SECTION |
|-------|-----------|-------|---------|
| (PSI) | (PLI)     | (PLI) | (PLI)   |
| MT20  | 618       | 354   | 1657    |
|       |           |       | 788     |
|       |           |       | 1987    |
|       |           |       | 1658    |

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.29 (B) (INPUT = 0.90)  
JSI METAL = 0.08 (B) (INPUT = 1.00)



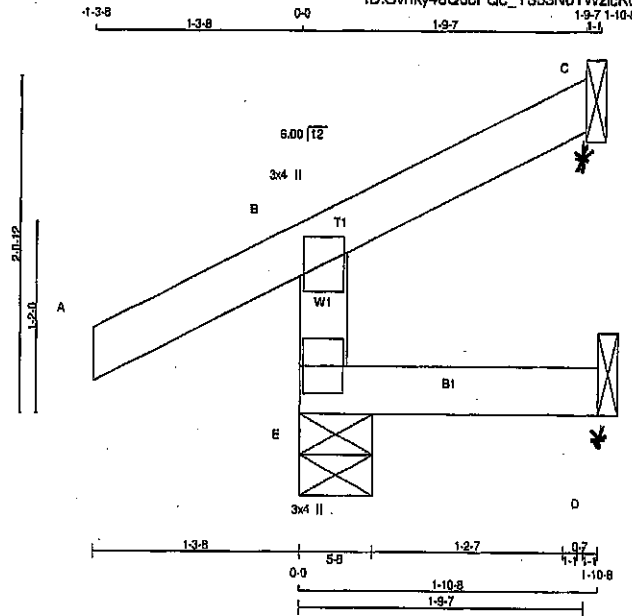
Structural component only  
DWG# T-2006465

|                                 |            |          |     |                  |          |
|---------------------------------|------------|----------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408165                          | J21        | 6        | 1   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            |          |     | TRUSS DESC.      |          |

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:44:08 2020 Page 1

ID:Ovhky48Q0cPQc\_Y353NoTWzlcKo-gVWVOPsSF8DOX09DB?P30Uhd04z4hKoMDyxlyezPzZb

Scale = 1:13.1



#### LUMBER

N. L. G. A. RULES

| CHORDS | SIZE | LUMBER |
|--------|------|--------|
| E - B  | 2x4  | DRY    |
| A - C  | 2x4  | DRY    |
| E - D  | 2x4  | DRY    |

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT TYPE | PLATES | W    | LEN | Y   | X |
|---------|--------|------|-----|-----|---|
| B       | TMV+p  | MT20 | 3.0 | 4.0 |   |
| E       | BMV1+p | MT20 | 3.0 | 4.0 |   |

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

#### BEARINGS

| JT | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----|-------------------------|---------------------------------|-----------|----------|
| E  | 271                     | 0                               | 0         | 5-8      |
| C  | 45                      | 0                               | 45        | 1-8      |
| D  | 8                       | 0                               | 17        | 1-8      |

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

PROVIDE ANCHORAGE AT BEARING JOINT C FOR 150 LBS FACTORED UPLIFT

PROVIDE ANCHORAGE AT BEARING JOINT D FOR 150 LBS FACTORED UPLIFT

#### UNFACTORED REACTIONS

| JT | 1ST CASE | MAX/MIN. COMPONENT REACTIONS | PERM. LIVE | WIND  | DEAD   | SOIL  |
|----|----------|------------------------------|------------|-------|--------|-------|
| E  | 188      | 141 / 0                      | 0 / 0      | 0 / 0 | 47 / 0 | 0 / 0 |
| C  | 31       | 24 / -18                     | 0 / 0      | 0 / 0 | 7 / 0  | 0 / 0 |
| D  | 7        | 0 / -8                       | 0 / 0      | 0 / 0 | 12 / 0 | 0 / 0 |

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

#### BRACING

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

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

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

#### LOADING

TOTAL LOAD CASES: (5)

| MEMB. | CHORDS  | MAX. FACTORED FORCE (LBS) | VERT. LOAD (PL) | FACTORED VERT. LOAD (PL) | MAX. FACTORED UNBRACED LENGTH (LBS) | MAX. FACTORED UNBRACED LENGTH (LBS) |
|-------|---------|---------------------------|-----------------|--------------------------|-------------------------------------|-------------------------------------|
| E-B   | 244 / 0 | 0.0                       | 0.0             | 0.04 (5)                 | 7.81                                |                                     |
| A-B   | 0 / 28  | -91.8                     | -91.8           | 0.12 (1)                 | 10.00                               |                                     |
| B-C   | -17 / 0 | -91.8                     | -91.8           | 0.09 (1)                 | 6.25                                |                                     |
| E-D   | 0 / 0   | -18.5                     | -18.5           | 0.04 (5)                 | 10.00                               |                                     |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 25.6 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, CBC 2012, ABC 2019  
- PART 9 OF CBC 2012 (2019 AMENDMENT)  
- CSA 086-09, CSA 086-14  
- TPI 2011, TPI 2014

#### DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

CSI: TC=0.12/1.00 (A-B:1), BC=0.04/1.00 (D-E:1), WB=0.00/1.00 (A-B:0), SS=0.09/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

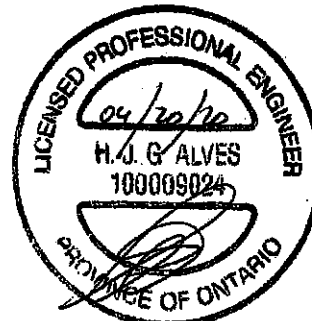
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.10 (E) (INPUT = 0.90)  
JSI METAL= 0.07 (B) (INPUT = 1.00)



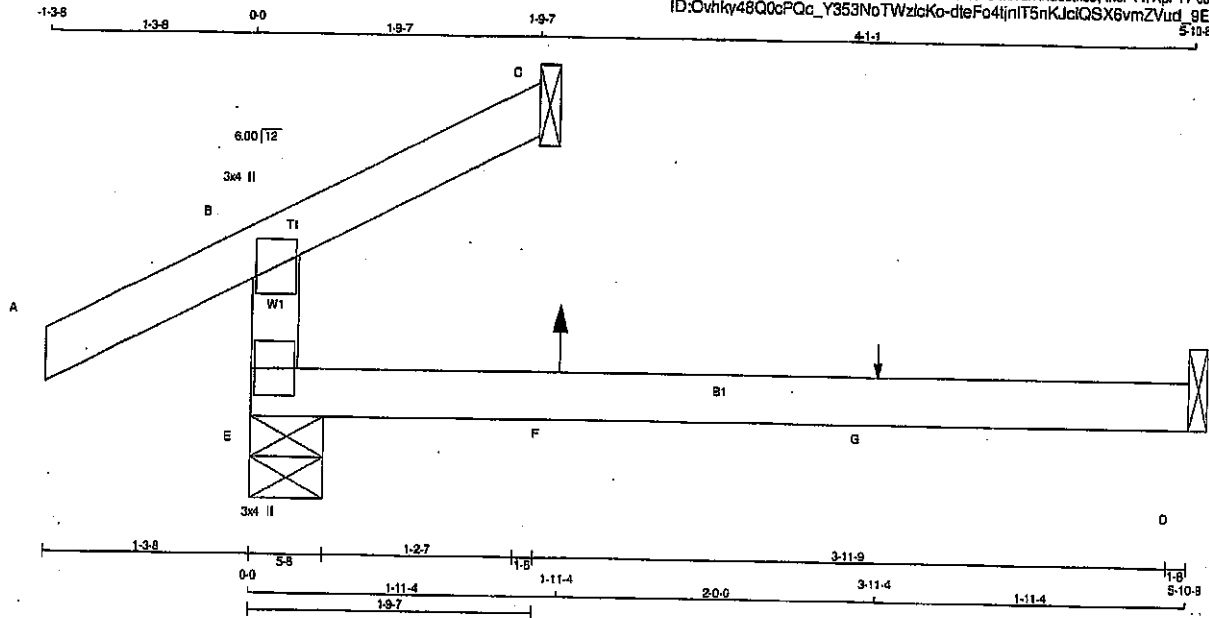
Structural component only  
DWG# T-2006477



|                                 |                   |               |          |                               |          |
|---------------------------------|-------------------|---------------|----------|-------------------------------|----------|
| JOB NAME<br>408165              | TRUSS NAME<br>J23 | QUANTITY<br>2 | PLY<br>1 | JOB DESC.<br>GREEN PARK HOMES | DRWG NO. |
| Tamarack Roof Truss, Burlington |                   |               |          |                               |          |

Version 8.310 S Oct 29 2018 MiTek Industries, Inc. Fri Apr 17 08:44:10 2020 Page 1  
ID: Cwhky48Q0cPQc\_Y353NoTWzicKo-dleFo4jlnIT5nKJclQ5X6vmZVud\_9EehGQP1WzPtZZ  
5-10-8

Scale = 1:12.1



#### LUMBER

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

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

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE   | PLATES | W   | LEN | Y | X |
|----|--------|--------|-----|-----|---|---|
| B  | TMV+p  | MT20   | 3.0 | 4.0 |   |   |
| E  | BMV1+p | MT20   | 3.0 | 4.0 |   |   |

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

##### BUILDING DESIGNER

##### BEARINGS

| JT | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----|-------------------------|---------------------------------|-----------|----------|
| E  | 284                     | 284                             | 5-8       | 5-8      |
| C  | 63                      | 63                              | 1-8       | 1-8      |
| D  | 44                      | 52                              | 1-8       | 1-8      |

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

##### UNFACTORED REACTIONS

| JT | 1ST CASE | SNOW  | LIVE | PERM LIVE | WIND | DEAD | SOIL |
|----|----------|-------|------|-----------|------|------|------|
| E  | 200      | 137.0 | 0.0  | 0.0       | 0.0  | 82.0 | 0.0  |
| C  | 48       | 21.0  | 0.0  | 0.0       | 0.0  | 25.0 | 0.0  |
| D  | 35       | 0.3   | 0.0  | 0.0       | 0.0  | 37.0 | 0.0  |

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

##### BRACING

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

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

##### LOADING

TOTAL LOAD CASES: (7)

| MEMB. | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | FACTORED VERT. LOAD (LC1) | MAX. FACTORED VERT. LOAD (LC1) | MAX. FACTORED VERT. LOAD (LC1) | MAX. FACTORED VERT. LOAD (LC1) | MAX. FACTORED VERT. LOAD (LC1) | MAX. FACTORED VERT. LOAD (LC1) | MAX. FACTORED VERT. LOAD (LC1) |
|-------|---------------------------|---------------------------|---------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| FR-TO |                           |                           |                           |                                |                                |                                |                                |                                |                                |
| E-B   | -227.0                    | 0.0                       | 0.0                       | 0.11 (4)                       | 7.81                           |                                |                                |                                |                                |
| A-B   | 0.28                      | -91.8                     | -91.8                     | 0.12 (1)                       | 10.00                          |                                |                                |                                |                                |
| B-C   | -9.19                     | -91.8                     | -91.8                     | 0.08 (4)                       | 10.00                          |                                |                                |                                |                                |
| E-F   | 0.0                       | -18.5                     | -18.5                     | 0.14 (4)                       | 10.00                          |                                |                                |                                |                                |
| F-G   | 0.0                       | -18.5                     | -18.5                     | 0.14 (4)                       | 10.00                          |                                |                                |                                |                                |
| G-D   | 0.0                       | -18.5                     | -18.5                     | 0.14 (4)                       | 10.00                          |                                |                                |                                |                                |

##### FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.   | LC1 | MAX. | MAX+ | FACE | DIR. | TYPE  | HEEL | CONN. |
|----|--------|-----|------|------|------|------|-------|------|-------|
| F  | 1-11.4 | 7   | 1    | 12   | BACK | VERT | TOTAL |      | C1    |
| G  | 3-11.4 | 1   | 1    |      | BACK | VERT | TOTAL |      | C1    |

##### CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 12 = 23 lb

##### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |           |     |
|------------|-----------|-----|
| TOP CH.    | LL = 25.6 | PSF |
|            | DL = 6.0  | PSF |
| BOT CH.    | LL = 0.0  | PSF |
|            | DL = 7.4  | PSF |
| TOTAL LOAD | = 39.0    | PSF |

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-08, CSA 088-14
- TPIC 2011, TPIC 2014

##### DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

ALLOWABLE DEFL.(LL) =  $L/950$  (0.20")  
CALCULATED VERT. DEFL.(LL) =  $L/999$  (0.01")  
ALLOWABLE DEFL.(TL) =  $L/950$  (0.20")  
CALCULATED VERT. DEFL.(TL) =  $L/999$  (0.04")

CSI: TC=0.12/1.00 (A-B:1), BC=0.14/1.00 (D-E:4), WB=0.00/1.00 (na.0), SSI=0.09/1.00 (A-B:1)

DOL LUMBER=0.99 NAIL=0.99 LS BEND=1.10  
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

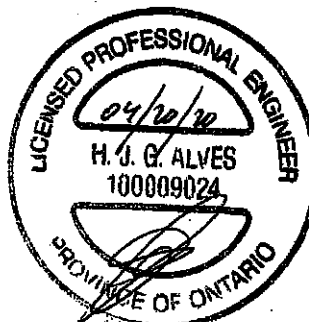
##### NAIL VALUES

| PLATE | GRIP(DRY) | SHEAR    | SECTION   |
|-------|-----------|----------|-----------|
|       | (PSI)     | (PLI)    | (PLI)     |
|       | MAX MIN   | MAX MIN  | MAX MIN   |
| MT20  | 518 354   | 1087 788 | 1987 1656 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.10 (E) (INPUT = 0.90)  
JSI METAL= 0.06 (B) (INPUT = 1.00)



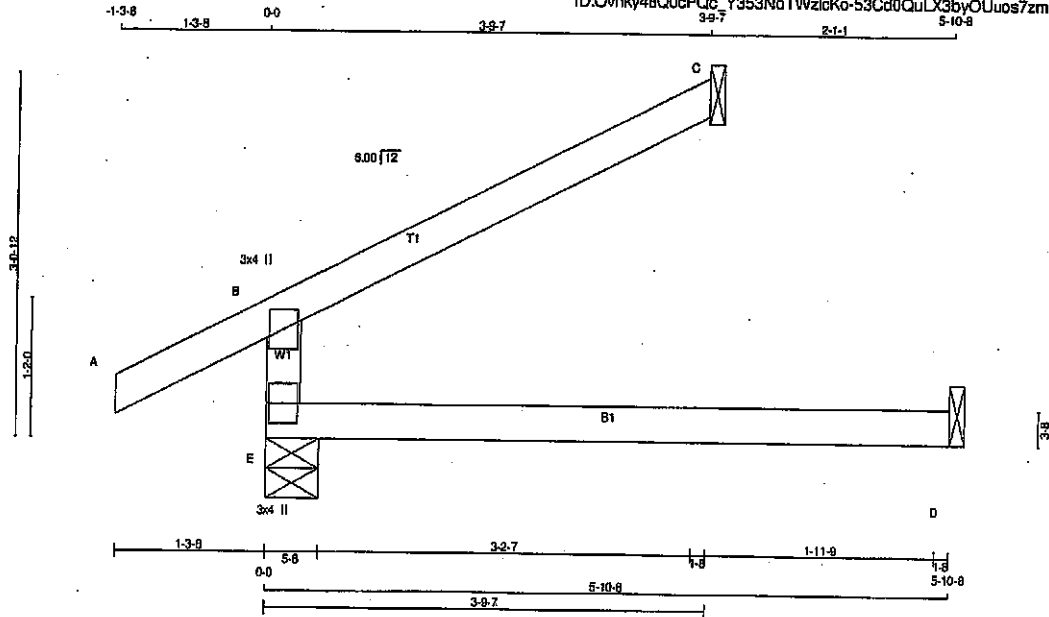
Structural component only  
DWG# T-2006479

|                    |                   |               |          |                               |             |          |
|--------------------|-------------------|---------------|----------|-------------------------------|-------------|----------|
| JOB NAME<br>408165 | TRUSS NAME<br>J24 | QUANTITY<br>2 | PLY<br>1 | JOB DESC.<br>GREEN PARK HOMES | TRUSS DESC. | DRWG NO. |
|--------------------|-------------------|---------------|----------|-------------------------------|-------------|----------|

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:44:11 2020 Page 1  
ID:Ovhky48Q0cPQc\_Y353NaTWzlcKo-53Cd0QuLX3byOUuos7zme6JhetzJuhYowwAzZzzPtZY  
5-10-8

Scale = 1:17.8



#### LUMBER

N. L. G. A. RULES

| CHORDS | SIZE | LUMBER | DESCR. |
|--------|------|--------|--------|
| E - B  | 2x4  | DRY    | SPF    |
| A - C  | 2x4  | DRY    | SPF    |
| E - D  | 2x4  | DRY    | SPF    |

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE   | PLATES | W   | LEN | Y | X |
|----|--------|--------|-----|-----|---|---|
| B  | TMV+p  | MT20   | 3.0 | 4.0 |   |   |
| E  | BMV1+p | MT20   | 3.0 | 4.0 |   |   |

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

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG | REQD BRG |
|----|-------------------------|------|---------------------------------|------|-----------|----------|
|    | VERT                    | HORZ | DOWN                            | HORZ |           |          |
| E  | 405                     | 0    | 405                             | 0    | 5-8       | 5-8      |
| C  | 130                     | 0    | 130                             | 0    | 1-8       | 1-8      |
| D  | 45                      | 0    | 50                              | 0    | 1-8       | 1-8      |

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

#### UNFACTORED REACTIONS

| JT | COMBINED | MAX/MIN. COMPONENT REACTIONS |       | PERM. LIVE | WIND  | DEAD   | SOIL  |
|----|----------|------------------------------|-------|------------|-------|--------|-------|
|    |          | SNOW                         | LIVE  |            |       |        |       |
| E  | 286      | 190 / 0                      | 0 / 0 | 0 / 0      | 0 / 0 | 96 / 0 | 0 / 0 |
| C  | 90       | 73 / 0                       | 0 / 0 | 0 / 0      | 0 / 0 | 17 / 0 | 0 / 0 |
| D  | 36       | 0 / 0                        | 0 / 0 | 0 / 0      | 0 / 0 | 36 / 0 | 0 / 0 |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| FR-TO | CHORDS        |          | FACTORED   |          | MAX. MEMB. FORCE (LBS) | MAX. MEMB. FORCE (LBS) | MAX. MEMB. FORCE (LBS) | MAX. MEMB. FORCE (LBS) |
|-------|---------------|----------|------------|----------|------------------------|------------------------|------------------------|------------------------|
|       | MAX. FACTORED | FACTORED | VERT. LOAD | LC1 MAX  |                        |                        |                        |                        |
| E-B   | 342 / 0       | 0.0      | 0.0        | 0.13 (4) | 7.81                   |                        |                        |                        |
| A-B   | 0 / 28        | -91.8    | -91.8      | 0.12 (1) | 10.00                  |                        |                        |                        |
| B-C   | -19 / 0       | -91.8    | -91.8      | 0.22 (1) | 8.25                   |                        |                        |                        |
| E-D   | 0 / 0         | -18.5    | -18.5      | 0.13 (4) | 10.00                  |                        |                        |                        |

#### DESIGN CRITERIA

SPECIFIED LOADS:

|            |           |     |
|------------|-----------|-----|
| TOP CH.    | LL = 25.5 | PSF |
|            | DL = 6.0  | PSF |
| BOT CH.    | LL = 0.0  | PSF |
|            | DL = 7.4  | PSF |
| TOTAL LOAD | = 39.0    | PSF |

SPACING = 24.0 IN. O.C.

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCC 2010, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 086-14
- TPIC 2011, TPIC 2014

#### DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.5 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) =  $L/360$  (0.20")  
CALCULATED VERT. DEFL.(LL) =  $L/999$  (0.00")  
ALLOWABLE DEFL.(TL) =  $L/360$  (0.20")  
CALCULATED VERT. DEFL.(TL) =  $L/999$  (0.03")

CSI: TC=0.22/1.00 (B-C:1), BC=0.13/1.00 (D-E:4),  
WB=0.00/1.00 (A:0), SSI=0.15/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

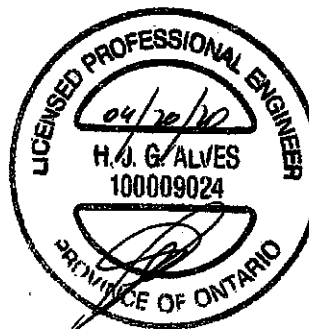
#### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.14 (E) (INPUT = 0.90)  
JSI METAL = 0.09 (B) (INPUT = 1.00)



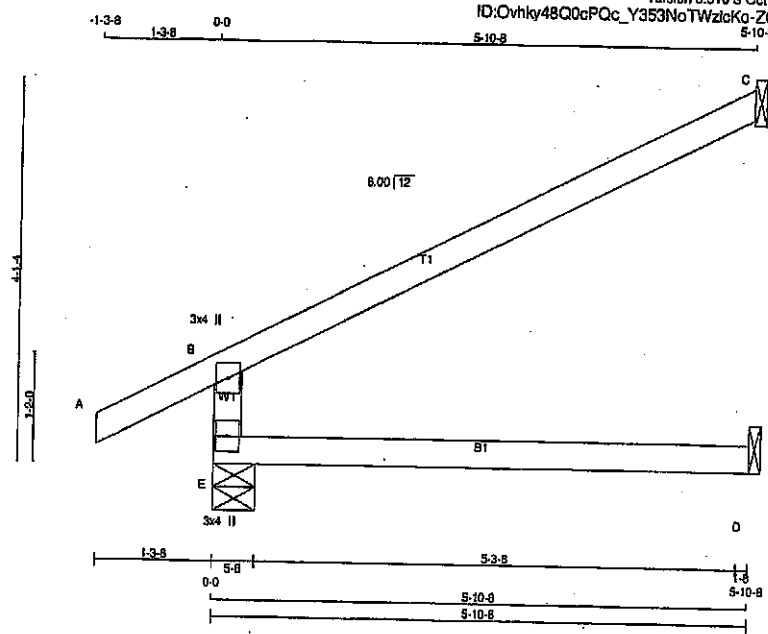
Structural component only  
DWG# T-2006480

|                    |                   |                |          |                               |          |
|--------------------|-------------------|----------------|----------|-------------------------------|----------|
| JOB NAME<br>408165 | TRUSS NAME<br>J25 | QUANTITY<br>11 | PLY<br>1 | JOB DESC.<br>GREEN PARK HOMES | DRWG NO. |
|--------------------|-------------------|----------------|----------|-------------------------------|----------|

Tamarack Row Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:44:12 2020 Page 1  
ID:Ovhly48Q0cPQc\_Y353NoTWzicko-ZGm0DmvzImj0eT\_QqU?BKmShIYd7ox8avW6PzPiZX

Scale = 1:22.5



#### LUMBER

N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

#### PLATES (table in inches)

| JT TYPE | PLATES | W    | LEN | Y   | X |
|---------|--------|------|-----|-----|---|
| B       | TMV+p  | MT20 | 3.0 | 4.0 |   |
| E       | BMV1+p | MT20 | 3.0 | 4.0 |   |

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

##### BEARINGS

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG | RECORD BRG |
|----|-------------------------|------|---------------------------------|------|-----------|------------|
|    | VERT                    | HORZ | DOWN                            | HORZ |           |            |
| E  | 525                     | 0    | 525                             | 0    | 5-8       | 5-8        |
| C  | 202                     | 0    | 202                             | 0    | 1-8       | 1-8        |
| D  | 45                      | 0    | 50                              | 0    | 1-8       | 1-8        |

SEE MITEK STANDARD DETAIL B97781H FOR CONNECTION TO JOINT(S) C, D

##### UNFACTORED REACTIONS

| JT | COMBINED | MAX./MIN. COMPONENT REACTIONS |      |      |           |       |
|----|----------|-------------------------------|------|------|-----------|-------|
|    |          | 1ST LGASE                     | SNOW | LIVE | PERM.LIVE | WIND  |
| E  | 369      | 257.0                         | 0.0  | 0.0  | 0.0       | 111.0 |
| C  | 139      | 113.0                         | 0.0  | 0.0  | 0.0       | 26.0  |
| D  | 36       | 0.0                           | 0.0  | 0.0  | 0.0       | 36.0  |

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

##### 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.  | FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CS (LBS) | MAX. UNBRAC LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CS (LBS) |
| FR-TO  |             | FROM TO                   |               |                    | FR-TO |                           |               |
| E-B    | -461.0      | 0.0                       | 0.0           | 0.13 (4)           |       |                           |               |
| A-B    | 0.28        | -91.8                     | -91.8         | 0.12 (1)           |       |                           |               |
| B-C    | -30.0       | -91.8                     | -91.8         | 0.54 (1)           |       |                           |               |
|        |             |                           |               |                    |       |                           |               |
| E-D    | 0.0         | -18.5                     | -18.5         | 0.13 (4)           |       |                           |               |

TOTAL WEIGHT = 11 X 17 = 185 lb

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |            |
|------------|------------|
| TOP CH. LL | = 25.6 PSF |
| DL         | = 6.0 PSF  |
| BOT CH. LL | = 0.0 PSF  |
| DL         | = 7.4 PSF  |
| TOTAL LOAD | = 39.0 PSF |

SPACING = 24.0 IN./C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 089-14
- TPIC 2011, TPIC 2014

##### DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

ALLOWABLE DEFL. (LL) = L/360 (0.20")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.00")  
ALLOWABLE DEFL. (TL) = L/360 (0.20")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.03")

CSI: TC=0.54/1.00 (B-C:1), BC=0.13/1.00 (D-E:4), WB=0.00/1.00 (n/a:0), SSI=0.24/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

##### NAIL VALUES

| PLATE | GRIP(DRY) |     | SHEAR |     | SECTION |      |
|-------|-----------|-----|-------|-----|---------|------|
|       | (PSI)     |     | (PLI) |     | (PLI)   |      |
|       | MAX       | MIN | MAX   | MIN | MAX     | MIN  |
| MT20  | 618       | 354 | 1667  | 786 | 1987    | 1656 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.19 (E) (INPUT = 0.90)  
JSI METAL= 0.13 (B) (INPUT = 1.00)



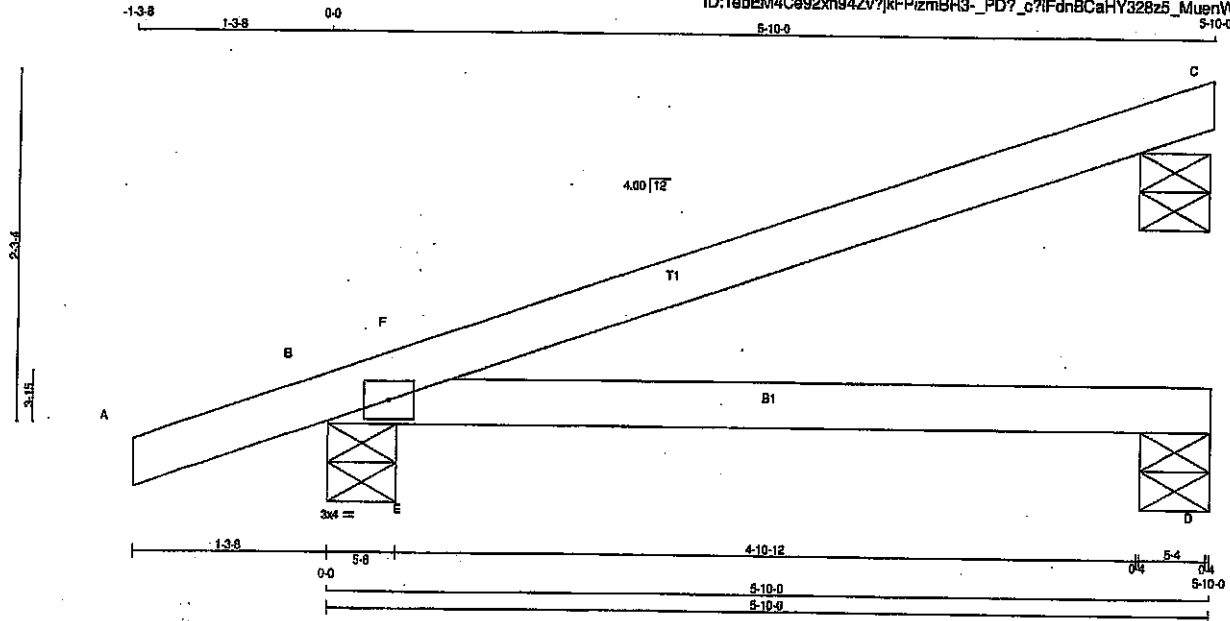
Structural component only  
DWG# T-2006481



|                           |                          |                      |                 |                                      |             |          |
|---------------------------|--------------------------|----------------------|-----------------|--------------------------------------|-------------|----------|
| JOB NAME<br><b>408164</b> | TRUSS NAME<br><b>J27</b> | QUANTITY<br><b>7</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREEN PARK HOMES</b> | TRUSS DESC. | DRWG NO. |
|---------------------------|--------------------------|----------------------|-----------------|--------------------------------------|-------------|----------|

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mittek Industries, Inc. Tue Apr 23 10:55:31 2020 Page 1  
ID:1abEM4Ce92xm94Zv?kFpzmBR3-\_PD?\_c?IFdnBCaHY328z5\_MuenWoVkJD3NzwXczMDcQ



TOTAL WEIGHT = 7 X 15 = 107 lb

**LUMBER**  
N. L. G. A. RULES  
CHORDS SIZE DRY LUMBER  
A - C 2x4 No.2  
B - D 2x4 DRY No.2

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**  
JT TYPE PLATES W LEN Y X  
B TMB1-1 MT20 3.0 4.0

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

**BEARINGS**

|    | FACTORED<br>GROSS REACTION |      | MAXIMUM FACTORED<br>GROSS REACTION |      |        | INPUT<br>BRG | REQD<br>BRG |
|----|----------------------------|------|------------------------------------|------|--------|--------------|-------------|
| JT | VERT                       | HORZ | DOWN                               | HORZ | UPLIFT | IN-SX        | IN-SX       |
| C  | 234                        | 0    | 234                                | 0    | 0      | 5-8          | 5-8         |
| B  | 444                        | 0    | 444                                | 0    | 0      | 5-8          | 5-8         |
| D  | 88                         | 0    | 88                                 | 0    | 0      | 5-8          | 5-8         |

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

**UNFACTORED REACTIONS**

| JT | 1ST CASE | SNOW    | LIVE  | PERM. LIVE | WIND  | DEAD   | SOIL  |
|----|----------|---------|-------|------------|-------|--------|-------|
| C  | 182      | 128 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 36 / 0 | 0 / 0 |
| B  | 312      | 218 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 94 / 0 | 0 / 0 |
| D  | 66       | 23 / 0  | 0 / 0 | 0 / 0      | 0 / 0 | 42 / 0 | 0 / 0 |

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

**BRACING**

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

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

**LOADING**

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                               | WEBS  |                           |                               |                               |
|--------|---------------------------|---------------------------|-------------------------------|-------|---------------------------|-------------------------------|-------------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED VERT. LOAD (LC) | MAX. FACTORED VERT. LOAD (LC) |
| FR-TO  |                           |                           |                               | FR-TO |                           |                               |                               |
| A-B    | 0 / 18                    | -91.8                     | -91.8 0.11 (1)                | 10.00 | E-F                       | -324 / 12                     | 0.00 (1)                      |
| B-F    | -20 / 18                  | -91.8                     | -91.8 0.07 (4)                | 8.25  |                           |                               |                               |
| F-C    | -2 / 2                    | -91.8                     | -91.8 0.41 (1)                | 10.00 |                           |                               |                               |
| B-E    | 0 / 0                     | -18.5                     | -18.5 0.28 (1)                | 10.00 |                           |                               |                               |
| E-D    | 0 / 0                     | -18.5                     | -18.5 0.28 (1)                | 10.00 |                           |                               |                               |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
TOP CH. LL = 25.6 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 39.0 PSF

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBC 2015, NBC 2012, ABC 2019
- PART 9 OF NBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (0.19")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")  
ALLOWABLE DEFL.(TL) = L/360 (0.19")  
CALCULATED VERT. DEFL.(TL) = L/501 (0.14")

CSI: TC=0.41/1.00 (C-F:1), BC=0.28/1.00 (D-E:1), WB=0.00/1.00 (E-F:1), SSI=0.27/1.00 (B-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

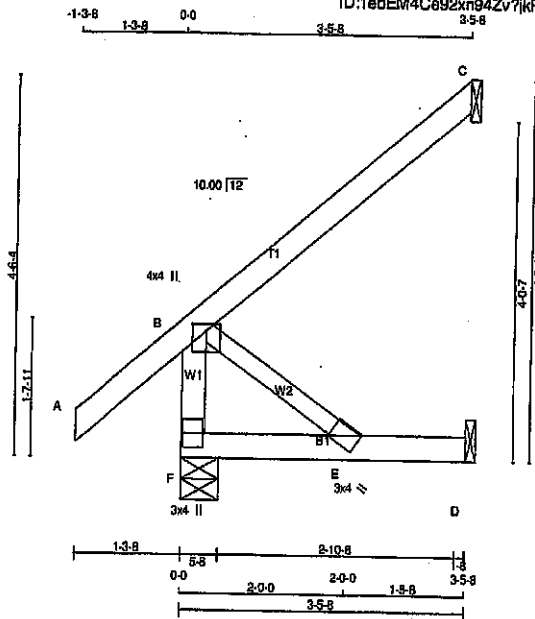
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.29 (B) (INPUT = 0.90)  
JSI METAL= 0.08 (B) (INPUT = 1.00)



Structural component only  
DWG# T-2007731

|                                 |                          |                      |                 |                                      |          |
|---------------------------------|--------------------------|----------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>408164</b>       | TRUSS NAME<br><b>J28</b> | QUANTITY<br><b>7</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREEN PARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 |                                      |          |



#### LUMBER

N. L. G. A. RULES

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

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

#### PLATES (tablets in inches)

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

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

##### BEARINGS

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG | REQD BRG |
|----|-------------------------|------|---------------------------------|------|-----------|----------|
|    | VERT                    | HORZ | DOWN                            | HORZ |           |          |
| F  | 318                     | 0    | 318                             | 0    | 5-8       | 5-8      |
| C  | 159                     | 0    | 159                             | 0    | 1-8       | 1-8      |
| D  | 32                      | 0    | 36                              | 0    | 1-8       | 1-8      |

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

##### UNFACTORED REACTIONS

| 1ST LOASE |          | MAX./MIN. COMPONENT REACTIONS |       |           |       |        |       |
|-----------|----------|-------------------------------|-------|-----------|-------|--------|-------|
| JT        | COMBINED | SNOW                          | LIVE  | PERM.LIVE | WIND  | DEAD   | SOIL  |
| F         | 222      | 159 / 0                       | 0 / 0 | 0 / 0     | 0 / 0 | 63 / 0 | 0 / 0 |
| C         | 109      | 88 / 0                        | 0 / 0 | 0 / 0     | 0 / 0 | 21 / 0 | 0 / 0 |
| D         | 26       | 0 / 0                         | 0 / 0 | 0 / 0     | 0 / 0 | 26 / 0 | 0 / 0 |

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

##### BRACING

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

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

##### LOADING

TOTAL LOAD CASES: (5)

| MEMB. | CHORDS                    |                           | WEBS                      |                           |
|-------|---------------------------|---------------------------|---------------------------|---------------------------|
|       | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (LBS) | MAX. FACTORED FORCE (LBS) | MAX. FACTORED FORCE (LBS) |
| FR-TO |                           |                           |                           |                           |
| F-B   | -286 / 0                  | 0.0                       | 0.0                       | 0.0                       |
| A-B   | 0 / 41                    | -91.8                     | -91.8                     | 0.0                       |
| B-C   | 0 / 0                     | -91.8                     | -91.8                     | 0.0                       |
| F-E   | 0 / 0                     | -18.5                     | -18.5                     | 0.0                       |
| E-D   | 0 / 0                     | -18.5                     | -18.5                     | 0.0                       |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 7 X 14 = 101 lb

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|                       |               |
|-----------------------|---------------|
| TOP CH.               | LL = 25.6 PSF |
| DL = 5.0 PSF          |               |
| BOT CH.               | LL = 0.0 PSF  |
| DL = 7.4 PSF          |               |
| TOTAL LOAD = 39.0 PSF |               |

SPACING = 24.0 IN. O.C.

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (0.19")  
CALCULATED VERT. DEFL.(LL) = L/899 (0.00")  
ALLOWABLE DEFL.(TL) = L/360 (0.19")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.01")

CSI: TC=0.19/1.00 (B-C:1), BC=0.05/1.00 (E-F:4), WB=0.00/1.00 (B-E:1), SS=0.10/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

##### NAIL VALUES

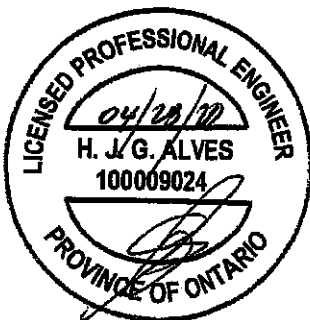
| PLATE | GRIP(DRY) | SHEAR (PSI) | SECTION (PL) |
|-------|-----------|-------------|--------------|
| MT20  | 610       | 354         | 1667         |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.22 (B) (INPUT = 0.80)

JSI METAL= 0.08 (B) (INPUT = 1.00)



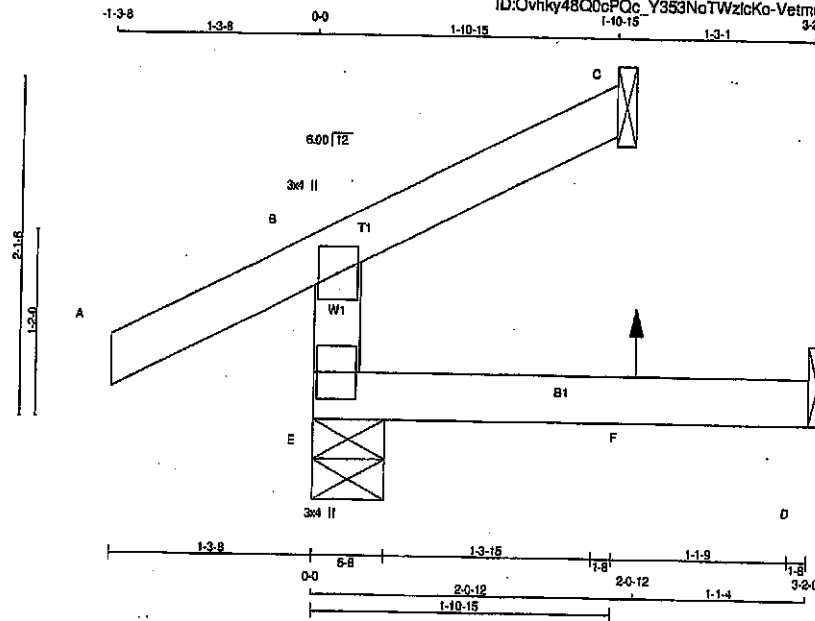
Structural component only  
DWG# T-2007732

|                    |                   |               |          |                               |             |          |
|--------------------|-------------------|---------------|----------|-------------------------------|-------------|----------|
| JOB NAME<br>408165 | TRUSS NAME<br>J31 | QUANTITY<br>2 | PLY<br>1 | JOB DESC.<br>GREEN PARK HOMES | TRUSS DESC. | DRWG NO. |
|--------------------|-------------------|---------------|----------|-------------------------------|-------------|----------|

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:44:14 2020 Page 1  
ID:Ovhky48Q0cPQc\_Y353NoTWzlcKo-VetmsSwDq\_zXFxcNXFWTGikDJVQ0511EcuOdAlzPrZV

Scale = 1:13.4



#### LUMBER

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

DRY: SEASONED LUMBER.

#### PLATES (tablets in inches)

| JT TYPE | PLATES | W    | LEN | Y   | X |
|---------|--------|------|-----|-----|---|
| B       | TWV+p  | MT20 | 3.0 | 4.0 |   |
| E       | BMV1+p | MT20 | 3.0 | 4.0 |   |

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

| DESCR. | SPF | SPF | SPF | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|--------|-----|-----|-----|-------------------------|---------------------------------|-----------|----------|
| JT     |     |     |     | VERT                    | DOWN                            | UP        | IN-SX    |
| E      |     |     |     | 284                     | 0                               | 0         | 5-8      |
| C      |     |     |     | 66                      | 0                               | 0         | 1-8      |
| D      |     |     |     | 21                      | 0                               | 0         | 1-8      |

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

#### UNFACTORED REACTIONS

| JT | 1ST CASE | MAX. MIN. COMPONENT REACTIONS | SNOW | LIVE    | PERM. LIVE | WIND  | DEAD   | SOIL  |
|----|----------|-------------------------------|------|---------|------------|-------|--------|-------|
| E  |          |                               | 185  | 128 / 0 | 0 / 0      | 0 / 0 | 57 / 0 | 0 / 0 |
| C  |          |                               | 46   | 37 / 0  | 0 / 0      | 0 / 0 | 9 / 0  | 0 / 0 |
| D  |          |                               | 0    | 0 / 0   | 0 / 0      | 0 / 0 | 20 / 0 | 0 / 0 |

| JT | 2ND CASE | MAX. MIN. COMPONENT REACTIONS | SNOW | LIVE    | PERM. LIVE | WIND  | DEAD   | SOIL  |
|----|----------|-------------------------------|------|---------|------------|-------|--------|-------|
| E  |          |                               | 185  | 128 / 0 | 0 / 0      | 0 / 0 | 57 / 0 | 0 / 0 |
| C  |          |                               | 46   | 37 / 0  | 0 / 0      | 0 / 0 | 9 / 0  | 0 / 0 |
| D  |          |                               | 0    | 0 / 0   | 0 / 0      | 0 / 0 | 20 / 0 | 0 / 0 |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (8)

| MEMB. | CHORDS | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | FACTORED LOAD LC1 (PLF) | MAX. UNBRACED LENGTH (FT) | W EBS | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (FT) |
|-------|--------|---------------------------|---------------------------|-------------------------|---------------------------|-------|---------------------------|---------------------------|
| FR-TO |        |                           |                           |                         |                           |       |                           |                           |
| E-B   |        | -234 / 0                  | 0.0                       | 0.0                     | 0.03 (4)                  | 7.81  |                           |                           |
| A-B   |        | 0 / 28                    | -91.8                     | -91.8                   | 0.13 (5)                  | 10.00 |                           |                           |
| B-C   |        | -10 / 0                   | -91.8                     | -91.8                   | 0.08 (1)                  | 10.00 |                           |                           |
| E-F   |        | 0 / 0                     | -18.5                     | -18.5                   | 0.04 (4)                  | 10.00 |                           |                           |
| F-D   |        | 0 / 0                     | -18.5                     | -18.5                   | 0.04 (4)                  | 10.00 |                           |                           |

#### FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.   | LC1 | MAX. | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|--------|-----|------|------|-------|------|-------|------|-------|
| F  | 2-0-12 | 7   | 1    | 12   | FRONT | VERT | TOTAL |      | C1    |

#### CONNECTION REQUIREMENTS

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

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 25.6 PSF  
OL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
OL = 7.4 PSF  
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. O/C

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, OBC 2012, ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 086-08, CSA 086-14  
- TPIC 2011, TPIC 2014

#### DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

CS: TC=0.13/1.00 (A-B-5), BC=0.04/1.00 (D-E-4),  
WB=0.00/1.00 (n/a-0), SS=0.10/1.00 (A-B-5)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

#### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.10 (E) (INPUT = 0.90)  
JSI METAL= 0.05 (B) (INPUT = 1.00)

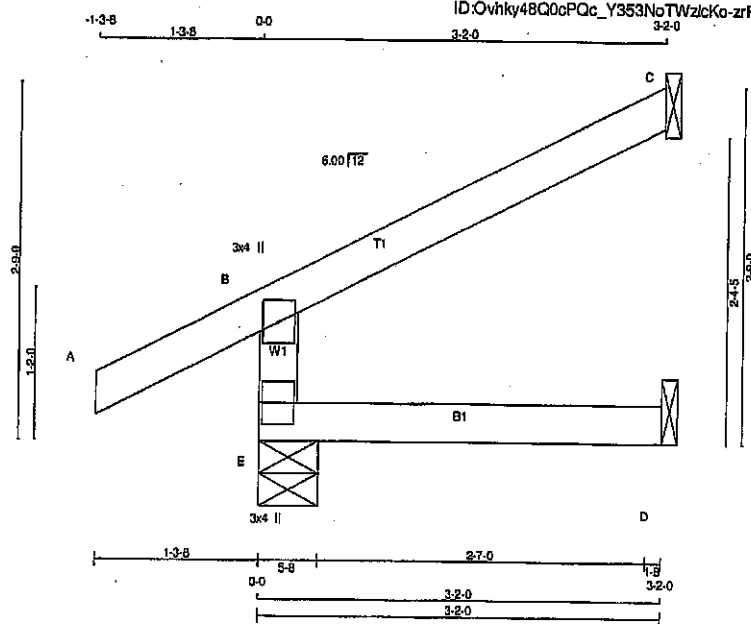


Structural component only  
DWG# T-2006482

|                                 |            |             |     |                                                                                    |          |
|---------------------------------|------------|-------------|-----|------------------------------------------------------------------------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY    | PLY | JOB DESC.                                                                          | DRWG NO. |
| 408165                          | J32        | 3           | 1   | GREEN PARK HOMES                                                                   |          |
| Tamarack Roof Truss, Burlington |            | TRUSS DESC. |     | Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:44:15 2020 Page 1 |          |

ID:Ovhky48Q0cPQc\_Y353NoTWzlcKo-zrRBsoxbH5O15BZ5z1pyTOhwMfqUXNqYBAkzPZL

Scale = 1:16.4



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

DRY: SEASONED LUMBER.

| PLATES (table is in inches) |        |        |     |         |
|-----------------------------|--------|--------|-----|---------|
| JT                          | TYPE   | PLATES | W   | LEN Y X |
| B                           | TMV+p  | MT20   | 3.0 | 4.0     |
| E                           | BMV1+p | MT20   | 3.0 | 4.0     |

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

| BEARINGS |                | FACTORED       | MAXIMUM FACTORED | INPUT | REQD |
|----------|----------------|----------------|------------------|-------|------|
| JT       | GROSS REACTION | GROSS REACTION | GROSS REACTION   | BRG   | BRG  |
| E        | 339            | 0              | 339              | 0     | 5-8  |
| C        | 109            | 0              | 109              | 0     | 1-8  |
| D        | 25             | 0              | 25               | 0     | 1-8  |

SEE MITEK STANDARD DETAIL 897791H FOR CONNECTION TO JOINT(S) C, D

| UNFACTORED REACTIONS |          | 1ST LGASE | MAX/MIN. COMPONENT REACTIONS  |
|----------------------|----------|-----------|-------------------------------|
| JT                   | COMBINED | SNOW      | LIVE PERM.LIVE WIND DEAD SOIL |
| E                    | 237      | 171/0     | 0/0 0/0 0/0 67/0 0/0          |
| C                    | 75       | 61/0      | 0/0 0/0 0/0 14/0 0/0          |
| D                    | 20       | 0/0       | 0/0 0/0 0/0 20/0 0/0          |

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

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

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

**LOADING**  
TOTAL LOAD CASES: (5)

| CHORDS |                              |                                     | WEBS                     |       |                              |
|--------|------------------------------|-------------------------------------|--------------------------|-------|------------------------------|
| MEMB.  | MAX. FACTORED<br>FORCE (LBS) | FACTORED<br>VERT. LOAD LC1<br>(PLF) | MAX<br>CSI (LC)          | MEMB. | MAX. FACTORED<br>FORCE (LBS) |
| FR-TO  |                              | FROM TO                             | MAX.<br>UNBRAC<br>LENGTH | FR-TO | MAX<br>CSI (LC)              |
| E-B    | -306/0                       | 0.0 0.0                             | 0.03 (4)                 | 7.81  |                              |
| A-B    | 0/28                         | -91.8 -91.8                         | 0.13 (5)                 | 10.00 |                              |
| B-C    | -16/0                        | -91.8 -91.8                         | 0.16 (1)                 | 6.25  |                              |
| E-D    | 0/0                          | -18.5 -18.5                         | 0.04 (4)                 | 10.00 |                              |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
TOP CH. LL = 25.8 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 39.0 PSF

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

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, OBC 2012, ABC 2019  
- PART 9 OF OBC 2012 (2015 AMENDMENT)  
- CSA 086-09, CSA 086-14  
- TPIC 2011, TPIC 2014

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.19")  
CALCULATED VERT. DEFL.(LL) = L/899 (0.00")  
ALLOWABLE DEFL.(TL) = L/360 (0.19")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.00")

CSI: TC=0.16/1.00 (B-C:1), BC=0.04/1.00 (D-E:4), WB=0.00/1.00 (n/a:0), SSI=0.13/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

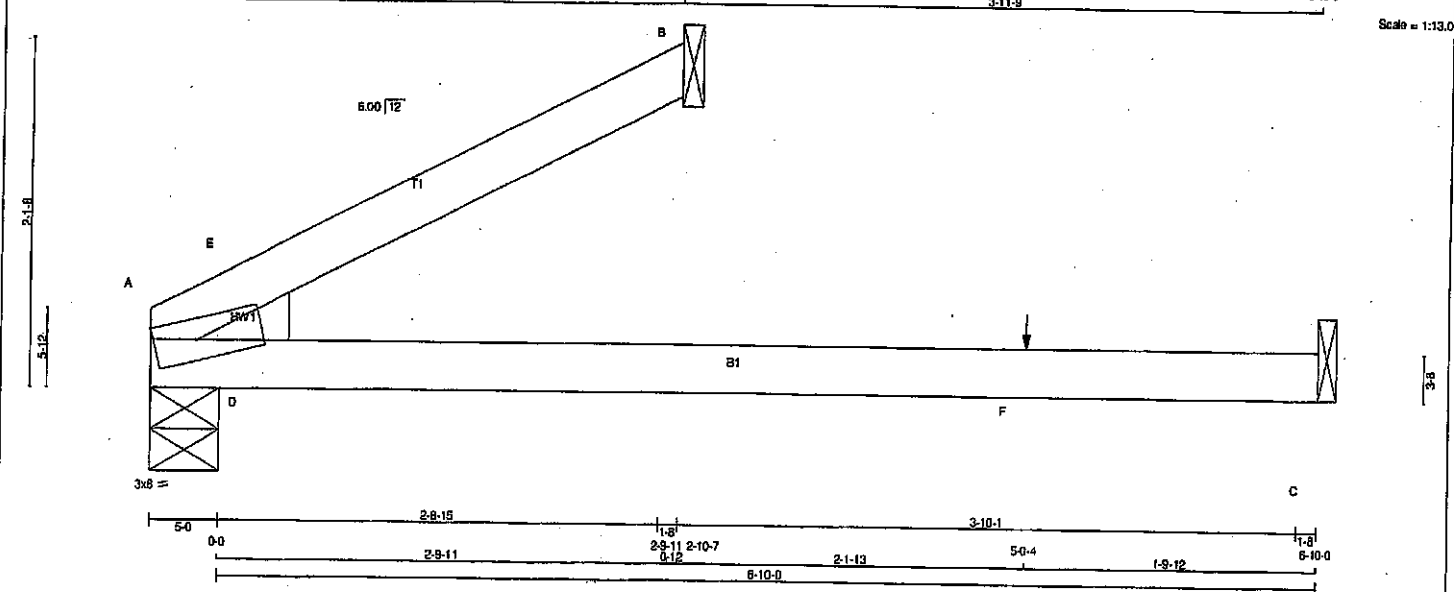
JSI GRIP= 0.13 (E) (INPUT = 0.90)  
JSI METAL= 0.08 (B) (INPUT = 1.00)



Structural component only  
DWG# T-2006483

|                                 |                          |                      |                 |                                      |          |
|---------------------------------|--------------------------|----------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>408165</b>       | TRUSS NAME<br><b>J33</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREEN PARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 |                                      |          |

Version 8.310 9 Oct 2019 Mitek Industries, Inc. Fri Apr 17 08:44:16 2020 Page 1  
ID:Ovhky48Q0cPQc\_Y353NoTWzlcKo-R1?W38yUMbDFVfmitgZxLA0YZJgdZmX3CkFAzPIZT  
Scale = 1:13.0



#### LUMBER

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

DRY: SEASONED LUMBER.

#### PLATES (tablets in inches)

|         |        |      |     |     |      |
|---------|--------|------|-----|-----|------|
| JT TYPE | PLATES | W    | LEN | Y   | X    |
| A       | TMH1-m | MT20 | 3.0 | 8.0 | Edge |

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

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

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG | REQD BRG | HEEL  |
|----|-------------------------|------|---------------------------------|------|-----------|----------|-------|
|    | VERT                    | HORZ | DOWN                            | HORZ |           |          |       |
| A  | 209                     | 0    | 209                             | 0    | 5-0       | 5-0      | 2x4 L |
| B  | 168                     | 0    | 168                             | 0    | 1-8       | 1-8      |       |
| C  | 60                      | 0    | 61                              | 0    | 1-8       | 1-8      |       |

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

#### UNFACTORED REACTIONS

| JT | 1ST CASE COMBINED | MAX/MIN. COMPONENT REACTIONS |       |            |       |        |       |
|----|-------------------|------------------------------|-------|------------|-------|--------|-------|
|    |                   | SNOW                         | LIVE  | PERM. LIVE | WIND  | DEAD   | SOIL  |
| A  | 150               | 89 / 0                       | 0 / 0 | 0 / 0      | 0 / 0 | 61 / 0 | 0 / 0 |
| B  | 118               | 75 / 0                       | 0 / 0 | 0 / 0      | 0 / 0 | 43 / 0 | 0 / 0 |
| C  | 47                | 4 / 0                        | 0 / 0 | 0 / 0      | 0 / 0 | 43 / 0 | 0 / 0 |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| MEMB. | CHORDS           |                  | FACTORED |            | WEBS                 |       | FACTORED         |           |
|-------|------------------|------------------|----------|------------|----------------------|-------|------------------|-----------|
|       | MAX. FORCE (LBS) | VERT. LOAD (LBS) | LC1      | MAX. (PLF) | MAX. UNBRACED LENGTH | FR-TO | MAX. FORCE (LBS) | MAX. (LC) |
| FR-TO |                  |                  |          |            |                      |       |                  |           |
| A-E   | -113 / 0         | -91.8            | -91.8    | 0.16 (4)   | 6.25                 | D-E   | 0 / 163          | 0.00 (1)  |
| E-B   | 0 / 20           | -91.8            | -91.8    | 0.21 (4)   | 10.00                |       |                  |           |
| A-D   | 0 / 0            | -18.5            | -18.5    | 0.11 (4)   | 10.00                |       |                  |           |
| D-F   | 0 / 0            | -18.5            | -18.5    | 0.18 (4)   | 10.00                |       |                  |           |
| F-C   | 0 / 0            | -18.5            | -18.5    | 0.19 (4)   | 10.00                |       |                  |           |

#### FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.  | LC1 | MAX- | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|-------|-----|------|------|-------|------|-------|------|-------|
| F  | 5-0-4 | 1   | 1    |      | FRONT | VERT | TOTAL |      | C1    |

#### CONNECTION REQUIREMENTS

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

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |           |     |
|------------|-----------|-----|
| TOP CH.    | LL = 25.6 | PSF |
| DL = 8.0   | PSF       |     |
| BOT CH.    | LL = 0.0  | PSF |
| DL = 7.4   | PSF       |     |
| TOTAL LOAD | = 39.0    | PSF |

SPACING = 24.0 IN. C/C

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

##### THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 088-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (0.24")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")  
ALLOWABLE DEFL.(TL) = L/360 (0.24")  
CALCULATED VERT. DEFL.(TL) = L/904 (0.10")

CSI: TC=0.21/1.00 (B-E:4), BC=0.19/1.00 (C-D:4),  
WB=0.00/1.00 (D-E:1), SS=0.15/1.00 (A-E:4)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

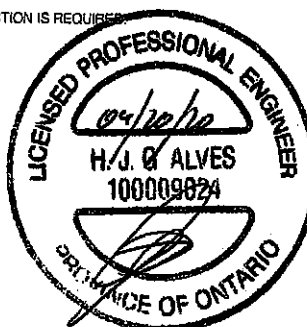
#### NAIL VALUES

| PLATE   | GRIP(DRY) | SHEAR    | SECTION   |
|---------|-----------|----------|-----------|
| (PSI)   | (PLI)     | (PLI)    | (PLI)     |
| MAX MIN | MAX MIN   | MAX MIN  | MAX MIN   |
| MT20    | 518 354   | 1657 788 | 1957 1658 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.07 (A) (INPUT = 0.90)  
JSI METAL = 0.01 (A) (INPUT = 1.00)

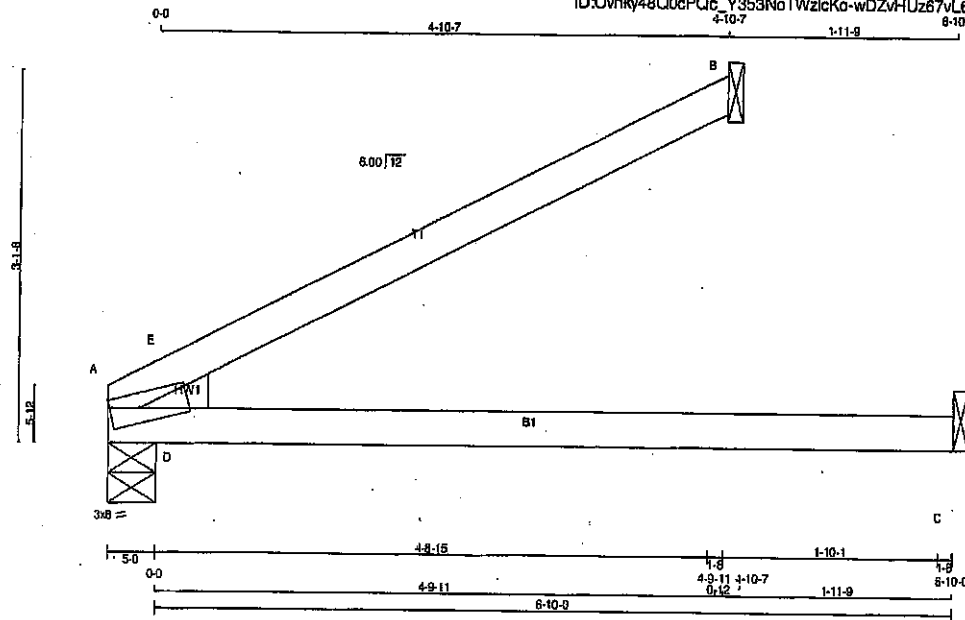


Structural component only  
DWG# T-2006484

|                                 |                          |                      |                 |                                      |          |
|---------------------------------|--------------------------|----------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>408165</b>       | TRUSS NAME<br><b>J34</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREEN PARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 |                                      |          |

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:44:17 2020 Page 1  
ID:Ovhky48Q0cPQ6\_Y353NoTWzicKo-wDZvHUz67vL67PLyCO4AuNZhki75IO1glsdHndzPlZS

Scale = 1:17.9



TOTAL WEIGHT = 16 lb

#### LUMBER

N. L. G. A. RULES

CHORDS SIZE

A - B 2x4 DRY No.2

A - C 2x4 DRY No.2

DRY: SEASONED LUMBER.

LUMBER

No.2

DESCR.

SPF

SPF

#### PLATES (table is in inches)

JT TYPE PLATES

A TBMH1-m MT20

W

LEN

Y

X

Edge

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

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

##### BEARINGS

| JT | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG | HEEL WEDGE |
|----|-------------------------|---------------------------------|-----------|----------|------------|
| A  | 314                     | 314                             | 0         | 0        | 2x4 L      |
| B  | 225                     | 225                             | 0         | 0        | 1-8        |
| C  | 60                      | 60                              | 0         | 0        | 1-8        |

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

##### UNFACTORED REACTIONS

| JT | 1ST CASE | SNOW    | LIVE  | PERM. LIVE | WIND  | DEAD   | SOIL  |
|----|----------|---------|-------|------------|-------|--------|-------|
| A  | 223      | 140 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 83 / 0 | 0 / 0 |
| B  | 157      | 117 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 40 / 0 | 0 / 0 |
| C  | 61       | 13 / 0  | 0 / 0 | 0 / 0      | 0 / 0 | 48 / 0 | 0 / 0 |

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

##### BRACING

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

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

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

##### LOADING

TOTAL LOAD CASES: (4)

| MEMB. | CHORDS MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CSI (LC) | MAX. UNBRAC LENGTH | WEBS MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |
|-------|----------------------------------|---------------------------|---------------|--------------------|--------------------------------|---------------|
| FR-TO |                                  |                           |               |                    |                                |               |
| A-E   | -73 / 0                          | -91.8                     | -91.8         | 0.12 (4)           | 8.25                           | 10.00         |
| E-B   | 0 / 7                            | -91.8                     | -91.8         | 0.38 (1)           | 10.00                          |               |
| A-D   | 0 / 0                            | -18.5                     | -18.5         | 0.17 (1)           | 10.00                          |               |
| D-C   | 0 / 0                            | -18.5                     | -18.5         | 0.23 (1)           | 10.00                          |               |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|              |               |
|--------------|---------------|
| TOP CH.      | LL = 25.6 PSF |
| DL = 6.0 PSF |               |
| BOT CH.      | LL = 9.0 PSF  |
| DL = 7.4 PSF |               |
| TOTAL LOAD   | = 39.0 PSF    |

SPACING = 24.0 IN. O.C.

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

##### THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCG 2010, NBCG 2012, ABC 2019
- PART 9 OF NBCG 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(65% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.24")  
CALCULATED VERT. DEFL.(LL) = L/989 (0.08")  
ALLOWABLE DEFL.(TL) = L/360 (0.24")  
CALCULATED VERT. DEFL.(TL) = L/455 (0.19")

CSI: TC=0.38/1.00 (B-E:1), BC=0.23/1.00 (C-D:1), WB=0.00/1.00 (D-E:1), SSI=0.18/1.00 (B-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

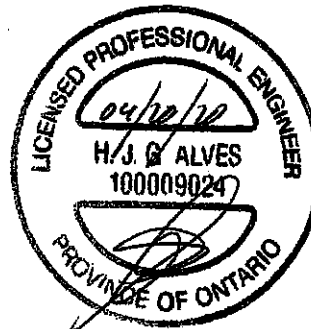
##### NAIL VALUES

| PLATE GRIP(DRY) | SHEAR (PSI) | SECTION (PLI) |
|-----------------|-------------|---------------|
| MT20            | 618         | 354           |
|                 | 1637        | 788           |
|                 | 1987        | 1656          |

PLATE PLACEMENT TOL = 0.250 inches

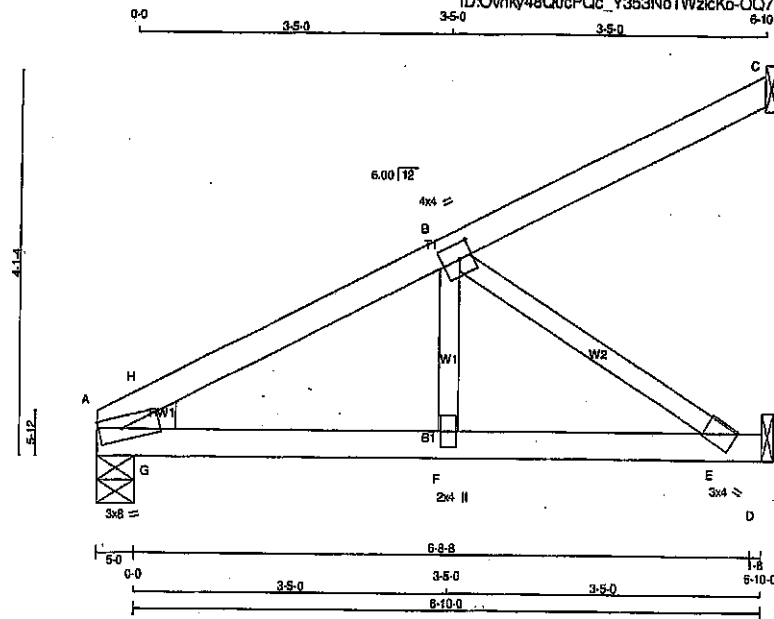
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.15 (A) (INPUT = 0.90)  
JSI METAL= 0.02 (A) (INPUT = 1.00)



Structural component only  
DWG# T-2006485

|                                                                                     |            |          |     |                  |          |
|-------------------------------------------------------------------------------------|------------|----------|-----|------------------|----------|
| JOB NAME                                                                            | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408165                                                                              | J35        | 3        | 1   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington                                                     |            |          |     |                  |          |
| Version 8.310 S Oct 29 2019 Mittek Industries, Inc. Fri Apr 17 08:44:18 2020 Page 1 |            |          |     |                  |          |
| ID:Ovnlky48Q0cPQc_Y353NoTWzlcKo-007HUqzkuCUzkZw8m5bPQb5wZ6L1pBqXWMqJ3zP1ZR          |            |          |     |                  |          |
| Scale = 1:22.7                                                                      |            |          |     |                  |          |



|                       |      |     |        |        |     |
|-----------------------|------|-----|--------|--------|-----|
| <b>LUMBER</b>         |      |     |        |        |     |
| N. L. G. A. RULES     |      |     |        |        |     |
| CHORDS                | SIZE | DRY | LUMBER | DESCR. | SPF |
| A - C                 | 2x4  | DRY | No.2   |        |     |
| A - D                 | 2x4  | DRY | No.2   |        |     |
| ALL WEBS              | 2x3  | DRY | No.2   |        |     |
| DRY: SEASONED LUMBER. |      |     |        |        |     |

|                                    |         |      |     |     |           |
|------------------------------------|---------|------|-----|-----|-----------|
| <b>PLATES</b> (table is in inches) |         |      |     |     |           |
| JT TYPE                            | PLATES  | W    | LEN | Y   | X         |
| A                                  | T8MH1-m | MT20 | 3.0 | 8.0 | Edge      |
| B                                  | T8MW1-t | MT20 | 4.0 | 4.0 | 2.00 1.75 |
| E                                  | BMW-w   | MT20 | 3.0 | 4.0 |           |
| F                                  | BMW-w   | MT20 | 2.0 | 4.0 |           |

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

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

| BEARINGS |                | FACTORED |      | MAXIMUM FACTORED |      | INPUT |        | REQRD |       | HEEL  |       |
|----------|----------------|----------|------|------------------|------|-------|--------|-------|-------|-------|-------|
| JT       | GROSS REACTION | VERT     | HORZ | GROSS REACTION   | DOWN | HORZ  | UPLIFT | BRG   | IN-SX | BRG   | WEDGE |
| A        | 400            | 0        | 0    | 400              | 0    | 0     | 0      | 5-0   | 5-0   | 2x4 L |       |
| C        | 125            | 0        | 0    | 125              | 0    | 0     | 0      | 1-8   | 1-8   |       |       |
| D        | 275            | 0        | 0    | 275              | 0    | 0     | 0      | 1-8   | 1-8   |       |       |

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

#### UNFACTORED REACTIONS

| JT | 1ST CASE | SNOW    | LIVE  | PERM.LIVE | WIND  | DEAD   | SOIL  |
|----|----------|---------|-------|-----------|-------|--------|-------|
| A  | 283      | 185 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 97 / 0 | 0 / 0 |
| C  | 88       | 69 / 0  | 0 / 0 | 0 / 0     | 0 / 0 | 17 / 0 | 0 / 0 |
| D  | 198      | 116 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 80 / 0 | 0 / 0 |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |             | FACTORED       |            | W E B S       |       | MAX. FACTORED |           |
|--------|-------------|----------------|------------|---------------|-------|---------------|-----------|
| MEMB.  | FORCE (LBS) | VERT. LOAD LC1 | MAX. (PLF) | MAX. (LC)     | MEMB. | FORCE (LBS)   | MAX. (LC) |
| FR-TO  |             | FROM           | TO         | UNBRAC LENGTH | FR-TO |               |           |
| A-H    | -517 / 0    | -91.8          | -91.8      | 0.02 (1)      | 6.25  | F-B           | 0 / 147   |
| H-B    | -461 / 0    | -91.8          | -91.8      | 0.12 (1)      | 6.25  | B-E           | -518 / 0  |
| B-C    | -14 / 0     | -91.8          | -91.8      | 0.11 (1)      | 6.25  | G-H           | -61 / 16  |
| A-G    | 0 / 424     | -18.5          | -18.5      | 0.13 (1)      | 10.00 |               |           |
| G-F    | 0 / 424     | -18.5          | -18.5      | 0.14 (1)      | 10.00 |               |           |
| F-E    | 0 / 424     | -18.5          | -18.5      | 0.24 (1)      | 10.00 |               |           |
| E-D    | 0 / 0       | -18.5          | -18.5      | 0.17 (1)      | 10.00 |               |           |

TOTAL WEIGHT = 3 X 23 = 68 lb (M)

#### DESIGN CRITERIA

**SPECIFIED LOADS:**  
TOP CH. LL = 25.6 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 39.0 PSF

**SPACING = 24.0 IN./C**

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (0.24")  
CALCULATED VERT. DEFL.(LL) = L/989 (0.01")  
ALLOWABLE DEFL.(TL) = L/360 (0.24")  
CALCULATED VERT. DEFL.(TL) = L/899 (0.03")

CSI: TC=0.12/1.00 (B-H:1), BC=0.24/1.00 (E-F:1), WB=0.13/1.00 (B-E:1), SS=0.21/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**  
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PL) (PL)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.35 (E) (INPUT = 0.80)  
JSI METAL = 0.19 (E) (INPUT = 1.00)



Structural component only  
DWG# T-2006486

## LUL/LUS/LJS/HUS/HHUS/HGUS

## Standard and Double-Shear Joist Hangers



This product is preferable to similar connectors because of  
a) easier installation, b) higher capacities, c) lower installed  
cost, or a combination of these features.

Most hangers in this series have double-shear nailing — an innovation that distributes the load through two points on each joist nail for greater strength. This allows for fewer nails, faster installation, and the use of all common nails for the same connection. (Do not bend or remove tabs)

Double-shear hangers range from the light capacity LUS hangers to the highest capacity HGUS hangers. For medium load truss applications, the HUS offers a lower cost alternative and easier installation than the HGUS hangers, while providing greater load capacity and bearing than the LUS.

**Material:** See table on pp. 258–259.

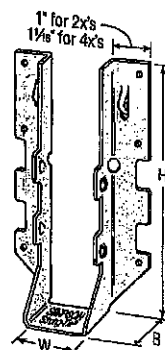
**Finish:** Galvanized. Some products available in stainless steel or ZMAX® coating; see Corrosion Information, pp. 20–24.

**Installation:**

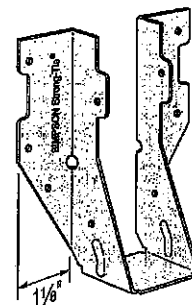
- Use all specified fasteners; see General Notes.
- Nails must be driven at an angle through the joist or truss into the header to achieve the tabulated resistances (except LUL).
- Where 16d commons are specified, 10d commons may be used at 0.83 of the tabulated factored resistance.
- Not designed for welded or nailer applications.
- With single ply 2x carrying members, use 10d x 1½" nails into the header and 10d commons into the joist, and reduce the resistance to 0.64 of the table value where 16d nails are specified and 0.77 where 10d nails are specified.

**Options:**

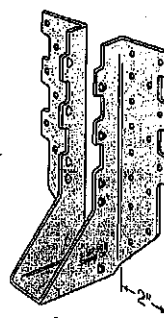
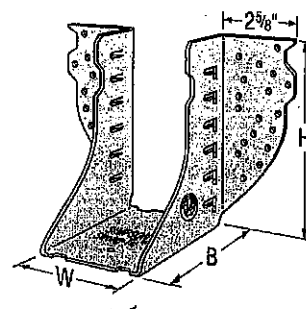
- LUS, LJS, LUL and HUS hangers cannot be modified.
- Other sizes available; consult your Simpson Strong-Tie representative.
- See Hanger Options information on p. 126.



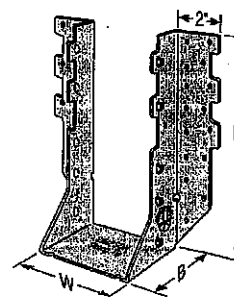
LUS28



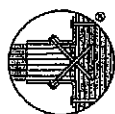
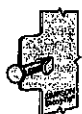
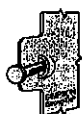
LU26L

HUS210  
(HUS26, HUS28,  
and HHUS similar)

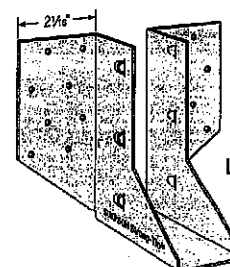
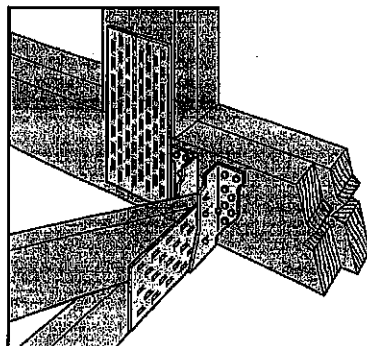
HGUS28-2



HHUS210-2

Double-Shear  
Nailing  
Top ViewDouble-Shear  
Nailing  
Side View;  
Do not  
bend tabDome Double-Shear  
Nailing Side View  
(available on  
some models)  
U.S. Patent 5,603,580

Typical HUS26  
Installation  
with Reduced  
Heel Height  
(Truss Designer  
to provide  
fastener quantity  
for connecting  
multiple members  
together)



LJS26DS

## LUL/LUS/LJS/HUS/HHUS/HGUS

## HHUS/HGUS

See Hanger Options information on pp. 125–127.

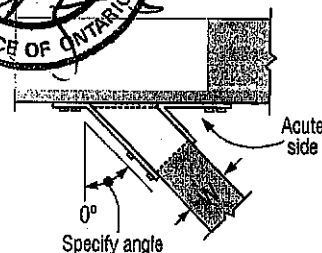
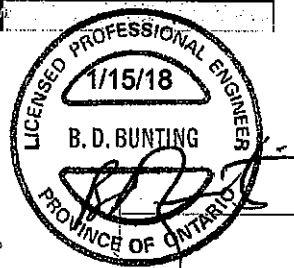
**HHUS — Sloped and/or Skewed Seat**

- HHUS hangers can be skewed to a maximum of 45° and/or sloped to a maximum of 45°
- For skew only, maximum factored down resistance is 0.85 of the table value
- For sloped only or sloped and skewed hangers, the maximum factored down resistance is 0.72 of the table value
- Uplift resistances for sloped/skewed conditions are 0.62 of the table value
- The joist must be bevel-cut to allow for double-shear nailing

**HGUS — Skewed Seat**

- HGUS hangers can be skewed only to a maximum of 45°. Factored resistances are:

| HGUS Seat Width | Joist               | Down Resistance     | Uplift              |
|-----------------|---------------------|---------------------|---------------------|
| W < 2"          | Bevel or square cut | 0.62 of table value | 0.46 of table value |
| 2" < W < 6"     | Bevel cut           | 0.67 of table value | 0.41 of table value |
| 2" < W < 6"     | Square cut          | 0.46 of table value | 0.41 of table value |
| W > 6"          | Bevel cut           | 0.75 of table value | 0.41 of table value |



**Top View HHUS Hanger Skewed Right**  
(joist must be bevel cut)  
All joist nails installed on the outside angle (non-acute side).

## Standard and Double-Shear Joist Hangers (cont.)

These products are available with additional corrosion protection. For more information, see p. 24.

These products are approved for installation with the Strong-Drive® SD Connector screw. See pp. 32–34 for more information.

| Model No.       | Ga.     | Dimensions (in.) |       |       |                             | Fasteners |          | Factored Resistance                  |                                      |                                      |                                      |       |
|-----------------|---------|------------------|-------|-------|-----------------------------|-----------|----------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|-------|
|                 |         | W                | H     | B     | d <sub>a</sub> <sup>3</sup> | Header    | Joist    | D.Fir-L                              |                                      | S-P-F                                |                                      |       |
|                 |         |                  |       |       |                             |           |          | Uplift                               | Normal                               | Uplift                               | Normal                               |       |
|                 |         |                  |       |       |                             |           |          | (K <sub>D</sub> = 1.15)<br>lb.<br>kN | (K <sub>D</sub> = 1.00)<br>lb.<br>kN | (K <sub>D</sub> = 1.15)<br>lb.<br>kN | (K <sub>D</sub> = 1.00)<br>lb.<br>kN |       |
| Single 2x Sizes |         |                  |       |       |                             |           |          |                                      |                                      |                                      |                                      |       |
| SS              | LUS24   | 18               | 1 1/8 | 3 1/4 | 1 1/4                       | 2 1/4     | (4) 10d  | (2) 10d                              | 710                                  | 1625                                 | 645                                  | 1155  |
|                 |         |                  |       |       |                             |           |          |                                      | 3.16                                 | 7.23                                 | 2.87                                 | 5.14  |
|                 |         |                  |       |       |                             |           |          |                                      | 360                                  | 1020                                 | 320                                  | 725   |
| SS              | LU24L   | 22               | 1 1/8 | 3     | 1 1/4                       | 2 1/8     | (4) 10d  | (2) 10d x 1 1/2"                     | 1.60                                 | 4.54                                 | 1.42                                 | 3.22  |
|                 |         |                  |       |       |                             |           |          |                                      | 720                                  | 1605                                 | 645                                  | 1140  |
|                 |         |                  |       |       |                             |           |          |                                      | 3.20                                 | 7.14                                 | 2.87                                 | 5.07  |
| SS              | LU26L   | 22               | 1 1/8 | 5     | 1 1/4                       | 4 1/4     | (6) 10d  | (4) 10d x 1 1/2"                     | 1420                                 | 2170                                 | 1290                                 | 1630  |
|                 |         |                  |       |       |                             |           |          |                                      | 6.32                                 | 9.65                                 | 5.74                                 | 7.25  |
|                 |         |                  |       |       |                             |           |          |                                      | 2705                                 | 4940                                 | 2065                                 | 3875  |
| SS              | HUS26   | 16               | 1 1/8 | 5 1/4 | 3                           | 3 1/8     | (14) 16d | (6) 16d                              | 11.30                                | 21.97                                | 9.20                                 | 17.24 |
|                 |         |                  |       |       |                             |           |          |                                      | 2055                                 | 4265                                 | 1460                                 | 4115  |
|                 |         |                  |       |       |                             |           |          |                                      | 9.34                                 | 18.97                                | 6.49                                 | 18.31 |
| SS              | LJS26DS | 18               | 1 1/8 | 5     | 3 1/2                       | 4 1/4     | (16) 16d | (6) 16d                              | 2685                                 | 6625                                 | 2685                                 | 5700  |
|                 |         |                  |       |       |                             |           |          |                                      | 11.96                                | 29.51                                | 11.96                                | 25.35 |
|                 |         |                  |       |       |                             |           |          |                                      | 1140                                 | 2185                                 | 1020                                 | 1550  |
| SS              | HGUS26  | 12               | 1 1/8 | 5 1/4 | 5                           | 4 1/4     | (20) 16d | (8) 16d                              | 5.07                                 | 9.72                                 | 4.54                                 | 8.89  |
|                 |         |                  |       |       |                             |           |          |                                      | 1420                                 | 2520                                 | 1290                                 | 1790  |
|                 |         |                  |       |       |                             |           |          |                                      | 6.32                                 | 11.21                                | 5.74                                 | 7.96  |
| SS              | LUS28   | 18               | 1 1/8 | 6 1/4 | 1 1/4                       | 3 1/4     | (6) 10d  | (4) 10d                              | 3605                                 | 5365                                 | 2675                                 | 4345  |
|                 |         |                  |       |       |                             |           |          |                                      | 16.04                                | 23.86                                | 11.90                                | 19.33 |
|                 |         |                  |       |       |                             |           |          |                                      | 3310                                 | 7675                                 | 3310                                 | 6900  |
| SS              | HUS28   | 16               | 1 1/8 | 7 1/4 | 3                           | 6 1/8     | (22) 16d | (8) 16d                              | 14.74                                | 34.19                                | 14.74                                | 30.73 |
|                 |         |                  |       |       |                             |           |          |                                      | 1140                                 | 2495                                 | 1020                                 | 1770  |
|                 |         |                  |       |       |                             |           |          |                                      | 5.07                                 | 11.10                                | 4.54                                 | 7.87  |
| SS              | HGUS28  | 12               | 1 1/8 | 7 1/4 | 5                           | 6 1/4     | (36) 16d | (12) 16d                             | 1420                                 | 2785                                 | 1290                                 | 2210  |
|                 |         |                  |       |       |                             |           |          |                                      | 6.32                                 | 12.39                                | 5.74                                 | 9.83  |

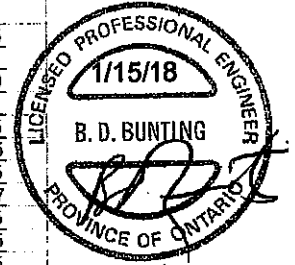
1. Factored uplift resistances have been increased 15% for wind or earthquake loading; no further increase is allowed.
2. Designer must ensure that hanger is compatible with truss when reduced heel height is used.
3. d<sub>a</sub> is the distance from the bearing seat to the top joist nail.
4. Resistances shown require a minimum 2-ply girdler truss. For fastening to single-ply truss request technical bulletin T-C-N10TRSSCN and/or see installation notes.
5. Nails: 16d = 0.162" dia. x 3 1/2" long. See pp. 27–28 for other nail sizes and information.

# Face-Mount Hangers

These products are available with additional corrosion protection. For more information, see p. 24.

These products are approved for installation with the Strong-Drive® SD Connector screw. See pp. 32-34 for more information.

| Model No.                 | Ga. | Dimensions (in.) |        |   |                             | Fasteners |          | Factored Resistance     |                         |                         |                         |
|---------------------------|-----|------------------|--------|---|-----------------------------|-----------|----------|-------------------------|-------------------------|-------------------------|-------------------------|
|                           |     | W                | H      | B | d <sub>a</sub> <sup>3</sup> | Header    | Joist    | D.Fir-L                 |                         | S-P-F                   |                         |
|                           |     |                  |        |   |                             |           |          | Uplift                  | Normal                  | Uplift                  | Normal                  |
|                           |     |                  |        |   |                             |           |          | (K <sub>D</sub> = 1.15) | (K <sub>D</sub> = 1.00) | (K <sub>D</sub> = 1.15) | (K <sub>D</sub> = 1.00) |
|                           |     |                  |        |   |                             |           |          | lb.                     | lb.                     | lb.                     | lb.                     |
|                           |     |                  |        |   |                             |           |          | kN                      | kN                      | kN                      | kN                      |
| <b>Double 2x Sizes</b>    |     |                  |        |   |                             |           |          |                         |                         |                         |                         |
| ■ LUS24-2                 | 18  | 3 1/8            | 3 1/8  | 2 | 1 1/2                       | (4) 16d   | (2) 16d  | 835                     | 2020                    | 590                     | 1435                    |
| SS LUS26-2                | 18  | 3 1/8            | 4 1/8  | 2 | 4                           | (4) 16d   | (4) 16d  | 3.71                    | 8.99                    | 2.62                    | 6.38                    |
| ■ HHUS26-2                | 14  | 3 1/8            | 5 1/8  | 3 | 3 1/8                       | (14) 16d  | (8) 16d  | 1720                    | 2595                    | 1545                    | 1920                    |
| ■ HGUS26-2                | 12  | 3 1/8            | 5 1/8  | 4 | 4 1/8                       | (20) 16d  | (8) 16d  | 7.65                    | 11.54                   | 6.87                    | 8.54                    |
| ■                         |     |                  |        |   |                             |           |          | 2850                    | 7335                    | 2065                    | 5205                    |
| SS LUS28-2                | 18  | 3 1/8            | 7      | 2 | 4                           | (6) 16d   | (4) 16d  | 12.68                   | 32.63                   | 9.20                    | 23.15                   |
| ■ HHUS28-2                | 14  | 3 1/8            | 7 1/8  | 3 | 6 1/8                       | (22) 16d  | (8) 16d  | 4385                    | 8950                    | 3110                    | 6355                    |
| ■ HGUS28-2                | 12  | 3 1/8            | 7 1/8  | 4 | 6 1/8                       | (36) 16d  | (12) 16d | 19.51                   | 39.81                   | 13.83                   | 28.27                   |
| SS LUS210-2               | 18  | 3 1/8            | 9      | 2 | 6                           | (8) 16d   | (8) 16d  | 1720                    | 3325                    | 1545                    | 2575                    |
| ■ HHUS210-2               | 14  | 3 1/8            | 9 1/8  | 3 | 8                           | (30) 16d  | (10) 16d | 7.65                    | 14.79                   | 6.87                    | 11.45                   |
| ■ HGUS210-2               | 12  | 3 1/8            | 9 1/8  | 4 | 8 1/8                       | (46) 16d  | (16) 16d | 3765                    | 8940                    | 2675                    | 6345                    |
| ■                         |     |                  |        |   |                             |           |          | 16.75                   | 39.77                   | 11.90                   | 28.22                   |
| ■                         |     |                  |        |   |                             |           |          | 6070                    | 12980                   | 4310                    | 9215                    |
| SS                        |     |                  |        |   |                             |           |          | 27.00                   | 57.74                   | 19.17                   | 40.99                   |
| ■                         |     |                  |        |   |                             |           |          | 2580                    | 4500                    | 2320                    | 3195                    |
| ■                         |     |                  |        |   |                             |           |          | 11.48                   | 20.02                   | 10.32                   | 14.21                   |
| ■                         |     |                  |        |   |                             |           |          | 4670                    | 9660                    | 4235                    | 7000                    |
| ■                         |     |                  |        |   |                             |           |          | 20.77                   | 42.97                   | 18.84                   | 31.14                   |
| ■                         |     |                  |        |   |                             |           |          | 6840                    | 14015                   | 4855                    | 10270                   |
| ■                         |     |                  |        |   |                             |           |          | 30.43                   | 62.34                   | 21.60                   | 45.69                   |
| <b>Triple 2x Sizes</b>    |     |                  |        |   |                             |           |          |                         |                         |                         |                         |
| ■ HGUS26-3                | 12  | 4 1/8            | 5 1/8  | 4 | 4 1/8                       | (20) 16d  | (8) 16d  | 4385                    | 8950                    | 3110                    | 6355                    |
| ■                         |     |                  |        |   |                             |           |          | 19.51                   | 39.81                   | 13.83                   | 28.27                   |
| ■ HGUS28-3                | 12  | 4 1/8            | 7 1/8  | 4 | 6 1/8                       | (36) 16d  | (12) 16d | 6070                    | 12980                   | 4310                    | 9215                    |
| ■                         |     |                  |        |   |                             |           |          | 27.00                   | 57.74                   | 19.17                   | 40.99                   |
| ■ HHUS210-3               | 14  | 4 1/8            | 9      | 3 | 7 1/8                       | (30) 16d  | (10) 16d | 4670                    | 9670                    | 4235                    | 6865                    |
| ■                         |     |                  |        |   |                             |           |          | 20.77                   | 43.02                   | 18.84                   | 30.54                   |
| ■ HGUS210-3               | 12  | 4 1/8            | 9 1/8  | 4 | 8 1/8                       | (46) 16d  | (16) 16d | 6840                    | 14645                   | 4855                    | 10400                   |
| ■                         |     |                  |        |   |                             |           |          | 30.43                   | 65.14                   | 21.60                   | 46.26                   |
| <b>Quadruple 2x Sizes</b> |     |                  |        |   |                             |           |          |                         |                         |                         |                         |
| ■ HGUS26-4                | 12  | 6 1/8            | 5 1/8  | 4 | 4 1/8                       | (20) 16d  | (8) 16d  | 4385                    | 8950                    | 3110                    | 6355                    |
| ■                         |     |                  |        |   |                             |           |          | 19.51                   | 39.81                   | 13.83                   | 28.27                   |
| ■ HGUS28-4                | 12  | 6 1/8            | 7 1/8  | 4 | 6 1/8                       | (36) 16d  | (12) 16d | 6070                    | 12980                   | 4310                    | 9215                    |
| ■                         |     |                  |        |   |                             |           |          | 27.00                   | 57.74                   | 19.17                   | 40.99                   |
| ■ HHUS210-4               | 14  | 6 1/8            | 8 1/8  | 3 | 7 1/8                       | (30) 16d  | (10) 16d | 4670                    | 10155                   | 4235                    | 7210                    |
| ■                         |     |                  |        |   |                             |           |          | 20.77                   | 45.17                   | 18.84                   | 32.07                   |
| ■ HGUS210-4               | 12  | 6 1/8            | 9 1/8  | 4 | 8 1/8                       | (46) 16d  | (16) 16d | 6840                    | 14645                   | 4855                    | 10400                   |
| ■                         |     |                  |        |   |                             |           |          | 30.43                   | 65.14                   | 21.60                   | 46.26                   |
| ■ HGUS212-4               | 12  | 6 1/8            | 10 1/8 | 4 | 10 1/8                      | (56) 16d  | (20) 16d | 7640                    | 14995                   | 5425                    | 10645                   |
| ■                         |     |                  |        |   |                             |           |          | 33.98                   | 66.70                   | 24.13                   | 47.35                   |
| ■ HGUS214-4               | 12  | 6 1/8            | 12 1/8 | 4 | 11 1/8                      | (66) 16d  | (22) 16d | 10130                   | 16400                   | 7195                    | 11645                   |
| ■                         |     |                  |        |   |                             |           |          | 45.06                   | 72.95                   | 32.00                   | 51.80                   |
| <b>4x Sizes</b>           |     |                  |        |   |                             |           |          |                         |                         |                         |                         |
| ■ LUS46                   | 18  | 3 1/8            | 4 1/8  | 2 | 3 1/8                       | (4) 16d   | (4) 16d  | 1720                    | 2595                    | 1545                    | 1920                    |
| ■                         |     |                  |        |   |                             |           |          | 7.65                    | 11.54                   | 6.87                    | 8.54                    |
| ■ HHUS46                  | 14  | 3 1/8            | 5 1/8  | 3 | 3 1/8                       | (14) 16d  | (6) 16d  | 2540                    | 7335                    | 2065                    | 5205                    |
| ■                         |     |                  |        |   |                             |           |          | 11.30                   | 32.63                   | 9.20                    | 23.15                   |
| ■ HGUS46                  | 12  | 3 1/8            | 5 1/8  | 4 | 4 1/8                       | (20) 16d  | (8) 16d  | 4385                    | 8950                    | 3110                    | 6355                    |
| ■                         |     |                  |        |   |                             |           |          | 19.51                   | 39.81                   | 13.83                   | 28.27                   |
| ■ LUS48                   | 18  | 3 1/8            | 6 1/8  | 2 | 3 1/8                       | (6) 16d   | (4) 16d  | 1720                    | 3325                    | 1545                    | 2575                    |
| ■                         |     |                  |        |   |                             |           |          | 7.65                    | 14.79                   | 6.87                    | 11.45                   |
| ■ HHUS48                  | 14  | 3 1/8            | 7 1/8  | 3 | 6 1/8                       | (22) 16d  | (8) 16d  | 3765                    | 8940                    | 2675                    | 6345                    |
| ■                         |     |                  |        |   |                             |           |          | 16.75                   | 39.77                   | 11.90                   | 28.22                   |
| ■ HGUS48                  | 12  | 3 1/8            | 7 1/8  | 4 | 6 1/8                       | (36) 16d  | (12) 16d | 6070                    | 12980                   | 4310                    | 9215                    |
| ■                         |     |                  |        |   |                             |           |          | 27.00                   | 57.74                   | 19.17                   | 40.99                   |
| ■ LUS410                  | 18  | 3 1/8            | 8 1/8  | 2 | 5 1/8                       | (8) 16d   | (6) 16d  | 2580                    | 4500                    | 2320                    | 3195                    |
| ■                         |     |                  |        |   |                             |           |          | 11.48                   | 20.02                   | 10.32                   | 14.21                   |
| ■ HGUS410                 | 12  | 3 1/8            | 9      | 4 | 8 1/8                       | (46) 16d  | (16) 16d | 6840                    | 14015                   | 4855                    | 10270                   |
| ■                         |     |                  |        |   |                             |           |          | 30.43                   | 62.34                   | 21.60                   | 45.69                   |
| ■ HGUS412                 | 12  | 3 1/8            | 10 1/8 | 4 | 10 1/8                      | (56) 16d  | (20) 16d | 7640                    | 14995                   | 5425                    | 10645                   |
| ■                         |     |                  |        |   |                             |           |          | 33.98                   | 66.70                   | 24.13                   | 47.35                   |
| ■ HGUS414                 | 12  | 3 1/8            | 12 1/8 | 4 | 11 1/8                      | (66) 16d  | (22) 16d | 10130                   | 16400                   | 7195                    | 11645                   |
| ■                         |     |                  |        |   |                             |           |          | 45.06                   | 72.95                   | 32.00                   | 51.80                   |



Plated Truss Connectors

See footnotes  
on p. 258.