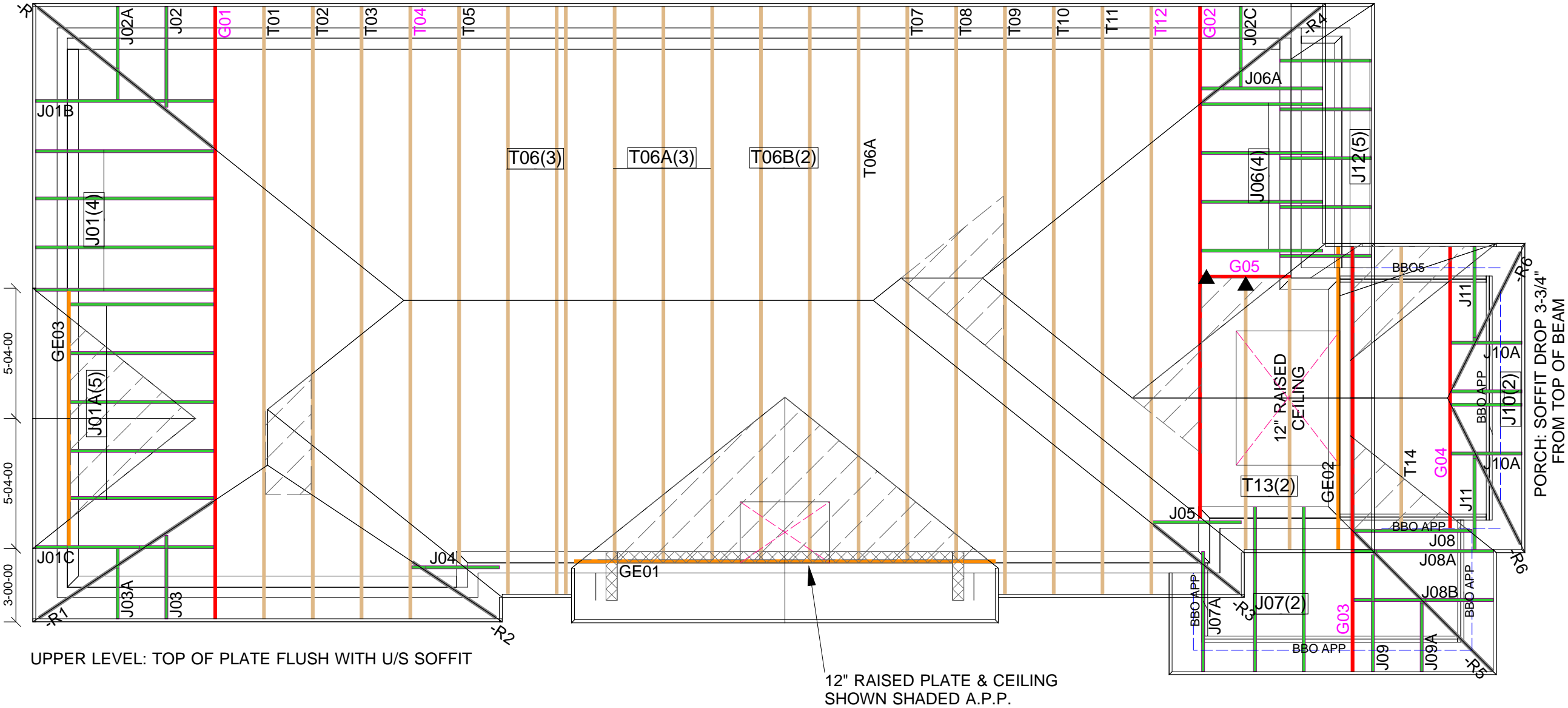


Please Note: Truss layout revised from plans to reduce girder point loads.



| Hanger Name | Symbol | QTY |
|-------------|--------|-----|
| LUS24       | ▲      | 2   |
| LJS26DS     | ■      | 0   |



CONVENTIONAL  
FRAMING BY OTHERS

ALL CONVENTIONAL FRAMING TO CONFORM WITH PART 9 OF THE OBC. ROOF RAFTERS THAT CROSS OVER TRUSSES TO BE MIN. 2x4 SPF @ 24" C/C WITH A 2x4 VERTICAL POST TO THE TRUSS BELOW. VERTICAL POSTS TO BE Laterally BRACED SO THAT UNBRACED LENGTH DOES NOT EXCEED 6'. DESIGN OF CONVENTIONAL FRAMING IS THE RESPONSIBILITY OF THE PROJECT ENGINEER.

JOB INFORMATION

|           |  |
|-----------|--|
| Customer  | GREENPARK GROUP  |
| Job #     | 23-00090R0   |
| Address   | ZADORRA ESTATES<br>ZADORRA ESTATES INC<br>OSHAWA, ON                           |
| Model     | RIVER 11-1   |
| Sales Rep | RALPH MIRIGELLO  |
| Designer  | LI   |
| Date      | 2023-07-05   |
| Path      | C:\MITEK\CA\JOBS\GREENPARK GROUP\ZADORRA ESTATES\MODELS\RIVER 11\T-RIVER 11-1\ |

DESIGN INFORMATION

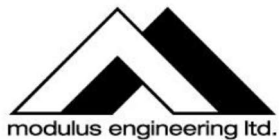
|               |   |
|---------------|---|
| Code          | NBCC 2015   |
| Bldg          | Residential - HSB (NBCC Part 9)                       |
| TC LL         | 34.8 lb/ft <sup>2</sup>                               |
| TC DL         | 6.0 lb/ft <sup>2</sup>                                |
| BC LL         | 0.0 lb/ft <sup>2</sup>                                |
| BC DL         | 7.3 lb/ft <sup>2</sup>                                |
| Deflection    | LL=L/360 TL=L/360                                     |
| Spacing       | 24" O/C unless otherwise noted                        |
| Complies With | OBC 2012 (2019 Amendment)<br>CSA O86-14 and TPIC 2014 |

IMPORTANT INFORMATION

- Hangers and Fasteners to be installed as per manufacturer
- Refer to truss drawings in the Truss Engineering Package for ply-to-ply attachment notes
- For site-framed valleys: top chords of all roof trusses must be laterally supported using 2x4 continuous bracing @24 O/C - all bracing must be anchored at ends as per TPIC Installation Guidelines
- Read all notes on this page in addition to those shown on the KOTT Truss Engineering package
- Field erection, handling and bracing are not the responsibility of KOTT, or KOTT Engineering
- Unless noted otherwise, hurricane ties are to be installed at the bearings of all trusses > 40 ft clear span, and any girder or beam supporting trusses with a clear span >40 ft. See hanger legend for type.
- Unless noted otherwise, for Part 9 bldgs, all trusses are to be anchored to the top of supporting walls as follows: trusses with a clear span <40 ft use 3-1/4" nails @ each bearing; trusses with a clear span >40 ft use 3-1/4" nails @ each bearing in addition to the appropriate hurricane tie.

KOTT Inc.  
14 Anderson Blvd.  
Uxbridge, ON  
905.642.4400





## General Guidelines for Truss Manufacturer and Installer on Reading Truss Component Drawings



**Read Carefully Prior to  
Manufacture and Installation**

**Note:** It is important that all information on the truss component drawing is understood by all interested parties. If clarification is required, please contact your truss supplier prior to installation of the trusses

### Standard Design Loading:

Standard loading is indicated on the drawing legend for the top and bottom chords, for snow, live and dead loads where indicated. Actual panel UDL is further indicated for individual panels in the body of the truss drawing.

### Non-Standard Loading:

Additional uniform loading is included in individual panel loading. Concentrated loads are noted in a separate table in the body of the drawing.

### Reactions:

Factored gross reactions are indicated as Maximum Factored Reactions, not necessarily for the load case outlined on the drawing. Includes vertical, horizontal and uplift.

### Lumber size and Grade:

The member size and grade is indicated in the lumber table. The truss must be manufactured with the same size and species noted but may be an equal or better grade than indicated.

### Plates sizes:

Plate sizes are noted as Width x Length, where the plate slot direction is parallel to the plate length. Plate sizes indicated are the minimum required and may be increased.

### Plate location:

Plates are centred on the joint unless an x-y offset is indicated. If clarification of placement is required prior to manufacture or during inspection, additional detail on plate placement is available from the truss manufacturer.

### Bearing:

In most cases, input bearing size (input by designer) and minimum required bearing are indicated on the drawing. In cases where the bearing capacity has been enhanced by using a bearing block, bearing enhancer or flush plate, the bearing required will match the input bearing even where the required bearing might be less than what is indicated

### Ply to ply connection:

Where the truss is designed for 2 or more plys, the individual truss plys must be fastened together. A nailing chart will be included which includes nails size, type, spacing and rows for each member. For 4 ply trusses, bolts or structural screws may also be noted

### Building Code:

The truss will be designed as Part 9, Part 4 or Farm and will be noted in the legend. In certain cases, wind loading will also be required and will be outlined on the drawing, including information pertaining to location, building height, exposure class and opening size. TPIC requires that some non-triangulated frames such as attic trusses and gambrel arches be designed Part 4 even though the building itself might meet the requirements of Part 9.

### Chord Bracing:

Minimum spacing for bracing for the top and bottom chord is clearly indicated. This can also be achieved when suitable sheathing is directly connected to the top chord and when a suitable ceiling is directly connected to the bottom chord. For large cantilevers where there is typically not a directly connected ceiling, care should be taken to meet the bracing criteria noted. The base truss for piggyback situations must have 2x4 purlins (max truss spacing 24" o/c) connected at a maximum of 24" o/c along the flat top chord section. Additional x-bracing may be required in the plane of the purlins.

### Web Bracing:

Requirements for individual web bracing will be indicated on the drawing. This will either be a lateral brace or T-brace. Where a T-brace is specified, size, grade and nailing requirement will be noted. For a lateral brace, a 1x4 minimum is required. Note: The building designer is responsible for ensuring adequate load transfer from the individual lateral braces into the overall structure.

### Design Results:

Axial forces for load case 1 are indicated on the drawing. Other load case results can be supplied upon request. Maximum stress indices are also indicated for both the lumber and plates. Maximum deflection is indicated, both allowable and calculated.

### Manufacturing tolerances:

Tolerances for plate placement as outlined in TPIC Appendix G are noted on each truss component drawing.

**Failure to follow these guidelines could cause property damage and personal injury**

1. Additional stability bracing for truss system, e.g. diagonal or xbracing is always required. Consult **BCSI-CANADA** for installation requirements (copies available from your truss supplier or from [www.sbcindustry.com](http://www.sbcindustry.com))

2. Truss bracing must be designed by an engineer. Individual lateral braces shown in truss drawings must be incorporated into overall structure through connection to diaphragm or other means.

3. Never exceed the design loading shown and never stack building materials on inadequately braced trusses

4. Provide copies of truss component drawings to the building department, erection supervisor, property owner and all other interested parties (e.g. Building designer where required)

5. Cut members to bear tightly against one another

6. Place plates on each face of truss at each joint and embed fully, using proper roller or hydraulic press. Knots and wane at joint locations are regulated by TPIC Appendix G

7. Design assumes trusses will be suitably protected from the environment in accordance with TPIC

8. Unless otherwise noted, MC of lumber shall not exceed 19% at time of manufacture

9. Unless expressly noted, this design is not applicable for fire retardant, preservative treatment or green lumber nor for use in a corrosive environment

10. Connections not shown are the responsibility of others

11. Do not cut or alter truss members or plates without prior approval of an engineer

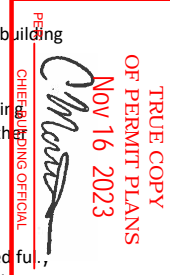
12. Install and load vertically unless otherwise noted

13. Review all portions of this design including all notes. Reviewing pictures alone is not sufficient

14. Design assumes manufactured in accordance with TPIC Quality criteria as outlined in Appendix G

16. Building designer must review individual component drawings to ensure they are suitable for the structure

15. Not designed for solar panels unless specifically noted







| BUILDING DESIGNER |                         |      |                                 |      |         |       |       |  |  |
|-------------------|-------------------------|------|---------------------------------|------|---------|-------|-------|--|--|
| <u>BEARINGS</u>   |                         |      |                                 |      |         |       |       |  |  |
| JT                | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT   | REQRD |       |  |  |
|                   | VERT                    | HORZ | DOWN                            | HORZ | BRG     | BRG   |       |  |  |
|                   |                         |      |                                 |      | UP/LIFT | IN/EX | IN/EX |  |  |
| L                 | 2206                    | 0    | 2206                            | 0    | 0       | 5-8   | 3-11  |  |  |
| G                 | 1836                    | 0    | 1836                            | 0    | 0       | 5-8   | 2-7   |  |  |

| <u>UNFACTORED REACTIONS</u> |           |        |                               |           |      |       |      |  |
|-----------------------------|-----------|--------|-------------------------------|-----------|------|-------|------|--|
| JT                          | 1ST CLASS |        | MAX. MIN. COMPONENT REACTIONS |           | WIND | DEAD  | SOIL |  |
|                             | COMBINED  | SNOW   | LIVE                          | PERM.LIVE |      |       |      |  |
| L                           | 1539      | 1129/0 | 0/0                           | 0/0       | 0/0  | 410/0 | 0/0  |  |
| G                           | 1283      | 929/0  | 0/0                           | 0/0       | 0/0  | 354/0 | 0/0  |  |

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

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.73 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)

| C H O R D S |                                 |                                     |                  |                            | W E B S |                                 |                  |  |  |
|-------------|---------------------------------|-------------------------------------|------------------|----------------------------|---------|---------------------------------|------------------|--|--|
| MEMB.       | MAX. FACTORED<br>FORCE<br>(LBS) | VERT. FACTORED<br>LOAD LC1<br>(PLF) | MAX.<br>CSI (LC) | MAX.<br>UNBRACED<br>LENGTH | MEMB.   | MAX. FACTORED<br>FORCE<br>(LBS) | MAX.<br>CSI (LC) |  |  |
| FR-TO       | 0.53                            | FROM TO                             | 0.18 (1)         | 0.18 (1)                   | FR-TO   | 562 (1)                         | 0.13 (1)         |  |  |

|       |          |        |        |          |       |     |          |          |
|-------|----------|--------|--------|----------|-------|-----|----------|----------|
| B-C   | -1833/0  | -119.4 | -119.4 | 0.21 (1) | 4.71  | C-J | 0 / 2310 | 0.57 (1) |
| C-D   | -3509/0  | -155.5 | -155.5 | 0.67 (1) | 3.73  | J-D | -1209/0  | 0.28 (1) |
| D-E   | -3509/0  | -119.4 | -119.4 | 0.57 (1) | 3.73  | J-E | 0 / 2484 | 0.61 (1) |
| E-F   | -1632/0  | -119.4 | -119.4 | 0.20 (1) | 4.95  | H-E | -522/0   | 0.12 (1) |
| L-B   | -2217/0  | 0.0    | 0.0    | 0.26 (1) | 5.66  | B-K | 0 / 1589 | 0.39 (1) |
| G-F   | -1843/0  | 0.0    | 0.0    | 0.21 (1) | 6.12  | H-F | 0 / 1414 | 0.35 (1) |
| <hr/> |          |        |        |          |       |     |          |          |
| L-K   | 0 / 0    | -23.8  | -23.8  | 0.22 (4) | 10.00 |     |          |          |
| K-J   | 0 / 1430 | -23.8  | -23.8  | 0.41 (1) | 10.00 |     |          |          |
| J-I   | 0 / 1274 | -18.2  | -18.2  | 0.34 (1) | 10.00 |     |          |          |
| I-H   | 0 / 1274 | -18.2  | -18.2  | 0.34 (1) | 10.00 |     |          |          |
| H-G   | 0 / 0    | -16.2  | -16.2  | 0.15 (4) | 10.00 |     |          |          |

| FACTORED CONCENTRATED LOADS (LBS) |        |      |      |      |       |      |       |      |       |
|-----------------------------------|--------|------|------|------|-------|------|-------|------|-------|
| JT                                | LOC.   | LC1  | MAX- | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
| C                                 | 2-7-12 | -114 | -114 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| J                                 | 9-9-4  | -741 | -741 | ---  | FRONT | VERT | TOTAL | ---  | C1    |

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

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

**SPECIFIED LOADS:**

|            |      |      |     |
|------------|------|------|-----|
| TOP CH.    | LL = | 34.8 | PSF |
|            | DL = | 6.0  | PSF |
| BOT CH.    | LL = | 0.0  | PSF |
|            | DL = | 7.3  | PSF |
| TOTAL LOAD | =    | 48.1 | PSF |

**SPACING =** 24.0 IN C/C

ST. AUGUSTINE      2-76      REV. ST.

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

GIRDER TYPE: CPrimeHlp  
SIDE SETBACK = 2-7-12  
END SETBACK = 3-8-0  
END WALL WIDTH = 5-8  
CORNER FRAMING TYPE: CONVENTIONAL  
END JACK TYPE: CONVENTIONAL  
APPLIED TO FRONT SIDE  
- ADDTL LOADS BASED ON 55 % OF GSL.  
LOADS APPLIED TO FIRST 9-9-4 OF SPAN  
MEASURED FROM THE LEFT.

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

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.66")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.11")  
ALLOWABLE DEFL.(TL)= L/360 (0.66")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.20")

CSI: TC=0.67/1.00 (C-D:1), BC=0.41/1.00 (J-K:1),  
WB=0.61/1.00 (E-J:1), SSI=0.44/1.00 (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

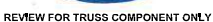
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (C) (INPUT = 0.90 )  
JSI METAL= 0.41 (I) (INPUT = 1.00 )



NOTE: ALTERING THIS DOCUMENT  
VOIDS THE ENGINEERS SEAL

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED IN MODULUS ENGINEERING LTD. NOTES ME-TCDD1 (VER 06/2017) BEFORE USE.**  
Design valid for use only with Mitek connectors. This design is based only upon parameters shown, and is for individual building components. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult  
**TPI® Appendix G - Minimum quality Manufacturing Criteria** available from [www.tpic.ca](http://www.tpic.ca) and BCSI-CANADA (Building Component Safety Information) available from TPI, 781 N. Lee Street, Suite 312, Alexandria, VA 22314 or [www.sbcindustry.com](http://www.sbcindustry.com)

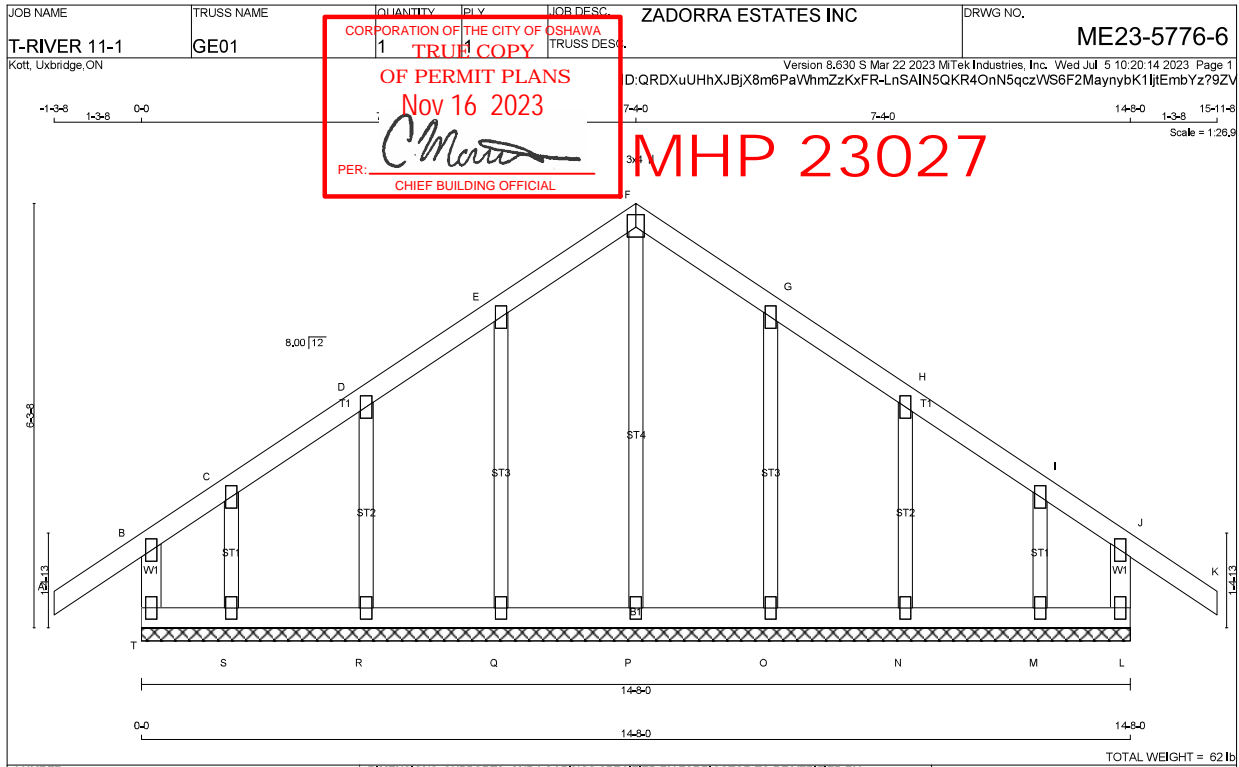




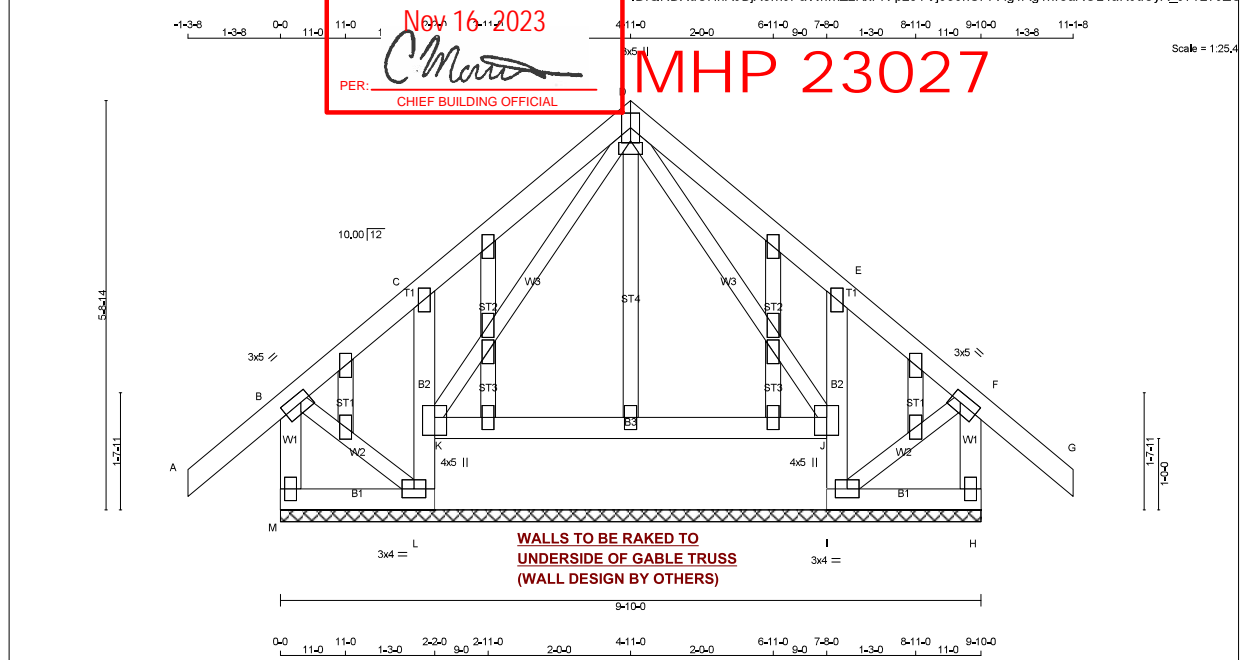








|   |   |   |
|---|---|---|
| <b>LUMBER</b><br>N. L. G. A. RULES<br>CHORDS SIZE LUMBER DESCR.<br>T - B 2x4 DRY No.2 SPF<br>A - F 2x4 DRY No.2 SPF<br>F - K 2x4 DRY No.2 SPF<br>L - J 2x4 DRY No.2 SPF<br>T - L 2x4 DRY No.2 SPF<br>ALL WEBS 2x3 DRY No.2 SPF<br>ALL GABLE WEBS 2x3 DRY No.2 SPF<br>GABLE STUDS SPACED AT 2'-0" O.C. | <b>DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER</b><br><b>BEARINGS</b><br>THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.<br>THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.<br>BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S)<br><b>BRACING</b><br>TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 10.00 FT.<br>MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT. OR RIGID CEILING DIRECTLY APPLIED.<br>ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.<br><b>LOADING</b><br>TOTAL LOAD CASES: (4)   | <b>DESIGN CRITERIA</b><br><b>SPECIFIED LOADS:</b><br>TOP CH. LL = 34.8 PSF<br>DL = 6.0 PSF<br>BOT CH. LL = 0.0 PSF<br>DL = 7.3 PSF<br>TOTAL LOAD = 48.1 PSF<br><b>SPACING = 24.0 IN. G.C.</b><br>THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015<br>THIS DESIGN COMPLIES WITH:<br>- PART 9 OF BCBC 2018, NBC-2019AE<br>- PART 9 OF OBC 2012 (2019 AMENDMENT)<br>- CSA 086-14<br>- TPIC 2014<br><b>DESIGN ASSUMPTIONS</b><br>- OVERHANG NOT TO BE ALTERED OR CUT OFF.<br>(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD<br>CSI: TC=0.16/1.00 (J-K:1), BC=0.02/1.00 (N-O:4), WB=0.19/1.00 (F-P:1), SSI=0.11/1.00 (J-K:1)<br>DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10<br>COMPANION LIVE LOAD FACTOR = 1.00<br>TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.<br><b>NAIL VALUES</b><br>PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)<br>MAX MIN MAX MIN MAX MIN<br>MT20 650 371 1747 788 1987 1873<br>PLATE PLACEMENT TOL. = 0.250 inches<br>PLATE ROTATION TOL. = 5.0 Deg.<br>JSI GRIP= 0.19 (F) (INPUT = 0.90 )<br>JSI METAL= 0.13 (D) (INPUT = 1.00 ) |
| <b>PLATES (table is in inches)</b><br>JT TYPE PLATES W LEN Y X<br>B TMV+p MT20 2.0 4.0<br>C, D, E, G, H, I<br>C TMV+w MT20 2.0 4.0<br>F TMV+p MT20 3.0 4.0 2.25 1.50<br>J TMV+p MT20 2.0 4.0<br>L BMV1+p MT20 2.0 4.0<br>M, N, O, P, Q, R, S<br>M BMV1+w MT20 2.0 4.0<br>T BMV1+p MT20 2.0 4.0        | <b>CHORDS</b><br>MAX. FACTORED FORCE (LBS)<br>FR-TO<br>T-B -266 / 0<br>A-B 0 / 45<br>B-C 0 / 6<br>C-D 0 / 44<br>D-E 0 / 44<br>E-F 0 / 49<br>F-G 0 / 49<br>G-H 0 / 44<br>H-I 0 / 44<br>I-J 0 / 6<br>J-K 0 / 45<br>L-J -266 / 0<br>T-S -25 / 0<br>S-R -31 / 0<br>R-Q -37 / 0<br>Q-P -41 / 0<br>P-O -41 / 0<br>O-N -37 / 0<br>N-M -31 / 0<br>M-L -25 / 0<br><b>FACTORED VERT. LOAD (PLF)</b><br>0.0 0.0 0.05 (1)<br>-119.4 -119.4 0.16 (1)<br>-119.4 -119.4 0.10 (1)<br>-119.4 -119.4 0.07 (1)<br>-119.4 -119.4 0.07 (1)<br>-119.4 -119.4 0.07 (1)<br>-119.4 -119.4 0.07 (1)<br>-119.4 -119.4 0.10 (1)<br>-119.4 -119.4 0.16 (1)<br>0.0 0.0 0.05 (1)<br>-18.2 -18.2 0.01 (1)<br>-18.2 -18.2 0.02 (4)<br>-18.2 -18.2 0.02 (4)<br>-18.2 -18.2 0.01 (4)<br>-18.2 -18.2 0.01 (4)<br>-18.2 -18.2 0.02 (4)<br>-18.2 -18.2 0.02 (4)<br>-18.2 -18.2 0.01 (1) | <b>WEBS</b><br>MAX. FACTORED FORCE (LBS)<br>FR-TO<br>P-F -300 / 0<br>Q-E -242 / 0<br>R-D -247 / 0<br>S-C -134 / 0<br>O-G -242 / 0<br>N-H -247 / 0<br>M-I -134 / 0<br>0.19 (1)<br>0.09 (1)<br>0.05 (1)<br>0.02 (1)<br>0.09 (1)<br>0.05 (1)<br>0.02 (1)   |



TOTAL WEIGHT = 59 lb

| LUMBER            |        |      |        | DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER |                |          |                  | DESIGN CRITERIA |       |                       |  |
|-------------------|--------|------|--------|---|----------------|----------|------------------|-----------------|-------|-----------------------|--|
| N, L, G, A, RULES | CHORDS | SIZE | LUMBER | DESCR.  | BEARINGS       | FACTORED | MAXIMUM FACTORED | INPUT           | REQD  | SPECIFIED LOADS:      |  |
| A - D             | 2x4    | DRY  | No.2   | SPF   | GROSS REACTION | VERT     | DOWN             | BRG             | BRG   | TOP CH. LL = 34.8 PSF |  |
| D - G             | 2x4    | DRY  | No.2   | SPF   | VERT           | HORIZ    | UP               | IN-SX           | IN-SX | DL = 6.0 PSF          |  |
| M - B             | 2x4    | DRY  | No.2   | SPF   | M              | 329      | 0                | 329             | 0     | BOT CH. LL = 0.0 PSF  |  |
| H - F             | 2x4    | DRY  | No.2   | SPF   | I              | 513      | 0                | 513             | 0     | DL = 7.3 PSF          |  |
| M - L             | 2x4    | DRY  | No.2   | SPF   | H              | 329      | 0                | 329             | 0     | TOTAL LOAD = 48.1 PSF |  |
| L - C             | 2x4    | DRY  | No.2   | SPF   | L              | 513      | 0                | 513             | 0     |                       |  |
| K - J             | 2x4    | DRY  | No.2   | SPF   |                |          |                  |                 |       |                       |  |
| I - E             | 2x4    | DRY  | No.2   | SPF   |                |          |                  |                 |       |                       |  |
| I - H             | 2x4    | DRY  | No.2   | SPF   |                |          |                  |                 |       |                       |  |

ALL WEBS EXCEPT 2x3 DRY No.2 SPF

ALL GABLE WEBS 2x3 DRY No.2 SPF

DRY: SEASONED LUMBER.

GABLE STUDS SPACED AT 2'-0" OC.

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

BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING TOTAL LOAD CASES: (4)

CHORDS MAX. FACTORED FORCE (LBS) VERT. LOAD (PLF) MAX. UNBRACED LENGTH (FT) FR-TO

WEBS MAX. FACTORED FORCE (LBS) MAX. UNBRACED LENGTH (FT) FR-TO

COMPANION LIVE LOAD FACTOR = 1.00

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

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

MAX MIN MAX MIN MAX MIN MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.47 (L) (INPUT = 0.90 ) JSI METAL= 0.16 (C) (INPUT = 1.00 )

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED IN MODULUS ENGINEERING LTD. NOTES ME-TC001 (VER 06/2017) BEFORE USE.

Design valid for use only with Mitek connectors. This design is based only upon parameters shown, and is for individual building components. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult

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MODULUS ENGINEERING LTD.

LICENSED PROFESSIONAL ENGINEER 07/05/2023 D. A. SHERMAN 100123373 PROVINCE OF ONTARIO

REVIEW FOR TRUSS COMPONENT ONLY

NOTE: ALTERING THIS DOCUMENT VOIDS THE ENGINEER'S SEAL

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MODULUS ENGINEERING LTD.

LICENSED PROFESSIONAL ENGINEER 07/05/2023 D. A. SHERMAN 100123373 PROVINCE OF ONTARIO

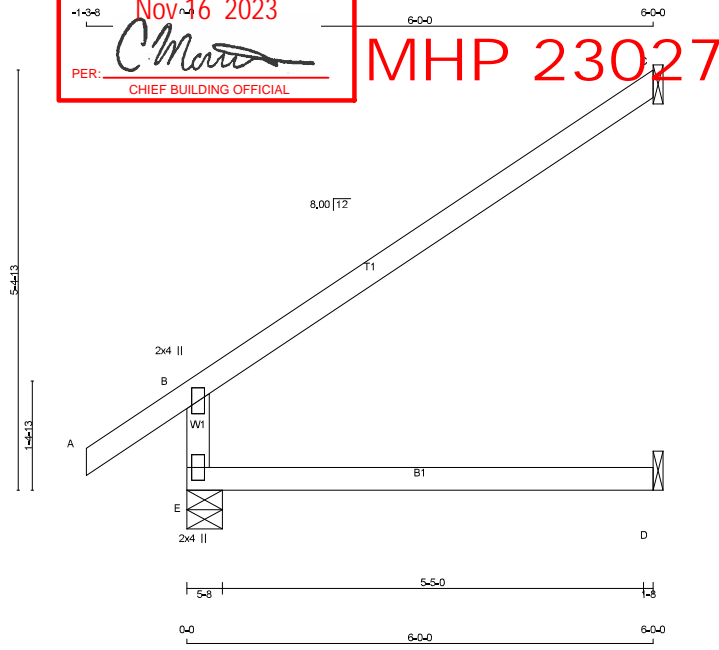
REVIEW FOR TRUSS COMPONENT ONLY

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED IN MODULUS ENGINEERING LTD. NOTES ME-TC001 (VER 06/2017) BEFORE USE.







Scale = 1/23.3

TOTAL WEIGHT = 4 X 18 = 73 lb

**LUMBER**

N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE   | PLATES | W   | LEN | Y | X |
|----|--------|--------|-----|-----|---|---|
| B  | TMV+p  | MT20   | 2.0 | 4.0 |   |   |
| E  | BMV1+p | MT20   | 2.0 | 4.0 |   |   |

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

**BEARINGS**

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQRD BRG |
|----|-------------------------|---------------------------------|-----------|-----------|
| JT | VERT                    | HORZ                            | DOWN      | HORZ      |
| E  | 675                     | 0                               | 675       | 0         |
| C  | 269                     | 0                               | 269       | 0         |
| D  | 46                      | 0                               | 51        | 0         |

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) C, D

**UNFACTORED REACTIONS**

| JT | COMBINED | SNOW    | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |
|----|----------|---------|-------|-----------|-------|---------|-------|
| E  | 469      | 357 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 112 / 0 | 0 / 0 |
| C  | 184      | 157 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 27 / 0  | 0 / 0 |
| D  | 37       | 0 / 0   | 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 = 6.25 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.  
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

**LOADING**

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                           | WEBS     |                           |                           |       |
|--------|---------------------------|---------------------------|---------------------------|----------|---------------------------|---------------------------|-------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. UNBRACED LENGTH (LC) | MEMB.    | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (LC) | FR-TO |
| E-B    | -612 / 0                  | 0.0                       | 0.0                       | 0.13 (4) | 7.81                      |                           |       |
| A-B    | 0 / 45                    | -119.4                    | -119.4                    | 0.16 (1) | 10.00                     |                           |       |
| B-C    | -50 / 0                   | -119.4                    | -119.4                    | 0.73 (1) | 6.25                      |                           |       |
| E-D    | 0 / 0                     | -18.2                     | -18.2                     | 0.14 (4) | 10.00                     |                           |       |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
TOP CH. LL = 34.8 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.3 PSF  
TOTAL LOAD = 48.1 PSF

**SPACING = 240 IN. G/C**

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

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

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

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

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 (0.04")

CSI: TC=0.73/1.00 (B-C:1) BC=0.14/1.00 (D-E:4) , WB=0.00/1.00 (n/a:0) , SSI=0.29/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.38 (B) (INPUT = 0.90 )  
JSI METAL= 0.31 (B) (INPUT = 1.00 )

MODULUS ENGINEERING LTD.



REVIEW FOR TRUSS COMPONENT ONLY

NOTE: ALTERING THIS DOCUMENT  
VOIDS THE ENGINEER'S SEAL

**WARNING** - Verify design parameters and READ NOTES ON THIS AND INCLUDED IN MODULUS ENGINEERING LTD. NOTES ME-TC001 (VER 06/2017) BEFORE USE.  
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T-RIVER 11-1

Kott, Uxbridge, ON

TRUSS NAME

J01C

CORPORATION OF THE CITY OF OSHAWA  
TRUE COPY  
OF PERMIT PLANS  
Nov 16 2023  
  
PER: CHIEF BUILDING OFFICIAL

ZADORRA ESTATES INC.

DRWG NO.  
ME23-5776-12

QUANTITY

Pri Y

JOB DESC.

Version 8.630 S Mar 22 2023 MTek Industries, Inc. Wed Jul 5 10:20:23 2023 Page 1

ID:QRDXUUhXBJX8m6PaWhmZzKxFR-aVWZBSB4DBC6MmHZeMAZ\_8vu2apACQ9donwKPXz79ZM

-1'-3-8

1'-3-8

0'-0

2'-11+0

3'-0-6

6'-0-0

Scale = 1:15,0

A

B

E

F

G

D

3'-4-0

1'-4-13

8,00 [T]

2'x4 ||

T1

Vt1

B1

2'x4 ||

5'-8

2'-4-10

1'-8

2'-10-14

1'-8

0'-0

6'-0-0

TOTAL WEIGHT = 14 lb

LUMBER

N, L, G, A, RULES

CHORDS SIZE

LUMBER

DESCR.

SPF

SPF

SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE

PLATES

W

LEN

Y

X

B TMV+p

MT20

2.0

4.0

E BMV1+p

MT20

2.0

4.0

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

BEARINGS

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

E 441 0 441 0 5-8 1-8

C 133 0 133 0 1-8 1-8

D 44 0 51 0 1-8 1-8

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) C , D

UNFACTORED REACTIONS

JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL

E 309 219 / 0 0 / 0 0 / 0 90 / 0 0 / 0

C 91 78 / 0 0 / 0 0 / 0 13 / 0 0 / 0

D 35 0 / -2 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 = 6,25 FT.

MAX. UNBRAVED 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. FORCE (LBS) FACTORED VERT. LOAD LC1 MAX (PLF) MAX (LC) MEMB. FORCE (LBS) WEBS MAX. FACTORED MAX (CS I(LC))

FR-TO FROM TO LENGTH FR-TO

E-B -385 / 0 0,0 0,0 0,13 (4) 7,81

A-B 0 / 45 -119,4 -119,4 0,16 (1) 6,25

B-C -24 / 0 -119,4 -119,4 0,18 (1) 6,25

E-F 0 / 0 -18,2 -18,2 0,14 (4) 10,00

F-G 0 / 0 -18,2 -18,2 0,14 (4) 10,00

G-D 0 / 0 -18,2 -18,2 0,14 (4) 10,00

FACTORED CONCENTRATED LOADS (LBS)

JT LOC. LC1 MAX- MAX+ FACE DIR. TYPE HEEL CONN.

F 2-0-12 10 1 11 FRONT VERT TOTAL --- C1

G 4-0-12 1 1 --- FRONT VERT TOTAL --- C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH LL = 34,8 PSF DL = 6,0 PSF BOT CH LL = 0,0 PSF DL = 7,3 PSF TOTAL LOAD = 48,1 PSF

SPACING = 240 IN.C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018 ; NBC-2019AE

- PART 9 OF CBC 2012 (2019 AMENDMENT)

- CSA 088-14

- TPIC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 48,1 P.S.F. G.S.L PLUS 8,4 P.S.F. RAIN LOAD) EQUALS 34,8 P.S.F. SPECIFIED ROOF LIVE LOAD

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 (0,04") CSI TC=0,18/1,00 (B-C:1) ; BC=0,14/1,00 (D-E:4) ; WB=0,00/1,00 (n/a:0) ; SSI=0,14/1,00 (B-C:1)

DOL LUMBER=1,00 NAIL=1,00 LS BEND=1,10 COMP=1,10 SHEAR=1,10 TENS=1,10

COMPANION LIVE LOAD FACTOR = 1,00

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

NAIL VALUES

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

MAX MIN MAX MIN MAX MIN

MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0,250 inches

PLATE ROTATION TOL. = 5,0 Deg.

JSI GRIP= 0,24 (B) (INPUT = 0,90 ) JSI METAL= 0,20 (B) (INPUT = 1,00 )

MODULUS ENGINEERING LTD.

REVIEW FOR TRUSS COMPONENT ONLY

NOTE: ALTERING THIS DOCUMENT VOIDS THE ENGINEERS SEAL

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED IN MODULUS ENGINEERING LTD. NOTES ME-TCD01(VER 06/2017) BEFORE USE.

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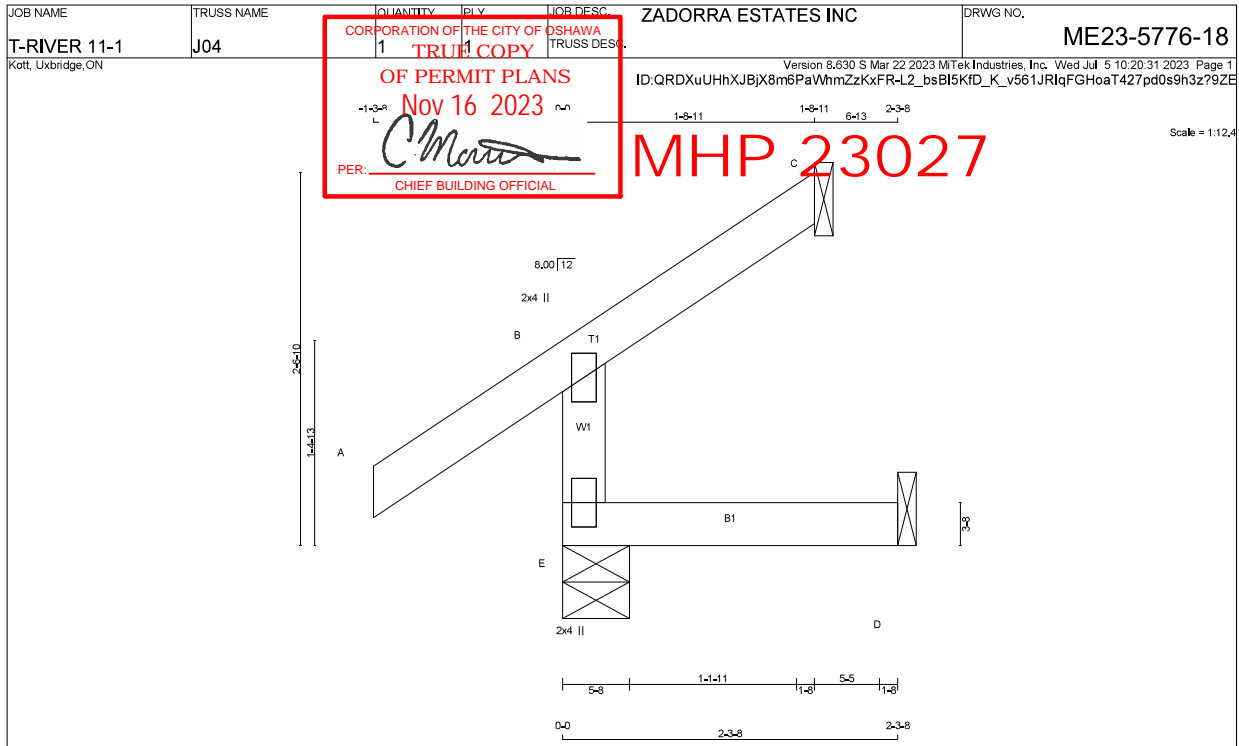












|  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| <div>LUMBER</div> <div>N. L. G. A. RULES</div> <div>CHORDS SIZE LUMBER</div> <div>E - B 2x4 DRY No.2</div> <div>A - C 2x4 DRY No.2</div> <div>E - D 2x4 DRY No.2</div> <div>DRY: SEASONED LUMBER.</div>  |  |  |  |  |  |  |  |  |  | <div>DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER</div> <div>BEARINGS</div> <div>FACTORED GROSS REACTION MAXIMUM FACTORED GROSS REACTION INPUT BRG REQ'D BRG</div> <div>JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX</div> <div>E 350 0 350 0 0 5-8 1-8</div> <div>C 51 0 51 0 -37 1-8 1-8</div> <div>D 11 0 20 0 0 1-8 1-8</div> <div>SEE MITEK STANDARD DETAIL, MSD2015-H FOR CONNECTION TO JOINT(S) C, D</div> <div>PROVIDE ANCHORAGE AT BEARING JOINT C FOR 150 LBS. FACTORED UPLIFT</div> <div>UNFACTORED REACTIONS</div> <div>1ST LCASE MAX./MIN. COMPONENT REACTIONS</div> <div>JT COMBINED SNOW LIVE PER LIVE WIND DEAD SOIL</div> <div>E 241 192/0 0/0 0/0 0/0 49/0 0/0</div> <div>C 35 28/-28 0/0 0/0 0/0 7/0 0/0</div> <div>D 10 0/-8 0/0 0/0 0/0 15/0 0/0</div> <div>BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) E, C</div> <div>BRACING</div> <div>TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.</div> <div>MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.</div> <div>ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.</div> <div>LOADING</div> <div>TOTAL LOAD CASES: (5)</div> <div>CHORDS W E B S</div> <div>MEMB. FACTORED FORCE VERT. LOAD LC1 MAX. MAX. FACTORED FORCE MAX. FACTORED FORCE</div> <div>(LBS) (PLF) CSI (LC) UNBRAC LENGTH FR-TO (LBS) CSI (LC)</div> <div>FR-TO FROM TO</div> <div>E-B -319/0 0.0 0.0 0.04 (5) 7.81</div> <div>A-B 0/45 -119.4 -119.4 0.16 (1) 10.00</div> <div>B-C -29/0 -119.4 -119.4 0.12 (1) 6.25</div> <div>E-D 0/0 -18.2 -18.2 0.04 (5) 10.00</div> <div>CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN</div> <div>PATTERN LOADING CHECK APPLIED TO THIS TRUSS.</div> |  |  |  |  |  |  |  |  |  | <div>DESIGN CRITERIA</div> <div>SPECIFIED LOADS:</div> <div>TOP CH. LL = 34.8 PSF</div> <div>DL = 6.0 PSF</div> <div>BOT CH. LL = 0.0 PSF</div> <div>DL = 7.3 PSF</div> <div>TOTAL LOAD = 48.1 PSF</div> <div>SPACING = 24.0 IN. G.C.</div> <div>THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015</div> <div>THIS DESIGN COMPLIES WITH:</div> <div>- PART 9 OF BCBC 2018, NBC-2019AE</div> <div>- PART 9 OF OBC 2012 (2019 AMENDMENT)</div> <div>- CSA 086-14</div> <div>- TPIC 2014</div> <div>DESIGN ASSUMPTIONS</div> <div>- OVERHANG NOT TO BE ALTERED OR CUT OFF.</div> <div>(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD</div> <div>ALLOWABLE DEFL.(LL)= L/360 (0.19")</div> <div>CALCULATED VERT. DEFL.(LL) = L/999 (0.00")</div> <div>ALLOWABLE DEFL.(TL)= L/360 (0.19")</div> <div>CALCULATED VERT. DEFL.(TL) = L/999 (0.00")</div> <div>CSI TC=0.16/1.00 (A-B 1), BC=0.04/1.00 (D-E 5), WB=0.00/1.00 (n/a 0), SSI=0.11/1.00 (A-B 1)</div> <div>DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10</div> <div>COMPANION LIVE LOAD FACTOR = 1.00</div> <div>TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.</div> <div>NAIL VALUES</div> <div>PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)</div> <div>MAX MIN MAX MIN MAX MIN</div> <div>MT20 650 371 1747 788 1987 1873</div> <div>PLATE PLACEMENT TOL. = 0.250 inches</div> <div>PLATE ROTATION TOL. = 5.0 Deg.</div> <div>JSI GRIP= 0.20 (B) (INPUT = 0.90 )</div> <div>JSI METAL= 0.16 (B) (INPUT = 1.00 )</div> |  |  |  |  |  |  |  |  |  |
| <div>MODULUS ENGINEERING LTD.</div> <div><div><div>07/05/2023</div><div>D. A. SHERMAN</div><div>100123373</div></div><div>LICENSED PROFESSIONAL ENGINEER</div><div>PROVINCE OF ONTARIO</div></div> <div>REVIEW FOR TRUSS COMPONENT ONLY</div> <div>NOTE: ALTERING THIS DOCUMENT VOIDS THE ENGINEERS SEAL</div> |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |







