ROOF TRUSSES 18-411388 000 00RR

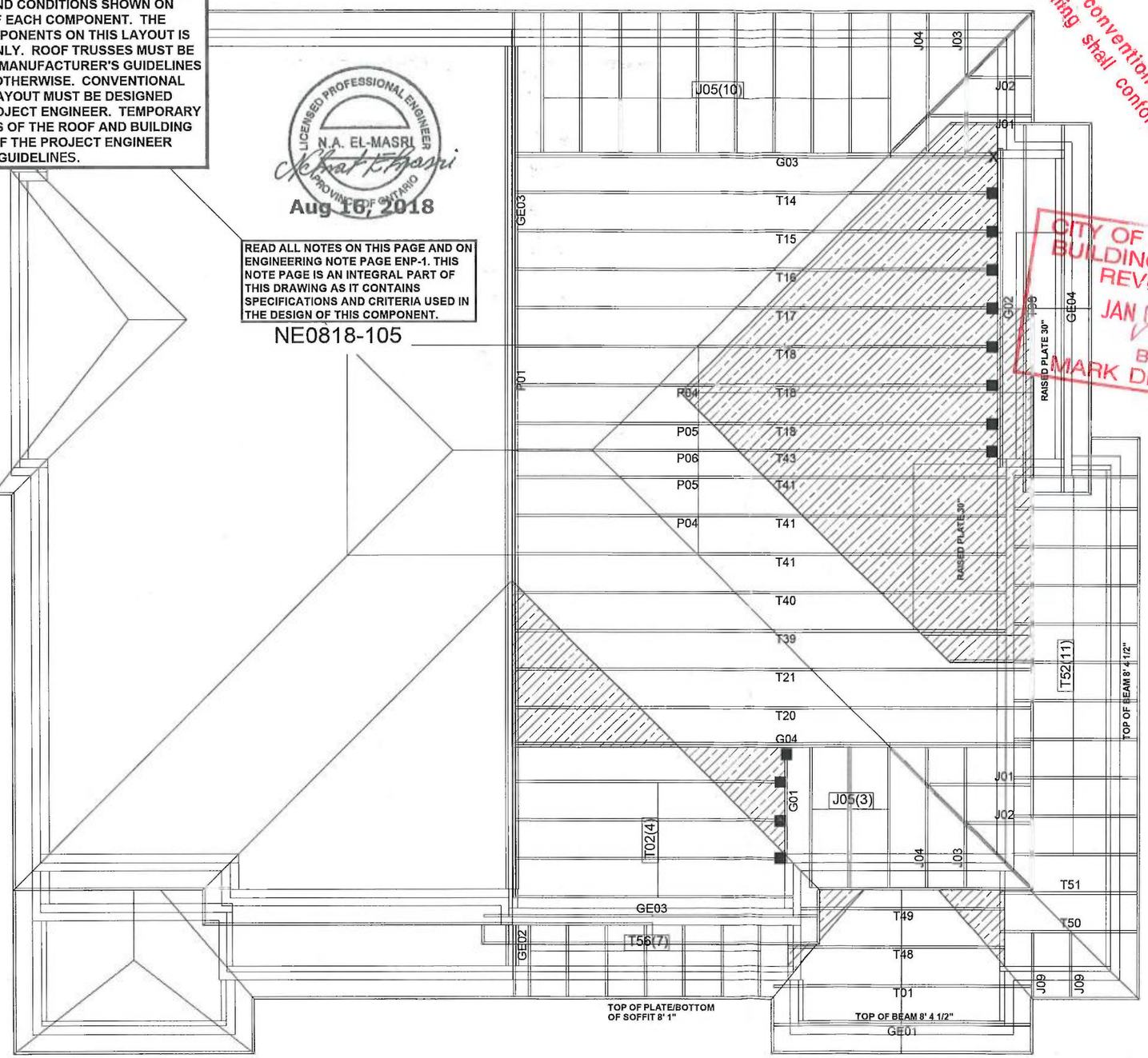


THIS CERTIFICATION IS FOR THE ENGINEERING REVIEW OF STRUCTURAL COMPONENTS SHOWN ON THIS DRAWING AND IS LIMITED TO THE COMPONENTS SUPPLIED BY KOTT LUMBER FOR THE LOADS AND CONDITIONS SHOWN ON THE CALCULATION PAGE OF EACH COMPONENT. THE PLACEMENT OF THESE COMPONENTS ON THIS LAYOUT IS SHOWN FOR REFERENCE ONLY. ROOF TRUSSES MUST BE INSTALLED ACCORDING TO MANUFACTURER'S GUIDELINES AT 24" C/C UNLESS NOTED OTHERWISE. CONVENTIONAL FRAMING SHOWN ON THE LAYOUT MUST BE DESIGNED AND APPROVED BY THE PROJECT ENGINEER. TEMPORARY AND PERMANENT BRACINGS OF THE ROOF AND BUILDING ARE THE RESPONSIBILITY OF THE PROJECT ENGINEER AND TO CONFORM TO BCSI GUIDELINES.

LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
PROVINCE OF ONTARIO
Aug 16, 2018

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

NE0818-105




For conventional wood framing shall conform to OBC.9.23

CITY OF BRAMPTON
BUILDING DIVISION
REVIEWED
JAN 08 2019
BY
MARK DERKSEN

All work shall conform to the Ontario Building Code O. Reg. 332/12 as amended

Architectural Drawing Info:
Date: MAY, 2018
Project number: 18012
Model: HEMLOCK 5C

DESIGN CRITERIA
SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3 PSF
BOT CH. LL = 0 PSF
DL = 7 PSF
TOTAL LOAD = 33.3 PSF

SPACING = 24" O/C.

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

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

## HANGER LEGEND:

▼ LUS24 ■ LJS26DS
● HGUS26 X HGUS26-2

CONVENTIONAL FRAMING BY OTHERS

SIZE AND LOCATION OF CONVENTIONAL FRAMING IS APPROXIMATE. ALL AREAS MAY NOT BE SHOWN. REFER TO ARCHITECTURAL PLANS FOR DETAILS.

ALL CONVENTIONAL FRAMING TO CONFORM WITH PART 9 OF THE O.B.C
ROOF RAFTERS THAT CROSS MEET OVER TRUSSES TO BE 2x4 S.P.F. @ 24"O/C WITH A 2x4 VERTICAL POST TO THE TRUSS UNDERNEATH EACH CROSS POINT. VERTICAL POST LONGER THAN 6' TO HAVE LATERAL BRACING SO THAT THE DISTANCE BETWEEN END POINT AND BETWEEN ROWS OF BRACING DOES NOT EXCEED 6'.

18-411388 000 00RR
LOT 11R

Model: HEMLOCK 5C EL 2
Customer: GREENPARK
Project: MINNISALE HOMES
Location: BRAMPTON
Date: 6/25/2018 Drawn by: BB

KOTT

ENGINEERING NOTE PAGE (ENP-1)

**PLEASE READ PRIOR TO INSTALLATION**

HEMLOCK 5C - FL. 2 - Lot 11R

## *RESPONSIBILITIES*

THIS DESIGN IS FOR AN INDIVIDUAL BUILDING COMPONENT AND HAS BEEN BASED ON INFORMATION PROVIDED BY THE DESIGN OFFICE OF KOTT LUMBER. THE UNDERSIGNED ENGINEER DISCLAIMS ANY RESPONSIBILITY FOR DAMAGES AS A RESULT OF FAULTY OR INCORRECT INFORMATION, SPECIFICATION AND/OR DESIGNS FURNISHED TO THE ENGINEER. THE UNDERSIGNED ENGINEER IS ONLY RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF THIS BUILDING COMPONENT FOR THE CONDITIONS AND LOADS SHOWN ON THIS DRAWING. THE STRUCTURAL INTEGRITY OF THE BUILDING AND THE VERIFICATION OF THE DIMENSIONS AND THE DESIGN LOADS USED ARE THE RESPONSIBILITY OF THE BUILDING DESIGNER.

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

IT IS THE RESPONSIBILITY OF KOTT LUMBER 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.

### *USE AND OCCUPANCY*

- The building is of the type indicated on the drawing

### *LOADING*

- 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 metres (16 ft) whichever is greater, unless the drawing indicates that the snow drifting has been taken into account

### *HANDLING, INSTALLATION AND BRACING*

- 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
- The compression chords are laterally braced by continuous rigid diaphragm sheathing or as specified on the drawing
- 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
- **It is recommended that a Professional Engineer's advice be obtained for the bracing of trusses spanning more than 12.37m (40'-7")**

### *SUPPORTS*

- 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.

### *DIMENSIONS*

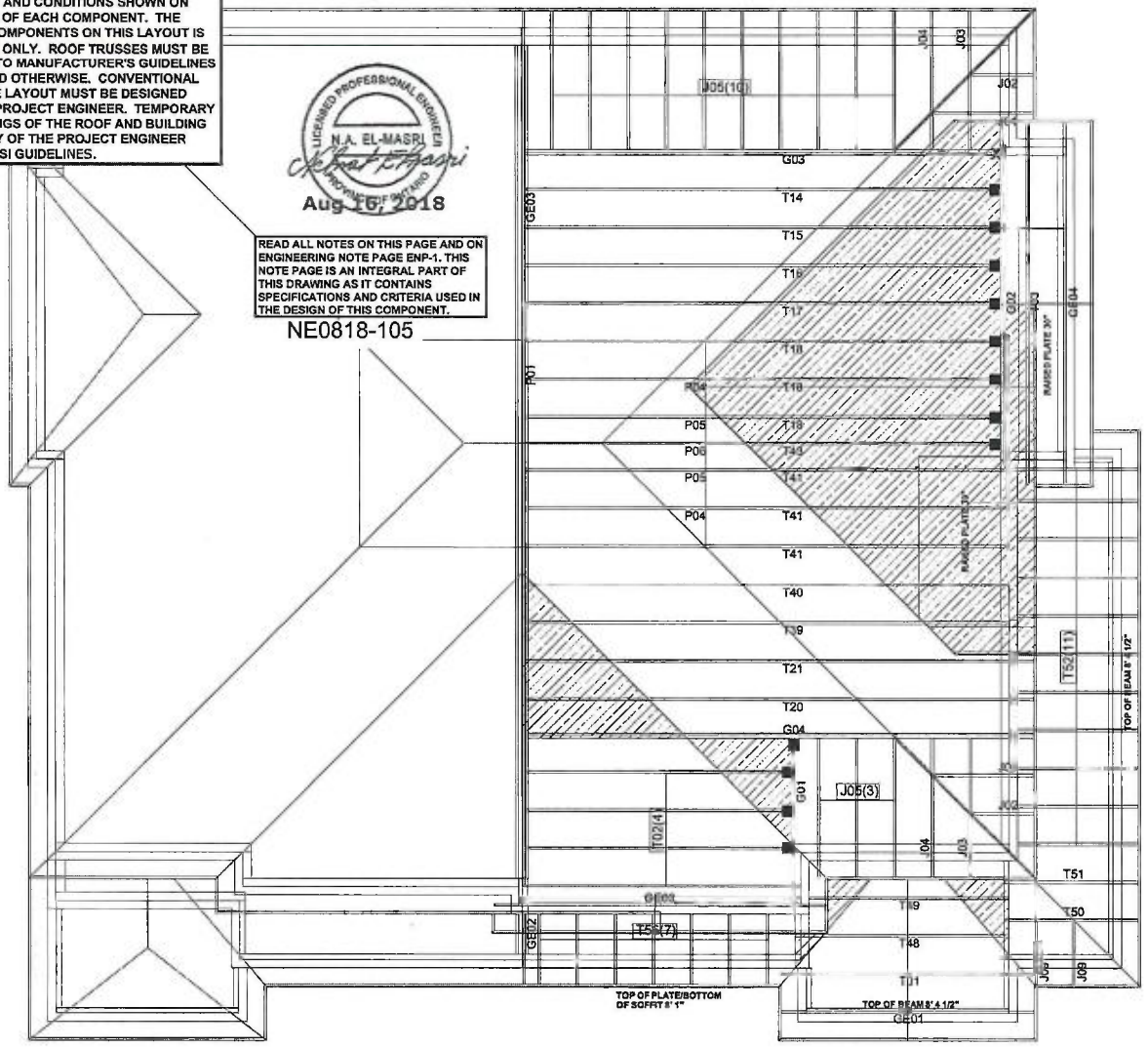
- Geometry of the truss and dimensions indicated on the drawing are identical to those of the installed truss.

THIS CERTIFICATION IS FOR THE ENGINEERING REVIEW OF STRUCTURAL COMPONENTS SHOWN ON THIS DRAWING AND IS LIMITED TO THE COMPONENTS SUPPLIED BY KOTT LUMBER FOR THE LOADS AND CONDITIONS SHOWN ON THE CALCULATION PAGE OF EACH COMPONENT. THE PLACEMENT OF THESE COMPONENTS ON THIS LAYOUT IS SHOWN FOR REFERENCE ONLY. ROOF TRUSSES MUST BE INSTALLED ACCORDING TO MANUFACTURER'S GUIDELINES AT 24" C/C UNLESS NOTED OTHERWISE. CONVENTIONAL FRAMING SHOWN ON THE LAYOUT MUST BE DESIGNED AND APPROVED BY THE PROJECT ENGINEER. TEMPORARY AND PERMANENT BRACINGS OF THE ROOF AND BUILDING ARE THE RESPONSIBILITY OF THE PROJECT ENGINEER AND TO CONFORM TO BCSI GUIDELINES.

LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
PROVINCE OF ONTARIO
Aug 16, 2018

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

NE0818-105




Architectural Drawing Info:
Date: MAY, 2018
Project number: 18012
Model: HEMLOCK 5C

KOTT

DESIGN CRITERIA
SPECIFIED LOADS:
TOP CH. LL = 33.3 PSF
DL = 3 PSF
BOT CH. LL = 0 PSF
DL = 7 PSF
TOTAL LOAD = 33.3 PSF

SPACING = 24" O/C.

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

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

## HANGER LEGEND:

▼ LUS24 ■ LJS26DS
● HGUS26 X HGUS26-2

CONVENTIONAL FRAMING BY OTHERS

SIZE AND LOCATION OF CONVENTIONAL FRAMING IS APPROXIMATE. ALL AREAS MAY NOT BE SHOWN. REFER TO ARCHITECTURAL PLANS FOR DETAILS.

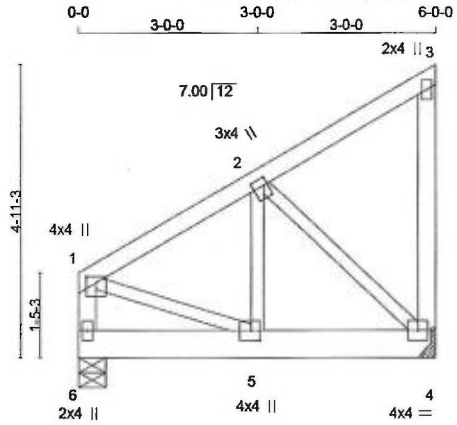
ALL CONVENTIONAL FRAMING TO CONFORM WITH PART 9 OF THE O.B.C.
ROOF RAFTERS THAT CROSS MEET OVER TRUSSES TO BE 2x4 S.P.F. @ 24"O/C WITH A 2x4 VERTICAL POST TO THE TRUSS UNDERNEATH EACH CROSS POINT. VERTICAL POST LONGER THAN 6' TO HAVE LATERAL BRACING SO THAT THE DISTANCE BETWEEN END POINT AND BETWEEN ROWS OF BRACING DOES NOT EXCEED 6'.

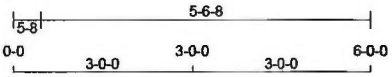
Model: **HEMLOCK 5C EL 2**
Customer: GREENPARK
Project: MINNISALE HOMES
Location: BRAMPTON
Date: 6/25/2018 Drawn by: BB

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | DRWG NO. |
|---|---|---|---|---|---|
| NE0818-105 | G01 | 1 | 1 | GREENPARK-MINNISALE HOMES-HEMLOCK 5C EL 2 TRUSS DESC. | PAGE 3 OF 49 |

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Thu Aug 16 18:08:02 2018 Page 1
ID:bWeJhNa3z9S0pbNXDmof4Dz3iPU-VUeMjjdzmWTXDpx8H51hHnS6BfWwwDWHEWvzVxynCmx

Scale = 1:37.0




TOTAL WEIGHT = 32 lb [M]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 6 - 1 | 2x4 | DRY | No.2 | SPF |
| 1 - 3 | 2x4 | DRY | No.2 | SPF |
| 4 - 3 | 2x4 | DRY | No.2 | SPF |
| 6 - 4 | 2x6 | 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 |
|---|---|---|---|---|---|---|
| 1 | TMVW+p | MT20 | 4.0 | 4.0 | 1.25 | 2.00 |
| 2 | TMWW+t | MT20 | 3.0 | 4.0 | 1.50 | 0.75 |
| 3 | TMV+p | MT20 | 2.0 | 4.0 | | |
| 4 | BMVW1-t | MT20 | 4.0 | 4.0 | | |
| 5 | BMWW+t | MT20 | 4.0 | 4.0 | 2.00 | 1.75 |
| 6 | 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 |
|---|---|---|---|---|---|---|---|
| 6 | 1106 | 0 | 1106 | 0 | 0 | 5-8 | 5-8 |
| 4 | 1106 | 0 | 1106 | 0 | 0 | MECHANICAL | |

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 4 TO RESIST THE MAX FACTORED REACTIONS.

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| 6 | 776 | 543 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 233 / 0 | 0 / 0 |
| 4 | 776 | 543 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 233 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 6

**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) |
|---|---|---|---|---|---|---|---|---|
| 6- 1 | -744 / 0 | 0.0 | 0.0 | 0.08 (1) | 7.81 | 1- 5 | 0 / 743 | 0.18 (1) |
| 1- 2 | -801 / 0 | -77.4 | -77.4 | 0.12 (1) | 6.25 | 5- 2 | 0 / 781 | 0.19 (1) |
| 2- 3 | -12 / 0 | -77.4 | -77.4 | 0.11 (1) | 6.25 | 2- 4 | -958 / 0 | 0.26 (1) |
| 4- 3 | -92 / 0 | 0.0 | 0.0 | 0.03 (1) | 7.81 | | | |
| 6- 5 | 0 / 0 | -291.2 | -291.2 | 0.17 (1) | 10.00 | | | |
| 5- 4 | 0 / 703 | -291.2 | -291.2 | 0.26 (1) | 10.00 | | | |

**DESIGN CRITERIA**

SPECIFIED LOADS:

| | | | | |
|---|---|---|---|---|
| TOP CH. | LL | = | 23.3 | PSF |
| | DL | = | 3.0 | PSF |
| BOT CH. | LL | = | 0.0 | PSF |
| | DL | = | 7.0 | PSF |
| TOTAL LOAD | | = | 33.3 | PSF |

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

GIRDER TYPE: CStdGirder
START DISTANCE = 0-0
START SPAN CARRIED = 14-0-0
END DISTANCE = 6-0-0
END SPAN CARRIED = 14-0-0
END WALL WIDTH = 5-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDT'L LOADS BASED ON 55 % OF GSL.

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.20")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.02")

CSI: TC=0.12/1.00 (1-2:1) , BC=0.26/1.00 (4-5:1) , WB=0.26/1.00 (2-4:1) , SSI=0.34/1.00 (5-6:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

CONTINUED ON PAGE 2

LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
PROVINCE OF ONTARIO
Aug 16, 2018

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

KOTT

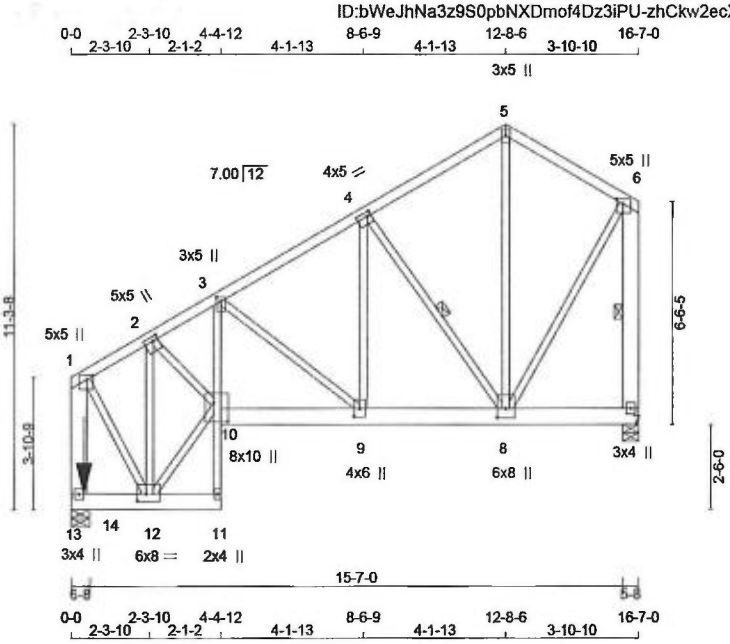
JSI GRIP= 0.90 (5) (INPUT = 0.90 )
JSI METAL= 0.31 (2) (INPUT = 1.00 )

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS 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. | GREENPARK-MINNISALE HOMES-HEMLOCK 5C EL 2 | DRWG NO. |
|---|---|---|---|---|---|---|
| NE0818-105 | G02 | 1 | 2 | TRUSS DESC. | | **PAGE 5 OF 49** |

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Thu Aug 16 18:08:03 2018 Page 1
ID:bWeJhNa3z9S0pbNXDmof4Dz3iPU-zhCkw2ecXqbOrzWKroYwq?_CU3mOfVLQSAfW2NynCmv




Scale: 3/16"=1'

TOTAL WEIGHT = 2 X 111 = 223 lb (M)

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 1 - 5 | 2x4 | DRY | No.2 | SPF |
| 5 - 6 | 2x4 | DRY | No.2 | SPF |
| 13 - 1 | 2x6 | DRY | No.2 | SPF |
| 7 - 6 | 2x6 | DRY | No.2 | SPF |
| 13 - 11 | 2x6 | DRY | No.2 | SPF |
| 11 - 3 | 2x3 | DRY | No.2 | SPF |
| 10 - 7 | 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 | | | |
| 1- 5 | 1 | 12 | TOP |
| 5- 6 | 1 | 12 | TOP |
| 13- 1 | 2 | 12 | TOP |
| 7- 6 | 2 | 12 | TOP |
| BOTTOM CHORDS : (0.122"X3") SPIRAL NAILS | | | |
| 13- 11 | 2 | 9 | SIDE(271.2) |
| 10- 7 | 2 | 9 | SIDE(271.2) |
| 11- 3 | 1 | 12 | TOP |
| 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 ON THE OPPOSITE SIDE OR ON THE TOP.


**READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS 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 |
|---|---|---|---|---|---|---|---|
| 13 | 7172 | 0 | 7172 | 0 | 0 | 6-8 | 6-8 |
| 7 | 5331 | 0 | 5331 | 0 | 0 | 5-8 | 5-8 |

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| | MAX./MIN. COMPONENT REACTIONS | | | | | | |
| 13 | 5033 | 3521 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 1512 / 0 | 0 / 0 |
| 7 | 3742 | 2618 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 1124 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 13, 7

**BRACING**
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.68 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 4-8. DBS = 8-0-0 . CBF = 166 LBS.
1 - 1x4 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 6-7. DBS = 6-0-0 . CBF = 167 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 | LC1 CSI (LC) | MAX. UNBRAC LENGTH | WEBS MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
|---|---|---|---|---|---|---|---|---|
| 1- 2 | -2767 / 0 | -77.4 | -77.4 | 0.13 (1) | 5.36 | 12- 2 | -5050 / 0 | 0.99 (1) |
| 2- 3 | -6414 / 0 | -77.4 | -77.4 | 0.24 (1) | 3.68 | 12-10 | 0 / 4119 | 0.51 (1) |
| 3- 4 | -4492 / 0 | -77.4 | -77.4 | 0.20 (1) | 4.38 | 2-10 | 0 / 4498 | 0.56 (1) |
| 4- 5 | -2329 / 0 | -77.4 | -77.4 | 0.13 (1) | 5.74 | 3- 9 | -2200 / 0 | 0.56 (1) |
| 5- 6 | -2313 / 0 | -77.4 | -77.4 | 0.13 (1) | 5.75 | 9- 4 | 0 / 3443 | 0.43 (1) |
| 13- 1 | -5105 / 0 | 0.0 | 0.0 | 0.40 (1) | 6.45 | 4- 8 | -3318 / 0 | 0.60 (1) |
| 7- 6 | -4466 / 0 | 0.0 | 0.0 | 0.30 (1) | 5.44 | 8- 5 | 0 / 2053 | 0.25 (1) |
| | | | | | | 1-12 | 0 / 4288 | 0.53 (1) |
| 13-14 | 0 / 0 | -17.5 | -17.5 | 0.29 (1) | 10.00 | 8- 6 | 0 / 3731 | 0.46 (1) |
| 14-12 | 0 / 0 | -560.0 | -560.0 | 0.29 (1) | 10.00 | | | |
| 12-11 | 0 / 20 | -560.0 | -560.0 | 0.15 (1) | 10.00 | | | |
| 11-10 | 0 / 355 | 0.0 | 0.0 | 0.13 (1) | 10.00 | | | |
| 10- 3 | 0 / 2082 | 0.0 | 0.0 | 0.34 (1) | 10.00 | | | |
| 10- 9 | 0 / 5598 | -560.0 | -560.0 | 0.69 (1) | 10.00 | | | |
| 9- 8 | 0 / 3892 | -560.0 | -560.0 | 0.57 (1) | 10.00 | | | |
| 8- 7 | 0 / 0 | -560.0 | -560.0 | 0.32 (1) | 10.00 | | | |

FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC. | LC1 | MAX- | MAX+ | FACE | DIR. | TYPE |
|---|---|---|---|---|---|---|---|
| 14 | 4-9 | -2140 | -2140 | --- | FRONT | VERT | TOTAL |

**DESIGN CRITERIA**

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

SPECIFIED LOADS:

| | | | | |
|---|---|---|---|---|
| TOP CH. | LL | = | 23.3 | PSF |
| | DL | = | 3.0 | PSF |
| BOT CH. | LL | = | 0.0 | PSF |
| | DL | = | 7.0 | PSF |
| TOTAL LOAD | | = | 33.3 | PSF |

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

GIRDER TYPE: CStdGirder
START DISTANCE = 4-9
START SPAN CARRIED = 25-0-0
END DISTANCE = 16-7-0
END SPAN CARRIED = 25-0-0
END WALL WIDTH = 1-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDT'L LOADS BASED ON 55 % OF GSL.

*** 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 2010

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.55")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.10")
ALLOWABLE DEFL.(TL)= L/360 (0.55")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.18")

CSI: TC=0.40/1.00 (1-13:1) , BC=0.69/1.00 (9-10:1) , WB=0.99/1.00 (2-12:1) , SSI=0.69/1.00 (12-13:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

CONTINUED ON PAGE 2

KOTT

**PLATES (table is in inches)**

| JT | TYPE | PLATES | W | LEN | Y | X |
|---|---|---|---|---|---|---|
| 1 | TMVW+p | MT20 | 5.0 | 5.0 | 1.50 | 2.25 |
| 2 | TMWW+t | MT20 | 5.0 | 5.0 | 1.50 | 1.75 |
| 3 | TMVW+p | MT20 | 3.0 | 5.0 | 1.50 | 1.50 |
| 4 | TMWW-t | MT20 | 4.0 | 5.0 | 1.50 | 1.25 |
| 5 | TTW+p | MT20 | 3.0 | 5.0 | | |
| 6 | TMVW+p | MT20 | 5.0 | 5.0 | 1.75 | 2.25 |
| 7 | BMV1+p | MT20 | 3.0 | 4.0 | | |
| 8 | BMWWW+t | MT20 | 6.0 | 8.0 | 3.25 | 3.00 |
| 9 | BMWW+t | MT20 | 4.0 | 6.0 | 2.75 | 2.00 |
| 10 | BVMWW+p | MT20 | 8.0 | 10.0 | 6.75 | 5.00 |
| 11 | BMV+p | MT20 | 2.0 | 4.0 | | |
| 12 | BMWWW-t | MT20 | 6.0 | 8.0 | 2.50 | 3.00 |
| 13 | BMV1+p | MT20 | 3.0 | 4.0 | | |

**HANGERS NOTES**

1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 2140.2 lbs FACTORED DOWN AT 4-9 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

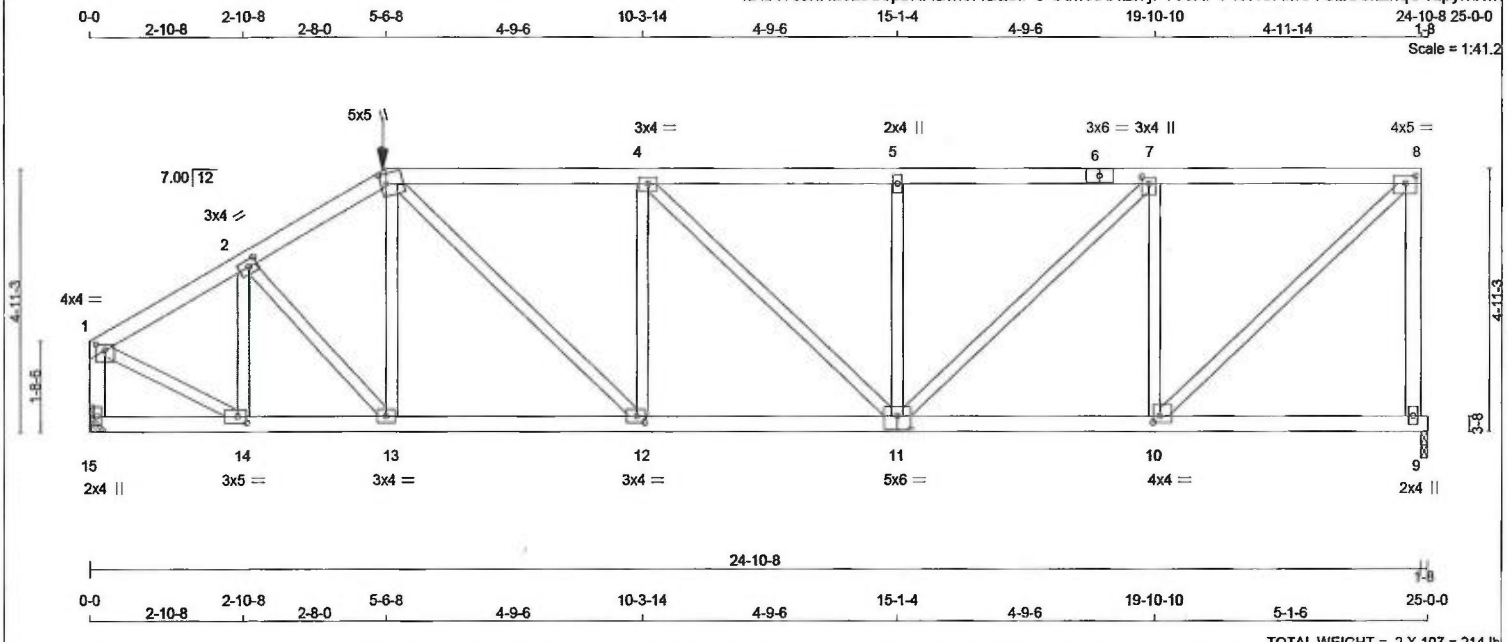
JSI GRIP= 0.90 (8) (INPUT = 0.90 )
JSI METAL= 0.51 (2) (INPUT = 1.00 )

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS 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. | GREENPARK-MINNISALE HOMES-HEMLOCK 5C EL 2 | DRWG NO. |
|---|---|---|---|---|---|---|
| NE0818-105 | G03 | 1 | 2 | TRUSS DESC. | | **PAGE 7 OF 49** |

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Thu Aug 16 18:08:04 2018 Page 1
ID:bWeJhNa3z9S0pbNXDmof4Dz3iPU-Stm68OfEI7jFT65XPV49NCXMUTCZO6kZhqO4apynCmv




TOTAL WEIGHT = 2 X 107 = 214 lb [M]

**LUMBER**

N. L. G. A. RULES

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 1 - 3 | 2x4 | DRY | No.2 | SPF |
| 3 - 6 | 2x4 | DRY | No.2 | SPF |
| 6 - 8 | 2x4 | DRY | No.2 | SPF |
| 9 - 8 | 2x4 | DRY | No.2 | SPF |
| 15 - 1 | 2x4 | DRY | No.2 | SPF |
| 15 - 11 | 2x4 | DRY | No.2 | SPF |
| 11 - 9 | 2x4 | 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 | | | |
| 1- 3 | 1 | 12 | SIDE(0.0) |
| 3- 6 | 1 | 12 | SIDE(34.2) |
| 6- 8 | 1 | 12 | SIDE(34.2) |
| 8- 9 | 1 | 12 | TOP |
| 15- 1 | 1 | 12 | TOP |
| BOTTOM CHORDS : (0.122"X3") SPIRAL NAILS | | | |
| 15- 11 | 1 | 12 | SIDE(8.7) |
| 11- 9 | 1 | 12 | SIDE(8.7) |
| 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.


**READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS 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 | REQRD |
|---|---|---|---|---|---|---|---|
| JT | VERT | HORZ | DOWN | HORZ | UPLIFT | BRG | BRG |
| 9 | 2254 | 0 | 2254 | 0 | 0 | 1-8 | 1-8 |
| 15 | 2137 | 0 | 2137 | 0 | 0 | MECHANICAL | |

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 15 TO RESIST THE MAX FACTORED REACTIONS.

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| 9 | 1581 | 1110 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 471 / 0 | 0 / 0 |
| 15 | 1502 | 1040 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 462 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 9

**BRACING**

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.93 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 | LC | MAX CSI (LC) | MAX. UNBRAC LENGTH |
|---|---|---|---|---|---|---|
| 1- 2 | -2163 / 0 | -77.4 | -77.4 | 0.06 (1) | 5.99 | |
| 2- 3 | -2573 / 0 | -77.4 | -77.4 | 0.06 (1) | 5.61 | |
| 3- 4 | -3071 / 0 | -145.9 | -145.9 | 0.31 (1) | 4.93 | |
| 4- 5 | -2960 / 0 | -145.9 | -145.9 | 0.31 (1) | 5.01 | |
| 5- 6 | -2960 / 0 | -145.9 | -145.9 | 0.33 (1) | 4.98 | |
| 6- 7 | -2960 / 0 | -145.9 | -145.9 | 0.33 (1) | 4.98 | |
| 7- 8 | -2037 / 0 | -145.9 | -145.9 | 0.30 (1) | 5.79 | |
| 9- 8 | -2186 / 0 | 0.0 | 0.0 | 0.45 (1) | 7.53 | |
| 15- 1 | -2090 / 0 | 0.0 | 0.0 | 0.12 (1) | 7.66 | |
| 15-14 | 0 / 0 | -33.0 | -33.0 | 0.03 (4) | 10.00 | |
| 14-13 | 0 / 1876 | -33.0 | -33.0 | 0.20 (1) | 10.00 | |
| 13-12 | 0 / 2204 | -33.0 | -33.0 | 0.23 (1) | 10.00 | |
| 12-11 | 0 / 3071 | -33.0 | -33.0 | 0.31 (1) | 10.00 | |
| 11-10 | 0 / 2037 | -33.0 | -33.0 | 0.23 (1) | 10.00 | |
| 10- 9 | 0 / 0 | -33.0 | -33.0 | 0.10 (4) | 10.00 | |

| WEBS MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
|---|---|---|
| 14- 2 | -825 / 0 | 0.09 (1) |
| 2-13 | 0 / 496 | 0.06 (1) |
| 13- 3 | -230 / 53 | 0.04 (1) |
| 3-12 | 0 / 1206 | 0.15 (1) |
| 12- 4 | -679 / 0 | 0.13 (1) |
| 4-11 | -154 / 0 | 0.06 (1) |
| 11- 5 | -642 / 0 | 0.12 (1) |
| 11- 7 | 0 / 1287 | 0.16 (1) |
| 10- 7 | -1711 / 0 | 0.32 (1) |
| 10- 8 | 0 / 2782 | 0.34 (1) |
| 1-14 | 0 / 2082 | 0.26 (1) |

FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC. | LC1 | MAX- | MAX+ | FACE | DIR. | TYPE |
|---|---|---|---|---|---|---|---|
| 3 | 5-6-8 | -322 | -322 | — | FRONT | VERT | TOTAL |

**DESIGN CRITERIA**

SPECIFIED LOADS:

| | | | | |
|---|---|---|---|---|
| TOP CH. | LL | = | 23.3 | PSF |
| | DL | = | 3.0 | PSF |
| BOT CH. | LL | = | 0.0 | PSF |
| | DL | = | 7.0 | PSF |
| TOTAL LOAD | | = | 33.3 | PSF |

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

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

GIRDER TYPE: CPrimeHip
LEFT SETBACK = 5-6-8
RIGHT SETBACK = 0-0
END SETBACK = 6-0-0
END WALL WIDTH = 5-8
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: CONVENTIONAL
APPLIED TO FRONT SIDE
- ADDT'L LOADS BASED ON 55 % OF GSL.

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.83")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.83")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.12")

CSI: TC=0.45/1.00 (8-9:1) , BC=0.31/1.00 (11-12:1) , WB=0.34/1.00 (8-10:1) , SSI=0.19/1.00 (7-8:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

CONTINUED ON PAGE 2

KOTT

**PLATES (table is in Inches)**

| JT | TYPE | PLATES | W | LEN | Y | X |
|---|---|---|---|---|---|---|
| 1 | TMVW-p | MT20 | 4.0 | 4.0 | 1.25 | 2.00 |
| 2 | TMWW-t | MT20 | 3.0 | 4.0 | 1.50 | 1.75 |
| 3 | TTWW+m | MT20 | 5.0 | 5.0 | 2.25 | 1.25 |
| 4 | TMWW-t | MT20 | 3.0 | 4.0 | | |
| 5 | TMW+w | MT20 | 2.0 | 4.0 | | |
| 6 | TS-t | MT20 | 3.0 | 6.0 | | |
| 7 | TMWW+t | MT20 | 3.0 | 4.0 | 1.50 | 1.50 |
| 8 | TMVW-t | MT20 | 4.0 | 5.0 | 1.75 | 2.25 |
| 9 | BMV1+p | MT20 | 2.0 | 4.0 | | |
| 10 | BMWW-t | MT20 | 4.0 | 4.0 | 1.50 | 1.50 |
| 11 | BSWWW-t | MT20 | 5.0 | 6.0 | 3.00 | 3.00 |
| 12 | BMWW-t | MT20 | 3.0 | 4.0 | 1.50 | 1.75 |
| 13 | BMWW-t | MT20 | 3.0 | 4.0 | | |
| 14 | BMWW-t | MT20 | 3.0 | 5.0 | 1.50 | 2.00 |
| 15 | BMV1+p | MT20 | 2.0 | 4.0 | | |

**HANGERS NOTES**

1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 321.5 lbs FACTORED DOWN AT 5-6-8 ON TOP CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

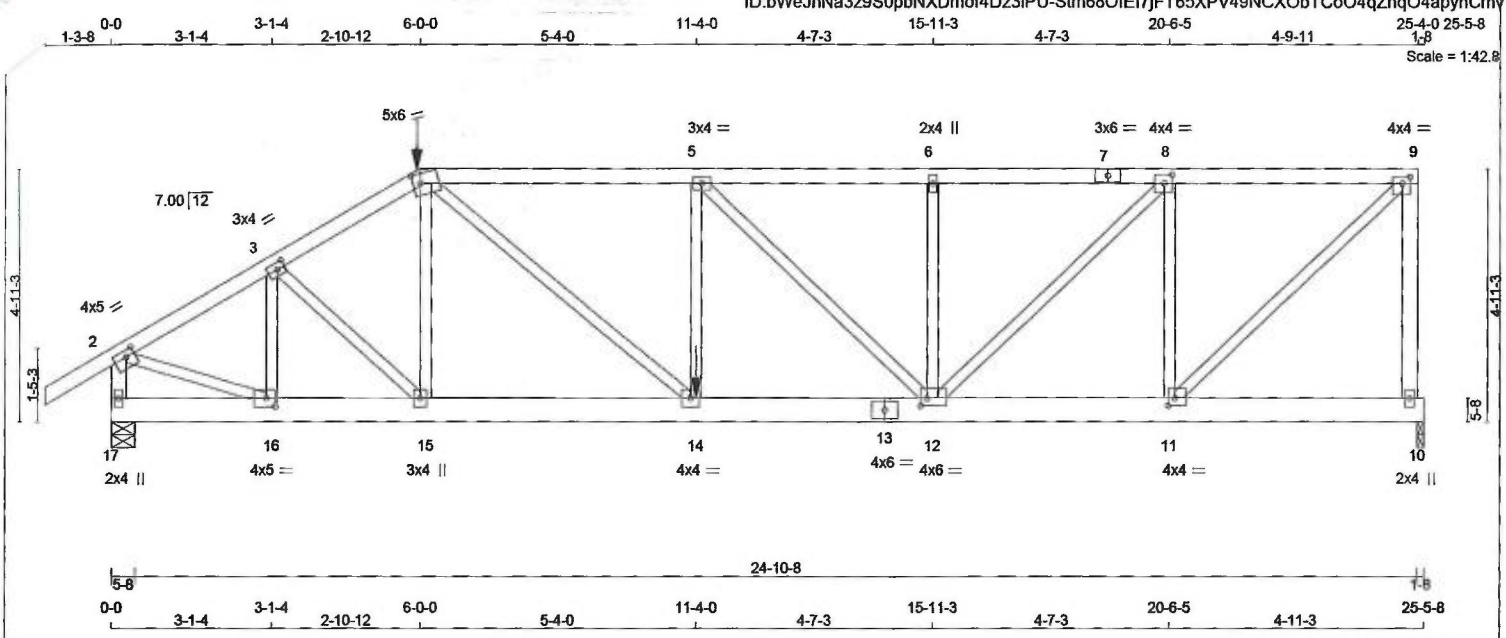
JSI GRIP= 0.90 (12) (INPUT = 0.90 )
JSI METAL= 0.38 (10) (INPUT = 1.00 )

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

KOTT

| TRUSS NAME | QUANTITY | PLY | JOB DESC. | DRWG NO. |
|---|---|---|---|---|
| G04 | 1 | 2 | GREENPARK-MINNISALE HOMES-HEMLOCK 5C EL 2 | PAGE 9 OF 49 |
| | | | TRUSS DESC. | |

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Thu Aug 16 18:08:04 2018 Page 1
ID:bWeJhNa3z9S0pbNXDmof4Dz3iPU-Stm68OfEl7jFT65XPV49NCXObTCoO4qZhqO4apynCmv




TOTAL WEIGHT = 2 X 124 = 249 lb [M]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 1 - 4 | 2x4 | DRY | No.2 | SPF |
| 4 - 7 | 2x4 | DRY | No.2 | SPF |
| 7 - 9 | 2x4 | DRY | No.2 | SPF |
| 10 - 9 | 2x4 | DRY | No.2 | SPF |
| 17 - 2 | 2x4 | DRY | No.2 | SPF |
| 17 - 13 | 2x6 | DRY | No.2 | SPF |
| 13 - 10 | 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 | | | |
| 1- 4 | 1 | 12 | SIDE(0.0) |
| 4- 7 | 1 | 12 | SIDE(34.2) |
| 7- 9 | 1 | 12 | TOP |
| 9- 10 | 1 | 12 | TOP |
| 17- 2 | 1 | 12 | TOP |
| BOTTOM CHORDS : (0.122"X3") SPIRAL NAILS | | | |
| 17- 13 | 2 | 12 | SIDE(8.7) |
| 13- 10 | 2 | 12 | TOP |
| 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.


**READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS 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 |
|---|---|---|---|---|---|---|---|
| 10 | 1943 | 0 | 1943 | 0 | 0 | 1-8 | 1-8 |
| 17 | 2561 | 0 | 2561 | 0 | 0 | 5-8 | 5-8 |

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| 10 | 1363 | 958 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 405 / 0 | 0 / 0 |
| 17 | 1797 | 1258 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 539 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 10, 17

**BRACING**
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.38 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) |
|---|---|---|---|---|---|---|---|---|
| 1- 2 | 0 / 27 | -77.4 | -77.4 | 0.06 (1) | 10.00 | 16- 3 | -821 / 0 | 0.08 (1) |
| 2- 3 | -2861 / 0 | -77.4 | -77.4 | 0.08 (1) | 5.37 | 3-15 | 0 / 485 | 0.06 (1) |
| 3- 4 | -3293 / 0 | -77.4 | -77.4 | 0.08 (1) | 5.08 | 15- 4 | -99 / 108 | 0.02 (4) |
| 4- 5 | -3986 / 0 | -145.9 | -145.9 | 0.38 (1) | 4.38 | 4-14 | 0 / 1521 | 0.19 (1) |
| 5- 6 | -3095 / 0 | -77.4 | -77.4 | 0.30 (1) | 4.93 | 14- 5 | 0 / 204 | 0.03 (4) |
| 6- 7 | -3095 / 0 | -77.4 | -77.4 | 0.19 (1) | 5.08 | 5-12 | -1254 / 0 | 0.47 (1) |
| 7- 8 | -3095 / 0 | -77.4 | -77.4 | 0.19 (1) | 5.08 | 12- 6 | -269 / 0 | 0.05 (1) |
| 8- 9 | -1851 / 0 | -77.4 | -77.4 | 0.16 (1) | 6.22 | 12- 8 | 0 / 1752 | 0.22 (1) |
| 10- 9 | -1903 / 0 | 0.0 | 0.0 | 0.36 (1) | 7.81 | 11- 8 | -1663 / 0 | 0.29 (1) |
| 17- 2 | -2479 / 0 | 0.0 | 0.0 | 0.14 (1) | 7.18 | 11- 9 | 0 / 2552 | 0.32 (1) |
| | | | | | | 2-16 | 0 / 2613 | 0.32 (1) |
| 17-16 | 0 / 0 | -33.0 | -33.0 | 0.04 (1) | 10.00 | | | |
| 16-15 | 0 / 2479 | -33.0 | -33.0 | 0.20 (1) | 10.00 | | | |
| 15-14 | 0 / 2829 | -33.0 | -33.0 | 0.23 (1) | 10.00 | | | |
| 14-13 | 0 / 3986 | -17.5 | -17.5 | 0.29 (1) | 10.00 | | | |
| 13-12 | 0 / 3986 | -17.5 | -17.5 | 0.29 (1) | 10.00 | | | |
| 12-11 | 0 / 1851 | -17.5 | -17.5 | 0.14 (1) | 10.00 | | | |
| 11-10 | 0 / 0 | -17.5 | -17.5 | 0.02 (4) | 10.00 | | | |

FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC. | LC1 | MAX- | MAX+ | FACE | DIR. | TYPE |
|---|---|---|---|---|---|---|---|
| 4 | 6-0-0 | -348 | -348 | --- | FRONT | VERT | TOTAL |
| 14 | 11-4-0 | -1106 | -1106 | --- | FRONT | VERT | TOTAL |

**DESIGN CRITERIA**

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

SPECIFIED LOADS:

| | | | | |
|---|---|---|---|---|
| TOP CH. | LL | = | 23.3 | PSF |
| | DL | = | 3.0 | PSF |
| BOT CH. | LL | = | 0.0 | PSF |
| | DL | = | 7.0 | PSF |
| TOTAL LOAD | | = | 33.3 | PSF |

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

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

GIRDER TYPE: CPrimeHip
LEFT SETBACK = 6-0-0
RIGHT SETBACK = 0-0
END SETBACK = 6-0-0
END WALL WIDTH = 5-8
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: CONVENTIONAL
APPLIED TO FRONT SIDE
- ADDT'L LOADS BASED ON 55 % OF GSL.
LOADS APPLIED TO FIRST 11-4-0 OF SPAN MEASURED FROM THE LEFT.

*** 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 2010

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.84")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.07")
ALLOWABLE DEFL.(TL)= L/360 (0.84")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.12")

CSI: TC=0.38/1.00 (4-5:1) , BC=0.29/1.00 (12-14:1) , WB=0.47/1.00 (5-12:1) , SSI=0.19/1.00 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

CONTINUED ON PAGE 2

KOTT

**PLATES (table is in inches)**

| JT | TYPE | PLATES | W | LEN | Y | X |
|---|---|---|---|---|---|---|
| 2 | TMVW-t | MT20 | 4.0 | 5.0 | 1.50 | 2.00 |
| 3 | TMWW-t | MT20 | 3.0 | 4.0 | 1.50 | 1.75 |
| 4 | TTWW-m | MT20 | 5.0 | 6.0 | 2.25 | 1.75 |
| 5 | TMWW-t | MT20 | 3.0 | 4.0 | | |
| 6 | TMW+w | MT20 | 2.0 | 4.0 | | |
| 7 | TS-t | MT20 | 3.0 | 6.0 | | |
| 8 | TMWW-t | MT20 | 4.0 | 4.0 | 2.00 | 1.75 |
| 9 | TMVW-t | MT20 | 4.0 | 4.0 | 1.50 | 1.75 |
| 10 | BMV1+p | MT20 | 2.0 | 4.0 | | |
| 11 | BMWW-t | MT20 | 4.0 | 4.0 | 1.75 | 1.50 |
| 12 | BMWWW-t | MT20 | 4.0 | 6.0 | 1.75 | 1.50 |
| 13 | BS-t | MT20 | 4.0 | 6.0 | | |
| 14 | BMWW-t | MT20 | 4.0 | 4.0 | | |
| 15 | BMWW+t | MT20 | 3.0 | 4.0 | | |
| 16 | BMWW-t | MT20 | 4.0 | 5.0 | 2.00 | 2.00 |
| 17 | BMV1+p | MT20 | 2.0 | 4.0 | | |

**HANGERS NOTES**

1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 348.1 lbs FACTORED DOWN AT 6-0-0 ON TOP CHORD, AND 1105.7 lbs FACTORED DOWN AT 11-4-0 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

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 | 618 | 354 | 1667 | 822 | 2284 | 1656 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

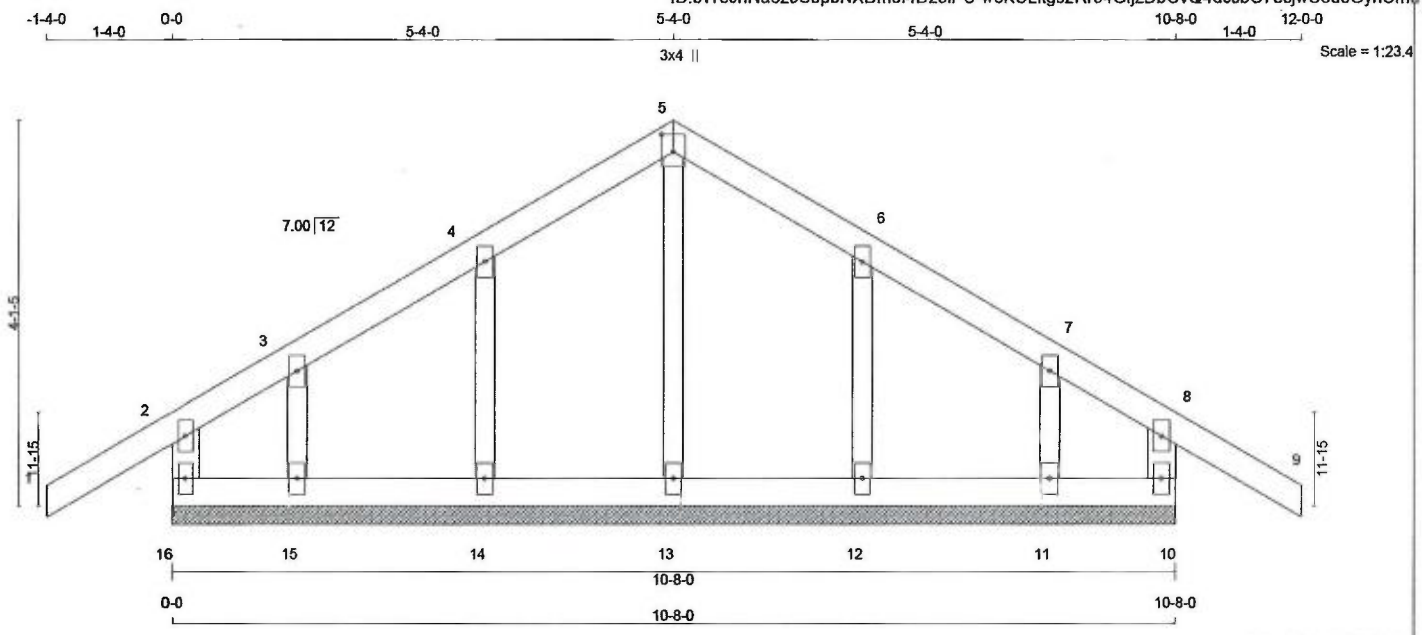
JSI GRIP= 0.89 (2) (INPUT = 0.90 )
JSI METAL= 0.45 (2) (INPUT = 1.00 )

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS 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. |
|---|---|---|---|---|---|
| NE0818-105 | GE01 | 1 | 1 | GREENPARK-MINNISALE HOMES-HEMLOCK 5C EL 2 | **PAGE 11 OF 49** |
| | | | | TRUSS DESC. | |

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Thu Aug 16 18:08:05 2018 Page 1
ID:bWeJhNa3z9S0pbNXDmof4Dz3iPU-w3KULkgs2Rr64GfjzDbOvQ4dcsbO7ecjwU8d6GynCmu




TOTAL WEIGHT = 40 lb [M]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 16 - 2 | 2x4 | DRY | No.2 | SPF |
| 1 - 5 | 2x4 | DRY | No.2 | SPF |
| 5 - 9 | 2x4 | DRY | No.2 | SPF |
| 10 - 8 | 2x4 | DRY | No.2 | SPF |
| 16 - 10 | 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 |
|---|---|---|---|---|---|---|
| 2 | TMV+p | MT20 | 2.0 | 4.0 | | |
| 3, 4, 6, 7 | | | | | | |
| 3 | TMW+w | MT20 | 2.0 | 4.0 | | |
| 5 | TTW+p | MT20 | 3.0 | 4.0 | 2.25 | 1.50 |
| 8 | TMV+p | MT20 | 2.0 | 4.0 | | |
| 10 | BMV1+p | MT20 | 2.0 | 4.0 | | |
| 11, 12, 13, 14, 15 | | | | | | |
| 11 | BMW1+w | MT20 | 2.0 | 4.0 | | |
| 16 | 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 LC1 (PLF) FROM | TO | MAX CSI (LC) | MAX. UNBRAC LENGTH | WEBS MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
|---|---|---|---|---|---|---|---|---|
| 16- 2 | -171 / 0 | 0.0 | 0.0 | 0.04 (1) | 7.81 | 13- 5 | -195 / 0 | 0.05 (1) |
| 1- 2 | 0 / 27 | -77.4 | -77.4 | 0.11 (1) | 10.00 | 14- 4 | -168 / 0 | 0.03 (1) |
| 2- 3 | 0 / 16 | -77.4 | -77.4 | 0.07 (1) | 10.00 | 15- 3 | -86 / 0 | 0.01 (1) |
| 3- 4 | 0 / 40 | -77.4 | -77.4 | 0.05 (1) | 10.00 | 12- 6 | -168 / 0 | 0.03 (1) |
| 4- 5 | 0 / 39 | -77.4 | -77.4 | 0.05 (1) | 10.00 | 11- 7 | -86 / 0 | 0.01 (1) |
| 5- 6 | 0 / 39 | -77.4 | -77.4 | 0.05 (1) | 10.00 | | | |
| 6- 7 | 0 / 40 | -77.4 | -77.4 | 0.05 (1) | 10.00 | | | |
| 7- 8 | 0 / 16 | -77.4 | -77.4 | 0.07 (1) | 10.00 | | | |
| 8- 9 | 0 / 27 | -77.4 | -77.4 | 0.11 (1) | 10.00 | | | |
| 10- 8 | -171 / 0 | 0.0 | 0.0 | 0.04 (1) | 7.81 | | | |
| 16-15 | -26 / 0 | -17.5 | -17.5 | 0.02 (1) | 6.25 | | | |
| 15-14 | -31 / 0 | -17.5 | -17.5 | 0.01 (4) | 6.25 | | | |
| 14-13 | -35 / 0 | -17.5 | -17.5 | 0.01 (4) | 6.25 | | | |
| 13-12 | -35 / 0 | -17.5 | -17.5 | 0.01 (4) | 6.25 | | | |
| 12-11 | -31 / 0 | -17.5 | -17.5 | 0.01 (4) | 6.25 | | | |
| 11-10 | -26 / 0 | -17.5 | -17.5 | 0.02 (1) | 6.25 | | | |

**DESIGN CRITERIA**

SPECIFIED LOADS:

| | | | | |
|---|---|---|---|---|
| TOP CH. | LL | = | 23.3 | PSF |
| | DL | = | 3.0 | PSF |
| BOT CH. | LL | = | 0.0 | PSF |
| | DL | = | 7.0 | PSF |
| TOTAL LOAD | | = | 33.3 | PSF |

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

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.11/1.00 (8-9:1) , BC=0.02/1.00 (10-11:1) , WB=0.05/1.00 (5-13:1) , SSI=0.07/1.00 (8-9:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.12 (5) (INPUT = 0.90 )
JSI METAL= 0.07 (5) (INPUT = 1.00 )

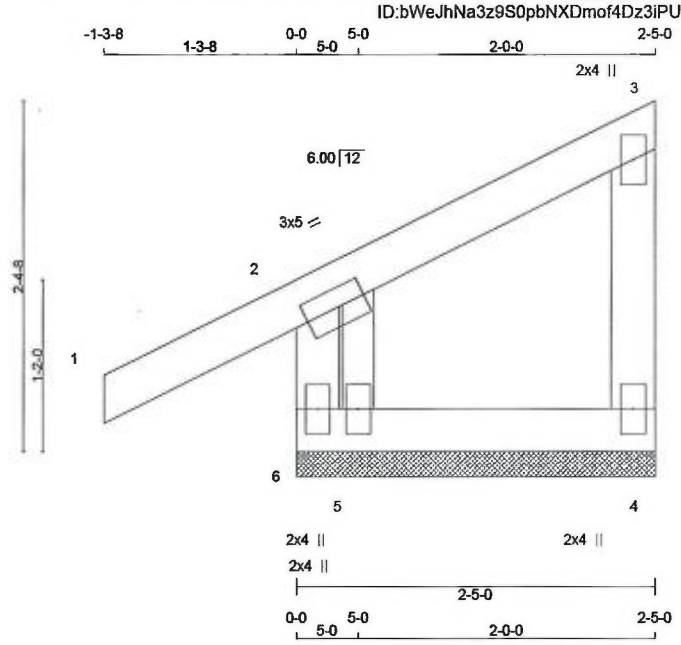
LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
PROVINCE OF ONTARIO
Aug 16, 2018

**READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS 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. | GREENPARK-MINNISALE HOMES-HEMLOCK 5C EL 2 | DRWG NO. |
|---|---|---|---|---|---|---|
| NE0818-105 | GE02 | 1 | 1 | TRUSS DESC. | | **PAGE 12 OF 49** |

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Thu Aug 16 18:08:05 2018 Page 1
ID:bWeJhNa3z9S0pbNXDmof4Dz3iPU-w3KULkgs2Rr64GfjzDbOvQ4dksbO7eJjwU8d6GynCmu




Scale = 1:14.9

TOTAL WEIGHT = 11 lb [M]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 6 - 2 | 2x4 | DRY | No.2 | SPF |
| 1 - 3 | 2x4 | DRY | No.2 | SPF |
| 4 - 3 | 2x4 | DRY | No.2 | SPF |
| 6 - 4 | 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 |
|---|---|---|---|---|---|---|
| 2 | TMVW-t | MT20 | 3.0 | 5.0 | 1.50 | 2.25 |
| 3 | TMV+p | MT20 | 2.0 | 4.0 | | |
| 4 | BMV1+p | MT20 | 2.0 | 4.0 | | |
| 5 | BMW1+w | MT20 | 2.0 | 4.0 | | |
| 6 | 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: (5)

| 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) |
|---|---|---|---|---|---|---|---|---|
| 6- 2 | -194 / 0 | 0.0 | 0.0 | 0.02 (1) | 7.81 | 5- 2 | -24 / 1 | 0.00 (1) |
| 1- 2 | 0 / 23 | -77.4 | -77.4 | 0.10 (1) | 10.00 | | | |
| 2- 3 | -20 / 0 | -77.4 | -77.4 | 0.06 (1) | 6.25 | | | |
| 4- 3 | -76 / 0 | 0.0 | 0.0 | 0.03 (1) | 7.81 | | | |
| 6- 5 | 0 / 24 | -17.5 | -17.5 | 0.02 (1) | 10.00 | | | |
| 5- 4 | 0 / 13 | -17.5 | -17.5 | 0.01 (4) | 10.00 | | | |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

**DESIGN CRITERIA**

SPECIFIED LOADS:

| | | | | |
|---|---|---|---|---|
| TOP CH. | LL | = | 23.3 | PSF |
| | DL | = | 3.0 | PSF |
| BOT CH. | LL | = | 0.0 | PSF |
| | DL | = | 7.0 | PSF |
| TOTAL LOAD | | = | 33.3 | PSF |

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

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.10/1.00 (1-2:1) , BC=0.02/1.00 (5-6:1) , WB=0.00/1.00 (2-5:1) , SSI=0.07/1.00 (1-2:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.19 (2) (INPUT = 0.90 )
JSI METAL= 0.04 (6) (INPUT = 1.00 )

LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
PROVINCE OF ONTARIO
Aug 16, 2018

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

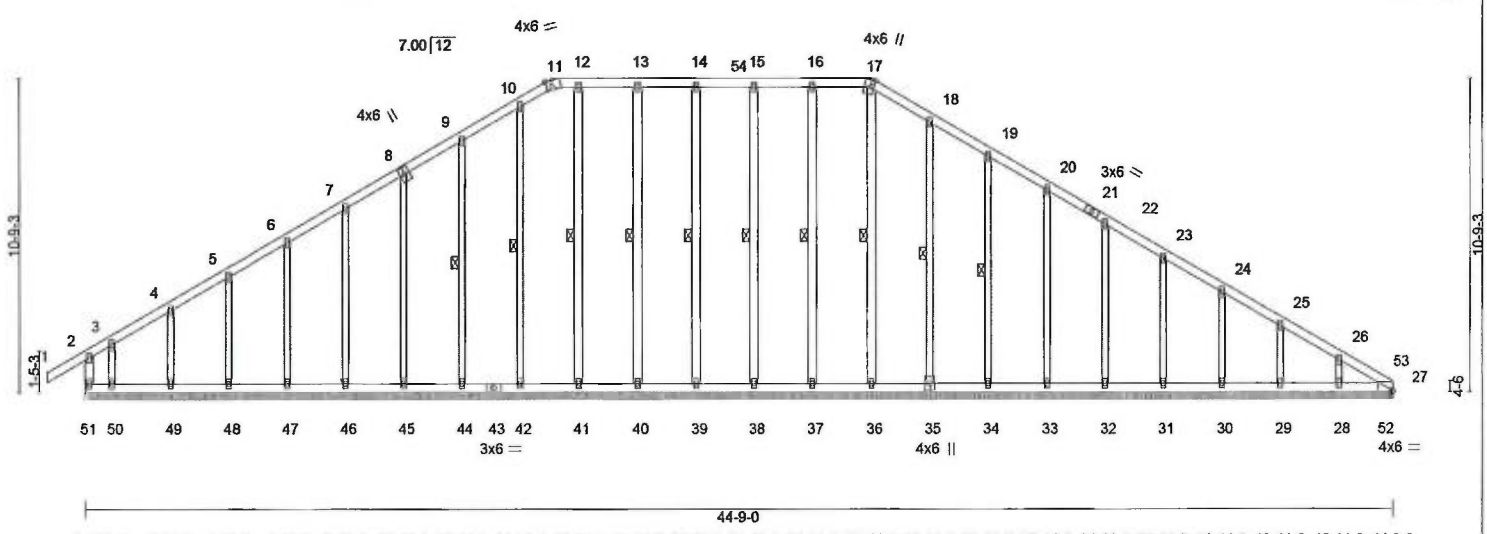
KOTT

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | GREENPARK-MINNISALE HOMES-HEMLOCK 5C EL 2 | DRWG NO. |
|---|---|---|---|---|---|---|
| NE0818-105 | GE03 | 2 | 1 | TRUSS DESC. | | **PAGE 13 OF 49** |

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Thu Aug 16 18:08:07 2018 Page 1
ID:bWeJhNa3z9S0pbNXDmof4Dz3iPU-sSRFmQh6a25qKap54eds_r9zBgHpbW40NodkB8ynCm

-1-3-8 0-0 11-0 2-11-0 4-11-0 6-11-0 8-11-0 10-11-0 12-11-0 14-11-0 16-0-0 16-11-0 18-11-0 20-11-0 22-11-0 24-11-0 26-11-0 28-11-0 30-11-0 32-11-0 34-11-0 36-11-0 38-11-0 40-11-0 42-11-0 44-9-0
1-3-8 1-1-0 2-0-0 2-0-0 2-0-0 2-0-0 2-0-0 2-0-0 2-0-0 1-1-0 1-1-0 2-0-0 2-0-0 2-0-0 2-0-0 2-0-0 2-0-0 2-0-0 2-0-0 2-0-0 2-0-0 2-0-0 2-0-0 1-10-0

Scale = 1:75.5




44-9-0

0-0 11-0 2-11-0 4-11-0 6-11-0 8-11-0 10-11-0 12-11-0 14-11-0 16-11-0 18-11-0 20-11-0 22-11-0 24-11-0 26-11-0 28-11-0 30-11-0 32-11-0 34-11-0 36-11-0 38-11-0 40-11-0 42-11-0 44-9-0
11-0 2-0-0 2-0-0 2-0-0 2-0-0 2-0-0 2-0-0 2-0-0 2-0-0 2-0-0 2-0-0 2-0-0 2-0-0 2-0-0 2-0-0 2-0-0 2-0-0 2-0-0 2-0-0 2-0-0 2-0-0 1-10-0

TOTAL WEIGHT = 2 X 249 = 498 lb (M)

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 1 - 8 | 2x4 | DRY | No.2 | SPF |
| 8 - 11 | 2x4 | DRY | No.2 | SPF |
| 11 - 17 | 2x4 | DRY | No.2 | SPF |
| 17 - 21 | 2x4 | DRY | No.2 | SPF |
| 21 - 27 | 2x4 | DRY | No.2 | SPF |
| 51 - 2 | 2x4 | DRY | No.2 | SPF |
| 51 - 43 | 2x4 | DRY | No.2 | SPF |
| 43 - 35 | 2x4 | DRY | No.2 | SPF |
| 35 - 27 | 2x4 | DRY | No.2 | SPF |
| ALL WEBS EXCEPT | 2x3 | DRY | No.2 | SPF |
| 36 - 17 | 2x4 | DRY | No.2 | SPF |
| 37 - 16 | 2x4 | DRY | No.2 | SPF |
| 38 - 15 | 2x4 | DRY | No.2 | SPF |
| 39 - 14 | 2x4 | DRY | No.2 | SPF |
| 40 - 13 | 2x4 | DRY | No.2 | SPF |
| 41 - 12 | 2x4 | DRY | No.2 | SPF |
| ALL GABLE WEBS EXCEPT | 2x3 | DRY | No.2 | SPF |
| ST1 | 2x4 | DRY | No.2 | SPF |
| ST2 | 2x4 | DRY | No.2 | SPF |
| ST3 | 2x4 | DRY | No.2 | SPF |
| ST4 | 2x4 | DRY | No.2 | SPF |
| ST5 | 2x4 | DRY | No.2 | SPF |
| ST6 | 2x4 | 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 |
|---|---|---|---|---|---|---|
| 2 | TMV+p | MT20 | 2.0 | 4.0 | | |
| 3, 4, 5, 6, 7, 9, 10, 12, 13, 14, 15, 16, 18, 19, 20, 22, 23, 24, 25, 26 | | | | | | |
| 3 | TMW+w | MT20 | 2.0 | 4.0 | | |
| 8 | TSW+l | MT20 | 4.0 | 6.0 | | |
| 11 | TT-m | MT20 | 4.0 | 6.0 | Edge | 2.00 |
| 17 | TTW+m | MT20 | 4.0 | 6.0 | Edge | 1.00 |


**READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS 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**

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**

FOR SECTION 11-17, MAX. PURLIN SPACING = 2.00 FT.
FOR OTHER SECTIONS, 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.

1 - 1x4 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 17-36, 16-37, 15-38, 14-39, 13-40, 12-41, 10-42, 9-44, 18-35, 19-34. DBS = 20-0-0 . CBF = 25 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. 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) |
|---|---|---|---|---|---|---|---|---|
| 1- 2 | 0 / 27 | -77.4 | -77.4 | 0.10 (1) | 10.00 | 36-17 | -142 / 0 | 0.08 (1) |
| 2- 3 | -37 / 0 | -77.4 | -77.4 | 0.10 (1) | 6.25 | 37-16 | -190 / 0 | 0.11 (1) |
| 3- 4 | 0 / 6 | -77.4 | -77.4 | 0.04 (1) | 10.00 | 38-15 | -166 / 0 | 0.10 (1) |
| 4- 5 | 0 / 5 | -77.4 | -77.4 | 0.04 (1) | 10.00 | 39-14 | -173 / 0 | 0.10 (1) |
| 5- 6 | 0 / 10 | -77.4 | -77.4 | 0.04 (1) | 10.00 | 40-13 | -152 / 0 | 0.09 (1) |
| 6- 7 | 0 / 12 | -77.4 | -77.4 | 0.04 (1) | 10.00 | 41-12 | -197 / 0 | 0.12 (1) |
| 7- 8 | 0 / 14 | -77.4 | -77.4 | 0.04 (1) | 10.00 | 42-10 | -164 / 0 | 0.12 (1) |
| 8- 9 | 0 / 14 | -77.4 | -77.4 | 0.04 (1) | 10.00 | 44- 9 | -142 / 0 | 0.07 (1) |
| 9-10 | 0 / 21 | -77.4 | -77.4 | 0.06 (1) | 10.00 | 45- 8 | -156 / 0 | 0.18 (1) |
| 10-11 | 0 / 0 | -77.4 | -77.4 | 0.05 (1) | 10.00 | 46- 7 | -156 / 0 | 0.11 (1) |
| 11-12 | 0 / 16 | -84.9 | -84.9 | 0.08 (1) | 2.00 | 47- 6 | -153 / 0 | 0.07 (1) |
| 12-13 | 0 / 15 | -84.9 | -84.9 | 0.08 (1) | 2.00 | 48- 5 | -151 / 0 | 0.04 (1) |
| 13-14 | 0 / 15 | -84.9 | -84.9 | 0.04 (1) | 2.00 | 49- 4 | -164 / 0 | 0.03 (1) |
| 14-54 | 0 / 15 | -84.9 | -84.9 | 0.04 (1) | 2.00 | 50- 3 | -25 / 0 | 0.00 (1) |
| 54-15 | 0 / 15 | -84.9 | -84.9 | 0.04 (1) | 2.00 | 35-18 | -175 / 0 | 0.11 (1) |
| 15-16 | 0 / 15 | -84.9 | -84.9 | 0.05 (1) | 2.00 | 34-19 | -151 / 0 | 0.07 (1) |
| 16-17 | 0 / 15 | -84.9 | -84.9 | 0.05 (1) | 2.00 | 33-20 | -154 / 0 | 0.14 (1) |
| 17-18 | 0 / 10 | -77.4 | -77.4 | 0.04 (1) | 10.00 | 32-22 | -154 / 0 | 0.09 (1) |
| 18-19 | 0 / 18 | -77.4 | -77.4 | 0.05 (1) | 10.00 | 31-23 | -153 / 0 | 0.06 (1) |
| 19-20 | 0 / 14 | -77.4 | -77.4 | 0.04 (1) | 10.00 | 30-24 | -153 / 0 | 0.03 (1) |
| 20-21 | 0 / 13 | -77.4 | -77.4 | 0.04 (1) | 6.25 | 29-25 | -153 / 0 | 0.02 (1) |
| 21-22 | 0 / 13 | -77.4 | -77.4 | 0.04 (1) | 6.25 | 28-26 | -147 / 0 | 0.02 (1) |
| 22-23 | 0 / 10 | -77.4 | -77.4 | 0.04 (1) | 10.00 | 52-53 | -34 / 5 | 0.00 (1) |
| 23-24 | 0 / 8 | -77.4 | -77.4 | 0.04 (1) | 10.00 | | | |
| 24-25 | 0 / 4 | -77.4 | -77.4 | 0.04 (1) | 10.00 | | | |
| 25-26 | -2 / 0 | -77.4 | -77.4 | 0.04 (1) | 10.00 | | | |
| 26-53 | -3 / 0 | -77.4 | -77.4 | 0.03 (1) | 10.00 | | | |
| 53-27 | -21 / 0 | -77.4 | -77.4 | 0.01 (4) | 6.25 | | | |
| 51- 2 | -212 / 0 | 0.0 | 0.0 | 0.02 (1) | 7.81 | | | |
| 51-50 | 0 / 0 | -17.5 | -17.5 | 0.01 (4) | 10.00 | | | |
| 50-49 | -1 / 0 | -17.5 | -17.5 | 0.01 (4) | 10.00 | | | |
| 49-48 | -5 / 0 | -17.5 | -17.5 | 0.01 (4) | 10.00 | | | |
| 48-47 | -8 / 0 | -17.5 | -17.5 | 0.01 (4) | 10.00 | | | |
| 47-46 | -11 / 0 | -17.5 | -17.5 | 0.01 (4) | 6.25 | | | |
| 46-45 | -12 / 0 | -17.5 | -17.5 | 0.01 (4) | 6.25 | | | |
| 45-44 | -13 / 0 | -17.5 | -17.5 | 0.01 (4) | 6.25 | | | |
| 44-43 | -14 / 0 | -17.5 | -17.5 | 0.01 (4) | 6.25 | | | |

**DESIGN CRITERIA**

SPECIFIED LOADS:

| | | | | |
|---|---|---|---|---|
| TOP CH. | LL | = | 23.3 | PSF |
| | DL | = | 3.0 | PSF |
| BOT CH. | LL | = | 0.0 | PSF |
| | DL | = | 7.0 | PSF |
| TOTAL LOAD | | = | 33.3 | PSF |

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

LOADING IN FLAT SECTION BASED ON PIGGYBACK TRUSS WITH SLOPES OF 7.00/12 AND -7.00/12 AND RESPECTIVE WALL 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 2010

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.10/1.00 (1-2:1) , BC=0.02/1.00 (28-52:1) , WB=0.18/1.00 (8-45:1) , SSI=0.08/1.00 (16-17:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.50 (17) (INPUT = 0.90 )
JSI METAL= 0.06 (35) (INPUT = 1.00 )

CONTINUED ON PAGE 2

KOTT

**PLATES (table is in Inches)**

| JT | TYPE | PLATES | W | LEN | Y | X |
|---|---|---|---|---|---|---|
| 21 | TS-t | MT20 | 3.0 | 6.0 | | |
| 27 | TMB1-I | MT20 | 4.0 | 6.0 | 0.25 | |
| 28, 29, 30, 31, 32, 33, 34, 36, 37, 38, 39, 40, 41, 42, 44, 45, 46, 47, 48, 49, 50 | | | | | | |
| 28 | BMW1+w | MT20 | 2.0 | 4.0 | | |
| 35 | BSW1+I | MT20 | 4.0 | 6.0 | | |
| 43 | BS-t | MT20 | 3.0 | 6.0 | | |
| 51 | BMV1+p | MT20 | 2.0 | 4.0 | | |

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

**LOADING**

TOTAL LOAD CASES: (4)

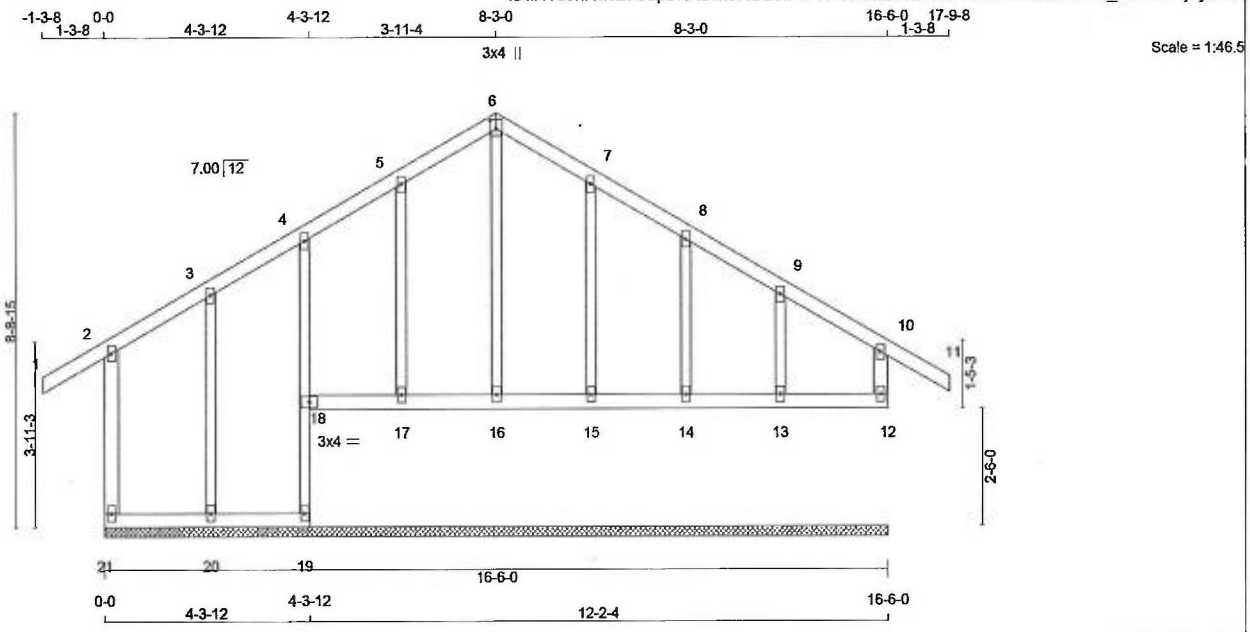
| CHORDS MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD LC1 (PLF) FROM | TO | MAX CSI (LC) | MAX. UNBRAC LENGTH | WEBS MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
|---|---|---|---|---|---|---|---|---|
| 43-42 | -14 / 0 | -17.5 | -17.5 | 0.01 (4) | 6.25 | | | |
| 42-41 | -15 / 0 | -17.5 | -17.5 | 0.01 (4) | 6.25 | | | |
| 41-40 | -15 / 0 | -17.5 | -17.5 | 0.01 (4) | 6.25 | | | |
| 40-39 | -15 / 0 | -17.5 | -17.5 | 0.01 (4) | 6.25 | | | |
| 39-38 | -15 / 0 | -17.5 | -17.5 | 0.01 (4) | 6.25 | | | |
| 38-37 | -15 / 0 | -17.5 | -17.5 | 0.01 (4) | 6.25 | | | |
| 37-36 | -15 / 0 | -17.5 | -17.5 | 0.01 (4) | 6.25 | | | |
| 36-35 | -15 / 0 | -17.5 | -17.5 | 0.01 (4) | 6.25 | | | |
| 35-34 | -14 / 0 | -17.5 | -17.5 | 0.01 (4) | 6.25 | | | |
| 34-33 | -13 / 0 | -17.5 | -17.5 | 0.01 (4) | 6.25 | | | |
| 33-32 | -11 / 0 | -17.5 | -17.5 | 0.01 (4) | 6.25 | | | |
| 32-31 | -9 / 0 | -17.5 | -17.5 | 0.01 (4) | 10.00 | | | |
| 31-30 | -7 / 0 | -17.5 | -17.5 | 0.01 (4) | 10.00 | | | |
| 30-29 | -3 / 0 | -17.5 | -17.5 | 0.01 (4) | 10.00 | | | |
| 29-28 | 0 / 2 | -17.5 | -17.5 | 0.01 (4) | 10.00 | | | |
| 28-52 | 0 / 12 | -17.5 | -17.5 | 0.02 (1) | 10.00 | | | |
| 52-27 | 0 / 12 | -17.5 | -17.5 | 0.02 (1) | 10.00 | | | |

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS 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. | GREENPARK-MINNISALE HOMES-HEMLOCK 5C EL 2 | DRWG NO. |
|---|---|---|---|---|---|---|
| NE0818-105 | GE04 | 1 | 1 | TRUSS DESC. | | **PAGE 15 OF 49** |

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Thu Aug 16 18:08:08 2018 Page 1
ID:bWeJhNa3z9S0pbNXDmof4Dz3iPU-Ke?dzmikLMEhxkOleL85X2h8x4d0K_Z9cSMHjaynCm




TOTAL WEIGHT = 74 lb [M]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 21 - 2 | 2x4 | DRY | No.2 | SPF |
| 1 - 6 | 2x4 | DRY | No.2 | SPF |
| 6 - 11 | 2x4 | DRY | No.2 | SPF |
| 12 - 10 | 2x4 | DRY | No.2 | SPF |
| 21 - 19 | 2x4 | DRY | No.2 | SPF |
| 19 - 4 | 2x3 | DRY | No.2 | SPF |
| 18 - 12 | 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 |
|---|---|---|---|---|---|---|
| 2, 4, 10 | | | | | | |
| 2 | TMV+p | MT20 | 2.0 | 4.0 | | |
| 3, 5, 7, 8, 9 | | | | | | |
| 3 | TMW+w | MT20 | 2.0 | 4.0 | | |
| 6 | TTW+p | MT20 | 3.0 | 4.0 | 2.25 | 1.50 |
| 12, 19, 21 | | | | | | |
| 12 | BMV1+p | MT20 | 2.0 | 4.0 | | |
| 13, 14, 15, 16, 17, 20 | | | | | | |
| 13 | BMW1+w | MT20 | 2.0 | 4.0 | | |
| 18 | BVM-I | MT20 | 3.0 | 4.0 | | |

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

**BEARINGS**

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

BEVELED PLATE OR SHIM REQUIRED TO PROVIDE FULL BEARING SURFACE WITH TRUSS CHORD AT JT(S): 12 , 16 , 17 , 15 , 14 , 13
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 = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

| CHORDS MEMB. 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) |
|---|---|---|---|---|---|---|---|---|---|
| 21- 2 | -195 / 0 | 0.0 | 0.0 | 0.01 (1) | | 7.81 | 16- 6 | -163 / 0 | 0.10 (1) |
| 1- 2 | 0 / 27 | -77.4 | -77.4 | 0.10 (1) | | 10.00 | 17- 5 | -162 / 0 | 0.06 (1) |
| 2- 3 | -5 / 0 | -77.4 | -77.4 | 0.05 (1) | | 10.00 | 20- 3 | -158 / 0 | 0.06 (1) |
| 3- 4 | -2 / 0 | -77.4 | -77.4 | 0.04 (1) | | 10.00 | 15- 7 | -158 / 0 | 0.06 (1) |
| 4- 5 | -1 / 4 | -77.4 | -77.4 | 0.04 (1) | | 10.00 | 14- 8 | -151 / 0 | 0.04 (1) |
| 5- 6 | -1 / 4 | -77.4 | -77.4 | 0.04 (1) | | 10.00 | 13- 9 | -158 / 0 | 0.03 (1) |
| 6- 7 | 0 / 5 | -77.4 | -77.4 | 0.04 (1) | | 10.00 | | | |
| 7- 8 | -1 / 3 | -77.4 | -77.4 | 0.04 (1) | | 10.00 | | | |
| 8- 9 | -2 / 0 | -77.4 | -77.4 | 0.04 (1) | | 10.00 | | | |
| 9-10 | -8 / 0 | -77.4 | -77.4 | 0.04 (1) | | 10.00 | | | |
| 10-11 | 0 / 27 | -77.4 | -77.4 | 0.10 (1) | | 10.00 | | | |
| 12-10 | -196 / 0 | 0.0 | 0.0 | 0.01 (4) | | 7.81 | | | |
| 21-20 | 0 / 3 | -17.5 | -17.5 | 0.02 (4) | | 10.00 | | | |
| 20-19 | 0 / 0 | -17.5 | -17.5 | 0.02 (4) | | 10.00 | | | |
| 19-18 | -163 / 0 | 0.0 | 0.0 | 0.01 (4) | | 7.81 | | | |
| 18- 4 | -149 / 0 | 0.0 | 0.0 | 0.01 (1) | | 7.81 | | | |
| 18-17 | -2 / 1 | -17.5 | -17.5 | 0.02 (4) | | 10.00 | | | |
| 17-16 | -5 / 0 | -17.5 | -17.5 | 0.02 (4) | | 10.00 | | | |
| 16-15 | -5 / 0 | -17.5 | -17.5 | 0.01 (4) | | 10.00 | | | |
| 15-14 | -2 / 1 | -17.5 | -17.5 | 0.01 (4) | | 10.00 | | | |
| 14-13 | 0 / 1 | -17.5 | -17.5 | 0.02 (4) | | 10.00 | | | |
| 13-12 | 0 / 6 | -17.5 | -17.5 | 0.02 (4) | | 10.00 | | | |

**DESIGN CRITERIA**

SPECIFIED LOADS:

| | | | | |
|---|---|---|---|---|
| TOP CH. | LL | = | 23.3 | PSF |
| | DL | = | 3.0 | PSF |
| BOT CH. | LL | = | 0.0 | PSF |
| | DL | = | 7.0 | PSF |
| TOTAL LOAD | | = | 33.3 | PSF |

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

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.10/1.00 (1-2:1) , BC=0.02/1.00 (20-21:4) , WB=0.10/1.00 (6-16:1) , SSI=0.07/1.00 (1-2:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.58 (6) (INPUT = 0.90 )
JSI METAL= 0.06 (6) (INPUT = 1.00 )

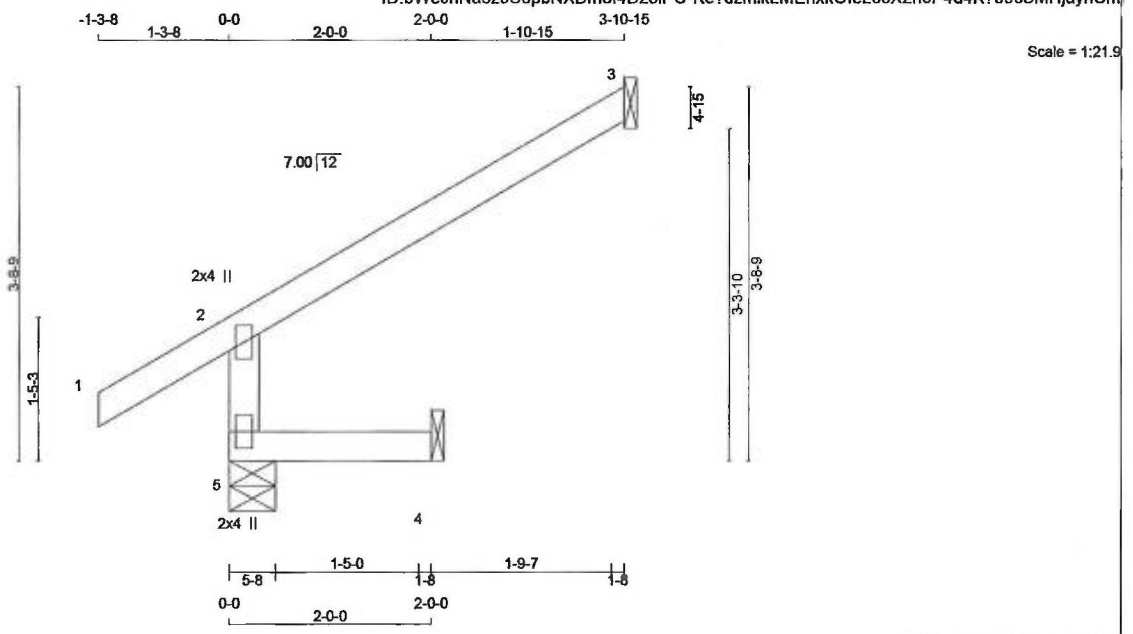
LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
PROVINCE OF ONTARIO
Aug 16, 2018

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS 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. | GREENPARK-MINNISALE HOMES-HEMLOCK 5C EL 2 | DRWG NO. |
|---|---|---|---|---|---|---|
| NE0818-105 | J01 | 2 | 1 | TRUSS DESC. | | **PAGE 16 OF 49** |

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Thu Aug 16 18:08:08 2018 Page 1
ID:bWeJhNa3z9S0pbNXDmof4Dz3iPU-Ke?dzmikLMEhxkOleL85X2h6P4d4K?69cSMHjaynCm




TOTAL WEIGHT = 2 X 10 = 21 lb [M]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 5 - 2 | 2x4 | DRY | No.2 | SPF |
| 1 - 3 | 2x4 | DRY | No.2 | SPF |
| 5 - 4 | 2x4 | DRY | No.2 | SPF |

DRY: SEASONED LUMBER.

PLATES (table is in inches)

| JT | TYPE | PLATES | W | LEN | Y | X |
|---|---|---|---|---|---|---|
| 2 | TMV+p | MT20 | 2.0 | 4.0 | | |
| 5 | 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 |
|---|---|---|---|---|---|---|---|
| 5 | 314 | 0 | 314 | 0 | 0 | 5-8 | 5-8 |
| 3 | 114 | 0 | 114 | 0 | 0 | 1-8 | 1-8 |
| 4 | 16 | 0 | 18 | 0 | 0 | 1-8 | 1-8 |

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) 3 , 4

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| 5 | 216 | 177 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 38 / 0 | 0 / 0 |
| 3 | 77 | 68 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 9 / 0 | 0 / 0 |
| 4 | 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) 5

**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 (PLF) FROM | TO | LC1 MAX CSI (LC) | MAX. UNBRAC LENGTH | WEBS MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
|---|---|---|---|---|---|---|---|---|
| 5- 2 | -295 / 0 | 0.0 | 0.0 | 0.01 (4) | 7.81 | | | |
| 1- 2 | 0 / 27 | -77.4 | -77.4 | 0.10 (1) | 10.00 | | | |
| 2- 3 | -19 / 0 | -77.4 | -77.4 | 0.20 (1) | 6.25 | | | |
| 5- 4 | 0 / 0 | -17.5 | -17.5 | 0.02 (4) | 10.00 | | | |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

**DESIGN CRITERIA**

SPECIFIED LOADS:

| | | | | |
|---|---|---|---|---|
| TOP CH. | LL | = | 23.3 | PSF |
| | DL | = | 3.0 | PSF |
| BOT CH. | LL | = | 0.0 | PSF |
| | DL | = | 7.0 | PSF |
| TOTAL LOAD | | = | 33.3 | PSF |

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

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 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=0.20/1.00 (2-3:1) , BC=0.02/1.00 (4-5:4) , WB=0.00/1.00 (n/a:0) , SSI=0.13/1.00 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.18 (2) (INPUT = 0.90 )
JSI METAL= 0.07 (2) (INPUT = 1.00 )

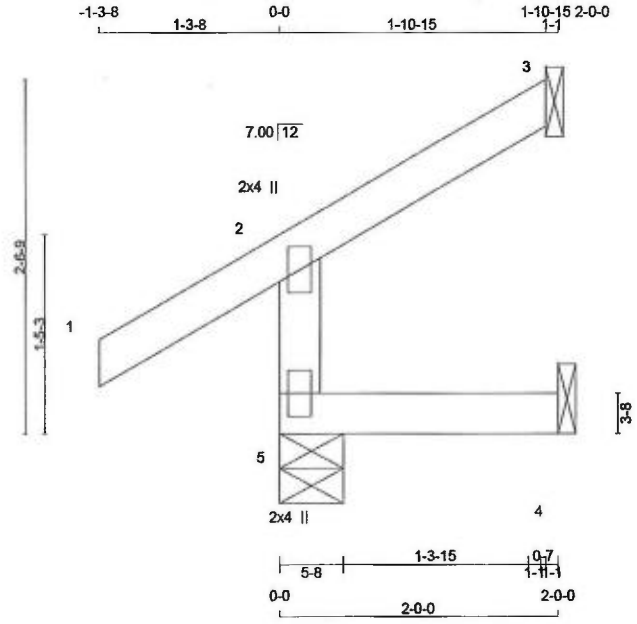
LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
PROVINCE OF ONTARIO
Aug 16, 2018

**READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS 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. |
|---|---|---|---|---|---|
| NE0818-105 | J02 | 2 | 1 | GREENPARK-MINNISALE HOMES-HEMLOCK 5C EL 2 | **PAGE 17 OF 49** |
| | | | | TRUSS DESC. | |

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Thu Aug 16 18:08:09 2018 Page 1
ID:bWeJhNa3z9S0pbNXDmof4Dz3iPU-orZ?B6jM6gMYZuzUC3fK4GEJhUzJ3SLJr66rF1ynCmq




TOTAL WEIGHT = 2 X 8 = 16 lb

[M]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 5 - 2 | 2x4 | DRY | No.2 | SPF |
| 1 - 3 | 2x4 | DRY | No.2 | SPF |
| 5 - 4 | 2x4 | DRY | No.2 | SPF |

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE | PLATES | W | LEN Y | X |
|---|---|---|---|---|---|
| 2 | TMV+p | MT20 | 2.0 | 4.0 | |
| 5 | 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 |
|---|---|---|---|---|---|---|---|
| 5 | 217 | 0 | 217 | 0 | 0 | 5-8 | 5-8 |
| 3 | 56 | 0 | 56 | 0 | 0 | 1-8 | 1-8 |
| 4 | 16 | 0 | 18 | 0 | 0 | 1-8 | 1-8 |

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) 3 , 4

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| 5 | 149 | 119 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 31 / 0 | 0 / 0 |
| 3 | 38 | 34 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 4 / 0 | 0 / 0 |
| 4 | 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) 5, 3

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

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

**LOADING**
TOTAL LOAD CASES: (5)

| CHORDS MEMB. 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) |
|---|---|---|---|---|---|---|---|---|
| 5- 2 | -197 / 0 | 0.0 | 0.0 | 0.01 (4) | 7.81 | | | |
| 1- 2 | 0 / 27 | -77.4 | -77.4 | 0.10 (1) | 10.00 | | | |
| 2- 3 | -9 / 0 | -77.4 | -77.4 | 0.05 (1) | 10.00 | | | |
| 5- 4 | 0 / 0 | -17.5 | -17.5 | 0.02 (4) | 10.00 | | | |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

**DESIGN CRITERIA**

SPECIFIED LOADS:

| | | | | |
|---|---|---|---|---|
| TOP CH. | LL | = | 23.3 | PSF |
| | DL | = | 3.0 | PSF |
| BOT CH. | LL | = | 0.0 | PSF |
| | DL | = | 7.0 | PSF |
| TOTAL LOAD | | = | 33.3 | PSF |

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

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 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=0.10/1.00 (1-2:1) , BC=0.02/1.00 (4-5:4) , WB=0.00/1.00 (n/a:0) , SSI=0.07/1.00 (1-2:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.12 (2) (INPUT = 0.90 )
JSI METAL= 0.05 (2) (INPUT = 1.00 )

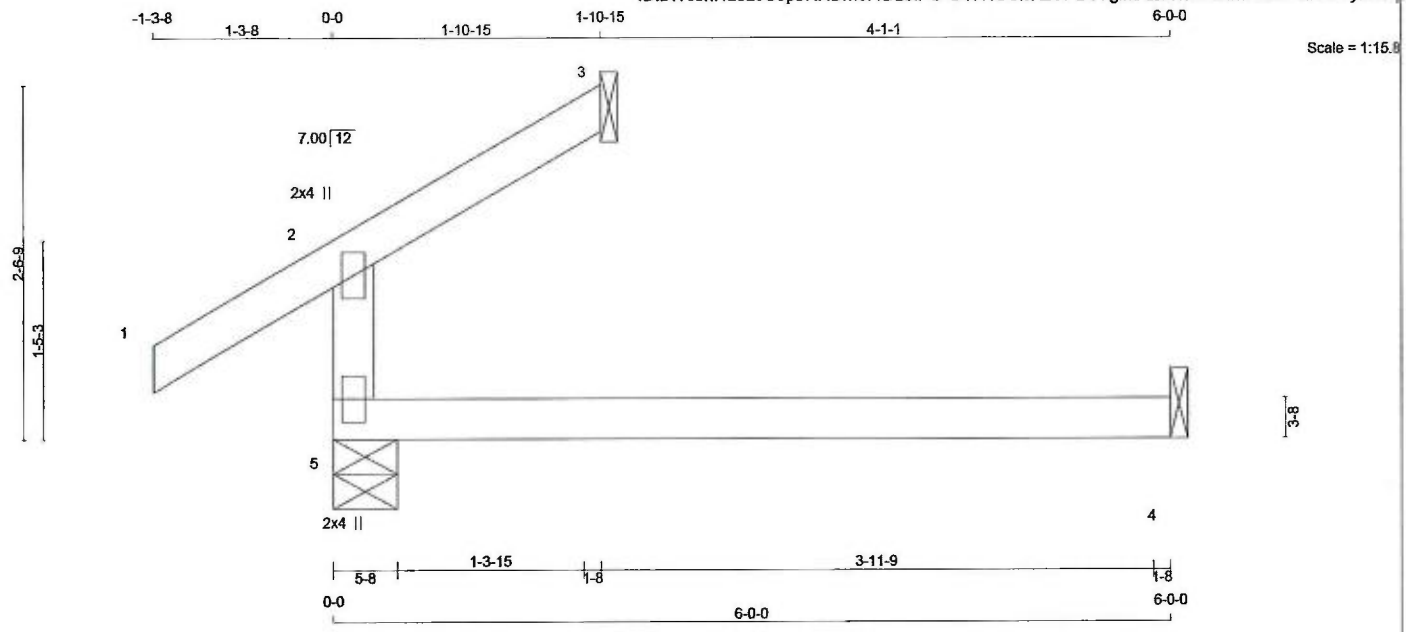
LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
PROVINCE OF ONTARIO
Aug 16, 2018

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS 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. |
|---|---|---|---|---|---|
| NE0818-105 | J03 | 2 | 1 | GREENPARK-MINNISALE HOMES-HEMLOCK 5C EL 2 | **PAGE 18 OF 49** |
| | | | | TRUSS DESC. | |

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Thu Aug 16 18:08:10 2018 Page 1
ID:bWeJhNa3z9S0pbNXDmof4Dz3iPU-G17NOSk?tzUPB1YglmAZcTnUBtHmovbS3mrOoTynCm




TOTAL WEIGHT = 2 X 12 = 25 lb [M]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 5 - 2 | 2x4 | DRY | No.2 | SPF |
| 1 - 3 | 2x4 | DRY | No.2 | SPF |
| 5 - 4 | 2x4 | DRY | No.2 | SPF |

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE | PLATES | W | LEN | Y | X |
|---|---|---|---|---|---|---|
| 2 | TMV+p | MT20 | 2.0 | 4.0 | | |
| 5 | 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 |
|---|---|---|---|---|---|---|---|
| 5 | 258 | 0 | 258 | 0 | 0 | 5-8 | 5-8 |
| 3 | 56 | 0 | 56 | 0 | 0 | 1-8 | 1-8 |
| 4 | 44 | 0 | 49 | 0 | 0 | 1-8 | 1-8 |

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) 3 , 4

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| 5 | 183 | 119 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 64 / 0 | 0 / 0 |
| 3 | 38 | 34 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 4 / 0 | 0 / 0 |
| 4 | 35 | 0 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 35 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 5, 3

**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 (PLF) FROM | TO | LC1 MAX CSI (LC) | WEBS MAX. UNBRAC LENGTH | MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
|---|---|---|---|---|---|---|---|---|
| 5- 2 | -197 / 0 | 0.0 | 0.0 | 0.12 (4) | 7.81 | | | |
| 1- 2 | 0 / 27 | -77.4 | -77.4 | 0.10 (1) | 10.00 | | | |
| 2- 3 | -9 / 0 | -77.4 | -77.4 | 0.05 (1) | 10.00 | | | |
| 5- 4 | 0 / 0 | -17.5 | -17.5 | 0.13 (4) | 10.00 | | | |

**DESIGN CRITERIA**

SPECIFIED LOADS:

| | | | | |
|---|---|---|---|---|
| TOP | CH. | LL = | 23.3 | PSF |
| | | DL = | 3.0 | PSF |
| BOT | CH. | LL = | 0.0 | PSF |
| | | DL = | 7.0 | PSF |
| TOTAL | LOAD | = | 33.3 | PSF |

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

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 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=0.12/1.00 (2-5:4) , BC=0.13/1.00 (4-5:4) , WB=0.00/1.00 (n/a:0) , SSI=0.08/1.00 (4-5:4)

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

COMPANION LIVE LOAD FACTOR = 0.50

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 | 618 | 354 | 1667 | 822 | 2284 | 1656 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.12 (2) (INPUT = 0.90 )
JSI METAL= 0.05 (2) (INPUT = 1.00 )

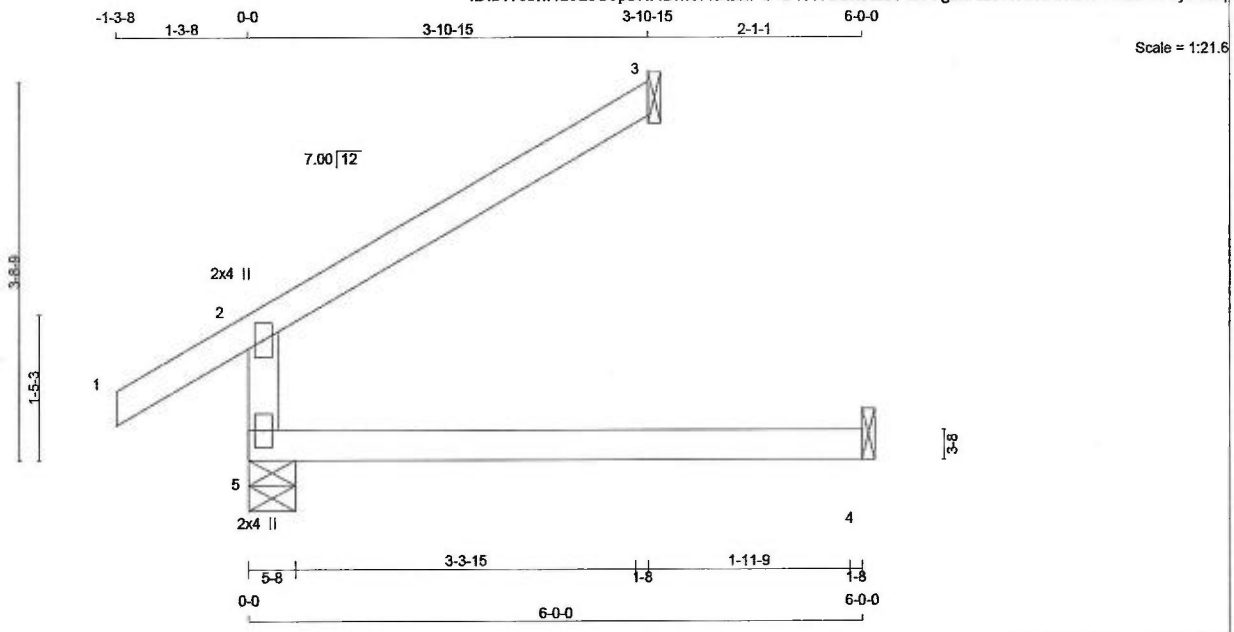
LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
PROVINCE OF ONTARIO
Aug 16, 2018

**READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS 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. |
|---|---|---|---|---|---|
| NE0818-105 | J04 | 2 | 1 | GREENPARK-MINNISALE HOMES-HEMLOCK 5C EL 2 TRUSS DESC. | **PAGE 19 OF 49** |

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Thu Aug 16 18:08:10 2018 Page 1
ID:bWeJhNa3z9S0pbNXDmof4Dz3iPU-G17NOSk?tzUPB1YglmAZcTnSvtHmovbS3mrOoTynCmp




TOTAL WEIGHT = 2 X 15 = 30 lb

[M]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 5 - 2 | 2x4 | DRY | No.2 | SPF |
| 1 - 3 | 2x4 | DRY | No.2 | SPF |
| 5 - 4 | 2x4 | DRY | No.2 | SPF |

DRY: SEASONED LUMBER.

**PLATES** (table is in inches)

| JT | TYPE | PLATES | W | LEN | Y | X |
|---|---|---|---|---|---|---|
| 2 | TMV+p | MT20 | 2.0 | 4.0 | | |
| 5 | 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 |
|---|---|---|---|---|---|---|---|
| 5 | 356 | 0 | 356 | 0 | 0 | 5-8 | 5-8 |
| 3 | 114 | 0 | 114 | 0 | 0 | 1-8 | 1-8 |
| 4 | 44 | 0 | 49 | 0 | 0 | 1-8 | 1-8 |

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) 3 , 4

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| 5 | 249 | 177 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 72 / 0 | 0 / 0 |
| 3 | 77 | 68 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 9 / 0 | 0 / 0 |
| 4 | 35 | 0 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 35 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 5, 3

**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) |
|---|---|---|---|---|---|---|---|---|
| 5-2 | -295 / 0 | 0.0 | 0.0 | 0.12 (4) | 7.81 | | | |
| 1-2 | 0 / 27 | -77.4 | -77.4 | 0.10 (1) | 10.00 | | | |
| 2-3 | -19 / 0 | -77.4 | -77.4 | 0.20 (1) | 6.25 | | | |
| 5-4 | 0 / 0 | -17.5 | -17.5 | 0.13 (4) | 10.00 | | | |

**DESIGN CRITERIA**

SPECIFIED LOADS:

| | | | | |
|---|---|---|---|---|
| TOP CH. | LL | = | 23.3 | PSF |
| | DL | = | 3.0 | PSF |
| BOT CH. | LL | = | 0.0 | PSF |
| | DL | = | 7.0 | PSF |
| TOTAL LOAD | | = | 33.3 | PSF |

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

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 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=0.20/1.00 (2-3:1) , BC=0.13/1.00 (4-5:4) , WB=0.00/1.00 (n/a:0) , SSI=0.13/1.00 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.18 (2) (INPUT = 0.90 )
JSI METAL= 0.07 (2) (INPUT = 1.00 )

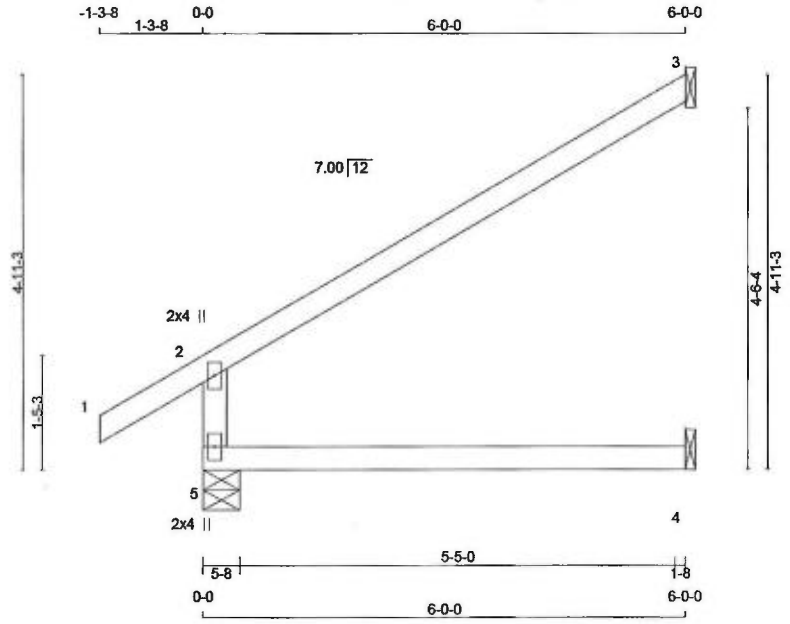
LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
PROVINCE OF ONTARIO
Aug 16, 2018

**READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS 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. | GREENPARK-MINNISALE HOMES-HEMLOCK 5C EL 2 | DRWG NO. |
|---|---|---|---|---|---|---|
| NE0818-105 | J05 | 13 | 1 | TRUSS DESC. | | **PAGE 20 OF 49** |

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Thu Aug 16 18:08:10 2018 Page 1
ID:bWeJhNa3z9S0pbNXDmof4Dz3iPU-G17NOSk?tzUPB1YglmAZcTnOdtHmovbS3mrOoTynCmp




TOTAL WEIGHT = 13 X 18 = 231 lb [M]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 5 - 2 | 2x4 | DRY | No.2 | SPF |
| 1 - 3 | 2x4 | DRY | No.2 | SPF |
| 5 - 4 | 2x4 | DRY | No.2 | SPF |

DRY: SEASONED LUMBER.

**PLATES** (table is in inches)

| JT | TYPE | PLATES | W | LEN | Y | X |
|---|---|---|---|---|---|---|
| 2 | TMV+p | MT20 | 2.0 | 4.0 | | |
| 5 | 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 |
|---|---|---|---|---|---|---|---|
| 5 | 457 | 0 | 457 | 0 | 0 | 5-8 | 5-8 |
| 3 | 174 | 0 | 174 | 0 | 0 | 1-8 | 1-8 |
| 4 | 44 | 0 | 49 | 0 | 0 | 1-8 | 1-8 |

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) 3 , 4

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| 5 | 318 | 238 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 79 / 0 | 0 / 0 |
| 3 | 118 | 105 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 14 / 0 | 0 / 0 |
| 4 | 35 | 0 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 35 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 5

**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) |
|---|---|---|---|---|---|---|---|---|
| 5- 2 | -396 / 0 | 0.0 | 0.0 | 0.12 (4) | 7.81 | | | |
| 1- 2 | 0 / 27 | -77.4 | -77.4 | 0.10 (1) | 10.00 | | | |
| 2- 3 | -29 / 0 | -77.4 | -77.4 | 0.47 (1) | 6.25 | | | |
| 5- 4 | 0 / 0 | -17.5 | -17.5 | 0.13 (4) | 10.00 | | | |

**DESIGN CRITERIA**

SPECIFIED LOADS:

| | | | | |
|---|---|---|---|---|
| TOP CH. | LL | = | 23.3 | PSF |
| | DL | = | 3.0 | PSF |
| BOT CH. | LL | = | 0.0 | PSF |
| | DL | = | 7.0 | PSF |
| TOTAL LOAD | | = | 33.3 | PSF |

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

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 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=0.47/1.00 (2-3:1) , BC=0.13/1.00 (4-5:4) , WB=0.00/1.00 (n/a:0) , SSI=0.20/1.00 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.24 (2) (INPUT = 0.90 )
JSI METAL= 0.09 (2) (INPUT = 1.00 )

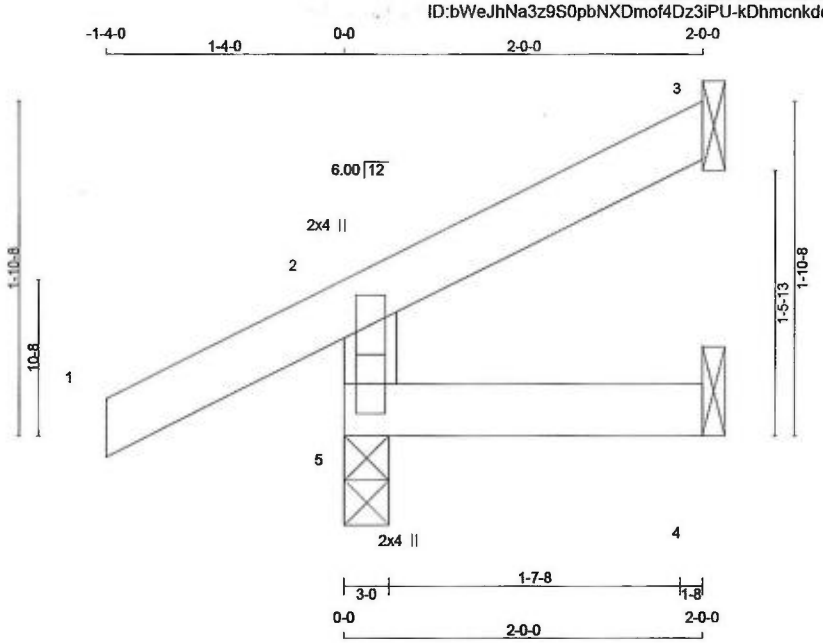
LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
PROVINCE OF ONTARIO
Aug 16, 2018

**READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS 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. |
|---|---|---|---|---|---|
| NE0818-105 | J09 | 2 | 1 | GREENPARK-MINNISALE HOMES-HEMLOCK 5C EL 2 TRUSS DESC. | PAGE 21 OF 49 |

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Thu Aug 16 18:08:11 2018 Page 1
ID:bWeJhNa3z9S0pbNXDmof4Dz3iPU-kDhmcnkdeHcFoB7tJUio9hJe7HeoXMrblQbyKvynCm




TOTAL WEIGHT = 2 X 7 = 14 lb [M]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 5 - 2 | 2x4 | DRY | No.2 | SPF |
| 1 - 3 | 2x4 | DRY | No.2 | SPF |
| 5 - 4 | 2x4 | DRY | No.2 | SPF |

DRY: SEASONED LUMBER.

**PLATES** (table is in inches)

| JT | TYPE | PLATES | W | LEN | Y | X |
|---|---|---|---|---|---|---|
| 2 | TMV+p | MT20 | 2.0 | 4.0 | | |
| 5 | 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 |
|---|---|---|---|---|---|---|---|
| 5 | 224 | 0 | 224 | 0 | 0 | 3-0 | 3-0 |
| 3 | 58 | 0 | 58 | 0 | 0 | 1-8 | 1-8 |
| 4 | 15 | 0 | 17 | 0 | 0 | 1-8 | 1-8 |

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) 3 , 4

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| 5 | 155 | 123 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 32 / 0 | 0 / 0 |
| 3 | 40 | 35 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 5 / 0 | 0 / 0 |
| 4 | 12 | 0 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 12 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 5

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

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

**LOADING**
TOTAL LOAD CASES: (5)

| CHORDS MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) FROM | TO | LC | MAX CSI | MAX. UNBRAC LENGTH | WEBS MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
|---|---|---|---|---|---|---|---|---|---|
| 5- 2 | -205 / 0 | 0.0 | 0.0 | 0.01 (4) | | 7.81 | | | |
| 1- 2 | 0 / 24 | -77.4 | -77.4 | 0.11 (1) | | 10.00 | | | |
| 2- 3 | -9 / 0 | -77.4 | -77.4 | 0.05 (1) | | 10.00 | | | |
| 5- 4 | 0 / 0 | -17.5 | -17.5 | 0.02 (4) | | 10.00 | | | |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

**DESIGN CRITERIA**

SPECIFIED LOADS:

| | | | |
|---|---|---|---|
| TOP CH. | LL = | 23.3 | PSF |
| | DL = | 3.0 | PSF |
| BOT CH. | LL = | 0.0 | PSF |
| | DL = | 7.0 | PSF |
| TOTAL LOAD | = | 33.3 | PSF |

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

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 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=0.11/1.00 (1-2:1) , BC=0.02/1.00 (4-5:4) , WB=0.00/1.00 (n/a:0) , SSI=0.08/1.00 (1-2:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.12 (2) (INPUT = 0.90 )
JSI METAL= 0.05 (2) (INPUT = 1.00 )

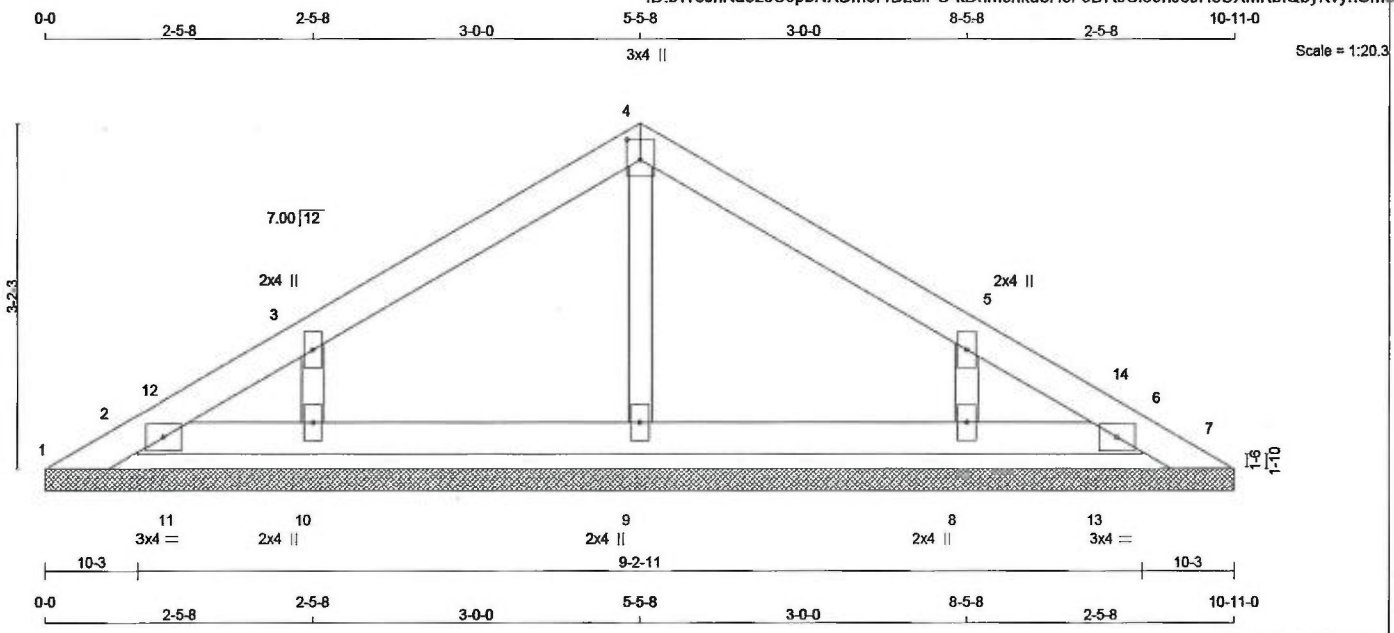
LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
PROVINCE OF ONTARIO
Aug 16, 2018

**READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS 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. |
|---|---|---|---|---|---|
| NE0818-105 | P01 | 1 | 1 | GREENPARK-MINNISALE HOMES-HEMLOCK 5C EL 2 TRUSS DESC. | **PAGE 22 OF 49** |

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Thu Aug 16 18:08:11 2018 Page 1
ID:bWeJhNa3z9S0pbNXDmof4Dz3iPU-kDhmcnkdeHcFoB7tJUio9hJeJHeUXMKbIQbyKvynCm




TOTAL WEIGHT = 28 lb [M]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 1 - 4 | 2x4 | DRY | No.2 | SPF |
| 4 - 7 | 2x4 | DRY | No.2 | SPF |
| 2 - 6 | 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 3-0-0 OC.

**PLATES (table is in inches)**

| JT | TYPE | PLATES | W | LEN | Y | X |
|---|---|---|---|---|---|---|
| 2 | TMB1-I | MT20 | 3.0 | 4.0 | | |
| 3 | TMW+w | MT20 | 2.0 | 4.0 | | |
| 4 | TTW+p | MT20 | 3.0 | 4.0 | 2.25 | 1.50 |
| 5 | TMW+w | MT20 | 2.0 | 4.0 | | |
| 6 | TMB1-I | MT20 | 3.0 | 4.0 | | |
| 8, 9, 10 | | | | | | |
| 8 | BMW1+w | 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.

BEVELED PLATE OR SHIM REQUIRED TO PROVIDE FULL BEARING SURFACE WITH TRUSS CHORD AT JT(S): 9 , 10 , 8
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) |
|---|---|---|---|---|---|---|---|---|---|
| 1- 2 | 0 / 0 | -94.9 | -94.9 | 0.01 (1) | 10.00 | 9- 4 | -165 / 0 | 0.03 (1) | |
| 2-12 | -61 / 0 | -77.4 | -77.4 | 0.01 (1) | 6.25 | 10- 3 | -241 / 0 | 0.03 (1) | |
| 12- 3 | -16 / 0 | -77.4 | -77.4 | 0.09 (1) | 6.25 | 8- 5 | -241 / 0 | 0.03 (1) | |
| 3- 4 | -38 / 0 | -77.4 | -77.4 | 0.09 (1) | 6.25 | 11-12 | 0 / 27 | 0.00 (1) | |
| 4- 5 | -38 / 0 | -77.4 | -77.4 | 0.09 (1) | 6.25 | 13-14 | 0 / 27 | 0.00 (1) | |
| 5-14 | -16 / 0 | -77.4 | -77.4 | 0.09 (1) | 6.25 | | | | |
| 14- 6 | -61 / 0 | -77.4 | -77.4 | 0.01 (1) | 6.25 | | | | |
| 6- 7 | 0 / 0 | -94.9 | -94.9 | 0.01 (1) | 10.00 | | | | |
| 2-11 | 0 / 42 | -17.5 | -17.5 | 0.01 (1) | 10.00 | | | | |
| 11-10 | 0 / 42 | -17.5 | -17.5 | 0.02 (4) | 10.00 | | | | |
| 10- 9 | 0 / 23 | -17.5 | -17.5 | 0.04 (4) | 10.00 | | | | |
| 9- 8 | 0 / 23 | -17.5 | -17.5 | 0.04 (4) | 10.00 | | | | |
| 8-13 | 0 / 42 | -17.5 | -17.5 | 0.02 (4) | 10.00 | | | | |
| 13- 6 | 0 / 42 | -17.5 | -17.5 | 0.01 (1) | 10.00 | | | | |

**DESIGN CRITERIA**

SPECIFIED LOADS:

| | | | | |
|---|---|---|---|---|
| TOP CH. | LL | = | 23.3 | PSF |
| | DL | = | 3.0 | PSF |
| BOT CH. | LL | = | 0.0 | PSF |
| | DL | = | 7.0 | PSF |
| TOTAL LOAD | | = | 33.3 | PSF |

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.09/1.00 (3-4:1) , BC=0.04/1.00 (9-10:4) , WB=0.03/1.00 (3-10:1) , SSI=0.10/1.00 (3-4:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.16 (3) (INPUT = 0.90 )
JSI METAL= 0.06 (3) (INPUT = 1.00 )

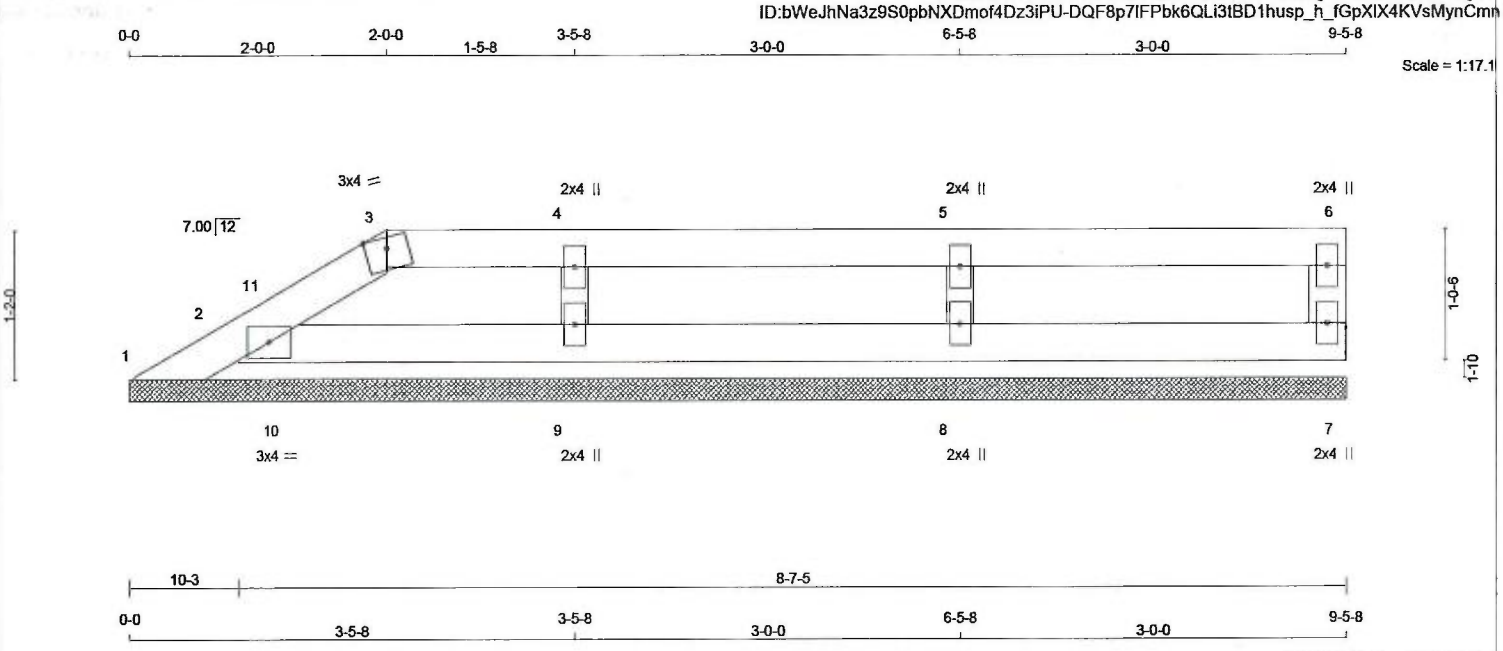
LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
PROVINCE OF ONTARIO
Aug 16, 2018

**READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS 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. | GREENPARK-MINNISALE HOMES-HEMLOCK 5C EL 2 | DRWG NO. |
|---|---|---|---|---|---|---|
| NE0818-105 | P04 | 2 | 1 | TRUSS DESC. | | **PAGE 23 OF 49** |

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Thu Aug 16 18:08:12 2018 Page 1
ID:bWeJhNa3z9S0pbNXDmof4Dz3iPU-DQF8p7IFPbk6QLi3tBD1husp_h_fGpXIX4KVsMynCmn




TOTAL WEIGHT = 2 X 22 = 44 lb [M]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 1 - 3 | 2x4 | DRY | No.2 | SPF |
| 3 - 6 | 2x4 | DRY | No.2 | SPF |
| 7 - 6 | 2x4 | DRY | No.2 | SPF |
| 2 - 7 | 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 3-0-0 OC.

**PLATES (table is in inches)**

| JT | TYPE | PLATES | W | LEN | Y | X |
|---|---|---|---|---|---|---|
| 2 | TMB1-I | MT20 | 3.0 | 4.0 | | |
| 3 | TT-m | MT20 | 3.0 | 4.0 | Edge | |
| 4 | TMW+w | MT20 | 2.0 | 4.0 | | |
| 5 | TMW+w | MT20 | 2.0 | 4.0 | | |
| 6 | TMV+p | MT20 | 2.0 | 4.0 | | |
| 7 | BMV1+p | MT20 | 2.0 | 4.0 | | |
| 8 | BMW1+w | MT20 | 2.0 | 4.0 | | |
| 9 | BMW1+w | MT20 | 2.0 | 4.0 | | |

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

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

**BEARINGS**

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

BEVELED PLATE OR SHIM REQUIRED TO PROVIDE FULL BEARING SURFACE WITH TRUSS CHORD AT JT(S): 7 , 8 , 9

PROVIDE ANCHORAGE AT BEARING JOINT 1 FOR 150 LBS FACTORED UPLIFT
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 |
|---|---|---|---|---|---|
| 1- 2 | 0 / 29 | -94.9 | -94.9 | 0.07 (1) | 10.00 |
| 2-11 | -14 / 0 | -77.4 | -77.4 | 0.06 (1) | 6.25 |
| 11- 3 | -24 / 0 | -77.4 | -77.4 | 0.05 (1) | 6.25 |
| 3- 4 | 0 / 0 | -77.4 | -77.4 | 0.08 (1) | 10.00 |
| 4- 5 | 0 / 0 | -77.4 | -77.4 | 0.10 (1) | 10.00 |
| 5- 6 | 0 / 0 | -77.4 | -77.4 | 0.10 (1) | 10.00 |
| 7- 6 | -92 / 0 | 0.0 | 0.0 | 0.01 (1) | 7.81 |
| 2-10 | 0 / 0 | -17.5 | -17.5 | 0.03 (1) | 10.00 |
| 10- 9 | 0 / 0 | -17.5 | -17.5 | 0.03 (1) | 10.00 |
| 9- 8 | 0 / 0 | -17.5 | -17.5 | 0.04 (4) | 10.00 |
| 8- 7 | 0 / 0 | -17.5 | -17.5 | 0.04 (4) | 10.00 |

| WEBS MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
|---|---|---|
| 8- 5 | -261 / 0 | 0.04 (1) |
| 9- 4 | -208 / 0 | 0.03 (1) |
| 10-11 | -69 / 15 | 0.00 (1) |

**DESIGN CRITERIA**

SPECIFIED LOADS:

| | | | | |
|---|---|---|---|---|
| TOP CH. | LL | = | 23.3 | PSF |
| | DL | = | 3.0 | PSF |
| BOT CH. | LL | = | 0.0 | PSF |
| | DL | = | 7.0 | PSF |
| TOTAL LOAD | | = | 33.3 | PSF |

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

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.10/1.00 (4-5:1) , BC=0.04/1.00 (7-8:4) , WB=0.04/1.00 (5-8:1) , SSI=0.11/1.00 (5-6:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.15 (2) (INPUT = 0.90 )
JSI METAL= 0.05 (5) (INPUT = 1.00 )

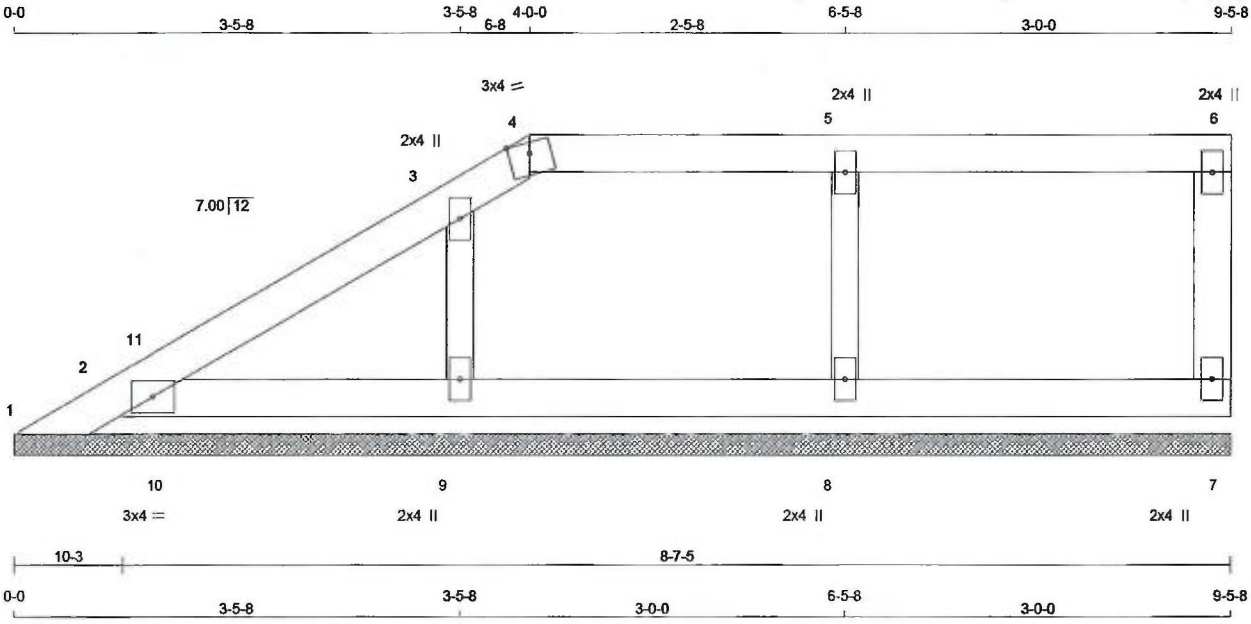
LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
PROVINCE OF ONTARIO
Aug 16, 2018

**READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS 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. |
|---|---|---|---|---|---|
| NE0818-105 | P05 | 2 | 1 | GREENPARK-MINNISALE HOMES-HEMLOCK 5C EL 2 TRUSS DESC. | **PAGE 24 OF 49** |

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Thu Aug 16 18:08:12 2018 Page 1
ID:bWeJhNa3z9S0pbNXDmof4Dz3iPU-DQF8p7IFPbk6QLi3tBD1huspvh_fGpTIX4KVsMynCmn




TOTAL WEIGHT = 2 X 26 = 51 lb [M]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 1 - 4 | 2x4 | DRY | No.2 | SPF |
| 4 - 6 | 2x4 | DRY | No.2 | SPF |
| 7 - 6 | 2x4 | DRY | No.2 | SPF |
| 2 - 7 | 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 3-0-0 OC.

**PLATES (table Is In Inches)**

| JT | TYPE | PLATES | W | LEN | Y | X |
|---|---|---|---|---|---|---|
| 2 | TMB1-I | MT20 | 3.0 | 4.0 | | |
| 3 | TMW+w | MT20 | 2.0 | 4.0 | | |
| 4 | TT-m | MT20 | 3.0 | 4.0 | Edge | |
| 5 | TMW+w | MT20 | 2.0 | 4.0 | | |
| 6 | TMV+p | MT20 | 2.0 | 4.0 | | |
| 7 | BMV1+p | MT20 | 2.0 | 4.0 | | |
| 8 | BMW1+w | MT20 | 2.0 | 4.0 | | |
| 9 | BMW1+w | MT20 | 2.0 | 4.0 | | |

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

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

**BEARINGS**

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

BEVELED PLATE OR SHIM REQUIRED TO PROVIDE FULL BEARING SURFACE WITH TRUSS CHORD AT JT(S): 7 , 8 , 9

PROVIDE ANCHORAGE AT BEARING JOINT 1 FOR 150 LBS FACTORED UPLIFT
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 | LC | MAX CSI (LC) | MAX. UNBRAC LENGTH | WEBS MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
|---|---|---|---|---|---|---|---|---|---|
| 1- 2 | 0 / 16 | -94.9 | -94.9 | 0.04 | (1) | 10.00 | 8- 5 | -267 / 0 | 0.04 (1) |
| 2-11 | -48 / 0 | -77.4 | -77.4 | 0.04 | (1) | 6.25 | 9- 3 | -213 / 0 | 0.03 (1) |
| 11- 3 | 0 / 0 | -77.4 | -77.4 | 0.07 | (1) | 10.00 | 10-11 | -14 / 24 | 0.00 (1) |
| 3- 4 | -45 / 0 | -77.4 | -77.4 | 0.07 | (1) | 6.25 | | | |
| 4- 5 | 0 / 0 | -77.4 | -77.4 | 0.10 | (1) | 10.00 | | | |
| 5- 6 | 0 / 0 | -77.4 | -77.4 | 0.10 | (1) | 10.00 | | | |
| 7- 6 | -91 / 0 | 0.0 | 0.0 | 0.01 | (1) | 7.81 | | | |
| 2-10 | 0 / 10 | -17.5 | -17.5 | 0.01 | (1) | 10.00 | | | |
| 10- 9 | 0 / 10 | -17.5 | -17.5 | 0.03 | (4) | 10.00 | | | |
| 9- 8 | 0 / 0 | -17.5 | -17.5 | 0.04 | (4) | 10.00 | | | |
| 8- 7 | 0 / 0 | -17.5 | -17.5 | 0.04 | (4) | 10.00 | | | |

**DESIGN CRITERIA**

SPECIFIED LOADS:

| | | | | |
|---|---|---|---|---|
| TOP CH. | LL | = | 23.3 | PSF |
| | DL | = | 3.0 | PSF |
| BOT CH. | LL | = | 0.0 | PSF |
| | DL | = | 7.0 | PSF |
| TOTAL LOAD | | = | 33.3 | PSF |

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

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.10/1.00 (4-5:1) , BC=0.04/1.00 (7-8:4) , WB=0.04/1.00 (5-8:1) , SSI=0.11/1.00 (5-6:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

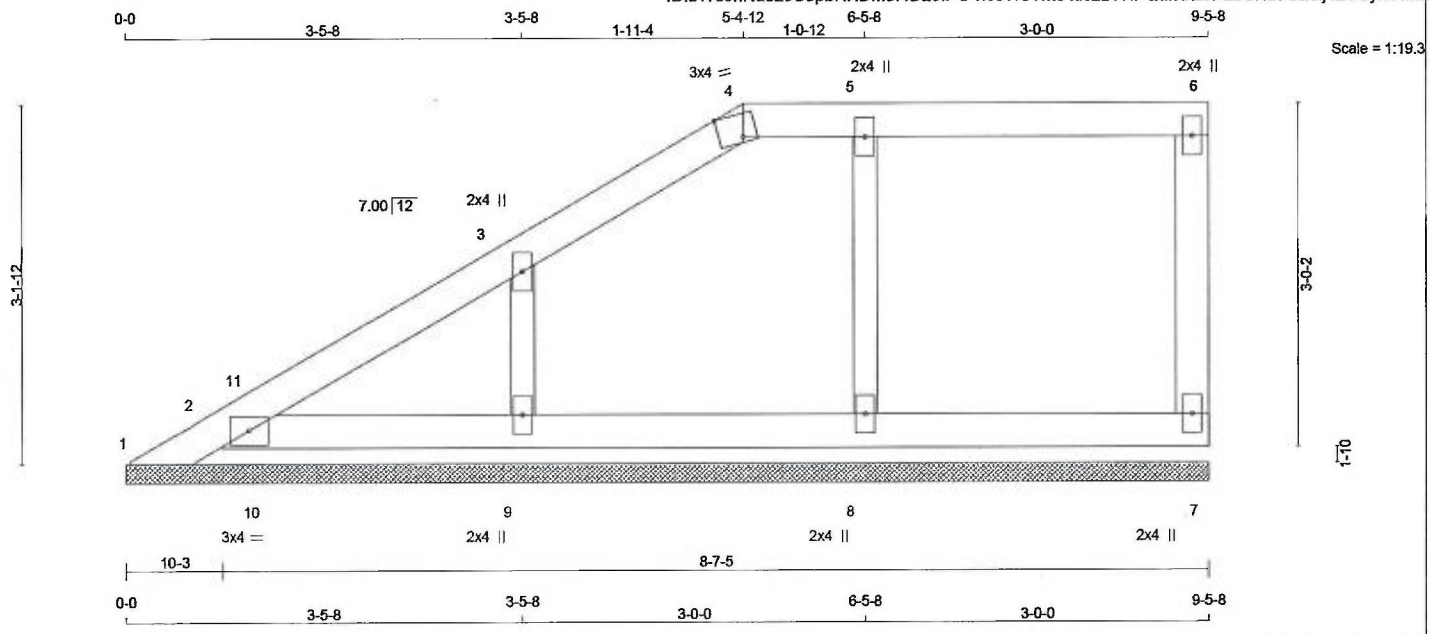
JSI GRIP= 0.14 (8) (INPUT = 0.90 )
JSI METAL= 0.05 (3) (INPUT = 1.00 )


**READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS 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. | GREENPARK-MINNISALE HOMES-HEMLOCK 5C EL 2 | DRWG NO. |
|---|---|---|---|---|---|---|
| NE0818-105 | P06 | 1 | 1 | TRUSS DESC. | | **PAGE 25 OF 49** |

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Thu Aug 16 18:08:13 2018 Page 1
ID:bWeJhNa3z9S0pbNXDmof4Dz3iPU-hcoW0TmtAusz2VHFQukGE6PzD5Ku?Gaulj42OoynCmm




TOTAL WEIGHT = 27 lb

[M]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 1 - 4 | 2x4 | DRY | No.2 | SPF |
| 4 - 6 | 2x4 | DRY | No.2 | SPF |
| 7 - 6 | 2x4 | DRY | No.2 | SPF |
| 2 - 7 | 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 3-0-0 OC.

**PLATES (table is in inches)**

| JT | TYPE | PLATES | W | LEN | Y | X |
|---|---|---|---|---|---|---|
| 2 | TMB1-I | MT20 | 3.0 | 4.0 | | |
| 3 | TMW+w | MT20 | 2.0 | 4.0 | | |
| 4 | TT-m | MT20 | 3.0 | 4.0 | Edge | 2.50 |
| 5 | TMW+w | MT20 | 2.0 | 4.0 | | |
| 6 | TMV+p | MT20 | 2.0 | 4.0 | | |
| 7 | BMV1+p | MT20 | 2.0 | 4.0 | | |
| 8 | BMW1+w | MT20 | 2.0 | 4.0 | | |
| 9 | BMW1+w | MT20 | 2.0 | 4.0 | | |

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

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

**BEARINGS**

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

BEVELED PLATE OR SHIM REQUIRED TO PROVIDE FULL BEARING SURFACE WITH TRUSS CHORD AT JT(S): 7 , 8 , 9
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) |
|---|---|---|---|---|---|---|---|---|
| 1- 2 | 0 / 16 | -94.9 | -94.9 | 0.04 (1) | 10.00 | 8- 5 | -280 / 0 | 0.05 (1) |
| 2-11 | -47 / 0 | -77.4 | -77.4 | 0.03 (1) | 6.25 | 9- 3 | -209 / 0 | 0.03 (1) |
| 11- 3 | 0 / 0 | -77.4 | -77.4 | 0.08 (1) | 10.00 | 10-11 | -12 / 25 | 0.00 (1) |
| 3- 4 | -14 / 0 | -77.4 | -77.4 | 0.08 (1) | 6.25 | | | |
| 4- 5 | 0 / 0 | -77.4 | -77.4 | 0.13 (1) | 10.00 | | | |
| 5- 6 | 0 / 0 | -77.4 | -77.4 | 0.13 (1) | 10.00 | | | |
| 7- 6 | -84 / 0 | 0.0 | 0.0 | 0.01 (1) | 7.81 | | | |
| 2-10 | 0 / 10 | -17.5 | -17.5 | 0.01 (1) | 10.00 | | | |
| 10- 9 | 0 / 10 | -17.5 | -17.5 | 0.03 (4) | 10.00 | | | |
| 9- 8 | 0 / 0 | -17.5 | -17.5 | 0.04 (4) | 10.00 | | | |
| 8- 7 | 0 / 0 | -17.5 | -17.5 | 0.04 (4) | 10.00 | | | |

**DESIGN CRITERIA**

SPECIFIED LOADS:

| | | | | |
|---|---|---|---|---|
| TOP CH. | LL | = | 23.3 | PSF |
| | DL | = | 3.0 | PSF |
| BOT CH. | LL | = | 0.0 | PSF |
| | DL | = | 7.0 | PSF |
| TOTAL LOAD | | = | 33.3 | PSF |

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

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.13/1.00 (4-5:1) , BC=0.04/1.00 (7-8:4) , WB=0.05/1.00 (5-8:1) , SSI=0.12/1.00 (5-6:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.15 (4) (INPUT = 0.90 )
JSI METAL= 0.05 (8) (INPUT = 1.00 )

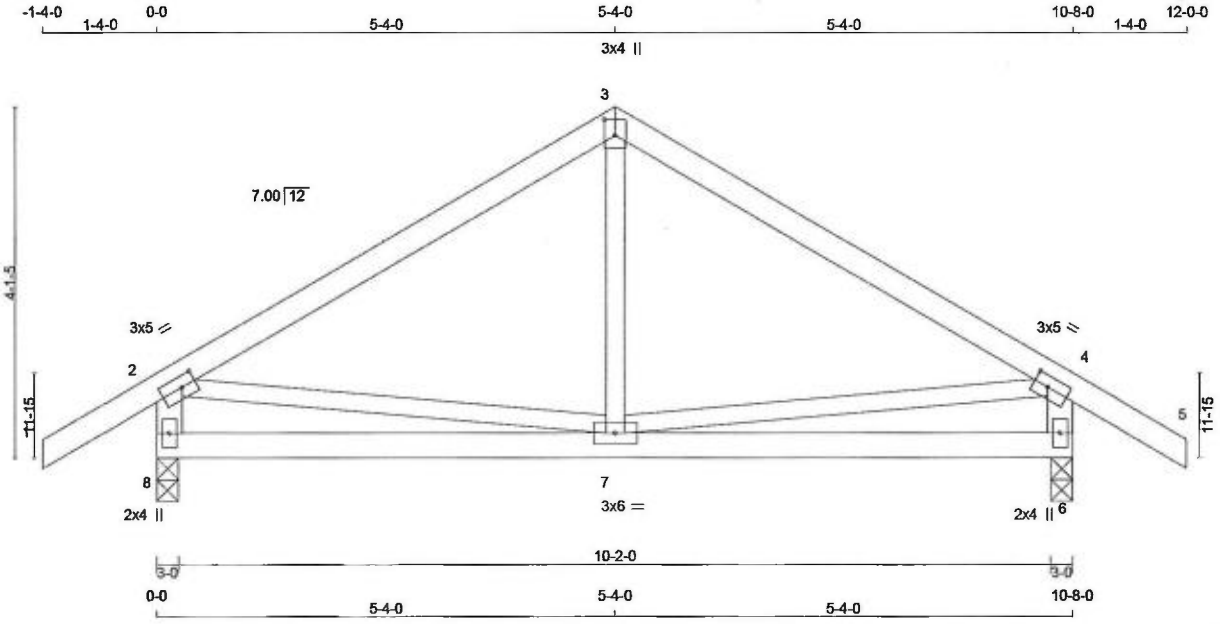
LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
PROVINCE OF ONTARIO
Aug 16, 2018

**READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS 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. | GREENPARK-MINNISALE HOMES-HEMLOCK 5C EL 2 | DRWG NO. |
|---|---|---|---|---|---|---|
| NE0818-105 | T01 | 1 | 1 | TRUSS DESC. | | **PAGE 26 OF 49** |

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Thu Aug 16 18:08:13 2018 Page 1
ID:bWeJhNa3z9S0pbNXDmof4Dz3iPU-hcoW0TmtAusz2VHFQukGE6Pxq5IJ?F1ulj42OoynCmm




TOTAL WEIGHT = 42 lb

[M][F]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 1 - 3 | 2x4 | DRY | No.2 | SPF |
| 3 - 5 | 2x4 | DRY | No.2 | SPF |
| 8 - 2 | 2x4 | DRY | No.2 | SPF |
| 6 - 4 | 2x4 | DRY | No.2 | SPF |
| 8 - 6 | 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 |
|---|---|---|---|---|---|---|
| 2 | TMVW-t | MT20 | 3.0 | 5.0 | 1.50 | 2.00 |
| 3 | TTW+p | MT20 | 3.0 | 4.0 | 2.25 | 1.50 |
| 4 | TMVW-t | MT20 | 3.0 | 5.0 | 1.50 | 2.00 |
| 6 | BMV1+p | MT20 | 2.0 | 4.0 | | |
| 7 | BMWWW-t | MT20 | 3.0 | 6.0 | | |
| 8 | 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 |
|---|---|---|---|---|---|---|---|
| 8 | 615 | 0 | 615 | 0 | 0 | 3-0 | 3-0 |
| 6 | 615 | 0 | 615 | 0 | 0 | 3-0 | 3-0 |

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| 8 | 429 | 314 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 115 / 0 | 0 / 0 |
| 6 | 429 | 314 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 115 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 8, 6

**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) |
|---|---|---|---|---|---|---|---|---|
| 1-2 | 0 / 27 | -77.4 | -77.4 | 0.11 (1) | 10.00 | 7-3 | 0 / 98 | 0.03 (4) |
| 2-3 | -429 / 0 | -77.4 | -77.4 | 0.28 (1) | 6.25 | 2-7 | 0 / 373 | 0.08 (1) |
| 3-4 | -429 / 0 | -77.4 | -77.4 | 0.28 (1) | 6.25 | 7-4 | 0 / 373 | 0.08 (1) |
| 4-5 | 0 / 27 | -77.4 | -77.4 | 0.11 (1) | 10.00 | | | |
| 8-2 | -579 / 0 | 0.0 | 0.0 | 0.06 (1) | 7.81 | | | |
| 6-4 | -579 / 0 | 0.0 | 0.0 | 0.06 (1) | 7.81 | | | |
| 8-7 | 0 / 0 | -17.5 | -17.5 | 0.14 (4) | 10.00 | | | |
| 7-6 | 0 / 0 | -17.5 | -17.5 | 0.14 (4) | 10.00 | | | |

**DESIGN CRITERIA**

SPECIFIED LOADS:

| | | | | |
|---|---|---|---|---|
| TOP CH. | LL | = | 23.3 | PSF |
| | DL | = | 3.0 | PSF |
| BOT CH. | LL | = | 0.0 | PSF |
| | DL | = | 7.0 | PSF |
| TOTAL LOAD | | = | 33.3 | PSF |

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.36")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.36")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.02")

CSI: TC=0.28/1.00 (3-4:1) , BC=0.14/1.00 (7-8:4) , WB=0.08/1.00 (2-7:1) , SSI=0.14/1.00 (3-4:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.74 (7) (INPUT = 0.90 )
JSI METAL= 0.18 (4) (INPUT = 1.00 )

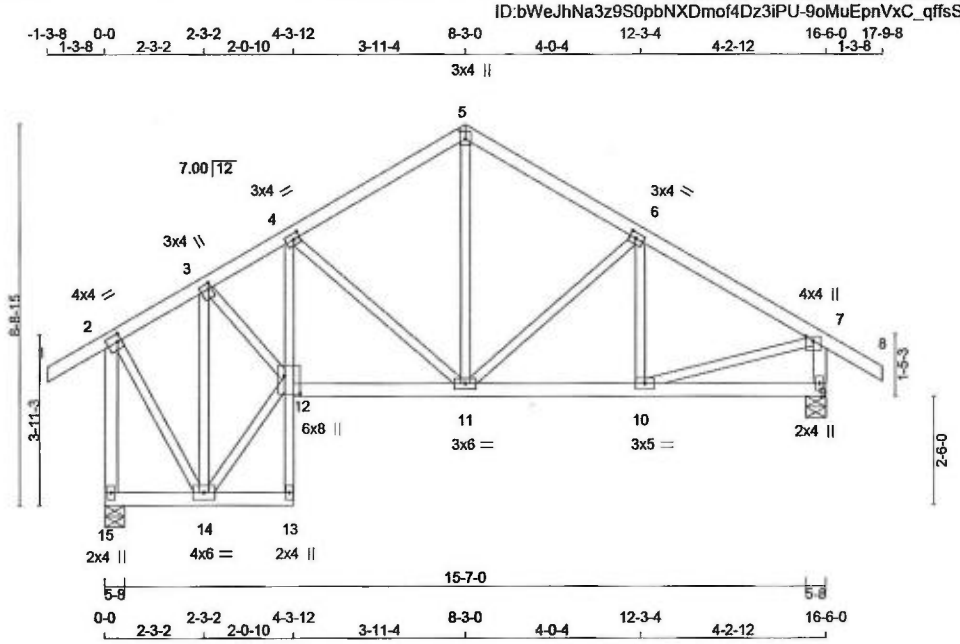
LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
PROVINCE OF ONTARIO
Aug 16, 2018

**READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS 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. | GREENPARK-MINNISALE HOMES-HEMLOCK 5C EL 2 | DRWG NO. |
|---|---|---|---|---|---|---|
| NE0818-105 | T03 | 1 | 1 | TRUSS DESC. | | **PAGE 27 OF 49** |

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Thu Aug 16 18:08:14 2018 Page 1
ID:bWeJhNa3z9S0pbNXDmof4Dz3iPU-9oMuEpnVxC_qffsS_cFVnJx7ZVeAket2_NpcxEynCm




TOTAL WEIGHT = 85 lb

[M][F]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 1 - 5 | 2x4 | DRY | No.2 | SPF |
| 5 - 8 | 2x4 | DRY | No.2 | SPF |
| 15 - 2 | 2x4 | DRY | No.2 | SPF |
| 9 - 7 | 2x4 | DRY | No.2 | SPF |
| 15 - 13 | 2x4 | DRY | No.2 | SPF |
| 13 - 4 | 2x3 | DRY | No.2 | SPF |
| 12 - 9 | 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 |
|---|---|---|---|---|---|---|
| 2 | TMVW-t | MT20 | 4.0 | 4.0 | 2.00 | 1.00 |
| 3 | TMWW+t | MT20 | 3.0 | 4.0 | 1.50 | 0.75 |
| 4 | TMVW-t | MT20 | 3.0 | 4.0 | 1.50 | 1.75 |
| 5 | TTW+p | MT20 | 3.0 | 4.0 | 2.25 | 1.50 |
| 6 | TMWW-t | MT20 | 3.0 | 4.0 | 1.50 | 1.75 |
| 7 | TMVW+p | MT20 | 4.0 | 4.0 | 1.25 | 2.00 |
| 9 | BMV1+p | MT20 | 2.0 | 4.0 | | |
| 10 | BMWW-t | MT20 | 3.0 | 5.0 | | |
| 11 | BMWWW-t | MT20 | 3.0 | 6.0 | | |
| 12 | BVMWW+p | MT20 | 6.0 | 8.0 | 5.00 | 4.25 |
| 13 | BMV+p | MT20 | 2.0 | 4.0 | | |
| 14 | BMWWW-t | MT20 | 4.0 | 6.0 | | |
| 15 | 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 |
|---|---|---|---|---|---|---|---|
| 15 | 888 | 0 | 888 | 0 | 0 | 5-8 | 5-8 |
| 9 | 888 | 0 | 888 | 0 | 0 | 5-8 | 5-8 |

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| 15 | 621 | 448 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 173 / 0 | 0 / 0 |
| 9 | 621 | 448 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 173 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 15, 9

**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) |
|---|---|---|---|---|---|---|---|---|
| 1-2 | 0 / 27 | -77.4 | -77.4 | 0.10 (1) | 10.00 | 14-3 | -892 / 0 | 0.37 (1) |
| 2-3 | -359 / 0 | -77.4 | -77.4 | 0.06 (1) | 6.25 | 14-12 | 0 / 536 | 0.12 (1) |
| 3-4 | -873 / 0 | -77.4 | -77.4 | 0.12 (1) | 6.25 | 3-12 | 0 / 697 | 0.16 (1) |
| 4-5 | -649 / 0 | -77.4 | -77.4 | 0.15 (1) | 6.25 | 4-11 | -310 / 0 | 0.15 (1) |
| 5-6 | -655 / 0 | -77.4 | -77.4 | 0.17 (1) | 6.25 | 11-5 | 0 / 393 | 0.09 (1) |
| 6-7 | -833 / 0 | -77.4 | -77.4 | 0.17 (1) | 6.25 | 11-6 | -249 / 0 | 0.12 (1) |
| 7-8 | 0 / 27 | -77.4 | -77.4 | 0.10 (1) | 10.00 | 10-6 | -120 / 31 | 0.03 (1) |
| 15-2 | -871 / 0 | 0.0 | 0.0 | 0.22 (1) | 7.81 | 2-14 | 0 / 583 | 0.13 (1) |
| 9-7 | -856 / 0 | 0.0 | 0.0 | 0.09 (1) | 7.81 | 10-7 | 0 / 760 | 0.17 (1) |
| 15-14 | 0 / 0 | -17.5 | -17.5 | 0.02 (4) | 10.00 | | | |
| 14-13 | 0 / 3 | -17.5 | -17.5 | 0.02 (4) | 10.00 | | | |
| 13-12 | 0 / 14 | 0.0 | 0.0 | 0.03 (1) | 10.00 | | | |
| 12-4 | 0 / 50 | 0.0 | 0.0 | 0.03 (1) | 10.00 | | | |
| 12-11 | 0 / 783 | -17.5 | -17.5 | 0.16 (1) | 10.00 | | | |
| 11-10 | 0 / 735 | -17.5 | -17.5 | 0.16 (1) | 10.00 | | | |
| 10-9 | 0 / 0 | -17.5 | -17.5 | 0.06 (4) | 10.00 | | | |

**DESIGN CRITERIA**

SPECIFIED LOADS:

| | | | | |
|---|---|---|---|---|
| TOP CH. | LL | = | 23.3 | PSF |
| | DL | = | 3.0 | PSF |
| BOT CH. | LL | = | 0.0 | PSF |
| | DL | = | 7.0 | PSF |
| TOTAL LOAD | | = | 33.3 | PSF |

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.55")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.55")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.05")

CSI: TC=0.22/1.00 (2-15:1) , BC=0.16/1.00 (11-12:1) , WB=0.37/1.00 (3-14:1) , SSI=0.13/1.00 (6-7:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (11) (INPUT = 0.90 )
JSI METAL= 0.27 (3) (INPUT = 1.00 )

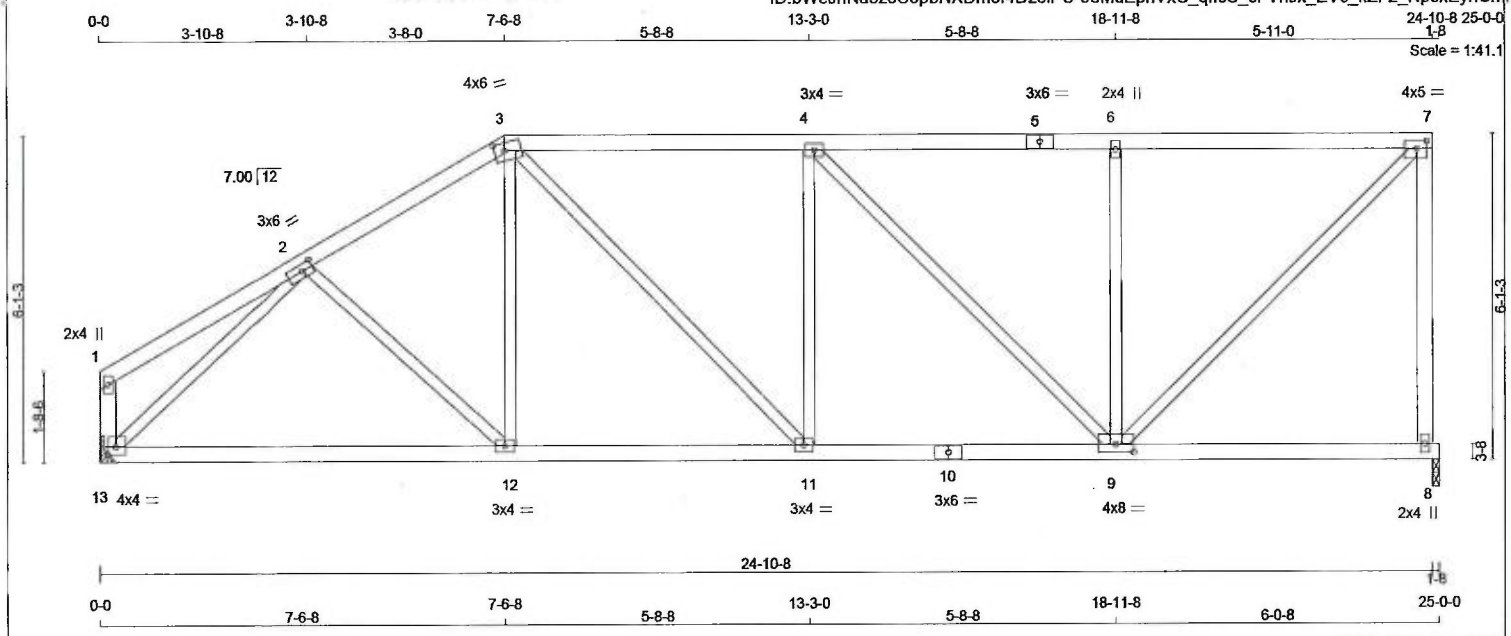
LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
PROVINCE OF ONTARIO
Aug 16, 2018

**READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS 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. |
|---|---|---|---|---|---|
| NE0818-105 | T14 | 1 | 1 | GREENPARK-MINNISALE HOMES-HEMLOCK 5C EL 2 TRUSS DESC. | **PAGE 28 OF 49** |

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Thu Aug 16 18:08:14 2018 Page 1
ID:bWeJhNa3z9S0pbNXDmof4Dz3iPU-9oMuEpnVxC_qffsS_cFVnJx_EVc_kZF2_NpcxEynCm




TOTAL WEIGHT = 107 lb [M]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 1 - 3 | 2x4 | DRY | No.2 | SPF |
| 3 - 5 | 2x4 | DRY | No.2 | SPF |
| 5 - 7 | 2x4 | DRY | No.2 | SPF |
| 8 - 7 | 2x4 | DRY | No.2 | SPF |
| 13 - 1 | 2x4 | DRY | No.2 | SPF |
| 13 - 10 | 2x4 | DRY | No.2 | SPF |
| 10 - 8 | 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 |
|---|---|---|---|---|---|---|
| 1 | TMV+p | MT20 | 2.0 | 4.0 | | |
| 2 | TMWW-t | MT20 | 3.0 | 6.0 | 1.50 | 2.50 |
| 3 | TTWW-m | MT20 | 4.0 | 6.0 | 1.75 | 2.25 |
| 4 | TMWW-t | MT20 | 3.0 | 4.0 | | |
| 5 | TS-t | MT20 | 3.0 | 6.0 | | |
| 6 | TMW+w | MT20 | 2.0 | 4.0 | | |
| 7 | TMVW-t | MT20 | 4.0 | 5.0 | 1.75 | 2.25 |
| 8 | BMV1+p | MT20 | 2.0 | 4.0 | | |
| 9 | BMWWW-t | MT20 | 4.0 | 8.0 | 1.75 | 4.00 |
| 10 | BS-t | MT20 | 3.0 | 6.0 | | |
| 11 | BMWW-t | MT20 | 3.0 | 4.0 | | |
| 12 | BMWW-t | MT20 | 3.0 | 4.0 | | |
| 13 | BMVW1-t | MT20 | 4.0 | 4.0 | 1.75 | 1.75 |


**READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS 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 | REQRD BRG |
|---|---|---|---|---|---|---|---|
| 8 | 1180 | 0 | 1180 | 0 | 0 | 1-8 | 1-8 |
| 13 | 1180 | 0 | 1180 | 0 | 0 | MECHANICAL | |

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 13 TO RESIST THE MAX FACTORED REACTIONS.

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| 8 | 828 | 579 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 249 / 0 | 0 / 0 |
| 13 | 828 | 579 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 249 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 8

**BRACING**
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.18 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) |
|---|---|---|---|---|---|---|---|---|
| 1-2 | 0 / 16 | -77.4 | -77.4 | 0.17 (1) | 10.00 | 2-12 | 0 / 61 | 0.02 (4) |
| 2-3 | -1273 / 0 | -77.4 | -77.4 | 0.19 (1) | 5.49 | 12-3 | 0 / 119 | 0.04 (4) |
| 3-4 | -1304 / 0 | -77.4 | -77.4 | 0.39 (1) | 5.18 | 3-11 | 0 / 310 | 0.07 (1) |
| 4-5 | -970 / 0 | -77.4 | -77.4 | 0.39 (1) | 5.78 | 11-4 | -139 / 44 | 0.08 (1) |
| 5-6 | -970 / 0 | -77.4 | -77.4 | 0.39 (1) | 5.78 | 4-9 | -476 / 0 | 0.66 (1) |
| 6-7 | -970 / 0 | -77.4 | -77.4 | 0.39 (1) | 5.78 | 9-6 | -495 / 0 | 0.29 (1) |
| 8-7 | -1138 / 0 | 0.0 | 0.0 | 0.82 (1) | 7.45 | 9-7 | 0 / 1359 | 0.31 (1) |
| 13-1 | -114 / 0 | 0.0 | 0.0 | 0.01 (1) | 7.81 | 13-2 | -1467 / 0 | 0.63 (1) |
| 13-12 | 0 / 1063 | -17.5 | -17.5 | 0.29 (1) | 10.00 | | | |
| 12-11 | 0 / 1086 | -17.5 | -17.5 | 0.30 (4) | 10.00 | | | |
| 11-10 | 0 / 1304 | -17.5 | -17.5 | 0.29 (1) | 10.00 | | | |
| 10-9 | 0 / 1304 | -17.5 | -17.5 | 0.29 (1) | 10.00 | | | |
| 9-8 | 0 / 0 | -17.5 | -17.5 | 0.15 (4) | 10.00 | | | |

**DESIGN CRITERIA**

SPECIFIED LOADS:

| | | | | |
|---|---|---|---|---|
| TOP CH. | LL | = | 23.3 | PSF |
| | DL | = | 3.0 | PSF |
| BOT CH. | LL | = | 0.0 | PSF |
| | DL | = | 7.0 | PSF |
| TOTAL LOAD | | = | 33.3 | PSF |

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

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.83")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.83")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.12")

CSI: TC=0.82/1.00 (7-8:1) , BC=0.30/1.00 (11-12:4) , WB=0.66/1.00 (4-9:1) , SSI=0.21/1.00 (6-7:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

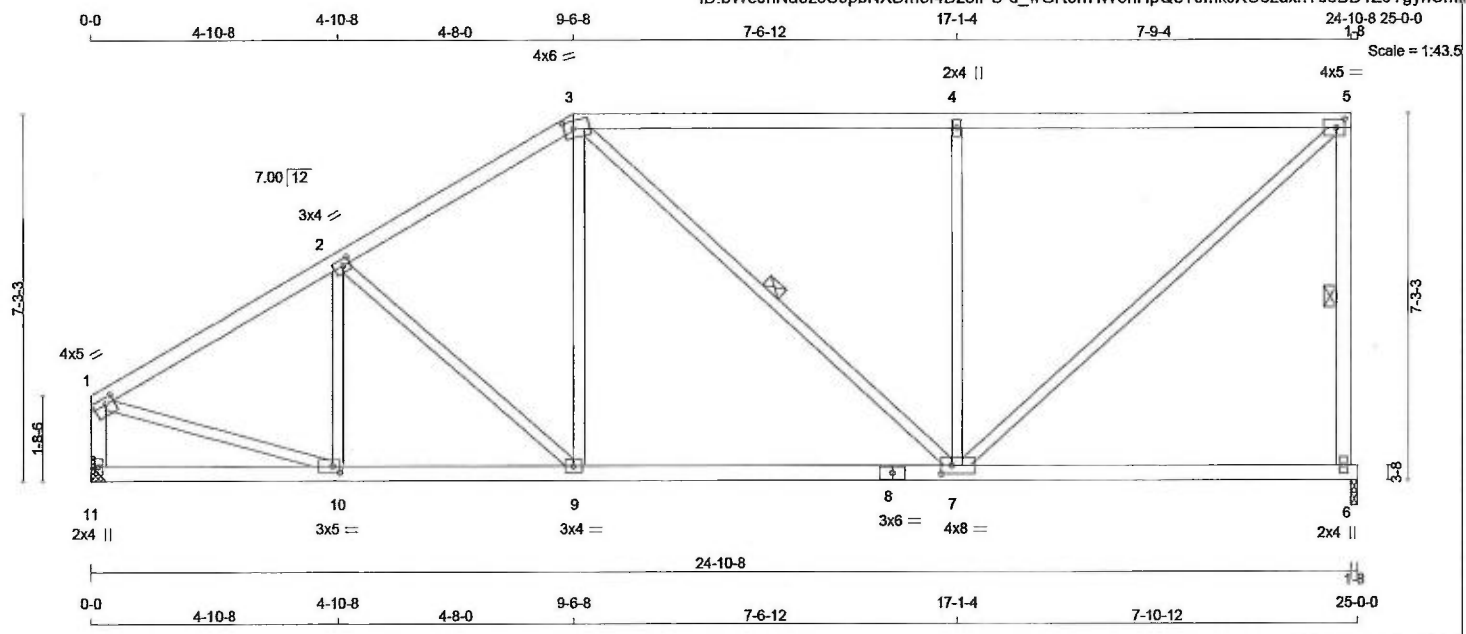
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (13) (INPUT = 0.90 )
JSI METAL= 0.40 (13) (INPUT = 1.00 )

KOTT

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | DRWG NO. |
|---|---|---|---|---|---|
| NE0818-105 | T15 | 1 | 1 | GREENPARK-MINNISALE HOMES-HEMLOCK 5C EL 2<br>TRUSS DESC. | **PAGE 29 OF 49** |

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Thu Aug 16 18:08:15 2018 Page 1
ID:bWeJhNa3z9S0pbNXDmof4Dz3iPU-d_wGR9n7iW6hHpQeYJmkJXU8zuxhT08BD1Z9TgynCmk




TOTAL WEIGHT = 107 lb [M]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 1 - 3 | 2x4 | DRY | No.2 | SPF |
| 3 - 5 | 2x4 | DRY | No.2 | SPF |
| 6 - 5 | 2x4 | DRY | No.2 | SPF |
| 11 - 1 | 2x4 | DRY | No.2 | SPF |
| 11 - 8 | 2x4 | DRY | No.2 | SPF |
| 8 - 6 | 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 |
|---|---|---|---|---|---|---|
| 1 | TMVW-t | MT20 | 4.0 | 5.0 | 1.50 | 2.00 |
| 2 | TMWW-t | MT20 | 3.0 | 4.0 | 1.50 | 1.75 |
| 3 | TTWW-m | MT20 | 4.0 | 6.0 | 1.75 | 2.25 |
| 4 | TMW+w | MT20 | 2.0 | 4.0 | | |
| 5 | TMVW-t | MT20 | 4.0 | 5.0 | 2.00 | 2.00 |
| 6 | BMV1+p | MT20 | 2.0 | 4.0 | | |
| 7 | BMWWW-t | MT20 | 4.0 | 8.0 | 2.00 | 2.50 |
| 8 | BS-t | MT20 | 3.0 | 6.0 | | |
| 9 | BMWW-t | MT20 | 3.0 | 4.0 | | |
| 10 | BMWW-t | MT20 | 3.0 | 5.0 | 1.50 | 1.75 |
| 11 | 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 | REQRD BRG |
|---|---|---|---|---|---|---|---|
| 6 | 1180 | 0 | 1180 | 0 | 0 | 1-8 | 1-8 |
| 11 | 1180 | 0 | 1180 | 0 | 0 | MECHANICAL | |

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 11 TO RESIST THE MAX FACTORED REACTIONS.

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| 6 | 828 | 579 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 249 / 0 | 0 / 0 |
| 11 | 828 | 579 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 249 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 6

**BRACING**
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.54 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 5-6, 3-7. DBS = 20-0-0 . CBF = 141 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. 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) |
|---|---|---|---|---|---|---|---|---|
| 1- 2 | -1308 / 0 | -77.4 | -77.4 | 0.33 (1) | 5.26 | 10- 2 | -242 / 3 | 0.07 (1) |
| 2- 3 | -1183 / 0 | -77.4 | -77.4 | 0.32 (1) | 5.46 | 2- 9 | -197 / 0 | 0.14 (1) |
| 3- 4 | -999 / 0 | -77.4 | -77.4 | 0.88 (1) | 4.54 | 9- 3 | 0 / 236 | 0.05 (1) |
| 4- 5 | -999 / 0 | -77.4 | -77.4 | 0.88 (1) | 4.54 | 3- 7 | -14 / 0 | 0.01 (4) |
| 6- 5 | -1125 / 0 | 0.0 | 0.0 | 0.27 (1) | 5.98 | 7- 4 | -737 / 0 | 0.69 (1) |
| 11- 1 | -1142 / 0 | 0.0 | 0.0 | 0.12 (1) | 7.44 | 7- 5 | 0 / 1342 | 0.30 (1) |
| | | | | | | 1-10 | 0 / 1194 | 0.27 (1) |
| 11-10 | 0 / 0 | -17.5 | -17.5 | 0.08 (4) | 10.00 | | | |
| 10- 9 | 0 / 1149 | -17.5 | -17.5 | 0.26 (1) | 10.00 | | | |
| 9- 8 | 0 / 1005 | -17.5 | -17.5 | 0.34 (4) | 10.00 | | | |
| 8- 7 | 0 / 1005 | -17.5 | -17.5 | 0.34 (4) | 10.00 | | | |
| 7- 6 | 0 / 0 | -17.5 | -17.5 | 0.26 (4) | 10.00 | | | |

**DESIGN CRITERIA**

SPECIFIED LOADS:

| | | | | |
|---|---|---|---|---|
| TOP CH. | LL | = | 23.3 | PSF |
| | DL | = | 3.0 | PSF |
| BOT CH. | LL | = | 0.0 | PSF |
| | DL | = | 7.0 | PSF |
| TOTAL LOAD | | = | 33.3 | PSF |

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

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.83")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.83")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.12")

CSI: TC=0.88/1.00 (4-5:1) , BC=0.34/1.00 (7-9:4) , WB=0.69/1.00 (4-7:1) , SSI=0.29/1.00 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (10) (INPUT = 0.90 )
JSI METAL= 0.42 (1) (INPUT = 1.00 )

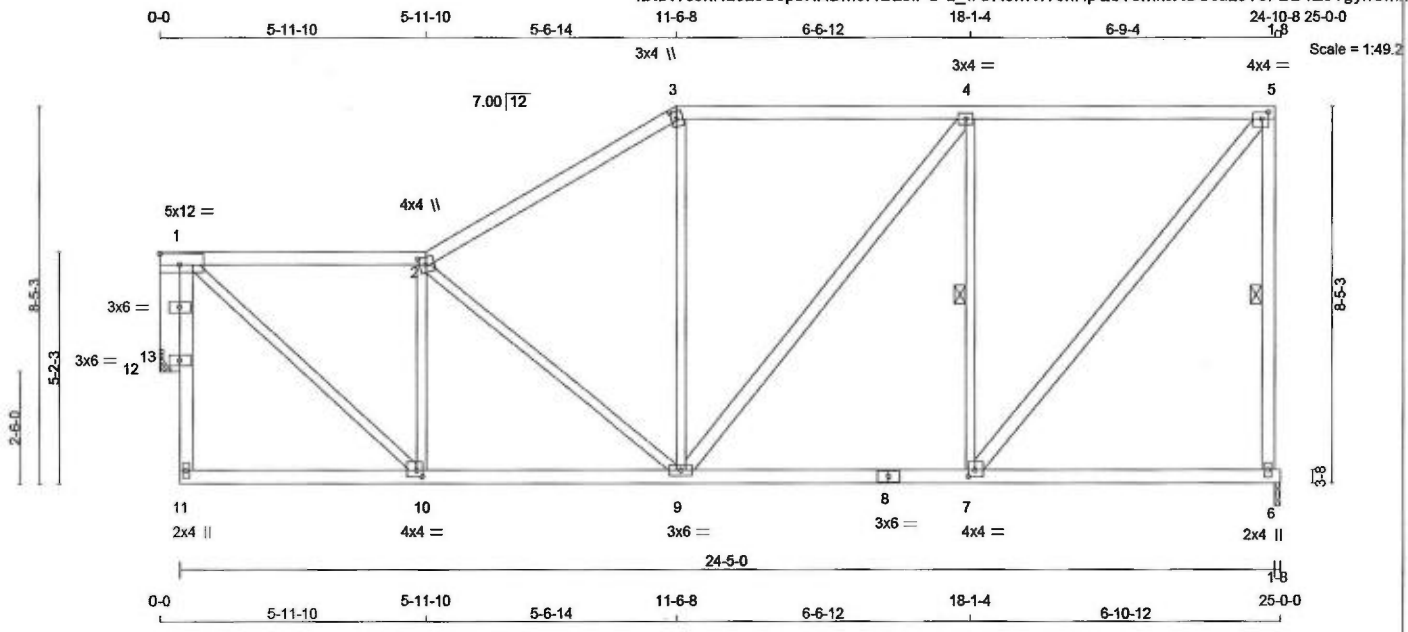
LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
PROVINCE OF ONTARIO
Aug 16, 2018

**READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS 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. |
|---|---|---|---|---|---|
| NE0818-105 | T16 | 1 | 1 | GREENPARK-MINNISALE HOMES-HEMLOCK 5C EL 2 TRUSS DESC. | **PAGE 30 OF 49** |

Version 8.210 S Mar 12 2018 MiTek Industries, inc. Thu Aug 16 18:08:15 2018 Page 1
ID:bWeJhNa3z9S0pbNXDmof4Dz3iPU-d_wGR9n7iW6hHpQeYJmkJXUCsuz3T5FBD1Z9TgynCmk




TOTAL WEIGHT = 127 lb [M]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 11 - 1 | 2x4 | DRY | No.2 | SPF |
| 1 - 2 | 2x4 | DRY | No.2 | SPF |
| 2 - 3 | 2x4 | DRY | No.2 | SPF |
| 3 - 5 | 2x4 | DRY | No.2 | SPF |
| 6 - 5 | 2x4 | DRY | No.2 | SPF |
| 11 - 8 | 2x4 | DRY | No.2 | SPF |
| 8 - 6 | 2x4 | DRY | No.2 | SPF |
| BEARING BLOCKS | | | | |
| BL1 | 2x6 | DRY | No.2 | SPF |
| ALL WEBS EXCEPT | 2x3 | DRY | No.2 | SPF |
| 9 - 4 | 2x4 | DRY | No.2 | SPF |
| 7 - 5 | 2x4 | DRY | No.2 | SPF |

DRY: SEASONED LUMBER.

BEARING NOTE: GAP BETWEEN INSIDE OF TOP CHORD BEARING AND FIRST DIAGONAL OR VERTICAL WEB SHALL NOT EXCEED 0.5 INCHES.

**PLATES (table is in inches)**

| JT | TYPE | PLATES | W | LEN | Y | X |
|---|---|---|---|---|---|---|
| 1 | TMVWK1-t | MT20 | 5.0 | 12.0 | 3.00 | Edge |
| 2 | TTWW+m | MT20 | 4.0 | 4.0 | 2.00 | 1.75 |
| 3 | TTW+m | MT20 | 3.0 | 4.0 | 2.00 | 1.25 |
| 4 | TMWW-t | MT20 | 3.0 | 4.0 | | |
| 5 | TMVW-t | MT20 | 4.0 | 4.0 | 1.75 | 1.75 |
| 6 | BMV1+p | MT20 | 2.0 | 4.0 | | |
| 7 | BMWW-t | MT20 | 4.0 | 4.0 | 1.75 | 1.75 |
| 8 | BS-t | MT20 | 3.0 | 6.0 | | |
| 9 | BMWWW-t | MT20 | 3.0 | 6.0 | | |
| 10 | BMWW-t | MT20 | 4.0 | 4.0 | 1.75 | 1.50 |
| 11 | BMV+p | MT20 | 2.0 | 4.0 | | |
| 12 | KP-p | MT20 | 3.0 | 6.0 | | |
| 12 | KP-p | MT20 | 3.0 | 6.0 | | |

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


**READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS 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 |
|---|---|---|---|---|---|---|---|
| 13(1) | 1143 | 0 | 1143 | 0 | 0 | MECHANICAL | (** SEE "BEARING NOTE" **) |
| 6 | 1173 | 0 | 1173 | 0 | 0 | 1-8 | 1-8 |

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 13(1) TO RESIST THE MAX FACTORED REACTIONS.

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| 13(1) | 802 | 561 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 241 / 0 | 0 / 0 |
| 6 | 823 | 576 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 247 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 6

**BRACING**
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.44 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 5-6, 4-7. DBS = 20-0-0 . CBF = 141 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. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) FROM | TO | LC | MAX CSI (LC) | MAX. UNBRAC LENGTH |
|---|---|---|---|---|---|---|
| 11-12 | 0 / 42 | 0.0 | 0.0 | 0.24 (1) | | 10.00 |
| 12- 1 | 0 / 42 | 0.0 | 0.0 | 0.24 (1) | | 10.00 |
| 1- 2 | -1061 / 0 | -77.4 | -77.4 | 0.44 (1) | | 5.48 |
| 2- 3 | -1029 / 0 | -77.4 | -77.4 | 0.46 (1) | | 5.53 |
| 3- 4 | -890 / 0 | -77.4 | -77.4 | 0.63 (1) | | 5.44 |
| 4- 5 | -770 / 0 | -77.4 | -77.4 | 0.63 (1) | | 5.76 |
| 6- 5 | -1125 / 0 | 0.0 | 0.0 | 0.36 (1) | | 5.98 |
| 11-10 | 0 / 73 | -17.5 | -17.5 | 0.13 (4) | | 10.00 |
| 10- 9 | 0 / 1078 | -17.5 | -17.5 | 0.24 (1) | | 10.00 |
| 9- 8 | 0 / 770 | -17.5 | -17.5 | 0.25 (4) | | 10.00 |
| 8- 7 | 0 / 770 | -17.5 | -17.5 | 0.25 (4) | | 10.00 |
| 7- 6 | 0 / 0 | -17.5 | -17.5 | 0.19 (4) | | 10.00 |

| WEBS MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
|---|---|---|
| 1-10 | 0 / 1332 | 0.30 (1) |
| 10- 2 | -787 / 0 | 0.31 (1) |
| 2- 9 | -249 / 0 | 0.28 (1) |
| 9- 3 | 0 / 112 | 0.04 (4) |
| 9- 4 | 0 / 194 | 0.03 (1) |
| 7- 4 | -793 / 0 | 0.36 (1) |
| 7- 5 | 0 / 1204 | 0.19 (1) |
| 1-13 | -1152 / 0 | 0.12 (1) |
| 12-13 | 0 / 141 | 0.00 (1) |

**DESIGN CRITERIA**

SPECIFIED LOADS:

| | | | | |
|---|---|---|---|---|
| TOP CH. | LL | = | 23.3 | PSF |
| | DL | = | 3.0 | PSF |
| BOT CH. | LL | = | 0.0 | PSF |
| | DL | = | 7.0 | PSF |
| TOTAL LOAD | | = | 33.3 | PSF |

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

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.81")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.81")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.09")

CSI: TC=0.63/1.00 (3-4:1) , BC=0.25/1.00 (7-9:4) , WB=0.36/1.00 (4-7:1) , SSI=0.25/1.00 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

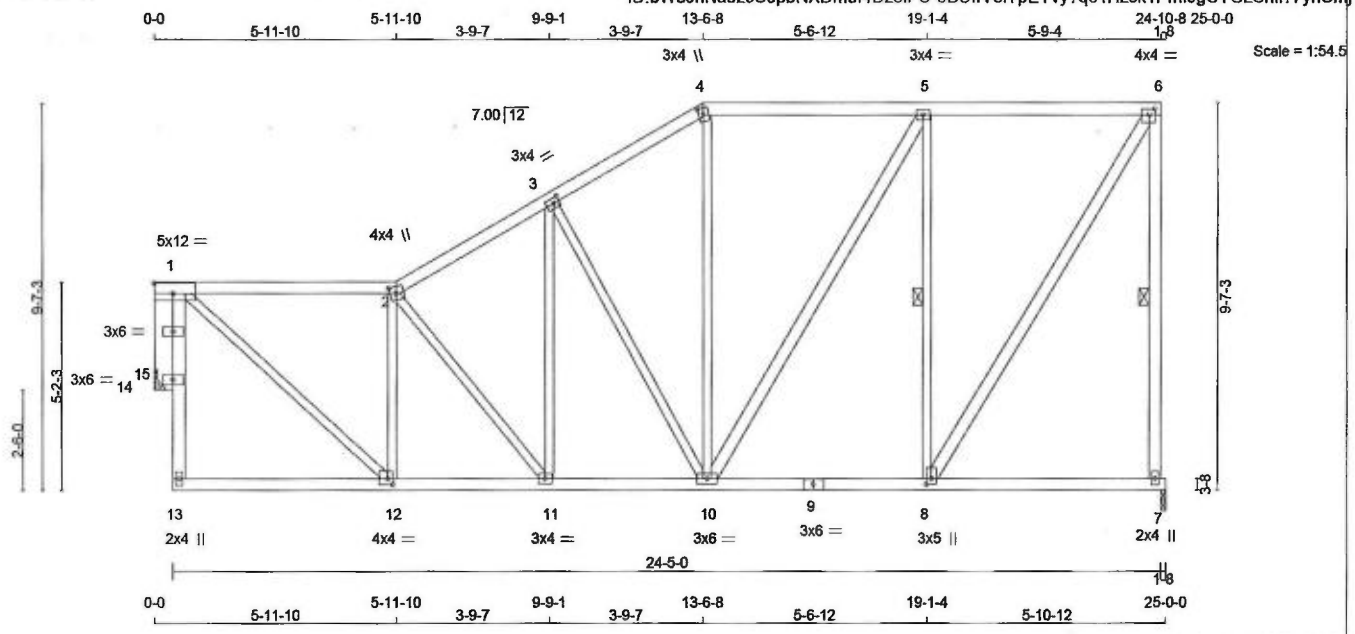
JSI GRIP= 0.90 (7) (INPUT = 0.90 )
JSI METAL= 0.38 (10) (INPUT = 1.00 )

CONTINUED ON PAGE 2

KOTT

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | GREENPARK-MINNISALE HOMES-HEMLOCK 5C EL 2 | DRWG NO. |
|---|---|---|---|---|---|---|
| NE0818-105 | T17 | 1 | 1 | TRUSS DESC. | | **PAGE 31 OF 49** |

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Thu Aug 16 18:08:16 2018 Page 1
ID:bWeJhNa3z9S0pbNXDmof4Dz3iPU-5BUffVolTpEYvy?q61Hzsk1PmlJgCTGLShli?7ynCm




TOTAL WEIGHT = 142 lb [M]

**LUMBER**

N. L. G. A. RULES

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 13 - 1 | 2x4 | DRY | No.2 | SPF |
| 1 - 2 | 2x4 | DRY | No.2 | SPF |
| 2 - 4 | 2x4 | DRY | No.2 | SPF |
| 4 - 6 | 2x4 | DRY | No.2 | SPF |
| 7 - 6 | 2x4 | DRY | No.2 | SPF |
| 13 - 9 | 2x4 | DRY | No.2 | SPF |
| 9 - 7 | 2x4 | DRY | No.2 | SPF |
| BEARING BLOCKS | | | | |
| BL1 | 2x6 | DRY | No.2 | SPF |
| ALL WEBS EXCEPT | 2x3 | DRY | No.2 | SPF |
| 10 - 5 | 2x4 | DRY | No.2 | SPF |
| 8 - 6 | 2x4 | DRY | No.2 | SPF |

DRY: SEASONED LUMBER.

BEARING NOTE: GAP BETWEEN INSIDE OF TOP CHORD BEARING AND FIRST DIAGONAL OR VERTICAL WEB SHALL NOT EXCEED 0.5 INCHES.

**PLATES (table is in inches)**

| JT | TYPE | PLATES | W | LEN | Y | X |
|---|---|---|---|---|---|---|
| 1 | TMVWK1-t | MT20 | 5.0 | 12.0 | 3.00 | Edge |
| 2 | TTWW+m | MT20 | 4.0 | 4.0 | 2.00 | 1.75 |
| 3 | TMWW-t | MT20 | 3.0 | 4.0 | 1.50 | 1.75 |
| 4 | TTW+m | MT20 | 3.0 | 4.0 | 2.00 | 1.25 |
| 5 | TMWW-t | MT20 | 3.0 | 4.0 | | |
| 6 | TMVW-t | MT20 | 4.0 | 4.0 | 1.75 | 1.75 |
| 7 | BMV1+p | MT20 | 2.0 | 4.0 | | |
| 8 | BMWW+t | MT20 | 3.0 | 5.0 | 1.75 | 1.50 |
| 9 | BS-t | MT20 | 3.0 | 6.0 | | |
| 10 | BMWWW-t | MT20 | 3.0 | 6.0 | | |
| 11 | BMWW-t | MT20 | 3.0 | 4.0 | | |
| 12 | BMWW-t | MT20 | 4.0 | 4.0 | 1.75 | 1.50 |
| 13 | BMV+p | MT20 | 2.0 | 4.0 | | |
| 14 | KP-p | MT20 | 3.0 | 6.0 | | |
| 14 | KP-p | MT20 | 3.0 | 6.0 | | |

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


**READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS 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 | |
|---|---|---|---|---|---|---|---|---|
| 15(1) | 1143 | 0 | 1143 | 0 | 0 | MECHANICAL | | |
| 7 | 1173 | 0 | 1173 | 0 | 0 | 1-8 | 1-8 | (** SEE "BEARING NOTE" **) |

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 15(1) TO RESIST THE MAX FACTORED REACTIONS.

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| 15(1) | 802 | 561 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 241 / 0 | 0 / 0 |
| 7 | 823 | 576 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 247 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 7

**BRACING**

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.49 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 6-7, 5-8. DBS = 20-0-0 . CBF = 142 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. 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) |
|---|---|---|---|---|---|---|---|---|
| 13-14 | 0 / 44 | 0.0 | 0.0 | 0.24 (1) | 10.00 | 1-12 | 0 / 1331 | 0.30 (1) |
| 14- 1 | 0 / 44 | 0.0 | 0.0 | 0.24 (1) | 10.00 | 12- 2 | -795 / 0 | 0.32 (1) |
| 1- 2 | -1060 / 0 | -77.4 | -77.4 | 0.44 (1) | 5.49 | 2-11 | -137 / 0 | 0.09 (1) |
| 2- 3 | -1130 / 0 | -77.4 | -77.4 | 0.20 (1) | 5.73 | 11- 3 | 0 / 161 | 0.04 (1) |
| 3- 4 | -913 / 0 | -77.4 | -77.4 | 0.20 (1) | 6.21 | 3-10 | -457 / 0 | 0.63 (1) |
| 4- 5 | -774 / 0 | -77.4 | -77.4 | 0.44 (1) | 6.16 | 10- 4 | 0 / 179 | 0.04 (1) |
| 5- 6 | -596 / 0 | -77.4 | -77.4 | 0.43 (1) | 6.25 | 10- 5 | 0 / 353 | 0.06 (1) |
| 7- 6 | -1132 / 0 | 0.0 | 0.0 | 0.50 (1) | 5.97 | 8- 5 | -848 / 0 | 0.52 (1) |
| | | | | | | 8- 6 | 0 / 1131 | 0.18 (1) |
| 13-12 | 0 / 73 | -17.5 | -17.5 | 0.11 (4) | 10.00 | 1-15 | -1152 / 0 | 0.12 (1) |
| 12-11 | 0 / 1077 | -17.5 | -17.5 | 0.23 (1) | 10.00 | 14-15 | 0 / 141 | 0.00 (1) |
| 11-10 | 0 / 993 | -17.5 | -17.5 | 0.20 (1) | 10.00 | | | |
| 10- 9 | 0 / 596 | -17.5 | -17.5 | 0.18 (4) | 10.00 | | | |
| 9- 8 | 0 / 596 | -17.5 | -17.5 | 0.18 (4) | 10.00 | | | |
| 8- 7 | 0 / 0 | -17.5 | -17.5 | 0.14 (4) | 10.00 | | | |

**DESIGN CRITERIA**

SPECIFIED LOADS:

| | | | | |
|---|---|---|---|---|
| TOP CH. | LL | = | 23.3 | PSF |
| | DL | = | 3.0 | PSF |
| BOT CH. | LL | = | 0.0 | PSF |
| | DL | = | 7.0 | PSF |
| TOTAL LOAD | | = | 33.3 | PSF |

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

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.81")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.81")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.09")

CSI: TC=0.50/1.00 (6-7:1) , BC=0.23/1.00 (11-12:1) , WB=0.63/1.00 (3-10:1) , SSI=0.21/1.00 (5-6:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

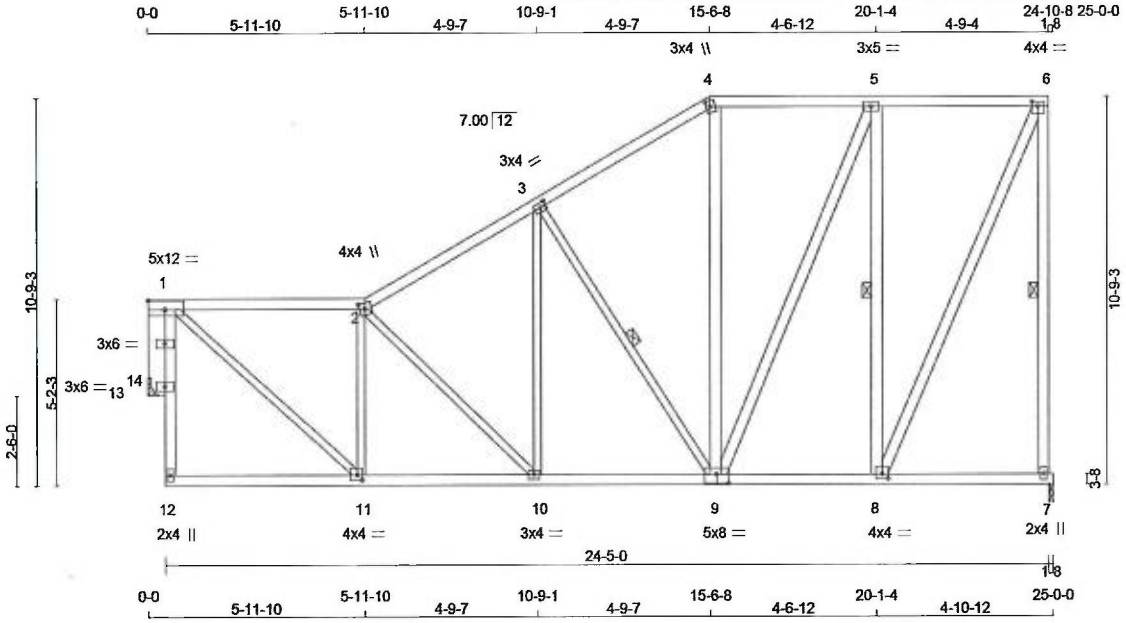
JSI GRIP= 0.88 (1) (INPUT = 0.90 )
JSI METAL= 0.38 (12) (INPUT = 1.00 )

CONTINUED ON PAGE 2

KOTT

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | GREENPARK-MINNISALE HOMES-HEMLOCK 5C EL 2 | DRWG NO. |
|---|---|---|---|---|---|---|
| NE0818-105 | T18 | 3 | 1 | TRUSS DESC. | | **PAGE 32 OF 49** |

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Thu Aug 16 18:08:17 2018 Page 1
ID:bWeJhNa3z9S0pbNXDmof4Dz3iPU-ZN21srpOE7MPW6a0fkpCOyZXJieqxxdUgL2GXZynCm




TOTAL WEIGHT = 3 X 156 = 467 lb [M][F]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 12 - 1 | 2x4 | DRY | No.2 | SPF |
| 1 - 2 | 2x4 | DRY | No.2 | SPF |
| 2 - 4 | 2x4 | DRY | No.2 | SPF |
| 4 - 6 | 2x4 | DRY | No.2 | SPF |
| 7 - 6 | 2x4 | DRY | No.2 | SPF |
| 12 - 9 | 2x4 | DRY | No.2 | SPF |
| 9 - 7 | 2x4 | DRY | No.2 | SPF |
| BEARING BLOCKS | | | | |
| BL1 | 2x6 | DRY | No.2 | SPF |
| ALL WEBS EXCEPT | 2x3 | DRY | No.2 | SPF |
| 9 - 4 | 2x4 | DRY | No.2 | SPF |
| 9 - 5 | 2x4 | DRY | No.2 | SPF |
| 8 - 5 | 2x4 | DRY | No.2 | SPF |
| 8 - 6 | 2x4 | DRY | No.2 | SPF |

DRY: SEASONED LUMBER.

BEARING NOTE: GAP BETWEEN INSIDE OF TOP CHORD BEARING AND FIRST DIAGONAL OR VERTICAL WEB SHALL NOT EXCEED 0.5 INCHES.

**PLATES (table is in inches)**

| JT | TYPE | PLATES | W | LEN | Y | X |
|---|---|---|---|---|---|---|
| 1 | TMVWK1-t | MT20 | 5.0 | 12.0 | 3.00 | Edge |
| 2 | TTWW+m | MT20 | 4.0 | 4.0 | 2.00 | 1.75 |
| 3 | TMWW-t | MT20 | 3.0 | 4.0 | 1.50 | 1.75 |
| 4 | TTW+m | MT20 | 3.0 | 4.0 | 2.00 | 1.25 |
| 5 | TMWW-t | MT20 | 3.0 | 5.0 | | |
| 6 | TMVW-t | MT20 | 4.0 | 4.0 | 1.50 | 2.00 |
| 7 | BMV1+p | MT20 | 2.0 | 4.0 | | |
| 8 | BMWW-t | MT20 | 4.0 | 4.0 | 1.50 | 2.00 |
| 9 | BSWWW-t | MT20 | 5.0 | 8.0 | 3.00 | 4.00 |
| 10 | BMWW-t | MT20 | 3.0 | 4.0 | | |
| 11 | BMWW-t | MT20 | 4.0 | 4.0 | 1.75 | 1.50 |
| 12 | BMV+p | MT20 | 2.0 | 4.0 | | |
| 13 | KP-p | MT20 | 3.0 | 6.0 | | |
| 13 | KP-p | MT20 | 3.0 | 6.0 | | |


**READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS 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 |
|---|---|---|---|---|---|---|---|
| 14(1) | 1157 | 0 | 1157 | 0 | 0 | MECHANICAL | |
| | | | | | | | (** SEE "BEARING NOTE" **) |
| 7 | 1230 | 0 | 1230 | 0 | 0 | 1-8 | 1-8 |

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 14(1) TO RESIST THE MAX FACTORED REACTIONS.

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| 14(1) | 813 | 561 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 252 / 0 | 0 / 0 |
| 7 | 868 | 576 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 293 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 7

**BRACING**
FOR SECTION 4-6, MAX. PURLIN SPACING = 2.00 FT.
FOR OTHER SECTIONS, TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.69 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 6-7, 3-9, 5-8. DBS = 20-0-0 . CBF = 149 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. 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) |
|---|---|---|---|---|---|---|---|---|---|
| 12-13 | 0 / 43 | 0.0 | 0.0 | 0.24 (1) | 10.00 | 1-11 | 0 / 1351 | 0.30 (1) | |
| 13-1 | 0 / 43 | 0.0 | 0.0 | 0.24 (1) | 10.00 | 11-2 | -805 / 0 | 0.32 (1) | |
| 1-2 | -1076 / 0 | -77.4 | -77.4 | 0.32 (1) | 5.69 | 2-10 | -165 / 0 | 0.14 (1) | |
| 2-3 | -1107 / 0 | -77.4 | -77.4 | 0.25 (1) | 5.74 | 10-3 | 0 / 201 | 0.05 (4) | |
| 3-4 | -793 / 0 | -77.4 | -77.4 | 0.24 (1) | 6.25 | 3-9 | -575 / 0 | 0.33 (1) | |
| 4-5 | -666 / 0 | -84.9 | -84.9 | 0.24 (1) | 2.00 | 9-4 | 0 / 103 | 0.02 (4) | |
| 5-6 | -473 / 0 | -84.9 | -84.9 | 0.23 (1) | 2.00 | 9-5 | 0 / 500 | 0.08 (1) | |
| 7-6 | -1195 / 0 | 0.0 | 0.0 | 0.70 (1) | 5.85 | 8-5 | -950 / 0 | 0.56 (1) | |
| | | | | | | 8-6 | 0 / 1142 | 0.18 (1) | |
| 12-11 | 0 / 74 | -17.5 | -17.5 | 0.12 (4) | 10.00 | 1-14 | -1165 / 0 | 0.12 (1) | |
| 11-10 | 0 / 1093 | -17.5 | -17.5 | 0.23 (1) | 10.00 | 13-14 | 0 / 143 | 0.00 (1) | |
| 10-9 | 0 / 977 | -17.5 | -17.5 | 0.19 (1) | 10.00 | | | | |
| 9-8 | 0 / 473 | -17.5 | -17.5 | 0.13 (4) | 10.00 | | | | |
| 8-7 | 0 / 0 | -17.5 | -17.5 | 0.09 (4) | 10.00 | | | | |

**DESIGN CRITERIA**

SPECIFIED LOADS:

| | | | | |
|---|---|---|---|---|
| TOP CH. | LL | = | 23.3 | PSF |
| | DL | = | 3.0 | PSF |
| BOT CH. | LL | = | 0.0 | PSF |
| | DL | = | 7.0 | PSF |
| TOTAL LOAD | | = | 33.3 | PSF |

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

LOADING IN HIGHEST FLAT SECTION BASED ON PIGGYBACK TRUSS WITH SLOPES OF 7.00/12 AND -7.00/12 AND RESPECTIVE WALL HEIGHTS OF 0-0 AND 0-0 AND AN ADDITIONAL DEAD LOAD OF 3.0 P.S.F.

LOADING IN OTHER FLAT SECTIONS BASED ON A SLOPE OF 7.00/12

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.81")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.81")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.10")

CSI: TC=0.70/1.00 (6-7:1) , BC=0.23/1.00 (10-11:1) , WB=0.56/1.00 (5-8:1) , SSI=0.19/1.00 (5-6:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 Inches

PLATE ROTATION TOL. = 5.0 Deg.

CONTINUED ON PAGE 2

KOTT

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

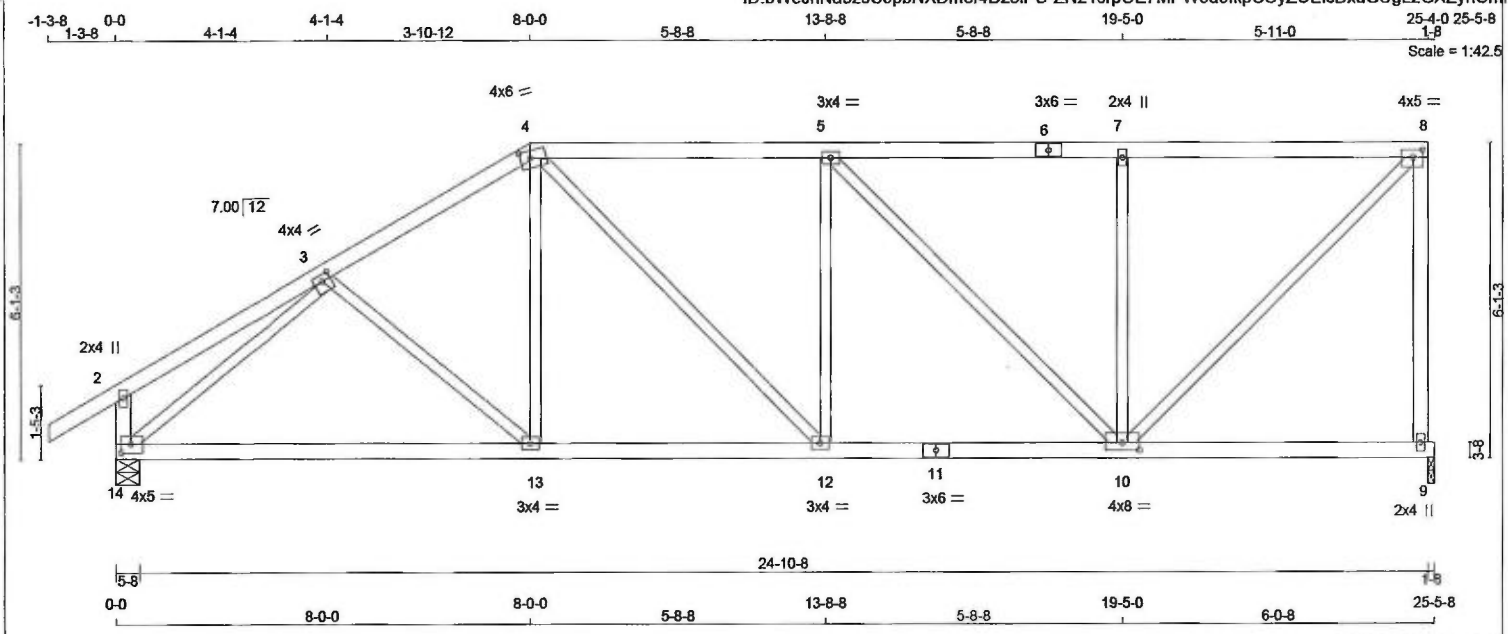
JSI GRIP= 0.90 (1) (INPUT = 0.90 )
JSI METAL= 0.38 (11) (INPUT = 1.00 )

**READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS 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. |
|---|---|---|---|---|---|
| NE0818-105 | T20 | 1 | 1 | GREENPARK-MINNISALE HOMES-HEMLOCK 5C EL 2 TRUSS DESC. | **PAGE 34 OF 49** |

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Thu Aug 16 18:08:17 2018 Page 1
ID:bWeJhNa3z9S0pbNXDmof4Dz3iPU-ZN21srpOE7MPW6a0fkpCOyZUEicDxuGUgL2GXZynCmi




TOTAL WEIGHT = 109 lb [M]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 1 - 4 | 2x4 | DRY | No.2 | SPF |
| 4 - 6 | 2x4 | DRY | No.2 | SPF |
| 6 - 8 | 2x4 | DRY | No.2 | SPF |
| 9 - 8 | 2x4 | DRY | No.2 | SPF |
| 14 - 2 | 2x4 | DRY | No.2 | SPF |
| 14 - 11 | 2x4 | DRY | No.2 | SPF |
| 11 - 9 | 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 |
|---|---|---|---|---|---|---|
| 2 | TMV+p | MT20 | 2.0 | 4.0 | | |
| 3 | TMWW-t | MT20 | 4.0 | 4.0 | 1.50 | 2.00 |
| 4 | TTWW-m | MT20 | 4.0 | 6.0 | 1.75 | 2.25 |
| 5 | TMWW-t | MT20 | 3.0 | 4.0 | | |
| 6 | TS-t | MT20 | 3.0 | 6.0 | | |
| 7 | TMW+w | MT20 | 2.0 | 4.0 | | |
| 8 | TMVW-t | MT20 | 4.0 | 5.0 | 1.75 | 2.25 |
| 9 | BMV1+p | MT20 | 2.0 | 4.0 | | |
| 10 | BMWWW-t | MT20 | 4.0 | 8.0 | 1.75 | 4.00 |
| 11 | BS-t | MT20 | 3.0 | 6.0 | | |
| 12 | BMWW-t | MT20 | 3.0 | 4.0 | | |
| 13 | BMWW-t | MT20 | 3.0 | 4.0 | | |
| 14 | BMVW1-t | MT20 | 4.0 | 5.0 | 2.00 | 2.25 |


**READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS 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 |
|---|---|---|---|---|---|---|---|
| 9 | 1202 | 0 | 1202 | 0 | 0 | 1-8 | 1-8 |
| 14 | 1307 | 0 | 1307 | 0 | 0 | 5-8 | 5-8 |

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| 9 | 843 | 590 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 253 / 0 | 0 / 0 |
| 14 | 915 | 654 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 262 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 9, 14

**BRACING**
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.11 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

**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) |
|---|---|---|---|---|---|---|---|---|---|
| 1-2 | 0 / 27 | -77.4 | -77.4 | 0.10 (1) | 10.00 | | 3-13 | -45 / 45 | 0.02 (1) |
| 2-3 | 0 / 17 | -77.4 | -77.4 | 0.19 (1) | 10.00 | | 13-4 | 0 / 175 | 0.05 (4) |
| 3-4 | -1350 / 0 | -77.4 | -77.4 | 0.22 (1) | 5.34 | | 4-12 | 0 / 277 | 0.06 (1) |
| 4-5 | -1347 / 0 | -77.4 | -77.4 | 0.39 (1) | 5.11 | | 12-5 | -118 / 50 | 0.07 (1) |
| 5-6 | -992 / 0 | -77.4 | -77.4 | 0.39 (1) | 5.73 | | 5-10 | -506 / 0 | 0.70 (1) |
| 6-7 | -992 / 0 | -77.4 | -77.4 | 0.39 (1) | 5.73 | | 10-7 | -495 / 0 | 0.29 (1) |
| 7-8 | -992 / 0 | -77.4 | -77.4 | 0.39 (1) | 5.73 | | 10-8 | 0 / 1391 | 0.31 (1) |
| 9-8 | -1160 / 0 | 0.0 | 0.0 | 0.83 (1) | 7.40 | | 14-3 | -1565 / 0 | 0.71 (1) |
| 14-2 | -227 / 0 | 0.0 | 0.0 | 0.02 (1) | 7.81 | | | | |
| 14-13 | 0 / 1185 | -17.5 | -17.5 | 0.33 (1) | 10.00 | | | | |
| 13-12 | 0 / 1153 | -17.5 | -17.5 | 0.33 (4) | 10.00 | | | | |
| 12-11 | 0 / 1347 | -17.5 | -17.5 | 0.30 (1) | 10.00 | | | | |
| 11-10 | 0 / 1347 | -17.5 | -17.5 | 0.30 (1) | 10.00 | | | | |
| 10-9 | 0 / 0 | -17.5 | -17.5 | 0.15 (4) | 10.00 | | | | |

**DESIGN CRITERIA**

SPECIFIED LOADS:

| | | | | |
|---|---|---|---|---|
| TOP CH. | LL | = | 23.3 | PSF |
| | DL | = | 3.0 | PSF |
| BOT CH. | LL | = | 0.0 | PSF |
| | DL | = | 7.0 | PSF |
| TOTAL LOAD | | = | 33.3 | PSF |

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

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.84")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.84")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.15")

CSI: TC=0.83/1.00 (8-9:1) , BC=0.33/1.00 (12-13:4) , WB=0.71/1.00 (3-14:1) , SSI=0.21/1.00 (7-8:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

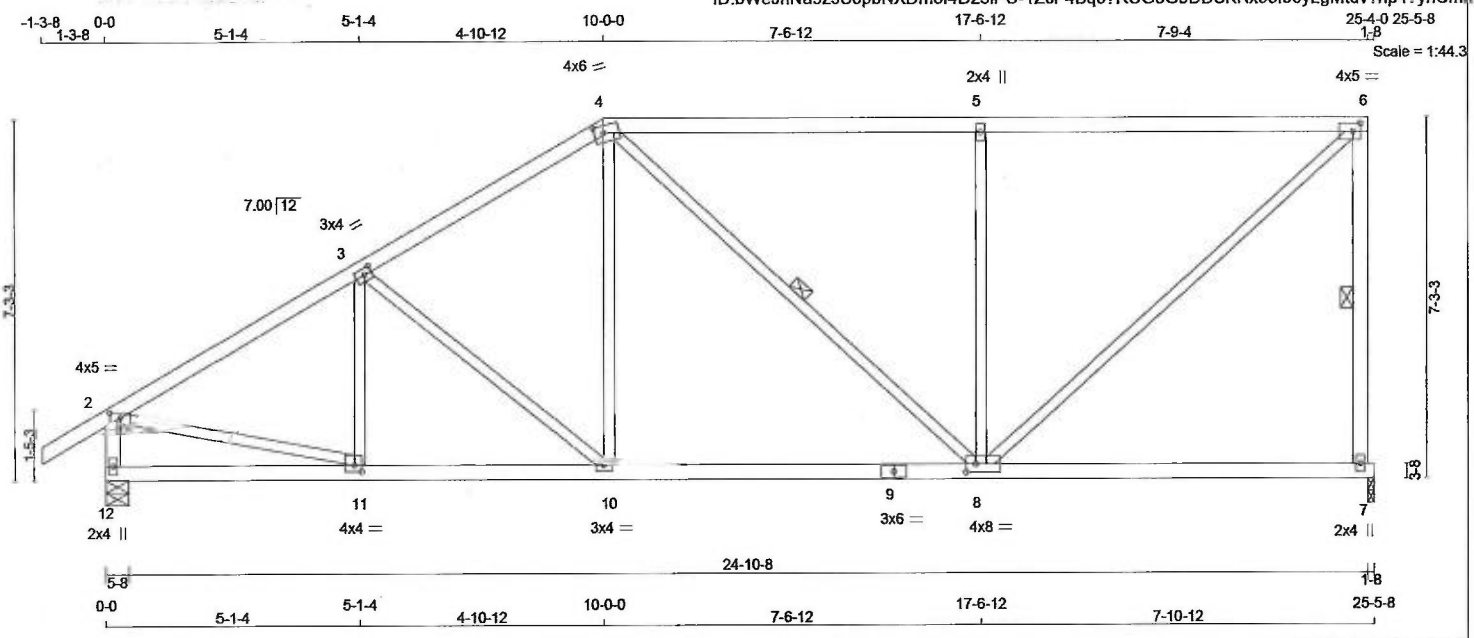
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (14) (INPUT = 0.90 )
JSI METAL= 0.57 (3) (INPUT = 1.00 )

KOTT

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | DRWG NO. |
|---|---|---|---|---|---|
| NE0818-105 | T21 | 1 | 1 | GREENPARK-MINNISALE HOMES-HEMLOCK 5C EL 2 | PAGE 35 OF 49 |
| | | | | TRUSS DESC. | |

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Thu Aug 16 18:08:18 2018 Page 1
ID:bWeJhNa3z9S0pbNXDmof4Dz3iPU-1ZcP4Bq0?RUG8G9DDSKRx96f96yLgMtdv?np4?ynCmh




TOTAL WEIGHT = 109 lb [M]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 1 - 4 | 2x4 | DRY | No.2 | SPF |
| 4 - 6 | 2x4 | DRY | No.2 | SPF |
| 7 - 6 | 2x4 | DRY | No.2 | SPF |
| 12 - 2 | 2x4 | DRY | No.2 | SPF |
| 12 - 9 | 2x4 | DRY | No.2 | SPF |
| 9 - 7 | 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 |
|---|---|---|---|---|---|---|
| 2 | TMVW-p | MT20 | 4.0 | 5.0 | 1.25 | 2.50 |
| 3 | TMWW-t | MT20 | 3.0 | 4.0 | 1.50 | 1.75 |
| 4 | TTWW-m | MT20 | 4.0 | 6.0 | 1.75 | 2.25 |
| 5 | TMW+w | MT20 | 2.0 | 4.0 | | |
| 6 | TMVW-t | MT20 | 4.0 | 5.0 | 2.00 | 1.75 |
| 7 | BMV1+p | MT20 | 2.0 | 4.0 | | |
| 8 | BMWWW-t | MT20 | 4.0 | 8.0 | 2.00 | 2.25 |
| 9 | BS-t | MT20 | 3.0 | 6.0 | | |
| 10 | BMWW-t | MT20 | 3.0 | 4.0 | | |
| 11 | BMWW-t | MT20 | 4.0 | 4.0 | 1.50 | 1.75 |
| 12 | BMV1+p | MT20 | 2.0 | 4.0 | | |


**READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS 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 |
|---|---|---|---|---|---|---|---|
| 7 | 1202 | 0 | 1202 | 0 | 0 | 1-8 | 1-8 |
| 12 | 1307 | 0 | 1307 | 0 | 0 | 5-8 | 5-8 |

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| 7 | 843 | 590 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 253 / 0 | 0 / 0 |
| 12 | 915 | 654 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 262 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 7, 12

**BRACING**
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.50 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 6-7, 4-8. DBS = 20-0-0 . CBF = 143 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. 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) |
|---|---|---|---|---|---|---|---|---|
| 1-2 | 0 / 27 | -77.4 | -77.4 | 0.10 (1) | 10.00 | 11-3 | -187 / 24 | 0.05 (1) |
| 2-3 | -1434 / 0 | -77.4 | -77.4 | 0.38 (1) | 5.02 | 3-10 | -271 / 0 | 0.20 (1) |
| 3-4 | -1239 / 0 | -77.4 | -77.4 | 0.36 (1) | 5.32 | 10-4 | 0 / 279 | 0.06 (1) |
| 4-5 | -1023 / 0 | -77.4 | -77.4 | 0.88 (1) | 4.50 | 4-8 | -41 / 0 | 0.03 (1) |
| 5-6 | -1023 / 0 | -77.4 | -77.4 | 0.89 (1) | 4.50 | 8-5 | -737 / 0 | 0.69 (1) |
| 7-6 | -1147 / 0 | 0.0 | 0.0 | 0.27 (1) | 5.94 | 8-6 | 0 / 1375 | 0.31 (1) |
| 12-2 | -1268 / 0 | 0.0 | 0.0 | 0.13 (1) | 7.15 | 2-11 | 0 / 1288 | 0.29 (1) |
| 12-11 | 0 / 0 | -17.5 | -17.5 | 0.09 (4) | 10.00 | | | |
| 11-10 | 0 / 1258 | -17.5 | -17.5 | 0.27 (1) | 10.00 | | | |
| 10-9 | 0 / 1053 | -17.5 | -17.5 | 0.34 (4) | 10.00 | | | |
| 9-8 | 0 / 1053 | -17.5 | -17.5 | 0.34 (4) | 10.00 | | | |
| 8-7 | 0 / 0 | -17.5 | -17.5 | 0.26 (4) | 10.00 | | | |

**DESIGN CRITERIA**

SPECIFIED LOADS:

| | | | | |
|---|---|---|---|---|
| TOP CH. | LL | = | 23.3 | PSF |
| | DL | = | 3.0 | PSF |
| BOT CH. | LL | = | 0.0 | PSF |
| | DL | = | 7.0 | PSF |
| TOTAL LOAD | | = | 33.3 | PSF |

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

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.84")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.84")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.12")

CSI: TC=0.89/1.00 (5-6:1) , BC=0.34/1.00 (8-10:4) , WB=0.69/1.00 (5-8:1) , SSI=0.29/1.00 (5-6:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

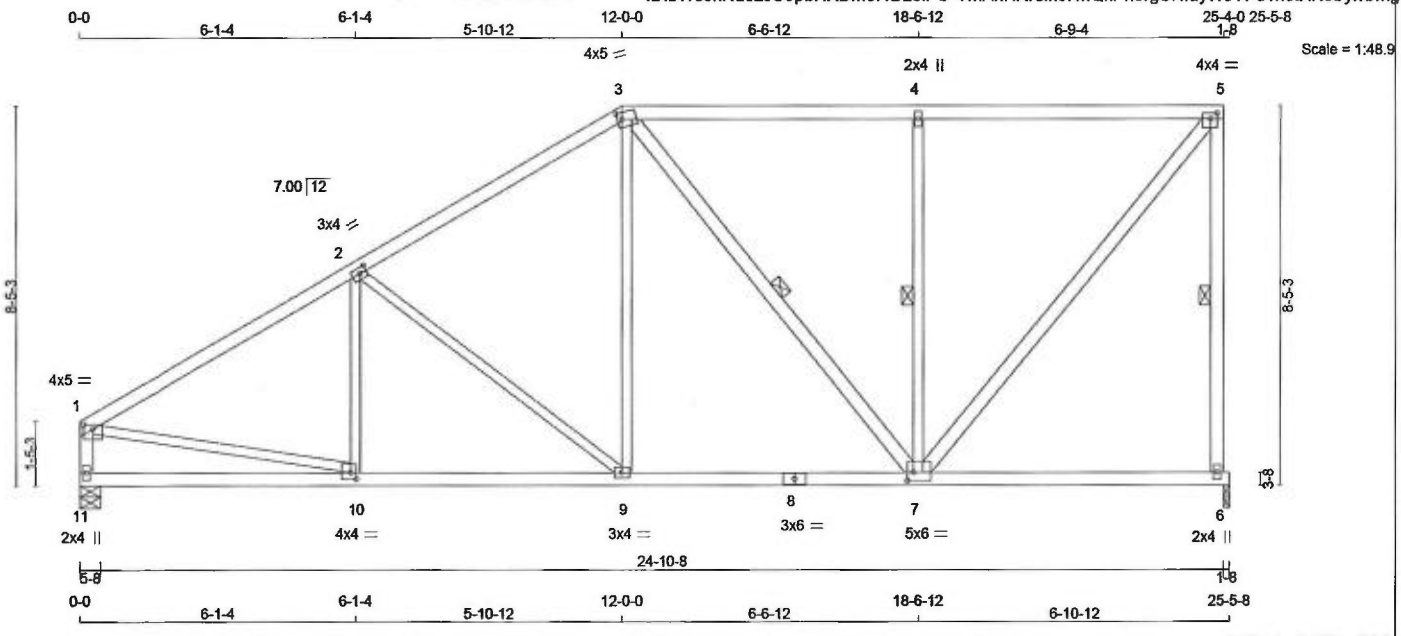
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (11) (INPUT = 0.90 )
JSI METAL= 0.47 (11) (INPUT = 1.00 )

KOTT

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | GREENPARK-MINNISALE HOMES-HEMLOCK 5C EL 2 | DRWG NO. |
|---|---|---|---|---|---|---|
| NE0818-105 | T39 | 1 | 1 | TRUSS DESC. | | **PAGE 36 OF 49** |

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Thu Aug 16 18:08:19 2018 Page 1
ID:bWeJhNa3z9S0pbNXDmof4Dz3iPU-VmAnHXrelkc7mQkPn9rgUNfuyWJYPs1n8fXNcSynCmg




TOTAL WEIGHT = 120 lb [M]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 1 - 3 | 2x4 | DRY | No.2 | SPF |
| 3 - 5 | 2x4 | DRY | No.2 | SPF |
| 6 - 5 | 2x4 | DRY | No.2 | SPF |
| 11 - 1 | 2x4 | DRY | No.2 | SPF |
| 11 - 8 | 2x4 | DRY | No.2 | SPF |
| 8 - 6 | 2x4 | DRY | No.2 | SPF |
| ALL WEBS EXCEPT | 2x3 | DRY | No.2 | SPF |
| 3 - 7 | 2x4 | DRY | No.2 | SPF |
| 7 - 5 | 2x4 | DRY | No.2 | SPF |

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE | PLATES | W | LEN | Y | X |
|---|---|---|---|---|---|---|
| 1 | TMVW-p | MT20 | 4.0 | 5.0 | 1.25 | 2.50 |
| 2 | TMWW-t | MT20 | 3.0 | 4.0 | 1.50 | 1.75 |
| 3 | TTWW-m | MT20 | 4.0 | 5.0 | 1.75 | 1.25 |
| 4 | TMW+w | MT20 | 2.0 | 4.0 | | |
| 5 | TMVW-t | MT20 | 4.0 | 4.0 | 1.50 | 1.75 |
| 6 | BMV1+p | MT20 | 2.0 | 4.0 | | |
| 7 | BMWWW-t | MT20 | 5.0 | 6.0 | 2.25 | 1.50 |
| 8 | BS-t | MT20 | 3.0 | 6.0 | | |
| 9 | BMWW-t | MT20 | 3.0 | 4.0 | | |
| 10 | BMWW-t | MT20 | 4.0 | 4.0 | 1.75 | 1.50 |
| 11 | 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 |
|---|---|---|---|---|---|---|---|
| 6 | 1202 | 0 | 1202 | 0 | 0 | 1-8 | 1-8 |
| 11 | 1202 | 0 | 1202 | 0 | 0 | 5-8 | 5-8 |

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| 6 | 843 | 590 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 253 / 0 | 0 / 0 |
| 11 | 843 | 590 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 253 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 6, 11

**BRACING**
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.73 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 1x4 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 5-6, 3-7, 4-7. DBS = 20-0-0 . CBF = 144 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. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) FROM | TO | LC1 MAX CSI (LC) | MAX. UNBRAC LENGTH |
|---|---|---|---|---|---|
| 1- 2 | -1447 / 0 | -77.4 | -77.4 | 0.58 (1) | 4.73 |
| 2- 3 | -1113 / 0 | -77.4 | -77.4 | 0.53 (1) | 5.27 |
| 3- 4 | -793 / 0 | -77.4 | -77.4 | 0.62 (1) | 5.70 |
| 4- 5 | -794 / 0 | -77.4 | -77.4 | 0.63 (1) | 5.70 |
| 6- 5 | -1154 / 0 | 0.0 | 0.0 | 0.37 (1) | 5.93 |
| 11- 1 | -1157 / 0 | 0.0 | 0.0 | 0.12 (1) | 7.40 |
| 11-10 | 0 / 0 | -17.5 | -17.5 | 0.15 (4) | 10.00 |
| 10- 9 | 0 / 1273 | -17.5 | -17.5 | 0.28 (1) | 10.00 |
| 9- 8 | 0 / 940 | -17.5 | -17.5 | 0.26 (4) | 10.00 |
| 8- 7 | 0 / 940 | -17.5 | -17.5 | 0.26 (4) | 10.00 |
| 7- 6 | 0 / 0 | -17.5 | -17.5 | 0.19 (4) | 10.00 |

| WEBS MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
|---|---|---|
| 10- 2 | -117 / 65 | 0.04 (1) |
| 2- 9 | -429 / 0 | 0.50 (1) |
| 9- 3 | 0 / 367 | 0.08 (1) |
| 3- 7 | -233 / 0 | 0.13 (1) |
| 7- 4 | -641 / 0 | 0.29 (1) |
| 7- 5 | 0 / 1241 | 0.20 (1) |
| 1-10 | 0 / 1295 | 0.29 (1) |

**DESIGN CRITERIA**

SPECIFIED LOADS:

| | | | | |
|---|---|---|---|---|
| TOP CH. | LL | = | 23.3 | PSF |
| | DL | = | 3.0 | PSF |
| BOT CH. | LL | = | 0.0 | PSF |
| | DL | = | 7.0 | PSF |
| TOTAL LOAD | | = | 33.3 | PSF |

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

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.84")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.84")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.09")

CSI: TC=0.63/1.00 (4-5:1) , BC=0.28/1.00 (9-10:1) , WB=0.50/1.00 (2-9:1) , SSI=0.25/1.00 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (10) (INPUT = 0.90 )
JSI METAL= 0.48 (10) (INPUT = 1.00 )

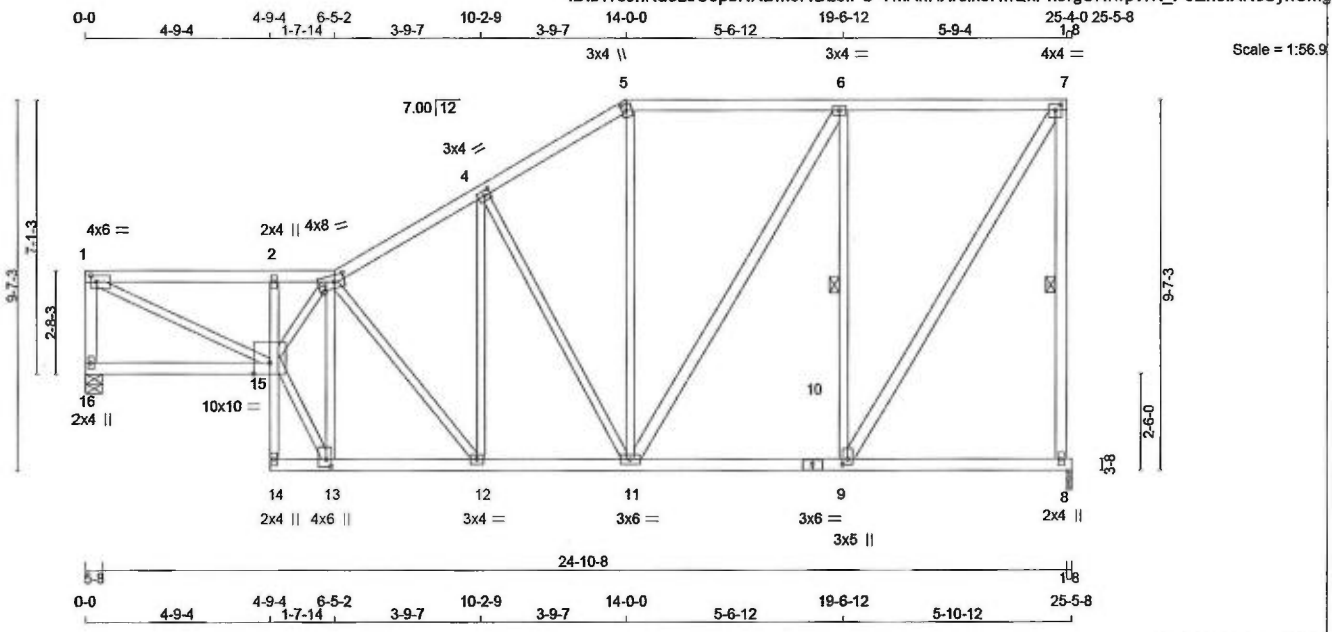
LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
PROVINCE OF ONTARIO
Aug 16, 2018

**READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS 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. |
|---|---|---|---|---|---|
| NE0818-105 | T40 | 1 | 1 | GREENPARK-MINNISALE HOMES-HEMLOCK 5C EL 2<br>TRUSS DESC. | **PAGE 37 OF 49** |

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Thu Aug 16 18:08:19 2018 Page 1
ID:bWeJhNa3z9S0pbNXDmof4Dz3iPU-VmAnHXrelkc7mQkPn9rgUNfwpWK_PoEn8fXNcSynCmg




TOTAL WEIGHT = 143 lb [M]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 16 - 1 | 2x4 | DRY | No.2 | SPF |
| 1 - 3 | 2x4 | DRY | No.2 | SPF |
| 3 - 5 | 2x4 | DRY | No.2 | SPF |
| 5 - 7 | 2x4 | DRY | No.2 | SPF |
| 8 - 7 | 2x4 | DRY | No.2 | SPF |
| 16 - 15 | 2x4 | DRY | No.2 | SPF |
| 14 - 2 | 2x3 | DRY | No.2 | SPF |
| 14 - 10 | 2x4 | DRY | No.2 | SPF |
| 10 - 8 | 2x4 | DRY | No.2 | SPF |
| ALL WEBS EXCEPT | 2x3 | DRY | No.2 | SPF |
| 11 - 6 | 2x4 | DRY | No.2 | SPF |
| 9 - 7 | 2x4 | DRY | No.2 | SPF |

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE | PLATES | W | LEN | Y | X |
|---|---|---|---|---|---|---|
| 1 | TMVW-t | MT20 | 4.0 | 6.0 | 2.00 | 1.75 |
| 2 | TMV+p | MT20 | 2.0 | 4.0 | | |
| 3 | TTWWW-m | MT20 | 4.0 | 8.0 | 2.00 | 3.00 |
| 4 | TMWW-t | MT20 | 3.0 | 4.0 | 1.50 | 1.75 |
| 5 | TTW+m | MT20 | 3.0 | 4.0 | 2.00 | 1.25 |
| 6 | TMWW-t | MT20 | 3.0 | 4.0 | | |
| 7 | TMVW-t | MT20 | 4.0 | 4.0 | 1.75 | 1.75 |
| 8 | BMV1+p | MT20 | 2.0 | 4.0 | | |
| 9 | BMWW+t | MT20 | 3.0 | 5.0 | 1.75 | 1.50 |
| 10 | BS-t | MT20 | 3.0 | 6.0 | | |
| 11 | BMWWW-t | MT20 | 3.0 | 6.0 | | |
| 12 | BMWW-t | MT20 | 3.0 | 4.0 | | |
| 13 | BMWW+t | MT20 | 4.0 | 6.0 | 2.25 | 1.50 |
| 14 | BMV+p | MT20 | 2.0 | 4.0 | | |
| 15 | BVMWWW-t | MT20 | 10.0 | 10.0 | Edge | |
| 16 | BMV1+p | MT20 | 2.0 | 4.0 | | |

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


**READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS 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 | REQRD BRG |
|---|---|---|---|---|---|---|---|
| 16 | 1202 | 0 | 1202 | 0 | 0 | 5-8 | 5-8 |
| 8 | 1202 | 0 | 1202 | 0 | 0 | 1-8 | 1-8 |

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| 16 | 843 | 590 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 253 / 0 | 0 / 0 |
| 8 | 843 | 590 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 253 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 16, 8

**BRACING**
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.44 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 7-8, 6-9. DBS = 20-0-0 . CBF = 145 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. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) FROM | TO | LC1 MAX CSI (LC) | MAX. UNBRAC LENGTH |
|---|---|---|---|---|---|
| 16- 1 | -1159 / 0 | 0.0 | 0.0 | 0.16 (1) | 7.40 |
| 1- 2 | -2027 / 0 | -77.4 | -77.4 | 0.32 (1) | 4.44 |
| 2- 3 | -2013 / 0 | -77.4 | -77.4 | 0.20 (1) | 4.57 |
| 3- 4 | -1200 / 0 | -77.4 | -77.4 | 0.21 (1) | 5.60 |
| 4- 5 | -954 / 0 | -77.4 | -77.4 | 0.20 (1) | 6.11 |
| 5- 6 | -810 / 0 | -77.4 | -77.4 | 0.44 (1) | 6.06 |
| 6- 7 | -614 / 0 | -77.4 | -77.4 | 0.43 (1) | 6.25 |
| 8- 7 | -1161 / 0 | 0.0 | 0.0 | 0.51 (1) | 5.91 |
| 16-15 | 0 / 0 | -17.5 | -17.5 | 0.12 (4) | 10.00 |
| 14-15 | -18 / 0 | 0.0 | 0.0 | 0.09 (1) | 7.81 |
| 15- 2 | -333 / 0 | 0.0 | 0.0 | 0.10 (1) | 7.81 |
| 14-13 | 0 / 14 | -17.5 | -17.5 | 0.06 (1) | 10.00 |
| 13-12 | 0 / 1190 | -17.5 | -17.5 | 0.25 (1) | 10.00 |
| 12-11 | 0 / 1053 | -17.5 | -17.5 | 0.21 (1) | 10.00 |
| 11-10 | 0 / 614 | -17.5 | -17.5 | 0.19 (4) | 10.00 |
| 10- 9 | 0 / 614 | -17.5 | -17.5 | 0.19 (4) | 10.00 |
| 9- 8 | 0 / 0 | -17.5 | -17.5 | 0.14 (4) | 10.00 |

| WEBS MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
|---|---|---|
| 1-15 | 0 / 2258 | 0.51 (1) |
| 15-13 | 0 / 2265 | 0.51 (1) |
| 15- 3 | 0 / 1579 | 0.36 (1) |
| 13- 3 | -1870 / 0 | 0.74 (1) |
| 3-12 | -222 / 0 | 0.15 (1) |
| 12- 4 | 0 / 222 | 0.05 (1) |
| 4-11 | -510 / 0 | 0.70 (1) |
| 11- 5 | 0 / 199 | 0.04 (1) |
| 11- 6 | 0 / 387 | 0.06 (1) |
| 9- 6 | -877 / 0 | 0.54 (1) |
| 9- 7 | 0 / 1165 | 0.19 (1) |

**DESIGN CRITERIA**

SPECIFIED LOADS:

| | | | | |
|---|---|---|---|---|
| TOP CH. | LL | = | 23.3 | PSF |
| | DL | = | 3.0 | PSF |
| BOT CH. | LL | = | 0.0 | PSF |
| | DL | = | 7.0 | PSF |
| TOTAL LOAD | | = | 33.3 | PSF |

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

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.84")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.10")
ALLOWABLE DEFL.(TL)= L/360 (0.84")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.17")

CSI: TC=0.51/1.00 (7-8:1) , BC=0.25/1.00 (12-13:1) , WB=0.74/1.00 (3-13:1) , SSI=0.21/1.00 (6-7:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

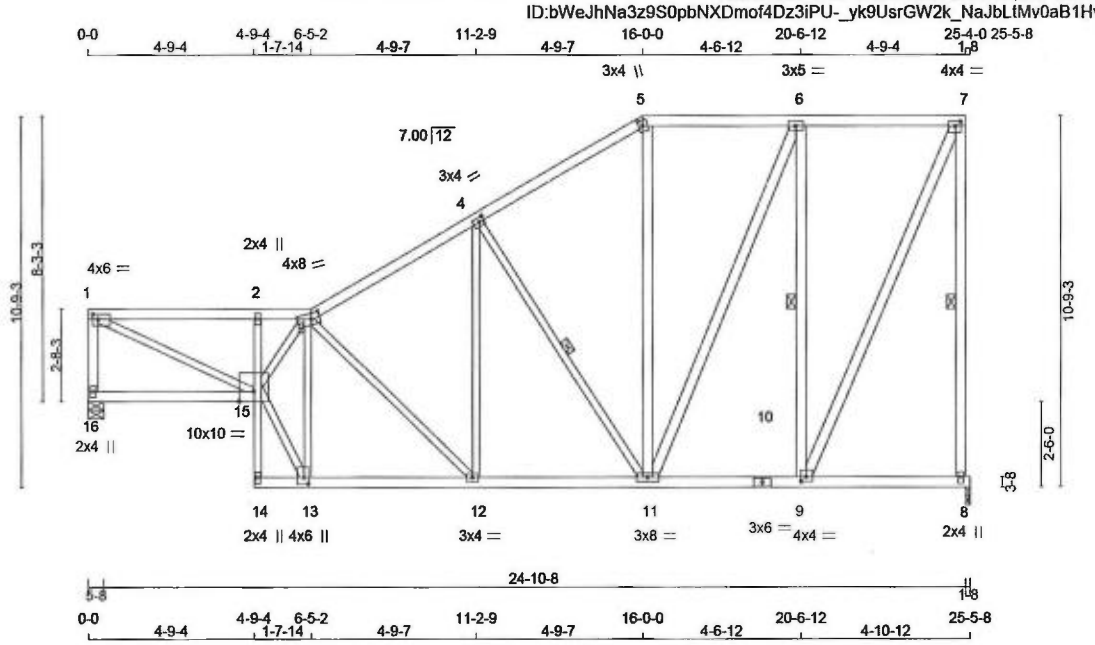
JSI GRIP= 0.89 (1) (INPUT = 0.90 )
JSI METAL= 0.51 (1) (INPUT = 1.00 )

CONTINUED ON PAGE 2

KOTT

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | DRWG NO. |
|---|---|---|---|---|---|
| NE0818-105 | T41 | 3 | 1 | GREENPARK-MINNISALE HOMES-HEMLOCK 5C EL 2 TRUSS DESC. | **PAGE 38 OF 49** |

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Thu Aug 16 18:08:20 2018 Page 1
ID:bWeJhNa3z9S0pbNXDmof4Dz3iPU-_yk9UsrGW2k_NaJbLfMv0aB1Hvg98FJwMJGw8uynCmf




TOTAL WEIGHT = 3 X 157 = 470 lb

[M][F]

**LUMBER**

N. L. G. A. RULES

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 16 - 1 | 2x4 | DRY | No.2 | SPF |
| 1 - 3 | 2x4 | DRY | No.2 | SPF |
| 3 - 5 | 2x4 | DRY | No.2 | SPF |
| 5 - 7 | 2x4 | DRY | No.2 | SPF |
| 8 - 7 | 2x4 | DRY | No.2 | SPF |
| 16 - 15 | 2x4 | DRY | No.2 | SPF |
| 14 - 2 | 2x3 | DRY | No.2 | SPF |
| 14 - 10 | 2x4 | DRY | No.2 | SPF |
| 10 - 8 | 2x4 | DRY | No.2 | SPF |
| ALL WEBS EXCEPT | 2x3 | DRY | No.2 | SPF |
| 11 - 5 | 2x4 | DRY | No.2 | SPF |
| 11 - 6 | 2x4 | DRY | No.2 | SPF |
| 9 - 6 | 2x4 | DRY | No.2 | SPF |
| 9 - 7 | 2x4 | DRY | No.2 | SPF |

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE | PLATES | W | LEN | Y | X |
|---|---|---|---|---|---|---|
| 1 | TMVW-t | MT20 | 4.0 | 6.0 | 1.75 | 2.00 |
| 2 | TMV+p | MT20 | 2.0 | 4.0 | | |
| 3 | TTWWW-m | MT20 | 4.0 | 8.0 | 2.00 | 3.00 |
| 4 | TMWW-t | MT20 | 3.0 | 4.0 | 1.50 | 1.75 |
| 5 | TTW+m | MT20 | 3.0 | 4.0 | 2.00 | 1.25 |
| 6 | TMWW-t | MT20 | 3.0 | 5.0 | | |
| 7 | TMVW-t | MT20 | 4.0 | 4.0 | 1.50 | 1.75 |
| 8 | BMV1+p | MT20 | 2.0 | 4.0 | | |
| 9 | BMWW-t | MT20 | 4.0 | 4.0 | 1.50 | 1.75 |
| 10 | BS-t | MT20 | 3.0 | 6.0 | | |
| 11 | BMWWW-t | MT20 | 3.0 | 8.0 | | |
| 12 | BMWW-t | MT20 | 3.0 | 4.0 | | |
| 13 | BMWW+t | MT20 | 4.0 | 6.0 | 2.25 | 1.50 |
| 14 | BMV+p | MT20 | 2.0 | 4.0 | | |
| 15 | BVMWWW-I | MT20 | 10.0 | 10.0 | Edge | |
| 16 | BMV1+p | MT20 | 2.0 | 4.0 | | |

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


**READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS 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 | REQRD BRG |
|---|---|---|---|---|---|---|---|
| 16 | 1214 | 0 | 1214 | 0 | 0 | 5-8 | 5-8 |
| 8 | 1259 | 0 | 1259 | 0 | 0 | 1-8 | 1-8 |

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| 16 | 854 | 590 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 264 / 0 | 0 / 0 |
| 8 | 889 | 590 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 299 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 16, 8

**BRACING**

FOR SECTION 5-7, MAX. PURLIN SPACING = 2.00 FT.
FOR OTHER SECTIONS, TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.47 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 7-8, 4-11, 6-9. DBS = 20-0-0 . CBF = 153 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. 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) |
|---|---|---|---|---|---|---|---|---|
| 16- 1 | -1172 / 0 | 0.0 | 0.0 | 0.16 (1) | 7.37 | 1-15 | 0 / 2287 | 0.51 (1) |
| 1- 2 | -2053 / 0 | -77.4 | -77.4 | 0.29 (1) | 4.47 | 15-13 | 0 / 2297 | 0.52 (1) |
| 2- 3 | -2038 / 0 | -77.4 | -77.4 | 0.16 (1) | 4.61 | 15- 3 | 0 / 1596 | 0.36 (1) |
| 3- 4 | -1169 / 0 | -77.4 | -77.4 | 0.25 (1) | 5.62 | 13- 3 | -1896 / 0 | 0.75 (1) |
| 4- 5 | -824 / 0 | -77.4 | -77.4 | 0.24 (1) | 6.25 | 3-12 | -252 / 0 | 0.22 (1) |
| 5- 6 | -693 / 0 | -84.9 | -84.9 | 0.24 (1) | 2.00 | 12- 4 | 0 / 259 | 0.06 (1) |
| 6- 7 | -486 / 0 | -84.9 | -84.9 | 0.23 (1) | 2.00 | 4-11 | -626 / 0 | 0.36 (1) |
| 8- 7 | -1224 / 0 | 0.0 | 0.0 | 0.72 (1) | 5.80 | 11- 5 | 0 / 118 | 0.02 (4) |
| | | | | | | 11- 6 | 0 / 532 | 0.09 (1) |
| 16-15 | 0 / 0 | -17.5 | -17.5 | 0.12 (4) | 10.00 | 9- 6 | -979 / 0 | 0.58 (1) |
| 14-15 | -19 / 0 | 0.0 | 0.0 | 0.08 (1) | 7.81 | 9- 7 | 0 / 1174 | 0.19 (1) |
| 15- 2 | -332 / 0 | 0.0 | 0.0 | 0.08 (1) | 7.81 | | | |
| 14-13 | 0 / 14 | -17.5 | -17.5 | 0.07 (4) | 10.00 | | | |
| 13-12 | 0 / 1207 | -17.5 | -17.5 | 0.26 (1) | 10.00 | | | |
| 12-11 | 0 / 1030 | -17.5 | -17.5 | 0.20 (1) | 10.00 | | | |
| 11-10 | 0 / 486 | -17.5 | -17.5 | 0.13 (4) | 10.00 | | | |
| 10- 9 | 0 / 486 | -17.5 | -17.5 | 0.13 (4) | 10.00 | | | |
| 9- 8 | 0 / 0 | -17.5 | -17.5 | 0.09 (4) | 10.00 | | | |

**DESIGN CRITERIA**

SPECIFIED LOADS:

| | | | | |
|---|---|---|---|---|
| TOP CH. | LL | = | 23.3 | PSF |
| | DL | = | 3.0 | PSF |
| BOT CH. | LL | = | 0.0 | PSF |
| | DL | = | 7.0 | PSF |
| TOTAL LOAD | | = | 33.3 | PSF |

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

LOADING IN HIGHEST FLAT SECTION BASED ON PIGGYBACK TRUSS WITH SLOPES OF 7.00/12 AND -7.00/12 AND RESPECTIVE WALL HEIGHTS OF 0-0 AND 0-0 AND AN ADDITIONAL DEAD LOAD OF 3.0 P.S.F.

LOADING IN OTHER FLAT SECTIONS BASED ON A SLOPE OF 7.00/12

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.84")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.10")
ALLOWABLE DEFL.(TL)= L/360 (0.84")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.18")

CSI: TC=0.72/1.00 (7-8:1) , BC=0.26/1.00 (12-13:1) , WB=0.75/1.00 (3-13:1) , SSI=0.19/1.00 (6-7:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

CONTINUED ON PAGE 2

KOTT

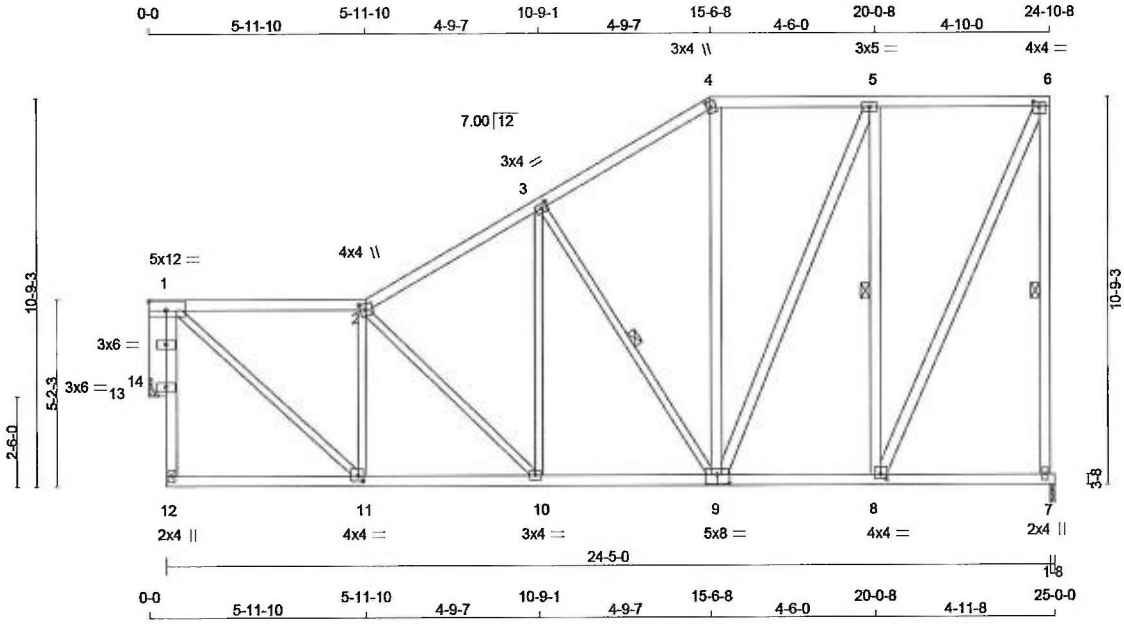
JSI GRIP= 0.88 (3) (INPUT = 0.90 )
JSI METAL= 0.51 (1) (INPUT = 1.00 )

**READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS 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. |
|---|---|---|---|---|---|
| NE0818-105 | T43 | 1 | 1 | GREENPARK-MINNISALE HOMES-HEMLOCK 5C EL 2 | PAGE 40 OF 49 |
| | | | | TRUSS DESC. | |

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Thu Aug 16 18:08:21 2018 Page 1
ID:bWeJhNa3z9S0pbNXDmof4Dz3iPU-S8HYiCsuHMsr?kuouat8ZokDIJ0mtlf4bz0TgKynCm




TOTAL WEIGHT = 156 lb [M][F]

**LUMBER**

N. L. G. A. RULES

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 12 - 1 | 2x4 | DRY | No.2 | SPF |
| 1 - 2 | 2x4 | DRY | No.2 | SPF |
| 2 - 4 | 2x4 | DRY | No.2 | SPF |
| 4 - 6 | 2x4 | DRY | No.2 | SPF |
| 7 - 6 | 2x4 | DRY | No.2 | SPF |
| 12 - 9 | 2x4 | DRY | No.2 | SPF |
| 9 - 7 | 2x4 | DRY | No.2 | SPF |
| BEARING BLOCKS | | | | |
| BL1 | 2x6 | DRY | No.2 | SPF |
| ALL WEBS EXCEPT | 2x3 | DRY | No.2 | SPF |
| 9 - 4 | 2x4 | DRY | No.2 | SPF |
| 9 - 5 | 2x4 | DRY | No.2 | SPF |
| 8 - 5 | 2x4 | DRY | No.2 | SPF |
| 8 - 6 | 2x4 | DRY | No.2 | SPF |

DRY: SEASONED LUMBER.

BEARING NOTE: GAP BETWEEN INSIDE OF TOP CHORD BEARING AND FIRST DIAGONAL OR VERTICAL WEB SHALL NOT EXCEED 0.5 INCHES.

**PLATES (table is in inches)**

| JT | TYPE | PLATES | W | LEN | Y | X |
|---|---|---|---|---|---|---|
| 1 | TMVWK1-t | MT20 | 5.0 | 12.0 | 3.00 | Edge |
| 2 | TTWW+m | MT20 | 4.0 | 4.0 | 2.00 | 1.75 |
| 3 | TMWW-t | MT20 | 3.0 | 4.0 | 1.50 | 1.75 |
| 4 | TTW+m | MT20 | 3.0 | 4.0 | 2.00 | 1.25 |
| 5 | TMWW-t | MT20 | 3.0 | 5.0 | | |
| 6 | TMVW-t | MT20 | 4.0 | 4.0 | 1.50 | 2.00 |
| 7 | BMV1+p | MT20 | 2.0 | 4.0 | | |
| 8 | BMWW-t | MT20 | 4.0 | 4.0 | 1.50 | 2.00 |
| 9 | BSWWW-t | MT20 | 5.0 | 8.0 | 3.00 | 4.00 |
| 10 | BMWW-t | MT20 | 3.0 | 4.0 | | |
| 11 | BMWW-t | MT20 | 4.0 | 4.0 | 1.75 | 1.50 |
| 12 | BMV+p | MT20 | 2.0 | 4.0 | | |
| 13 | KP-p | MT20 | 3.0 | 6.0 | | |
| 13 | KP-p | MT20 | 3.0 | 6.0 | | |


**READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS 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 |
|---|---|---|---|---|---|---|---|
| 14(1) | 1157 | 0 | 1157 | 0 | 0 | MECHANICAL | |
| | | | | | | (** SEE "BEARING NOTE" **) | |
| 7 | 1230 | 0 | 1230 | 0 | 0 | 1-8 | 1-8 |

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 14(1) TO RESIST THE MAX FACTORED REACTIONS.

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| 14(1) | 813 | 561 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 252 / 0 | 0 / 0 |
| 7 | 868 | 576 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 293 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 7

**BRACING**

FOR SECTION 4-6, MAX. PURLIN SPACING = 2.00 FT.
FOR OTHER SECTIONS, TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.69 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 6-7, 3-9, 5-8. DBS = 20-0-0 . CBF = 149 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. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) FROM | TO | LC | MAX CSI (LC) | MAX. UNBRAC LENGTH |
|---|---|---|---|---|---|---|
| 12-13 | 0 / 43 | 0.0 | 0.0 | 0.24 (1) | 10.00 | |
| 13- 1 | 0 / 43 | 0.0 | 0.0 | 0.24 (1) | 10.00 | |
| 1- 2 | -1076 / 0 | -77.4 | -77.4 | 0.32 (1) | 5.69 | |
| 2- 3 | -1107 / 0 | -77.4 | -77.4 | 0.25 (1) | 5.74 | |
| 3- 4 | -793 / 0 | -77.4 | -77.4 | 0.24 (1) | 6.25 | |
| 4- 5 | -666 / 0 | -84.9 | -84.9 | 0.24 (1) | 2.00 | |
| 5- 6 | -478 / 0 | -84.9 | -84.9 | 0.24 (1) | 2.00 | |
| 7- 6 | -1194 / 0 | 0.0 | 0.0 | 0.70 (1) | 5.85 | |
| 12-11 | 0 / 74 | -17.5 | -17.5 | 0.12 (4) | 10.00 | |
| 11-10 | 0 / 1093 | -17.5 | -17.5 | 0.23 (1) | 10.00 | |
| 10- 9 | 0 / 977 | -17.5 | -17.5 | 0.19 (1) | 10.00 | |
| 9- 8 | 0 / 478 | -17.5 | -17.5 | 0.13 (4) | 10.00 | |
| 8- 7 | 0 / 0 | -17.5 | -17.5 | 0.09 (4) | 10.00 | |

| WEBS MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
|---|---|---|
| 1-11 | 0 / 1351 | 0.30 (1) |
| 11- 2 | -805 / 0 | 0.32 (1) |
| 2-10 | -165 / 0 | 0.14 (1) |
| 10- 3 | 0 / 201 | 0.05 (4) |
| 3- 9 | -575 / 0 | 0.33 (1) |
| 9- 4 | 0 / 106 | 0.02 (4) |
| 9- 5 | 0 / 494 | 0.08 (1) |
| 8- 5 | -946 / 0 | 0.56 (1) |
| 8- 6 | 0 / 1140 | 0.18 (1) |
| 1-14 | -1165 / 0 | 0.12 (1) |
| 13-14 | 0 / 143 | 0.00 (1) |

**DESIGN CRITERIA**

SPECIFIED LOADS:

| | | | | |
|---|---|---|---|---|
| TOP CH. | LL = | 23.3 | PSF |
| | DL = | 3.0 | PSF |
| BOT CH. | LL = | 0.0 | PSF |
| | DL = | 7.0 | PSF |
| TOTAL LOAD | = | 33.3 | PSF |

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

LOADING IN HIGHEST FLAT SECTION BASED ON PIGGYBACK TRUSS WITH SLOPES OF 7.00/12 AND -7.00/12 AND RESPECTIVE WALL HEIGHTS OF 0-0 AND 0-0 AND AN ADDITIONAL DEAD LOAD OF 3.0 P.S.F.

LOADING IN OTHER FLAT SECTIONS BASED ON A SLOPE OF 7.00/12

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.81")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.81")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.10")

CSI: TC=0.70/1.00 (6-7:1) , BC=0.23/1.00 (10-11:1) , WB=0.56/1.00 (5-8:1) , SSI=0.20/1.00 (5-6:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

CONTINUED ON PAGE 2

KOTT

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

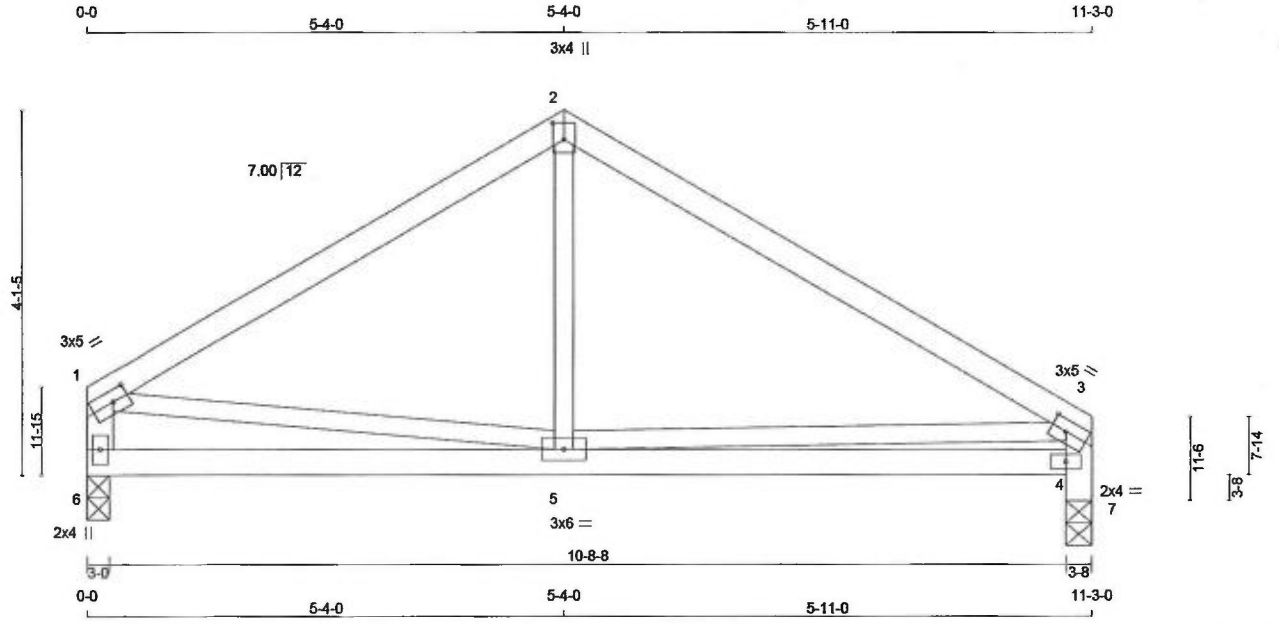
JSI GRIP= 0.90 (1) (INPUT = 0.90 )
JSI METAL= 0.38 (11) (INPUT = 1.00 )

**READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS 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. | GREENPARK-MINNISALE HOMES-HEMLOCK 5C EL 2 | DRWG NO. |
|---|---|---|---|---|---|---|
| NE0818-105 | T48 | 1 | 1 | TRUSS DESC. | | **PAGE 42 OF 49** |

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Thu Aug 16 18:08:21 2018 Page 1
ID:bWeJhNa3z9S0pbNXDmof4Dz3iPU-S8HYiCsuHMsr?kuouat8ZokGgJ1vtst4bz0TgKynCme




TOTAL WEIGHT = 41 lb [M]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 1 - 2 | 2x4 | DRY | No.2 | SPF |
| 2 - 3 | 2x4 | DRY | No.2 | SPF |
| 6 - 1 | 2x4 | DRY | No.2 | SPF |
| 7 - 3 | 2x4 | DRY | No.2 | SPF |
| 6 - 4 | 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 |
|---|---|---|---|---|---|---|
| 1 | TMVW-t | MT20 | 3.0 | 5.0 | 1.50 | 2.00 |
| 2 | TTW+p | MT20 | 3.0 | 4.0 | 2.25 | 1.50 |
| 3 | TMVW-t | MT20 | 3.0 | 5.0 | 1.50 | 2.00 |
| 4 | BVM-I | MT20 | 2.0 | 4.0 | | |
| 5 | BMWWW-t | MT20 | 3.0 | 6.0 | | |
| 6 | 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 |
|---|---|---|---|---|---|---|---|
| 6 | 534 | 0 | 534 | 0 | 0 | 3-0 | 3-0 |
| 7 | 534 | 0 | 534 | 0 | 0 | 3-8 | 3-8 |

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| 6 | 374 | 262 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 113 / 0 | 0 / 0 |
| 7 | 374 | 262 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 113 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 6, 7

**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) |
|---|---|---|---|---|---|---|---|---|
| 1-2 | -476 / 0 | -77.4 | -77.4 | 0.39 (1) | 6.25 | 5-2 | 0 / 112 | 0.04 (4) |
| 2-3 | -476 / 0 | -77.4 | -77.4 | 0.49 (1) | 6.25 | 1-5 | 0 / 414 | 0.09 (1) |
| 6-1 | -499 / 0 | 0.0 | 0.0 | 0.05 (1) | 7.81 | 5-3 | 0 / 412 | 0.09 (1) |
| 7-4 | -534 / 0 | 0.0 | 0.0 | 0.05 (1) | 7.81 | | | |
| 4-3 | -492 / 0 | 0.0 | 0.0 | 0.05 (1) | 7.81 | | | |
| 6-5 | 0 / 0 | -17.5 | -17.5 | 0.16 (4) | 10.00 | | | |
| 5-4 | 0 / 0 | -17.5 | -17.5 | 0.16 (4) | 10.00 | | | |

**DESIGN CRITERIA**

SPECIFIED LOADS:

| | | | | |
|---|---|---|---|---|
| TOP CH. | LL | = | 23.3 | PSF |
| | DL | = | 3.0 | PSF |
| BOT CH. | LL | = | 0.0 | PSF |
| | DL | = | 7.0 | PSF |
| TOTAL LOAD | | = | 33.3 | PSF |

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.38")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.38")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.03")

CSI: TC=0.49/1.00 (2-3:1) , BC=0.16/1.00 (5-6:4) , WB=0.09/1.00 (1-5:1) , SSI=0.15/1.00 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE LEFT 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 | 618 | 354 | 1667 | 822 | 2284 | 1656 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

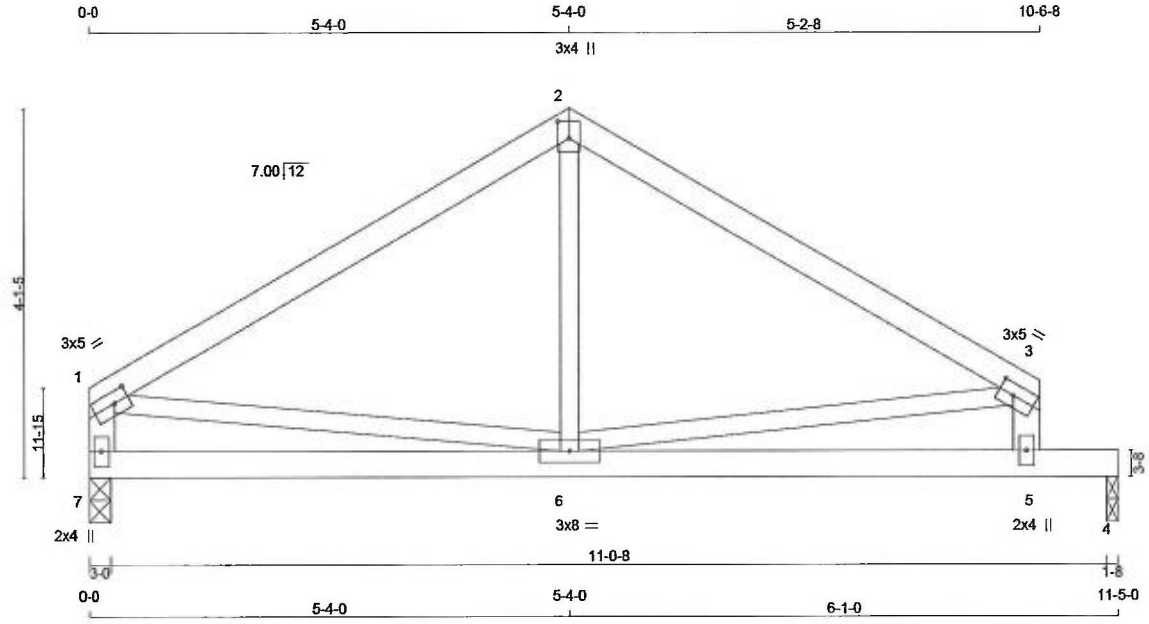
JSI GRIP= 0.83 (5) (INPUT = 0.90 )
JSI METAL= 0.18 (3) (INPUT = 1.00 )


READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS 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. | GREENPARK-MINNISALE HOMES-HEMLOCK 5C EL 2 | DRWG NO. |
|---|---|---|---|---|---|---|
| NE0818-105 | T49 | 1 | 1 | TRUSS DESC. | | **PAGE 43 OF 49** |

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Thu Aug 16 18:08:21 2018 Page 1
ID:bWeJhNa3z9S0pbNXDmof4Dz3iPU-S8HYiCsuHMsr?kuouat8ZokH6Jw4tsl4bz0TgKynCm




TOTAL WEIGHT = 39 lb [M]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 1 - 2 | 2x4 | DRY | No.2 | SPF |
| 2 - 3 | 2x4 | DRY | No.2 | SPF |
| 7 - 1 | 2x4 | DRY | No.2 | SPF |
| 5 - 3 | 2x4 | DRY | No.2 | SPF |
| 7 - 4 | 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 |
|---|---|---|---|---|---|---|
| 1 | TMVW-t | MT20 | 3.0 | 5.0 | 1.50 | 2.00 |
| 2 | TTW+p | MT20 | 3.0 | 4.0 | 2.25 | 1.50 |
| 3 | TMVW-t | MT20 | 3.0 | 5.0 | 1.50 | 2.00 |
| 5 | BMV+p | MT20 | 2.0 | 4.0 | | |
| 6 | BMWWW-t | MT20 | 3.0 | 8.0 | | |
| 7 | 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 |
|---|---|---|---|---|---|---|---|
| 7 | 541 | 0 | 541 | 0 | 0 | 3-0 | 3-0 |
| 4 | 541 | 0 | 541 | 0 | 0 | 1-8 | 1-8 |

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| 7 | 380 | 266 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 114 / 0 | 0 / 0 |
| 4 | 380 | 266 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 114 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 7, 4

**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) |
|---|---|---|---|---|---|---|---|---|
| 1-2 | -519 / 0 | -77.4 | -77.4 | 0.39 (1) | 6.25 | 6-2 | 0 / 125 | 0.04 (4) |
| 2-3 | -519 / 0 | -77.4 | -77.4 | 0.37 (1) | 6.25 | 1-6 | 0 / 452 | 0.10 (1) |
| 7-1 | -525 / 0 | 0.0 | 0.0 | 0.05 (1) | 7.81 | 6-3 | 0 / 453 | 0.10 (1) |
| 5-3 | -528 / 0 | 0.0 | 0.0 | 0.05 (1) | 7.81 | | | |
| 7-6 | 0 / 0 | -17.5 | -17.5 | 0.22 (1) | 10.00 | | | |
| 6-5 | 0 / 0 | -17.5 | -17.5 | 0.60 (1) | 10.00 | | | |
| 5-4 | 0 / 0 | -94.9 | -94.9 | 0.60 (1) | 10.00 | | | |

**DESIGN CRITERIA**

SPECIFIED LOADS:

| | | | | |
|---|---|---|---|---|
| TOP CH. | LL | = | 23.3 | PSF |
| | DL | = | 3.0 | PSF |
| BOT CH. | LL | = | 0.0 | PSF |
| | DL | = | 7.0 | PSF |
| TOTAL LOAD | | = | 33.3 | PSF |

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.38")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.13")
ALLOWABLE DEFL.(TL)= L/360 (0.38")
CALCULATED VERT. DEFL.(TL) = L/ 534 (0.26")

CSI: TC=0.39/1.00 (1-2:1) , BC=0.60/1.00 (4-5:1) , WB=0.10/1.00 (3-6:1) , SSI=0.42/1.00 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

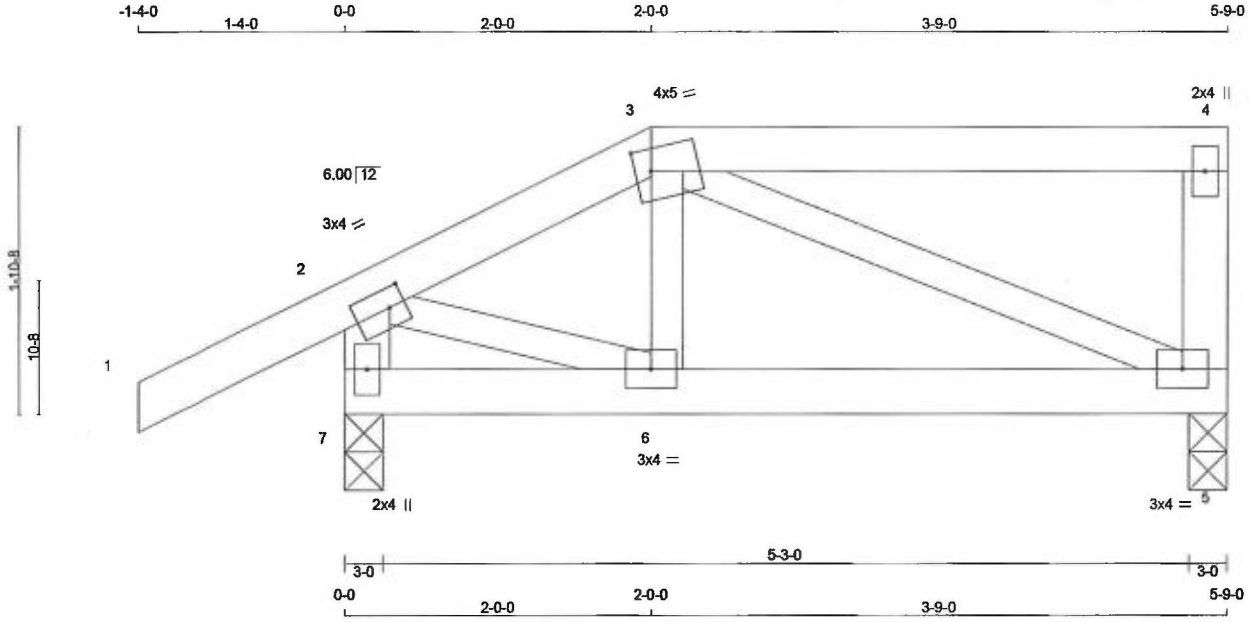
JSI GRIP= 0.57 (3) (INPUT = 0.90 )
JSI METAL= 0.19 (1) (INPUT = 1.00 )


**READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS 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. | GREENPARK-MINNISALE HOMES-HEMLOCK 5C EL 2 | DRWG NO. |
|---|---|---|---|---|---|---|
| NE0818-105 | T50 | 1 | 1 | TRUSS DESC. | | **PAGE 44 OF 49** |

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Thu Aug 16 18:08:22 2018 Page 1
ID:bWeJhNa3z9S0pbNXDmof4Dz3iPU-wLrwvYtW2f_idtT_SHON5?HW6jOXcJZDqdl1DnynCmd




TOTAL WEIGHT = 23 lb [M]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 1 - 3 | 2x4 | DRY | No.2 | SPF |
| 3 - 4 | 2x4 | DRY | No.2 | SPF |
| 5 - 4 | 2x4 | DRY | No.2 | SPF |
| 7 - 2 | 2x4 | DRY | No.2 | SPF |
| 7 - 5 | 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 |
|---|---|---|---|---|---|---|
| 2 | TMVW-t | MT20 | 3.0 | 4.0 | 1.50 | 1.25 |
| 3 | TTWW-m | MT20 | 4.0 | 5.0 | 1.75 | 1.25 |
| 4 | TMV+p | MT20 | 2.0 | 4.0 | | |
| 5 | BMVW1-t | MT20 | 3.0 | 4.0 | | |
| 6 | BMWW-t | MT20 | 3.0 | 4.0 | | |
| 7 | BMV1+p | MT20 | 2.0 | 4.0 | | |


**READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS 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 |
|---|---|---|---|---|---|---|---|
| 5 | 273 | 0 | 273 | 0 | 0 | 3-0 | 3-0 |
| 7 | 381 | 0 | 381 | 0 | 0 | 3-0 | 3-0 |

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| 5 | 191 | 134 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 58 / 0 | 0 / 0 |
| 7 | 265 | 199 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 66 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 5, 7

**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) |
|---|---|---|---|---|---|---|---|---|
| 1-2 | 0 / 24 | -77.4 | -77.4 | 0.11 (1) | 10.00 | 6-3 | -4 / 51 | 0.02 (4) |
| 2-3 | -265 / 0 | -77.4 | -77.4 | 0.05 (1) | 6.25 | 3-5 | -256 / 0 | 0.06 (1) |
| 3-4 | 0 / 0 | -77.4 | -77.4 | 0.19 (1) | 10.00 | 2-6 | 0 / 245 | 0.06 (1) |
| 5-4 | -145 / 0 | 0.0 | 0.0 | 0.02 (1) | 7.81 | | | |
| 7-2 | -368 / 0 | 0.0 | 0.0 | 0.04 (1) | 7.81 | | | |
| 7-6 | 0 / 0 | -17.5 | -17.5 | 0.04 (4) | 10.00 | | | |
| 6-5 | 0 / 236 | -17.5 | -17.5 | 0.07 (1) | 10.00 | | | |

**DESIGN CRITERIA**

SPECIFIED LOADS:

| | | | | |
|---|---|---|---|---|
| TOP CH. | LL | = | 23.3 | PSF |
| | DL | = | 3.0 | PSF |
| BOT CH. | LL | = | 0.0 | PSF |
| | DL | = | 7.0 | PSF |
| TOTAL LOAD | | = | 33.3 | PSF |

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

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 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=0.19/1.00 (3-4:1) , BC=0.07/1.00 (5-6:1) , WB=0.06/1.00 (3-5:1) , SSI=0.11/1.00 (3-4:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

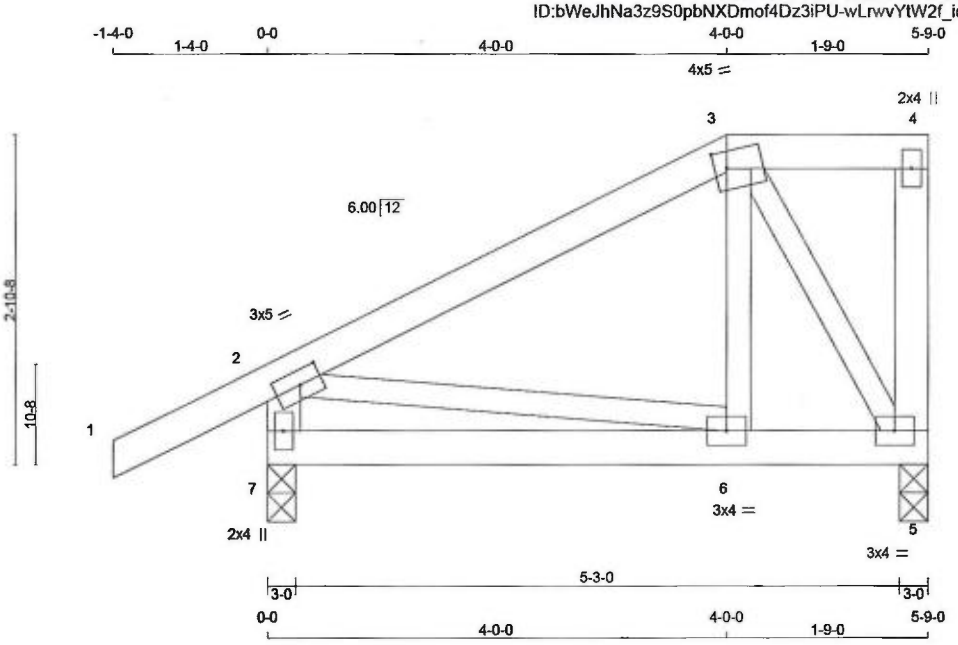
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.62 (2) (INPUT = 0.90 )
JSI METAL= 0.13 (2) (INPUT = 1.00 )

KOTT

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | GREENPARK-MINNISALE HOMES-HEMLOCK 5C EL 2 | DRWG NO. |
|---|---|---|---|---|---|---|
| NE0818-105 | T51 | 1 | 1 | TRUSS DESC. | | **PAGE 45 OF 49** |

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Thu Aug 16 18:08:22 2018 Page 1
ID:bWeJhNa3z9S0pbNXDmof4Dz3iPU-wLrwvYtW2f_idtT_SHON5?HVhjOUcKrDqdl1DnynCmd




Scale = 1:19.2

TOTAL WEIGHT = 26 lb [M]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 1 - 3 | 2x4 | DRY | No.2 | SPF |
| 3 - 4 | 2x4 | DRY | No.2 | SPF |
| 5 - 4 | 2x4 | DRY | No.2 | SPF |
| 7 - 2 | 2x4 | DRY | No.2 | SPF |
| 7 - 5 | 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 |
|---|---|---|---|---|---|---|
| 2 | TMVW-t | MT20 | 3.0 | 5.0 | 1.50 | 2.25 |
| 3 | TTWW-m | MT20 | 4.0 | 5.0 | 1.75 | 1.25 |
| 4 | TMV+p | MT20 | 2.0 | 4.0 | | |
| 5 | BMVW1-t | MT20 | 3.0 | 4.0 | | |
| 6 | BMWW-t | MT20 | 3.0 | 4.0 | | |
| 7 | 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 |
|---|---|---|---|---|---|---|---|
| 5 | 273 | 0 | 273 | 0 | 0 | 3-0 | 3-0 |
| 7 | 381 | 0 | 381 | 0 | 0 | 3-0 | 3-0 |

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| 5 | 191 | 134 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 58 / 0 | 0 / 0 |
| 7 | 265 | 199 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 66 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 5, 7

**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) |
|---|---|---|---|---|---|---|---|---|
| 1- 2 | 0 / 24 | -77.4 | -77.4 | 0.11 (1) | 10.00 | 6- 3 | 0 / 74 | 0.03 (4) |
| 2- 3 | -153 / 0 | -77.4 | -77.4 | 0.21 (1) | 6.25 | 3- 5 | -247 / 0 | 0.05 (1) |
| 3- 4 | 0 / 0 | -77.4 | -77.4 | 0.04 (1) | 10.00 | 2- 6 | 0 / 138 | 0.03 (1) |
| 5- 4 | -68 / 0 | 0.0 | 0.0 | 0.01 (1) | 7.81 | | | |
| 7- 2 | -350 / 0 | 0.0 | 0.0 | 0.04 (1) | 7.81 | | | |
| 7- 6 | 0 / 0 | -17.5 | -17.5 | 0.06 (4) | 10.00 | | | |
| 6- 5 | 0 / 139 | -17.5 | -17.5 | 0.07 (4) | 10.00 | | | |

**DESIGN CRITERIA**

SPECIFIED LOADS:

| | | | | |
|---|---|---|---|---|
| TOP CH. | LL | = | 23.3 | PSF |
| | DL | = | 3.0 | PSF |
| BOT CH. | LL | = | 0.0 | PSF |
| | DL | = | 7.0 | PSF |
| TOTAL LOAD | | = | 33.3 | PSF |

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

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 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=0.21/1.00 (2-3:1) , BC=0.07/1.00 (5-6:4) , WB=0.05/1.00 (3-5:1) , SSI=0.11/1.00 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.32 (2) (INPUT = 0.90 )
JSI METAL= 0.08 (2) (INPUT = 1.00 )

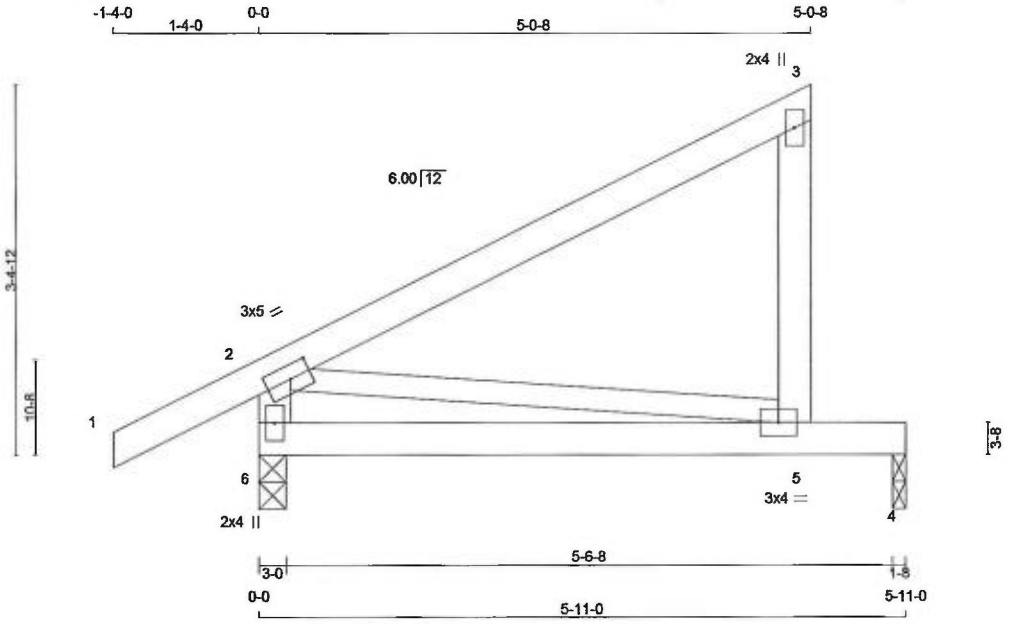
LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
PROVINCE OF ONTARIO
Aug 16, 2018

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS 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. | GREENPARK-MINNISALE HOMES-HEMLOCK 5C EL 2 | DRWG NO. |
|---|---|---|---|---|---|---|
| NE0818-105 | T52 | 11 | 1 | TRUSS DESC. | | **PAGE 46 OF 49** |

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Thu Aug 16 18:08:23 2018 Page 1
ID:bWeJhNa3z9S0pbNXDmof4Dz3iPU-OXPI7uu9pz6YF12A0?vceDpeX7ivLnpM3HValDynCmc




TOTAL WEIGHT = 11 X 22 = 245 lb [M]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 1 - 3 | 2x4 | DRY | No.2 | SPF |
| 5 - 3 | 2x4 | DRY | No.2 | SPF |
| 6 - 2 | 2x4 | DRY | No.2 | SPF |
| 6 - 4 | 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 |
|---|---|---|---|---|---|---|
| 2 | TMVW-t | MT20 | 3.0 | 5.0 | 1.50 | 2.25 |
| 3 | TMV+p | MT20 | 2.0 | 4.0 | | |
| 5 | BMVW-t | MT20 | 3.0 | 4.0 | | |
| 6 | 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 |
|---|---|---|---|---|---|---|---|
| 6 | 384 | 0 | 384 | 0 | 0 | 3-0 | 3-0 |
| 4 | 218 | 0 | 218 | 0 | 0 | 1-8 | 1-8 |

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| 6 | 267 | 200 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 67 / 0 | 0 / 0 |
| 4 | 154 | 100 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 54 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 6, 4

**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 (PLF) FROM | TO | LC1 MAX CSI (LC) | MAX. UNBRAC LENGTH | WEBS MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
|---|---|---|---|---|---|---|---|---|
| 1- 2 | 0 / 24 | -77.4 | -77.4 | 0.11 (1) | 10.00 | 2- 5 | 0 / 0 | 0.00 (1) |
| 2- 3 | 0 / 0 | -77.4 | -77.4 | 0.33 (1) | 10.00 | | | |
| 5- 3 | -195 / 0 | 0.0 | 0.0 | 0.03 (1) | 7.81 | | | |
| 6- 2 | -303 / 0 | 0.0 | 0.0 | 0.03 (1) | 7.81 | | | |
| 6- 5 | 0 / 0 | -17.5 | -17.5 | 0.25 (1) | 10.00 | | | |
| 5- 4 | 0 / 0 | -17.5 | -17.5 | 0.25 (1) | 10.00 | | | |

**DESIGN CRITERIA**

SPECIFIED LOADS:

| | | | | |
|---|---|---|---|---|
| TOP | CH. | LL = | 23.3 | PSF |
| | | DL = | 3.0 | PSF |
| BOT | CH. | LL = | 0.0 | PSF |
| | | DL = | 7.0 | PSF |
| TOTAL | LOAD | = | 33.3 | PSF |

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 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/ 555 (0.13")

CSI: TC=0.33/1.00 (2-3:1) , BC=0.25/1.00 (5-6:1) , WB=0.00/1.00 (2-5:1) , SSI=0.17/1.00 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.28 (2) (INPUT = 0.90 )
JSI METAL= 0.06 (6) (INPUT = 1.00 )

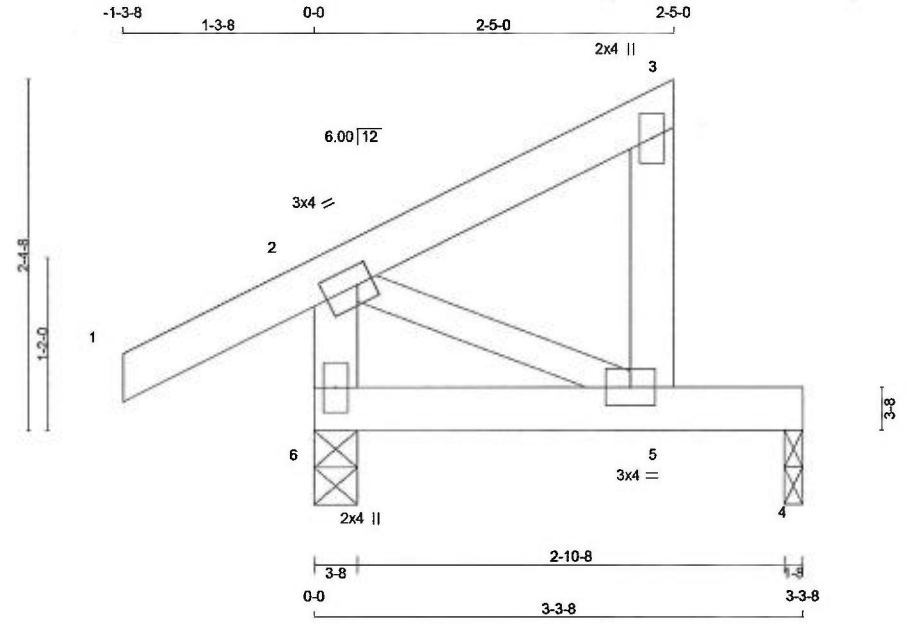
LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
PROVINCE OF ONTARIO
Aug 16, 2018

**READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS 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. | GREENPARK-MINNISALE HOMES-HEMLOCK 5C EL 2 | DRWG NO. |
|---|---|---|---|---|---|---|
| NE0818-105 | T56 | 7 | 1 | TRUSS DESC. | | **PAGE 47 OF 49** |

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Thu Aug 16 18:08:23 2018 Page 1
ID:bWeJhNa3z9S0pbNXDmof4Dz3iPU-OXPI7uu9pz6YF12A0?vceDpiB7kBLnpM3HValDynCmc




Scale = 1:14.9

TOTAL WEIGHT = 7 X 13 = 91 lb [M]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 1 - 3 | 2x4 | DRY | No.2 | SPF |
| 5 - 3 | 2x4 | DRY | No.2 | SPF |
| 6 - 2 | 2x4 | DRY | No.2 | SPF |
| 6 - 4 | 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 |
|---|---|---|---|---|---|---|
| 2 | TMVW-t | MT20 | 3.0 | 4.0 | 1.50 | 1.25 |
| 3 | TMV+p | MT20 | 2.0 | 4.0 | | |
| 5 | BMVW-t | MT20 | 3.0 | 4.0 | | |
| 6 | 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 |
|---|---|---|---|---|---|---|---|
| 6 | 252 | 0 | 252 | 0 | 0 | 3-8 | 3-8 |
| 4 | 97 | 0 | 97 | 0 | 0 | 1-8 | 1-8 |

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| 6 | 175 | 134 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 40 / 0 | 0 / 0 |
| 4 | 70 | 41 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 28 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 6, 4

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

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

**LOADING**
TOTAL LOAD CASES: (5)

| CHORDS MEMB. 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) |
|---|---|---|---|---|---|---|---|---|
| 1- 2 | 0 / 23 | -77.4 | -77.4 | 0.10 (1) | 10.00 | 2- 5 | 0 / 0 | 0.00 (1) |
| 2- 3 | 0 / 0 | -77.4 | -77.4 | 0.08 (1) | 10.00 | | | |
| 5- 3 | -93 / 0 | 0.0 | 0.0 | 0.01 (1) | 7.81 | | | |
| 6- 2 | -198 / 0 | 0.0 | 0.0 | 0.02 (1) | 7.81 | | | |
| 6- 5 | 0 / 0 | -17.5 | -17.5 | 0.11 (1) | 10.00 | | | |
| 5- 4 | 0 / 0 | -17.5 | -17.5 | 0.11 (1) | 10.00 | | | |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

**DESIGN CRITERIA**

SPECIFIED LOADS:

| | | | | |
|---|---|---|---|---|
| TOP CH. | LL | = | 23.3 | PSF |
| | DL | = | 3.0 | PSF |
| BOT CH. | LL | = | 0.0 | PSF |
| | DL | = | 7.0 | PSF |
| TOTAL LOAD | | = | 33.3 | PSF |

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.02")

CSI: TC=0.10/1.00 (1-2:1) , BC=0.11/1.00 (5-6:1) , WB=0.00/1.00 (2-5:1) , SSI=0.08/1.00 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.18 (2) (INPUT = 0.90 )
JSI METAL= 0.04 (6) (INPUT = 1.00 )

LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
PROVINCE OF ONTARIO
Aug 16, 2018

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

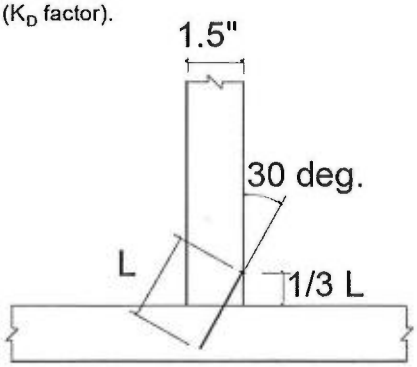
KOTT

## BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY B37579H1

| NAIL TYPE | LENGTH (IN) | DIAMETER (IN) | NAIL LATERAL CAPACITY (LB) | |
|---|---|---|---|---|
| | | | S-P-F | D. FIR |
| COMMON WIRE | 3.00 | 0.144 | 132 | 147 |
| | 3.25 | 0.144 | 132 | 147 |
| | 3.50 | 0.160 | 159 | 177 |

**NOTES:**

1. Rafter and ceiling members may be anchored to top and bottom chords of girder truss by toe-nailing rafter and ceiling members to girder chords provided the reaction does not exceed the lateral capacities in the table. Hangers (specified by others) are required for reactions higher than the maximum toe-nail capacity. Reactions are based on factored loads.
2. Toe nail capacities shown in the table are for **one** toe-nail. For additional toe-nails multiply values in table by the number of toe-nails used. Toe-nail capacities take into account toe-nailing factor $J_A$ in CSA O86-09, section 10.9.4.1.
3. For 9- 3/4 gauge 3.25" common wire gun nails (diameter = 0.120") use 3" common spiral nail values.
4. Maximum number of toe-nails allowed depends on the lumber size & species to be toe-nailed to supporting member and nail diameter, as shown in tables below.
5. Nail values in table are based on the following relative lumber densities: G = 0.42 (SPF), G = 0.49 (D. Fir).
6. Toe-nails shall be driven at approximately 1/3 the nail length from the edge of the joist/truss chord and driven at an angle of 30° to the grain of the member (See next page for nailing on bearing plate).
7. For loads due to **wind** the nail lateral capacity in this table may be multiplied by 1.15 ($K_D$ factor).
8. Lumber must be dry ( < 19% moisture content ) at the time of nail installation.
9. Nail values in this table comply with CSA O86-09, section 10.9.4
10. This design is not valid after April 30, 2019.


TOE-NAIL INSTALLATION

| Nail type | Common wire | Common spiral | Common wire |
|---|---|---|---|
| Nail dia. (in) | 0.160 | 0.152 | 0.144 |
| | ( 3.5" nail ) | | ( 3" and 3.25" nail ) |
| LUMBER SIZE | MAXIMUM NUMBER OF TOE-NAILS | | |
| 2X4 SPF | 2 | 2 | 3 |
| 2X4 D. Fir | 2 | 2 | 2 |
| 2X6 SPF | 4 | 4 | 4 |
| 2X6 D. Fir | 3 | 3 | 3 |

MiTek Canada Inc
100 Industrial Rd.
Bradford, Ontario L3Z 3G7

PEO
Certificate No. 10889485

LICENSED PROFESSIONAL ENGINEER
C. Cordogiannis
90553736
PROVINCE OF ONTARIO

April 26, 2017

## BEARING ANCHORAGE BY TOE-NAILS FOR WIND LOADING B37579H2

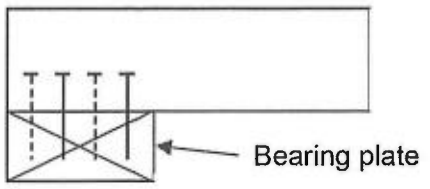
| NAIL TYPE | LENGTH (IN) | DIAMETER (IN) | NAIL WITHDRAWAL CAPACITY (LB) | |
|---|---|---|---|---|
| | | | S-P-F | D. FIR |
| COMMON WIRE | 3.00 | 0.144 | 30 | 42 |
| | 3.25 | 0.144 | 32 | 45 |
| | 3.50 | 0.160 | 38 | 52 |

Note: If using truss with D. Fir lumber and S-P-F bearing plate, use values in table for S-P-F.

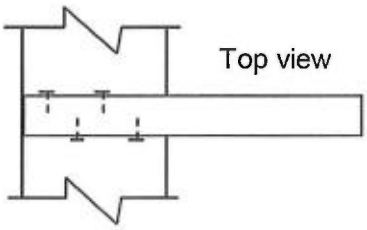
NOTES:

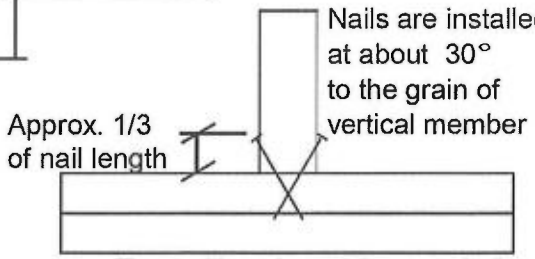
1. Truss chord, rafter, or ceiling members may be anchored to bearing plate by toe-nails, provided that the actual factored uplift force due to **wind or earthquake** load does not exceed the withdrawal capacities in the table. Hangers (specified by others) are required for uplift forces that are higher than the maximum toe-nail withdrawal capacity.
2. Toe nail capacities shown in the table are for **one** toe-nail. For additional toe-nails multiply values in table by the number of toe-nails used. Toe-nail capacities take into account toe-nailing factor $J_A$ in CSA O86-09, section 10.9.5.2.
3. For 9- 3/4 gauge 3.25" common wire gun nails (diameter = 0.120") use 3" common spiral nail values.
4. Maximum number of toe-nails allowed depends on the lumber size & species to be toe-nailed to supporting member and nail diameter, as shown in table above.
5. Nail values in table are based on the following relative lumber densities: G = 0.42(SPF), G = 0.49(D. Fir).
6. Toe-nails shall be driven at approximately 1/3 the nail length from the edge of the joist/truss chord and driven at an angle of 30° to the grain of the member (See drawing on detail B37579H1).
7. Lumber must be dry ( < 19% moisture content ) at the time of nail installation.
8. Nail values in this table comply with CSA O86-09, section 10.9.5
9. This design is not valid after April 30, 2019

Toe-nailing on 2x6 Bearing Plate



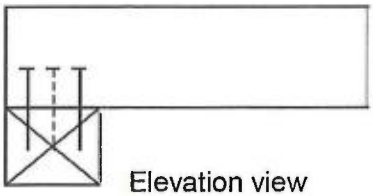

Elevation view



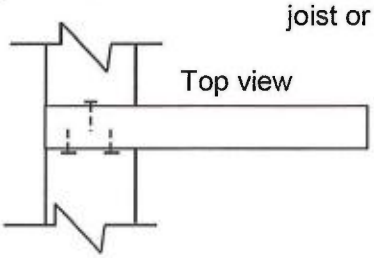




Toe-nailing viewed from end of joist or truss

Toe-nailing on 2x4 Bearing Plate



Elevation view




MiTek Canada Inc
100 Industrial Rd.
Bradford, Ontario L3Z 3G7

PEO
Certificate No. 10889485


April 26, 2017