
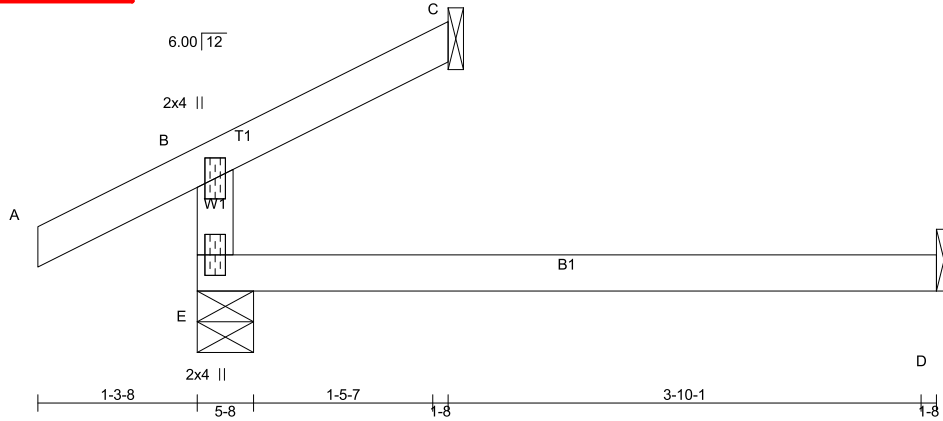


|   |                         |          |     |             |           |
|---|-------------------------|----------|-----|-------------|-----------|
| JOB NAME  | TRUSS NAME              | QUANTITY | PLY | JOB DESC.   | DRWG NO.  |
| IM0723-092  | TRUSS NAME              | 3        | 1   | TRUSS DESC. | MHP 23030 |
| Version 8.630 S Mar 22 2023 Mitek Industries, Inc. Fri Jul 14 07:33:57 2023 Page 1    |                         |          |     |             |           |
| ID:bcGHXsLhLjMpVeVc_4eeDgzAk?y-bcmD3_HD?WM6jHu8KP090w9gPRN6SD_hMMAUKSyyE90            |                         |          |     |             |           |
| PER:  | CHIEF BUILDING OFFICIAL | 4-3-8    | 0-0 | 2-0-7       | 2-0-7     |
| 3-11-9  |                         |          |     |             |           |
| 6-0-0   |                         |          |     |             |           |

Scale = 1:18.7



TOTAL WEIGHT = 3 X 12 = 36 lb

**LUMBER**

N. L. G. A. RULES  
CHORDS SIZE  
E - B 2x4 DRY  
A - C 2x4 DRY  
E - D 2x4 DRY

LUMBER  
No.2  
No.2  
No.2

DESCR.  
SPF  
SPF  
SPF

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

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

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

|    | FACTORED       | MAXIMUM FACTORED | INPUT  | REQD  |
|----|----------------|------------------|--------|-------|
|    | GROSS REACTION | GROSS REACTION   | BRG    | BRG   |
| JT | VERT           | HORZ             | UPLIFT | IN-SX |
| E  | 378            | 0                | 378    | 0     |
| C  | 92             | 0                | 92     | 0     |
| D  | 45             | 0                | 51     | 0     |

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

**UNFACTORED REACTIONS**

| JT | 1ST LCASE | MAX./MIN. COMPONENT REACTIONS | WIND  | DEAD   | SOIL  |
|----|-----------|-------------------------------|-------|--------|-------|
| E  | 266       | 183 / 0                       | 0 / 0 | 83 / 0 | 0 / 0 |
| C  | 63        | 54 / 0                        | 0 / 0 | 9 / 0  | 0 / 0 |
| D  | 36        | 0 / 0                         | 0 / 0 | 36 / 0 | 0 / 0 |

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

**BRACING**

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

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

**LOADING**

TOTAL LOAD CASES: (4)

| C H O R D S |                           |                           |              | W E B S              |       |                           |                      |
|-------------|---------------------------|---------------------------|--------------|----------------------|-------|---------------------------|----------------------|
| MEMB.       | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX LC1 (LC) | MAX. UNBRACED LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH |
| FR-TO       |                           | FROM TO                   |              |                      | FR-TO |                           |                      |
| E-B         | -313 / 0                  | 0.0                       | 0.0          | 0.13 (4)             | 7.81  |                           |                      |
| A-B         | 0 / 36                    | -119.4                    | -119.4       | 0.16 (1)             | 10.00 |                           |                      |
| B-C         | -13 / 0                   | -119.4                    | -119.4       | 0.08 (1)             | 6.25  |                           |                      |
| E-D         | 0 / 0                     | -18.2                     | -18.2        | 0.13 (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 (0.03")

CSI: TC=0.16/0.97 (A-B:1), BC=0.13/0.97 (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) | SHEAR (PLI) | SECTION (PLI) |
|-------|-----------------|-------------|---------------|
| MT20  | 650             | 371         | 1747          |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.18 (B) (INPUT = 0.90 )  
JSI METAL= 0.13 (B) (INPUT = 1.00 )



JULY 14, 2023

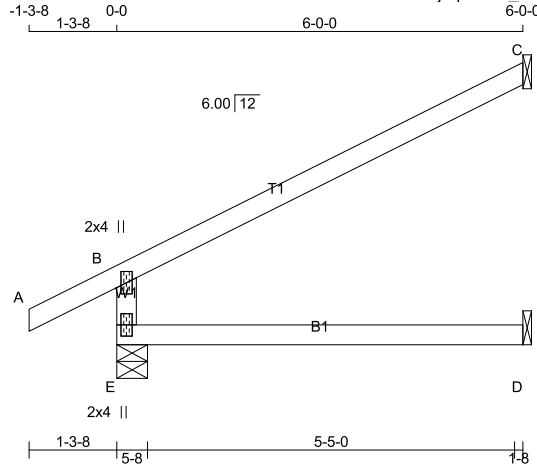
READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





|            |            |          |     |             |           |
|------------|------------|----------|-----|-------------|-----------|
| JOB NAME   | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO.  |
| IM0723-092 | IM0723-092 | 8        | 1   | TRUSS DESC. | MHP 23030 |

PER:   
CHIEF BUILDING OFFICIAL



Scale = 1:34.0

TOTAL WEIGHT = 8 X 17 = 137 lb

**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**

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQRD BRG |
|----|-------------------------|---------------------------------|-----------|-----------|
| JT | VERT                    | HORZ                            | DOWN      | HORZ      |
| E  | 674                     | 0                               | 674       | 0         |
| C  | 269                     | 0                               | 269       | 0         |
| D  | 45                      | 0                               | 45        | 0         |

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

**UNFACTORED REACTIONS**

| JT | 1ST LCASE | MAX./MIN. | COMPONENT REACTIONS |
|----|-----------|-----------|---------------------|
| JT | COMBINED  | SNOW      | LIVE                |
| E  | 468       | 355 / 0   | 0 / 0               |
| C  | 184       | 157 / 0   | 0 / 0               |
| D  | 36        | 0 / 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)

| C H O R D S |                           |                           |         | W E B S  |       |                           |         |
|-------------|---------------------------|---------------------------|---------|----------|-------|---------------------------|---------|
| MEMB.       | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX LC1 | MAX LC2  | MEMB. | MAX. FACTORED FORCE (LBS) | MAX LC1 |
| FR-TO       |                           | FROM TO                   |         |          | FR-TO |                           |         |
| E-B         | -610 / 0                  | 0.0                       | 0.0     | 0.13 (4) | 7.81  |                           |         |
| A-B         | 0 / 36                    | -119.4                    | -119.4  | 0.16 (1) | 10.00 |                           |         |
| B-C         | -40 / 0                   | -119.4                    | -119.4  | 0.73 (1) | 6.25  |                           |         |
| E-D         | 0 / 0                     | -18.2                     | -18.2   | 0.13 (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 (0.03")

CSI: TC=0.73/0.97 (B-C:1), BC=0.13/0.97 (D-E:4), WB=0.00/0.97 (n/a:0), 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) | SHEAR (PLI) | SECTION (PLI) |
|-------|-----------------|-------------|---------------|
|       | MAX             | MIN         | MAX           |
| MT20  | 650             | 371         | 1747          |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.34 (B) (INPUT = 0.90 )  
JSI METAL= 0.25 (B) (INPUT = 1.00 )



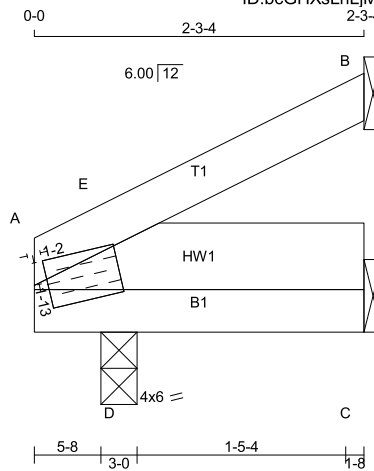
JULY 14, 2023

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|            |            |          |     |             |           |
|------------|------------|----------|-----|-------------|-----------|
| JOB NAME   | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO.  |
| IM0723-092 | IM0723-092 | 3        | 1   | TRUSS DESC. | MHP 23030 |

PER:   
CHIEF BUILDING OFFICIAL



TOTAL WEIGHT = 3 X 10 = 29 lb

| LUMBER                |         |        |  | DESCR. |  |
|-----------------------|---------|--------|--|--------|--|
| N. L. G. A. RULES     | SIZE    | LUMBER |  | SPF    |  |
| CHORDS                |         |        |  |        |  |
| A - B                 | 2x4 DRY | No.2   |  | SPF    |  |
| A - C                 | 2x4 DRY | No.2   |  | SPF    |  |
| REINFORCING MEMBERS   |         |        |  |        |  |
| HW1                   | 2x6 DRY | No.2   |  | SPF    |  |
| DRY: SEASONED LUMBER. |         |        |  |        |  |

**PLATES (table is in inches)**

| JT | TYPE     | PLATES | W   | LEN | Y    | X    |
|----|----------|--------|-----|-----|------|------|
| A  | TMBMW1-m | MT20   | 4.0 | 6.0 | 1.75 | 1.00 |

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

|            | FACTORED<br>GROSS REACTION |      | MAXIMUM FACTORED<br>GROSS REACTION |      |        | INPUT<br>BRG | REQRD<br>BRG |
|------------|----------------------------|------|------------------------------------|------|--------|--------------|--------------|
| JT<br>D(A) | VERT                       | HORZ | DOWN                               | HORZ | UPLIFT | IN-SX        | IN-SX        |
| B          | 218                        | 0    | 218                                | 0    | 0      | 3-0          | 1-8          |
| C          | 81                         | 0    | 81                                 | 0    | 0      | 1-8          | 1-8          |
| B          | 13                         | 0    | 14                                 | 0    | 0      | 1-8          | 1-8          |

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

**UNFACTORED REACTIONS**

| 1ST LCASE | MAX./MIN. COMPONENT REACTIONS |         |       |           |       |        |       |
|-----------|-------------------------------|---------|-------|-----------|-------|--------|-------|
| JT        | COMBINED                      | SNOW    | LIVE  | PERM.LIVE | WIND  | DEAD   | SOIL  |
| D(A)      | 153                           | 110 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 42 / 0 | 0 / 0 |
| B         | 55                            | 47 / 0  | 0 / 0 | 0 / 0     | 0 / 0 | 8 / 0  | 0 / 0 |
| C         | 11                            | 0 / 0   | 0 / 0 | 0 / 0     | 0 / 0 | 10 / 0 | 0 / 0 |

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

**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)

| C H O R D S |                           |                           |          | W E B S              |       |                           |                      |
|-------------|---------------------------|---------------------------|----------|----------------------|-------|---------------------------|----------------------|
| MEMB.       | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX  | MAX. UNBRACED LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH |
| FR-TO       |                           | FROM TO                   |          |                      | FR-TO |                           |                      |
| A-E         | 0 / 29                    | -119.4 -119.4             | 0.04 (1) | 10.00                | D-E   | -192 / 0                  | 0.00 (1)             |
| E-B         | -7 / 0                    | -119.4 -119.4             | 0.03 (1) | 10.00                |       |                           |                      |
| A-D         | 0 / 0                     | -18.2 -18.2               | 0.01 (4) | 10.00                |       |                           |                      |
| D-C         | 0 / 0                     | -18.2 -18.2               | 0.00 (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 CBC 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=0.04/0.97 (A-E:1) , BC=0.01/0.97 (A-D:4) ,  
WB=0.00/0.97 (D-E:1) , SSI=0.08/1.00 (B-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.14 (A) (INPUT = 0.90 )  
JSI METAL= 0.02 (A) (INPUT = 1.00 )



JULY 14, 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.

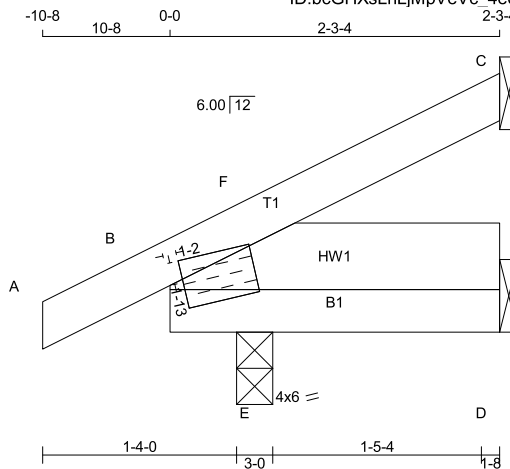




|            |            |          |     |             |           |
|------------|------------|----------|-----|-------------|-----------|
| JOB NAME   | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO.  |
| IM0723-092 | JOBA       | 3        | 1   | TRUSS DESC. | MHP 23030 |

PER:   
CHIEF BUILDING OFFICIAL

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Fri Jul 14 07:33:59 2023 Page 1  
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TOTAL WEIGHT = 3 X 11 = 33 lb

#### LUMBER

|                       |      |        |        |     |  |
|-----------------------|------|--------|--------|-----|--|
| N. L. G. A. RULES     |      |        |        |     |  |
| CHORDS                | SIZE | LUMBER | DESCR. | SPF |  |
| A - C                 | 2x4  | DRY    | No.2   | SPF |  |
| B - D                 | 2x4  | DRY    | No.2   | SPF |  |
| REINFORCING MEMBERS   |      |        |        |     |  |
| HW1                   | 2x6  | DRY    | No.2   | SPF |  |
| DRY: SEASONED LUMBER. |      |        |        |     |  |

#### PLATES (table is in inches)

|         |          |      |     |     |           |
|---------|----------|------|-----|-----|-----------|
| JT TYPE | PLATES   | W    | LEN | Y   | X         |
| B       | TMBMW1-m | MT20 | 4.0 | 6.0 | 1.75 1.00 |

#### 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 |
|------|-------------------------|---------------------------------|-----------|-----------|
|      | VERT                    | HORZ                            | DOWN      | HORZ      |
| JT   | 71                      | 0                               | 71        | 0         |
| C    | 375                     | 0                               | 375       | 0         |
| E(B) | 375                     | 0                               | 375       | 0         |
| D    | -21                     | 0                               | 9         | 0         |

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

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

##### UNFACTORED REACTIONS

|      | 1ST LCASE | MAX./MIN. | COMPONENT REACTIONS |           |       |        |       |
|------|-----------|-----------|---------------------|-----------|-------|--------|-------|
|      | COMBINED  | SNOW      | LIVE                | PERM.LIVE | WIND  | DEAD   | SOIL  |
| JT   | 49        | 42 / -6   | 0 / 0               | 0 / 0     | 0 / 0 | 7 / 0  | 0 / 0 |
| C    | 260       | 202 / 0   | 0 / 0               | 0 / 0     | 0 / 0 | 58 / 0 | 0 / 0 |
| E(B) | -13       | 0 / -20   | 0 / 0               | 0 / 0     | 0 / 0 | 7 / 0  | 0 / 0 |

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

##### 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)

| C H O R D S |                           |                           |                        | W E B S  |                           |                        |  |
|-------------|---------------------------|---------------------------|------------------------|----------|---------------------------|------------------------|--|
| MEMB.       | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED CSI (LC) | MEMB.    | MAX. FACTORED FORCE (LBS) | MAX. FACTORED CSI (LC) |  |
| FR-TO       |                           | FROM                      | TO                     | FR-TO    |                           |                        |  |
| A-B         | 0 / 8                     | -119.4                    | -119.4                 | 0.07 (5) | 10.00                     |                        |  |
| B-F         | 0 / 47                    | -119.4                    | -119.4                 | 0.06 (1) | 10.00                     |                        |  |
| F-C         | -12 / 0                   | -119.4                    | -119.4                 | 0.06 (1) | 6.25                      |                        |  |
| B-E         | 0 / 0                     | -18.2                     | -18.2                  | 0.08 (5) | 10.00                     |                        |  |
| E-D         | 0 / 0                     | -18.2                     | -18.2                  | 0.02 (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

(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=0.07/0.97 (A-B:5) , BC=0.08/0.97 (B-E:5) ,  
WB=0.00/0.97 (E-F:1) , SSI=0.09/1.00 (A-B:5)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

##### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.30 (B) (INPUT = 0.90 )  
JSI METAL= 0.03 (B) (INPUT = 1.00 )



JULY 14, 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.



|            |            |          |     |             |           |
|------------|------------|----------|-----|-------------|-----------|
| JOB NAME   | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO.  |
| IM0723-092 | TRUSS NAME | 1        | 1   | TRUSS DESC. | MHP 23030 |

Oct 30 2023

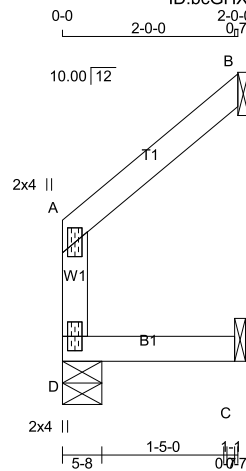
J07

PER:   
CHIEF BUILDING OFFICIAL

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Scale = 1:26.7



TOTAL WEIGHT = 7 lb

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

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQRD BRG |
|----|-------------------------|---------------------------------|-----------|-----------|
| JT | VERT                    | DOWN                            | UPLIFT    | IN-SX     |
| D  | 140                     | 0                               | 0         | 5-8       |
| B  | 113                     | 0                               | 0         | 1-8       |
| C  | 27                      | 0                               | 0         | 1-8       |

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

**UNFACTORED REACTIONS**

| JT | 1ST LCASE | MAX./MIN. | COMPONENT REACTIONS |           |       |        |       |
|----|-----------|-----------|---------------------|-----------|-------|--------|-------|
|    | COMBINED  | SNOW      | LIVE                | PERM.LIVE | WIND  | DEAD   | SOIL  |
| D  | 98        | 71 / 0    | 0 / 0               | 0 / 0     | 0 / 0 | 27 / 0 | 0 / 0 |
| B  | 78        | 65 / 0    | 0 / 0               | 0 / 0     | 0 / 0 | 12 / 0 | 0 / 0 |
| C  | 20        | 6 / 0     | 0 / 0               | 0 / 0     | 0 / 0 | 15 / 0 | 0 / 0 |

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

**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)

| C H O R D S |                           |                           |              | W E B S                    |       |                           |                            |
|-------------|---------------------------|---------------------------|--------------|----------------------------|-------|---------------------------|----------------------------|
| MEMB.       | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX (LC) | MAX. UNBRACED LENGTH FR-TO | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH FR-TO |
| D-A         | -130 / 0                  | 0.0                       | 0.0          | 0.02 (1)                   | 7.81  |                           |                            |
| A-B         | -5 / 0                    | -119.4                    | -119.4       | 0.06 (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=0.06/0.97 (A-B:1) , BC=0.03/0.97 (C-D:1) ,  
 WB=0.00/0.97 (n/a:0) , SSI=0.08/1.00 (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) | SHEAR (PSI) | SECTION (PLI) |
|-------|-----------|-------------|---------------|
| 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= 0.07 (A) (INPUT = 1.00 )



JULY 14, 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.

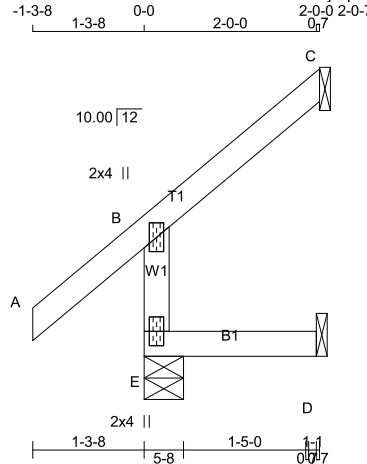


|            |            |          |     |             |           |
|------------|------------|----------|-----|-------------|-----------|
| JOB NAME   | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO.  |
| IM0723-092 | IM0723-092 | 1        | 1   | TRUSS DESC. | MHP 23030 |

PER:   
CHIEF BUILDING OFFICIAL

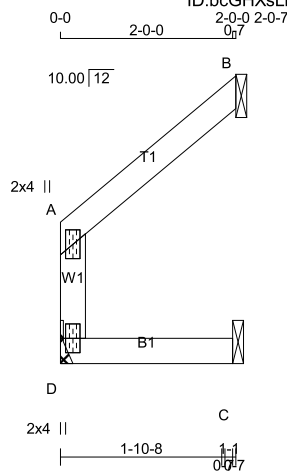
Version 8.630 S Mar 22 2023 Mitek Industries, Inc. Fri Jul 14 07:34:00 2023 Page 1

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| JOB NAME   | TRUSS NAME                | QUANTITY | PLY | JOB DESC.   | DRWG NO.  |
|------------|---------------------------|----------|-----|-------------|-----------|
| IM0723-092 | TRUSS NAME<br>Oct 30 2023 | 1        | 1   | TRUSS DESC. | MHP 23030 |

PER:   
CHIEF BUILDING OFFICIAL



TOTAL WEIGHT = 7 lb

**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 | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQRD BRG  |
|----|-------------------------|---------------------------------|-----------|------------|
|    | VERT                    | DOWN                            | IN-SX     | IN-SX      |
| D  | 140                     | 0                               | 0         | MECHANICAL |
| B  | 113                     | 0                               | 1-8       | 1-8        |
| C  | 27                      | 0                               | 1-8       | 1-8        |

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

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

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. SNOW | LIVE  | PERM.LIVE | WIND  | DEAD   | SOIL  |
|----|--------------------|----------------|-------|-----------|-------|--------|-------|
| D  | 98                 | 71 / 0         | 0 / 0 | 0 / 0     | 0 / 0 | 27 / 0 | 0 / 0 |
| B  | 78                 | 65 / 0         | 0 / 0 | 0 / 0     | 0 / 0 | 12 / 0 | 0 / 0 |
| C  | 20                 | 6 / 0          | 0 / 0 | 0 / 0     | 0 / 0 | 15 / 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)

| MEMB. | CHORDS MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX | CS1 (LC) | UNBRACED LENGTH | MEMB. | WEBS MAX. FACTORED FORCE (LBS) | MAX CS1 (LC) |
|-------|----------------------------------|---------------------------|---------|----------|-----------------|-------|--------------------------------|--------------|
| FR-TO |                                  | FROM                      | TO      |          | FR-TO           |       |                                |              |
| D-A   | -130 / 0                         | 0.0                       | 0.0     | 0.02 (1) | 7.81            |       |                                |              |
| A-B   | -5 / 0                           | -119.4                    | -119.4  | 0.06 (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
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- 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=0.06/0.97 (A-B:1) , BC=0.03/0.97 (C-D:1) ,  
WB=0.00/0.97 (n/a:0) , SSI=0.08/1.00 (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) | SHEAR (PSI) | SECTION (PLI)      |
|-------|-----------|-------------|--------------------|
|       | 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= 0.09 (A) (INPUT = 0.90 )  
JSI METAL= 0.07 (A) (INPUT = 1.00 )



JULY 14, 2023

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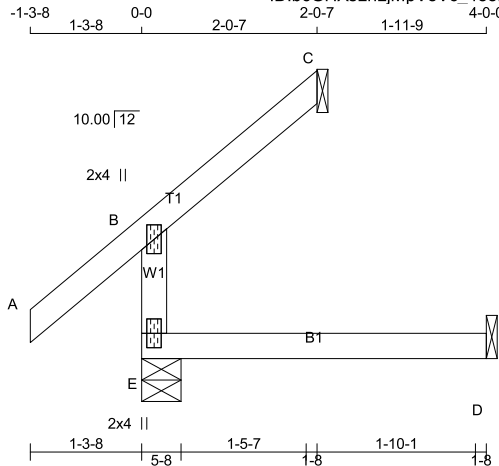
|            |            |          |     |             |           |
|------------|------------|----------|-----|-------------|-----------|
| JOB NAME   | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO.  |
| IM0723-092 | TRUSS NAME | 3        | 1   | TRUSS DESC. | MHP 23030 |

Oct 30 2023

PER:   
CHIEF BUILDING OFFICIAL

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Scale = 1:26.7

TOTAL WEIGHT = 3 X 11 = 33 lb

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

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQRD BRG |
|----|-------------------------|---------------------------------|-----------|-----------|
| JT | VERT                    | HORZ                            | DOWN      | HORZ      |
| E  | 358                     | 0                               | 358       | 0         |
| C  | 92                      | 0                               | 92        | 0         |
| D  | 32                      | 0                               | 36        | 0         |

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

**UNFACTORED REACTIONS**

| JT | 1ST LCASE | MAX./MIN. COMPONENT REACTIONS | WIND  | DEAD   | SOIL  |
|----|-----------|-------------------------------|-------|--------|-------|
| E  | 249       | 185 / 0                       | 0 / 0 | 65 / 0 | 0 / 0 |
| C  | 63        | 54 / 0                        | 0 / 0 | 9 / 0  | 0 / 0 |
| D  | 26        | 0 / 0                         | 0 / 0 | 26 / 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)

| C H O R D S |                           |                           |              | W E B S              |       |                           |               |
|-------------|---------------------------|---------------------------|--------------|----------------------|-------|---------------------------|---------------|
| MEMB.       | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX LC1 (LC) | MAX. UNBRACED LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. LC1 (LC) |
| FR-TO       |                           | FROM                      | TO           |                      | FR-TO |                           |               |
| E-B         | -317 / 0                  | 0.0                       | 0.0          | 0.04 (4)             | 7.81  |                           |               |
| A-B         | 0 / 53                    | -119.4                    | -119.4       | 0.16 (1)             | 10.00 |                           |               |
| B-C         | -19 / 0                   | -119.4                    | -119.4       | 0.08 (1)             | 6.25  |                           |               |
| E-D         | 0 / 0                     | -18.2                     | -18.2        | 0.07 (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=0.16/0.97 (A-B:1) , BC=0.07/0.97 (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) | SHEAR (PLI) | SECTION (PLI) |
|-------|-----------------|-------------|---------------|
|       | MAX             | MIN         | MAX           |
| MT20  | 650             | 371         | 1747          |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.22 (B) (INPUT = 0.90 )  
JSI METAL= 0.17 (B) (INPUT = 1.00 )



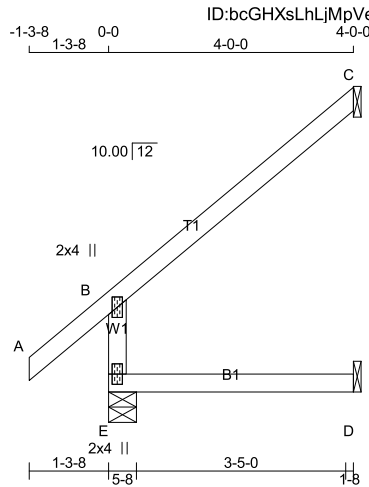
JULY 14, 2023

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|            |                           |          |     |             |           |
|------------|---------------------------|----------|-----|-------------|-----------|
| JOB NAME   | TRUSS NAME                | QUANTITY | PLY | JOB DESC.   | DRWG NO.  |
| IM0723-092 | TRUSS NAME<br>Oct 30 2023 | 16       | 1   | TRUSS DESC. | MHP 23030 |

PER:   
CHIEF BUILDING OFFICIAL



Scale = 1:37.6

TOTAL WEIGHT = 16 X 14 = 225 lb

**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**

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQRD BRG |
|----|-------------------------|---------------------------------|-----------|-----------|
| JT | VERT                    | HORZ                            | DOWN      | HORZ      |
| E  | 505                     | 0                               | 505       | 0         |
| C  | 179                     | 0                               | 179       | 0         |
| D  | 32                      | 0                               | 36        | 0         |

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

**UNFACTORED REACTIONS**

| JT | 1ST LCASE | MAX./MIN. | COMPONENT REACTIONS | SNOW  | LIVE  | PERM.LIVE | WIND  | DEAD   | SOIL  |
|----|-----------|-----------|---------------------|-------|-------|-----------|-------|--------|-------|
| E  | 350       | 270 / 0   | 0 / 0               | 0 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 79 / 0 | 0 / 0 |
| C  | 123       | 105 / 0   | 0 / 0               | 0 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 18 / 0 | 0 / 0 |
| D  | 26        | 0 / 0     | 0 / 0               | 0 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 26 / 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)

| C H O R D S |                           |                           |         | W E B S              |       |                           |                        |
|-------------|---------------------------|---------------------------|---------|----------------------|-------|---------------------------|------------------------|
| MEMB.       | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX | MAX. UNBRACED LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED CSI (LC) |
| FR-TO       |                           | FROM TO                   |         |                      | FR-TO |                           |                        |
| E-B         | -464 / 0                  | 0.0                       | 0.0     | 0.04 (4)             | 7.81  |                           |                        |
| A-B         | 0 / 53                    | -119.4                    | -119.4  | 0.16 (1)             | 10.00 |                           |                        |
| B-C         | -38 / 0                   | -119.4                    | -119.4  | 0.32 (1)             | 6.25  |                           |                        |
| E-D         | 0 / 0                     | -18.2                     | -18.2   | 0.07 (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=0.07/0.97 (D-E:4), WB=0.00/0.97 (n/a:0), SSI=0.18/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**

| PLATE | GRIP(DRY) (PSI) | SHEAR (PLI) | SECTION (PLI)      |
|-------|-----------------|-------------|--------------------|
|       | 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= 0.32 (B) (INPUT = 0.90 )  
JSI METAL= 0.25 (B) (INPUT = 1.00 )



JULY 14, 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.





JOB NAME

TRUSS NAME

IM0723-092

OF PERMIT PLANS

TOTAL WEIGHT = 127 lb

[MIF]

DRWG NO.

MHP 23030

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3-8 0-0

1-3-8

0-0

5-0-7

13-0-7

4-11-3

17-11-9

5-0-7

23-0-0

3-10-12

26-10-12

4-1-4

1-3-8

CHIEF BUILDING OFFICIAL

Scale = 1:50.8

LUMBER

N. L. G. A. RULES

CHORDS SIZE

LUMBER

DESCR.

SPF

ALL WEBS EXCEPT

2x3 DRY No.2 SPF

DRY: SEASONED LUMBER.

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

BEARINGS

FACTORED MAXIMUM FACTORED INPUT REQ'D

GROSS REACTION DOWN UP BRG IN-SX

JT VERT HORZ UPLIFT IN-SX

S 2296 0 2296 0 0 5-8 3-15

K 2296 0 2296 0 0 5-8 3-15

UNFACTORED REACTIONS

1ST LCASE MAX./MIN. COMPONENT REACTIONS

JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL

S 1602 1174 / 0 0 / 0 0 / 0 429 / 0 0 / 0

K 1602 1174 / 0 0 / 0 0 / 0 429 / 0 0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.35 FT.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS

MEMB. FORCE VERT. LOAD LC1 MAX FACTORED (LBS) (PLF) CSI (LC)

FR-TO FROM TO

A-B -2972 / 0 -119.4 -119.4 0.16 (1) 10.00

B-C -2972 / 0 -119.4 -119.4 0.33 (1) 3.74

C-D -2942 / 0 -119.4 -119.4 0.32 (1) 3.77

D-E -3367 / 0 -119.4 -119.4 0.49 (1) 3.35

E-F -3367 / 0 -119.4 -119.4 0.45 (1) 3.40

F-G -3369 / 0 -119.4 -119.4 0.49 (1) 3.35

G-H -2942 / 0 -119.4 -119.4 0.32 (1) 3.77

H-I -2972 / 0 -119.4 -119.4 0.33 (1) 3.74

I-J 0 / 36 -119.4 -119.4 0.16 (1) 10.00

S-B -2256 / 0 0.0 0.0 0.23 (1) 5.60

K-I -2256 / 0 0.0 0.0 0.23 (1) 5.60

S-R 0 / 0 -18.2 -18.2 0.07 (4) 10.00

R-Q 0 / 2678 -18.2 -18.2 0.48 (1) 10.00

Q-P 0 / 2611 -18.2 -18.2 0.47 (1) 10.00

P-O 0 / 3369 -18.2 -18.2 0.59 (1) 10.00

O-N 0 / 3369 -18.2 -18.2 0.59 (1) 10.00

N-M 0 / 2611 -18.2 -18.2 0.47 (1) 10.00

M-L 0 / 2678 -18.2 -18.2 0.48 (1) 10.00

L-K 0 / 0 -18.2 -18.2 0.07 (4) 10.00

WEBS

MEMB. FORCE VERT. LOAD LC1 MAX FACTORED (LBS) CSI (LC)

FR-TO FROM TO

R-C -499 / 0 0.09 (1)

C-Q -86 / 0 0.03 (1)

Q-D 0 / 148 0.04 (4)

D-P 0 / 1051 0.24 (1)

P-E -643 / 0 0.25 (1)

P-F -3 / 0 0.00 (1)

N-F -644 / 0 0.25 (1)

N-G 0 / 1055 0.24 (1)

M-G 0 / 146 0.04 (4)

M-H -87 / 0 0.03 (1)

L-H -499 / 0 0.09 (1)

B-R 0 / 2736 0.62 (1)

L-I 0 / 2736 0.62 (1)

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, NBC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 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 (1.03")

CALCULATED VERT. DEFL.(LL)= L/999 (0.18")

ALLOWABLE DEFL.(TL)= L/360 (1.03")

CALCULATED VERT. DEFL.(TL)= L/999 (0.32")

CSI: TC=0.49/0.97 (D-E:1), BC=0.59/0.97 (N-P:1), WB=0.62/0.97 (I-L:1), SSI=0.28/1.00 (F-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

MAX MIN MAX MIN MAX MIN

MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

JSI METAL= 0.76 (O) (INPUT = 1.00 )

LICENSED PROFESSIONAL ENGINEER

I.MATJUEVIC

100528832

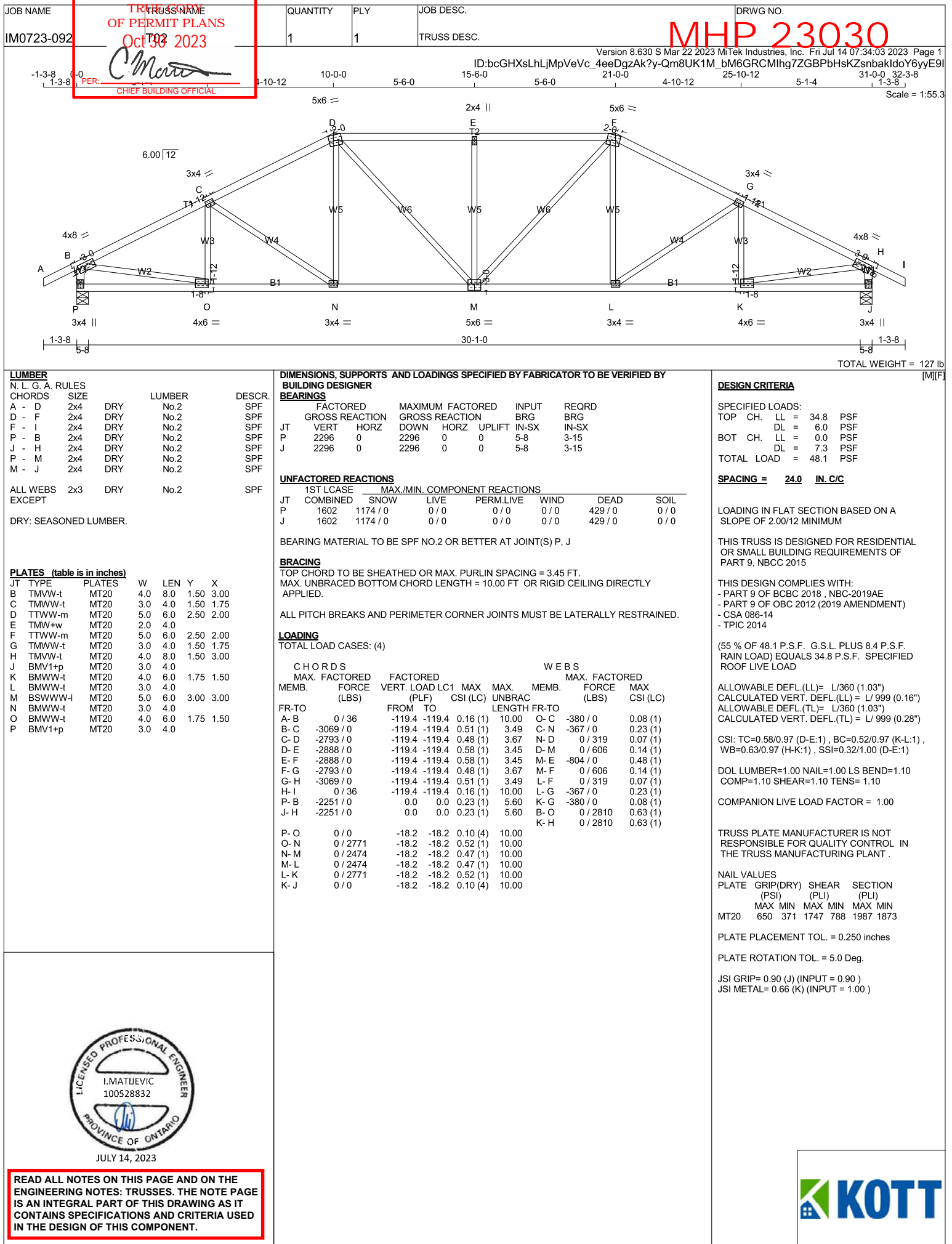
PROVINCE OF ONTARIO

JULY 14, 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.

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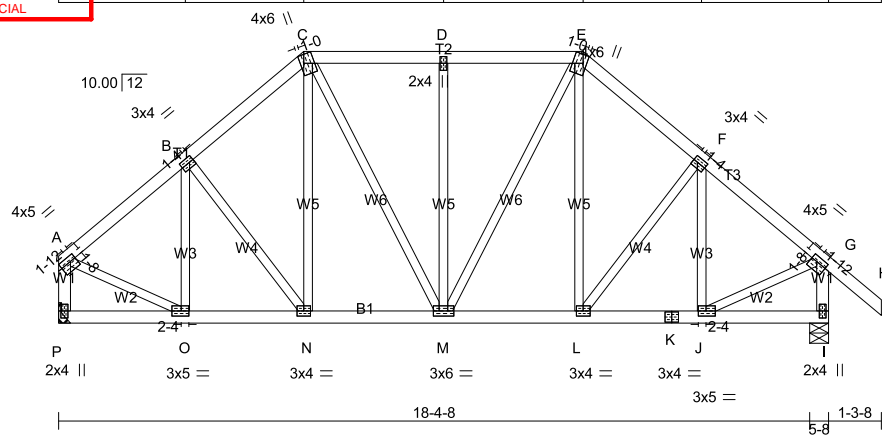




| JOB NAME   | TRUSS NAME   | QUANTITY | PLY | JOB DESC.   | DRWG NO.  |
|------------|--|----------|-----|-------------|-----------|
| IM0723-092 | TRUSS OF PERMIT PLANS<br>Oct 30 2023<br>PER: <br>CHIEF BUILDING OFFICIAL | 1        | 1   | TRUSS DESC. | MHP 23030 |

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Scale = 1:56.4



TOTAL WEIGHT = 96 lb

| LUMBER            |        |      |        |
|-------------------|--------|------|--------|
| N. L. G. A. RULES | CHORDS | SIZE | LUMBER |
| A - C             | 2x4    | DRY  | No.2   |
| C - E             | 2x4    | DRY  | No.2   |
| E - H             | 2x4    | DRY  | No.2   |
| P - A             | 2x4    | DRY  | No.2   |
| I - G             | 2x4    | DRY  | No.2   |
| P - K             | 2x4    | DRY  | No.2   |
| K - I             | 2x4    | DRY  | No.2   |
| ALL WEBS EXCEPT   | 2x3    | DRY  | No.2   |

DRY: SEASONED LUMBER.

| PLATES (table is in inches) |        |        |                   |
|-----------------------------|--------|--------|-------------------|
| JT                          | TYPE   | PLATES | W L E N Y X       |
| A                           | TMVW-t | MT20   | 4.0 5.0 1.50 1.75 |
| B                           | TMVW-t | MT20   | 3.0 4.0 1.50 1.25 |
| C                           | TTWW+m | MT20   | 4.0 6.0 Edge 1.00 |
| D                           | TMVW-t | MT20   | 2.0 4.0           |
| E                           | TTWW+m | MT20   | 4.0 6.0 Edge 1.00 |
| F                           | TMVW-t | MT20   | 3.0 4.0 1.50 1.25 |
| G                           | TMVW-t | MT20   | 4.0 5.0 1.50 1.75 |
| I                           | BMV1+p | MT20   | 2.0 4.0           |
| J                           | BMVW-t | MT20   | 3.0 5.0 1.50 2.25 |
| K                           | BS-t   | MT20   | 3.0 4.0           |
| L                           | BMVW-t | MT20   | 3.0 4.0           |
| M                           | BMVW-t | MT20   | 3.0 6.0           |
| N                           | BMVW-t | MT20   | 3.0 4.0           |
| O                           | BMVW-t | MT20   | 3.0 5.0 1.50 2.25 |
| P                           | BMV1+p | MT20   | 2.0 4.0           |

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

| DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER |                         |                                 |             |
|---|-------------------------|---------------------------------|-------------|
| BEARINGS  |                         |                                 |             |
| JT  | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT REQRD |
|   | VERT                    | HORZ                            | BRG         |
| P   | 1296                    | 0                               | 1296 0 0    |
| I   | 1462                    | 0                               | 1462 0 0    |

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

| UNFACTORED REACTIONS |           |                               |       |
|----------------------|-----------|-------------------------------|-------|
| JT                   | 1ST LCASE | MAX./MIN. COMPONENT REACTIONS |       |
|                      | COMBINED  | SNOW                          | LIVE  |
| P                    | 906       | 656 / 0                       | 0 / 0 |
| I                    | 1019      | 752 / 0                       | 0 / 0 |

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

| BRACING   |  |  |  |
|---|--|--|--|
| TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.76 FT.                      |  |  |  |
| MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED. |  |  |  |

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

| LOADING               |                           |                           |                        |
|-----------------------|---------------------------|---------------------------|------------------------|
| TOTAL LOAD CASES: (4) |                           |                           |                        |
| C H O R D S           |                           |                           |                        |
| MEMB.                 | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED CSI (LC) |
| FR-TO                 |                           |                           |                        |
| A-B                   | -1142 / 0                 | -119.4 -119.4             | 0.14 (1)               |
| B-C                   | -1123 / 0                 | -119.4 -119.4             | 0.14 (1)               |
| C-D                   | -987 / 0                  | -119.4 -119.4             | 0.17 (1)               |
| D-E                   | -987 / 0                  | -119.4 -119.4             | 0.17 (1)               |
| E-F                   | -1123 / 0                 | -119.4 -119.4             | 0.14 (1)               |
| F-G                   | -1142 / 0                 | -119.4 -119.4             | 0.14 (1)               |
| G-H                   | 0 / 53                    | -119.4 -119.4             | 0.16 (1)               |
| P-A                   | -1270 / 0                 | 0.0 0.0                   | 0.14 (1)               |
| I-G                   | -1435 / 0                 | 0.0 0.0                   | 0.15 (1)               |
| P-O                   | 0 / 0                     | -18.2 -18.2               | 0.04 (4)               |
| O-N                   | 0 / 897                   | -18.2 -18.2               | 0.16 (1)               |
| N-M                   | 0 / 841                   | -18.2 -18.2               | 0.16 (1)               |
| M-L                   | 0 / 841                   | -18.2 -18.2               | 0.16 (1)               |
| L-K                   | 0 / 897                   | -18.2 -18.2               | 0.16 (1)               |
| K-J                   | 0 / 897                   | -18.2 -18.2               | 0.16 (1)               |
| J-I                   | 0 / 0                     | -18.2 -18.2               | 0.04 (4)               |

| W E B S |                           |                        |  |
|---------|---------------------------|------------------------|--|
| MEMB.   | MAX. FACTORED FORCE (LBS) | MAX. FACTORED CSI (LC) |  |
| O-B     | -322 / 0                  | 0.09 (1)               |  |
| B-N     | -96 / 0                   | 0.04 (1)               |  |
| N-C     | 0 / 138                   | 0.03 (1)               |  |
| C-M     | 0 / 309                   | 0.07 (1)               |  |
| M-D     | -487 / 0                  | 0.35 (1)               |  |
| D-E     | 0 / 309                   | 0.07 (1)               |  |
| E-F     | 0 / 138                   | 0.03 (1)               |  |
| F-G     | -95 / 0                   | 0.04 (1)               |  |
| G-H     | -323 / 0                  | 0.09 (1)               |  |
| H-I     | 0 / 973                   | 0.22 (1)               |  |
| I-J     | 0 / 973                   | 0.22 (1)               |  |

| 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 (0.63")  
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")  
ALLOWABLE DEFL.(TL) = L/360 (0.63")  
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.04")

CSI: TC=0.17/0.97 (C-D:1) , BC=0.16/0.97 (J-L:1) , WB=0.35/0.97 (D-M:1) , SSI=0.19/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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


NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (M) (INPUT = 0.90 )  
JSI METAL= 0.39 (A) (INPUT = 1.00 )




100528832

PROVINCE OF ONTARIO

JULY 14, 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.





| JOB NAME   | TRUSS NAME   | QUANTITY | PLY | JOB DESC.   | DRWG NO.  |
|------------|--|----------|-----|-------------|-----------|
| IM0723-092 | TRUSS NAME<br>Oct 30 2023<br>PER: <i>CM</i><br>CHIEF BUILDING OFFICIAL | 1        | 1   | TRUSS DESC. | MHP 23030 |

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Scale = 1:70.2

TOTAL WEIGHT = 96 lb [M][F]

| LUMBER  |         |        |        | DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER            |      |  |   | DESIGN CRITERIA  |  |                                    |  |  |  |                                     |  |  |  |  |  |  |
|---|---------|--------|--------|--|------|--|---|--|--|------------------------------------|--|--|--|-------------------------------------|--|--|--|--|--|--|
| N. L. G. A. RULES   |         |        |        | BEARINGS   |      |  |   | SPECIFIED LOADS:   |  |                                    |  |  |  |                                     |  |  |  |  |  |  |
| CHORDS  | SIZE    | LUMBER | DESCR. | FACTORED MAXIMUM FACTORED INPUT REQD   |      |  |   | TOP CH. LL = 34.8 PSF  |  |                                    |  |  |  |                                     |  |  |  |  |  |  |
| A - C   | 2x4     | DRY    | No.2   | GROSS REACTION   |      |  |   | DL = 6.0 PSF   |  |                                    |  |  |  |                                     |  |  |  |  |  |  |
| C - D   | 2x4     | DRY    | No.2   | JT VERT HORZ   |      |  |   | BOT CH. LL = 0.0 PSF   |  |                                    |  |  |  |                                     |  |  |  |  |  |  |
| D - G   | 2x4     | DRY    | No.2   | N 1296 0 1296 0 0 5-8 1-9  |      |  |   | DL = 7.3 PSF   |  |                                    |  |  |  |                                     |  |  |  |  |  |  |
| N - A   | 2x4     | DRY    | No.2   | H 1462 0 1462 0 0 5-8 1-9  |      |  |   | TOTAL LOAD = 48.1 PSF  |  |                                    |  |  |  |                                     |  |  |  |  |  |  |
| H - F   | 2x4     | DRY    | No.2   | A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT N. MINIMUM BEARING LENGTH AT JOINT N = 1-8. |      |  |   | SPACING = 24.0 IN. C/C   |  |                                    |  |  |  |                                     |  |  |  |  |  |  |
| N - J   | 2x4     | DRY    | No.2   |  |      |  |   | LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM  |  |                                    |  |  |  |                                     |  |  |  |  |  |  |
| J - H   | 2x4     | DRY    | No.2   |  |      |  |   | THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015         |  |                                    |  |  |  |                                     |  |  |  |  |  |  |
| ALL WEBS EXCEPT   | 2x3     | DRY    | No.2   |  |      |  |   | THIS DESIGN COMPLIES WITH:   |  |                                    |  |  |  |                                     |  |  |  |  |  |  |
| DRY: SEASONED LUMBER.   |         |        |        | UNFACTORED REACTIONS   |      |  |   | - PART 9 OF CBC 2018, NBC-2019AE   |  |                                    |  |  |  |                                     |  |  |  |  |  |  |
|   |         |        |        | 1ST LCASE MAX./MIN. COMPONENT REACTIONS  |      |  |   | - PART 9 OF OBC 2012 (2019 AMENDMENT)  |  |                                    |  |  |  |                                     |  |  |  |  |  |  |
|   |         |        |        | JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL   |      |  |   | - CSA 086-14   |  |                                    |  |  |  |                                     |  |  |  |  |  |  |
|   |         |        |        | N 906 656 / 0 0 / 0 0 / 0 250 / 0 0 / 0  |      |  |   | - TPIC 2014  |  |                                    |  |  |  |                                     |  |  |  |  |  |  |
|   |         |        |        | H 1019 752 / 0 0 / 0 0 / 0 267 / 0 0 / 0   |      |  |   | (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 |  |                                    |  |  |  |                                     |  |  |  |  |  |  |
|   |         |        |        | BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) H  |      |  |   | ALLOWABLE DEFL.(LL)= L/360 (0.63")   |  |                                    |  |  |  |                                     |  |  |  |  |  |  |
| PLATES (table is in inches)                                       |         |        |        | BRACING  |      |  |   | CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")  |  |                                    |  |  |  |                                     |  |  |  |  |  |  |
| JT TYPE   | PLATES  | W      | LEN    | Y  | X    | TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.54 FT. |   |  |  | ALLOWABLE DEFL.(TL)= L/360 (0.63") |  |  |  |                                     |  |  |  |  |  |  |
| A   | TMVW-t  | MT20   | 4.0    | 5.0  | 1.50 | 1.75   | MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED. |  |  |                                    | CALCULATED VERT. DEFL.(TL) = L/ 999 (0.05")  |  |  |                                     |  |  |  |  |  |  |
| B   | TMWW-t  | MT20   | 3.0    | 4.0  | 1.50 | 1.25   | ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.      |  |  |                                    | CSI: TC=0.26/0.97 (A-B:1) , BC=0.18/0.97 (L-M:1) , WB=0.22/0.97 (A-M:1) , SSI=0.18/1.00 (A-B:1)    |  |  |                                     |  |  |  |  |  |  |
| C   | TTWW+m  | MT20   | 4.0    | 6.0  | Edge | 1.00   | LOADING   |  |  |                                    | DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10   |  |  |                                     |  |  |  |  |  |  |
| D   | TTW+m   | MT20   | 3.0    | 4.0  | 2.00 | 1.25   | TOTAL LOAD CASES: (4)   |  |  |                                    | COMP=1.10 SHEAR=1.10 TENS=1.10   |  |  |                                     |  |  |  |  |  |  |
| E   | TMVW-t  | MT20   | 3.0    | 4.0  | 1.50 | 1.25   | C H O R D S   |  |  |                                    | COMPANION LIVE LOAD FACTOR = 1.00  |  |  |                                     |  |  |  |  |  |  |
| F   | TMVW-t  | MT20   | 4.0    | 5.0  | 1.50 | 1.75   | MEMB. MAX. FACTORED FORCE (LBS)   |  |  |                                    | TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT . |  |  |                                     |  |  |  |  |  |  |
| H   | BMV1+p  | MT20   | 2.0    | 4.0  |      |  | FACTORED  |  |  |                                    | NAIL VALUES  |  |  |                                     |  |  |  |  |  |  |
| I   | BMVW-t  | MT20   | 3.0    | 5.0  | 1.50 | 2.25   | VERT. LOAD LC1 MAX  |  |  |                                    | PLATE GRIP(DRY) SHEAR SECTION  |  |  |                                     |  |  |  |  |  |  |
| J   | BS-t    | MT20   | 3.0    | 4.0  |      |  | PLF) CSI (LC) UNBRAC  |  |  |                                    | (PSI) (PLI) (PLI)  |  |  |                                     |  |  |  |  |  |  |
| K   | BMVWW-t | MT20   | 4.0    | 6.0  |      |  | MAX. FACTORED   |  |  |                                    | MAX MIN MAX MIN MAX MIN  |  |  |                                     |  |  |  |  |  |  |
| L   | BMVW-t  | MT20   | 3.0    | 4.0  |      |  | MEMB. FORCE (LBS) MAX   |  |  |                                    | 650 371 1747 788 1987 1873   |  |  |                                     |  |  |  |  |  |  |
| M   | BMVW-t  | MT20   | 3.0    | 5.0  | 1.50 | 2.25   | W E B S   |  |  |                                    | PLATE PLACEMENT TOL. = 0.250 inches  |  |  |                                     |  |  |  |  |  |  |
| N   | BMV1+p  | MT20   | 2.0    | 4.0  |      |  | MAX. FACTORED   |  |  |                                    | PLATE ROTATION TOL. = 5.0 Deg.   |  |  |                                     |  |  |  |  |  |  |
| Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD. |         |        |        |  |      |  | CSI (LC)  |  |  |                                    |  |  |  | JSI GRIP= 0.90 (D) (INPUT = 0.90 )  |  |  |  |  |  |  |
|   |         |        |        |  |      |  | FR-TO   |  |  |                                    |  |  |  | JSI METAL= 0.41 (F) (INPUT = 1.00 ) |  |  |  |  |  |  |
|   |         |        |        |  |      |  | A-B -1180 / 0   |  |  |                                    |  |  |  |                                     |  |  |  |  |  |  |
|   |         |        |        |  |      |  | B-C -1009 / 0   |  |  |                                    |  |  |  |                                     |  |  |  |  |  |  |
|   |         |        |        |  |      |  | C-D -749 / 0  |  |  |                                    |  |  |  |                                     |  |  |  |  |  |  |
|   |         |        |        |  |      |  | D-E -1011 / 0   |  |  |                                    |  |  |  |                                     |  |  |  |  |  |  |
|   |         |        |        |  |      |  | E-F -1179 / 0   |  |  |                                    |  |  |  |                                     |  |  |  |  |  |  |
|   |         |        |        |  |      |  | F-G 0 / 53  |  |  |                                    |  |  |  |                                     |  |  |  |  |  |  |
|   |         |        |        |  |      |  | N-A -1265 / 0   |  |  |                                    |  |  |  |                                     |  |  |  |  |  |  |
|   |         |        |        |  |      |  | H-F -1429 / 0   |  |  |                                    |  |  |  |                                     |  |  |  |  |  |  |
|   |         |        |        |  |      |  | N-M 0 / 0   |  |  |                                    |  |  |  |                                     |  |  |  |  |  |  |
|   |         |        |        |  |      |  | M-L 0 / 934   |  |  |                                    |  |  |  |                                     |  |  |  |  |  |  |
|   |         |        |        |  |      |  | L-K 0 / 748   |  |  |                                    |  |  |  |                                     |  |  |  |  |  |  |
|   |         |        |        |  |      |  | K-J 0 / 933   |  |  |                                    |  |  |  |                                     |  |  |  |  |  |  |
|   |         |        |        |  |      |  | J-I 0 / 933   |  |  |                                    |  |  |  |                                     |  |  |  |  |  |  |
|   |         |        |        |  |      |  | I-H 0 / 0   |  |  |                                    |  |  |  |                                     |  |  |  |  |  |  |

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.

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