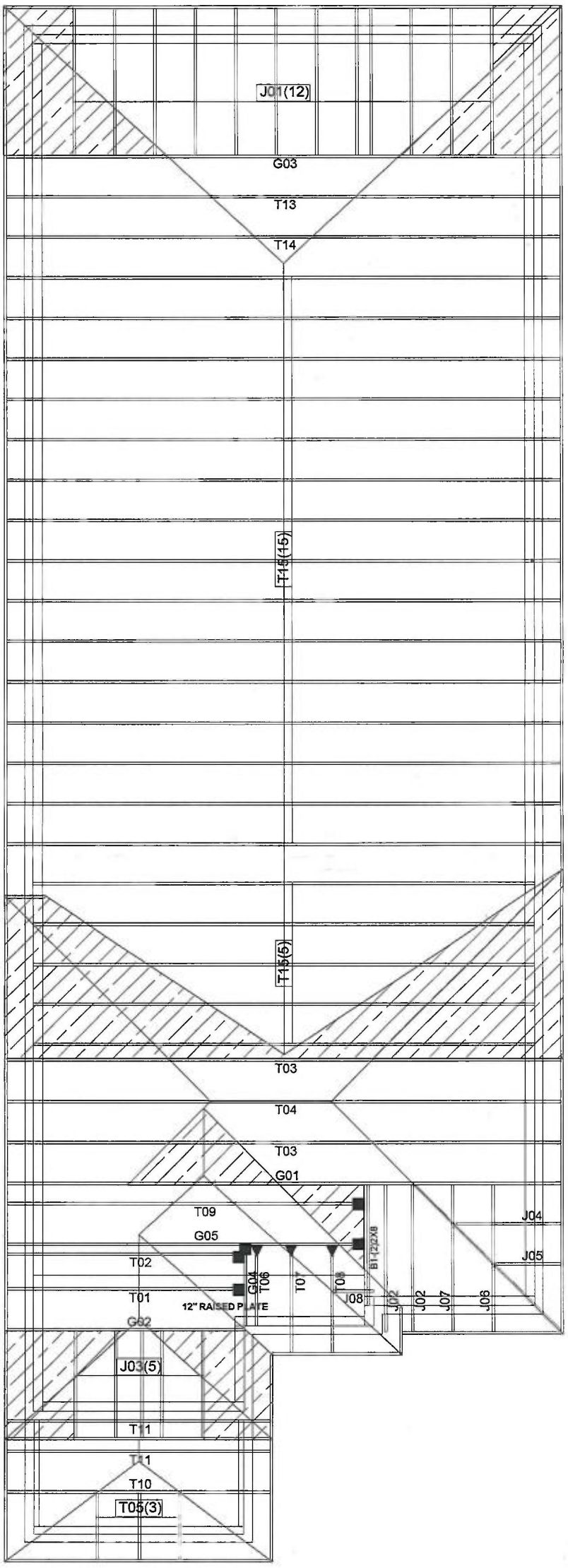
For conventional framing roof/ceilings framing shall conform to OBC.9.23

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






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.

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.

LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
PROVINCE OF ONTARIO
Aug 14, 2018
NE0818-073

Architectural Drawing Info:
Date: JULY 23, 2018
Project number: 18012
Model: GRANDBROOKE 2

KOTT

CONVENTIONAL FRAMING BY OTHERS

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'.

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

HANGER LEGEND:
- ▼ LUS24
- ■ LJS26DS
- ● HGUS26
- ✕ HGUS26-2

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

Model: GRANDBROOKE 2 EL 3
Customer: GREENPARK
Project: MINNISALE HOMES
Location: BRAMPTON
Date: 6/19/2018 Drawn by: BB
LOT 002

18-331261 000 00 RR ROOF

KOTT

ENGINEERING NOTE PAGE (ENP-1)

**PLEASE READ PRIOR TO INSTALLATION**

NE0818-073
GREENPARK-MINNISLAE
HOMES-GRANDBROOKE 2 EL 3 -LOT 002

## *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*

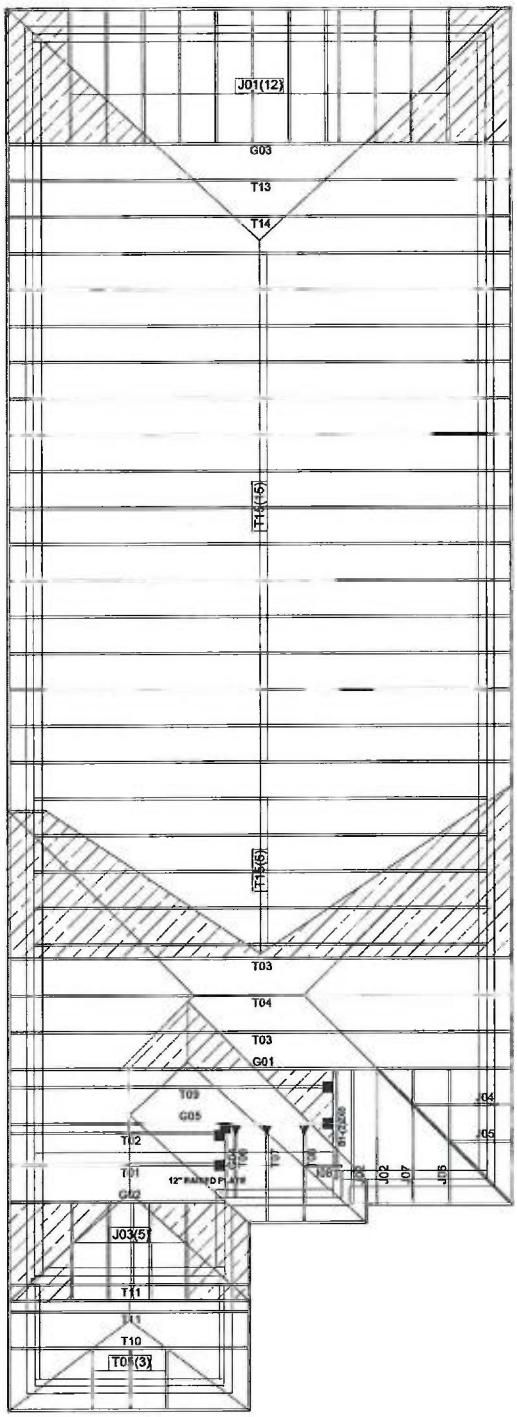
- The trusses must be handled and installed by a qualified professional as per the supplied document titled *Information for Truss Installers* and the BCSI-B1 and BCSI-B3 Summary Sheets
- The compression chords are laterally braced by continuous rigid diaphragm sheathing or as specified on the drawing
- 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.

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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.

LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
APPROVED PROVINCE OF ONTARIO
Aug 14, 2018
NE0818-073

Architectural Drawing Info:
Date: JULY 23, 2018
Project number: 18012
Model: GRANDBROOKE 2

KOTT

CONVENTIONAL FRAMING BY OTHERS

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'.

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

HANGER LEGEND:

- ▼ LUS24
- ■ LJS26DS
- ● HGUS26
- ✕ HGUS26-2

DESIGN CRITERIA
SPECIFIED LOADS:
TOP CH. LL = 22.3 PSF
DL = 3 PSF
BOT CH. LL = 0 PSF
DL = 7 PSF
TOTAL LOAD = 32.3 PSF

SPACING = 24" O/C.

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

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

Model: **GRANDBROOKE 2 EL 3**
Customer: GREENPARK
Project: MINNISALE HOMES
Location: BRAMPTON
Date: 6/19/2018 Drawn by: BB

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | DRWG NO. |
|---|---|---|---|---|---|
| NE0818-073 | G01 | 1 | 1 | GREENPARK-MINNISLAE HOMES-GRANDBROOKE 2 EL 3<br>TRUSS DESC. | **PAGE 3 OF 38** |

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Tue Aug 14 14:09:28 2018 Page 1
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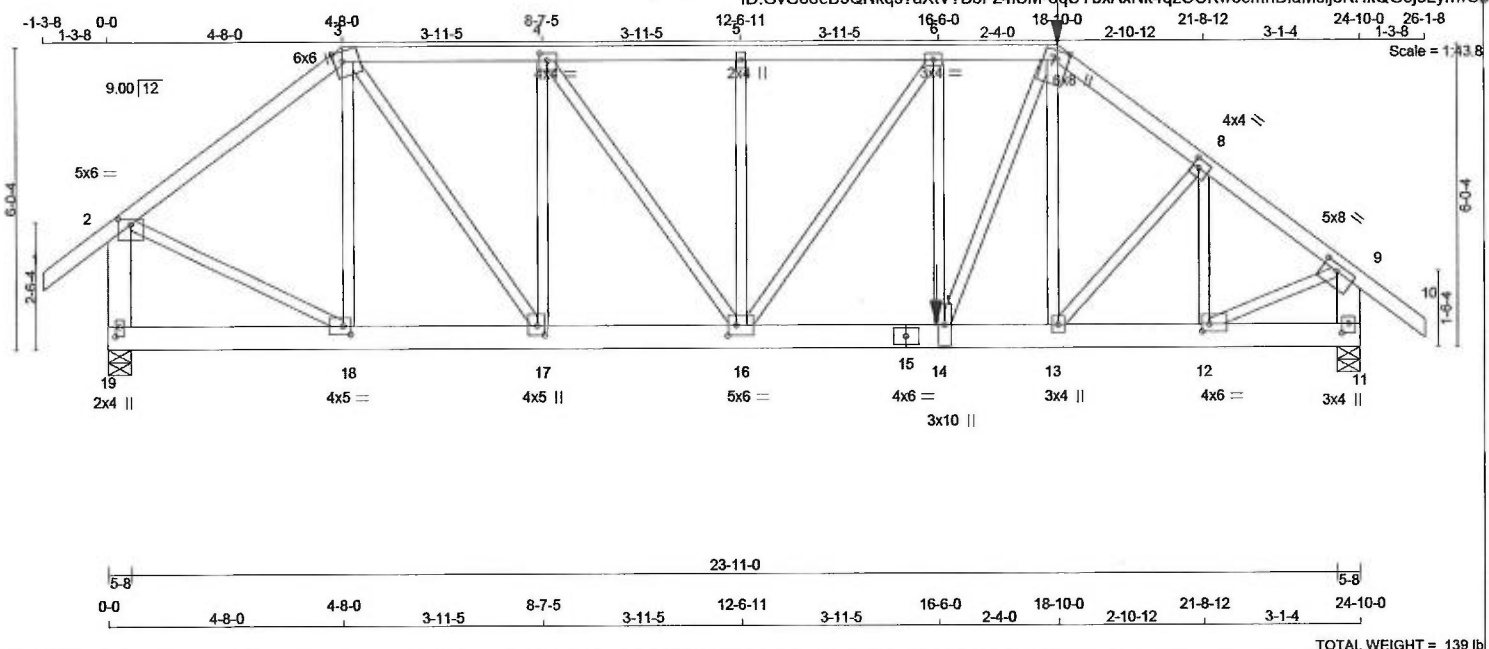


TOTAL WEIGHT = 139 lb [M]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 1 - 3 | 2x4 | DRY | No.2 | SPF |
| 3 - 7 | 2x4 | DRY | No.2 | SPF |
| 7 - 10 | 2x4 | DRY | No.2 | SPF |
| 19 - 2 | 2x6 | DRY | No.2 | SPF |
| 11 - 9 | 2x6 | DRY | No.2 | SPF |
| 19 - 15 | 2x6 | DRY | No.2 | SPF |
| 15 - 11 | 2x6 | DRY | No.2 | SPF |
| ALL WEBS EXCEPT | 2x3 | DRY | No.2 | SPF |

DRY: SEASONED LUMBER.

**PLATES (table is in Inches)**

| JT | TYPE | PLATES | W | LEN | Y | X |
|---|---|---|---|---|---|---|
| 2 | TMVW-p | MT20 | 5.0 | 6.0 | 1.25 | 3.00 |
| 3 | TTWW+m | MT20 | 6.0 | 6.0 | Edge | 2.00 |
| 4 | TMWW-t | MT20 | 4.0 | 4.0 | 1.75 | 1.75 |
| 5 | TMW+w | MT20 | 2.0 | 4.0 | | |
| 6 | TMWW-t | MT20 | 3.0 | 4.0 | | |
| 7 | TTWW+m | MT20 | 6.0 | 8.0 | Edge | 2.75 |
| 8 | TMWW-t | MT20 | 4.0 | 4.0 | 2.00 | 1.50 |
| 9 | TMVW-t | MT20 | 5.0 | 8.0 | 1.50 | 3.50 |
| 11 | BMV1+p | MT20 | 3.0 | 4.0 | 2.25 | 1.50 |
| 12 | BMWW-t | MT20 | 4.0 | 6.0 | 1.75 | 1.75 |
| 13 | BMWW+t | MT20 | 3.0 | 4.0 | | |
| 14 | BMWW+t | MT20 | 3.0 | 10.0 | | |
| 15 | BS-t | MT20 | 4.0 | 6.0 | | |
| 16 | BMWWW-t | MT20 | 5.0 | 6.0 | 2.50 | 2.00 |
| 17 | BMWW+t | MT20 | 4.0 | 5.0 | 2.25 | 1.75 |
| 18 | BMWW-t | MT20 | 4.0 | 5.0 | 2.00 | 1.75 |
| 19 | BMV1+p | MT20 | 2.0 | 4.0 | 2.25 | 1.00 |

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

**HANGERS NOTES**
1)


**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 |
|---|---|---|---|---|---|---|---|
| 19 | 2009 | 0 | 2009 | 0 | 0 | 5-8 | 5-8 |
| 11 | 2903 | 0 | 2903 | 0 | 0 | 5-8 | 5-8 |

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| | | MAX./MIN. COMPONENT REACTIONS | | | | | |
| 19 | 1407 | 1002 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 405 / 0 | 0 / 0 |
| 11 | 2037 | 1426 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 611 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 19, 11

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

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

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

| CHORDS 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 / 32 | -77.4 | -77.4 | 0.12 (1) | 10.00 | 18- 3 | -524 / 0 | 0.28 (1) |
| 2- 3 | -1770 / 0 | -77.4 | -77.4 | 0.42 (1) | 4.55 | 3-17 | 0 / 1557 | 0.39 (1) |
| 3- 4 | -2297 / 0 | -77.4 | -77.4 | 0.26 (1) | 4.25 | 17- 4 | -1221 / 0 | 0.66 (1) |
| 4- 5 | -2919 / 0 | -77.4 | -77.4 | 0.31 (1) | 3.78 | 4-16 | 0 / 1086 | 0.27 (1) |
| 5- 6 | -2919 / 0 | -77.4 | -77.4 | 0.26 (1) | 3.83 | 16- 5 | -302 / 0 | 0.16 (1) |
| 6- 7 | -3259 / 0 | -145.9 | -145.9 | 0.24 (1) | 3.64 | 16- 6 | -593 / 0 | 0.51 (1) |
| 7- 8 | -3337 / 0 | -77.4 | -77.4 | 0.26 (1) | 3.61 | 14- 6 | 0 / 162 | 0.04 (4) |
| 8- 9 | -2948 / 0 | -77.4 | -77.4 | 0.23 (1) | 3.85 | 14- 7 | 0 / 1591 | 0.39 (1) |
| 9-10 | 0 / 32 | -77.4 | -77.4 | 0.12 (1) | 10.00 | 13- 7 | -68 / 68 | 0.04 (1) |
| 19- 2 | -1978 / 0 | 0.0 | 0.0 | 0.18 (1) | 7.13 | 13- 8 | 0 / 430 | 0.11 (1) |
| 11- 9 | -2828 / 0 | 0.0 | 0.0 | 0.21 (1) | 6.18 | 12- 8 | -828 / 0 | 0.19 (1) |
| | | | | | | 2-18 | 0 / 1545 | 0.38 (1) |
| 19-18 | 0 / 0 | -17.5 | -17.5 | 0.05 (4) | 10.00 | 12- 9 | 0 / 2515 | 0.62 (1) |
| 18-17 | 0 / 1404 | -17.5 | -17.5 | 0.22 (1) | 10.00 | | | |
| 17-16 | 0 / 2297 | -17.5 | -17.5 | 0.33 (1) | 10.00 | | | |
| 16-15 | 0 / 3259 | -17.5 | -17.5 | 0.53 (1) | 10.00 | | | |
| 15-14 | 0 / 3259 | -17.5 | -17.5 | 0.53 (1) | 10.00 | | | |
| 14-13 | 0 / 2650 | -33.0 | -33.0 | 0.45 (1) | 10.00 | | | |
| 13-12 | 0 / 2368 | -33.0 | -33.0 | 0.38 (1) | 10.00 | | | |
| 12-11 | 0 / 0 | -33.0 | -33.0 | 0.06 (1) | 10.00 | | | |

FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC. | LC1 | MAX- | MAX+ | FACE | DIR. | TYPE |
|---|---|---|---|---|---|---|---|
| 7 | 18-10-0 | -348 | -348 | — | FRONT | VERT | TOTAL |
| 14 | 16-5-4 | -1706 | -1706 | — | 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 = 4-8-0
RIGHT SETBACK = 6-0-0
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 8-4-0 OF SPAN MEASURED FROM THE RIGHT.

*** 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 (0.83")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.10")
ALLOWABLE DEFL.(TL)= L/360 (0.83")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.17")

CSI: TC=0.42/1.00 (2-3:1) , BC=0.53/1.00 (14-16:1) , WB=0.66/1.00 (4-17:1) , SSI=0.17/1.00 (6-7:1)

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

**HANGERS NOTES**

1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 348.1 lbs FACTORED DOWN AT 18-10-0 ON TOP CHORD, AND 1705.6 lbs FACTORED DOWN AT 16-5-4 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= 0.90 (17) (INPUT = 0.90 )
JSI METAL= 0.78 (15) (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. |
|---|---|---|---|---|---|
| NE0818-073 | G02 | 1 | 1 | GREENPARK-MINNISLAE HOMES-GRANDBROOKE 2 EL 3 TRUSS DESC. | **PAGE 5 OF 38** |

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Tue Aug 14 14:09:29 2018 Page 1
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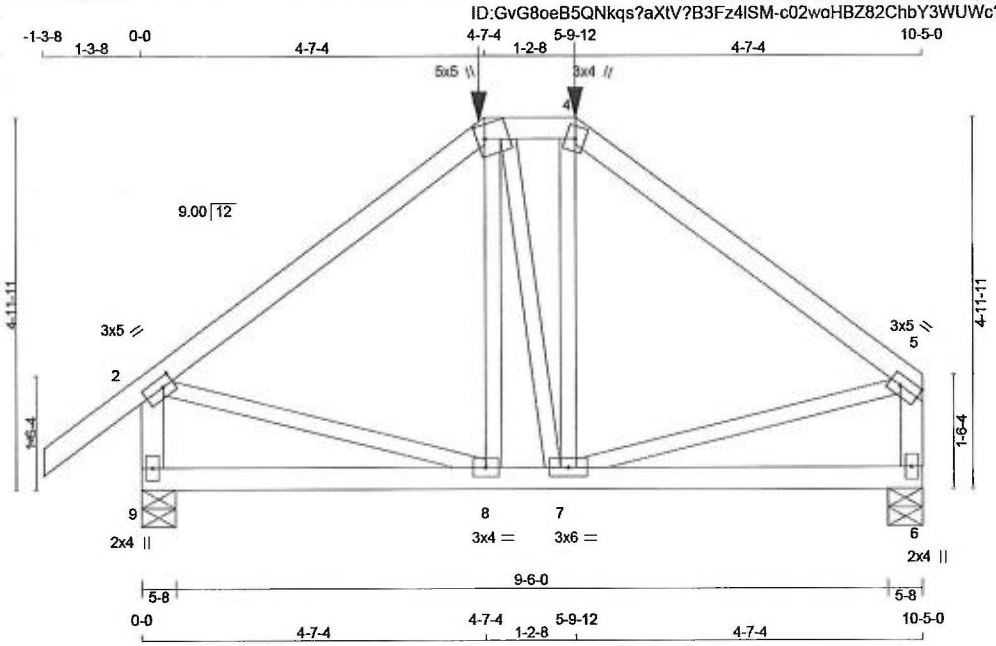


TOTAL WEIGHT = 49 lb [M]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 1 - 3 | 2x4 | DRY | No.2 | SPF |
| 3 - 4 | 2x4 | DRY | No.2 | SPF |
| 4 - 5 | 2x4 | DRY | No.2 | SPF |
| 9 - 2 | 2x4 | DRY | No.2 | SPF |
| 6 - 5 | 2x4 | DRY | No.2 | SPF |
| 9 - 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 | 1.75 |
| 3 | TTWW+m | MT20 | 5.0 | 5.0 | 2.25 | 1.25 |
| 4 | TTW+m | MT20 | 3.0 | 4.0 | | |
| 5 | TMVW-t | MT20 | 3.0 | 5.0 | 1.50 | Edge |
| 6 | BMV1+p | MT20 | 2.0 | 4.0 | | |
| 7 | BMWWW-t | MT20 | 3.0 | 6.0 | | |
| 8 | BMWW-t | MT20 | 3.0 | 4.0 | | |
| 9 | BMV1+p | MT20 | 2.0 | 4.0 | | |

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

**HANGERS NOTES**
1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 148.4 lbs FACTORED DOWN AT 5-9-12, AND 148.4 lbs FACTORED DOWN AT 4-7-4 ON TOP CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.


**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 | 802 | 0 | 802 | 0 | 0 | 5-8 | 5-8 |
| 6 | 696 | 0 | 696 | 0 | 0 | 5-8 | 5-8 |

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| 9 | 560 | 407 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 153 / 0 | 0 / 0 |
| 6 | 488 | 343 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 145 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 9, 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 / 32 | -77.4 | -77.4 | 0.12 (1) | 10.00 | 8- 3 | -38 / 53 | 0.02 (4) |
| 2- 3 | -585 / 0 | -77.4 | -77.4 | 0.32 (1) | 6.25 | 3- 7 | -2 / 3 | 0.00 (4) |
| 3- 4 | -466 / 0 | -107.2 | -107.2 | 0.03 (1) | 6.25 | 7- 4 | -40 / 56 | 0.02 (4) |
| 4- 5 | -584 / 0 | -77.4 | -77.4 | 0.32 (1) | 6.25 | 2- 8 | 0 / 482 | 0.12 (1) |
| 9- 2 | -755 / 0 | 0.0 | 0.0 | 0.09 (1) | 7.81 | 7- 5 | 0 / 481 | 0.12 (1) |
| 6- 5 | -648 / 0 | 0.0 | 0.0 | 0.07 (1) | 7.81 | | | |
| 9- 8 | 0 / 0 | -24.2 | -24.2 | 0.13 (4) | 10.00 | | | |
| 8- 7 | 0 / 466 | -24.2 | -24.2 | 0.17 (4) | 10.00 | | | |
| 7- 6 | 0 / 0 | -24.2 | -24.2 | 0.13 (4) | 10.00 | | | |

FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC. | LC1 | MAX- | MAX+ | FACE | DIR. | TYPE |
|---|---|---|---|---|---|---|---|
| 3 | 4-7-4 | -148 | -148 | --- | FRONT | VERT | TOTAL |
| 4 | 5-9-12 | -148 | -148 | --- | 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
SIDE SETBACK = 4-7-4
END SETBACK = 4-0-0
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 (0.35")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.35")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.02")

CSI: TC=0.32/1.00 (2-3:1) , BC=0.17/1.00 (7-8:4) , WB=0.12/1.00 (2-8:1) , SSI=0.12/1.00 (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

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

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | GREENPARK-MINNISLAE HOMES-GRANDBROOKE 2 EL 3 | DRWG NO. |
|---|---|---|---|---|---|---|
| NE0818-073 | G02 | 1 | 1 | TRUSS DESC. | | **PAGE 6 OF 38** |



PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.85 (7) (INPUT = 0.90 )
JSI METAL= 0.23 (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. |
|---|---|---|---|---|---|
| NE0818-073 | G03 | 1 | 1 | GREENPARK-MINNISLAE HOMES-GRANDBROOKE 2 EL 3 | **PAGE 7 OF 38** |
| | | | | TRUSS DESC. | |

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Tue Aug 14 14:09:29 2018 Page 1
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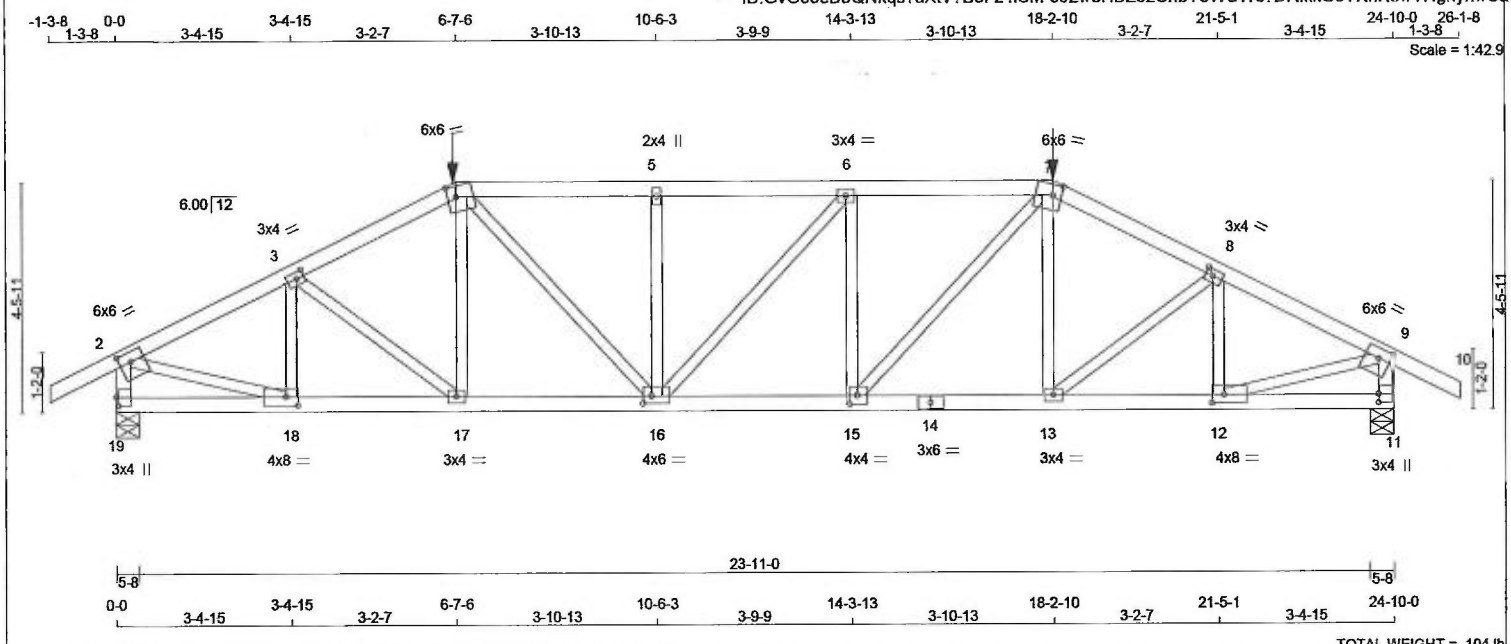


TOTAL WEIGHT = 104 lb [M]

**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 - 10 | 2x4 | DRY | No.2 | SPF |
| 19 - 2 | 2x4 | DRY | No.2 | SPF |
| 11 - 9 | 2x4 | DRY | No.2 | SPF |
| 19 - 14 | 2x4 | DRY | No.2 | SPF |
| 14 - 11 | 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 | 6.0 | 6.0 | 2.25 | 2.75 |
| 3 | TMWW-t | MT20 | 3.0 | 4.0 | 1.50 | 1.75 |
| 4 | TTWW-m | MT20 | 6.0 | 6.0 | 2.50 | 2.00 |
| 5 | TMW+w | MT20 | 2.0 | 4.0 | | |
| 6 | TMWW-t | MT20 | 3.0 | 4.0 | | |
| 7 | TTWW-m | MT20 | 6.0 | 6.0 | 2.50 | 2.00 |
| 8 | TMWW-t | MT20 | 3.0 | 4.0 | 1.50 | 1.75 |
| 9 | TMVW-t | MT20 | 6.0 | 6.0 | 2.25 | 2.75 |
| 11 | BMV1+p | MT20 | 3.0 | 4.0 | 2.00 | |
| 12 | BMWW-t | MT20 | 4.0 | 8.0 | 2.00 | 2.75 |
| 13 | BMWW-t | MT20 | 3.0 | 4.0 | | |
| 14 | BS-t | MT20 | 3.0 | 6.0 | | |
| 15 | BMWW-t | MT20 | 4.0 | 4.0 | 2.00 | 1.75 |
| 16 | BMWWW-t | MT20 | 4.0 | 6.0 | 1.75 | 2.00 |
| 17 | BMWW-t | MT20 | 3.0 | 4.0 | | |
| 18 | BMWW-t | MT20 | 4.0 | 8.0 | 2.00 | 2.75 |
| 19 | BMV1+p | MT20 | 3.0 | 4.0 | 2.00 | 0.50 |

**HANGERS NOTES**
1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 383.8 lbs FACTORED DOWN AT 18-2-10, AND 383.8 lbs FACTORED DOWN AT 6-7-6 ON TOP CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.


**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 |
|---|---|---|---|---|---|---|---|
| 19 | 2256 | 0 | 2256 | 0 | 0 | 5-8 | 5-8 |
| 11 | 2256 | 0 | 2256 | 0 | 0 | 5-8 | 5-8 |

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| 19 | 1583 | 1112 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 471 / 0 | 0 / 0 |
| 11 | 1583 | 1112 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 471 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 19, 11

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

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

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

| CHORDS 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 / 23 | -77.4 | -77.4 | 0.11 (1) | 10.00 | | 18-3 | -565 / 0 | 0.11 (1) |
| 2-3 | -2941 / 0 | -77.4 | -77.4 | 0.25 (1) | 3.83 | | 3-17 | 0 / 258 | 0.06 (1) |
| 3-4 | -3191 / 0 | -77.4 | -77.4 | 0.25 (1) | 3.69 | | 17-4 | -23 / 113 | 0.04 (4) |
| 4-5 | -3518 / 0 | -145.9 | -145.9 | 0.49 (1) | 3.24 | | 4-16 | 0 / 989 | 0.24 (1) |
| 5-6 | -3518 / 0 | -145.9 | -145.9 | 0.50 (1) | 3.22 | | 16-5 | -601 / 0 | 0.19 (1) |
| 6-7 | -3521 / 0 | -145.9 | -145.9 | 0.50 (1) | 3.22 | | 16-6 | -5 / 0 | 0.00 (1) |
| 7-8 | -3191 / 0 | -77.4 | -77.4 | 0.25 (1) | 3.69 | | 15-6 | -603 / 0 | 0.19 (1) |
| 8-9 | -2941 / 0 | -77.4 | -77.4 | 0.25 (1) | 3.83 | | 15-7 | 0 / 995 | 0.25 (1) |
| 9-10 | 0 / 23 | -77.4 | -77.4 | 0.11 (1) | 10.00 | | 13-7 | -26 / 113 | 0.04 (4) |
| 19-2 | -2200 / 0 | 0.0 | 0.0 | 0.24 (1) | 5.68 | | 13-8 | 0 / 257 | 0.06 (1) |
| 11-9 | -2200 / 0 | 0.0 | 0.0 | 0.24 (1) | 5.68 | | 12-8 | -564 / 0 | 0.11 (1) |
| | | | | | | | 2-18 | 0 / 2721 | 0.67 (1) |
| 19-18 | 0 / 0 | -33.0 | -33.0 | 0.09 (4) | 10.00 | | 12-9 | 0 / 2721 | 0.67 (1) |
| 18-17 | 0 / 2638 | -33.0 | -33.0 | 0.52 (1) | 10.00 | | | | |
| 17-16 | 0 / 2842 | -33.0 | -33.0 | 0.56 (1) | 10.00 | | | | |
| 16-15 | 0 / 3521 | -33.0 | -33.0 | 0.68 (1) | 10.00 | | | | |
| 15-14 | 0 / 2841 | -33.0 | -33.0 | 0.56 (1) | 10.00 | | | | |
| 14-13 | 0 / 2841 | -33.0 | -33.0 | 0.56 (1) | 10.00 | | | | |
| 13-12 | 0 / 2639 | -33.0 | -33.0 | 0.52 (1) | 10.00 | | | | |
| 12-11 | 0 / 0 | -33.0 | -33.0 | 0.09 (4) | 10.00 | | | | |

FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC. | LC1 | MAX- | MAX+ | FACE | DIR. | TYPE |
|---|---|---|---|---|---|---|---|
| 4 | 6-7-6 | -384 | -384 | --- | FRONT | VERT | TOTAL |
| 7 | 18-2-10 | -384 | -384 | --- | 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
SIDE SETBACK = 6-7-6
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 (0.14")
ALLOWABLE DEFL.(TL)= L/360 (0.83")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.25")

CSI: TC=0.50/1.00 (6-7:1) , BC=0.68/1.00 (15-16:1) , WB=0.67/1.00 (9-12:1) , SSI=0.29/1.00 (6-7:1)

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (9) (INPUT = 0.90 )
JSI METAL= 0.77 (14) (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. |
|---|---|---|---|---|---|
| NE0818-073 | G04 | 1 | 1 | GREENPARK-MINNISLAE HOMES-GRANDBROOKE 2 EL 3 TRUSS DESC. | **PAGE 9 OF 38** |

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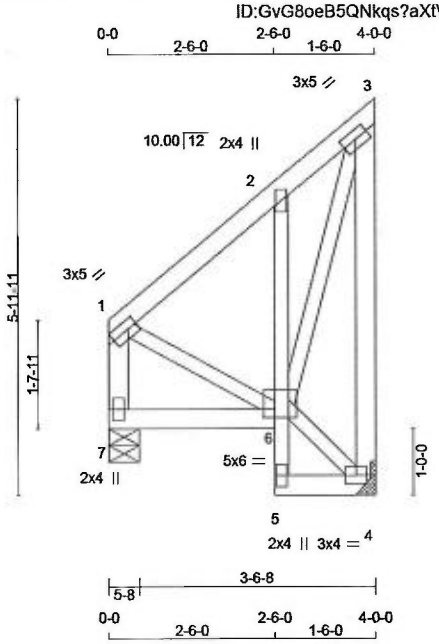


Scale = 1:33.1

TOTAL WEIGHT = 28 lb

[M]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 7 - 1 | 2x4 | DRY | No.2 | SPF |
| 1 - 3 | 2x4 | DRY | No.2 | SPF |
| 4 - 3 | 2x4 | DRY | No.2 | SPF |
| 7 - 6 | 2x4 | DRY | No.2 | SPF |
| 5 - 2 | 2x3 | DRY | No.2 | SPF |
| 5 - 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 |
|---|---|---|---|---|---|---|
| 1 | TMVW-t | MT20 | 3.0 | 5.0 | 1.50 | 1.75 |
| 2 | TMV+p | MT20 | 2.0 | 4.0 | | |
| 3 | TMVW-t | MT20 | 3.0 | 5.0 | | |
| 4 | BMVW1-t | MT20 | 3.0 | 4.0 | | |
| 5 | BMV+p | MT20 | 2.0 | 4.0 | | |
| 6 | BVMWWW-I | MT20 | 5.0 | 6.0 | 1.50 | 2.00 |
| 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 | REQRD BRG |
|---|---|---|---|---|---|---|---|
| 7 | 567 | 0 | 567 | 0 | 0 | IN-SX 5-8 | IN-SX 5-8 |
| 4 | 567 | 0 | 567 | 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 |
|---|---|---|---|---|---|---|---|
| 7 | 398 | 278 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 120 / 0 | 0 / 0 |
| 4 | 398 | 278 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 120 / 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 = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

| CHORDS 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) |
|---|---|---|---|---|---|---|---|---|
| 7- 1 | -299 / 0 | 0.0 | 0.0 | 0.03 (1) | 7.81 | 1- 6 | 0 / 178 | 0.04 (1) |
| 1- 2 | -200 / 0 | -77.4 | -77.4 | 0.07 (1) | 6.25 | 6- 4 | -12 / 0 | 0.00 (1) |
| 2- 3 | -208 / 0 | -77.4 | -77.4 | 0.04 (1) | 6.25 | 6- 3 | 0 / 525 | 0.13 (1) |
| 4- 3 | -416 / 0 | 0.0 | 0.0 | 0.28 (1) | 7.81 | | | |
| 7- 6 | 0 / 0 | -206.2 | -206.2 | 0.26 (1) | 10.00 | | | |
| 5- 6 | 0 / 144 | 0.0 | 0.0 | 0.06 (1) | 10.00 | | | |
| 6- 2 | -177 / 0 | 0.0 | 0.0 | 0.03 (1) | 7.81 | | | |
| 5- 4 | 0 / 10 | -206.2 | -206.2 | 0.08 (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 = 10-5-0
END DISTANCE = 4-0-0
END SPAN CARRIED = 10-5-0
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 (0.19")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.03")

CSI: TC=0.28/1.00 (3-4:1) , BC=0.26/1.00 (6-7:1) , WB=0.13/1.00 (3-6:1) , SSI=0.23/1.00 (6-7:1)

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 14, 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-MINNISLAE HOMES-GRANDBROOKE 2 EL 3 | DRWG NO. |
|---|---|---|---|---|---|---|
| NE0818-073 | G04 | 1 | 1 | TRUSS DESC. | | **PAGE 10 OF 38** |



JSI GRIP= 0.84 (3) (INPUT = 0.90 )
JSI METAL= 0.13 (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-MINNISLAE HOMES-GRANDBROOKE 2 EL 3 | DRWG NO. |
|---|---|---|---|---|---|---|
| NE0818-073 | G05 | 1 | 1 | TRUSS DESC. | | **PAGE 11 OF 38** |

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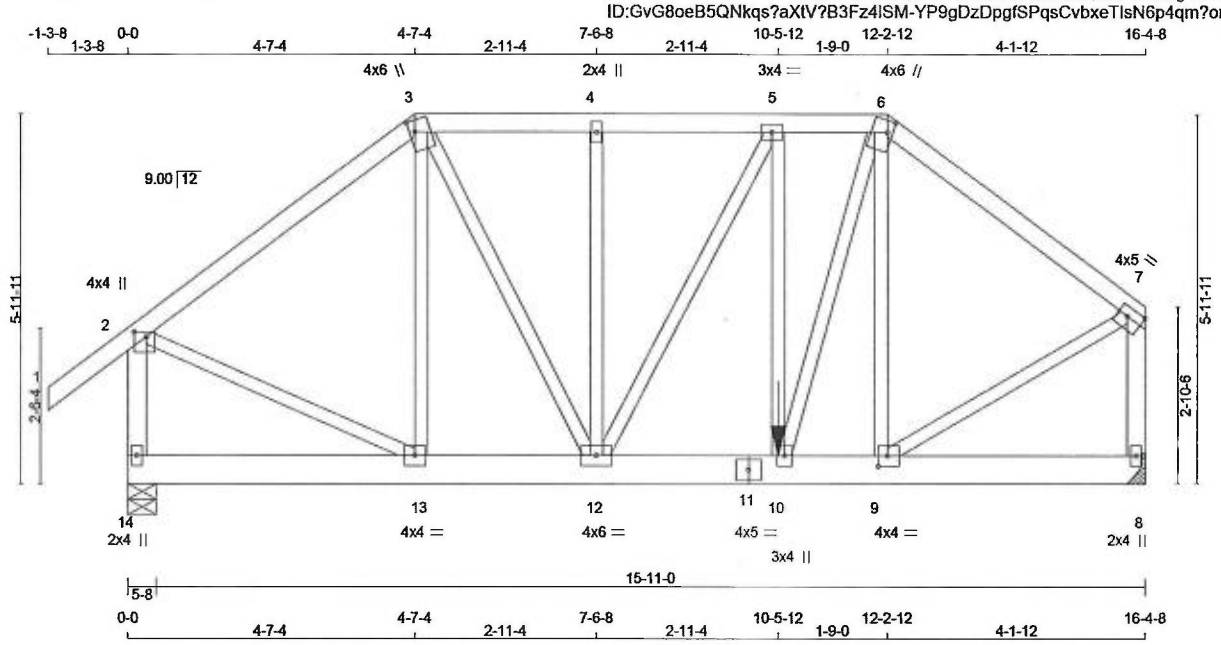


TOTAL WEIGHT = 96 lb [M]

**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 - 7 | 2x4 | DRY | No.2 | SPF |
| 14 - 2 | 2x4 | DRY | No.2 | SPF |
| 8 - 7 | 2x4 | DRY | No.2 | SPF |
| 14 - 11 | 2x6 | DRY | No.2 | SPF |
| 11 - 8 | 2x6 | DRY | No.2 | SPF |
| ALL WEBS EXCEPT | 2x3 | DRY | No.2 | SPF |

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE | PLATES | W | LEN | Y | X |
|---|---|---|---|---|---|---|
| 2 | TMVW+p | MT20 | 4.0 | 4.0 | 1.00 | 2.25 |
| 3 | TTWW+m | MT20 | 4.0 | 6.0 | 2.25 | 1.00 |
| 4 | TMW+w | MT20 | 2.0 | 4.0 | | |
| 5 | TMWW-t | MT20 | 3.0 | 4.0 | | |
| 6 | TTWW+m | MT20 | 4.0 | 6.0 | 2.25 | 1.00 |
| 7 | TMVW-t | MT20 | 4.0 | 5.0 | 1.75 | Edge |
| 8 | BMV1+p | MT20 | 2.0 | 4.0 | | |
| 9 | BMWW-t | MT20 | 4.0 | 4.0 | 2.00 | 1.75 |
| 10 | BMWW+t | MT20 | 3.0 | 4.0 | | |
| 11 | BS-t | MT20 | 4.0 | 5.0 | | |
| 12 | BMWWW-t | MT20 | 4.0 | 6.0 | | |
| 13 | BMWW-t | MT20 | 4.0 | 4.0 | | |
| 14 | BMV1+p | MT20 | 2.0 | 4.0 | | |

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

**HANGERS NOTES**
1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 567.1 lbs FACTORED DOWN AT 10-5-12 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.


**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 |
|---|---|---|---|---|---|---|---|
| 14 | 1126 | 0 | 1126 | 0 | 0 | 5-8 | 5-8 |
| 8 | 1316 | 0 | 1316 | 0 | 0 | MECHANICAL | |

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 8 TO RESIST THE MAX FACTORED REACTIONS.

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| 14 | 788 | 565 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 223 / 0 | 0 / 0 |
| 8 | 924 | 646 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 278 / 0 | 0 / 0 |

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

**BRACING**
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.85 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 / 32 | -77.4 | -77.4 | 0.12 (1) | 10.00 |
| 2-3 | -842 / 0 | -77.4 | -77.4 | 0.34 (1) | 6.15 |
| 3-4 | -901 / 0 | -77.4 | -77.4 | 0.11 (1) | 6.25 |
| 4-5 | -901 / 0 | -77.4 | -77.4 | 0.11 (1) | 6.25 |
| 5-6 | -968 / 0 | -77.4 | -77.4 | 0.05 (1) | 6.25 |
| 6-7 | -1004 / 0 | -77.4 | -77.4 | 0.28 (1) | 5.85 |
| 14-2 | -1093 / 0 | 0.0 | 0.0 | 0.15 (1) | 7.53 |
| 8-7 | -1228 / 0 | 0.0 | 0.0 | 0.19 (1) | 7.20 |
| 14-13 | 0 / 0 | -17.5 | -17.5 | 0.04 (4) | 10.00 |
| 13-12 | 0 / 668 | -17.5 | -17.5 | 0.11 (1) | 10.00 |
| 12-11 | 0 / 968 | -17.5 | -17.5 | 0.19 (1) | 10.00 |
| 11-10 | 0 / 968 | -17.5 | -17.5 | 0.19 (1) | 10.00 |
| 10-9 | 0 / 799 | -54.1 | -54.1 | 0.19 (1) | 10.00 |
| 9-8 | 0 / 0 | -54.1 | -54.1 | 0.08 (1) | 10.00 |

| WEBS MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
|---|---|---|
| 13-3 | -211 / 0 | 0.11 (1) |
| 3-12 | 0 / 500 | 0.12 (1) |
| 12-4 | -256 / 0 | 0.14 (1) |
| 12-5 | -145 / 0 | 0.10 (1) |
| 10-5 | -46 / 23 | 0.02 (1) |
| 10-6 | 0 / 567 | 0.14 (1) |
| 9-6 | -159 / 5 | 0.08 (1) |
| 2-13 | 0 / 737 | 0.18 (1) |
| 9-7 | 0 / 926 | 0.23 (1) |

FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC. | LC1 | MAX- | MAX+ | FACE | DIR. | TYPE |
|---|---|---|---|---|---|---|---|
| 10 | 10-5-12 | -567 | -567 | — | 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: CStdGirder
START DISTANCE = 10-5-12
START SPAN CARRIED = 4-0-0
END DISTANCE = 16-4-8
END SPAN CARRIED = 4-0-0
END WALL WIDTH = 5-8
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 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.55")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.04")

CSI: TC=0.34/1.00 (2-3:1) , BC=0.19/1.00 (9-10:1) , WB=0.23/1.00 (7-9:1) , SSI=0.12/1.00 (2-3:1)

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

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= 0.87 (2) (INPUT = 0.90 )
JSI METAL= 0.33 (7) (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-MINNISLAE HOMES-GRANDBROOKE 2 EL 3 | DRWG NO. |
|---|---|---|---|---|---|---|
| NE0818-073 | J01 | 12 | 1 | TRUSS DESC. | | **PAGE 13 OF 38** |

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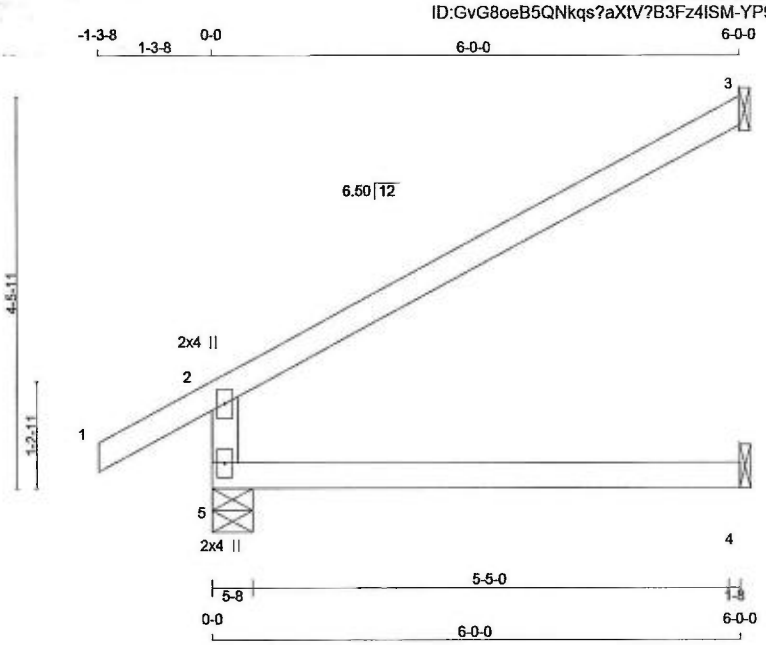


TOTAL WEIGHT = 12 X 17 = 208 lb [M]

**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 | 43 | 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 | 80 / 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, 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 MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) | MAX UNBRAC LENGTH |
|---|---|---|---|---|---|---|---|---|
| 5- 2 | -395 / 0 | 0.0 | 0.0 | 0.13 (4) | | | | 7.81 |
| 1- 2 | 0 / 25 | -77.4 | -77.4 | 0.10 (1) | | | | 10.00 |
| 2- 3 | -28 / 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= 0.23 (2) (INPUT = 0.90 )
JSI METAL= 0.09 (2) (INPUT = 1.00 )

LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
PROVINCE OF ONTARIO
Aug 14, 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. |
|---|---|---|---|---|---|
| NE0818-073 | J02 | 2 | 1 | GREENPARK-MINNISLAE HOMES-GRANDBROOKE 2 EL 3<br>TRUSS DESC. | **PAGE 14 OF 38** |

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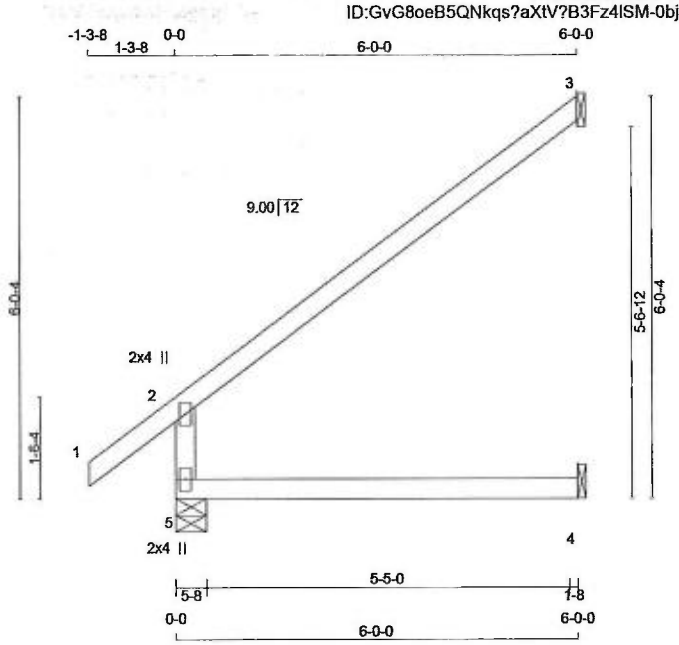


TOTAL WEIGHT = 2 X 19 = 37 lb [M]

**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 | 50 | 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 | 239 / 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) | WEBS MAX. UNBRAC LENGTH | MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
|---|---|---|---|---|---|---|---|---|
| 5- 2 | -397 / 0 | 0.0 | 0.0 | 0.12 (4) | 7.81 | | | |
| 1- 2 | 0 / 32 | -77.4 | -77.4 | 0.11 (1) | 10.00 | | | |
| 2- 3 | -35 / 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=0.18/1.00 (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= 0.27 (2) (INPUT = 0.90 )
JSI METAL= 0.10 (2) (INPUT = 1.00 )

LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
PROVINCE OF ONTARIO
Aug 14, 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-MINNISLAE HOMES-GRANDBROOKE 2 EL 3 | DRWG NO. |
|---|---|---|---|---|---|---|
| NE0818-073 | J03 | 5 | 1 | TRUSS DESC. | | **PAGE 15 OF 38** |

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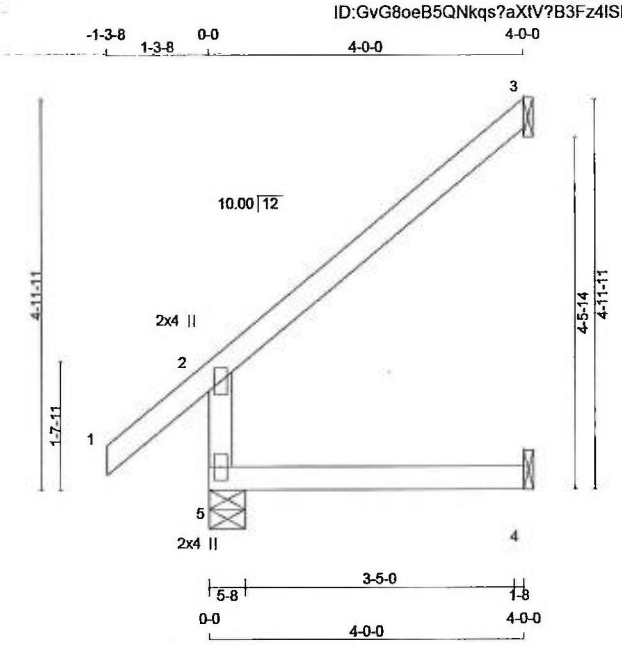


TOTAL WEIGHT = 5 X 14 = 70 lb [M]

**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**

| | FACTORED GROSS REACTION | | MAXIMUM FACTORED GROSS REACTION | | | INPUT BRG | REQRD BRG |
|---|---|---|---|---|---|---|---|
| JT | VERT | HORZ | DOWN | HORZ | UPLIFT | IN-SX | IN-SX |
| 5 | 340 | 0 | 340 | 0 | 0 | 5-8 | 5-8 |
| 3 | 116 | 0 | 116 | 0 | 0 | 1-8 | 1-8 |
| 4 | 31 | 0 | 34 | 0 | 0 | 1-8 | 1-8 |

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

**UNFACTORED REACTIONS**

| | 1ST LCASE | MAX./MIN. COMPONENT REACTIONS | | | | | |
|---|---|---|---|---|---|---|---|
| JT | COMBINED | SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
| 5 | 236 | 181 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 55 / 0 | 0 / 0 |
| 3 | 79 | 70 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 9 / 0 | 0 / 0 |
| 4 | 24 | 0 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 24 / 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 | | | | | | WEBS | | | |
|---|---|---|---|---|---|---|---|---|---|
| MEMB. | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) FROM | TO | LC1 MAX CSI (LC) | MAX. UNBRAC LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
| FR-TO | | | | | | FR-TO | | |
| 5- 2 | -300 / 0 | 0.0 | 0.0 | 0.04 (4) | 7.81 | | | |
| 1- 2 | 0 / 34 | -77.4 | -77.4 | 0.11 (1) | 10.00 | | | |
| 2- 3 | -25 / 0 | -77.4 | -77.4 | 0.21 (1) | 6.25 | | | |
| 5- 4 | 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

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 (0.01")

CSI: TC=0.21/1.00 (2-3:1) , BC=0.06/1.00 (4-5:4) , WB=0.00/1.00 (n/a:0) , SSI=0.12/1.00 (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) | | 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= 0.22 (2) (INPUT = 0.90 )
JSI METAL= 0.08 (2) (INPUT = 1.00 )

LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
PROVINCE OF ONTARIO
Aug 14, 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-MINNISLAE HOMES-GRANDBROOKE 2 EL 3 | DRWG NO. |
|---|---|---|---|---|---|---|
| NE0818-073 | J04 | 1 | 1 | TRUSS DESC. | | **PAGE 16 OF 38** |

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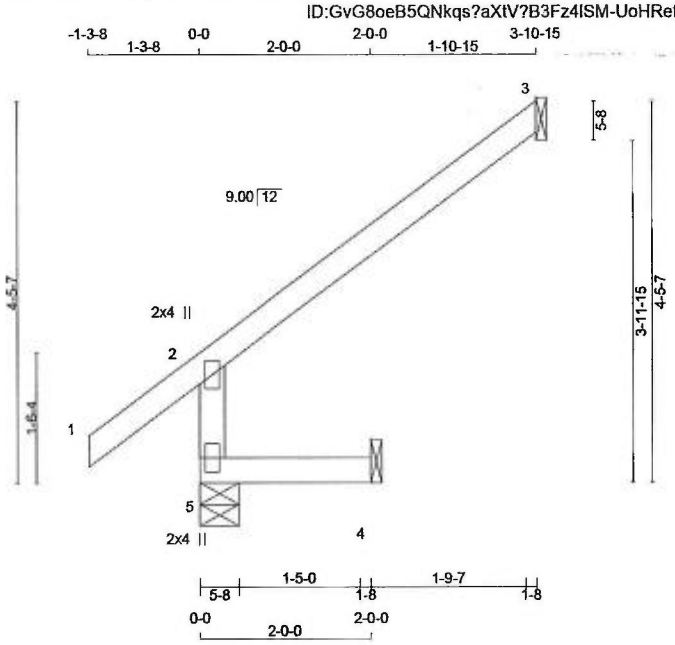


TOTAL WEIGHT = 11 lb [M]

**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 | 315 | 0 | 315 | 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 | 178 / 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 | -296 / 0 | 0.0 | 0.0 | 0.01 (4) | 7.81 | | | |
| 1-2 | 0 / 32 | -77.4 | -77.4 | 0.11 (1) | 10.00 | | | |
| 2-3 | -23 / 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=0.12/1.00 (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= 0.20 (2) (INPUT = 0.90 )
JSI METAL= 0.08 (2) (INPUT = 1.00 )

LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
PROVINCE OF ONTARIO
Aug 14, 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. |
|---|---|---|---|---|---|
| NE0818-073 | J05 | 1 | 1 | GREENPARK-MINNISLAE HOMES-GRANDBROOKE 2 EL 3 TRUSS DESC. | PAGE 17 OF 38 |

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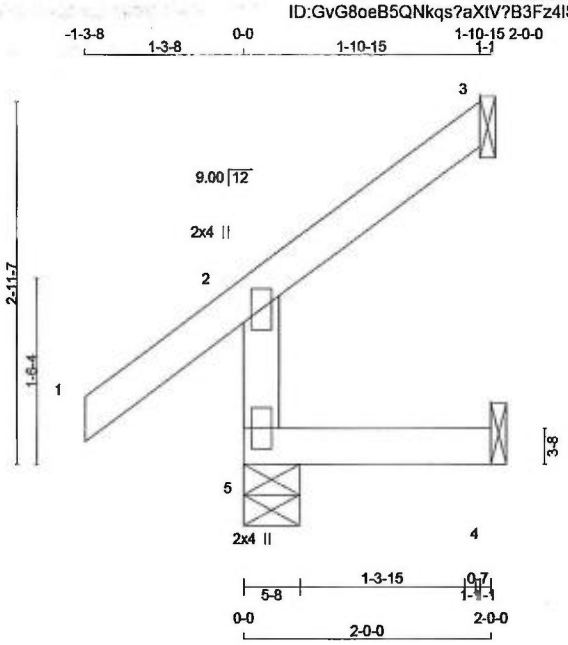


TOTAL WEIGHT = 8 lb [M]

**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**

| | FACTORED GROSS REACTION | | MAXIMUM FACTORED GROSS REACTION | | | INPUT BRG | REQRD BRG |
|---|---|---|---|---|---|---|---|
| JT | VERT | HORZ | DOWN | HORZ | UPLIFT | IN-SX | IN-SX |
| 5 | 236 | 0 | 236 | 0 | 0 | 5-8 | 5-8 |
| 3 | 43 | 0 | 43 | 0 | -21 | 1-8 | 1-8 |
| 4 | 10 | 0 | 18 | 0 | 0 | 1-8 | 1-8 |

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

PROVIDE ANCHORAGE AT BEARING JOINT 3 FOR 150 LBS FACTORED UPLIFT

**UNFACTORED REACTIONS**

| | 1ST LCASE | MAX./MIN. COMPONENT REACTIONS | | | | | |
|---|---|---|---|---|---|---|---|
| JT | COMBINED | SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
| 5 | 163 | 132 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 31 / 0 | 0 / 0 |
| 3 | 29 | 25 / -16 | 0 / 0 | 0 / 0 | 0 / 0 | 4 / 0 | 0 / 0 |
| 4 | 9 | 0 / -7 | 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 = 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 | | | | | | WEBS | | | |
|---|---|---|---|---|---|---|---|---|---|
| MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) FROM | TO | LC | MAX CSI (LC) | MAX. UNBRAC LENGTH | MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
| 5- 2 | -212 / 0 | 0.0 | 0.0 | 0.03 (5) | | 7.81 | | | |
| 1- 2 | 0 / 32 | -77.4 | -77.4 | 0.11 (1) | | 10.00 | | | |
| 2- 3 | -19 / 0 | -77.4 | -77.4 | 0.08 (1) | | 6.25 | | | |
| 5- 4 | 0 / 0 | -17.5 | -17.5 | 0.03 (5) | | 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=0.03/1.00 (4-5:5) , 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= 0.14 (2) (INPUT = 0.90 )
JSI METAL= 0.05 (2) (INPUT = 1.00 )

LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
PROVINCE OF ONTARIO
Aug 14, 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-MINNISLAE HOMES-GRANDBROOKE 2 EL 3 | DRWG NO. |
|---|---|---|---|---|---|---|
| NE0818-073 | J06 | 1 | 1 | TRUSS DESC. | | **PAGE 18 OF 38** |

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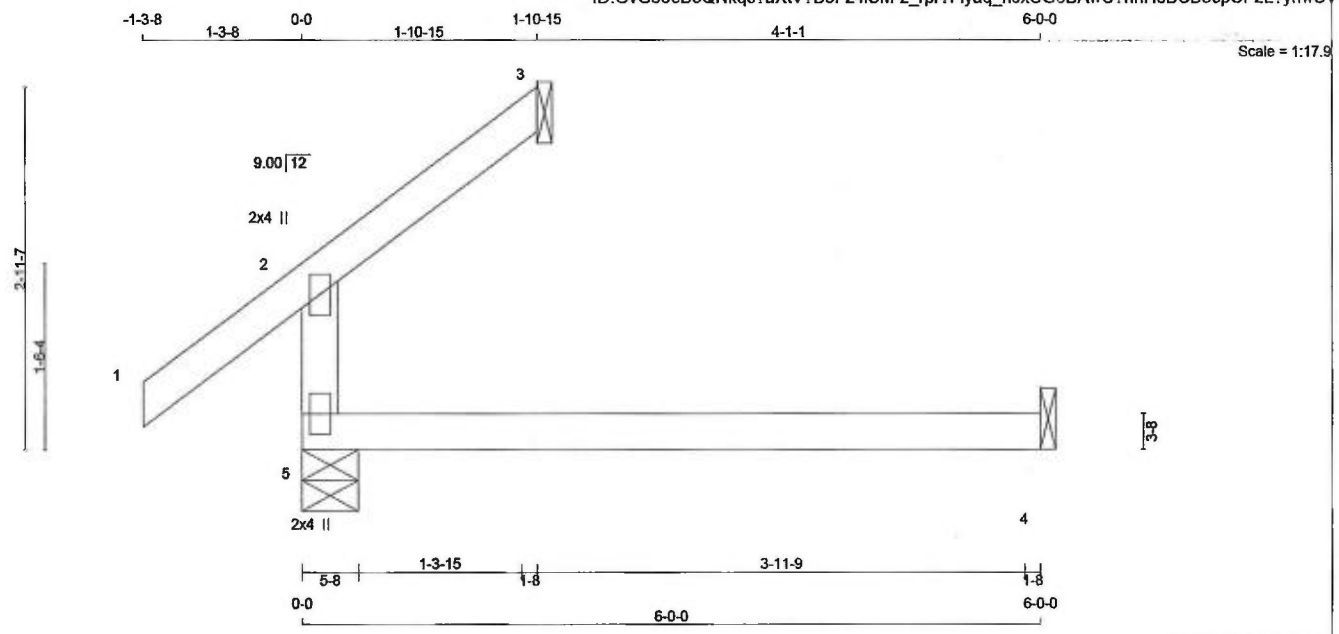


TOTAL WEIGHT = 13 lb [M]

**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 | 255 | 0 | 255 | 0 | 0 | 5-8 | 5-8 |
| 3 | 60 | 0 | 60 | 0 | 0 | 1-8 | 1-8 |
| 4 | 45 | 0 | 51 | 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 | 178 | 130 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 48 / 0 | 0 / 0 |
| 3 | 43 | 24 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 20 / 0 | 0 / 0 |
| 4 | 36 | 0 / -1 | 0 / 0 | 0 / 0 | 0 / 0 | 37 / 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) | MAX. UNBRAC LENGTH | WEBS MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
|---|---|---|---|---|---|---|---|---|
| 5-2 | -194 / 0 | 0.0 | 0.0 | 0.09 (4) | 7.81 | | | |
| 1-2 | 0 / 32 | -77.4 | -77.4 | 0.11 (1) | 10.00 | | | |
| 2-3 | -8 / 12 | -77.4 | -77.4 | 0.08 (4) | 10.00 | | | |
| 5-4 | 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

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 (0.04")

CSI: TC=0.11/1.00 (1-2:1) , BC=0.14/1.00 (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= 0.13 (2) (INPUT = 0.90 )
JSI METAL= 0.05 (2) (INPUT = 1.00 )

LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
PROVINCE OF ONTARIO
Aug 14, 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. |
|---|---|---|---|---|---|
| NE0818-073 | J07 | 1 | 1 | GREENPARK-MINNISLAE HOMES-GRANDBROOKE 2 EL 3 TRUSS DESC. | **PAGE 19 OF 38** |

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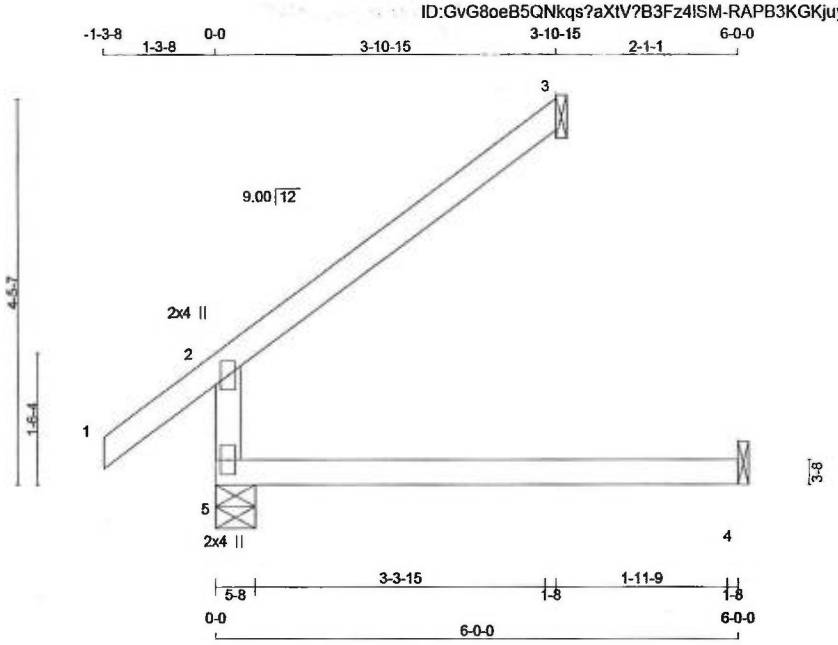


TOTAL WEIGHT = 16 lb [M]

**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 | 356 | 0 | 356 | 0 | 0 | 5-8 | 5-8 |
| 3 | 114 | 0 | 114 | 0 | 0 | 1-8 | 1-8 |
| 4 | 44 | 0 | 50 | 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 | 250 | 178 / 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) | MAX. UNBRAC LENGTH | WEBS MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
|---|---|---|---|---|---|---|---|---|
| 5- 2 | -296 / 0 | 0.0 | 0.0 | 0.12 (4) | 7.81 | | | |
| 1- 2 | 0 / 32 | -77.4 | -77.4 | 0.11 (1) | 10.00 | | | |
| 2- 3 | -23 / 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=0.12/1.00 (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= 0.20 (2) (INPUT = 0.90 )
JSI METAL= 0.08 (2) (INPUT = 1.00 )

LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
PROVINCE OF ONTARIO
Aug 14, 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-MINNISLAE HOMES-GRANDBROOKE 2 EL 3 | DRWG NO. |
|---|---|---|---|---|---|---|
| NE0818-073 | J08 | 1 | 1 | TRUSS DESC. | | **PAGE 20 OF 38** |

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Tue Aug 14 14:09:35 2018 Page 1
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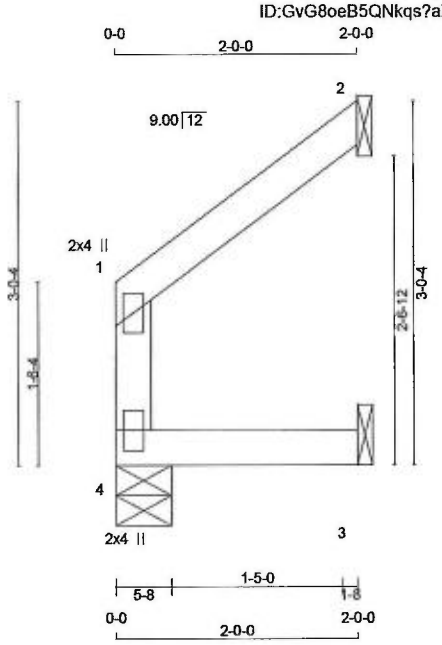


TOTAL WEIGHT = 7 lb

[M][F]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 4 - 1 | 2x4 | DRY | No.2 | SPF |
| 1 - 2 | 2x4 | DRY | No.2 | SPF |
| 4 - 3 | 2x4 | 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 | | |
| 4 | BMV1+p | MT20 | 2.0 | 4.0 | | |

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

**BEARINGS**

| | FACTORED GROSS REACTION | | MAXIMUM FACTORED GROSS REACTION | | | INPUT BRG | REQRD BRG |
|---|---|---|---|---|---|---|---|
| JT | VERT | HORZ | DOWN | HORZ | UPLIFT | IN-SX | IN-SX |
| 4 | 95 | 0 | 95 | 0 | 0 | 5-8 | 5-8 |
| 2 | 73 | 0 | 73 | 0 | 0 | 1-8 | 1-8 |
| 3 | 22 | 0 | 22 | 0 | 0 | 1-8 | 1-8 |

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) 2 , 3

**UNFACTORED REACTIONS**

| | 1ST LCASE | MAX./MIN. COMPONENT REACTIONS | | | | | |
|---|---|---|---|---|---|---|---|
| JT | COMBINED | SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
| 4 | 67 | 47 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 20 / 0 | 0 / 0 |
| 2 | 49 | 43 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 6 / 0 | 0 / 0 |
| 3 | 17 | 4 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 14 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 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 | | | | | | WEBS | | | |
|---|---|---|---|---|---|---|---|---|---|
| MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) FROM | TO | LC1 MAX CSI (LC) | MAX. UNBRAC LENGTH FR-TO | MEMB. | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
| 4- 1 | -82 / 0 | 0.0 | 0.0 | 0.01 (1) | 7.81 | | | |
| 1- 2 | -3 / 0 | -77.4 | -77.4 | 0.04 (1) | 10.00 | | | |
| 4- 3 | 0 / 0 | -17.5 | -17.5 | 0.02 (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 (0.19")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.00")

CSI: TC=0.04/1.00 (1-2:1) , BC=0.02/1.00 (3-4:1) , WB=0.00/1.00 (n/a:0) , SSI=0.05/1.00 (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

AUTOSOLVE HEELS OFF

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= 0.06 (1) (INPUT = 0.90 )
JSI METAL= 0.02 (1) (INPUT = 1.00 )

LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
PROVINCE OF ONTARIO
Aug 14, 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-MINNISLAE HOMES-GRANDBROOKE 2 EL 3 | DRWG NO. |
|---|---|---|---|---|---|---|
| NE0818-073 | T01 | 1 | 1 | TRUSS DESC. | | **PAGE 21 OF 38** |

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Tue Aug 14 14:09:36 2018 Page 1
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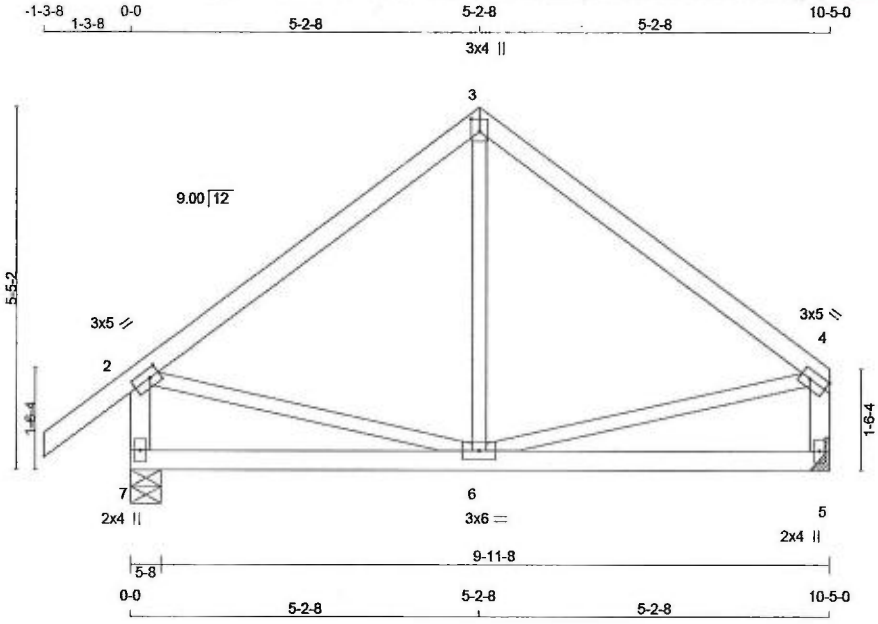


TOTAL WEIGHT = 43 lb [M][F]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 1 - 3 | 2x4 | DRY | No.2 | SPF |
| 3 - 4 | 2x4 | DRY | No.2 | SPF |
| 7 - 2 | 2x4 | DRY | No.2 | SPF |
| 5 - 4 | 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 | 1.75 |
| 3 | TTW+p | MT20 | 3.0 | 4.0 | 2.25 | 1.50 |
| 4 | TMVW-t | MT20 | 3.0 | 5.0 | 1.50 | Edge |
| 5 | BMV1+p | MT20 | 2.0 | 4.0 | | |
| 6 | BMWWW-t | MT20 | 3.0 | 6.0 | | |
| 7 | BMV1+p | MT20 | 2.0 | 4.0 | | |

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

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

**BEARINGS**

| JT | FACTORED GROSS REACTION VERT | HORZ | MAXIMUM FACTORED GROSS REACTION DOWN | HORZ | UPLIFT | INPUT BRG | REQRD BRG |
|---|---|---|---|---|---|---|---|
| 7 | 601 | 0 | 601 | 0 | 0 | 5-8 | 5-8 |
| 5 | 494 | 0 | 494 | 0 | 0 | MECHANICAL | |

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 5 TO RESIST THE MAX FACTORED REACTIONS.

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| 7 | 419 | 307 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 112 / 0 | 0 / 0 |
| 5 | 347 | 243 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 104 / 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 = 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 / 32 | -77.4 | -77.4 | 0.11 (1) | 10.00 | 6- 3 | -8 / 87 | 0.03 (4) |
| 2- 3 | -329 / 0 | -77.4 | -77.4 | 0.27 (1) | 6.25 | 2- 6 | 0 / 270 | 0.06 (1) |
| 3- 4 | -329 / 0 | -77.4 | -77.4 | 0.27 (1) | 6.25 | 6- 4 | 0 / 270 | 0.06 (1) |
| 7- 2 | -566 / 0 | 0.0 | 0.0 | 0.06 (1) | 7.81 | | | |
| 5- 4 | -459 / 0 | 0.0 | 0.0 | 0.05 (1) | 7.81 | | | |
| 7- 6 | 0 / 0 | -17.5 | -17.5 | 0.14 (4) | 10.00 | | | |
| 6- 5 | 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 (0.35")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.35")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.02")

CSI: TC=0.27/1.00 (2-3:1) , BC=0.14/1.00 (6-7:4) , WB=0.06/1.00 (4-6:1) , 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= 0.49 (6) (INPUT = 0.90 )
JSI METAL= 0.15 (2) (INPUT = 1.00 )

LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
PROVINCE OF ONTARIO
Aug 14, 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-MINNISLAE HOMES-GRANDBROOKE 2 EL 3 | DRWG NO. |
|---|---|---|---|---|---|---|
| NE0818-073 | T02 | 1 | 1 | TRUSS DESC. | | **PAGE 22 OF 38** |

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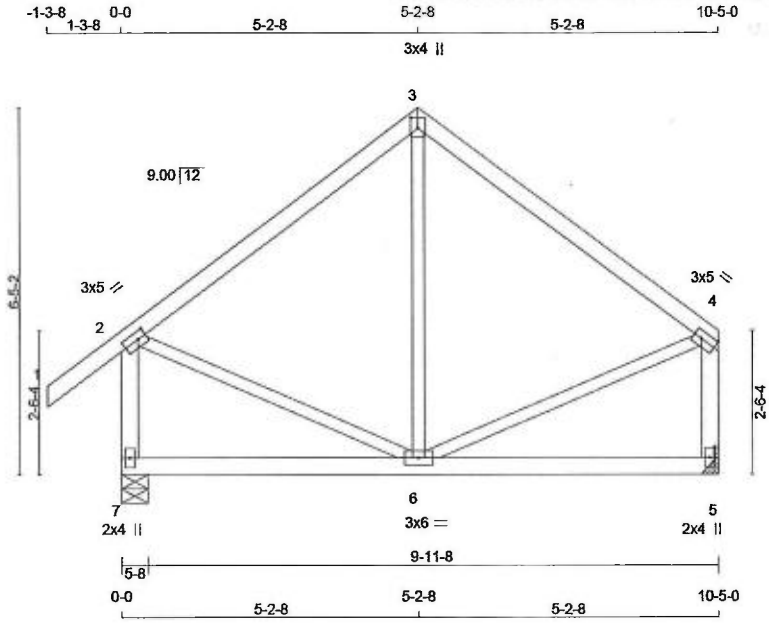


TOTAL WEIGHT = 47 lb

[M][F]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 1 - 3 | 2x4 | DRY | No.2 | SPF |
| 3 - 4 | 2x4 | DRY | No.2 | SPF |
| 7 - 2 | 2x4 | DRY | No.2 | SPF |
| 5 - 4 | 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 | 1.75 |
| 3 | TTW+p | MT20 | 3.0 | 4.0 | 2.25 | 1.50 |
| 4 | TMVW-t | MT20 | 3.0 | 5.0 | 1.50 | Edge |
| 5 | BMV1+p | MT20 | 2.0 | 4.0 | | |
| 6 | BMWWW-t | MT20 | 3.0 | 6.0 | | |
| 7 | BMV1+p | MT20 | 2.0 | 4.0 | | |

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

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

**BEARINGS**

| JT | FACTORED GROSS REACTION VERT | HORZ | MAXIMUM FACTORED GROSS REACTION DOWN | HORZ | UPLIFT | INPUT BRG | REQRD BRG |
|---|---|---|---|---|---|---|---|
| 7 | 601 | 0 | 601 | 0 | 0 | 5-8 | 5-8 |
| 5 | 494 | 0 | 494 | 0 | 0 | MECHANICAL | |

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 5 TO RESIST THE MAX FACTORED REACTIONS.

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| 7 | 419 | 307 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 112 / 0 | 0 / 0 |
| 5 | 347 | 243 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 104 / 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 = 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 / 32 | -77.4 | -77.4 | 0.11 (1) | 10.00 | 6-3 | -73 / 66 | 0.05 (1) |
| 2-3 | -275 / 0 | -77.4 | -77.4 | 0.27 (1) | 6.25 | 2-6 | 0 / 239 | 0.05 (1) |
| 3-4 | -275 / 0 | -77.4 | -77.4 | 0.27 (1) | 6.25 | 6-4 | 0 / 239 | 0.05 (1) |
| 7-2 | -566 / 0 | 0.0 | 0.0 | 0.08 (1) | 7.81 | | | |
| 5-4 | -459 / 0 | 0.0 | 0.0 | 0.06 (1) | 7.81 | | | |
| 7-6 | 0 / 0 | -17.5 | -17.5 | 0.14 (4) | 10.00 | | | |
| 6-5 | 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 (0.35")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.35")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.02")

CSI: TC=0.27/1.00 (2-3:1) , BC=0.14/1.00 (6-7:4) , WB=0.05/1.00 (4-6:1) , 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= 0.48 (4) (INPUT = 0.90 )
JSI METAL= 0.14 (4) (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. |
|---|---|---|---|---|---|
| NE0818-073 | T03 | 2 | 1 | GREENPARK-MINNISLAE HOMES-GRANDBROOKE 2 EL 3 TRUSS DESC. | **PAGE 23 OF 38** |



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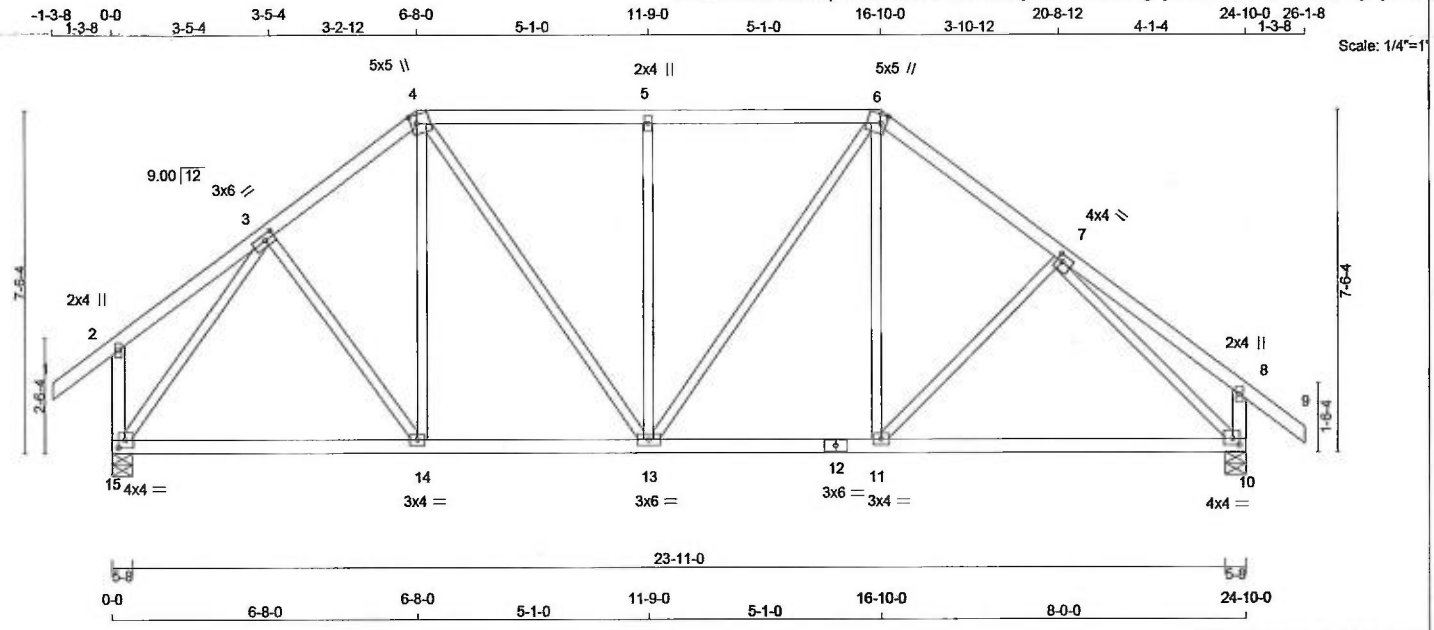


TOTAL WEIGHT = 2 X 117 = 234 lb

[M][F]

**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 - 9 | 2x4 | DRY | No.2 | SPF |
| 15 - 2 | 2x4 | DRY | No.2 | SPF |
| 10 - 8 | 2x4 | DRY | No.2 | SPF |
| 15 - 12 | 2x4 | DRY | No.2 | SPF |
| 12 - 10 | 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 | 3.0 | 6.0 | 1.50 | 2.50 |
| 4 | TTWW+m | MT20 | 5.0 | 5.0 | 2.25 | 1.50 |
| 5 | TMW+w | MT20 | 2.0 | 4.0 | | |
| 6 | TTWW+m | MT20 | 5.0 | 5.0 | 2.25 | 1.50 |
| 7 | TMWW-t | MT20 | 4.0 | 4.0 | 1.75 | 1.50 |
| 8 | TMV+p | MT20 | 2.0 | 4.0 | | |
| 10 | BMVW1-t | MT20 | 4.0 | 4.0 | 1.75 | 1.75 |
| 11 | BMWW-t | MT20 | 3.0 | 4.0 | | |
| 12 | BS-t | MT20 | 3.0 | 6.0 | | |
| 13 | BMWWW-t | MT20 | 3.0 | 6.0 | | |
| 14 | BMWW-t | MT20 | 3.0 | 4.0 | | |
| 15 | BMVW1-t | MT20 | 4.0 | 4.0 | 2.00 | 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 IN-SX | REQRD BRG IN-SX |
|---|---|---|---|---|---|---|---|
| 15 | 1285 | 0 | 1285 | 0 | 0 | 5-8 | 5-8 |
| 10 | 1285 | 0 | 1285 | 0 | 0 | 5-8 | 5-8 |

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| 15 | 899 | 643 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 257 / 0 | 0 / 0 |
| 10 | 899 | 643 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 257 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 15, 10

**BRACING**

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.77 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 / 32 | -77.4 | -77.4 | 0.11 (1) | 10.00 | 3-14 | 0 / 128 | 0.03 (1) |
| 2- 3 | 0 / 17 | -77.4 | -77.4 | 0.13 (1) | 10.00 | 14- 4 | 0 / 81 | 0.03 (4) |
| 3- 4 | -1029 / 0 | -77.4 | -77.4 | 0.11 (1) | 6.07 | 4-13 | 0 / 407 | 0.09 (1) |
| 4- 5 | -1042 / 0 | -77.4 | -77.4 | 0.27 (1) | 5.83 | 13- 5 | -480 / 0 | 0.49 (1) |
| 5- 6 | -1042 / 0 | -77.4 | -77.4 | 0.27 (1) | 5.83 | 13- 6 | 0 / 245 | 0.06 (1) |
| 6- 7 | -1146 / 0 | -77.4 | -77.4 | 0.16 (1) | 5.77 | 11- 6 | 0 / 203 | 0.05 (4) |
| 7- 8 | 0 / 21 | -77.4 | -77.4 | 0.19 (1) | 10.00 | 11- 7 | -79 / 29 | 0.05 (1) |
| 8- 9 | 0 / 32 | -77.4 | -77.4 | 0.11 (1) | 10.00 | 15- 3 | -1262 / 0 | 0.69 (1) |
| 15- 2 | -208 / 0 | 0.0 | 0.0 | 0.03 (1) | 7.81 | 7-10 | -1382 / 0 | 0.76 (1) |
| 10- 8 | -226 / 0 | 0.0 | 0.0 | 0.02 (1) | 7.81 | | | |
| 15-14 | 0 / 732 | -17.5 | -17.5 | 0.23 (4) | 10.00 | | | |
| 14-13 | 0 / 808 | -17.5 | -17.5 | 0.24 (4) | 10.00 | | | |
| 13-12 | 0 / 901 | -17.5 | -17.5 | 0.32 (4) | 10.00 | | | |
| 12-11 | 0 / 901 | -17.5 | -17.5 | 0.32 (4) | 10.00 | | | |
| 11-10 | 0 / 953 | -17.5 | -17.5 | 0.31 (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 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.83")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.14")

CSI: TC=0.27/1.00 (4-5:1) , BC=0.32/1.00 (11-13:4) , WB=0.76/1.00 (7-10:1) , SSI=0.19/1.00 (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= 0.87 (15) (INPUT = 0.90 )
JSI METAL= 0.51 (7) (INPUT = 1.00 )

KOTT

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | DRWG NO. |
|---|---|---|---|---|---|
| NE0818-073 | T04 | 1 | 1 | GREENPARK-MINNISLAE HOMES-GRANDBROOKE 2 EL 3 TRUSS DESC. | **PAGE 24 OF 38** |

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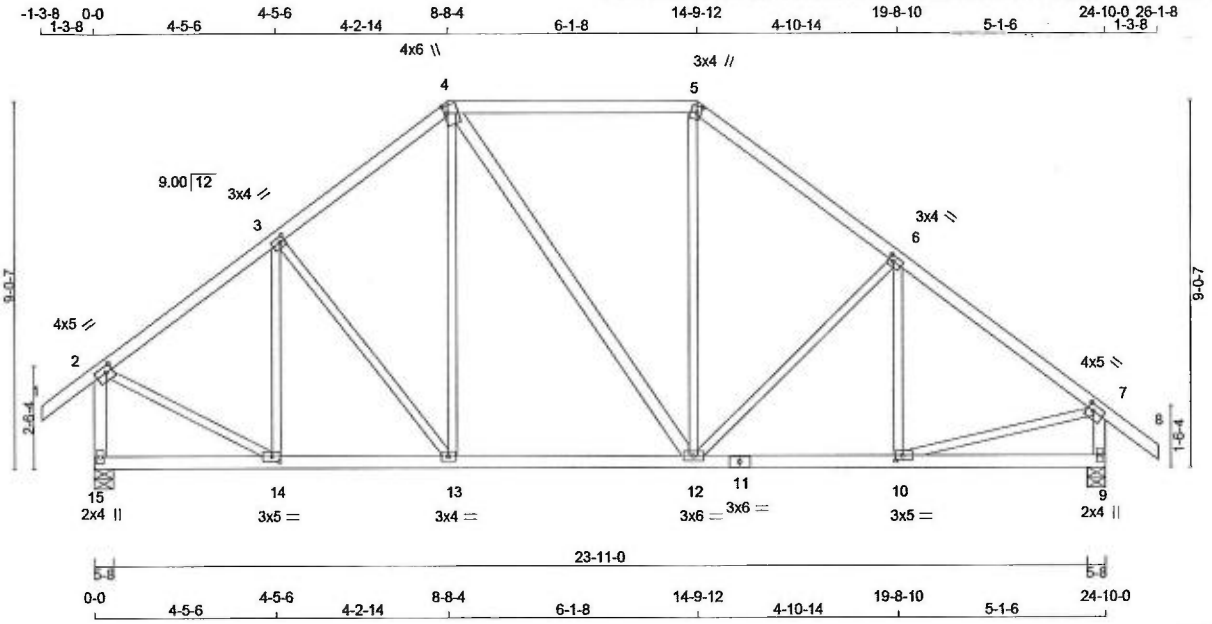


TOTAL WEIGHT = 122 lb [M][F]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 1 - 4 | 2x4 | DRY | No.2 | SPF |
| 4 - 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 - 11 | 2x4 | DRY | No.2 | SPF |
| 11 - 9 | 2x4 | DRY | No.2 | SPF |
| ALL WEBS EXCEPT | 2x3 | DRY | No.2 | SPF |
| 4 - 12 | 2x4 | 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 | 5.0 | 1.75 | 2.00 |
| 3 | TMWW-t | MT20 | 3.0 | 4.0 | 1.50 | 1.50 |
| 4 | TTWW+m | MT20 | 4.0 | 6.0 | 2.25 | 1.00 |
| 5 | TTW+m | MT20 | 3.0 | 4.0 | 2.00 | 1.25 |
| 6 | TMWW-t | MT20 | 3.0 | 4.0 | 1.50 | 1.50 |
| 7 | TMVW-t | MT20 | 4.0 | 5.0 | 1.75 | 2.00 |
| 9 | BMV1+p | MT20 | 2.0 | 4.0 | | |
| 10 | BMWW-t | MT20 | 3.0 | 5.0 | 1.50 | 2.00 |
| 11 | BS-t | MT20 | 3.0 | 6.0 | | |
| 12 | BMWWW-t | MT20 | 3.0 | 6.0 | | |
| 13 | BMWW-t | MT20 | 3.0 | 4.0 | | |
| 14 | BMWW-t | MT20 | 3.0 | 5.0 | 1.50 | 2.25 |
| 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 | 1285 | 0 | 1285 | 0 | 0 | 5-8 | 5-8 |
| 9 | 1285 | 0 | 1285 | 0 | 0 | 5-8 | 5-8 |

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| 15 | 899 | 643 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 257 / 0 | 0 / 0 |
| 9 | 899 | 643 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 257 / 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 = 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.

**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 / 32 | -77.4 | -77.4 | 0.11 (1) | 10.00 | 14- 3 | -322 / 0 | 0.17 (1) |
| 2- 3 | -994 / 0 | -77.4 | -77.4 | 0.20 (1) | 6.04 | 3-13 | -78 / 0 | 0.07 (1) |
| 3- 4 | -984 / 0 | -77.4 | -77.4 | 0.20 (1) | 6.06 | 13- 4 | 0 / 153 | 0.04 (4) |
| 4- 5 | -812 / 0 | -77.4 | -77.4 | 0.38 (1) | 6.21 | 4-12 | 0 / 78 | 0.01 (1) |
| 5- 6 | -1042 / 0 | -77.4 | -77.4 | 0.26 (1) | 5.85 | 12- 5 | 0 / 231 | 0.05 (1) |
| 6- 7 | -1228 / 0 | -77.4 | -77.4 | 0.27 (1) | 5.49 | 12- 6 | -277 / 0 | 0.27 (1) |
| 7- 8 | 0 / 32 | -77.4 | -77.4 | 0.11 (1) | 10.00 | 10- 6 | -141 / 39 | 0.06 (1) |
| 15- 2 | -1251 / 0 | 0.0 | 0.0 | 0.17 (1) | 7.19 | 2-14 | 0 / 908 | 0.20 (1) |
| 9- 7 | -1246 / 0 | 0.0 | 0.0 | 0.13 (1) | 7.19 | 10- 7 | 0 / 1031 | 0.23 (1) |
| 15-14 | 0 / 0 | -17.5 | -17.5 | 0.07 (4) | 10.00 | | | |
| 14-13 | 0 / 814 | -17.5 | -17.5 | 0.18 (1) | 10.00 | | | |
| 13-12 | 0 / 767 | -17.5 | -17.5 | 0.19 (1) | 10.00 | | | |
| 12-11 | 0 / 1004 | -17.5 | -17.5 | 0.22 (1) | 10.00 | | | |
| 11-10 | 0 / 1004 | -17.5 | -17.5 | 0.22 (1) | 10.00 | | | |
| 10- 9 | 0 / 0 | -17.5 | -17.5 | 0.10 (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 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.83")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.07")

CSI: TC=0.38/1.00 (4-5:1) , BC=0.22/1.00 (10-12:1) , WB=0.27/1.00 (6-12:1) , SSI=0.18/1.00 (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= 0.89 (5) (INPUT = 0.90 )
JSI METAL= 0.42 (7) (INPUT = 1.00 )

LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
PROVINCE OF ONTARIO
Aug 14, 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-MINNISLAE HOMES-GRANDBROOKE 2 EL 3 | DRWG NO. |
|---|---|---|---|---|---|---|
| NE0818-073 | T05 | 3 | 1 | TRUSS DESC. | | **PAGE 25 OF 38** |

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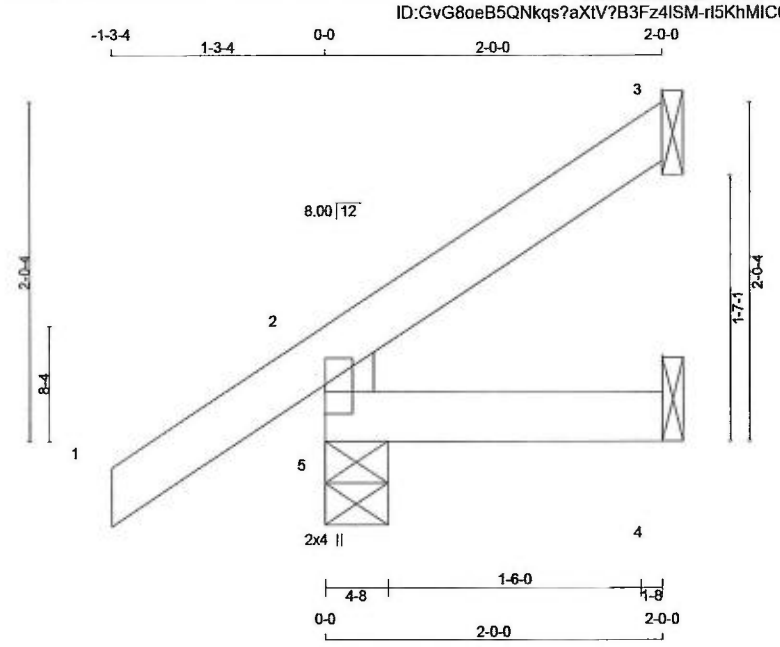


TOTAL WEIGHT = 3 X 7 = 22 lb [M]

**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 | | | | | | |
| 5 | | | | | | |
| 5 | TMBMV1+p | MT20 | 2.0 | 4.0 | 1.50 | |

**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 | 221 | 0 | 221 | 0 | 0 | 4-8 | 4-8 |
| 3 | 58 | 0 | 58 | 0 | 0 | 1-8 | 1-8 |
| 4 | 15 | 0 | 16 | 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 | 153 | 121 / 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 = 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) | WEBS MAX. UNBRAC LENGTH | MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
|---|---|---|---|---|---|---|---|---|
| 5- 2 | -201 / 0 | 0.0 | 0.0 | 0.01 (4) | 7.81 | | | |
| 1- 2 | 0 / 29 | -77.4 | -77.4 | 0.10 (1) | 10.00 | | | |
| 2- 3 | -11 / 0 | -77.4 | -77.4 | 0.05 (1) | 6.25 | | | |
| 5- 4 | 0 / 0 | -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

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=0.01/1.00 (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= 0.89 (5) (INPUT = 0.90 )
JSI METAL= 0.05 (5) (INPUT = 1.00 )

LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
PROVINCE OF ONTARIO
Aug 14, 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. |
|---|---|---|---|---|---|
| NE0818-073 | T06 | 1 | 1 | GREENPARK-MINNISLAE HOMES-GRANDBROOKE 2 EL 3 TRUSS DESC. | **PAGE 26 OF 38** |

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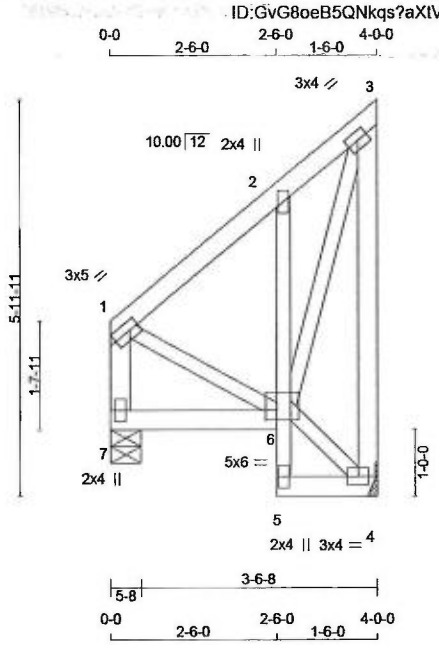


TOTAL WEIGHT = 28 lb [M][F]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 7 - 1 | 2x4 | DRY | No.2 | SPF |
| 1 - 3 | 2x4 | DRY | No.2 | SPF |
| 4 - 3 | 2x4 | DRY | No.2 | SPF |
| 7 - 6 | 2x4 | DRY | No.2 | SPF |
| 5 - 2 | 2x3 | DRY | No.2 | SPF |
| 5 - 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 |
|---|---|---|---|---|---|---|
| 1 | TMVW-t | MT20 | 3.0 | 5.0 | 1.50 | 1.75 |
| 2 | TMV+p | MT20 | 2.0 | 4.0 | | |
| 3 | TMVW-t | MT20 | 3.0 | 4.0 | | |
| 4 | BMVW1-t | MT20 | 3.0 | 4.0 | | |
| 5 | BMV+p | MT20 | 2.0 | 4.0 | | |
| 6 | BVMWWW-t | MT20 | 5.0 | 6.0 | 1.75 | 2.00 |
| 7 | BMV1+p | MT20 | 2.0 | 4.0 | | |

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

**BEARINGS**

| | FACTORED GROSS REACTION | | MAXIMUM FACTORED GROSS REACTION | | | INPUT BRG | REQRD BRG |
|---|---|---|---|---|---|---|---|
| JT | VERT | HORZ | DOWN | HORZ | UPLIFT | IN-SX | IN-SX |
| 7 | 190 | 0 | 190 | 0 | 0 | 5-8 | 5-8 |
| 4 | 190 | 0 | 190 | 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 |
|---|---|---|---|---|---|---|---|
| 7 | 133 | 93 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 40 / 0 | 0 / 0 |
| 4 | 133 | 93 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 40 / 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 = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

| CHORDS 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) |
|---|---|---|---|---|---|---|---|---|
| 7- 1 | -167 / 0 | 0.0 | 0.0 | 0.02 (1) | 7.81 | 1- 6 | 0 / 71 | 0.02 (1) |
| 1- 2 | -73 / 0 | -77.4 | -77.4 | 0.05 (1) | 6.25 | 6- 4 | -5 / 0 | 0.00 (1) |
| 2- 3 | -89 / 0 | -77.4 | -77.4 | 0.04 (1) | 6.25 | 6- 3 | 0 / 197 | 0.04 (1) |
| 4- 3 | -175 / 0 | 0.0 | 0.0 | 0.11 (1) | 7.81 | | | |
| 7- 6 | 0 / 0 | -17.5 | -17.5 | 0.03 (4) | 10.00 | | | |
| 5- 6 | 0 / 14 | 0.0 | 0.0 | 0.01 (1) | 10.00 | | | |
| 6- 2 | -188 / 0 | 0.0 | 0.0 | 0.01 (1) | 7.81 | | | |
| 5- 4 | 0 / 4 | -17.5 | -17.5 | 0.01 (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 (0.19")
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 (3-4:1) , BC=0.03/1.00 (6-7:4) , WB=0.04/1.00 (3-6:1) , 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= 0.51 (3) (INPUT = 0.90 )
JSI METAL= 0.06 (3) (INPUT = 1.00 )

LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
PROVINCE OF ONTARIO
Aug 14, 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. |
|---|---|---|---|---|---|
| NE0818-073 | T07 | 1 | 1 | GREENPARK-MINNISLAE HOMES-GRANDBROOKE 2 EL 3 TRUSS DESC. | PAGE 27 OF 38 |

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Tue Aug 14 14:09:39 2018 Page 1
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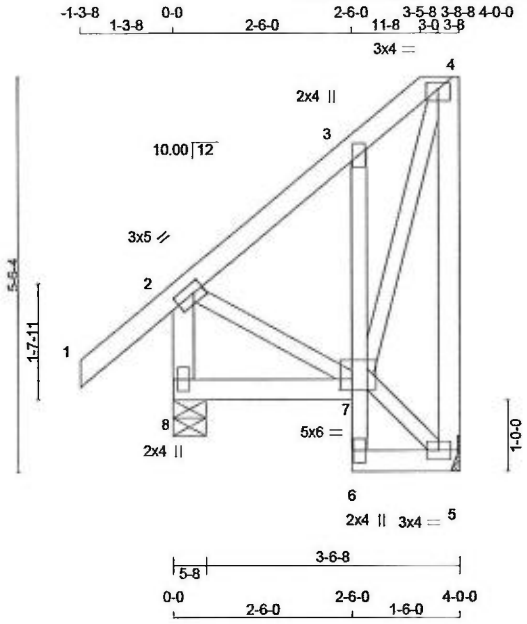


Scale = 1:30.8

TOTAL WEIGHT = 30 lb [M]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 1 - 4 | 2x4 | DRY | No.2 | SPF |
| 5 - 4 | 2x4 | DRY | No.2 | SPF |
| 8 - 2 | 2x4 | DRY | No.2 | SPF |
| 8 - 7 | 2x4 | DRY | No.2 | SPF |
| 6 - 3 | 2x3 | DRY | No.2 | SPF |
| 6 - 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 | 1.75 |
| 3 | TMV+p | MT20 | 2.0 | 4.0 | | |
| 4 | TMVW-p | MT20 | 3.0 | 4.0 | 1.00 | 2.00 |
| 5 | BMVW1-t | MT20 | 3.0 | 4.0 | | |
| 6 | BMV+p | MT20 | 2.0 | 4.0 | | |
| 7 | BVMWWW-t | MT20 | 5.0 | 6.0 | 1.75 | 2.00 |
| 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 | REQRD BRG |
|---|---|---|---|---|---|---|---|
| 5 | 190 | 0 | 190 | 0 | 0 | MECHANICAL | |
| 8 | 297 | 0 | 297 | 0 | 0 | 5-8 | 5-8 |

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 5 TO RESIST THE MAX FACTORED REACTIONS.

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| 5 | 133 | 93 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 40 / 0 | 0 / 0 |
| 8 | 206 | 158 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 48 / 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 = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

| CHORDS 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 / 34 | -77.4 | -77.4 | 0.11 (1) | 10.00 | 7-5 | -5 / 0 | 0.00 (1) |
| 2-3 | -73 / 0 | -77.4 | -77.4 | 0.06 (1) | 6.25 | 7-4 | 0 / 197 | 0.04 (1) |
| 3-4 | -89 / 0 | -77.4 | -77.4 | 0.05 (1) | 6.25 | 2-7 | 0 / 71 | 0.02 (1) |
| 5-4 | -175 / 0 | 0.0 | 0.0 | 0.11 (1) | 7.81 | | | |
| 8-2 | -274 / 0 | 0.0 | 0.0 | 0.03 (1) | 7.81 | | | |
| 8-7 | 0 / 0 | -17.5 | -17.5 | 0.03 (4) | 10.00 | | | |
| 6-7 | 0 / 14 | 0.0 | 0.0 | 0.01 (1) | 10.00 | | | |
| 7-3 | -188 / 0 | 0.0 | 0.0 | 0.02 (1) | 7.81 | | | |
| 6-5 | 0 / 4 | -17.5 | -17.5 | 0.01 (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 (0.19")
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 (4-5:1) , BC=0.03/1.00 (7-8:4) , WB=0.04/1.00 (4-7:1) , SSI=0.07/1.00 (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 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= 0.54 (4) (INPUT = 0.90 )
JSI METAL= 0.06 (4) (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. |
|---|---|---|---|---|---|
| NE0818-073 | T08 | 1 | 1 | GREENPARK-MINNISLAE HOMES-GRANDBROOKE 2 EL 3 TRUSS DESC. | **PAGE 28 OF 38** |

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Tue Aug 14 14:09:39 2018 Page 1
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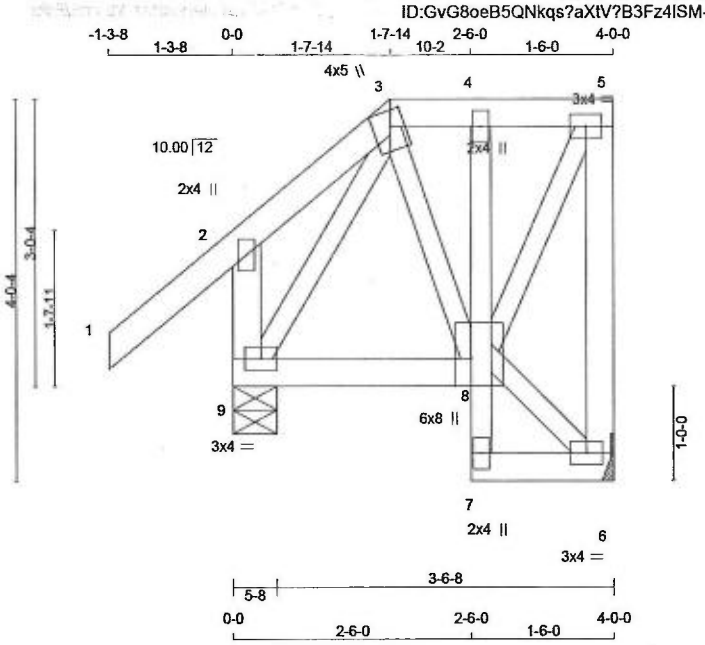


Scale = 1:23.1

TOTAL WEIGHT = 28 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 |
| 9 - 2 | 2x4 | DRY | No.2 | SPF |
| 9 - 8 | 2x4 | DRY | No.2 | SPF |
| 7 - 4 | 2x3 | DRY | No.2 | SPF |
| 7 - 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 | TMV+p | MT20 | 2.0 | 4.0 | | |
| 3 | TTWW+m | MT20 | 4.0 | 5.0 | 2.00 | 1.75 |
| 4 | TMV+p | MT20 | 2.0 | 4.0 | | |
| 5 | TMVW-t | MT20 | 3.0 | 4.0 | | |
| 6 | BMVW1-t | MT20 | 3.0 | 4.0 | | |
| 7 | BMV+p | MT20 | 2.0 | 4.0 | | |
| 8 | BVMWWW+l | MT20 | 6.0 | 8.0 | Edge | 2.00 |
| 9 | BMVW1-t | MT20 | 3.0 | 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 IN-SX | REQRD BRG IN-SX |
|---|---|---|---|---|---|---|---|
| 6 | 171 | 0 | 171 | 0 | 0 | MECHANICAL | |
| 9 | 315 | 0 | 315 | 0 | 0 | 5-8 | 5-8 |

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 6 TO RESIST THE MAX FACTORED REACTIONS.

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| 6 | 121 | 82 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 39 / 0 | 0 / 0 |
| 9 | 219 | 169 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 50 / 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 = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

| CHORDS 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 / 34 | -77.4 | -77.4 | 0.11 (1) | 10.00 | 3- 8 | 0 / 25 | 0.01 (1) |
| 2- 3 | -29 / 0 | -77.4 | -77.4 | 0.10 (1) | 6.25 | 8- 6 | -2 / 0 | 0.00 (1) |
| 3- 4 | -55 / 0 | -77.4 | -77.4 | 0.01 (1) | 6.25 | 8- 5 | 0 / 119 | 0.03 (1) |
| 4- 5 | -54 / 0 | -77.4 | -77.4 | 0.02 (1) | 6.25 | 9- 3 | -90 / 0 | 0.02 (1) |
| 6- 5 | -158 / 0 | 0.0 | 0.0 | 0.04 (1) | 7.81 | | | |
| 9- 2 | -216 / 0 | 0.0 | 0.0 | 0.02 (1) | 7.81 | | | |
| 9- 8 | 0 / 47 | -17.5 | -17.5 | 0.04 (4) | 10.00 | | | |
| 7- 8 | 0 / 14 | 0.0 | 0.0 | 0.01 (1) | 10.00 | | | |
| 8- 4 | -96 / 0 | 0.0 | 0.0 | 0.01 (1) | 7.81 | | | |
| 7- 6 | 0 / 2 | -17.5 | -17.5 | 0.01 (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

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=0.04/1.00 (8-9:4) , WB=0.03/1.00 (5-8:1) , SSI=0.06/1.00 (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 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

JSI GRIP= 0.26 (5) (INPUT = 0.90 )
JSI METAL= 0.06 (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-MINNISLAE HOMES-GRANDBROOKE 2 EL 3 | DRWG NO. |
|---|---|---|---|---|---|---|
| NE0818-073 | T09 | 1 | 1 | TRUSS DESC. | | **PAGE 30 OF 38** |

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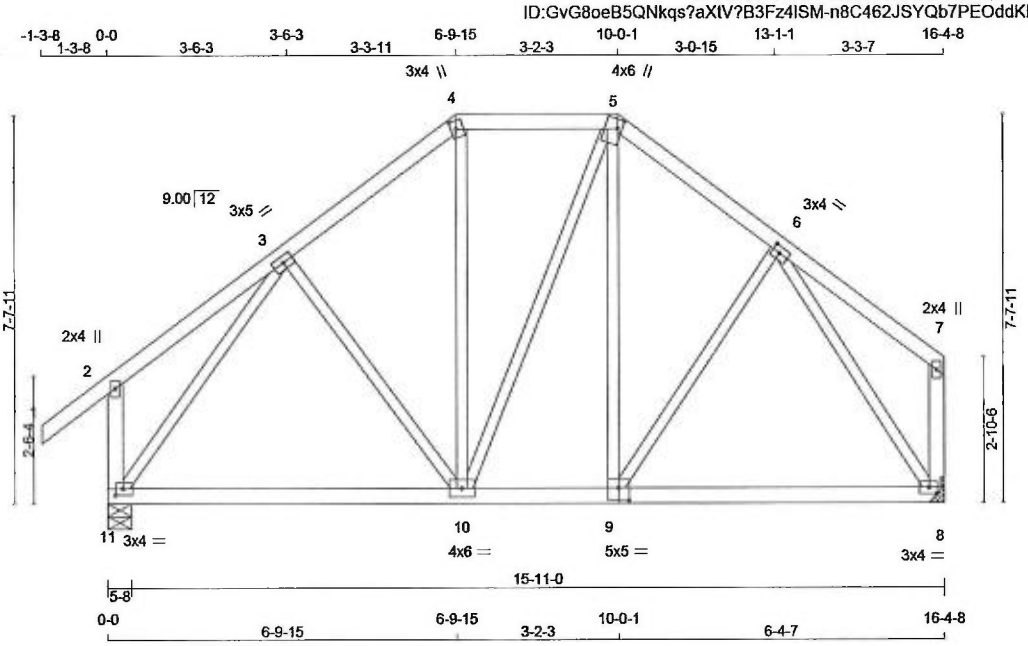


TOTAL WEIGHT = 84 lb

[M][F]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 1 - 4 | 2x4 | DRY | No.2 | SPF |
| 4 - 5 | 2x4 | DRY | No.2 | SPF |
| 5 - 7 | 2x4 | DRY | No.2 | SPF |
| 11 - 2 | 2x4 | DRY | No.2 | SPF |
| 8 - 7 | 2x4 | DRY | No.2 | SPF |
| 11 - 9 | 2x4 | DRY | No.2 | SPF |
| 9 - 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 |
|---|---|---|---|---|---|---|
| 2 | TMV+p | MT20 | 2.0 | 4.0 | | |
| 3 | TMWW-t | MT20 | 3.0 | 5.0 | | |
| 4 | TTW+m | MT20 | 3.0 | 4.0 | 2.00 | 1.25 |
| 5 | TTWW+m | MT20 | 4.0 | 6.0 | 2.25 | 1.00 |
| 6 | TMWW-t | MT20 | 3.0 | 4.0 | 1.50 | 1.75 |
| 7 | TMV+p | MT20 | 2.0 | 4.0 | | |
| 8 | BMVW1-t | MT20 | 3.0 | 4.0 | 1.50 | 1.75 |
| 9 | BSWW-t | MT20 | 5.0 | 5.0 | 3.00 | 2.50 |
| 10 | BMWWW-t | MT20 | 4.0 | 6.0 | | |
| 11 | BMVW1-t | MT20 | 3.0 | 4.0 | 1.50 | 1.75 |

**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 |
|---|---|---|---|---|---|---|---|
| 11 | 883 | 0 | 883 | 0 | 0 | 5-8 | 5-8 |
| 8 | 777 | 0 | 777 | 0 | 0 | MECHANICAL | |

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 8 TO RESIST THE MAX FACTORED REACTIONS.

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| 11 | 618 | 446 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 172 / 0 | 0 / 0 |
| 8 | 545 | 381 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 164 / 0 | 0 / 0 |

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

**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 / 32 | -77.4 | -77.4 | 0.11 (1) | 10.00 | 3-10 | -32 / 31 | 0.02 (1) |
| 2- 3 | 0 / 18 | -77.4 | -77.4 | 0.14 (1) | 10.00 | 10- 4 | 0 / 101 | 0.03 (4) |
| 3- 4 | -557 / 0 | -77.4 | -77.4 | 0.11 (1) | 6.25 | 10- 5 | 0 / 29 | 0.01 (1) |
| 4- 5 | -431 / 0 | -77.4 | -77.4 | 0.10 (1) | 6.25 | 9- 5 | 0 / 73 | 0.02 (4) |
| 5- 6 | -542 / 0 | -77.4 | -77.4 | 0.10 (1) | 6.25 | 9- 6 | 0 / 42 | 0.01 (4) |
| 6- 7 | 0 / 17 | -77.4 | -77.4 | 0.12 (1) | 10.00 | 11- 3 | -768 / 0 | 0.43 (1) |
| 11- 2 | -209 / 0 | 0.0 | 0.0 | 0.03 (1) | 7.81 | 6- 8 | -753 / 0 | 0.43 (1) |
| 8- 7 | -96 / 0 | 0.0 | 0.0 | 0.01 (1) | 7.81 | | | |
| 11-10 | 0 / 449 | -17.5 | -17.5 | 0.20 (4) | 10.00 | | | |
| 10- 9 | 0 / 420 | -17.5 | -17.5 | 0.20 (4) | 10.00 | | | |
| 9- 8 | 0 / 410 | -17.5 | -17.5 | 0.18 (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 (0.55")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.55")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.07")

CSI: TC=0.14/1.00 (2-3:1) , BC=0.20/1.00 (10-11:4) , WB=0.43/1.00 (3-11:1) , SSI=0.10/1.00 (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= 0.90 (6) (INPUT = 0.90 )
JSI METAL= 0.26 (6) (INPUT = 1.00 )

LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
PROVINCE OF ONTARIO
Aug 14, 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. |
|---|---|---|---|---|---|
| NE0818-073 | T10 | 1 | 1 | GREENPARK-MINNISLAE HOMES-GRANDBROOKE 2 EL 3 TRUSS DESC. | **PAGE 31 OF 38** |

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Tue Aug 14 14:09:40 2018 Page 1
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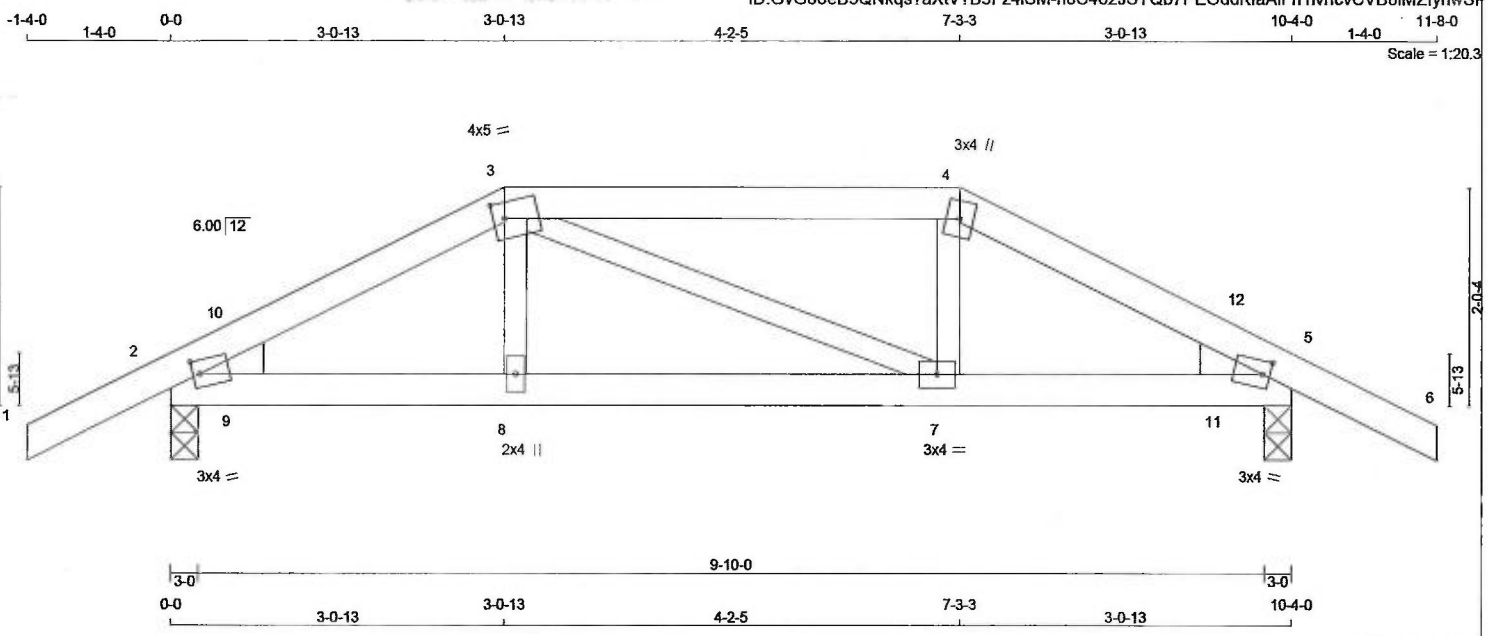


TOTAL WEIGHT = 35 lb
[M][F]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 1 - 3 | 2x4 | DRY | No.2 | SPF |
| 3 - 4 | 2x4 | DRY | No.2 | SPF |
| 4 - 6 | 2x4 | DRY | No.2 | SPF |
| 2 - 5 | 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 | TMBH1-m | MT20 | 3.0 | 4.0 | 1.50 | 0.75 |
| 3 | TTWW-m | MT20 | 4.0 | 5.0 | 1.75 | 1.25 |
| 4 | TTW+m | MT20 | 3.0 | 4.0 | | |
| 5 | TMBH1-m | MT20 | 3.0 | 4.0 | 1.50 | 0.75 |
| 7 | BMWW-t | MT20 | 3.0 | 4.0 | | |
| 8 | BMW+w | MT20 | 2.0 | 4.0 | | |

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

**BEARINGS**

| JT | FACTORED GROSS REACTION VERT | HORZ | MAXIMUM FACTORED GROSS REACTION DOWN | HORZ | UPLIFT | INPUT BRG IN-SX | REQRD BRG IN-SX | HEEL WEDGE |
|---|---|---|---|---|---|---|---|---|
| 2 | 598 | 0 | 598 | 0 | 0 | 3-0 | 3-0 | 2x4 L |
| 5 | 598 | 0 | 598 | 0 | 0 | 3-0 | 3-0 | 2x4 R |

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| 2 | 417 | 306 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 112 / 0 | 0 / 0 |
| 5 | 417 | 306 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 112 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 2, 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) |
|---|---|---|---|---|---|---|---|---|
| 1- 2 | 0 / 19 | -77.4 | -77.4 | 0.11 (1) | 10.00 | 8- 3 | 0 / 70 | 0.02 (4) |
| 2-10 | -759 / 0 | -77.4 | -77.4 | 0.04 (1) | 6.25 | 3- 7 | 0 / 0 | 0.00 (1) |
| 10- 3 | -700 / 0 | -77.4 | -77.4 | 0.06 (1) | 6.25 | 7- 4 | 0 / 70 | 0.02 (4) |
| 3- 4 | -625 / 0 | -77.4 | -77.4 | 0.18 (1) | 6.25 | 9-10 | -5 / 31 | 0.00 (1) |
| 4-12 | -700 / 0 | -77.4 | -77.4 | 0.06 (1) | 6.25 | 11-12 | -5 / 31 | 0.00 (1) |
| 12- 5 | -759 / 0 | -77.4 | -77.4 | 0.04 (1) | 6.25 | | | |
| 5- 6 | 0 / 19 | -77.4 | -77.4 | 0.11 (1) | 10.00 | | | |
| 2- 9 | 0 / 621 | -17.5 | -17.5 | 0.12 (1) | 10.00 | | | |
| 9- 8 | 0 / 621 | -17.5 | -17.5 | 0.12 (1) | 10.00 | | | |
| 8- 7 | 0 / 625 | -17.5 | -17.5 | 0.13 (1) | 10.00 | | | |
| 7-11 | 0 / 621 | -17.5 | -17.5 | 0.12 (1) | 10.00 | | | |
| 11- 5 | 0 / 621 | -17.5 | -17.5 | 0.12 (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 (0.34")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.34")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.02")

CSI: TC=0.18/1.00 (3-4:1) , BC=0.13/1.00 (7-8:1) , WB=0.02/1.00 (4-7:4) , SSI=0.13/1.00 (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= 0.90 (4) (INPUT = 0.90 )
JSI METAL= 0.26 (5) (INPUT = 1.00 )

LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
PROVINCE OF ONTARIO
Aug 14, 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. |
|---|---|---|---|---|---|
| NE0818-073 | T11 | 2 | 1 | GREENPARK-MINNISLAE HOMES-GRANDBROOKE 2 EL 3 TRUSS DESC. | **PAGE 32 OF 38** |

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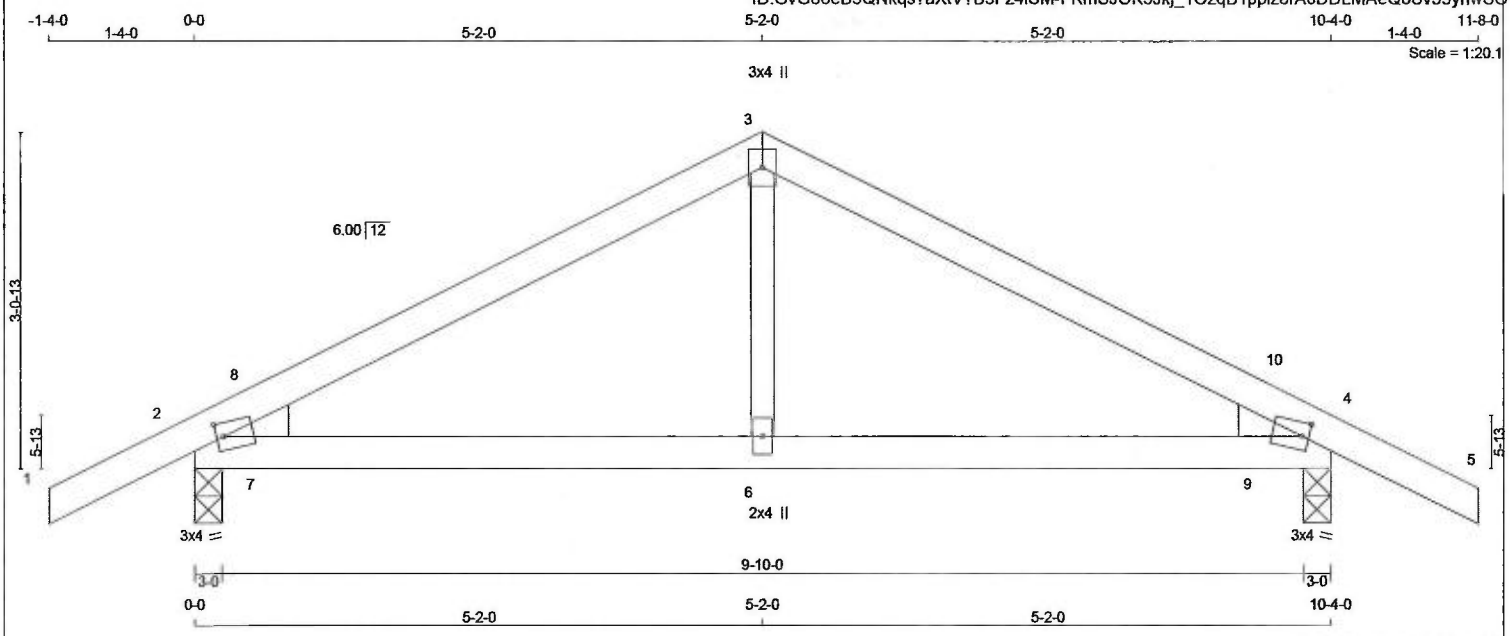


TOTAL WEIGHT = 2 X 32 = 64 lb [M][F]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 1 - 3 | 2x4 | DRY | No.2 | SPF |
| 3 - 5 | 2x4 | DRY | No.2 | SPF |
| 2 - 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 | TMBH1-m | MT20 | 3.0 | 4.0 | 1.50 | 0.75 |
| 3 | TTW+p | MT20 | 3.0 | 4.0 | | |
| 4 | TMBH1-m | MT20 | 3.0 | 4.0 | 1.50 | 0.75 |
| 6 | BMW+w | MT20 | 2.0 | 4.0 | | |

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

**BEARINGS**

| JT | FACTORED GROSS REACTION VERT | HORZ | MAXIMUM FACTORED GROSS REACTION DOWN | HORZ | UPLIFT | INPUT BRG IN-SX | REQRD BRG IN-SX | HEEL WEDGE |
|---|---|---|---|---|---|---|---|---|
| 2 | 598 | 0 | 598 | 0 | 0 | 3-0 | 3-0 | 2x4 L |
| 4 | 598 | 0 | 598 | 0 | 0 | 3-0 | 3-0 | 2x4 R |

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| 2 | 417 | 306 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 112 / 0 | 0 / 0 |
| 4 | 417 | 306 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 112 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 2, 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 | 0 / 19 | -77.4 | -77.4 | 0.11 (1) | 10.00 | 6- 3 | 0 / 183 | 0.04 (1) |
| 2- 8 | -561 / 0 | -77.4 | -77.4 | 0.08 (1) | 6.25 | 7- 8 | -196 / 29 | 0.00 (1) |
| 8- 3 | -567 / 0 | -77.4 | -77.4 | 0.22 (1) | 6.25 | 9-10 | -196 / 29 | 0.00 (1) |
| 3-10 | -567 / 0 | -77.4 | -77.4 | 0.22 (1) | 6.25 | | | |
| 10- 4 | -561 / 0 | -77.4 | -77.4 | 0.08 (1) | 6.25 | | | |
| 4- 5 | 0 / 19 | -77.4 | -77.4 | 0.11 (1) | 10.00 | | | |
| 2- 7 | 0 / 501 | -17.5 | -17.5 | 0.24 (1) | 10.00 | | | |
| 7- 6 | 0 / 501 | -17.5 | -17.5 | 0.24 (1) | 10.00 | | | |
| 6- 9 | 0 / 501 | -17.5 | -17.5 | 0.24 (1) | 10.00 | | | |
| 9- 4 | 0 / 501 | -17.5 | -17.5 | 0.24 (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 (0.34")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.34")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.04")

CSI: TC=0.22/1.00 (3-10:1) , BC=0.24/1.00 (6-9:1) , WB=0.04/1.00 (3-6:1) , SSI=0.15/1.00 (2-7:1)

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= 0.72 (2) (INPUT = 0.90 )
JSI METAL= 0.23 (4) (INPUT = 1.00 )

LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
PROVINCE OF ONTARIO
Aug 14, 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. |
|---|---|---|---|---|---|
| NE0818-073 | T13 | 1 | 1 | GREENPARK-MINNISLAE HOMES-GRANDBROOKE 2 EL 3 | **PAGE 33 OF 38** |
| | | | | TRUSS DESC. | |

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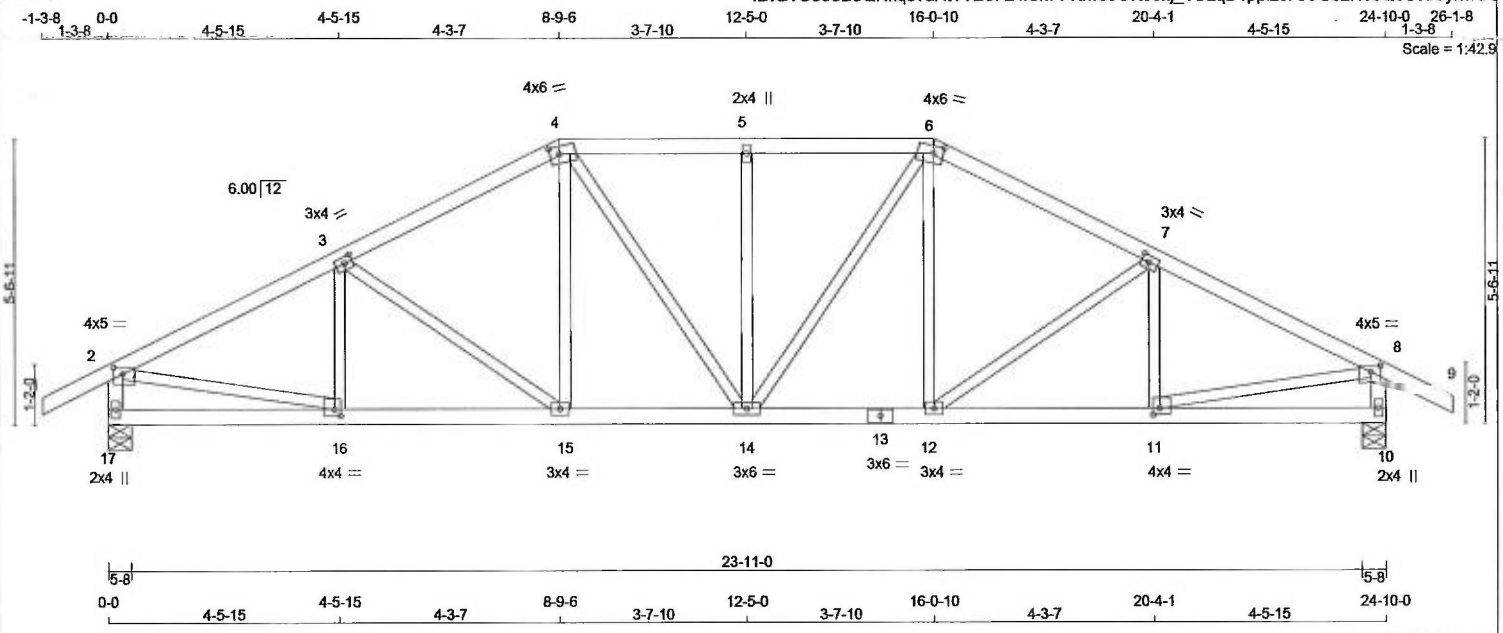


TOTAL WEIGHT = 106 lb [M][F]

**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 - 9 | 2x4 | DRY | No.2 | SPF |
| 17 - 2 | 2x4 | DRY | No.2 | SPF |
| 10 - 8 | 2x4 | DRY | No.2 | SPF |
| 17 - 13 | 2x4 | DRY | No.2 | SPF |
| 13 - 10 | 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 | 1.50 | 2.25 |
| 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 | TTWW-m | MT20 | 4.0 | 6.0 | 1.75 | 2.25 |
| 7 | TMWW-t | MT20 | 3.0 | 4.0 | 1.50 | 1.75 |
| 8 | TMVW-p | MT20 | 4.0 | 5.0 | 1.50 | 2.25 |
| 10 | BMV1+p | MT20 | 2.0 | 4.0 | | |
| 11 | BMWW-t | MT20 | 4.0 | 4.0 | 1.50 | 1.50 |
| 12 | BMWW-t | MT20 | 3.0 | 4.0 | | |
| 13 | BS-t | MT20 | 3.0 | 6.0 | | |
| 14 | BMWWW-t | MT20 | 3.0 | 6.0 | | |
| 15 | BMWW-t | MT20 | 3.0 | 4.0 | | |
| 16 | BMWW-t | MT20 | 4.0 | 4.0 | 1.50 | 1.50 |
| 17 | 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 |
|---|---|---|---|---|---|---|---|
| 17 | 1283 | 0 | 1283 | 0 | 0 | 5-8 | 5-8 |
| 10 | 1283 | 0 | 1283 | 0 | 0 | 5-8 | 5-8 |

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| 17 | 898 | 641 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 256 / 0 | 0 / 0 |
| 10 | 898 | 641 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 256 / 0 | 0 / 0 |

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

**BRACING**

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.02 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

**LOADING**

TOTAL LOAD CASES: (4)

| CHORDS MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) FROM | TO | LC1 MAX CSI (LC) | MAX. UNBRAC LENGTH |
|---|---|---|---|---|---|
| 1- 2 | 0 / 23 | -77.4 | -77.4 | 0.10 (1) | 10.00 |
| 2- 3 | -1611 / 0 | -77.4 | -77.4 | 0.21 (1) | 5.02 |
| 3- 4 | -1442 / 0 | -77.4 | -77.4 | 0.20 (1) | 5.24 |
| 4- 5 | -1412 / 0 | -77.4 | -77.4 | 0.14 (1) | 5.35 |
| 5- 6 | -1412 / 0 | -77.4 | -77.4 | 0.14 (1) | 5.35 |
| 6- 7 | -1442 / 0 | -77.4 | -77.4 | 0.20 (1) | 5.24 |
| 7- 8 | -1611 / 0 | -77.4 | -77.4 | 0.21 (1) | 5.02 |
| 8- 9 | 0 / 23 | -77.4 | -77.4 | 0.10 (1) | 10.00 |
| 17- 2 | -1247 / 0 | 0.0 | 0.0 | 0.13 (1) | 7.19 |
| 10- 8 | -1247 / 0 | 0.0 | 0.0 | 0.13 (1) | 7.19 |
| 17-16 | 0 / 0 | -17.5 | -17.5 | 0.08 (4) | 10.00 |
| 16-15 | 0 / 1456 | -17.5 | -17.5 | 0.27 (1) | 10.00 |
| 15-14 | 0 / 1277 | -17.5 | -17.5 | 0.24 (1) | 10.00 |
| 14-13 | 0 / 1277 | -17.5 | -17.5 | 0.24 (1) | 10.00 |
| 13-12 | 0 / 1277 | -17.5 | -17.5 | 0.24 (1) | 10.00 |
| 12-11 | 0 / 1456 | -17.5 | -17.5 | 0.27 (1) | 10.00 |
| 11-10 | 0 / 0 | -17.5 | -17.5 | 0.08 (4) | 10.00 |

| WEBS MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
|---|---|---|
| 16- 3 | -198 / 16 | 0.04 (1) |
| 3-15 | -224 / 0 | 0.11 (1) |
| 15- 4 | 0 / 205 | 0.05 (1) |
| 4-14 | 0 / 237 | 0.05 (1) |
| 14- 5 | -337 / 0 | 0.16 (1) |
| 14- 6 | 0 / 237 | 0.05 (1) |
| 12- 6 | 0 / 205 | 0.05 (1) |
| 12- 7 | -224 / 0 | 0.11 (1) |
| 11- 7 | -198 / 16 | 0.04 (1) |
| 2-16 | 0 / 1482 | 0.33 (1) |
| 11- 8 | 0 / 1482 | 0.33 (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 (0.83")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.83")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.10")

CSI: TC=0.21/1.00 (7-8:1) , BC=0.27/1.00 (11-12:1) , WB=0.33/1.00 (8-11:1) , SSI=0.15/1.00 (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= 0.88 (14) (INPUT = 0.90 )
JSI METAL= 0.55 (16) (INPUT = 1.00 )

KOTT

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | DRWG NO. |
|---|---|---|---|---|---|
| NE0818-073 | T14 | 1 | 1 | GREENPARK-MINNISLAE HOMES-GRANDBROOKE 2 EL 3 | **PAGE 34 OF 38** |
| | | | | TRUSS DESC. | |

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Tue Aug 14 14:09:42 2018 Page 1
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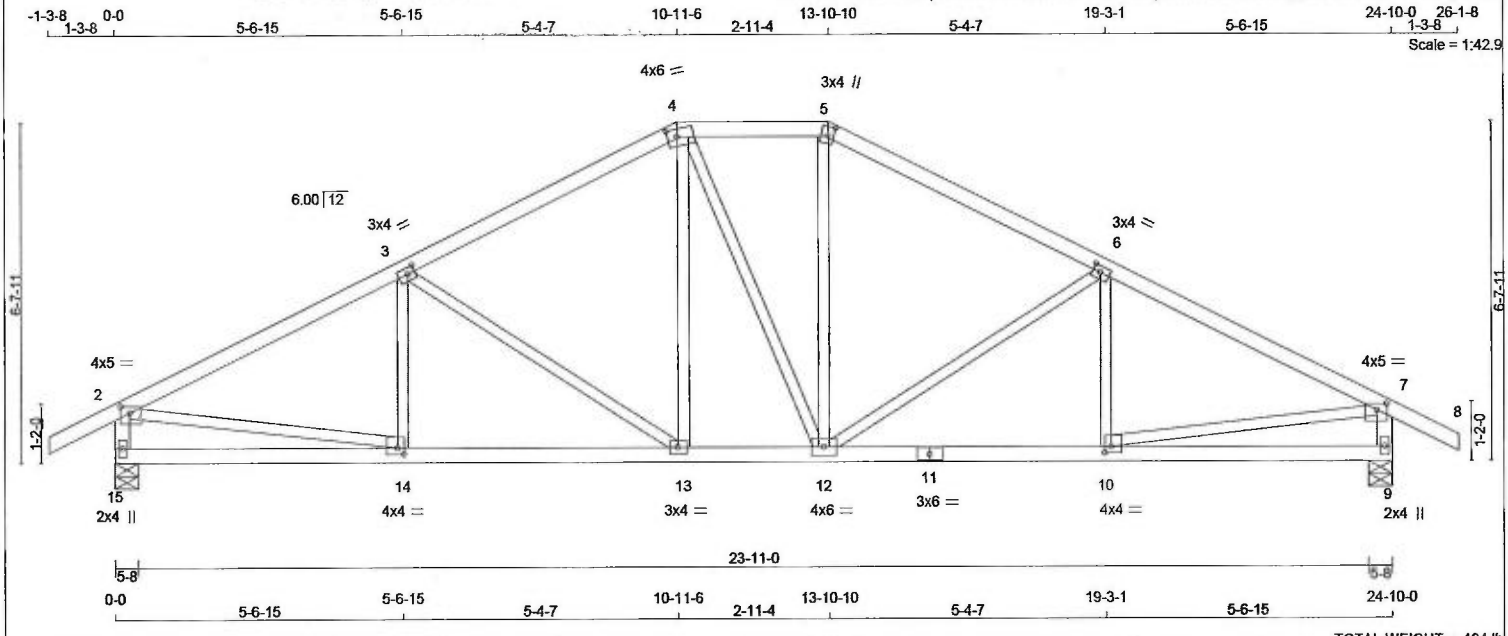


TOTAL WEIGHT = 104 lb [M][F]

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

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 1 - 4 | 2x4 | DRY | No.2 | SPF |
| 4 - 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 - 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 | TMVW-p | MT20 | 4.0 | 5.0 | 1.50 | 2.25 |
| 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 | TTW+m | MT20 | 3.0 | 4.0 | 2.25 | 1.25 |
| 6 | TMWW-t | MT20 | 3.0 | 4.0 | 1.50 | 1.75 |
| 7 | TMVW-p | MT20 | 4.0 | 5.0 | 1.50 | 2.25 |
| 9 | BMV1+p | MT20 | 2.0 | 4.0 | | |
| 10 | BMWW-t | MT20 | 4.0 | 4.0 | 1.50 | 1.50 |
| 11 | BS-t | MT20 | 3.0 | 6.0 | | |
| 12 | BMWWW-t | MT20 | 4.0 | 6.0 | | |
| 13 | BMWW-t | MT20 | 3.0 | 4.0 | | |
| 14 | BMWW-t | MT20 | 4.0 | 4.0 | 1.50 | 1.50 |
| 15 | 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 |
|---|---|---|---|---|---|---|---|
| 15 | 1283 | 0 | 1283 | 0 | 0 | 5-8 | 5-8 |
| 9 | 1283 | 0 | 1283 | 0 | 0 | 5-8 | 5-8 |

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|---|---|---|---|---|---|---|---|
| 15 | 898 | 641 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 256 / 0 | 0 / 0 |
| 9 | 898 | 641 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 256 / 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 = 4.84 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 / 23 | -77.4 | -77.4 | 0.10 (1) | 10.00 | 14-3 | -121 / 59 | 0.03 (1) |
| 2-3 | -1636 / 0 | -77.4 | -77.4 | 0.34 (1) | 4.84 | 3-13 | -417 / 0 | 0.33 (1) |
| 3-4 | -1294 / 0 | -77.4 | -77.4 | 0.31 (1) | 5.32 | 13-4 | 0 / 297 | 0.07 (1) |
| 4-5 | -1142 / 0 | -77.4 | -77.4 | 0.10 (1) | 5.85 | 4-12 | 0 / 3 | 0.00 (1) |
| 5-6 | -1295 / 0 | -77.4 | -77.4 | 0.31 (1) | 5.32 | 12-5 | 0 / 300 | 0.07 (1) |
| 6-7 | -1636 / 0 | -77.4 | -77.4 | 0.34 (1) | 4.84 | 12-6 | -415 / 0 | 0.33 (1) |
| 7-8 | 0 / 23 | -77.4 | -77.4 | 0.10 (1) | 10.00 | 10-6 | -122 / 58 | 0.03 (1) |
| 15-2 | -1242 / 0 | 0.0 | 0.0 | 0.13 (1) | 7.20 | 2-14 | 0 / 1501 | 0.34 (1) |
| 9-7 | -1241 / 0 | 0.0 | 0.0 | 0.13 (1) | 7.20 | 10-7 | 0 / 1500 | 0.34 (1) |
| 15-14 | 0 / 0 | -17.5 | -17.5 | 0.13 (4) | 10.00 | | | |
| 14-13 | 0 / 1483 | -17.5 | -17.5 | 0.30 (1) | 10.00 | | | |
| 13-12 | 0 / 1141 | -17.5 | -17.5 | 0.22 (1) | 10.00 | | | |
| 12-11 | 0 / 1483 | -17.5 | -17.5 | 0.29 (1) | 10.00 | | | |
| 11-10 | 0 / 1483 | -17.5 | -17.5 | 0.29 (1) | 10.00 | | | |
| 10-9 | 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**

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 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.83")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.11")

CSI: TC=0.34/1.00 (2-3:1) , BC=0.30/1.00 (13-14:1) , WB=0.34/1.00 (2-14:1) , SSI=0.18/1.00 (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 (2) (INPUT = 0.90 )
JSI METAL= 0.56 (14) (INPUT = 1.00 )

KOTT

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | DRWG NO. |
|---|---|---|---|---|---|
| NE0818-073 | T15 | 20 | 1 | GREENPARK-MINNISLAE HOMES-GRANDBROOKE 2 EL 3 | PAGE 35 OF 38 |

TRUSS DESC.

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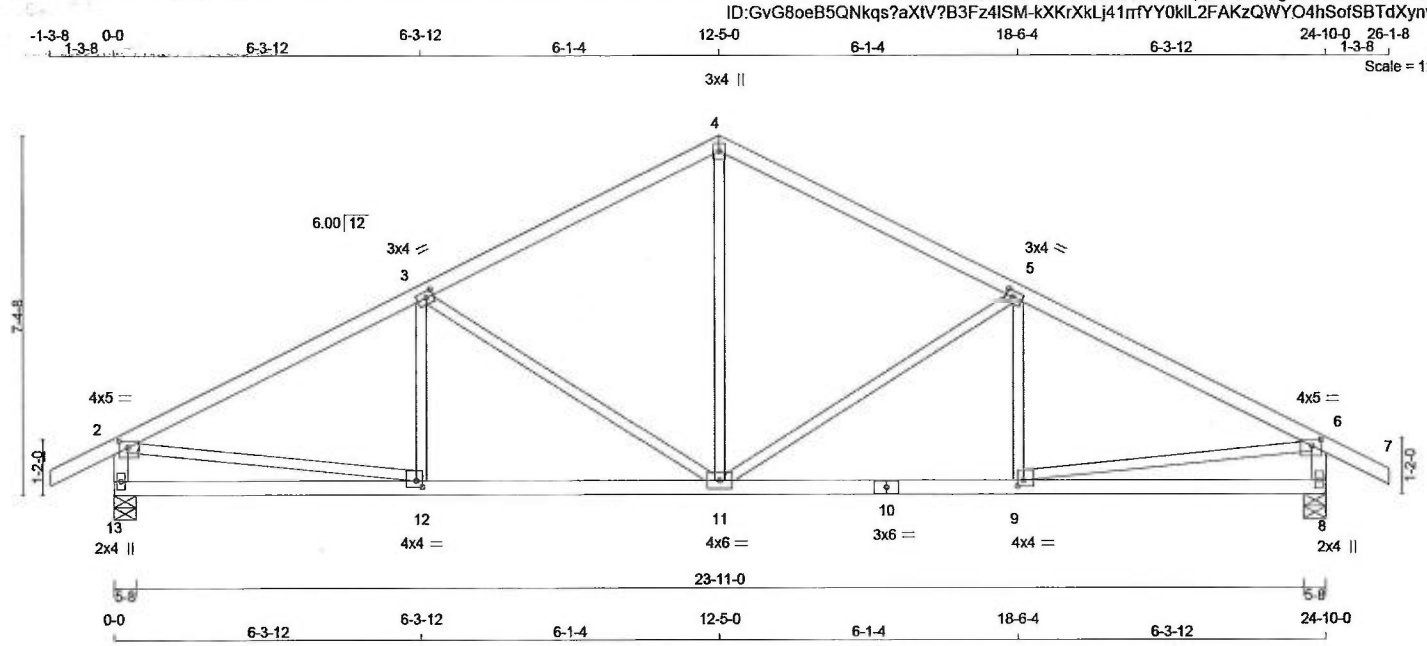



TOTAL WEIGHT = 20 X 98 = 1958 lb

[M][F]

**LUMBER**

N. L. G. A. RULES

| CHORDS | SIZE | | LUMBER | DESCR. |
|---|---|---|---|---|
| 1 - 4 | 2x4 | DRY | No.2 | SPF |
| 4 - 7 | 2x4 | DRY | No.2 | SPF |
| 13 - 2 | 2x4 | DRY | No.2 | SPF |
| 8 - 6 | 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 |
|---|---|---|---|---|---|---|
| 2 | TMVW-p | MT20 | 4.0 | 5.0 | 1.50 | 2.25 |
| 3 | TMWW-t | MT20 | 3.0 | 4.0 | 1.50 | 1.75 |
| 4 | TTW+p | MT20 | 3.0 | 4.0 | | |
| 5 | TMWW-t | MT20 | 3.0 | 4.0 | 1.50 | 1.75 |
| 6 | TMVW-p | MT20 | 4.0 | 5.0 | 1.50 | 2.25 |
| 8 | BMV1+p | MT20 | 2.0 | 4.0 | | |
| 9 | BMWW-t | MT20 | 4.0 | 4.0 | 1.50 | 1.50 |
| 10 | BS-t | MT20 | 3.0 | 6.0 | | |
| 11 | BMWWW-t | MT20 | 4.0 | 6.0 | | |
| 12 | BMWW-t | MT20 | 4.0 | 4.0 | 1.50 | 1.50 |
| 13 | BMV1+p | MT20 | 2.0 | 4.0 | | |

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

**BEARINGS**

| | FACTORED GROSS REACTION | | MAXIMUM FACTORED GROSS REACTION | | | INPUT BRG | REQRD BRG |
|---|---|---|---|---|---|---|---|
| JT | VERT | HORZ | DOWN | HORZ | UPLIFT | IN-SX | IN-SX |
| 13 | 1283 | 0 | 1283 | 0 | 0 | 5-8 | 5-8 |
| 8 | 1283 | 0 | 1283 | 0 | 0 | 5-8 | 5-8 |

**UNFACTORED REACTIONS**

| | 1ST LCASE | MAX./MIN. COMPONENT REACTIONS | | | | | |
|---|---|---|---|---|---|---|---|
| JT | COMBINED | SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
| 13 | 898 | 641 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 256 / 0 | 0 / 0 |
| 8 | 898 | 641 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 256 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 13, 8

**BRACING**

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.71 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 / 23 | -77.4 | -77.4 | 0.10 (1) | 10.00 | 11- 4 | 0 / 686 | 0.15 (1) |
| 2- 3 | -1633 / 0 | -77.4 | -77.4 | 0.44 (1) | 4.71 | 11- 5 | -528 / 0 | 0.55 (1) |
| 3- 4 | -1191 / 0 | -77.4 | -77.4 | 0.40 (1) | 5.36 | 9- 5 | -84 / 78 | 0.03 (4) |
| 4- 5 | -1191 / 0 | -77.4 | -77.4 | 0.40 (1) | 5.36 | 3-11 | -528 / 0 | 0.55 (1) |
| 5- 6 | -1633 / 0 | -77.4 | -77.4 | 0.44 (1) | 4.71 | 12- 3 | -84 / 78 | 0.03 (4) |
| 6- 7 | 0 / 23 | -77.4 | -77.4 | 0.10 (1) | 10.00 | 2-12 | 0 / 1497 | 0.34 (1) |
| 13- 2 | -1236 / 0 | 0.0 | 0.0 | 0.12 (1) | 7.22 | 9- 6 | 0 / 1497 | 0.34 (1) |
| 8- 6 | -1236 / 0 | 0.0 | 0.0 | 0.12 (1) | 7.22 | | | |
| 13-12 | 0 / 0 | -17.5 | -17.5 | 0.16 (4) | 10.00 | | | |
| 12-11 | 0 / 1483 | -17.5 | -17.5 | 0.31 (1) | 10.00 | | | |
| 11-10 | 0 / 1483 | -17.5 | -17.5 | 0.31 (1) | 10.00 | | | |
| 10- 9 | 0 / 1483 | -17.5 | -17.5 | 0.31 (1) | 10.00 | | | |
| 9- 8 | 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 (0.83")
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=0.44/1.00 (5-6:1) , BC=0.31/1.00 (9-11:1) , WB=0.55/1.00 (5-11:1) , 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

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 (2) (INPUT = 0.90 )
JSI METAL= 0.56 (12) (INPUT = 1.00 )

LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
PROVINCE OF ONTARIO
Aug 14, 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

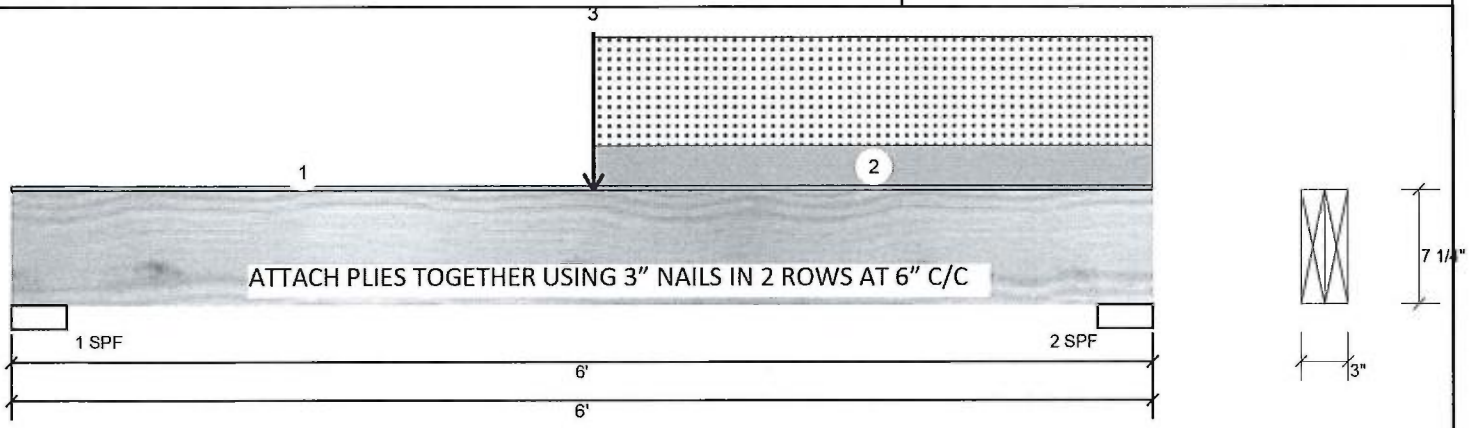
**EWP Studio**
Simpson Strong-Tie®
Component Solutions™

Client: NE0818-073
Project: GREENPARK-MINNISLAE
Address: HOMES-GRANDBROOKE 2 EL

Date: 6/19/2018
Designer: B B
Job Name: B1
Project #:

# B1 S-P-F #2 2.000" X 8.000" 2-Ply - PASSED

Level: Level




## Member Information

| | | | |
|---|---|---|---|
| Type: | Girder | Application: | Roof (Residential) |
| Plies: | 2 | Slope: | 0/12 |
| Moisture Condition: | Dry | Design Method: | LSD |
| Deflection LL: | 480 | Building Code: | NBCC 2010 / OBC 2012 |
| Deflection TL: | 240 | Load Sharing: | No |
| Importance: | Normal | Deck: | Not Checked |
| | | Vibration: | Not Checked |

## Unfactored Reactions UNPATTERNED lb (Uplift)

| Brg | Live | Dead | Snow | Wind |
|---|---|---|---|---|
| 1 | 0 | 220 | 463 | 0 |
| 2 | 0 | 359 | 838 | 0 |

## Bearings and Factored Reactions

| Bearing | Length | Cap. | React D/L lb | Total | Ld. Case | Ld. Comb. |
|---|---|---|---|---|---|---|
| 1 - SPF | 3.500" | 15% | 275 / 695 | 970 | L | 1.25D+1.5S |
| 2 - SPF | 3.500" | 26% | 448 / 1257 | 1705 | L | 1.25D+1.5S |

## Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|---|---|---|---|---|---|---|
| Moment | 2690 ft-lb | 3' 3/4" | 4047 ft-lb | 0.665 (66%) | 1.25D+1.5S | L |
| Unbraced | 2690 ft-lb | 3' 3/4" | 4024 ft-lb | 0.669 (67%) | 1.25D+1.5S | L |
| Shear | 1330 lb | 5'2" | 3406 lb | 0.391 (39%) | 1.25D+1.5S | L |
| LL Defl inch | 0.048 (L/1398) | 3'1 1/16" | 0.139 (L/480) | 0.340 (34%) | S | L |
| TL Defl inch | 0.069 (L/970) | 3'1" | 0.277 (L/240) | 0.250 (25%) | D+S | L |

## Design Notes

1 Girders are designed to be supported on the bottom edge only.
2 Multiple plies must be fastened together as per manufacturer's details.
3 Top loads must be supported equally by all plies.
4 Top braced at bearings.
5 Bottom braced at bearings.
6 Lateral slenderness ratio based on full section width.

LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
PROVINCE OF ONTARIO
Aug 14, 2018

| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Uniform | | | Top | 10 PLF | 0 PLF | 0 PLF | 0 PLF | |
| 2 | Part. Uniform | 3-0-12 to 6-0-0 | | Top | 82 PLF | 0 PLF | 223 PLF | 0 PLF | |
| 3 | Point | 3-0-12 | | Top | 278 lb | 0 lb | 646 lb | 0 lb | |

**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.**

Manufacturer Info

KOTT

Kott Group
14 Anderson Blvd., On
L4A7X4
905-642-4400

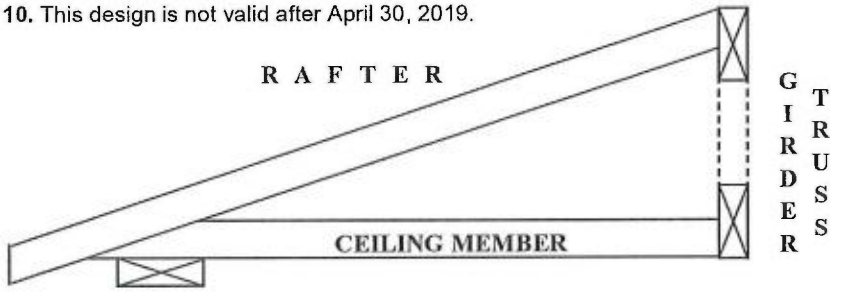
## BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

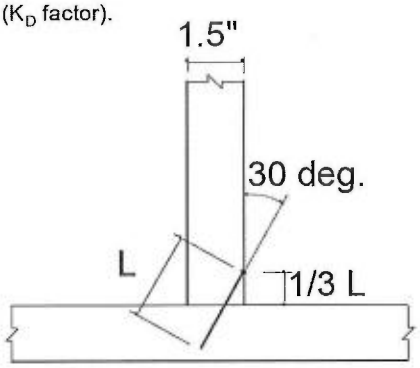
B37579H1

| 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 |

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LICENSED PROFESSIONAL ENGINEER
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PROVINCE OF ONTARIO

April 26, 2017

## BEARING ANCHORAGE BY TOE-NAILS FOR WIND LOADING B37579H2

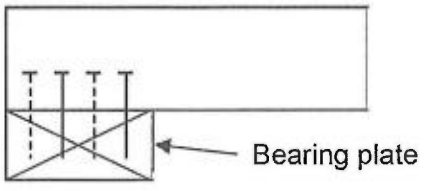
| NAIL TYPE | LENGTH (IN) | DIAMETER (IN) | NAIL WITHDRAWAL CAPACITY (LB) | |
|---|---|---|---|---|
| | | | S-P-F | D. FIR |
| COMMON WIRE | 3.00 | 0.144 | 30 | 42 |
| | 3.25 | 0.144 | 32 | 45 |
| | 3.50 | 0.160 | 38 | 52 |

Note: If using truss with D. Fir lumber and S-P-F bearing plate, use values in table for S-P-F.

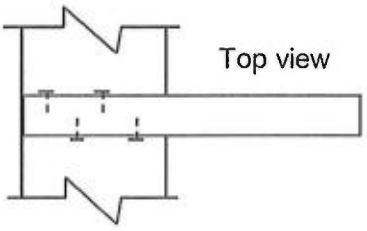
NOTES:

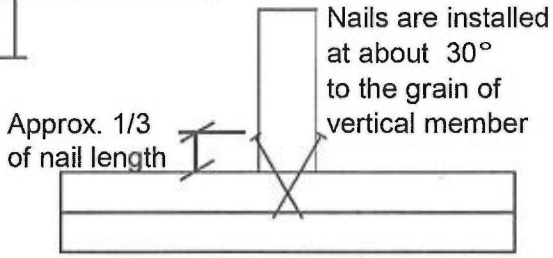
1. Truss chord, rafter, or ceiling members may be anchored to bearing plate by toe-nails, provided that the actual factored uplift force due to **wind or earthquake** load does not exceed the withdrawal capacities in the table. Hangers (specified by others) are required for uplift forces that are higher 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



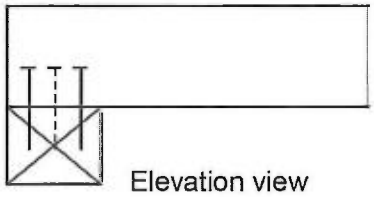

Elevation view



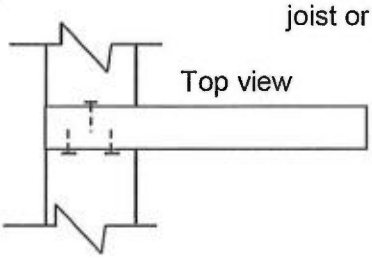




Toe-nailing viewed from end of joist or truss

Toe-nailing on 2x4 Bearing Plate



Elevation view

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