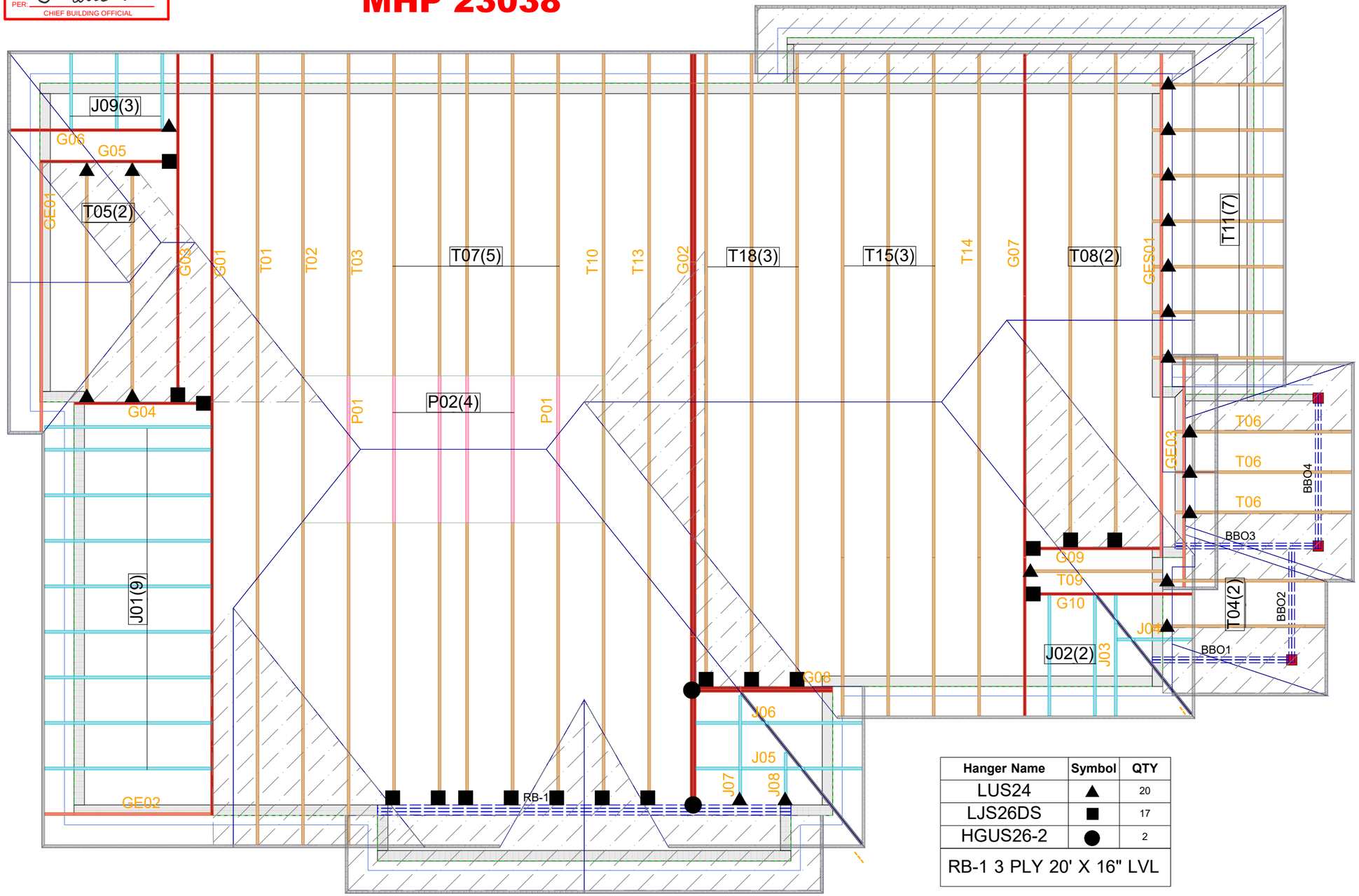
# MHP 23038




| Hanger Name | Symbol | QTY |
|---|---|---|
| LUS24 | ▲ | 20 |
| LJS26DS | ■ | 17 |
| HGUS26-2 | ● | 2 |
| RB-1 3 PLY 20' X 16" LVL | | |

## 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 HOMES |
| Job # | 23-00117R0 |
| Address | ZADORRA ESTATES<br>OSHAWA,ON |
| Model | VILLA 11-ELEV 2 |
| Sales Rep | RALPH MIRIGELLO |
| Designer | RB |
| Date | 6/16/23 |
| Path | C:\MITEK\CA\JOBS\GREENPARK\ZADORRA ESTATES\VILLA 11\VILLA 11-ELEV 2\ |

## DESIGN INFORMATION

| | |
|---|---|
| Code | NBCC 2015 |
| Bldg | Residential - HSB (NBCC Part 9) |
| TC LL | 34.8 lb/ft² |
| TC DL | 6.0 lb/ft² |
| BC LL | 0.0 lb/ft² |
| BC DL | 7.3 lb/ft² |
| 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

# Engineering Notes: Trusses

# MHP 23038

**PLEASE READ ALL NOTES PRIOR TO INSTALLATION OF THE COMPONENT**

## RESPONSIBILITIES

THE UNDERSIGNED ENGINEER IS ONLY RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF THIS BUILDING COMPONENT FOR THE CONDITIONS AND LOADS SHOWN ON CALCULATION PAGE. THE STRUCTURAL INTEGRITY OF THE BUILDING AND THE VERIFICATION OF THE DIMENSIONS AND THE DESIGN LOADS USED ARE THE RESPONSIBILITY OF THE BUILDING DESIGNER.
THE UNDERSIGNED ENGINEER DISCLAIMS ANY RESPONSIBILITY FOR DAMAGES AS A RESULT OF FAULTY OR INCORRECT INFORMATION, SPECIFICATION AND/OR DESIGNS FURNISHED TO THE ENGINEER.
IT IS THE RESPONSIBILITY OF KOTT Inc. TO ENSURE THAT TRUSSES ARE MANUFACTURED IN CONFORMANCE WITH THESE DESIGNS AND WITH THE SPECIFICATIONS OUTLINED BELOW. THE UNDERSIGNED ENGINEER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

## DESIGN INFORMATION

THIS DESIGN IS FOR AN INDIVIDUAL BUILDING COMPONENT AND HAS BEEN BASED ON INFORMATION PROVIDED BY KOTT DESIGN.

1. THE BUILDING USE AND OCCUPANCY TYPE IS AS INDICATED ON THE DRAWING.
2. GEOMETRY OF THE TRUSS AND DIMENSIONS INDICATED ON THE DRAWING ARE IDENTICAL TO THOSE OF THE INSTALLED TRUSS.
3. THE TRUSS LOADING INTENSITY AND DISTRIBUTION AS WELL AS LOAD TRANSFER MECHANISM IS THAT INDICATED ON THE DRAWING. NO BUILDINGS, TREES, PARAPETS OR OTHER PROJECTIONS HIGHER THAN THE ROOF FOR WHICH THE TRUSSES ARE USED ARE LOCATED WITHIN A DISTANCE LESS THAN TEN (10) TIMES THE DIFFERENCE IN HEIGHT, OR FIVE METERS (16 FT) WHICHEVER IS GREATER, UNLESS THE DRAWING INDICATES THAT THE SNOW DRIFTING HAS BEEN TAKEN INTO ACCOUNT.
4. THE TRUSSES ARE TO BE SUPPORTED AT THE BEARING POINTS INDICATED AND ANCHORED TO THE SUPPORTS WHERE CONSIDERED NECESSARY BY THE DESIGNER OF THE OVERALL STRUCTURE. BEARING SIZES SHOWN ARE THE MINIMUM REQUIRED TO PREVENT CRUSHING OF THE TRUSS MEMBERS AND DO NOT NECESSARILY TAKE INTO ACCOUNT STABILITY OF THE OVERALL BUILDING STRUCTURE. ELEVATION OF BEARINGS MUST BE CAREFULLY CHECKED AND SHIMMED TO ALIGNMENT FOR SOLID BEARINGS. ADEQUATE WOOD TRUSS BEARING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER.

## CODE

TRUSSES ARE DESIGNED IN CONFORMANCE WITH THE RELEVANT SECTIONS OF THE NATIONAL BUILDING CODE OF CANADA OR THE CANADIAN CODE FOR FARM BUILDINGS, WHICHEVER APPLIES TO THE BUILDING TYPE INDICATED ON THE DRAWING, THE ONTARIO BUILDING CODE, TPIC AND CANADIAN STANDARDS ASSOCIATION GUIDELINES.

## HANDLING, INSTALLATION AND BRACING

1. THE TRUSSES MUST BE HANDLED AND INSTALLED BY A QUALIFIED PROFESSIONAL AS PER THE SUPPLIED DOCUMENT TITLED INFORMATION FOR TRUSS INSTALLERS AND THE BCSI-B1 AND BCSI-B3 SUMMARY SHEETS.
2. THE COMPRESSION CHORDS ARE LATERALLY BRACED BY CONTINUOUS RIGID DIAPHRAGM SHEATHING OR AS SPECIFIED ON THE DRAWING.
3. TEMPORARY AND PERMANENT BRACING MUST BE INSTALLED AS INDICATED ON THE TRUSS DRAWING AND ACCORDING TO THE BCSI-B1 AND BCSI-B3 SUMMARY SHEETS. BRACING FOR THE LATERAL STABILITY OF THE TRUSS IS TO BE PROVIDED BY THE BUILDING DESIGNER.
4. IT IS RECOMMENDED THAT A PROFESSIONAL ENGINEER'S ADVICE BE OBTAINED FOR THE BRACING OF TRUSSES SPANNING MORE THAN 12.37M (40'-7").

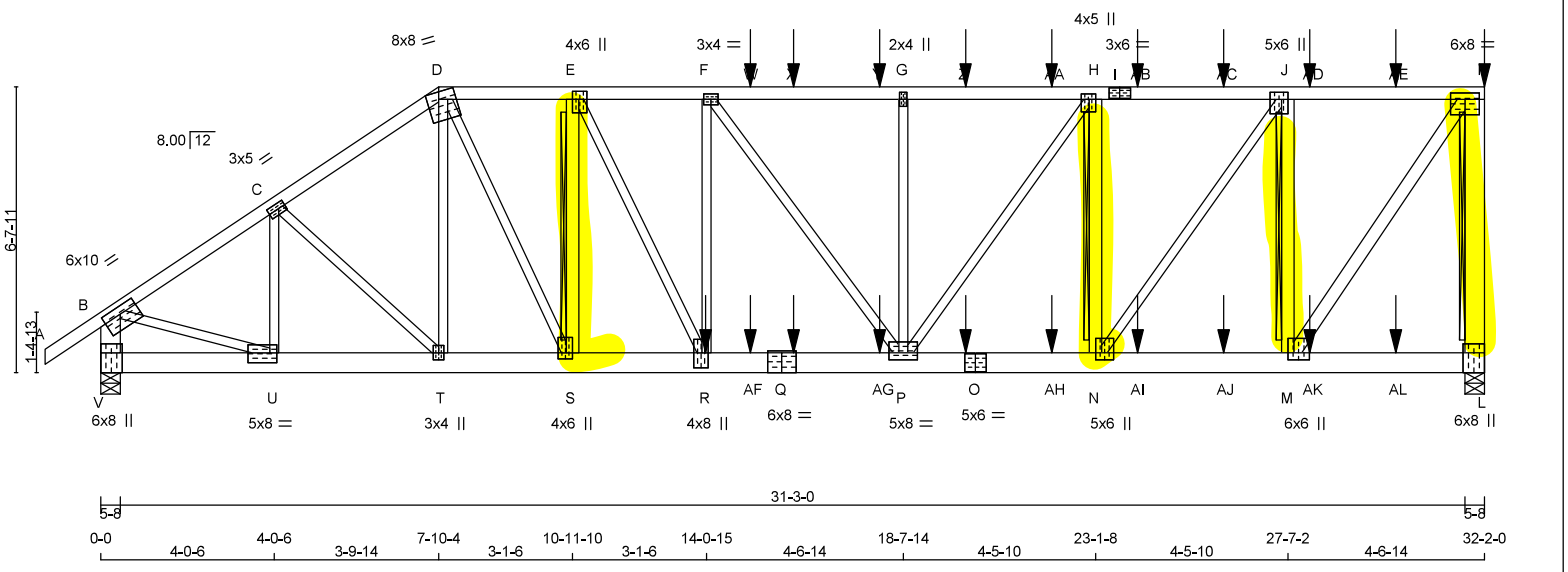
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | DRWG NO. |
|---|---|---|---|---|---|
| NE0723-126 | G01 | 1 | 1 | TRUSS DESC. | |

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Wed Jul 19 16:45:11 2023 Page 1
ID:a_geEeAITwiPs63VUzyy33z8f4n-1oJMXSyBRADEuVS8JkxwK77NkbGJ4PzWzilAd3ywScc



-1-3-8 0-0 1-3-8 3-9-14 7-10-4 3-1-6 10-11-10 3-1-6 14-0-15 18-7-14 23-1-8 4-5-10 27-7-2 4-6-14 32-2-0

Scale = 1:53.5




31-3-0
5-8 5-8
0-0 4-0-6 4-0-6 3-9-14 7-10-4 3-1-6 10-11-10 3-1-6 14-0-15 4-6-14 18-7-14 4-5-10 23-1-8 4-5-10 27-7-2 4-6-14 32-2-0

TOTAL WEIGHT = 191 lb [M]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| A - D | 2x4 | DRY | No.2 | SPF |
| D - I | 2x4 | DRY | 2100F 1.8E | SPF |
| I - K | 2x4 | DRY | 2100F 1.8E | SPF |
| L - K | 2x6 | DRY | No.2 | SPF |
| V - B | 2x6 | DRY | No.2 | SPF |
| V - Q | 2x6 | DRY | No.2 | SPF |
| Q - O | 2x6 | DRY | No.2 | SPF |
| O - L | 2x6 | DRY | No.2 | SPF |
| ALL WEBS EXCEPT | 2x3 | DRY | No.2 | SPF |
| S - E | 2x4 | DRY | No.2 | SPF |
| N - H | 2x4 | DRY | No.2 | SPF |
| M - J | 2x4 | DRY | No.2 | SPF |
| M - K | 2x4 | DRY | No.2 | SPF |

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE | PLATES | W | LEN | Y | X |
|---|---|---|---|---|---|---|
| B | TMVW-t | MT20 | 6.0 | 10.0 | 2.00 | 5.00 |
| C | TMVW-t | MT20 | 3.0 | 5.0 | 1.50 | 2.00 |
| D | TTWW-m | MT20 | 8.0 | 8.0 | 2.00 | 3.25 |
| E | TMWW+t | MT20 | 4.0 | 6.0 | 2.25 | 1.75 |
| F | TMWW-t | MT20 | 3.0 | 4.0 | | |
| G | TMW+w | MT20 | 2.0 | 4.0 | | |
| H | TMWW+t | MT20 | 4.0 | 5.0 | 1.50 | 1.75 |
| I | TS-t | MT20 | 3.0 | 6.0 | | |
| J | TMWW+t | MT20 | 5.0 | 6.0 | 2.00 | 1.75 |
| K | TMVW-t | MT20 | 6.0 | 8.0 | 1.75 | 4.00 |
| L | BMV1+t | MT20 | 6.0 | 8.0 | Edge | 0.50 |
| M | BMWW+t | MT20 | 6.0 | 6.0 | 2.00 | 1.75 |
| N | BMWW+t | MT20 | 5.0 | 6.0 | 2.00 | 1.75 |
| O | BS-t | MT20 | 5.0 | 6.0 | | |
| P | BMWWW-t | MT20 | 5.0 | 8.0 | 2.00 | 4.00 |
| Q | BS-t | MT20 | 6.0 | 8.0 | | |
| R | BMWW+t | MT20 | 4.0 | 8.0 | 4.25 | 1.75 |
| S | BMWW+t | MT20 | 4.0 | 6.0 | 1.75 | 1.75 |
| T | BMWW+t | MT20 | 3.0 | 4.0 | | |
| U | BMWW-t | MT20 | 5.0 | 8.0 | 2.75 | 2.00 |
| V | BMV1+t | MT20 | 6.0 | 8.0 | 5.50 | |


**READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.**

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

**BEARINGS**

| JT | FACTORED GROSS REACTION VERT | HORZ | MAXIMUM FACTORED GROSS REACTION DOWN | HORZ | UPLIFT | INPUT BRG IN-SX | REQRD BRG IN-SX |
|---|---|---|---|---|---|---|---|
| L | 4133 | 0 | 4133 | 0 | 0 | 5-8 | 5-8 |
| V | 3846 | 0 | 3846 | 0 | 0 | 5-8 | 5-8 |

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| L | 2891 | 2079 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 811 / 0 | 0 / 0 |
| V | 2684 | 1964 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 720 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) L, V
BEARING SIZE FACTOR = 1.15 AT JNT(S) L, V ( BASED ON SUPPORT DEPTH = 1-8 )

**BRACING**
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.51 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

2x4 DRY SPF No.2 T-BRACE AT K-L, E-S, H-N, J-M

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

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

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

| CHORDS MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD LC1 FROM | TO | MAX CSI (LC) | MAX. UNBRAC LENGTH |
|---|---|---|---|---|---|
| A- B | 0 / 45 | -119.4 | -119.4 | 0.18 (1) | 10.00 |
| B- C | -4471 / 0 | -119.4 | -119.4 | 0.69 (1) | 2.68 |
| C- D | -4802 / 0 | -119.4 | -119.4 | 0.72 (1) | 2.51 |
| D- E | -5136 / 0 | -119.4 | -119.4 | 0.26 (1) | 3.65 |
| E- F | -6115 / 0 | -119.4 | -119.4 | 0.45 (1) | 3.15 |
| F- W | -5745 / 0 | -119.4 | -119.4 | 0.61 (1) | 3.08 |
| W- X | -5745 / 0 | -119.4 | -119.4 | 0.61 (1) | 3.08 |
| X- Y | -5745 / 0 | -119.4 | -119.4 | 0.61 (1) | 3.08 |
| Y- G | -5745 / 0 | -119.4 | -119.4 | 0.61 (1) | 3.08 |
| G- Z | -5745 / 0 | -119.4 | -119.4 | 0.61 (1) | 3.08 |
| Z-AA | -5745 / 0 | -119.4 | -119.4 | 0.61 (1) | 3.08 |
| AA- H | -5745 / 0 | -119.4 | -119.4 | 0.61 (1) | 3.08 |
| H- I | -4575 / 0 | -119.4 | -119.4 | 0.58 (1) | 3.42 |
| I-AB | -4575 / 0 | -119.4 | -119.4 | 0.58 (1) | 3.42 |
| AB-AC | -4575 / 0 | -119.4 | -119.4 | 0.58 (1) | 3.42 |
| AC- J | -4575 / 0 | -119.4 | -119.4 | 0.58 (1) | 3.42 |
| J-AD | -2738 / 0 | -119.4 | -119.4 | 0.48 (1) | 4.40 |
| AD-AE | -2738 / 0 | -119.4 | -119.4 | 0.48 (1) | 4.40 |
| AE- K | -2738 / 0 | -119.4 | -119.4 | 0.48 (1) | 4.40 |
| L- K | -4089 / 0 | 0.0 | 0.0 | 0.72 (1) | 7.81 |
| V- B | -3778 / 0 | 0.0 | 0.0 | 0.27 (1) | 5.39 |
| V- U | 0 / 0 | -18.2 | -18.2 | 0.09 (1) | 10.00 |
| U- T | 0 / 3743 | -18.2 | -18.2 | 0.58 (1) | 10.00 |
| T- S | 0 / 3964 | -18.2 | -18.2 | 0.58 (1) | 10.00 |
| S- R | 0 / 5136 | -18.2 | -18.2 | 0.77 (1) | 10.00 |
| R-AF | 0 / 6115 | -18.2 | -18.2 | 0.93 (1) | 10.00 |
| AF- Q | 0 / 6115 | -18.2 | -18.2 | 0.93 (1) | 10.00 |
| Q-AG | 0 / 6115 | -18.2 | -18.2 | 0.93 (1) | 10.00 |
| AG- P | 0 / 6115 | -18.2 | -18.2 | 0.93 (1) | 10.00 |
| P- O | 0 / 4575 | -18.2 | -18.2 | 0.66 (1) | 10.00 |
| O-AH | 0 / 4575 | -18.2 | -18.2 | 0.66 (1) | 10.00 |
| AH- N | 0 / 4575 | -18.2 | -18.2 | 0.66 (1) | 10.00 |
| N-AI | 0 / 2738 | -18.2 | -18.2 | 0.41 (1) | 10.00 |
| AI-AJ | 0 / 2738 | -18.2 | -18.2 | 0.41 (1) | 10.00 |
| AJ- M | 0 / 2738 | -18.2 | -18.2 | 0.41 (1) | 10.00 |
| M-AK | 0 / 0 | -18.2 | -18.2 | 0.09 (4) | 10.00 |
| AK-AL | 0 / 0 | -18.2 | -18.2 | 0.09 (4) | 10.00 |
| AL- L | 0 / 0 | -18.2 | -18.2 | 0.09 (4) | 10.00 |

| WEBS MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
|---|---|---|
| U- C | -941 / 0 | 0.24 (1) |
| C- T | 0 / 305 | 0.08 (1) |
| T- D | -67 / 34 | 0.05 (1) |
| D- S | 0 / 2628 | 0.65 (1) |
| S- E | -2268 / 0 | 0.54 (1) |
| E- R | 0 / 2201 | 0.54 (1) |
| R- F | -208 / 13 | 0.14 (1) |
| F- P | -628 / 0 | 0.75 (1) |
| P- G | -950 / 0 | 0.66 (1) |
| P- H | 0 / 2015 | 0.50 (1) |
| N- H | -2455 / 0 | 0.59 (1) |
| N- J | 0 / 3163 | 0.78 (1) |
| M- J | -3568 / 0 | 0.86 (1) |
| M- K | 0 / 4643 | 0.82 (1) |
| B- U | 0 / 3856 | 0.95 (1) |

**DESIGN CRITERIA**

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

SPECIFIED LOADS:

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

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

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

*** NON STANDARD GIRDER ***
ADDT'L 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 (1.07")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.26")
ALLOWABLE DEFL.(TL)= L/360 (1.07")
CALCULATED VERT. DEFL.(TL) = L/ 856 (0.45")

CSI: TC=0.72/0.97 (K-L:1) , BC=0.93/0.97 (P-R:1) , WB=0.95/0.97 (B-U:1) , SSI=0.48/1.00 (J-K:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

| PLATE | GRIP(DRY) (PSI) MAX | MIN | SHEAR (PLI) MAX | MIN | SECTION (PLI) 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 (M) (INPUT = 0.90 )
JSI METAL= 0.99 (Q) (INPUT = 1.00 )

CONTINUED ON PAGE 2

KOTT

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | DRWG NO. |
|---|---|---|---|---|---|
| NE0723-126 | G01 | 1 | 1 | TRUSS DESC. | |





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

**MHP 23038**

SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC. | LC1 | MAX- | MAX+ | FACE | DIR. | TYPE | HEEL | CONN. |
|---|---|---|---|---|---|---|---|---|---|
| K | 32-2-0 | -41 | -41 | — | TOP | VERT | TOTAL | — | C1 |
| O | 20-1-4 | -23 | -23 | — | FRONT | VERT | TOTAL | — | C1 |
| Q | 16-1-4 | -23 | -23 | — | FRONT | VERT | TOTAL | — | C1 |
| R | 14-0-12 | -1205 | -1205 | — | FRONT | VERT | TOTAL | — | C1 |
| W | 15-1-4 | -102 | -102 | — | FRONT | VERT | TOTAL | — | C1 |
| X | 16-1-4 | -102 | -102 | — | FRONT | VERT | TOTAL | — | C1 |
| Y | 18-1-4 | -102 | -102 | — | FRONT | VERT | TOTAL | — | C1 |
| Z | 20-1-4 | -102 | -102 | — | FRONT | VERT | TOTAL | — | C1 |
| AA | 22-1-4 | -102 | -102 | — | FRONT | VERT | TOTAL | — | C1 |
| AB | 24-1-4 | -102 | -102 | — | FRONT | VERT | TOTAL | — | C1 |
| AC | 26-1-4 | -102 | -102 | — | FRONT | VERT | TOTAL | — | C1 |
| AD | 28-1-4 | -102 | -102 | — | FRONT | VERT | TOTAL | — | C1 |
| AE | 30-1-4 | -102 | -102 | — | FRONT | VERT | TOTAL | — | C1 |
| AF | 15-1-4 | -23 | -23 | — | FRONT | VERT | TOTAL | — | C1 |
| AG | 18-1-4 | -23 | -23 | — | FRONT | VERT | TOTAL | — | C1 |
| AH | 22-1-4 | -23 | -23 | — | FRONT | VERT | TOTAL | — | C1 |
| AI | 24-1-4 | -23 | -23 | — | FRONT | VERT | TOTAL | — | C1 |
| AJ | 26-1-4 | -23 | -23 | — | FRONT | VERT | TOTAL | — | C1 |
| AK | 28-1-4 | -23 | -23 | — | FRONT | VERT | TOTAL | — | C1 |
| AL | 30-1-4 | -23 | -23 | — | FRONT | VERT | TOTAL | — | C1 |

**CONNECTION REQUIREMENTS**

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

LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
PROVINCE OF ONTARIO
Jul 19, 2023

**READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.**

KOTT

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | DRWG NO. |
|---|---|---|---|---|---|
| NE0723-126 | G02 | 1 | 2 | TRUSS DESC. | |

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Wed Jul 19 16:45:12 2023 Page 1
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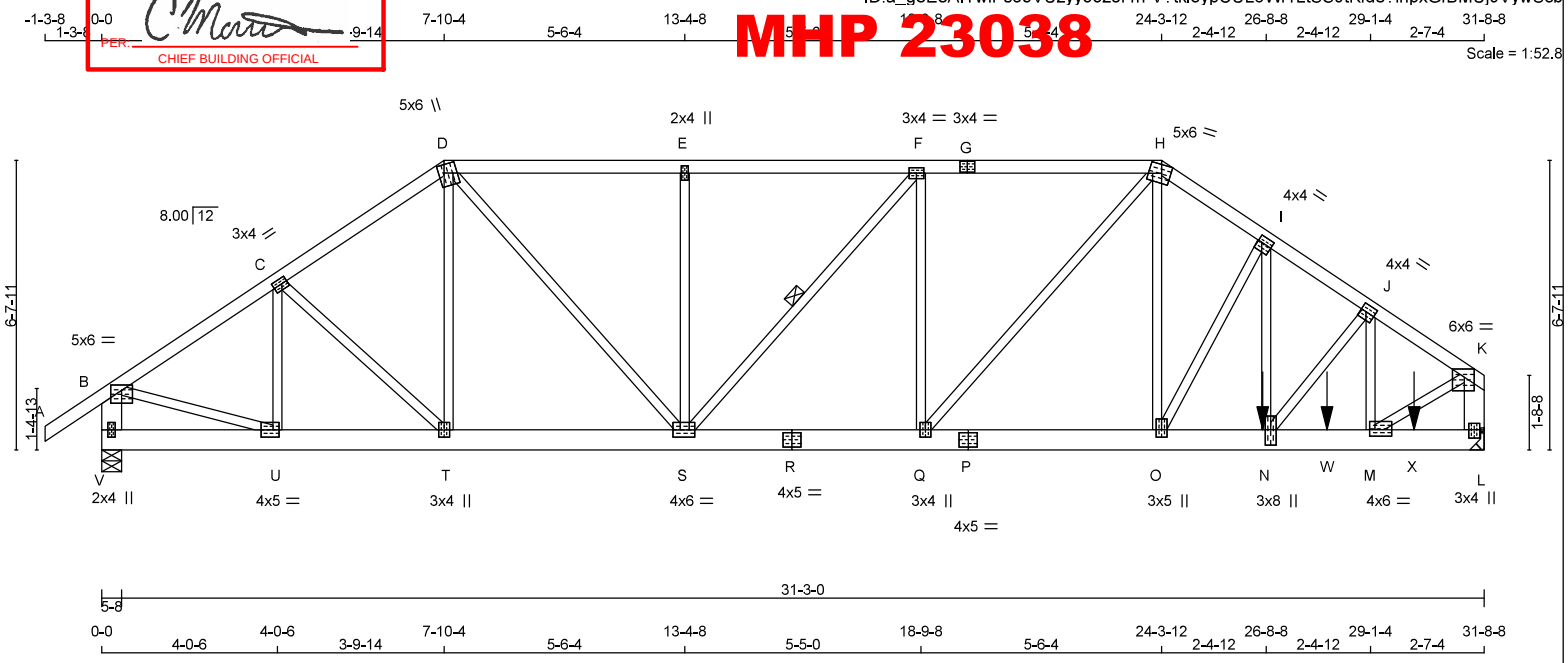
MHP 23038




TOTAL WEIGHT = 2 X 165 = 330 lb [M]

**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 - H | 2x4 | DRY | No.2 | SPF |
| H - K | 2x4 | DRY | No.2 | SPF |
| V - B | 2x6 | DRY | No.2 | SPF |
| L - K | 2x6 | DRY | No.2 | SPF |
| V - R | 2x6 | DRY | No.2 | SPF |
| R - P | 2x6 | DRY | No.2 | SPF |
| P - L | 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 | TOP |
| D-G | 1 | 12 | TOP |
| G-H | 1 | 12 | TOP |
| H-K | 1 | 12 | TOP |
| V-B | 2 | 12 | TOP |
| L-K | 2 | 12 | TOP |
| BOTTOM CHORDS : (0.122"X3") SPIRAL NAILS | | | |
| V-R | 2 | 12 | TOP |
| R-P | 2 | 12 | TOP |
| P-L | 2 | 12 | SIDE(0.0) |
| WEBS : (0.122"X3") SPIRAL NAILS | | | |
| 2x3 | 1 | 6 | |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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


**READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.**

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

**BEARINGS**

| JT | FACTORED GROSS REACTION VERT | HORZ | MAXIMUM FACTORED GROSS REACTION DOWN | HORZ | UPLIFT | INPUT BRG IN-SX | REQRD BRG IN-SX |
|---|---|---|---|---|---|---|---|
| V | 2964 | 0 | 2964 | 0 | 0 | 5-8 | 1-10 |
| L | 5509 | 0 | 5509 | 0 | 0 | MECHANICAL | |

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT L. MINIMUM BEARING LENGTH AT JOINT L = 3-7.

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| V | 2068 | 1515 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 553 / 0 | 0 / 0 |
| L | 3849 | 2791 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 1058 / 0 | 0 / 0 |

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

**BRACING**
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.67 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 1x4 LATERAL BRACE(S) AT 1/ 2 LENGTH OF F-S. DBS = 20-0-0 . CBF = 98 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE (PER BRACE). FASTEN LATERAL BRACE(S) TO EACH PLY USING (0.122"X3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

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. FR-TO | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) FROM | TO | LC | MAX CSI (LC) | MAX. UNBRAC LENGTH | WEBS MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
|---|---|---|---|---|---|---|---|---|---|
| A- B | 0 / 45 | -119.4 | -119.4 | 0.09 (1) | 10.00 | U- C | -683 / 0 | 0.09 (1) | |
| B- C | -3325 / 0 | -119.4 | -119.4 | 0.21 (1) | 4.88 | C- T | 0 / 85 | 0.01 (1) | |
| C- D | -3463 / 0 | -119.4 | -119.4 | 0.21 (1) | 4.80 | T- D | 0 / 90 | 0.02 (4) | |
| D- E | -4063 / 0 | -119.4 | -119.4 | 0.36 (1) | 4.33 | D- S | 0 / 1827 | 0.23 (1) | |
| E- F | -4063 / 0 | -119.4 | -119.4 | 0.36 (1) | 4.33 | S- E | -703 / 0 | 0.24 (1) | |
| F- G | -4575 / 0 | -119.4 | -119.4 | 0.39 (1) | 4.10 | S- F | -782 / 0 | 0.18 (1) | |
| G- H | -4575 / 0 | -119.4 | -119.4 | 0.39 (1) | 4.10 | Q- F | -112 / 56 | 0.04 (1) | |
| H- I | -5268 / 0 | -119.4 | -119.4 | 0.15 (1) | 4.08 | Q- H | 0 / 251 | 0.03 (1) | |
| I- J | -6533 / 0 | -119.4 | -119.4 | 0.20 (1) | 3.67 | O- H | 0 / 2331 | 0.29 (1) | |
| J- K | -5479 / 0 | -119.4 | -119.4 | 0.17 (1) | 4.00 | O- I | -2242 / 0 | 0.52 (1) | |
| V- B | -2905 / 0 | 0.0 | 0.0 | 0.10 (1) | 7.81 | N- I | 0 / 2372 | 0.29 (1) | |
| L- K | -5475 / 0 | 0.0 | 0.0 | 0.20 (1) | 6.20 | N- J | 0 / 1407 | 0.17 (1) | |
| | | | | | | M- J | -1996 / 0 | 0.21 (1) | |
| V- U | 0 / 0 | -18.2 | -18.2 | 0.04 (1) | 10.00 | B- U | 0 / 2874 | 0.36 (1) | |
| U- T | 0 / 2790 | -18.2 | -18.2 | 0.21 (1) | 10.00 | M- K | 0 / 5102 | 0.63 (1) | |
| T- S | 0 / 2853 | -18.2 | -18.2 | 0.21 (1) | 10.00 | | | | |
| S- R | 0 / 4575 | -18.2 | -18.2 | 0.33 (1) | 10.00 | | | | |
| R- Q | 0 / 4575 | -18.2 | -18.2 | 0.33 (1) | 10.00 | | | | |
| Q- P | 0 / 4408 | -18.2 | -18.2 | 0.34 (1) | 10.00 | | | | |
| P- O | 0 / 4408 | -18.2 | -18.2 | 0.34 (1) | 10.00 | | | | |
| O- N | 0 / 5433 | -18.2 | -18.2 | 0.54 (1) | 10.00 | | | | |
| N- W | 0 / 4562 | -18.2 | -18.2 | 0.48 (1) | 10.00 | | | | |
| W- M | 0 / 4562 | -18.2 | -18.2 | 0.48 (1) | 10.00 | | | | |
| M- X | 0 / 0 | -18.2 | -18.2 | 0.01 (4) | 10.00 | | | | |
| X- L | 0 / 0 | -18.2 | -18.2 | 0.01 (4) | 10.00 | | | | |

SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC. | LC1 | MAX- | MAX+ | FACE | DIR. | TYPE | HEEL | CONN. |
|---|---|---|---|---|---|---|---|---|---|
| N | 26-7-9 | -2710 | -2710 | — | BACK | VERT | TOTAL | — | C1 |
| W | 28-1-4 | -23 | -23 | — | BACK | VERT | TOTAL | — | C1 |
| X | 30-1-4 | -22 | -22 | — | 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 | = | 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**

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

*** NON STANDARD GIRDER ***
ADDT'L 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 (1.06")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.09")
ALLOWABLE DEFL.(TL)= L/360 (1.06")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.16")

CSI: TC=0.39/0.97 (F-H:1) , BC=0.54/0.97 (N-O:1) , WB=0.63/0.97 (K-M:1) , SSI=0.17/1.00 (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) (PSI) MAX | MIN | SHEAR (PLI) MAX | MIN | SECTION (PLI) 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 (S) (INPUT = 0.90 )
JSI METAL= 0.54 (M) (INPUT = 1.00 )

CONTINUED ON PAGE 2

KOTT

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | DRWG NO. |
|---|---|---|---|---|---|
| NE0723-126 | G02 | 1 | 2 | TRUSS DESC. | |





**MHP 23038**

**PLATES** (table is in in...)

| JT | TYPE | PLATES | W | L | END | OFFSET |
|---|---|---|---|---|---|---|
| B | TMVW-p | MT20 | 3.0 | 6.0 | 1.50 | 3.00 |
| C | TMWW-t | MT20 | 3.0 | 4.0 | 1.50 | 1.50 |
| D | TTWW+m | MT20 | 5.0 | 6.0 | 2.25 | 1.50 |
| E | TMW+w | MT20 | 2.0 | 4.0 | | |
| F | TMWW-t | MT20 | 3.0 | 4.0 | | |
| G | TS-t | MT20 | 3.0 | 4.0 | | |
| H | TTWW-m | MT20 | 5.0 | 6.0 | Edge | 2.50 |
| I | TMWW-t | MT20 | 4.0 | 4.0 | 1.75 | 1.00 |
| J | TMWW-t | MT20 | 4.0 | 4.0 | 2.00 | 1.50 |
| K | TMVW-p | MT20 | 6.0 | 6.0 | 2.25 | 2.75 |
| L | BMV1+p | MT20 | 3.0 | 4.0 | 2.25 | 1.50 |
| M | BMWW-t | MT20 | 4.0 | 6.0 | 1.75 | 1.50 |
| N | BMWW+t | MT20 | 3.0 | 8.0 | 4.25 | 1.50 |
| O | BMWW+t | MT20 | 3.0 | 5.0 | 2.00 | 1.50 |
| P | BS-t | MT20 | 4.0 | 5.0 | | |
| Q | BMWW+t | MT20 | 3.0 | 4.0 | | |
| R | BS-t | MT20 | 4.0 | 5.0 | | |
| S | BMWWW-t | MT20 | 4.0 | 6.0 | 2.00 | 2.00 |
| T | BMWW+t | MT20 | 3.0 | 4.0 | | |
| U | BMWW-t | MT20 | 4.0 | 5.0 | 2.00 | 1.75 |
| V | BMV1+p | MT20 | 2.0 | 4.0 | | |

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

LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
PROVINCE OF ONTARIO
Jul 19, 2023

**READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.**

KOTT

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | DRWG NO. |
|---|---|---|---|---|---|
| NE0723-126 | G03 | 1 | 1 | TRUSS DESC. | |

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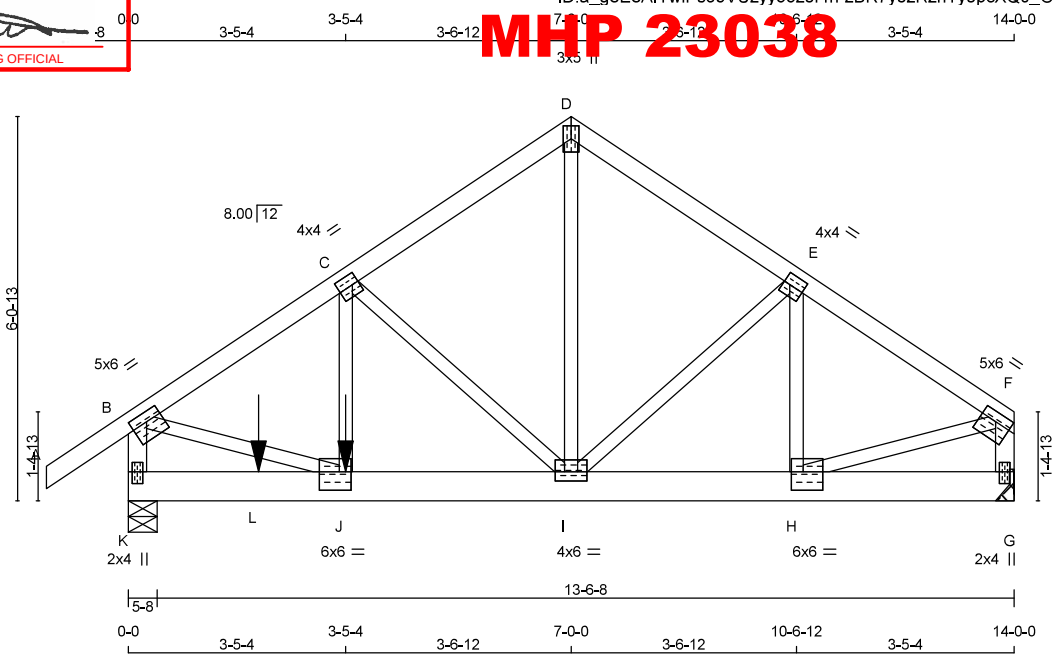


TOTAL WEIGHT = 70 lb [M]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| A - D | 2x4 | DRY | No.2 | SPF |
| D - F | 2x4 | DRY | No.2 | SPF |
| K - B | 2x4 | DRY | No.2 | SPF |
| G - F | 2x4 | DRY | No.2 | SPF |
| K - G | 2x6 | DRY | No.2 | SPF |
| ALL WEBS EXCEPT | 2x3 | DRY | No.2 | SPF |

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE | PLATES | W | LEN | Y | X |
|---|---|---|---|---|---|---|
| B | TMVW-t | MT20 | 5.0 | 6.0 | 1.75 | 3.00 |
| C | TMWW-t | MT20 | 4.0 | 4.0 | 2.00 | 1.25 |
| D | TTW+p | MT20 | 3.0 | 5.0 | | |
| E | TMWW-t | MT20 | 4.0 | 4.0 | 2.00 | 1.25 |
| F | TMVW-t | MT20 | 5.0 | 6.0 | 1.75 | Edge |
| G | BMV1+p | MT20 | 2.0 | 4.0 | 2.25 | 1.00 |
| H | BMWW-t | MT20 | 6.0 | 6.0 | 3.50 | 2.25 |
| I | BMWWW-t | MT20 | 4.0 | 6.0 | 1.75 | 3.00 |
| J | BMWW-t | MT20 | 6.0 | 6.0 | 3.50 | 2.25 |
| K | BMV1+p | MT20 | 2.0 | 4.0 | 2.25 | 1.00 |

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 VERT | HORZ | MAXIMUM FACTORED GROSS REACTION DOWN | HORZ | UPLIFT | INPUT BRG IN-SX | REQRD BRG IN-SX |
|---|---|---|---|---|---|---|---|
| K | 2290 | 0 | 2290 | 0 | 0 | 5-8 | 3-15 |
| G | 1293 | 0 | 1293 | 0 | 0 | MECHANICAL | |

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

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| K | 1594 | 1191 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 404 / 0 | 0 / 0 |
| G | 902 | 659 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 243 / 0 | 0 / 0 |

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

**BRACING**
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.21 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: (4)

| CHORDS MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) FROM | TO | LC1 MAX CSI (LC) | WEBS MAX. UNBRAC LENGTH | MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
|---|---|---|---|---|---|---|---|---|
| A- B | 0 / 45 | -119.4 | -119.4 | 0.18 (1) | 10.00 | I- D | 0 / 1006 | 0.25 (1) |
| B- C | -2209 / 0 | -119.4 | -119.4 | 0.32 (1) | 4.21 | I- E | -184 / 0 | 0.07 (1) |
| C- D | -1234 / 0 | -119.4 | -119.4 | 0.26 (1) | 5.39 | H- E | -297 / 0 | 0.07 (1) |
| D- E | -1236 / 0 | -119.4 | -119.4 | 0.28 (1) | 5.36 | C- I | -1159 / 0 | 0.45 (1) |
| E- F | -1346 / 0 | -119.4 | -119.4 | 0.28 (1) | 5.18 | J- C | 0 / 848 | 0.21 (1) |
| K- B | -2103 / 0 | 0.0 | 0.0 | 0.23 (1) | 5.71 | B- J | 0 / 1935 | 0.48 (1) |
| G- F | -1251 / 0 | 0.0 | 0.0 | 0.14 (1) | 7.06 | H- F | 0 / 1189 | 0.29 (1) |
| K- L | 0 / 0 | -18.2 | -18.2 | 0.26 (1) | 10.00 | | | |
| L- J | 0 / 0 | -18.2 | -18.2 | 0.26 (1) | 10.00 | | | |
| J- I | 0 / 1858 | -18.2 | -18.2 | 0.26 (1) | 10.00 | | | |
| I- H | 0 / 1142 | -18.2 | -18.2 | 0.18 (1) | 10.00 | | | |
| H- G | 0 / 0 | -18.2 | -18.2 | 0.04 (1) | 10.00 | | | |

SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC. | LC1 | MAX- | MAX+ | FACE | DIR. | TYPE | HEEL | CONN. |
|---|---|---|---|---|---|---|---|---|---|
| J | 3-5-4 | -775 | -775 | — | FRONT | VERT | TOTAL | — | C1 |
| L | 2-0-12 | -263 | -263 | — | FRONT | 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 | = | 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**

*** NON STANDARD GIRDER ***
ADDT'L 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 (0.47")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.47")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.06")

CSI: TC=0.32/0.97 (B-C:1) , BC=0.26/0.97 (I-J:1) , WB=0.48/0.97 (B-J:1) , SSI=0.18/1.00 (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

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

NAIL VALUES

| PLATE | GRIP(DRY) (PSI) MAX | MIN | SHEAR (PLI) MAX | MIN | SECTION (PLI) 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 (K) (INPUT = 0.90 )
JSI METAL= 0.57 (B) (INPUT = 1.00 )



**READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.**

KOTT

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | DRWG NO. |
|---|---|---|---|---|---|
| NE0723-126 | G04 | 1 | 1 | TRUSS DESC. | |





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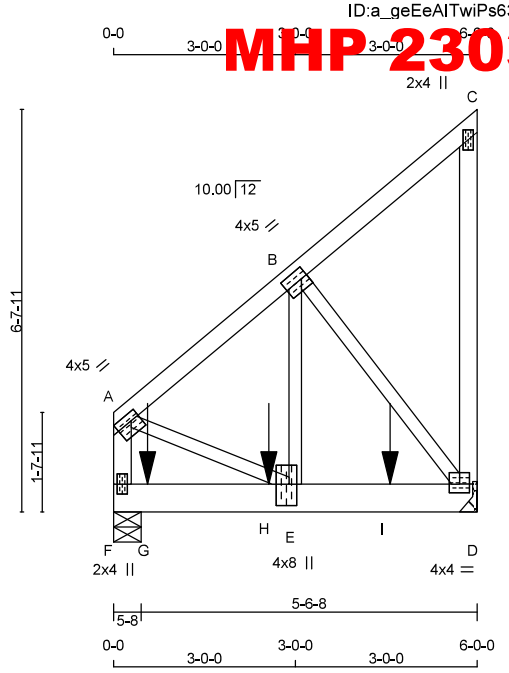


TOTAL WEIGHT = 36 lb [M]

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

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

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE | PLATES | W | LEN | Y | X |
|---|---|---|---|---|---|---|
| A | TMVW-t | MT20 | 4.0 | 5.0 | 1.50 | 1.75 |
| B | TMVW-t | MT20 | 4.0 | 5.0 | 2.00 | 1.25 |
| C | TMV+p | MT20 | 2.0 | 4.0 | | |
| D | BMVW1-t | MT20 | 4.0 | 4.0 | 1.75 | 2.00 |
| E | BMVW+t | MT20 | 4.0 | 8.0 | 4.25 | 1.50 |
| F | BMV1+p | MT20 | 2.0 | 4.0 | | |

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

**BEARINGS**

| JT | FACTORED GROSS REACTION VERT | HORZ | MAXIMUM FACTORED GROSS REACTION DOWN | HORZ | UPLIFT | INPUT BRG IN-SX | REQRD BRG IN-SX |
|---|---|---|---|---|---|---|---|
| D | 1750 | 0 | 1750 | 0 | 0 | MECHANICAL | |
| F | 1764 | 0 | 1764 | 0 | 0 | 5-8 | 2-4 |

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT D. MINIMUM BEARING LENGTH AT JOINT D = 1-14.

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| D | 1220 | 901 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 319 / 0 | 0 / 0 |
| F | 1230 | 907 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 322 / 0 | 0 / 0 |

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

**BRACING**
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.74 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. FR-TO | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) FROM | TO | LC1 MAX CSI (LC) | MAX UNBRAC LENGTH | WEBS MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
|---|---|---|---|---|---|---|---|---|
| A- B | -1091 / 0 | -119.4 | -119.4 | 0.20 (1) | 5.74 | E- B | 0 / 1341 | 0.33 (1) |
| B- C | -26 / 0 | -119.4 | -119.4 | 0.18 (1) | 6.25 | B- D | -1367 / 0 | 0.49 (1) |
| D- C | -139 / 0 | 0.0 | 0.0 | 0.12 (1) | 7.81 | A- E | 0 / 926 | 0.23 (1) |
| F- A | -1203 / 0 | 0.0 | 0.0 | 0.14 (1) | 7.17 | | | |
| F- G | 0 / 0 | -18.2 | -18.2 | 0.32 (1) | 10.00 | | | |
| G- H | 0 / 0 | -18.2 | -18.2 | 0.32 (1) | 10.00 | | | |
| H- E | 0 / 0 | -18.2 | -18.2 | 0.32 (1) | 10.00 | | | |
| E- I | 0 / 858 | -18.2 | -18.2 | 0.68 (1) | 10.00 | | | |
| I- D | 0 / 858 | -18.2 | -18.2 | 0.68 (1) | 10.00 | | | |

SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC. | LC1 | MAX- | MAX+ | FACE | DIR. | TYPE | HEEL | CONN. |
|---|---|---|---|---|---|---|---|---|---|
| G | 6-12 | -494 | -494 | — | BACK | VERT | TOTAL | — | C1 |
| H | 2-6-12 | -491 | -491 | — | BACK | VERT | TOTAL | — | C1 |
| I | 4-6-12 | -888 | -888 | — | 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 | = | 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**

*** NON STANDARD GIRDER ***
ADDT'L 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 (0.20")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.04")

CSI: TC=0.20/0.97 (A-B:1) , BC=0.68/0.97 (D-E:1) , WB=0.49/0.97 (B-D:1) , SSI=0.60/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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



**READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.**

KOTT

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | DRWG NO. |
|---|---|---|---|---|---|
| NE0723-126 | G05 | 1 | 1 | TRUSS DESC. | |





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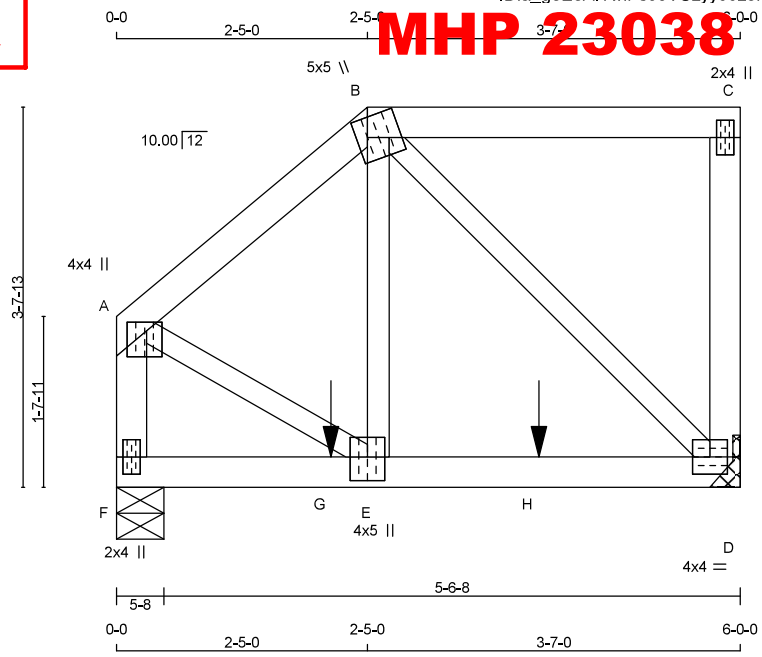


TOTAL WEIGHT = 28 lb [M]

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

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

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE | PLATES | W | LEN | Y | X |
|---|---|---|---|---|---|---|
| A | TMVW+p | MT20 | 4.0 | 4.0 | 1.00 | 2.25 |
| B | TTWW+m | MT20 | 5.0 | 5.0 | 2.25 | 1.25 |
| C | TMV+p | MT20 | 2.0 | 4.0 | | |
| D | BMVW1+t | MT20 | 4.0 | 4.0 | | |
| E | BMWW+t | MT20 | 4.0 | 5.0 | 2.75 | 2.00 |
| F | BMV1+p | MT20 | 2.0 | 4.0 | | |

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

**BEARINGS**

| JT | FACTORED GROSS REACTION VERT | HORZ | MAXIMUM FACTORED GROSS REACTION DOWN | HORZ | UPLIFT | INPUT BRG IN-SX | REQRD BRG IN-SX |
|---|---|---|---|---|---|---|---|
| D | 1132 | 0 | 1132 | 0 | 0 | MECHANICAL | |
| F | 1103 | 0 | 1103 | 0 | 0 | 5-8 | 1-8 |

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

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| D | 789 | 582 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 207 / 0 | 0 / 0 |
| F | 769 | 567 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 202 / 0 | 0 / 0 |

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

**BRACING**
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.21 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: (4)

| CHORDS MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) FROM | TO | LC1 MAX CSI (LC) | WEBS MAX. UNBRAC LENGTH | MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
|---|---|---|---|---|---|---|---|---|
| A- B | -916 / 0 | -119.4 | -119.4 | 0.14 (1) | 6.21 | E- B | 0 / 911 | 0.23 (1) |
| B- C | 0 / 0 | -119.4 | -119.4 | 0.29 (1) | 10.00 | B- D | -996 / 0 | 0.37 (1) |
| D- C | -214 / 0 | 0.0 | 0.0 | 0.05 (1) | 7.81 | A- E | 0 / 789 | 0.20 (1) |
| F- A | -1097 / 0 | 0.0 | 0.0 | 0.13 (1) | 7.43 | | | |
| F- G | 0 / 0 | -18.2 | -18.2 | 0.55 (1) | 10.00 | | | |
| G- E | 0 / 0 | -18.2 | -18.2 | 0.55 (1) | 10.00 | | | |
| E- H | 0 / 729 | -18.2 | -18.2 | 0.77 (1) | 10.00 | | | |
| H- D | 0 / 729 | -18.2 | -18.2 | 0.77 (1) | 10.00 | | | |

SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC. | LC1 | MAX- | MAX+ | FACE | DIR. | TYPE | HEEL | CONN. |
|---|---|---|---|---|---|---|---|---|---|
| G | 2-0-12 | -491 | -491 | — | FRONT | VERT | TOTAL | — | C1 |
| H | 4-0-12 | -491 | -491 | — | FRONT | 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 | = | 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**

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

*** NON STANDARD GIRDER ***
ADDT'L 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 (0.20")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/ 865 (0.08")

CSI: TC=0.29/0.97 (B-C:1) , BC=0.77/0.97 (D-E:1) , WB=0.37/0.97 (B-D:1) , SSI=0.64/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.78 (A) (INPUT = 0.90 )
JSI METAL= 0.33 (E) (INPUT = 1.00 )



**READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.**

KOTT

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | DRWG NO. |
|---|---|---|---|---|---|
| NE0723-126 | G06 | 1 | 1 | TRUSS DESC. | |

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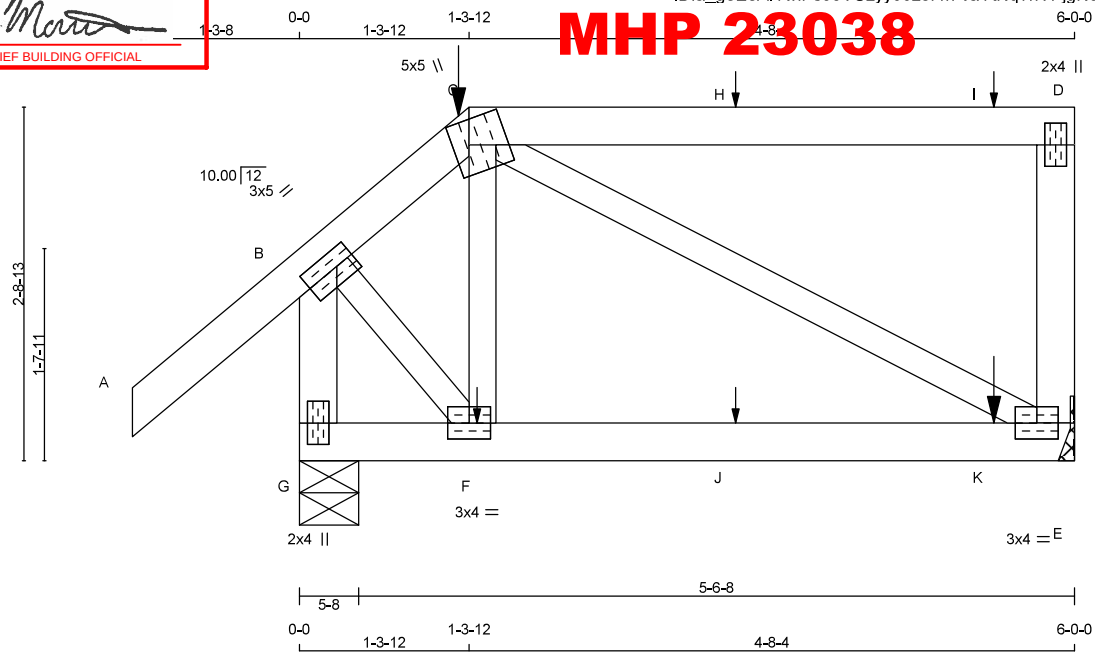


TOTAL WEIGHT = 27 lb [M]

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

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

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE | PLATES | W | LEN | Y | X |
|---|---|---|---|---|---|---|
| B | TMVW-t | MT20 | 3.0 | 5.0 | 1.50 | 1.75 |
| C | TTWW+m | MT20 | 5.0 | 5.0 | 2.25 | 1.50 |
| D | TMV+p | MT20 | 2.0 | 4.0 | | |
| E | BMVW1-t | MT20 | 3.0 | 4.0 | | |
| F | BMWW-t | MT20 | 3.0 | 4.0 | | |
| G | BMV1+p | MT20 | 2.0 | 4.0 | | |

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

**BEARINGS**

| JT | FACTORED GROSS REACTION VERT | HORZ | MAXIMUM FACTORED GROSS REACTION DOWN | HORZ | UPLIFT | INPUT BRG IN-SX | REQRD BRG IN-SX |
|---|---|---|---|---|---|---|---|
| E | 396 | 0 | 396 | 0 | 0 | MECHANICAL | |
| G | 600 | 0 | 600 | 0 | 0 | 5-8 | 1-8 |

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

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| E | 277 | 198 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 80 / 0 | 0 / 0 |
| G | 417 | 316 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 101 / 0 | 0 / 0 |

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

**BRACING**
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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. FR-TO | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD LC1 (PLF) FROM | TO | MAX CSI (LC) | MAX UNBRAC LENGTH | WEBS MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
|---|---|---|---|---|---|---|---|---|
| A- B | 0 / 53 | -119.4 | -119.4 | 0.18 (1) | 10.00 | F- C | -61 / 42 | 0.02 (4) |
| B- C | -263 / 0 | -119.4 | -119.4 | 0.17 (1) | 6.25 | C- E | -174 / 0 | 0.07 (1) |
| C- H | 0 / 0 | -119.4 | -119.4 | 0.49 (1) | 10.00 | B- F | 0 / 214 | 0.05 (1) |
| H- I | 0 / 0 | -119.4 | -119.4 | 0.49 (1) | 10.00 | | | |
| I- D | 0 / 0 | -119.4 | -119.4 | 0.49 (1) | 10.00 | | | |
| E- D | -280 / 0 | 0.0 | 0.0 | 0.04 (1) | 7.81 | | | |
| G- B | -609 / 0 | 0.0 | 0.0 | 0.07 (1) | 7.81 | | | |
| G- F | 0 / 0 | -18.2 | -18.2 | 0.09 (4) | 10.00 | | | |
| F- J | 0 / 155 | -18.2 | -18.2 | 0.11 (4) | 10.00 | | | |
| J- K | 0 / 155 | -18.2 | -18.2 | 0.11 (4) | 10.00 | | | |
| K- E | 0 / 155 | -18.2 | -18.2 | 0.11 (4) | 10.00 | | | |

SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC. | LC1 | MAX- | MAX+ | FACE | DIR. | TYPE | HEEL | CONN. |
|---|---|---|---|---|---|---|---|---|---|
| C | 1-3-12 | -3 | -3 | — | BACK | VERT | TOTAL | — | C1 |
| F | 1-4-8 | 1 | 1 | — | BACK | VERT | TOTAL | — | C1 |
| H | 3-4-8 | 1 | 1 | — | BACK | VERT | TOTAL | — | C1 |
| I | 5-4-8 | 1 | 1 | — | BACK | VERT | TOTAL | — | C1 |
| J | 3-4-8 | 1 | 1 | — | BACK | VERT | TOTAL | — | C1 |
| K | 5-4-8 | -1 | -1 | — | 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 | = | 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**

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

*** NON STANDARD GIRDER ***
ADDT'L 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

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 (0.01")

CSI: TC=0.49/0.97 (C-D:1) , BC=0.11/0.97 (E-F:4) , WB=0.07/0.97 (C-E:1) , SSI=0.24/1.00 (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) (PSI) MAX | MIN | SHEAR (PLI) MAX | MIN | SECTION (PLI) MAX | MIN |
|---|---|---|---|---|---|---|
| MT20 | 650 | 371 | 1747 | 788 | 1987 | 1873 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.52 (B) (INPUT = 0.90 )
JSI METAL= 0.13 (G) (INPUT = 1.00 )


**READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.**

KOTT

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | DRWG NO. |
|---|---|---|---|---|---|
| NE0723-126 | G07 | 1 | 1 | TRUSS DESC. | |

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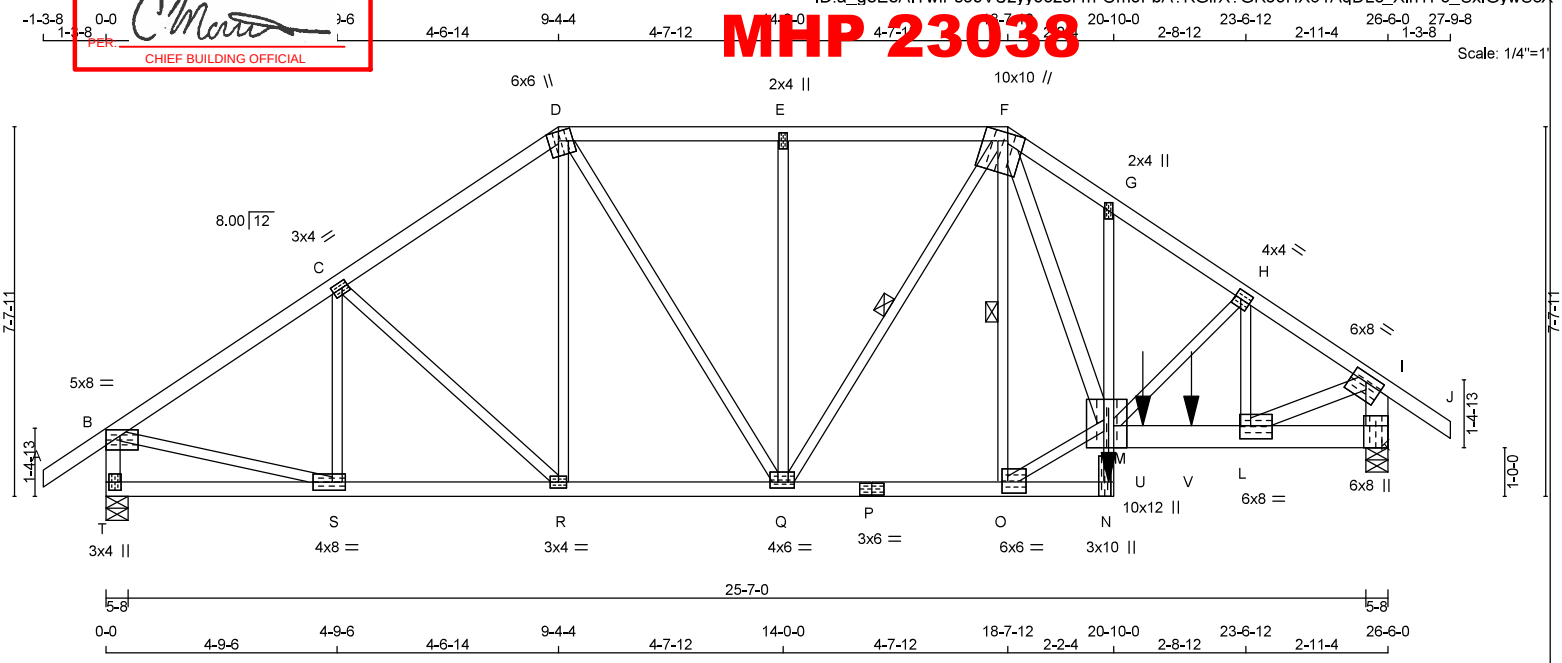


TOTAL WEIGHT = 139 lb [M]

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

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

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE | PLATES | W | LEN | Y | X |
|---|---|---|---|---|---|---|
| B | TMVW-p | MT20 | 5.0 | 8.0 | 1.50 | 3.50 |
| C | TMWW-t | MT20 | 3.0 | 4.0 | 1.50 | 1.50 |
| D | TTWW+m | MT20 | 6.0 | 6.0 | Edge | 2.50 |
| E | TMW+w | MT20 | 2.0 | 4.0 | | |
| F | TTWWW+m | MT20 | 10.0 | 10.0 | Edge | 4.00 |
| G | TMV+p | MT20 | 2.0 | 4.0 | | |
| H | TMWW-t | MT20 | 4.0 | 4.0 | 2.00 | 1.50 |
| I | TMVW-t | MT20 | 6.0 | 8.0 | 2.00 | 3.75 |
| K | BMV1+t | MT20 | 6.0 | 8.0 | Edge | 0.50 |
| L | BMWW-t | MT20 | 6.0 | 8.0 | 3.25 | 2.75 |
| M | BVMWWW+t | MT20 | 10.0 | 12.0 | Edge | 3.25 |
| N | BMV+p | MT20 | 3.0 | 10.0 | Edge | 1.25 |
| O | BMWW-t | MT20 | 6.0 | 6.0 | 2.75 | 1.50 |
| P | BS-t | MT20 | 3.0 | 6.0 | | |
| Q | BMWWW-t | MT20 | 4.0 | 6.0 | 1.50 | 2.00 |
| R | BMWW-t | MT20 | 3.0 | 4.0 | | |
| S | BMWW-t | MT20 | 4.0 | 8.0 | 2.00 | 3.25 |
| T | BMV1+p | MT20 | 3.0 | 4.0 | 2.00 | 0.75 |

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


**READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.**

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

| | FACTORED GROSS REACTION | | MAXIMUM FACTORED GROSS REACTION | | | INPUT BRG | REQRD BRG |
|---|---|---|---|---|---|---|---|
| JT | VERT | HORZ | DOWN | HORZ | UPLIFT | IN-SX | IN-SX |
| T | 2700 | 0 | 2700 | 0 | 0 | 5-8 | 5-4 |
| K | 4761 | 0 | 4761 | 0 | 0 | 5-8 | 5-8 |

**UNFACTORED REACTIONS**

| | 1ST LCASE | MAX./MIN. COMPONENT REACTIONS | | | | | |
|---|---|---|---|---|---|---|---|
| JT | COMBINED | SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
| T | 1883 | 1384 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 499 / 0 | 0 / 0 |
| K | 3320 | 2445 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 874 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) T, K
BEARING SIZE FACTOR = 1.15 AT JNT(S) K ( BASED ON SUPPORT DEPTH = 1-8 )

**BRACING**
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.35 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.

1 - 1x4 LATERAL BRACE(S) AT 1/ 2 LENGTH OF F-Q, F-O. DBS = 20-0-0 . CBF = 180 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE (PER BRACE). FASTEN LATERAL BRACE(S) USING (0.122"X3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

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. FR-TO | MAX. FACTORED FORCE (LBS) | | FACTORED VERT. LOAD LC1 FROM | TO | MAX CSI (LC) | MAX. UNBRAC LENGTH | MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
| A- B | 0 / 45 | | -119.4 | -119.4 | 0.18 (1) | 10.00 | S- C | -493 / 0 | 0.16 (1) |
| B- C | -3024 / 0 | | -119.4 | -119.4 | 0.73 (1) | 3.19 | C- R | -173 / 0 | 0.13 (1) |
| C- D | -2946 / 0 | | -119.4 | -119.4 | 0.70 (1) | 3.23 | R- D | 0 / 220 | 0.05 (1) |
| D- E | -3035 / 0 | | -119.4 | -119.4 | 0.66 (1) | 3.19 | D- Q | 0 / 1149 | 0.28 (1) |
| E- F | -3035 / 0 | | -119.4 | -119.4 | 0.66 (1) | 3.19 | Q- E | -665 / 0 | 0.72 (1) |
| F- G | -5683 / 0 | | -119.4 | -119.4 | 0.55 (1) | 2.39 | Q- F | -306 / 0 | 0.16 (1) |
| G- H | -5720 / 0 | | -119.4 | -119.4 | 0.60 (1) | 2.35 | O- F | -1438 / 0 | 0.55 (1) |
| H- I | -5287 / 0 | | -119.4 | -119.4 | 0.53 (1) | 2.56 | O- M | 0 / 3535 | 0.87 (1) |
| I- J | 0 / 45 | | -119.4 | -119.4 | 0.18 (1) | 10.00 | F- M | 0 / 4751 | 0.84 (1) |
| T- B | -2659 / 0 | | 0.0 | 0.0 | 0.30 (1) | 5.13 | M- H | 0 / 470 | 0.12 (1) |
| K- I | -4752 / 0 | | 0.0 | 0.0 | 0.34 (1) | 4.82 | L- H | -971 / 0 | 0.20 (1) |
| | | | | | | | B- S | 0 / 2610 | 0.65 (1) |
| T- S | 0 / 0 | | -18.2 | -18.2 | 0.09 (4) | 10.00 | L- I | 0 / 4661 | 0.82 (1) |
| S- R | 0 / 2545 | | -18.2 | -18.2 | 0.52 (1) | 10.00 | | | |
| R- Q | 0 / 2420 | | -18.2 | -18.2 | 0.49 (1) | 10.00 | | | |
| Q- P | 0 / 3199 | | -18.2 | -18.2 | 0.71 (1) | 10.00 | | | |
| P- O | 0 / 3199 | | -18.2 | -18.2 | 0.71 (1) | 10.00 | | | |
| O- N | 0 / 52 | | -18.2 | -18.2 | 0.16 (1) | 10.00 | | | |
| N- M | 0 / 2496 | | 0.0 | 0.0 | 0.78 (1) | 10.00 | | | |
| M- G | -252 / 0 | | 0.0 | 0.0 | 0.20 (1) | 7.81 | | | |
| M- U | 0 / 4413 | | -18.2 | -18.2 | 0.93 (1) | 10.00 | | | |
| U- V | 0 / 4413 | | -18.2 | -18.2 | 0.93 (1) | 10.00 | | | |
| V- L | 0 / 4413 | | -18.2 | -18.2 | 0.93 (1) | 10.00 | | | |
| L- K | 0 / 0 | | -18.2 | -18.2 | 0.04 (1) | 10.00 | | | |

SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC. | LC1 | MAX- | MAX+ | FACE | DIR. | TYPE | HEEL | CONN. |
|---|---|---|---|---|---|---|---|---|---|
| N | 20-8-12 | -1758 | -1758 | — | BACK | VERT | TOTAL | — | C1 |
| U | 21-5-4 | -276 | -276 | — | BACK | VERT | TOTAL | — | C1 |
| V | 22-5-4 | -395 | -395 | — | 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 | = | 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**

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

*** NON STANDARD GIRDER ***
ADDT'L 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 (0.88")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.15")
ALLOWABLE DEFL.(TL)= L/360 (0.88")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.25")

CSI: TC=0.73/0.97 (B-C:1) , BC=0.93/0.97 (L-M:1) , WB=0.87/0.97 (M-O:1) , SSI=0.35/1.00 (L-M:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE LEFT HEEL ONLY

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

NAIL VALUES

| PLATE | GRIP(DRY) (PSI) | | SHEAR (PLI) | | SECTION (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= 0.89 (S) (INPUT = 0.90 )
JSI METAL= 0.98 (I) (INPUT = 1.00 )

KOTT

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | DRWG NO. |
|---|---|---|---|---|---|
| NE0723-126 | G08 | 1 | 2 | TRUSS DESC. | |

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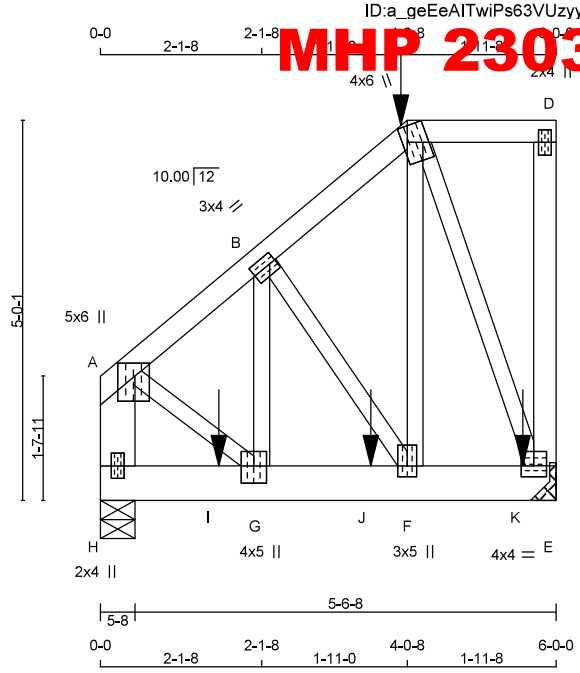


Scale = 1:30.3

TOTAL WEIGHT = 2 X 40 = 80 lb [M]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| A - C | 2x4 | DRY | No.2 | SPF |
| C - D | 2x4 | DRY | No.2 | SPF |
| E - D | 2x4 | DRY | No.2 | SPF |
| H - A | 2x6 | DRY | No.2 | SPF |
| H - E | 2x6 | DRY | No.2 | SPF |
| ALL WEBS EXCEPT | 2x3 | DRY | No.2 | SPF |

DRY: SEASONED LUMBER.

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

| CHORDS #ROWS | SURFACE SPACING (IN) | | LOAD(PLF) |
|---|---|---|---|
| TOP CHORDS : (0.122"X3") SPIRAL NAILS | | | |
| A-C | 1 | 12 | SIDE(0.0) |
| C-D | 1 | 12 | SIDE(0.0) |
| D-E | 1 | 12 | TOP |
| H-A | 2 | 12 | TOP |
| BOTTOM CHORDS : (0.122"X3") SPIRAL NAILS | | | |
| H-E | 2 | 12 | SIDE(0.0) |
| WEBS : (0.122"X3") SPIRAL NAILS | | | |
| 2x3 | 1 | 6 | |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

**PLATES (table is in inches)**

| JT | TYPE | PLATES | W | LEN | Y | X |
|---|---|---|---|---|---|---|
| A | TMVW+p | MT20 | 5.0 | 6.0 | 2.00 | 2.25 |
| B | TMWW-t | MT20 | 3.0 | 4.0 | 1.50 | 1.00 |
| C | TTWW+m | MT20 | 4.0 | 6.0 | 2.50 | 0.75 |


**READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.**

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

| JT | FACTORED GROSS REACTION VERT | HORZ | MAXIMUM FACTORED GROSS REACTION DOWN | HORZ | UPLIFT | INPUT BRG IN-SX | REQRD BRG IN-SX |
|---|---|---|---|---|---|---|---|
| E | 3906 | 0 | 3906 | 0 | 0 | MECHANICAL | |
| H | 2747 | 0 | 2747 | 0 | 0 | 5-8 | 1-8 |

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT E. MINIMUM BEARING LENGTH AT JOINT E = 2-2.

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| E | 2724 | 2004 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 720 / 0 | 0 / 0 |
| H | 1916 | 1407 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 509 / 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 = 6.02 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

| CHORDS MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | VERT. LOAD (PLF) FROM | TO | LC | MAX CSI (LC) | WEBS MAX. UNBRAC LENGTH | MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
|---|---|---|---|---|---|---|---|---|---|
| A-B | -2089 / 0 | -119.4 | -119.4 | 0.07 (1) | 6.02 | G-B | 0 / 1229 | 0.15 (1) | |
| B-C | -1262 / 0 | -119.4 | -119.4 | 0.05 (1) | 6.25 | B-F | -1141 / 0 | 0.14 (1) | |
| C-D | 0 / 0 | -119.4 | -119.4 | 0.04 (1) | 10.00 | F-C | 0 / 2588 | 0.32 (1) | |
| E-D | -117 / 0 | 0.0 | 0.0 | 0.02 (1) | 7.81 | C-E | -2618 / 0 | 0.52 (1) | |
| H-A | -2386 / 0 | 0.0 | 0.0 | 0.09 (1) | 7.81 | A-G | 0 / 1849 | 0.23 (1) | |
| H-I | 0 / 0 | -18.2 | -18.2 | 0.20 (1) | 10.00 | | | | |
| I-G | 0 / 0 | -18.2 | -18.2 | 0.20 (1) | 10.00 | | | | |
| G-J | 0 / 1604 | -18.2 | -18.2 | 0.34 (1) | 10.00 | | | | |
| J-F | 0 / 1604 | -18.2 | -18.2 | 0.34 (1) | 10.00 | | | | |
| F-K | 0 / 1024 | -18.2 | -18.2 | 0.29 (1) | 10.00 | | | | |
| K-E | 0 / 1024 | -18.2 | -18.2 | 0.29 (1) | 10.00 | | | | |

SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC. | LC1 | MAX- | MAX+ | FACE | DIR. | TYPE | HEEL | CONN. |
|---|---|---|---|---|---|---|---|---|---|
| C | 4-0-8 | -278 | -278 | — | BACK | VERT | TOTAL | — | C1 |
| I | 1-6-12 | -1260 | -1260 | — | FRONT | VERT | TOTAL | — | C1 |
| J | 3-6-12 | -1260 | -1260 | — | FRONT | VERT | TOTAL | — | C1 |
| K | 5-6-12 | -1264 | -1264 | — | FRONT | 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 | = | 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**

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

*** NON STANDARD GIRDER ***
ADDT'L 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 (0.20")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.03")

CSI: TC=0.09/0.97 (A-H:1) , BC=0.34/0.97 (F-G:1) , WB=0.52/0.97 (C-E:1) , SSI=0.49/1.00 (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 RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (F) (INPUT = 0.90 )
JSI METAL= 0.36 (G) (INPUT = 1.00 )

CONTINUED ON PAGE 2

KOTT

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | DRWG NO. |
|---|---|---|---|---|---|
| NE0723-126 | G08 | 1 | 2 | TRUSS DESC. | |





**MHP 23038**

**PLATES (table is in in)**

| JT | TYPE | PLATES | W | L | ENG | X |
|---|---|---|---|---|---|---|
| D | TMV+p | MT20 | 2.0 | 4.0 | | |
| E | BMVW1-t | MT20 | 4.0 | 4.0 | 1.75 | 2.00 |
| F | BMWW+t | MT20 | 3.0 | 5.0 | 1.75 | 1.50 |
| G | BMWW+t | MT20 | 4.0 | 5.0 | 2.75 | 2.00 |
| H | BMV1+p | MT20 | 2.0 | 4.0 | | |

LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
PROVINCE OF ONTARIO
Jul 19, 2023

**READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.**

KOTT

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | DRWG NO. |
|---|---|---|---|---|---|
| NE0723-126 | G09 | 1 | 1 | TRUSS DESC. | |

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MHP 23038

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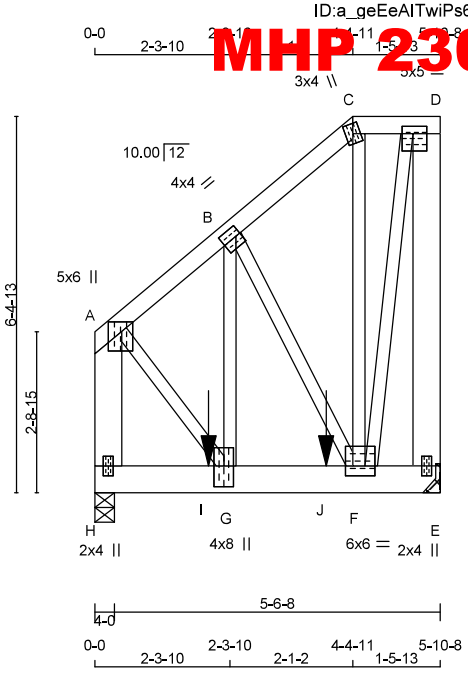


TOTAL WEIGHT = 52 lb [M]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| A - C | 2x4 | DRY | No.2 | SPF |
| C - D | 2x4 | DRY | No.2 | SPF |
| E - D | 2x6 | DRY | No.2 | SPF |
| H - A | 2x6 | DRY | No.2 | SPF |
| H - E | 2x6 | DRY | No.2 | SPF |
| ALL WEBS EXCEPT | 2x3 | DRY | No.2 | SPF |

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE | PLATES | W | LEN | Y | X |
|---|---|---|---|---|---|---|
| A | TMVW+p | MT20 | 5.0 | 6.0 | 2.00 | 2.25 |
| B | TMWW-t | MT20 | 4.0 | 4.0 | 2.00 | 1.00 |
| C | TTW+m | MT20 | 3.0 | 4.0 | | |
| D | TMVW-t | MT20 | 5.0 | 5.0 | 1.50 | 2.25 |
| E | BMV1+p | MT20 | 2.0 | 4.0 | | |
| F | BMWWW-t | MT20 | 6.0 | 6.0 | 2.00 | 1.50 |
| G | BMWW+t | MT20 | 4.0 | 8.0 | 4.25 | 2.00 |
| H | BMV1+p | MT20 | 2.0 | 4.0 | | |

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

**BEARINGS**

| JT | FACTORED GROSS REACTION VERT | HORZ | MAXIMUM FACTORED GROSS REACTION DOWN | HORZ | UPLIFT | INPUT BRG IN-SX | REQRD BRG IN-SX |
|---|---|---|---|---|---|---|---|
| E | 1789 | 0 | 1789 | 0 | 0 | MECHANICAL | |
| H | 1789 | 0 | 1789 | 0 | 0 | 4-0 | 1-15 |

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT E. MINIMUM BEARING LENGTH AT JOINT E = 1-15.

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| E | 1248 | 914 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 335 / 0 | 0 / 0 |
| H | 1248 | 914 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 334 / 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 = 5.96 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

| CHORDS MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD LC1 (PLF) FROM | TO | MAX CSI (LC) | WEBS MAX. UNBRAC LENGTH | MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
|---|---|---|---|---|---|---|---|---|
| A- B | -1057 / 0 | -119.4 | -119.4 | 0.10 (1) | 5.96 | G- B | 0 / 904 | 0.22 (1) |
| B- C | -517 / 0 | -119.4 | -119.4 | 0.08 (1) | 6.25 | B- F | -959 / 0 | 0.36 (1) |
| C- D | -385 / 0 | -119.4 | -119.4 | 0.05 (1) | 6.25 | F- C | 0 / 129 | 0.03 (1) |
| E- D | -1765 / 0 | 0.0 | 0.0 | 0.87 (1) | 7.37 | F- D | 0 / 1726 | 0.43 (1) |
| H- A | -1633 / 0 | 0.0 | 0.0 | 0.16 (1) | 7.58 | A- G | 0 / 1171 | 0.29 (1) |
| H- I | 0 / 0 | -18.2 | -18.2 | 0.20 (1) | 10.00 | | | |
| I- G | 0 / 0 | -18.2 | -18.2 | 0.20 (1) | 10.00 | | | |
| G- J | 0 / 824 | -18.2 | -18.2 | 0.51 (1) | 10.00 | | | |
| J- F | 0 / 824 | -18.2 | -18.2 | 0.51 (1) | 10.00 | | | |
| F- E | 0 / 0 | -18.2 | -18.2 | 0.01 (1) | 10.00 | | | |

SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC. | LC1 | MAX- | MAX+ | FACE | DIR. | TYPE | HEEL | CONN. |
|---|---|---|---|---|---|---|---|---|---|
| I | 1-11-4 | -966 | -966 | — | FRONT | VERT | TOTAL | — | C1 |
| J | 3-11-4 | -966 | -966 | — | FRONT | 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 | = | 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**

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

*** NON STANDARD GIRDER ***
ADDT'L 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 (0.20")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.04")

CSI: TC=0.87/0.97 (D-E:1) , BC=0.51/0.97 (F-G:1) , WB=0.43/0.97 (D-F:1) , SSI=0.84/1.00 (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 RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (E) (INPUT = 0.90 )
JSI METAL= 0.37 (D) (INPUT = 1.00 )


**READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.**

KOTT

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | DRWG NO. |
|---|---|---|---|---|---|
| NE0723-126 | G10 | 1 | 1 | TRUSS DESC. | |

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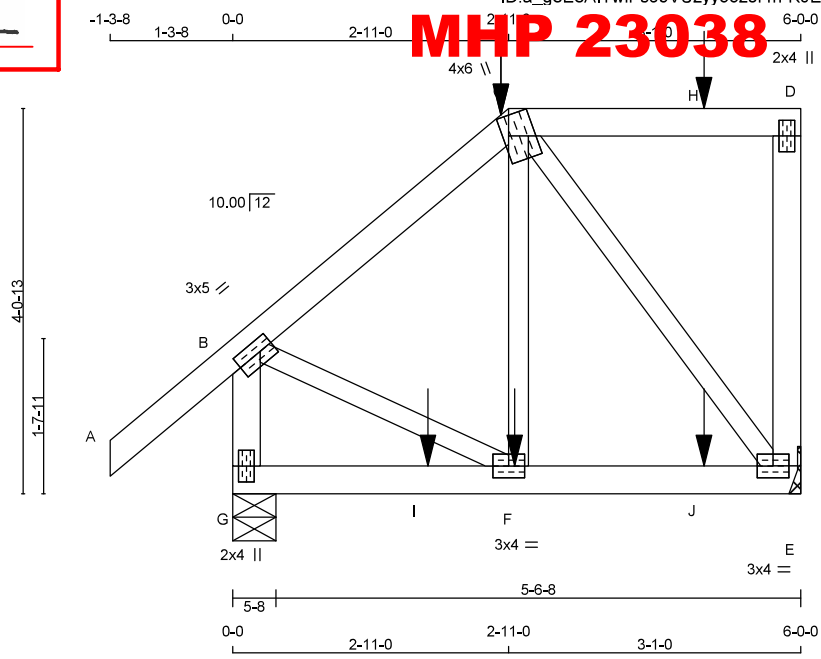


TOTAL WEIGHT = 31 lb [M]

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

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

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE | PLATES | W | LEN | Y | X |
|---|---|---|---|---|---|---|
| B | TMVW-t | MT20 | 3.0 | 5.0 | 1.50 | 1.75 |
| C | TTWW+m | MT20 | 4.0 | 6.0 | 2.50 | 0.75 |
| D | TMV+p | MT20 | 2.0 | 4.0 | | |
| E | BMVW1-t | MT20 | 3.0 | 4.0 | | |
| F | BMWW-t | MT20 | 3.0 | 4.0 | | |
| G | BMV1+p | MT20 | 2.0 | 4.0 | | |

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

**BEARINGS**

| JT | FACTORED GROSS REACTION VERT | HORZ | MAXIMUM FACTORED GROSS REACTION DOWN | HORZ | UPLIFT | INPUT BRG IN-SX | REQRD BRG IN-SX |
|---|---|---|---|---|---|---|---|
| E | 584 | 0 | 584 | 0 | 0 | MECHANICAL | |
| G | 710 | 0 | 710 | 0 | 0 | 5-8 | 1-8 |

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

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| E | 409 | 290 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 119 / 0 | 0 / 0 |
| G | 495 | 366 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 129 / 0 | 0 / 0 |

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

**BRACING**
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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. FR-TO | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) FROM | TO | LC1 MAX CSI (LC) | WEBS MAX. UNBRAC LENGTH | MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
|---|---|---|---|---|---|---|---|---|
| A- B | 0 / 53 | -119.4 | -119.4 | 0.18 (1) | 10.00 | F- C | -27 / 73 | 0.03 (4) |
| B- C | -355 / 0 | -119.4 | -119.4 | 0.19 (1) | 6.25 | C- E | -427 / 0 | 0.16 (1) |
| C- H | 0 / 0 | -119.4 | -119.4 | 0.26 (1) | 10.00 | B- F | 0 / 296 | 0.07 (1) |
| H- D | 0 / 0 | -119.4 | -119.4 | 0.26 (1) | 10.00 | | | |
| E- D | -224 / 0 | 0.0 | 0.0 | 0.06 (1) | 7.81 | | | |
| G- B | -685 / 0 | 0.0 | 0.0 | 0.08 (1) | 7.81 | | | |
| G- I | 0 / 0 | -18.2 | -18.2 | 0.06 (4) | 10.00 | | | |
| I- F | 0 / 0 | -18.2 | -18.2 | 0.06 (4) | 10.00 | | | |
| F- J | 0 / 271 | -18.2 | -18.2 | 0.09 (4) | 10.00 | | | |
| J- E | 0 / 271 | -18.2 | -18.2 | 0.09 (4) | 10.00 | | | |

SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC. | LC1 | MAX- | MAX+ | FACE | DIR. | TYPE | HEEL | CONN. |
|---|---|---|---|---|---|---|---|---|---|
| C | 2-11-0 | -143 | -143 | — | BACK | VERT | TOTAL | — | C1 |
| F | 2-11-12 | -11 | -11 | — | BACK | VERT | TOTAL | — | C1 |
| H | 4-11-12 | -41 | -41 | — | BACK | VERT | TOTAL | — | C1 |
| I | 2-0-12 | -8 | -8 | — | BACK | VERT | TOTAL | — | C1 |
| J | 4-11-12 | -11 | -11 | — | 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 | = | 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**

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

*** NON STANDARD GIRDER ***
ADDT'L 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 (0.20")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.26/0.97 (C-D:1) , BC=0.09/0.97 (E-F:4) , WB=0.16/0.97 (C-E:1) , SSI=0.19/1.00 (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) (PSI) MAX | MIN | SHEAR (PLI) MAX | MIN | SECTION (PLI) MAX | MIN |
|---|---|---|---|---|---|---|
| MT20 | 650 | 371 | 1747 | 788 | 1987 | 1873 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.58 (B) (INPUT = 0.90 )
JSI METAL= 0.16 (B) (INPUT = 1.00 )



**READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.**

KOTT

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | DRWG NO. |
|---|---|---|---|---|---|
| NE0723-126 | GE01 | 1 | 1 | TRUSS DESC. | |





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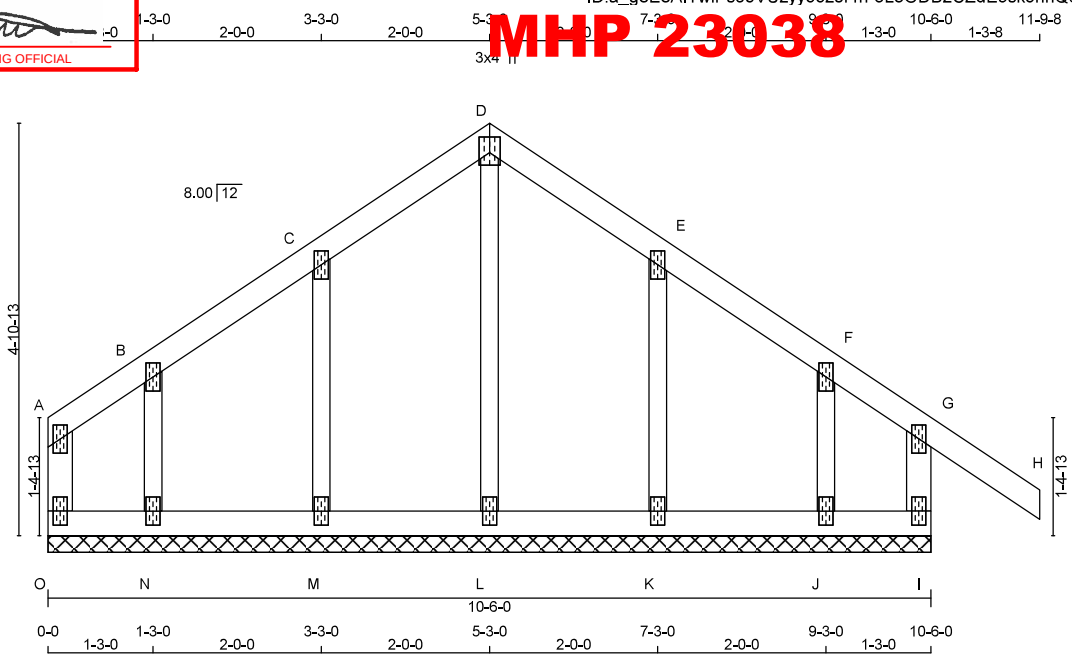


TOTAL WEIGHT = 42 lb [M]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| O - A | 2x4 | DRY | No.2 | SPF |
| A - D | 2x4 | DRY | No.2 | SPF |
| D - H | 2x4 | DRY | No.2 | SPF |
| I - G | 2x4 | DRY | No.2 | SPF |
| O - I | 2x4 | DRY | No.2 | SPF |
| ALL WEBS | 2x3 | DRY | No.2 | SPF |
| ALL GABLE WEBS | 2x3 | DRY | No.2 | SPF |

DRY: SEASONED LUMBER.

GABLE STUDS SPACED AT 2-0-0 OC.

**PLATES (table is in inches)**

| JT | TYPE | PLATES | W | LEN | Y | X |
|---|---|---|---|---|---|---|
| A | TMV+p | MT20 | 2.0 | 4.0 | | |
| B, C, E, F | | | | | | |
| B | TMW+w | MT20 | 2.0 | 4.0 | | |
| D | TTW+p | MT20 | 3.0 | 4.0 | 2.25 | 1.50 |
| G | TMV+p | MT20 | 2.0 | 4.0 | | |
| I | BMV1+p | MT20 | 2.0 | 4.0 | | |
| J, K, L, M, N | | | | | | |
| J | BMW1+w | MT20 | 2.0 | 4.0 | | |
| O | BMV1+p | MT20 | 2.0 | 4.0 | | |

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

**BEARINGS**

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

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

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

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

| CHORDS MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) FROM | TO | LC1 MAX CSI (LC) | MAX. UNBRAC LENGTH | WEBS MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
|---|---|---|---|---|---|---|---|---|
| O- A | -42 / 0 | 0.0 | 0.0 | 0.01 (1) | 7.81 | L- D | -266 / 0 | 0.09 (1) |
| A- B | 0 / 18 | -119.4 | -119.4 | 0.04 (1) | 10.00 | M- C | -249 / 0 | 0.05 (1) |
| B- C | 0 / 19 | -119.4 | -119.4 | 0.06 (1) | 10.00 | N- B | -202 / 0 | 0.03 (1) |
| C- D | 0 / 21 | -119.4 | -119.4 | 0.06 (1) | 10.00 | K- E | -259 / 0 | 0.05 (1) |
| D- E | 0 / 20 | -119.4 | -119.4 | 0.07 (1) | 10.00 | J- F | -112 / 0 | 0.02 (1) |
| E- F | 0 / 23 | -119.4 | -119.4 | 0.07 (1) | 10.00 | | | |
| F- G | -24 / 0 | -119.4 | -119.4 | 0.12 (1) | 6.25 | | | |
| G- H | 0 / 45 | -119.4 | -119.4 | 0.16 (1) | 10.00 | | | |
| I- G | -287 / 0 | 0.0 | 0.0 | 0.04 (1) | 7.81 | | | |
| O- N | -3 / 0 | -18.2 | -18.2 | 0.01 (4) | 10.00 | | | |
| N- M | -12 / 0 | -18.2 | -18.2 | 0.01 (4) | 6.25 | | | |
| M- L | -18 / 0 | -18.2 | -18.2 | 0.01 (4) | 6.25 | | | |
| L- K | -18 / 0 | -18.2 | -18.2 | 0.02 (4) | 6.25 | | | |
| K- J | -12 / 0 | -18.2 | -18.2 | 0.02 (4) | 6.25 | | | |
| J- I | -7 / 0 | -18.2 | -18.2 | 0.03 (1) | 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 = 24.0 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 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

CSI: TC=0.16/0.97 (G-H:1) , BC=0.03/0.97 (I-J:1) , WB=0.09/0.97 (D-L:1) , SSI=0.11/1.00 (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) (PSI) MAX | MIN | SHEAR (PLI) MAX | MIN | SECTION (PLI) MAX | MIN |
|---|---|---|---|---|---|---|
| MT20 | 650 | 371 | 1747 | 788 | 1987 | 1873 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.17 (G) (INPUT = 0.90 )
JSI METAL= 0.14 (G) (INPUT = 1.00 )


**READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.**

KOTT

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | DRWG NO. |
|---|---|---|---|---|---|
| NE0723-126 | GE02 | 1 | 1 | TRUSS DESC. | |





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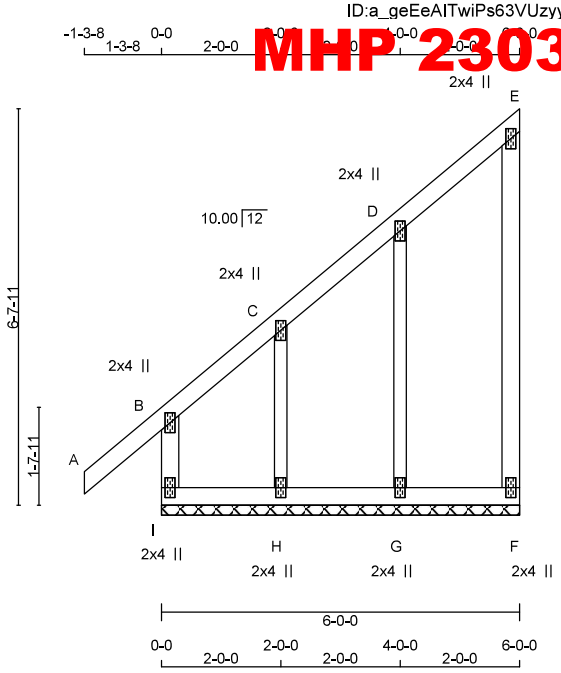


TOTAL WEIGHT = 32 lb [M]

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

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

DRY: SEASONED LUMBER.

GABLE STUDS SPACED AT 2-0-0 OC.

**PLATES (table is in inches)**

| JT | TYPE | PLATES | W | LEN | Y | X |
|---|---|---|---|---|---|---|
| B | TMV+p | MT20 | 2.0 | 4.0 | | |
| C | TMW+w | MT20 | 2.0 | 4.0 | | |
| D | TMW+w | MT20 | 2.0 | 4.0 | | |
| E | TMV+p | MT20 | 2.0 | 4.0 | | |
| F | BMV1+p | MT20 | 2.0 | 4.0 | | |
| G | BMW1+w | MT20 | 2.0 | 4.0 | | |
| H | BMW1+w | MT20 | 2.0 | 4.0 | | |
| I | BMV1+p | MT20 | 2.0 | 4.0 | | |

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

**BEARINGS**

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

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

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

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

| CHORDS MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) FROM | TO | LC1 MAX CSI (LC) | MAX. UNBRAC LENGTH | WEBS MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
|---|---|---|---|---|---|---|---|---|
| I- B | -332 / 0 | 0.0 | 0.0 | 0.05 (1) | 7.81 | G- D | -272 / 0 | 0.10 (1) |
| A- B | 0 / 53 | -119.4 | -119.4 | 0.16 (1) | 10.00 | H- C | -173 / 0 | 0.03 (1) |
| B- C | -44 / 0 | -119.4 | -119.4 | 0.14 (1) | 6.25 | | | |
| C- D | -1 / 0 | -119.4 | -119.4 | 0.07 (1) | 10.00 | | | |
| D- E | -15 / 0 | -119.4 | -119.4 | 0.07 (1) | 6.25 | | | |
| F- E | -105 / 0 | 0.0 | 0.0 | 0.03 (1) | 7.81 | | | |
| I- H | 0 / 14 | -18.2 | -18.2 | 0.05 (1) | 10.00 | | | |
| H- G | 0 / 8 | -18.2 | -18.2 | 0.02 (4) | 10.00 | | | |
| G- F | 0 / 3 | -18.2 | -18.2 | 0.02 (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 = 24.0 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 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

CSI: TC=0.16/0.97 (A-B:1) , BC=0.05/0.97 (H-I:1) , WB=0.10/0.97 (D-G:1) , SSI=0.10/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

| PLATE | GRIP(DRY) (PSI) MAX | MIN | SHEAR (PLI) MAX | MIN | SECTION (PLI) 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= 0.19 (B) (INPUT = 1.00 )


**READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.**

KOTT

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | DRWG NO. |
|---|---|---|---|---|---|
| NE0723-126 | GE03 | 1 | 1 | TRUSS DESC. | |



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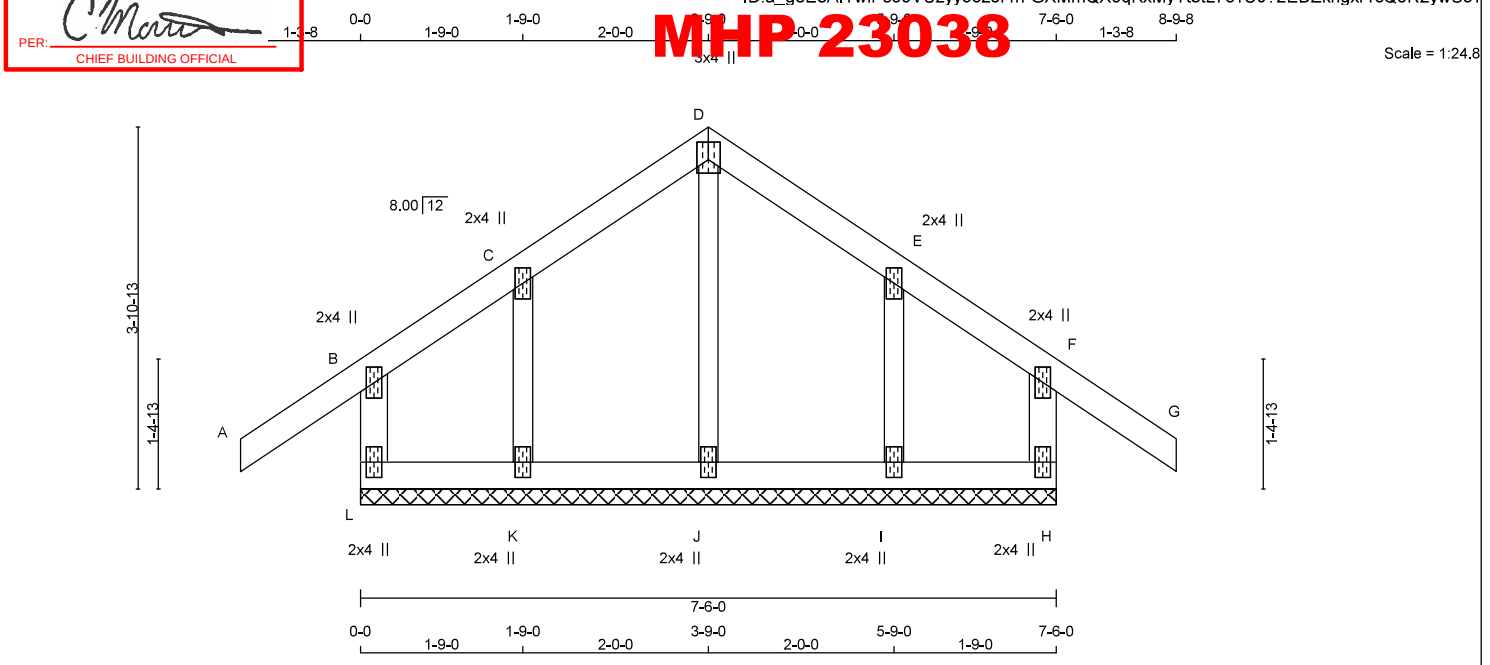


TOTAL WEIGHT = 31 lb
[M]

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

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

DRY: SEASONED LUMBER.

GABLE STUDS SPACED AT 2-0-0 OC.

**PLATES (table is in inches)**

| JT | TYPE | PLATES | W | LEN | Y | X |
|---|---|---|---|---|---|---|
| B | TMV+p | MT20 | 2.0 | 4.0 | | |
| C | TMW+w | MT20 | 2.0 | 4.0 | | |
| D | TTW+p | MT20 | 3.0 | 4.0 | 2.25 | 1.50 |
| E | TMW+w | MT20 | 2.0 | 4.0 | | |
| F | TMV+p | MT20 | 2.0 | 4.0 | | |
| H | BMV1+p | MT20 | 2.0 | 4.0 | | |
| I, J, K | | | | | | |
| I | BMW1+w | MT20 | 2.0 | 4.0 | | |
| L | BMV1+p | MT20 | 2.0 | 4.0 | | |

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

**BEARINGS**

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

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

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

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

| CHORDS MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) FROM | TO | LC1 MAX CSI (LC) | MAX. UNBRAC LENGTH | WEBS MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
|---|---|---|---|---|---|---|---|---|
| L- B | -262 / 0 | 0.0 | 0.0 | 0.06 (1) | 7.81 | J- D | -326 / 0 | 0.08 (1) |
| A- B | 0 / 45 | -119.4 | -119.4 | 0.16 (1) | 10.00 | K- C | -187 / 0 | 0.03 (1) |
| B- C | 0 / 33 | -119.4 | -119.4 | 0.10 (1) | 10.00 | I- E | -187 / 0 | 0.03 (1) |
| C- D | 0 / 59 | -119.4 | -119.4 | 0.07 (1) | 10.00 | | | |
| D- E | 0 / 59 | -119.4 | -119.4 | 0.07 (1) | 10.00 | | | |
| E- F | 0 / 33 | -119.4 | -119.4 | 0.10 (1) | 10.00 | | | |
| F- G | 0 / 45 | -119.4 | -119.4 | 0.16 (1) | 10.00 | | | |
| H- F | -262 / 0 | 0.0 | 0.0 | 0.06 (1) | 7.81 | | | |
| L- K | -38 / 0 | -18.2 | -18.2 | 0.01 (4) | 6.25 | | | |
| K- J | -45 / 0 | -18.2 | -18.2 | 0.01 (4) | 6.25 | | | |
| J- I | -45 / 0 | -18.2 | -18.2 | 0.01 (4) | 6.25 | | | |
| I- H | -38 / 0 | -18.2 | -18.2 | 0.01 (4) | 6.25 | | | |

**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 = 24.0 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 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

CSI: TC=0.16/0.97 (F-G:1) , BC=0.01/0.97 (I-J:4) , WB=0.08/0.97 (D-J:1) , SSI=0.11/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.21 (D) (INPUT = 0.90 )
JSI METAL= 0.11 (D) (INPUT = 1.00 )



**READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.**

KOTT

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | DRWG NO. |
|---|---|---|---|---|---|
| NE0723-126 | GES01 | 1 | 1 | TRUSS DESC. | |



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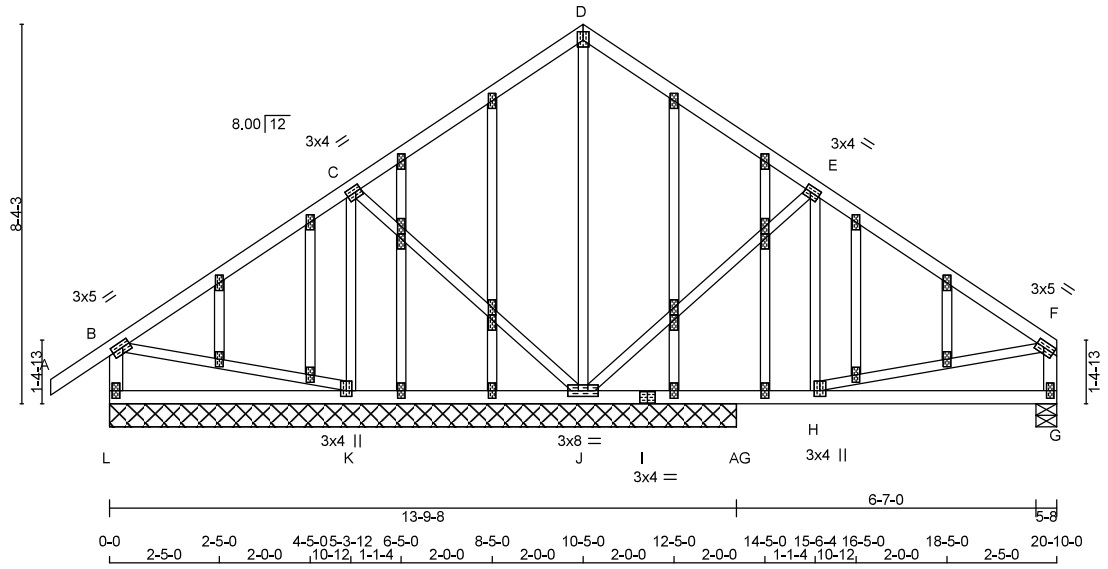


TOTAL WEIGHT = 116 lb [M]

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

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

DRY: SEASONED LUMBER.

GABLE STUDS SPACED AT 2-0-0 OC.

**PLATES (table is in inches)**

| JT | TYPE | PLATES | W | LEN | Y | X |
|---|---|---|---|---|---|---|
| B | TMVW-t | MT20 | 3.0 | 5.0 | 1.50 | 2.00 |
| C | TMWW-t | MT20 | 3.0 | 4.0 | 1.50 | 1.50 |
| D | TTW+p | MT20 | 3.0 | 4.0 | 2.25 | 1.50 |
| E | TMWW-t | MT20 | 3.0 | 4.0 | 1.50 | 1.50 |
| F | TMVW-t | MT20 | 3.0 | 5.0 | 1.50 | 2.00 |
| G | BMV1+p | MT20 | 2.0 | 4.0 | | |
| H | BMWW+t | MT20 | 3.0 | 4.0 | 1.50 | 1.50 |
| I | BS-t | MT20 | 3.0 | 4.0 | | |
| J | BMWWW1-t | MT20 | 3.0 | 8.0 | | |
| K | BMWW1+t | MT20 | 3.0 | 4.0 | 1.50 | 1.50 |
| L | BMV1+p | MT20 | 2.0 | 4.0 | | |
| M, P, Y, AB | | | | | | |
| M | NP+w | MT20 | 2.0 | 4.0 | 1.25 | 1.00 |
| M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, AB, AC, AD, AE, AF | | | | | | |
| M | NP+w | MT20 | 2.0 | 4.0 | | |

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

**BEARINGS**

| | FACTORED GROSS REACTION | | MAXIMUM FACTORED GROSS REACTION | | | INPUT BRG | REQRD BRG |
|---|---|---|---|---|---|---|---|
| JT | VERT | HORZ | DOWN | HORZ | UPLIFT | IN-SX | IN-SX |
| L | 521 | 0 | 521 | 0 | 0 | 13-9-8 ( 11-10-0 ) | |
| J | 1224 | 0 | 1224 | 0 | 0 | 13-9-8 ( 11-10-0 ) | |
| K | 600 | 0 | 600 | 0 | 0 | 13-9-8 ( 11-10-0 ) | |
| G | 633 | 0 | 633 | 0 | 0 | 5-8 | 1-8 |
| AG | 54 | 0 | 54 | 0 | 0 | 13-9-8 ( 11-10-0 ) | |

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

**UNFACTORED REACTIONS**

| | 1ST LCASE | MAX./MIN. COMPONENT REACTIONS | | | | | |
|---|---|---|---|---|---|---|---|
| JT | COMBINED | SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
| L | 360 | 285 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 74 / 0 | 0 / 0 |
| J | 854 | 626 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 228 / 0 | 0 / 0 |
| K | 422 | 289 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 133 / 0 | 0 / 0 |
| G | 442 | 324 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 117 / 0 | 0 / 0 |
| AG | 39 | 21 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 17 / 0 | 0 / 0 |

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

**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. FR-TO | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) FROM | TO | LC1 MAX CSI (LC) | MAX UNBRAC LENGTH | MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
| A- B | 0 / 45 | -119.4 | -119.4 | 0.16 (1) | 10.00 | J- D | -562 / 0 | 0.76 (1) |
| B- C | -65 / 0 | -119.4 | -119.4 | 0.55 (1) | 6.25 | J- E | -651 / 0 | 0.58 (1) |
| C- D | 0 / 56 | -119.4 | -119.4 | 0.56 (1) | 10.00 | H- E | -17 / 83 | 0.03 (4) |
| D- E | 0 / 56 | -119.4 | -119.4 | 0.56 (1) | 10.00 | C- J | -233 / 0 | 0.21 (1) |
| E- F | -438 / 0 | -119.4 | -119.4 | 0.57 (1) | 6.25 | K- C | -506 / 0 | 0.18 (1) |
| L- B | -483 / 0 | 0.0 | 0.0 | 0.05 (1) | 7.81 | B- K | 0 / 91 | 0.02 (1) |
| G- F | -589 / 0 | 0.0 | 0.0 | 0.06 (1) | 7.81 | H- F | 0 / 408 | 0.09 (1) |
| L- K | 0 / 0 | -18.2 | -18.2 | 0.13 (4) | 10.00 | | | |
| K- J | 0 / 90 | -18.2 | -18.2 | 0.13 (4) | 10.00 | | | |
| J- I | 0 / 400 | -18.2 | -18.2 | 0.11 (1) | 10.00 | | | |
| I-AG | 0 / 400 | -18.2 | -18.2 | 0.11 (1) | 10.00 | | | |
| AG- H | 0 / 400 | -18.2 | -18.2 | 0.13 (4) | 10.00 | | | |
| H- G | 0 / 0 | -18.2 | -18.2 | 0.10 (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 = 24.0 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 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 (0.23")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.23")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.04")

CSI: TC=0.57/0.97 (E-F:1) , BC=0.13/0.97 (J-K:4) , WB=0.76/0.97 (D-J:1) , SSI=0.26/1.00 (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) (PSI) | | SHEAR (PLI) | | SECTION (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= 0.79 (H) (INPUT = 0.90 )
JSI METAL= 0.23 (H) (INPUT = 1.00 )


Jul 19, 2023

**READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.**

KOTT

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | DRWG NO. |
|---|---|---|---|---|---|
| NE0723-126 | J01 | 9 | 1 | TRUSS DESC. | |

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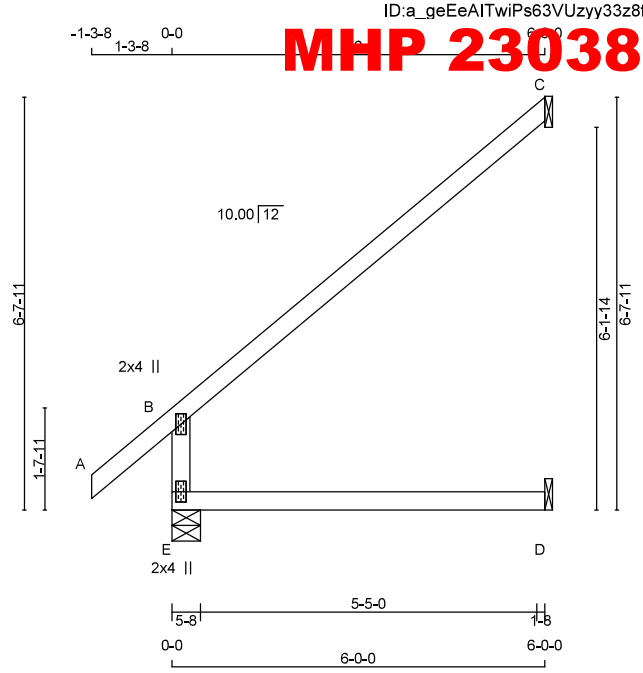


TOTAL WEIGHT = 9 X 19 = 174 lb [M]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| E - B | 2x4 | DRY | No.2 | SPF |
| A - C | 2x4 | DRY | No.2 | SPF |
| E - 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 | 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 | FACTORED GROSS REACTION VERT | HORZ | MAXIMUM FACTORED GROSS REACTION DOWN | HORZ | UPLIFT | INPUT BRG IN-SX | REQRD BRG IN-SX |
|---|---|---|---|---|---|---|---|
| E | 676 | 0 | 676 | 0 | 0 | 5-8 | 1-8 |
| C | 269 | 0 | 269 | 0 | 0 | 1-8 | 1-8 |
| D | 46 | 0 | 52 | 0 | 0 | 1-8 | 1-8 |

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

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS 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

**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. FR-TO | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD LC1 FROM | TO | MAX CSI (LC) | WEBS MAX. UNBRAC LENGTH | MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
|---|---|---|---|---|---|---|---|---|
| E- B | -613 / 0 | 0.0 | 0.0 | 0.12 (4) | 7.81 | | | |
| A- B | 0 / 53 | -119.4 | -119.4 | 0.16 (1) | 10.00 | | | |
| B- C | -57 / 0 | -119.4 | -119.4 | 0.74 (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 = 24.0 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 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=0.74/0.97 (B-C:1) , BC=0.14/0.97 (D-E:4) , WB=0.00/0.97 (n/a:0) , SSI=0.27/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.42 (B) (INPUT = 0.90 )
JSI METAL= 0.33 (B) (INPUT = 1.00 )



**READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.**

KOTT

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | DRWG NO. |
|---|---|---|---|---|---|
| NE0723-126 | J02 | 2 | 1 | TRUSS DESC. | |

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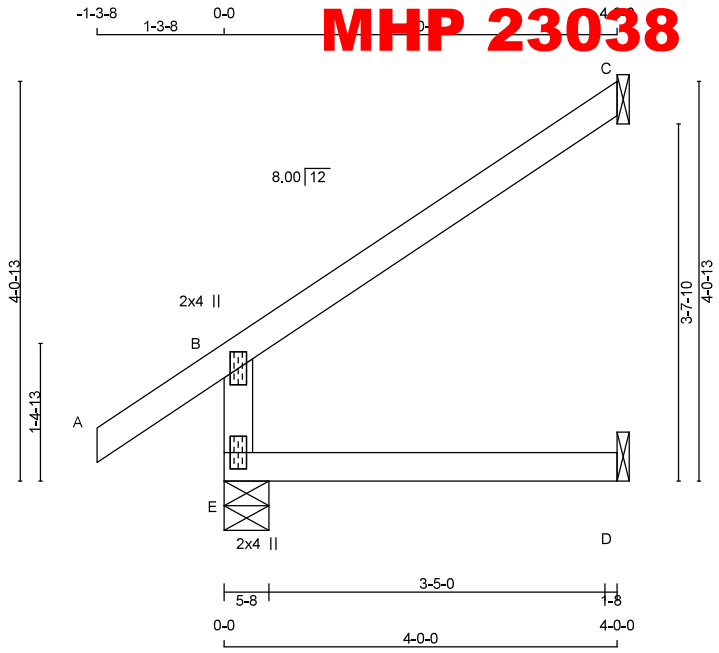


TOTAL WEIGHT = 2 X 13 = 26 lb [M]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| E - B | 2x4 | DRY | No.2 | SPF |
| A - C | 2x4 | DRY | No.2 | SPF |
| E - 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 | 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 | FACTORED GROSS REACTION VERT | HORZ | MAXIMUM FACTORED GROSS REACTION DOWN | HORZ | UPLIFT | INPUT BRG IN-SX | REQRD BRG IN-SX |
|---|---|---|---|---|---|---|---|
| E | 504 | 0 | 504 | 0 | 0 | 5-8 | 1-8 |
| C | 179 | 0 | 179 | 0 | 0 | 1-8 | 1-8 |
| D | 31 | 0 | 35 | 0 | 0 | 1-8 | 1-8 |

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

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| E | 349 | 270 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 80 / 0 | 0 / 0 |
| C | 123 | 105 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 18 / 0 | 0 / 0 |
| D | 25 | 0 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 25 / 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 = 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. FR-TO | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD LC1 FROM | TO | MAX CSI (LC) | WEBS MAX. UNBRAC LENGTH | MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
|---|---|---|---|---|---|---|---|---|
| E- B | -462 / 0 | 0.0 | 0.0 | 0.05 (4) | 7.81 | | | |
| A- B | 0 / 45 | -119.4 | -119.4 | 0.16 (1) | 10.00 | | | |
| B- C | -33 / 0 | -119.4 | -119.4 | 0.32 (1) | 6.25 | | | |
| E- D | 0 / 0 | -18.2 | -18.2 | 0.06 (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 = 24.0 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 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 (0.19")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.32/0.97 (B-C:1) , BC=0.06/0.97 (D-E:4) , WB=0.00/0.97 (n/a:0) , SSI=0.19/1.00 (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) (PSI) MAX | MIN | SHEAR (PLI) MAX | MIN | SECTION (PLI) MAX | MIN |
|---|---|---|---|---|---|---|
| MT20 | 650 | 371 | 1747 | 788 | 1987 | 1873 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.28 (B) (INPUT = 0.90 )
JSI METAL= 0.24 (B) (INPUT = 1.00 )



**READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.**

KOTT

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | DRWG NO. |
|---|---|---|---|---|---|
| NE0723-126 | J03 | 1 | 1 | TRUSS DESC. | |

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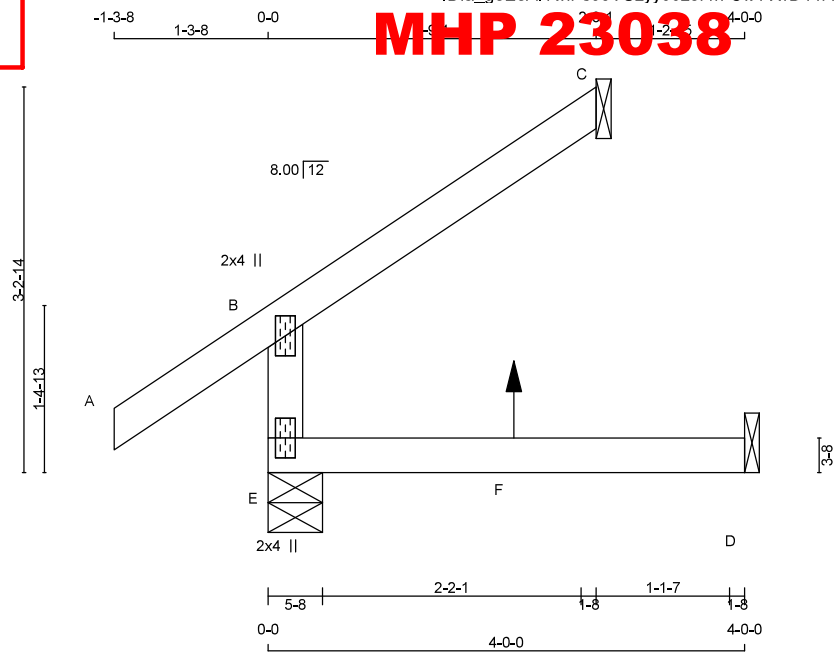


TOTAL WEIGHT = 11 lb [M]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| E - B | 2x4 | DRY | No.2 | SPF |
| A - C | 2x4 | DRY | No.2 | SPF |
| E - 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 | 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 | FACTORED GROSS REACTION VERT | HORZ | MAXIMUM FACTORED GROSS REACTION DOWN | HORZ | UPLIFT | INPUT BRG IN-SX | REQRD BRG IN-SX |
|---|---|---|---|---|---|---|---|
| E | 405 | 0 | 405 | 0 | 0 | 5-8 | 1-8 |
| C | 124 | 0 | 124 | 0 | 0 | 1-8 | 1-8 |
| D | 28 | 0 | 35 | 0 | 0 | 1-8 | 1-8 |

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

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| E | 282 | 212 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 70 / 0 | 0 / 0 |
| C | 85 | 72 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 12 / 0 | 0 / 0 |
| D | 23 | 0 / -2 | 0 / 0 | 0 / 0 | 0 / 0 | 25 / 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 MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD LC1 (PLF) FROM | TO | MAX CSI (LC) | WEBS MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) | UNBRAC LENGTH |
|---|---|---|---|---|---|---|---|---|
| E- B | -369 / 0 | 0.0 | 0.0 | 0.05 (4) | | | | 7.81 |
| A- B | 0 / 45 | -119.4 | -119.4 | 0.16 (1) | | | | 10.00 |
| B- C | -23 / 0 | -119.4 | -119.4 | 0.15 (1) | | | | 6.25 |
| E- F | 0 / 0 | -18.2 | -18.2 | 0.06 (4) | | | | 10.00 |
| F- D | 0 / 0 | -18.2 | -18.2 | 0.06 (4) | | | | 10.00 |

SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC. | LC1 | MAX- | MAX+ | FACE | DIR. | TYPE | HEEL | CONN. |
|---|---|---|---|---|---|---|---|---|---|
| F | 2-0-12 | 6 | 1 | 6 | FRONT | 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 | = | 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**

*** NON STANDARD GIRDER ***
ADDT'L 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

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 (0.19")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.16/0.97 (A-B:1) , BC=0.06/0.97 (D-E:4) , WB=0.00/0.97 (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

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.23 (B) (INPUT = 0.90 )
JSI METAL= 0.19 (B) (INPUT = 1.00 )



**READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.**

KOTT

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | DRWG NO. |
|---|---|---|---|---|---|
| NE0723-126 | J04 | 1 | 1 | TRUSS DESC. | |

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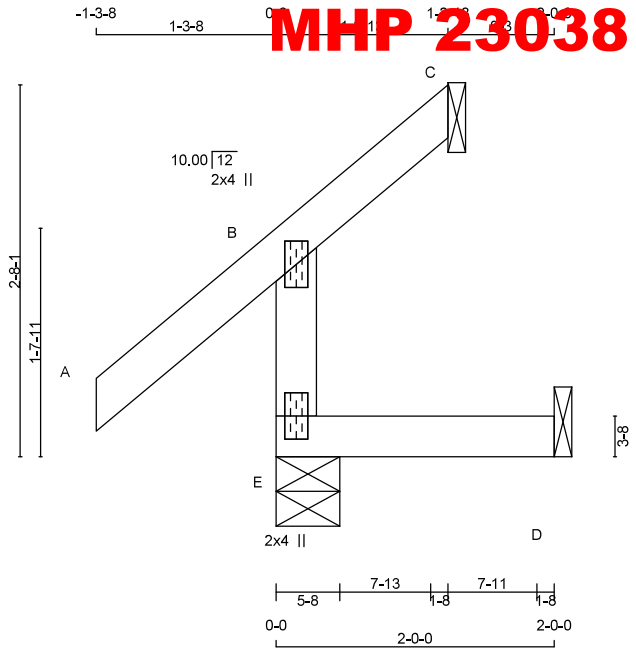


TOTAL WEIGHT = 8 lb [M]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| E - B | 2x4 | DRY | No.2 | SPF |
| A - C | 2x4 | DRY | No.2 | SPF |
| E - 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 | 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 | FACTORED GROSS REACTION VERT | HORZ | MAXIMUM FACTORED GROSS REACTION DOWN | HORZ | UPLIFT | INPUT BRG IN-SX | REQRD BRG IN-SX |
|---|---|---|---|---|---|---|---|
| E | 343 | 0 | 343 | 0 | 0 | 5-8 | 1-8 |
| C | 0 | 0 | 2 | 0 | -64 | 1-8 | 1-8 |
| D | 7 | 0 | 18 | 0 | 0 | 1-8 | 1-8 |

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

PROVIDE ANCHORAGE AT BEARING JOINT C FOR 150 LBS FACTORED UPLIFT

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| E | 236 | 190 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 47 / 0 | 0 / 0 |
| C | 0 | 0 / -42 | 0 / 0 | 0 / 0 | 0 / 0 | 1 / 0 | 0 / 0 |
| D | 7 | 0 / -7 | 0 / 0 | 0 / 0 | 0 / 0 | 13 / 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)

| CHORDS MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD LC1 FROM | TO | MAX (PLF) | CSI (LC) | WEBS MAX. UNBRAC LENGTH | MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
|---|---|---|---|---|---|---|---|---|---|
| E- B | -313 / 0 | 0.0 | 0.0 | 0.0 | 0.04 (5) | 7.81 | | | |
| A- B | 0 / 53 | -119.4 | -119.4 | 0.16 (1) | 10.00 | | | | |
| B- C | -47 / 0 | -119.4 | -119.4 | 0.12 (1) | 6.25 | | | | |
| E- D | 0 / 0 | -18.2 | -18.2 | 0.04 (5) | 10.00 | | | | |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

PATTERN-LOADING CHECK APPLIED TO THIS TRUSS.

**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 = 24.0 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 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 (0.19")
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=0.16/0.97 (A-B:1) , BC=0.04/0.97 (D-E:5) , WB=0.00/0.97 (n/a:0) , SSI=0.10/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.21 (B) (INPUT = 0.90 )
JSI METAL= 0.17 (B) (INPUT = 1.00 )



**READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.**

KOTT

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | DRWG NO. |
|---|---|---|---|---|---|
| NE0723-126 | J05 | 1 | 1 | TRUSS DESC. | |





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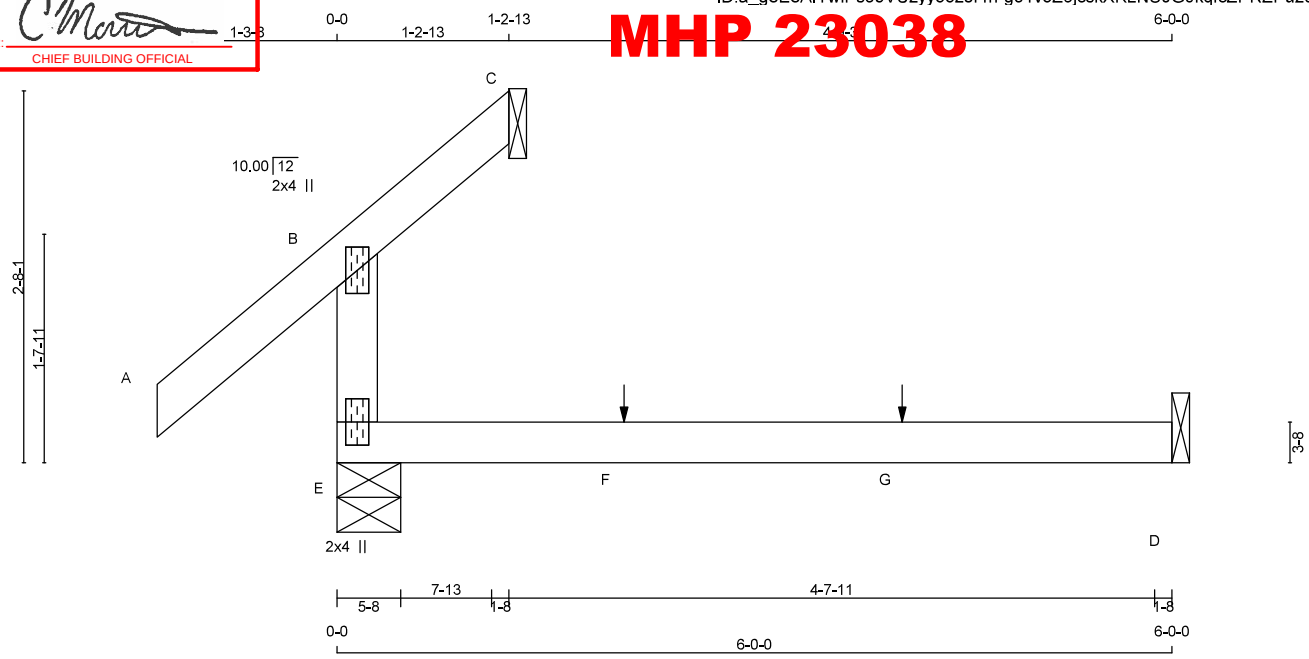


TOTAL WEIGHT = 12 lb [M]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| E - B | 2x4 | DRY | No.2 | SPF |
| A - C | 2x4 | DRY | No.2 | SPF |
| E - 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 | 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 | FACTORED GROSS REACTION VERT | HORZ | MAXIMUM FACTORED GROSS REACTION DOWN | HORZ | UPLIFT | INPUT BRG IN-SX | REQRD BRG IN-SX |
|---|---|---|---|---|---|---|---|
| E | 351 | 0 | 351 | 0 | 0 | 5-8 | 1-8 |
| C | 27 | 0 | 38 | 0 | 0 | 1-8 | 1-8 |
| D | 45 | 0 | 53 | 0 | 0 | 1-8 | 1-8 |

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

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| E | 243 | 188 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 54 / 0 | 0 / 0 |
| C | 22 | 0 / -5 | 0 / 0 | 0 / 0 | 0 / 0 | 27 / 0 | 0 / 0 |
| D | 37 | 0 / -1 | 0 / 0 | 0 / 0 | 0 / 0 | 38 / 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 MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) FROM | TO | LC1 MAX CSI (LC) | WEBS MAX. MEMB. FR-TO | FACTORED FORCE (LBS) | MAX UNBRAC LENGTH | MAX CSI (LC) |
|---|---|---|---|---|---|---|---|---|
| E- B | -286 / 0 | 0.0 | 0.0 | 0.10 (4) | | | 7.81 | |
| A- B | 0 / 53 | -119.4 | -119.4 | 0.16 (1) | | | 10.00 | |
| B- C | -30 / 17 | -119.4 | -119.4 | 0.08 (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 | |

SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC. | LC1 | MAX- | MAX+ | FACE | DIR. | TYPE | HEEL | CONN. |
|---|---|---|---|---|---|---|---|---|---|
| F | 2-0-12 | 1 | 1 | — | BACK | VERT | TOTAL | — | C1 |
| G | 4-0-12 | 1 | 1 | — | 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 = 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**

*** NON STANDARD GIRDER ***
ADDT'L 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

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=0.16/0.97 (A-B:1) , BC=0.14/0.97 (D-E:4) , WB=0.00/0.97 (n/a:0) , SSI=0.10/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.20 (B) (INPUT = 0.90 )
JSI METAL= 0.15 (B) (INPUT = 1.00 )



**READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.**

KOTT

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | DRWG NO. |
|---|---|---|---|---|---|
| NE0723-126 | J06 | 1 | 1 | TRUSS DESC. | |

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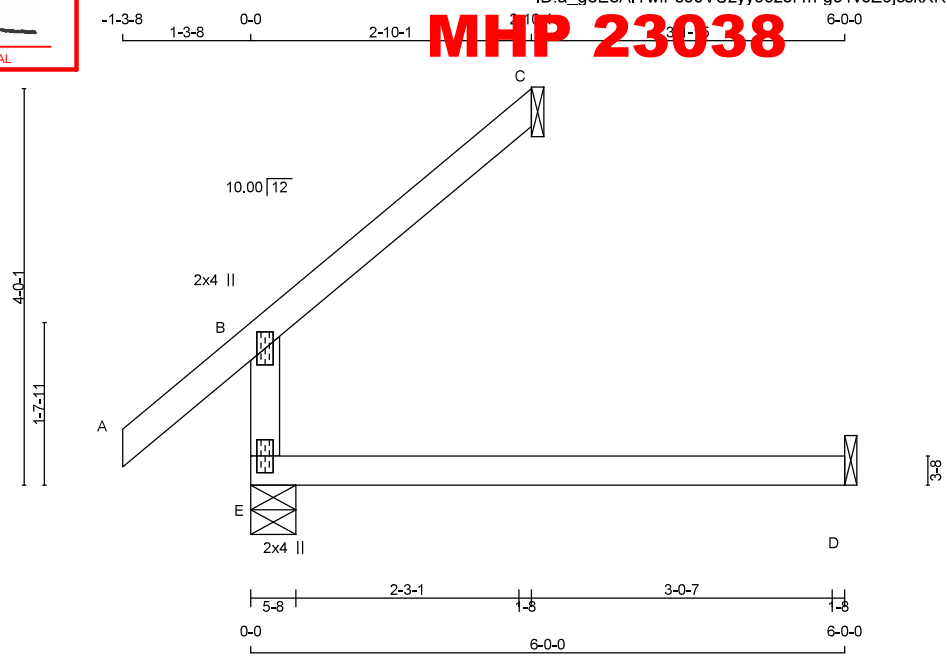


TOTAL WEIGHT = 15 lb [M]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| E - B | 2x4 | DRY | No.2 | SPF |
| A - C | 2x4 | DRY | No.2 | SPF |
| E - 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 | 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 | FACTORED GROSS REACTION VERT | HORZ | MAXIMUM FACTORED GROSS REACTION DOWN | HORZ | UPLIFT | INPUT BRG IN-SX | REQRD BRG IN-SX |
|---|---|---|---|---|---|---|---|
| E | 440 | 0 | 440 | 0 | 0 | 5-8 | 1-8 |
| C | 127 | 0 | 127 | 0 | 0 | 1-8 | 1-8 |
| D | 46 | 0 | 52 | 0 | 0 | 1-8 | 1-8 |

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

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| E | 308 | 220 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 88 / 0 | 0 / 0 |
| C | 87 | 74 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 13 / 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)

| MEMB. FR-TO | CHORDS MAX. FORCE (LBS) | FACTORED VERT. LOAD LC1 (PLF) FROM | TO | MAX CSI (LC) | WEBS MEMB. FR-TO | MAX. FORCE (LBS) | MAX CSI (LC) | UNBRAC LENGTH |
|---|---|---|---|---|---|---|---|---|
| E- B | -377 / 0 | 0.0 | 0.0 | 0.12 (4) | | | | 7.81 |
| A- B | 0 / 53 | -119.4 | -119.4 | 0.16 (1) | | | | 10.00 |
| B- C | -27 / 0 | -119.4 | -119.4 | 0.16 (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 = 24.0 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 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=0.16/0.97 (A-B:1) , BC=0.14/0.97 (D-E:4) , WB=0.00/0.97 (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

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.26 (B) (INPUT = 0.90 )
JSI METAL= 0.20 (B) (INPUT = 1.00 )


**READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.**

KOTT

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | DRWG NO. |
|---|---|---|---|---|---|
| NE0723-126 | J07 | 1 | 1 | TRUSS DESC. | |

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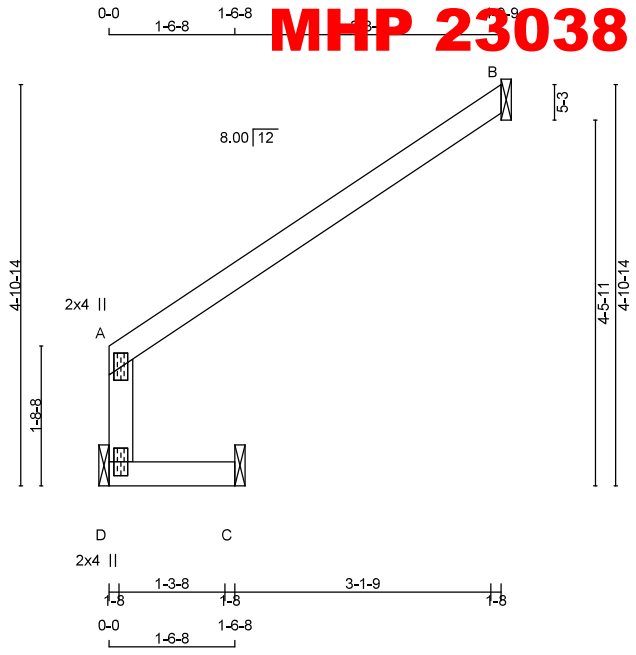


TOTAL WEIGHT = 10 lb
[M][F]

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

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

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

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

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

**BEARINGS**

| JT | FACTORED GROSS REACTION VERT | HORZ | MAXIMUM FACTORED GROSS REACTION DOWN | HORZ | UPLIFT | INPUT BRG IN-SX | REQRD BRG IN-SX |
|---|---|---|---|---|---|---|---|
| D | 225 | 0 | 225 | 0 | 0 | 1-8 | 1-8 |
| B | 251 | 0 | 251 | 0 | 0 | 1-8 | 1-8 |
| C | 125 | 0 | 125 | 0 | 0 | 1-8 | 1-8 |

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

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| D | 155 | 123 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 33 / 0 | 0 / 0 |
| B | 171 | 146 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 25 / 0 | 0 / 0 |
| C | 87 | 65 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 22 / 0 | 0 / 0 |

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

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

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

| CHORDS MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD LC1 FROM | TO | MAX (PLF) CSI (LC) | WEBS MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | MAX UNBRAC LENGTH | MAX CSI (LC) |
|---|---|---|---|---|---|---|---|---|
| D- A | -322 / 0 | 0.0 | 0.0 | 0.21 (1) | | | 7.81 | |
| A- B | -20 / 0 | -119.4 | -119.4 | 0.35 (1) | | | 6.25 | |
| D- C | 0 / 0 | -18.2 | -18.2 | 0.23 (1) | | | 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 = 24.0 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 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 (0.19")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.35/0.97 (A-B:1) , BC=0.23/0.97 (C-D:1) , WB=0.00/0.97 (n/a:0) , SSI=0.21/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.20 (A) (INPUT = 0.90 )
JSI METAL= 0.16 (A) (INPUT = 1.00 )



**READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.**

KOTT

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | DRWG NO. |
|---|---|---|---|---|---|
| NE0723-126 | J08 | 1 | 1 | TRUSS DESC. | |

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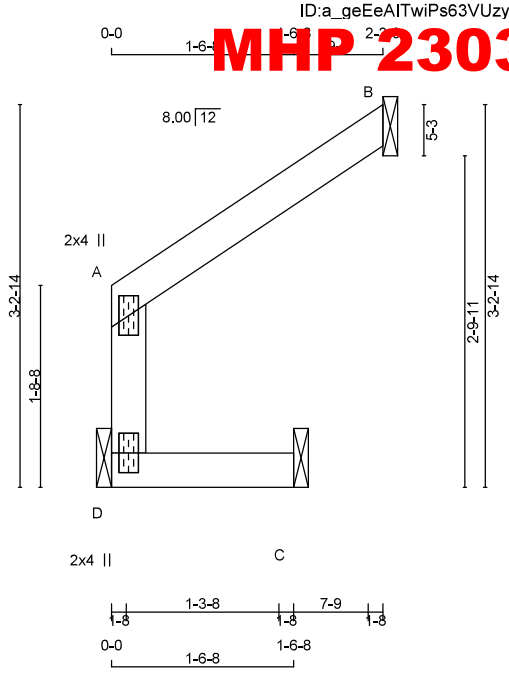


Scale = 1:19.5

TOTAL WEIGHT = 7 lb [M][F]

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

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

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

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

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

**BEARINGS**

| JT | FACTORED GROSS REACTION VERT | HORZ | MAXIMUM FACTORED GROSS REACTION DOWN | HORZ | UPLIFT | INPUT BRG IN-SX | REQRD BRG IN-SX |
|---|---|---|---|---|---|---|---|
| D | 146 | 0 | 146 | 0 | 0 | 1-8 | 1-8 |
| B | 126 | 0 | 126 | 0 | 0 | 1-8 | 1-8 |
| C | 30 | 0 | 30 | 0 | 0 | 1-8 | 1-8 |

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

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| D | 101 | 77 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 25 / 0 | 0 / 0 |
| B | 86 | 73 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 13 / 0 | 0 / 0 |
| C | 22 | 10 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 12 / 0 | 0 / 0 |

**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 MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD LC1 (PLF) FROM | TO | MAX CSI (LC) | WEBS MAX. UNBRAC LENGTH FR-TO | MEMB. | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
|---|---|---|---|---|---|---|---|---|
| D- A | -148 / 0 | 0.0 | 0.0 | 0.03 (1) | 7.81 | | | |
| A- B | -6 / 0 | -119.4 | -119.4 | 0.08 (1) | 10.00 | | | |
| D- C | 0 / 0 | -18.2 | -18.2 | 0.03 (1) | 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 = 24.0 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 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 (0.19")
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=0.08/0.97 (A-B:1) , BC=0.03/0.97 (C-D:1) , WB=0.00/0.97 (n/a:0) , SSI=0.10/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.09 (A) (INPUT = 0.90 )
JSI METAL= 0.08 (A) (INPUT = 1.00 )



**READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.**

KOTT

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | DRWG NO. |
|---|---|---|---|---|---|
| NE0723-126 | J09 | 3 | 1 | TRUSS DESC. | |

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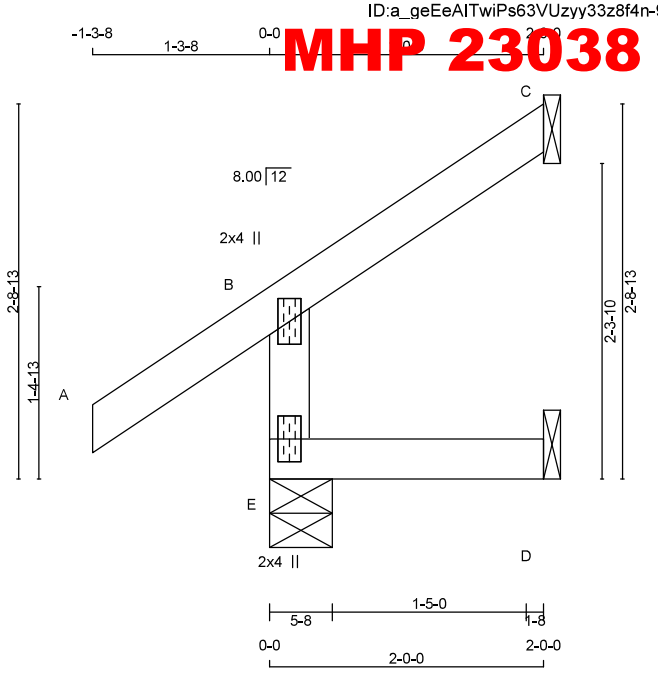


Scale = 1:16.8

TOTAL WEIGHT = 3 X 8 = 24 lb [M]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| E - B | 2x4 | DRY | No.2 | SPF |
| A - C | 2x4 | DRY | No.2 | SPF |
| E - 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 | 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 | FACTORED GROSS REACTION VERT | HORZ | MAXIMUM FACTORED GROSS REACTION DOWN | HORZ | UPLIFT | INPUT BRG IN-SX | REQRD BRG IN-SX |
|---|---|---|---|---|---|---|---|
| E | 332 | 0 | 332 | 0 | 0 | 5-8 | 1-8 |
| C | 90 | 0 | 90 | 0 | 0 | 1-8 | 1-8 |
| D | 17 | 0 | 18 | 0 | 0 | 1-8 | 1-8 |

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

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| E | 229 | 182 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 47 / 0 | 0 / 0 |
| C | 62 | 53 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 9 / 0 | 0 / 0 |
| D | 13 | 0 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 13 / 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 = 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)

| CHORDS MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD LC1 (PLF) FROM | TO | MAX CSI (LC) | WEBS MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
|---|---|---|---|---|---|---|---|
| E- B | -312 / 0 | 0.0 | 0.0 | 0.01 (4) | UNBRAC LENGTH | 7.81 | |
| A- B | 0 / 45 | -119.4 | -119.4 | 0.16 (1) | | 10.00 | |
| B- C | -16 / 0 | -119.4 | -119.4 | 0.08 (1) | | 6.25 | |
| E- D | 0 / 0 | -18.2 | -18.2 | 0.02 (4) | | 10.00 | |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

PATTERN-LOADING CHECK APPLIED TO THIS TRUSS.

**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 = 24.0 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 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 (0.19")
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=0.16/0.97 (A-B:1) , BC=0.02/0.97 (D-E:4) , WB=0.00/0.97 (n/a:0) , SSI=0.11/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.19 (B) (INPUT = 0.90 )
JSI METAL= 0.16 (B) (INPUT = 1.00 )



**READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.**

KOTT

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | DRWG NO. |
|---|---|---|---|---|---|
| NE0723-126 | P01 | 2 | 1 | TRUSS DESC. | |

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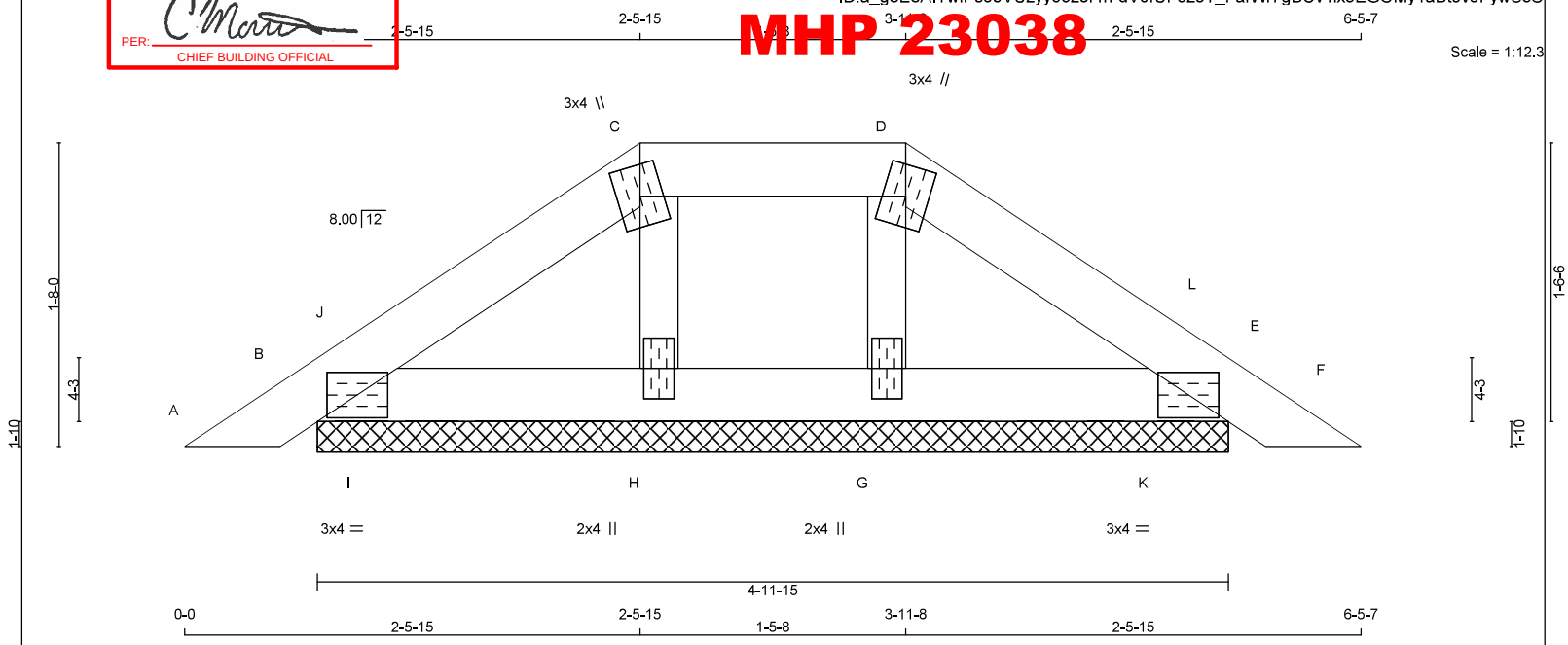


TOTAL WEIGHT = 2 X 16 = 31 lb [M]

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

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

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE | PLATES | W | LEN | Y | X |
|---|---|---|---|---|---|---|
| B | TMB1-I | MT20 | 3.0 | 4.0 | | |
| C | TTW+m | MT20 | 3.0 | 4.0 | | |
| D | TTW+m | MT20 | 3.0 | 4.0 | | |
| E | TMB1-I | MT20 | 3.0 | 4.0 | | |
| G | BMW1+w | MT20 | 2.0 | 4.0 | | |
| H | BMW1+w | MT20 | 2.0 | 4.0 | | |

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

**BEARINGS**

| JT | FACTORED GROSS REACTION VERT | HORZ | MAXIMUM FACTORED GROSS REACTION DOWN | HORZ | UPLIFT | INPUT BRG IN-SX | REQRD BRG IN-SX |
|---|---|---|---|---|---|---|---|
| B | 220 | 0 | 220 | 0 | 0 | 4-11-15 | 1-8 |
| E | 220 | 0 | 220 | 0 | 0 | 4-11-15 | 1-8 |
| H | 201 | 0 | 201 | 0 | 0 | 4-11-15 | 1-8 |
| G | 201 | 0 | 201 | 0 | 0 | 4-11-15 | 1-8 |

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| B | 152 | 119 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 33 / 0 | 0 / 0 |
| E | 152 | 119 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 33 / 0 | 0 / 0 |
| H | 141 | 100 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 41 / 0 | 0 / 0 |
| G | 141 | 100 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 41 / 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)

| CHORDS MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD LC1 (PLF) FROM | TO | MAX CSI (LC) | WEBS MAX. UNBRAC LENGTH | MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
|---|---|---|---|---|---|---|---|---|
| A- B | 0 / 20 | -119.4 | -119.4 | 0.04 (1) | 10.00 | H- C | -148 / 0 | 0.02 (1) |
| B- J | -47 / 0 | -119.4 | -119.4 | 0.01 (4) | 6.25 | G- D | -148 / 0 | 0.02 (1) |
| J- C | -46 / 0 | -119.4 | -119.4 | 0.04 (1) | 6.25 | I- J | -104 / 0 | 0.00 (1) |
| C- D | -26 / 0 | -119.4 | -119.4 | 0.04 (1) | 6.25 | K- L | -104 / 0 | 0.00 (1) |
| D- L | -46 / 0 | -119.4 | -119.4 | 0.04 (1) | 6.25 | | | |
| L- E | -47 / 0 | -119.4 | -119.4 | 0.01 (4) | 6.25 | | | |
| E- F | 0 / 20 | -119.4 | -119.4 | 0.04 (1) | 10.00 | | | |
| B- I | 0 / 38 | -18.2 | -18.2 | 0.05 (1) | 10.00 | | | |
| I- H | 0 / 38 | -18.2 | -18.2 | 0.05 (1) | 10.00 | | | |
| H- G | 0 / 26 | -18.2 | -18.2 | 0.02 (1) | 10.00 | | | |
| G- K | 0 / 38 | -18.2 | -18.2 | 0.05 (1) | 10.00 | | | |
| K- E | 0 / 38 | -18.2 | -18.2 | 0.05 (1) | 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 = 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 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

CSI: TC=0.04/0.97 (C-D:1) , BC=0.05/0.97 (G-K:1) , WB=0.02/0.97 (D-G:1) , SSI=0.07/1.00 (E-K:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.17 (E) (INPUT = 0.90 )
JSI METAL= 0.03 (E) (INPUT = 1.00 )


**READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.**

KOTT

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | DRWG NO. |
|---|---|---|---|---|---|
| NE0723-126 | P02 | 4 | 1 | TRUSS DESC. | |

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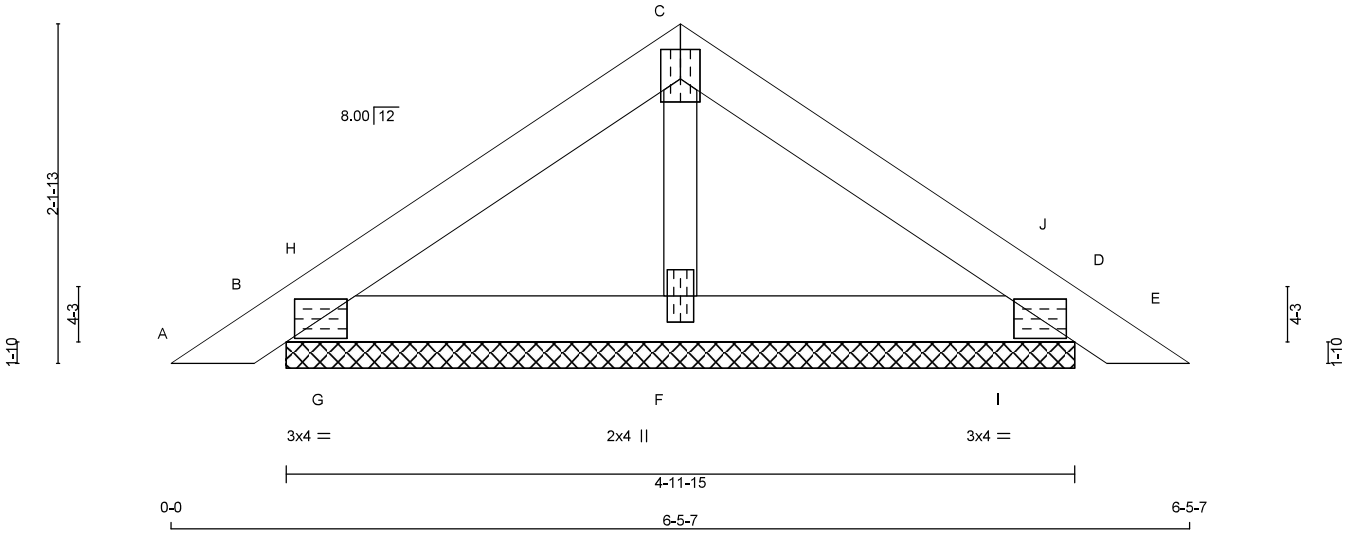


TOTAL WEIGHT = 4 X 16 = 63 lb [M]

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

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

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE | PLATES | W | LEN | Y | X |
|---|---|---|---|---|---|---|
| B | TMB1-I | MT20 | 3.0 | 4.0 | | |
| C | TTW+p | MT20 | 3.0 | 4.0 | 2.25 | 1.50 |
| 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 VERT | HORZ | MAXIMUM FACTORED GROSS REACTION DOWN | HORZ | UPLIFT | INPUT BRG IN-SX | REQRD BRG IN-SX |
|---|---|---|---|---|---|---|---|
| B | 270 | 0 | 270 | 0 | 0 | 4-11-15 | 1-8 |
| D | 270 | 0 | 270 | 0 | 0 | 4-11-15 | 1-8 |
| F | 302 | 0 | 302 | 0 | 0 | 4-11-15 | 1-8 |

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| B | 187 | 146 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 41 / 0 | 0 / 0 |
| D | 187 | 146 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 41 / 0 | 0 / 0 |
| F | 213 | 146 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 67 / 0 | 0 / 0 |

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

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

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

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

| CHORDS MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD LC1 FROM | TO | MAX (PLF) CSI (LC) | MAX. UNBRAC LENGTH | WEBS MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
|---|---|---|---|---|---|---|---|---|
| A- B | 0 / 20 | -119.4 | -119.4 | 0.04 (1) | 10.00 | F- C | -161 / 0 | 0.02 (1) |
| B- H | -38 / 0 | -119.4 | -119.4 | 0.03 (1) | 6.25 | G- H | -214 / 0 | 0.00 (1) |
| H- C | -77 / 0 | -119.4 | -119.4 | 0.08 (1) | 6.25 | I- J | -214 / 0 | 0.00 (1) |
| C- J | -77 / 0 | -119.4 | -119.4 | 0.08 (1) | 6.25 | | | |
| J- D | -38 / 0 | -119.4 | -119.4 | 0.03 (1) | 6.25 | | | |
| D- E | 0 / 20 | -119.4 | -119.4 | 0.04 (1) | 10.00 | | | |
| B- G | 0 / 59 | -18.2 | -18.2 | 0.09 (1) | 10.00 | | | |
| G- F | 0 / 59 | -18.2 | -18.2 | 0.09 (1) | 10.00 | | | |
| F- I | 0 / 59 | -18.2 | -18.2 | 0.09 (1) | 10.00 | | | |
| I- D | 0 / 59 | -18.2 | -18.2 | 0.09 (1) | 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 = 24.0 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 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

CSI: TC=0.08/0.97 (C-J:1) , BC=0.09/0.97 (F-I:1) , WB=0.02/0.97 (C-F:1) , SSI=0.15/1.00 (D-I:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.23 (D) (INPUT = 0.90 )
JSI METAL= 0.05 (B) (INPUT = 1.00 )



**READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.**

KOTT

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | DRWG NO. |
|---|---|---|---|---|---|
| NE0723-126 | T01 | 1 | 1 | TRUSS DESC. | |





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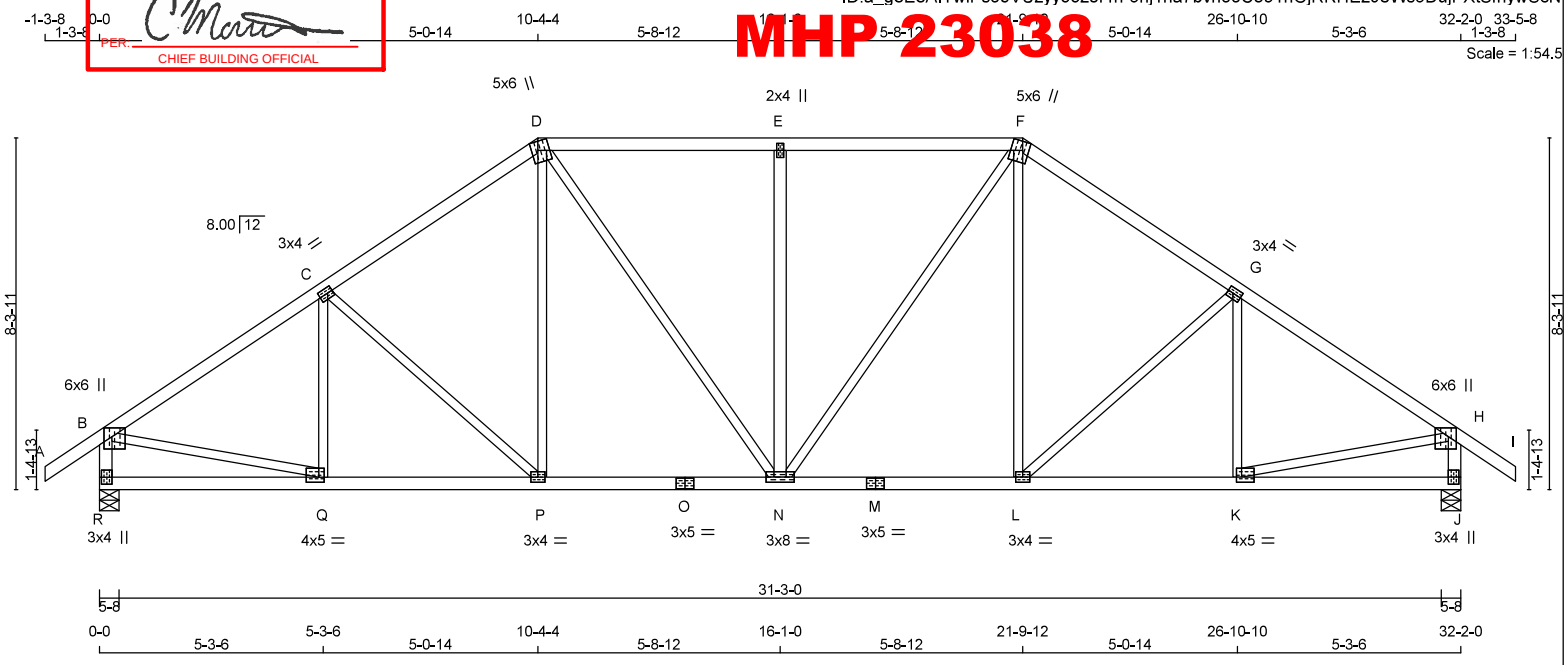


TOTAL WEIGHT = 147 lb
[M][F]

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

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

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE | PLATES | W | LEN | Y | X |
|---|---|---|---|---|---|---|
| B | TMVW+p | MT20 | 6.0 | 6.0 | Edge | 3.75 |
| C | TMWW-t | MT20 | 3.0 | 4.0 | 1.50 | 1.50 |
| D | TTWW+m | MT20 | 5.0 | 6.0 | Edge | 1.75 |
| E | TMW+w | MT20 | 2.0 | 4.0 | | |
| F | TTWW+m | MT20 | 5.0 | 6.0 | Edge | 1.75 |
| G | TMWW-t | MT20 | 3.0 | 4.0 | 1.50 | 1.50 |
| H | TMVW+p | MT20 | 6.0 | 6.0 | Edge | 3.75 |
| J | BMV1+p | MT20 | 3.0 | 4.0 | 2.00 | |
| K | BMWW-t | MT20 | 4.0 | 5.0 | 1.50 | 1.50 |
| L | BMWW-t | MT20 | 3.0 | 4.0 | | |
| M | BS-t | MT20 | 3.0 | 5.0 | | |
| N | BMWWW-t | MT20 | 3.0 | 8.0 | | |
| O | BS-t | MT20 | 3.0 | 5.0 | | |
| P | BMWW-t | MT20 | 3.0 | 4.0 | | |
| Q | BMWW-t | MT20 | 4.0 | 5.0 | 1.50 | 1.50 |
| R | BMV1+p | MT20 | 3.0 | 4.0 | 2.00 | 0.50 |

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

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

**BEARINGS**

| | FACTORED GROSS REACTION | | MAXIMUM FACTORED GROSS REACTION | | | INPUT BRG | REQRD BRG |
|---|---|---|---|---|---|---|---|
| JT | VERT | HORZ | DOWN | HORZ | UPLIFT | IN-SX | IN-SX |
| R | 2378 | 0 | 2378 | 0 | 0 | 5-8 | 4-4 |
| J | 2378 | 0 | 2378 | 0 | 0 | 5-8 | 4-4 |

**UNFACTORED REACTIONS**

| | 1ST LCASE | MAX./MIN. COMPONENT REACTIONS | | | | | |
|---|---|---|---|---|---|---|---|
| JT | COMBINED | SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
| R | 1660 | 1215 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 444 / 0 | 0 / 0 |
| J | 1660 | 1215 / 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 = 3.72 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

| CHORDS | | | | | | WEBS | | | |
|---|---|---|---|---|---|---|---|---|---|
| MEMB. | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) FROM | TO | LC1 MAX CSI (LC) | MAX. UNBRAC LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
| FR-TO | | | | | | FR-TO | | |
| A- B | 0 / 45 | -119.4 | -119.4 | 0.16 (1) | 10.00 | Q- C | -355 / 0 | 0.13 (1) |
| B- C | -2619 / 0 | -119.4 | -119.4 | 0.53 (1) | 3.72 | C- P | -357 / 0 | 0.32 (1) |
| C- D | -2383 / 0 | -119.4 | -119.4 | 0.50 (1) | 3.91 | P- D | 0 / 340 | 0.08 (1) |
| D- E | -2286 / 0 | -119.4 | -119.4 | 0.58 (1) | 3.81 | D- N | 0 / 577 | 0.13 (1) |
| E- F | -2286 / 0 | -119.4 | -119.4 | 0.58 (1) | 3.81 | N- E | -838 / 0 | 0.81 (1) |
| F- G | -2383 / 0 | -119.4 | -119.4 | 0.50 (1) | 3.91 | N- F | 0 / 577 | 0.13 (1) |
| G- H | -2619 / 0 | -119.4 | -119.4 | 0.53 (1) | 3.72 | L- F | 0 / 340 | 0.08 (1) |
| H- I | 0 / 45 | -119.4 | -119.4 | 0.16 (1) | 10.00 | L- G | -357 / 0 | 0.32 (1) |
| R- B | -2335 / 0 | 0.0 | 0.0 | 0.24 (1) | 5.51 | K- G | -355 / 0 | 0.13 (1) |
| J- H | -2335 / 0 | 0.0 | 0.0 | 0.24 (1) | 5.51 | B- Q | 0 / 2258 | 0.51 (1) |
| | | | | | | K- H | 0 / 2258 | 0.51 (1) |
| R- Q | 0 / 0 | -18.2 | -18.2 | 0.11 (4) | 10.00 | | | |
| Q- P | 0 / 2212 | -18.2 | -18.2 | 0.42 (1) | 10.00 | | | |
| P- O | 0 / 1950 | -18.2 | -18.2 | 0.37 (1) | 10.00 | | | |
| O- N | 0 / 1950 | -18.2 | -18.2 | 0.37 (1) | 10.00 | | | |
| N- M | 0 / 1950 | -18.2 | -18.2 | 0.37 (1) | 10.00 | | | |
| M- L | 0 / 1950 | -18.2 | -18.2 | 0.37 (1) | 10.00 | | | |
| L- K | 0 / 2212 | -18.2 | -18.2 | 0.42 (1) | 10.00 | | | |
| K- J | 0 / 0 | -18.2 | -18.2 | 0.11 (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 = 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 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 (1.07")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.11")
ALLOWABLE DEFL.(TL)= L/360 (1.07")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.19")

CSI: TC=0.58/0.97 (E-F:1) , BC=0.42/0.97 (P-Q:1) , WB=0.81/0.97 (E-N:1) , SSI=0.33/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

| PLATE | GRIP(DRY) (PSI) MAX | MIN | SHEAR (PLI) MAX | MIN | SECTION (PLI) 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 (N) (INPUT = 0.90 )
JSI METAL= 0.63 (Q) (INPUT = 1.00 )



**READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.**

KOTT

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | DRWG NO. |
|---|---|---|---|---|---|
| NE0723-126 | T02 | 1 | 1 | TRUSS DESC. | |



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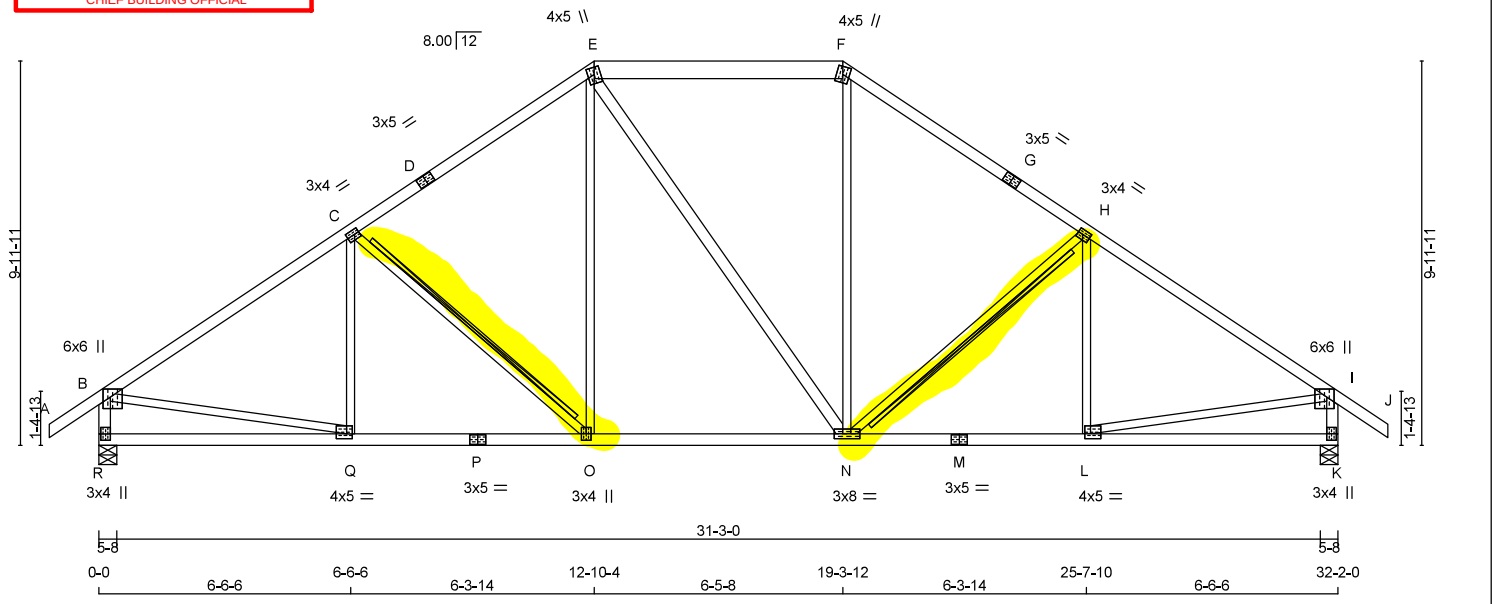


TOTAL WEIGHT = 149 lb
[M][F]

**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 | 2x6 | DRY | No.2 | SPF |
| F - G | 2x4 | DRY | No.2 | SPF |
| G - J | 2x4 | DRY | No.2 | SPF |
| R - B | 2x4 | DRY | No.2 | SPF |
| K - I | 2x4 | DRY | No.2 | SPF |
| R - P | 2x4 | DRY | No.2 | SPF |
| P - M | 2x4 | DRY | No.2 | SPF |
| M - K | 2x4 | DRY | No.2 | SPF |
| ALL WEBS EXCEPT | 2x3 | DRY | No.2 | SPF |
| E - N | 2x4 | DRY | No.2 | SPF |

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE | PLATES | W | LEN | Y | X |
|---|---|---|---|---|---|---|
| B | TMVW+p | MT20 | 6.0 | 6.0 | Edge | 3.75 |
| C | TMWW-t | MT20 | 3.0 | 4.0 | 1.50 | 1.50 |
| D | TS-t | MT20 | 3.0 | 5.0 | | |
| E | TTWW+m | MT20 | 4.0 | 5.0 | 2.25 | 2.00 |
| F | TTW+m | MT20 | 4.0 | 5.0 | | |
| G | TS-t | MT20 | 3.0 | 5.0 | | |
| H | TMWW-t | MT20 | 3.0 | 4.0 | 1.50 | 1.50 |
| I | TMVW+p | MT20 | 6.0 | 6.0 | Edge | 3.75 |
| K | BMV1+p | MT20 | 3.0 | 4.0 | 2.00 | |
| L | BMWW-t | MT20 | 4.0 | 5.0 | 1.50 | 1.75 |
| M | BS-t | MT20 | 3.0 | 5.0 | | |
| N | BMWWW-t | MT20 | 3.0 | 8.0 | | |
| O | BMWW+t | MT20 | 3.0 | 4.0 | | |
| P | BS-t | MT20 | 3.0 | 5.0 | | |
| Q | BMWW-t | MT20 | 4.0 | 5.0 | 1.50 | 1.75 |
| R | BMV1+p | MT20 | 3.0 | 4.0 | 2.00 | 0.50 |

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

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

**BEARINGS**

| | FACTORED GROSS REACTION | | MAXIMUM FACTORED GROSS REACTION | | | INPUT BRG | REQRD BRG |
|---|---|---|---|---|---|---|---|
| JT | VERT | HORZ | DOWN | HORZ | UPLIFT | IN-SX | IN-SX |
| R | 2378 | 0 | 2378 | 0 | 0 | 5-8 | 4-4 |
| K | 2378 | 0 | 2378 | 0 | 0 | 5-8 | 4-4 |

**UNFACTORED REACTIONS**

| | 1ST LCASE | MAX./MIN. COMPONENT REACTIONS | | | | | |
|---|---|---|---|---|---|---|---|
| JT | COMBINED | SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
| R | 1660 | 1215 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 444 / 0 | 0 / 0 |
| K | 1660 | 1215 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 444 / 0 | 0 / 0 |

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

**BRACING**
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.19 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

2x4 DRY SPF No.2 T-BRACE AT C-O, H-N

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

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

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

| CHORDS MEMB. FR-TO | MAX. FORCE (LBS) | FACTORED VERT. LOAD LC1 FROM | TO | MAX CSI (LC) | MAX. UNBRAC LENGTH | WEBS MEMB. FR-TO | MAX. FORCE (LBS) | MAX CSI (LC) |
|---|---|---|---|---|---|---|---|---|
| A- B | 0 / 45 | -119.4 | -119.4 | 0.16 (1) | 10.00 | Q- C | -246 / 45 | 0.13 (1) |
| B- C | -2642 / 0 | -119.4 | -119.4 | 0.85 (1) | 3.19 | C- O | -602 / 0 | 0.31 (1) |
| C- D | -2195 / 0 | -119.4 | -119.4 | 0.76 (1) | 3.59 | O- E | 0 / 513 | 0.12 (1) |
| D- E | -2195 / 0 | -119.4 | -119.4 | 0.76 (1) | 3.59 | E- N | 0 / 1 | 0.00 (1) |
| E- F | -1782 / 0 | -119.4 | -119.4 | 0.33 (1) | 5.51 | N- F | 0 / 514 | 0.12 (1) |
| F- G | -2196 / 0 | -119.4 | -119.4 | 0.76 (1) | 3.59 | N- H | -601 / 0 | 0.31 (1) |
| G- H | -2196 / 0 | -119.4 | -119.4 | 0.76 (1) | 3.59 | L- H | -247 / 45 | 0.13 (1) |
| H- I | -2641 / 0 | -119.4 | -119.4 | 0.85 (1) | 3.19 | B- Q | 0 / 2270 | 0.51 (1) |
| I- J | 0 / 45 | -119.4 | -119.4 | 0.16 (1) | 10.00 | L- I | 0 / 2270 | 0.51 (1) |
| R- B | -2327 / 0 | 0.0 | 0.0 | 0.24 (1) | 5.52 | | | |
| K- I | -2327 / 0 | 0.0 | 0.0 | 0.24 (1) | 5.52 | | | |
| R- Q | 0 / 0 | -18.2 | -18.2 | 0.17 (4) | 10.00 | | | |
| Q- P | 0 / 2240 | -18.2 | -18.2 | 0.44 (1) | 10.00 | | | |
| P- O | 0 / 2240 | -18.2 | -18.2 | 0.44 (1) | 10.00 | | | |
| O- N | 0 / 1781 | -18.2 | -18.2 | 0.37 (1) | 10.00 | | | |
| N- M | 0 / 2240 | -18.2 | -18.2 | 0.45 (1) | 10.00 | | | |
| M- L | 0 / 2240 | -18.2 | -18.2 | 0.45 (1) | 10.00 | | | |
| L- K | 0 / 0 | -18.2 | -18.2 | 0.17 (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 = 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 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 (1.07")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.10")
ALLOWABLE DEFL.(TL)= L/360 (1.07")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.20")

CSI: TC=0.85/0.97 (B-C:1) , BC=0.45/0.97 (L-N:1) , WB=0.51/0.97 (B-Q:1) , SSI=0.31/1.00 (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) (PSI) MAX | MIN | SHEAR (PLI) MAX | MIN | SECTION (PLI) 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 (Q) (INPUT = 0.90 )
JSI METAL= 0.71 (P) (INPUT = 1.00 )



**READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.**

KOTT

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | DRWG NO. |
|---|---|---|---|---|---|
| NE0723-126 | T03 | 1 | 1 | TRUSS DESC. | |



Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Wed Jul 19 16:45:27 2023 Page 1
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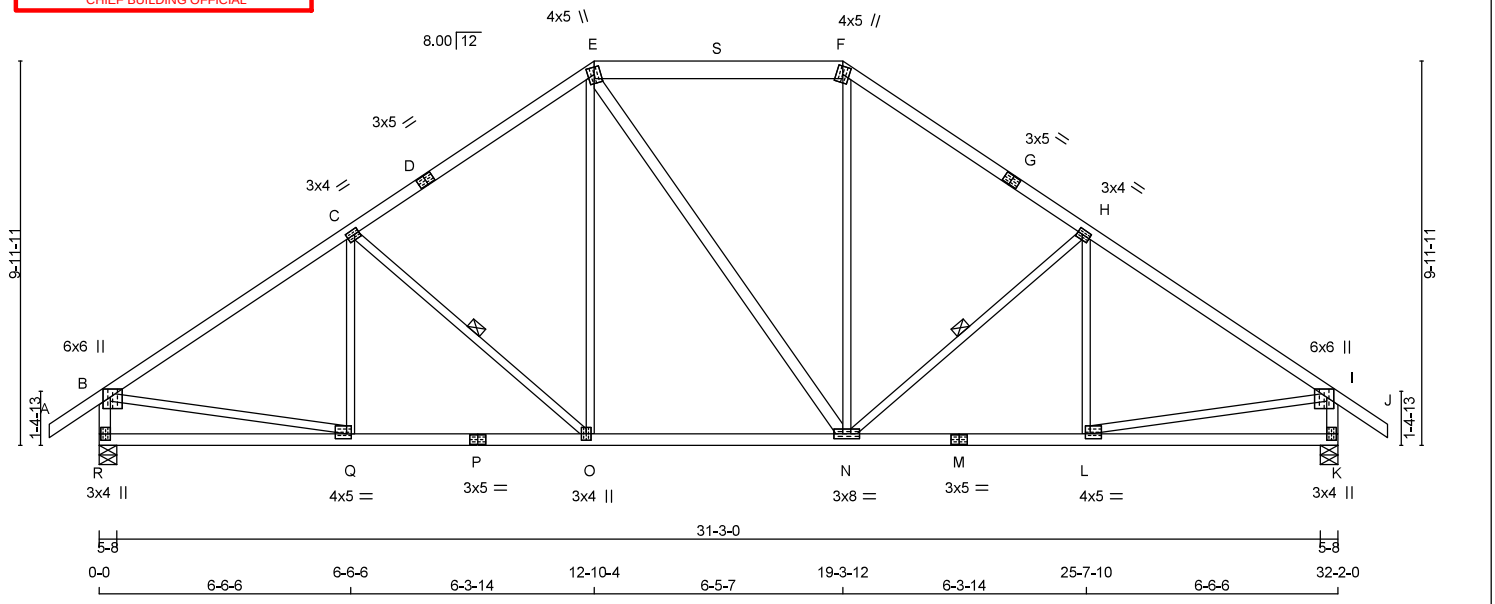


TOTAL WEIGHT = 149 lb [M][F]

**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 | 2x6 | DRY | No.2 | SPF |
| F - G | 2x4 | DRY | No.2 | SPF |
| G - J | 2x4 | DRY | No.2 | SPF |
| R - B | 2x4 | DRY | No.2 | SPF |
| K - I | 2x4 | DRY | No.2 | SPF |
| R - P | 2x4 | DRY | No.2 | SPF |
| P - M | 2x4 | DRY | No.2 | SPF |
| M - K | 2x4 | DRY | No.2 | SPF |
| ALL WEBS EXCEPT | 2x3 | DRY | No.2 | SPF |
| E - N | 2x4 | DRY | No.2 | SPF |

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE | PLATES | W | LEN | Y | X |
|---|---|---|---|---|---|---|
| B | TMVW+p | MT20 | 6.0 | 6.0 | Edge | 3.75 |
| C | TMWW-t | MT20 | 3.0 | 4.0 | 1.50 | 1.50 |
| D | TS-t | MT20 | 3.0 | 5.0 | | |
| E | TTWW+m | MT20 | 4.0 | 5.0 | 2.25 | 2.00 |
| F | TTW+m | MT20 | 4.0 | 5.0 | | |
| G | TS-t | MT20 | 3.0 | 5.0 | | |
| H | TMWW-t | MT20 | 3.0 | 4.0 | 1.50 | 1.50 |
| I | TMVW+p | MT20 | 6.0 | 6.0 | Edge | 3.75 |
| K | BMV1+p | MT20 | 3.0 | 4.0 | 2.00 | |
| L | BMWW-t | MT20 | 4.0 | 5.0 | 1.50 | 1.50 |
| M | BS-t | MT20 | 3.0 | 5.0 | | |
| N | BMWWW-t | MT20 | 3.0 | 8.0 | | |
| O | BMWW+t | MT20 | 3.0 | 4.0 | | |
| P | BS-t | MT20 | 3.0 | 5.0 | | |
| Q | BMWW-t | MT20 | 4.0 | 5.0 | 1.50 | 1.50 |
| R | BMV1+p | MT20 | 3.0 | 4.0 | 2.00 | 0.50 |

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 VERT | HORZ | MAXIMUM FACTORED GROSS REACTION DOWN | HORZ | UPLIFT | INPUT BRG IN-SX | REQRD BRG IN-SX |
|---|---|---|---|---|---|---|---|
| R | 2402 | 0 | 2402 | 0 | 0 | 5-8 | 4-5 |
| K | 2402 | 0 | 2402 | 0 | 0 | 5-8 | 4-5 |

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| R | 1679 | 1215 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 464 / 0 | 0 / 0 |
| K | 1679 | 1215 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 464 / 0 | 0 / 0 |

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

**BRACING**
FOR SECTION E-F, MAX. PURLIN SPACING = 2.00 FT.
FOR OTHER SECTIONS, TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.16 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 1x4 LATERAL BRACE(S) AT 1/ 2 LENGTH OF C-O, H-N. DBS = 20-0-0 . CBF = 75 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE (PER BRACE). FASTEN LATERAL BRACE(S) USING (0.122"X3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

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. FR-TO | MAX. FORCE (LBS) | FACTORED VERT. LOAD LC1 (PLF) FROM | TO | MAX CSI (LC) | MAX. UNBRAC LENGTH | WEBS MEMB. FR-TO | MAX. FORCE (LBS) | MAX CSI (LC) |
|---|---|---|---|---|---|---|---|---|
| A- B | 0 / 45 | -119.4 | -119.4 | 0.16 (1) | 10.00 | Q- C | -251 / 40 | 0.13 (1) |
| B- C | -2677 / 0 | -119.4 | -119.4 | 0.86 (1) | 3.16 | C- O | -598 / 0 | 0.28 (1) |
| C- D | -2234 / 0 | -119.4 | -119.4 | 0.76 (1) | 3.56 | O- E | 0 / 510 | 0.11 (1) |
| D- E | -2234 / 0 | -119.4 | -119.4 | 0.76 (1) | 3.56 | E- N | 0 / 1 | 0.00 (1) |
| E- S | -1814 / 0 | -126.9 | -126.9 | 0.46 (1) | 2.00 | N- F | 0 / 512 | 0.12 (1) |
| S- F | -1814 / 0 | -126.9 | -126.9 | 0.46 (1) | 2.00 | N- H | -597 / 0 | 0.28 (1) |
| F- G | -2235 / 0 | -119.4 | -119.4 | 0.76 (1) | 3.56 | L- H | -252 / 39 | 0.13 (1) |
| G- H | -2235 / 0 | -119.4 | -119.4 | 0.76 (1) | 3.56 | B- Q | 0 / 2300 | 0.52 (1) |
| H- I | -2676 / 0 | -119.4 | -119.4 | 0.86 (1) | 3.16 | L- I | 0 / 2299 | 0.52 (1) |
| I- J | 0 / 45 | -119.4 | -119.4 | 0.16 (1) | 10.00 | | | |
| R- B | -2352 / 0 | 0.0 | 0.0 | 0.24 (1) | 5.49 | | | |
| K- I | -2351 / 0 | 0.0 | 0.0 | 0.24 (1) | 5.49 | | | |
| R- Q | 0 / 0 | -18.2 | -18.2 | 0.17 (4) | 10.00 | | | |
| Q- P | 0 / 2269 | -18.2 | -18.2 | 0.44 (1) | 10.00 | | | |
| P- O | 0 / 2269 | -18.2 | -18.2 | 0.44 (1) | 10.00 | | | |
| O- N | 0 / 1813 | -18.2 | -18.2 | 0.38 (1) | 10.00 | | | |
| N- M | 0 / 2269 | -18.2 | -18.2 | 0.45 (1) | 10.00 | | | |
| M- L | 0 / 2269 | -18.2 | -18.2 | 0.45 (1) | 10.00 | | | |
| L- K | 0 / 0 | -18.2 | -18.2 | 0.17 (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 = 24.0 IN. C/C**

LOADING IN FLAT SECTION BASED ON PIGGYBACK TRUSS WITH SLOPES OF 8.00/12 AND -8.00/12 AND RESPECTIVE HEEL HEIGHTS OF 0-0 AND 0-0 AND AN ADDITIONAL DEAD LOAD OF 3.0 P.S.F.

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 (1.07")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.10")
ALLOWABLE DEFL.(TL)= L/360 (1.07")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.20")

CSI: TC=0.86/0.97 (B-C:1) , BC=0.45/0.97 (L-N:1) , WB=0.52/0.97 (B-Q:1) , SSI=0.31/1.00 (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) (PSI) MAX | MIN | SHEAR (PLI) MAX | MIN | SECTION (PLI) MAX | MIN |
|---|---|---|---|---|---|---|
| MT20 | 650 | 371 | 1747 | 788 | 1987 | 1873 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (B) (INPUT = 0.90 )
JSI METAL= 0.71 (P) (INPUT = 1.00 )


**READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.**

KOTT