

Engineering Note Page (ENP-2)

REVISION 2009-10-09

Please read all notes prior to installation of the component

DESIGN INFORMATION

This building component is certified as an individual component for the loads and conditions shown on the calculation and drawing page.

The responsibility of the undersigned engineer is only limited to the calculation of this building component for the loads and conditions shown on this drawing.

The responsibility of the undersigned is limited to the verification of the structural capacity of the NASCOR floor joists and LVL beams based on placement as shown on the layout. The loads applied are limited to the gravity effects of the specified loads. The structural integrity of the building and the effect of wind, uplift, seismic, lateral or other forces, calculation of adequate support and anchorage of components, as well as the dimensions and design loads used to calculate components are the responsibility of the overall building designer.

Floor joists and OSB rim board are designed to carry uniformly distributed loads only. Point loads should be transferred through the floor cavity with squash blocks. Structural elements such as walls, posts, connectors, and squash blocks are the responsibility of the overall building designer.

The undersigned engineer disclaims any responsibility for damages as a result of being furnished faulty or incorrect information, specifications and/or designs.

Installation of NASCOR joists is to be carried out in accordance with the current edition of the manufacturer's approved literature available at <http://www.nascor.ca>.

CODE

This building component is designed in accordance with the National Building Code of Canada, the Ontario Building Code, CCMC and Canadian Standards Association guidelines.

COMPONENT

1. The building component used in construction must be the same as indicated on the drawings.
2. The building component must be installed and assembled as per specification shown on the drawing and in accordance with the manufacturer's assembly and installation.
3. Members consisting of multiple plies must be connected as per the document "Multi-ply Connection Details".
4. Pass-thru squash block framing is required at all point loads over bearings.

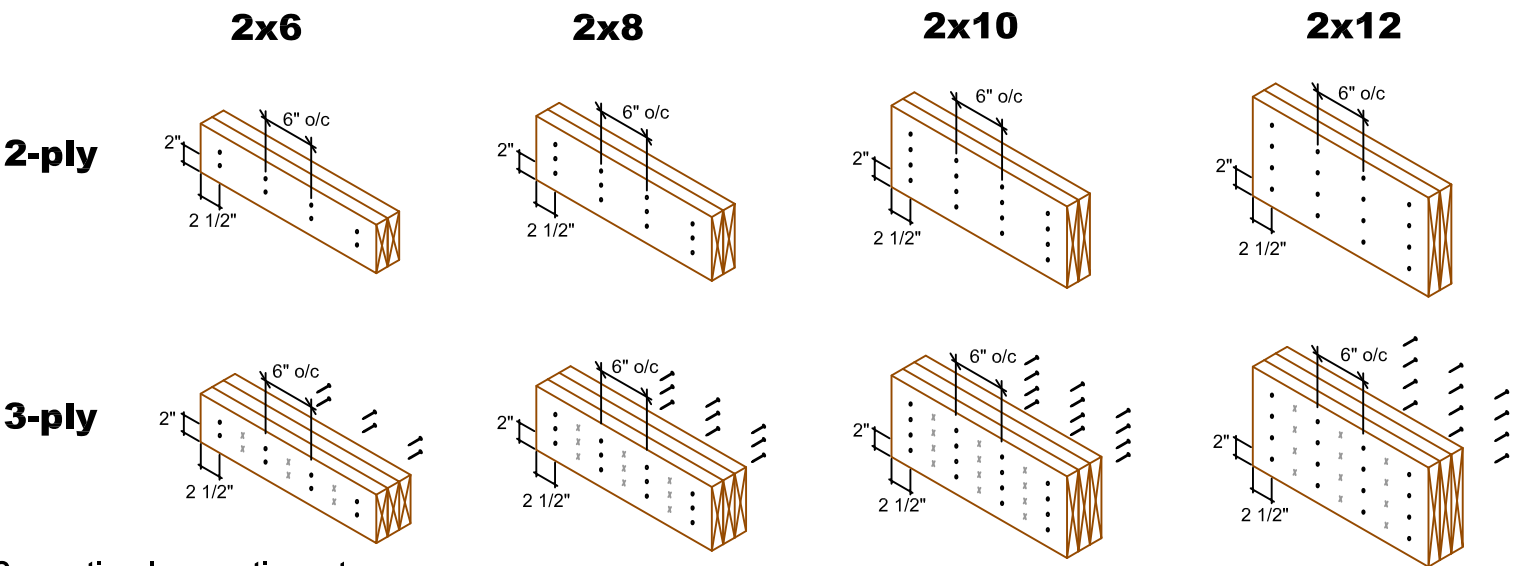
HANDLING AND INSTALLATION

Do not drill any hole, cut or notch a certified building component without a written pre-authorization.

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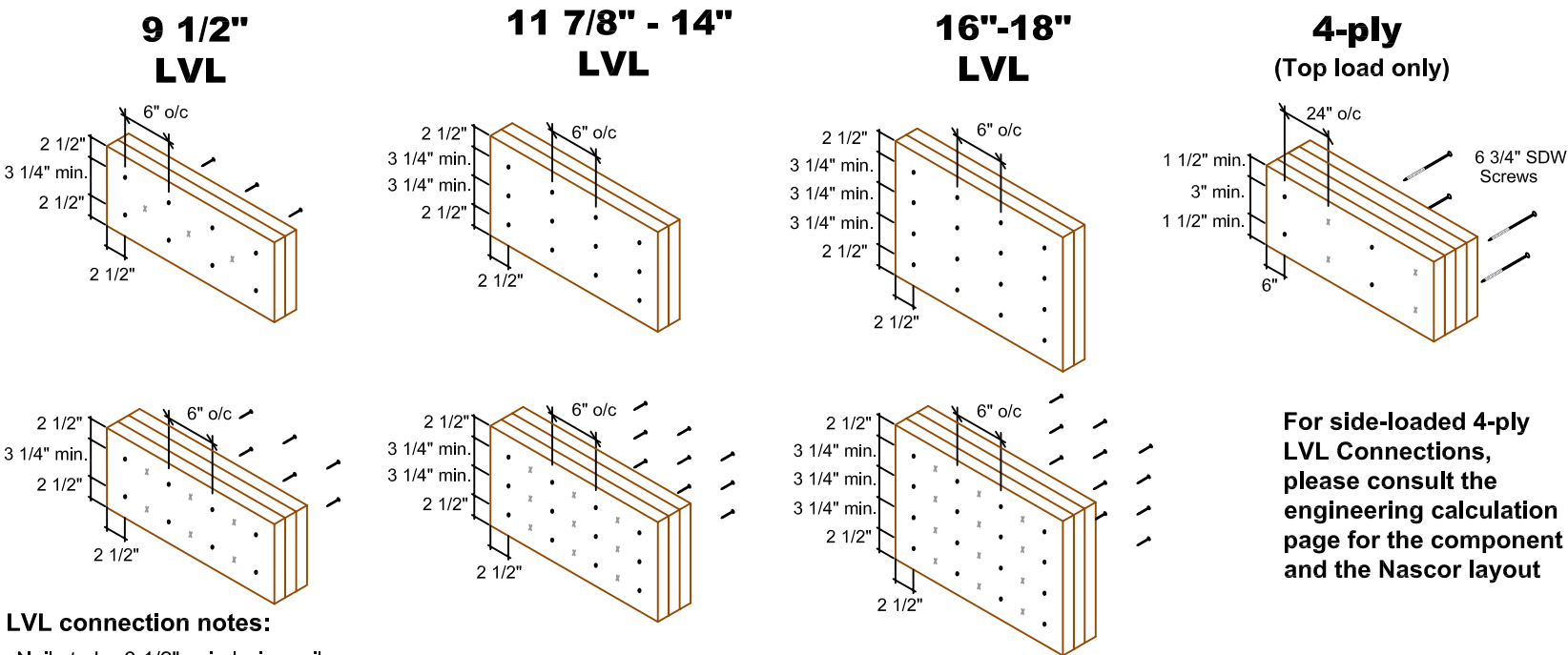
MULTIPLE MEMBER CONNECTIONS

Conventional Connections (for uniform distributed loads)



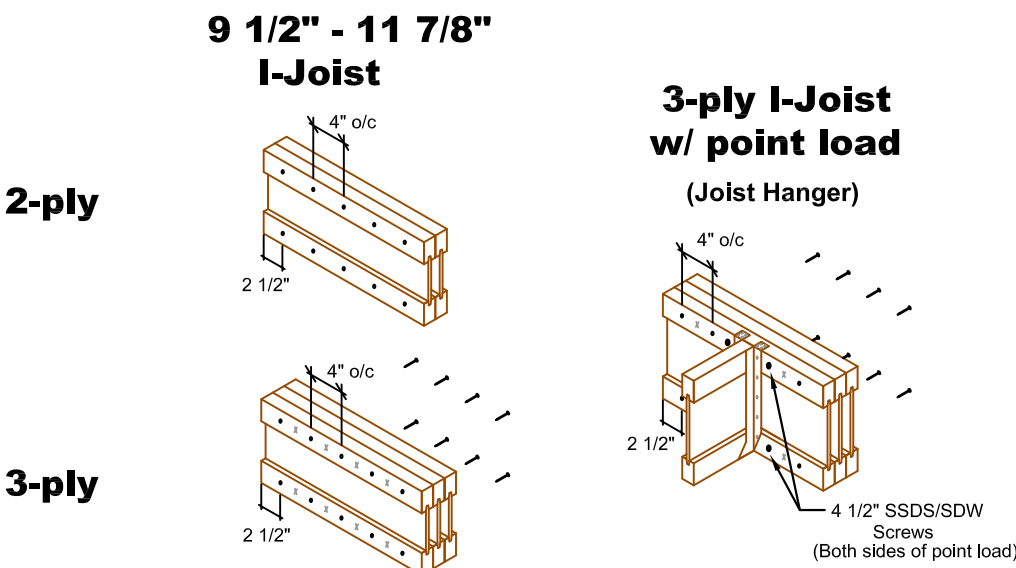
- Conventional connection notes:**
- Nails to be 3" 10d spiral wire nails.
 - Nails to be located a minimum of 2" from the top and bottom of the member. Start all nails a minimum of 2 1/2" in from ends.
 - Number of rows and spacing as per details shown, unless noted otherwise.
 - "X" represents nail driven from the opposite side.

LVL Connections (for uniform distributed loads)



- LVL connection notes:**
- Nails to be 3 1/2" spiral wire nails.
 - Nails to be located a minimum of 2 1/2" from the top and bottom of the member. Start all nails a minimum of 2 1/2" in from ends.
 - Minimum 3 1/4" spacing between rows.
 - Number of rows and spacing as per details shown, unless noted otherwise.
 - "X" represents nail or screw driven from the opposite side.

Vertical I-Joist Connections (for uniform distributed loads)



- Vertical I-Joist connection notes:**
- Nails to be 3" spiral wire nails.
 - Nails to be located at centre of top and bottom flanges. Start all nails a minimum of 2 1/2" in from ends.
 - Number of rows and spacing as per details shown, unless noted otherwise.
 - "X" represents nail driven from the opposite side.

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**MULTI -PLY
CONNECTION
DETAILS**

Date: November 30, 2016

Scale: NTS

KOTT
3228 Moodie Drive
Ottawa, ON
K2H 7V1
Ph: 613-838-2775
Fx: 613-838-4751

----- Floor Framing Material -----

| Type | Qty. | Product | |
|------|------|-------------------------------------|--------|
| G1 | 2 | 1 3/4x11 7/8 West Fraser 2.0E-3100F | 10' 0" |
| G2 | 1 | 1 3/4x11 7/8 West Fraser 2.0E-3100F | 4' 0" |
| G3 | 2 | NJ12 | 4' 0" |
| G4 | 2 | NJ12 | 4' 0" |
| G5 | 2 | NJ12 | 4' 0" |
| G6 | 2 | NJ12 | 20' 0" |
| G7 | 2 | NJ12 | 20' 0" |
| G8 | 2 | NJ12 | 20' 0" |
| G9 | 2 | NJ12 | 20' 0" |
| G10 | 2 | NJ12 | 20' 0" |
| G11 | 2 | NJ12 | 20' 0" |
| J1 | 34 | NJ60H12 | 18' 0" |
| J2 | 1 | NJ40U12 | 6' 0" |
| J3 | 17 | NJ40U12 | 18' 0" |
| J4 | 2 | NJH12 | 18' 0" |
| J5 | 1 | NJH12 | 12' 0" |
| J6 | 1 | NJH12 | 10' 0" |
| J7 | 1 | NJH12 | 8' 0" |
| J8 | 1 | NJH12 | 6' 0" |
| J9 | 5 | NJH12 | 4' 0" |
| R1 | 15 | 11 7/8" RIMBOARD | 12' 0" |

All product names are trademarks of their respective owners.

- NOTES:
1. Framers to verify dimensions on the architectural drawings.
 2. Double joist only require filler/backer ply when supporting another member using a face-mounted hanger.
 3. Install 2x4 blocking @ 24" o/c under parallel non-loadbearing walls.
 4. Install single-ply flush window header along inside face of rimboard/rimjoist.
 5. Refer to Nascor specifier guide for installation details.
 6. Squash blocks recommended to be installed at end bearing on all first level joists which support loading from above exceeding two levels floor or roof.
 7. Load transfer blocks to be installed under all point loads.
 8. It shall be the framer's responsibility that floor joists and beams are fastened as per the hanger manufacturer's standards.

DESIGN ASSUMPTIONS

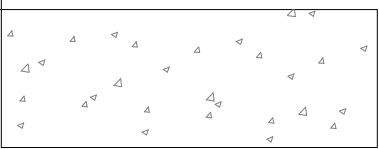
Floor Loads:
T/C Live: 40 psf B/C Live: 0 psf
T/C Dead: 15 psf B/C Dead: 0 psf
Load Case: Live

Deflection Criteria: L/480 Live L/360 Total
Building Code: OBC-2012 (Limit States Design)

Building Type: Residential Importance Category: Normal(Part 9)
Design assumes top edge continuously braced, and bottom edge unbraced.
Joist Design Includes CCMC Vibration Check
Subfloor: 3/4" OSB/Glued and Nailed
Ceiling: (None)
Blocking: (None)

Reported Reactions are UN-FACTORED Loads

SB : SQUASH BLOCK ON BOTH SIDES OF GIRDER
(CUT 1/16" LONGER THAN JOISTS DEPTH)



HATCH AREA INDICATED REPRESENTS
CERAMIC TILED FLOOR WITH AN
ADDITIONAL DEAD LOAD OF 5.00 PSF

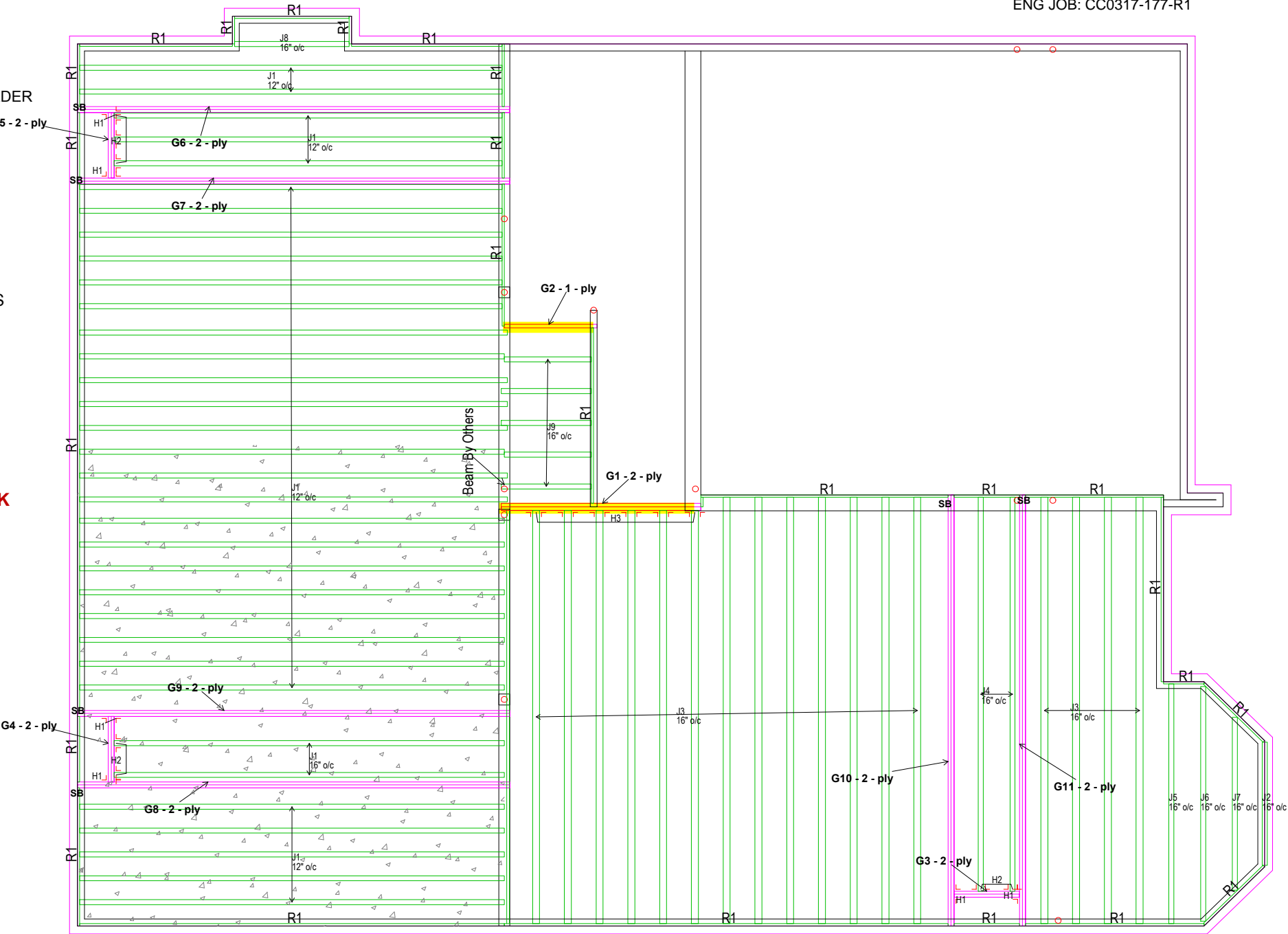
Refer to Multiple Member Connection
Detail to ply to ply nailing or bolting
requirements.

PASS-THRU FRAMING SQUASH BLOCK
IS REQUIRED AT ALL POINT LOADS
OVER BEARINGS.


----- Connector List -----

| ID# | Qty. | Model Number |
|-----|------|--------------|
| H1 | 6 | LT2-151188 |
| H2 | 7 | LT251188 |
| H3 | 6 | LT351188 |

Rim parallel to joists: 1-1/8" rimboard with
2"x4" block (1/16" longer than rim depth) @ 16" o/c.
All other components and structural elements supporting
the floor system such as beams, walls, columns and
foundation walls and footings including anchorage of
components and bracing for lateral stability are the
responsibility of others.



FIRST FLOOR FRAMING



TOWN OF MILTON

PLANNING AND DEVELOPMENT

JUNIPER 7 MODEL

BUILDING: REVIEWED

SCOTT SHERRIFFS

PLANS EXAMINER

APR 11, 2017

DATE

Neither the issuance of a permit nor carrying out of inspections by the Town of Milton relieves the owner from full responsibility for compliance with the provisions of the Ontario Building Code Act and the Ontario Building Code, both as amended, as well as other applicable statutes and regulations of the Province of Ontario, By-laws of the Region of Halton and Town of Milton

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MAR 29, 2017

JUNIPER 7

BUILDING DIVISION



Nascor by KOTT
14 Anderson Blvd.
Uxbridge, ON.
www.nascor.ca

Project Tag:

JUNIPER 7 EL - 1

GREEN PARK HOMES
LECCO RIDGE
MILTON, ON

SALESMAN: RM

Time: 2:41:57 PM
DATE: 10/28/2016
Designer: SB
Not Scaled
License Name:
KEYMARK ENTERPRISES, INC.

----- Floor Framing Material -----

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| G8 | 2 | NJ12 | 20' 0" |
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| G11 | 2 | NJ12 | 20' 0" |
| J1 | 34 | NJ60H12 | 18' 0" |
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DESIGN ASSUMPTIONS
=====

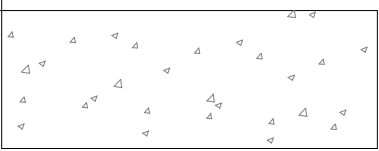
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Subfloor: 3/4" OSB/Glued and Nailed
Ceiling: (None)
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Reported Reactions are UN-FACTORED Loads

SB : SQUASH BLOCK ON BOTH SIDES OF GIRDER
(CUT 1/16" LONGER THAN JOISTS DEPTH)



HATCH AREA INDICATED REPRESENTS
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ADDITIONAL DEAD LOAD OF 5.00 PSF

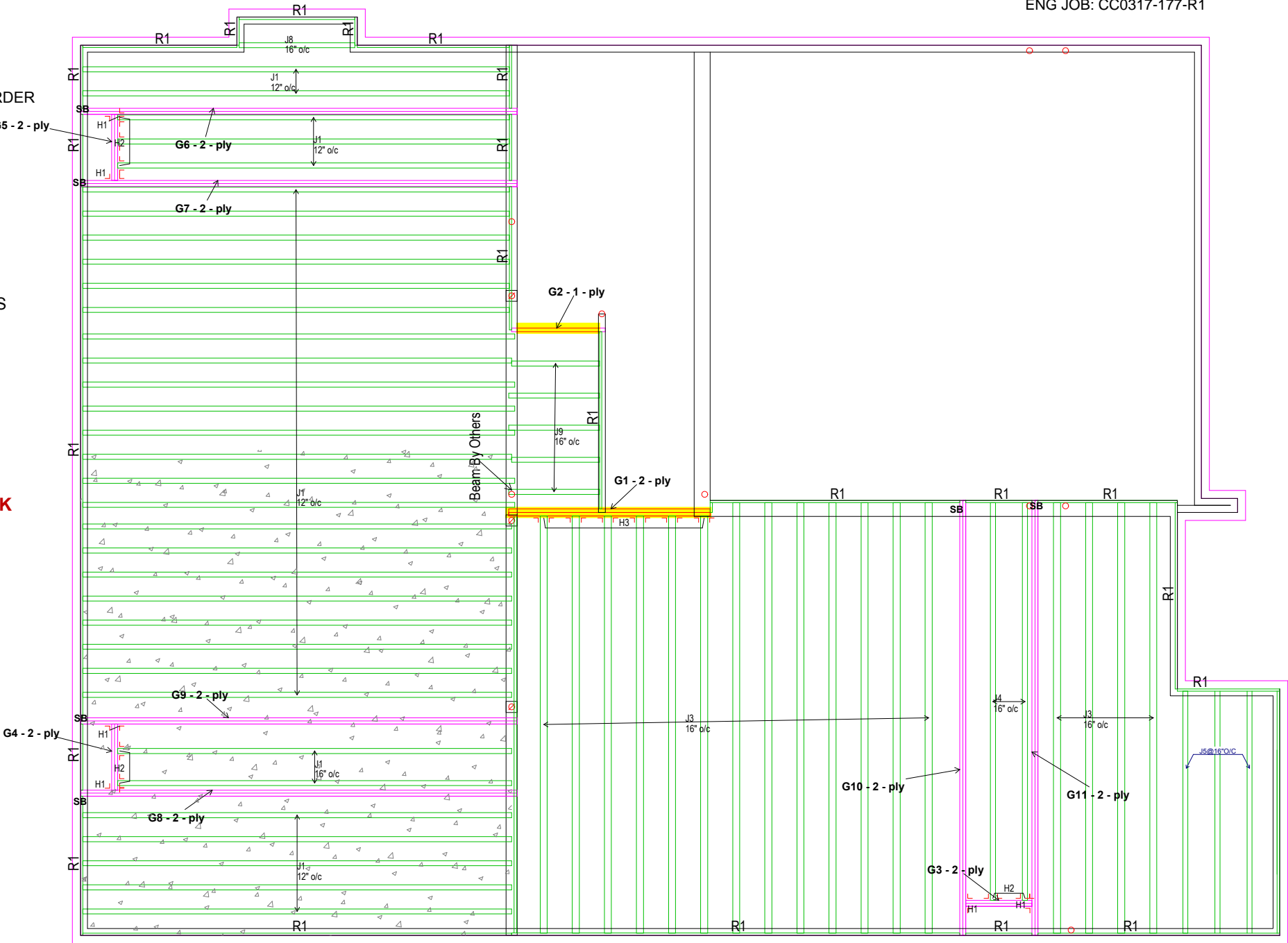
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responsibility of others.



FIRST FLOOR FRAMING



TOWN OF MILTON

PLANNING AND DEVELOPMENT

JUNIPER 7 MODEL

BUILDING: REVIEWED

SCOTT SHERRIFFS

PLANS EXAMINER

APR 11, 2017

DATE

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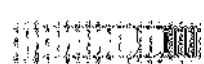
Project Tag:

JUNIPER 7 EL - 2 -3

GREEN PARK HOMES
LECCO RIDGE
MILTON, ON

SALESMAN: RM

Time: 2:41:57 PM
DATE: 10/28/2016
Designer: SB
Not Scaled
License Name:
KEYMARK ENTERPRISES, INC.

CS Beam 2016.1.1.1
kmBeamEngine 4.13.16.1
Materials Database 1547**Member Data****Description: G1**

Comments:

Member Type: Girder

Application: Floor

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Building Code: OBC-2012

Standard Load:

Live Load: 0 PLF

Deflection Criteria: L/480 live, L/360 total

0.720" max. LL

Dead Load: 0 PLF

Deck Connection: Nailed

Member Weight: 11.8 PLF

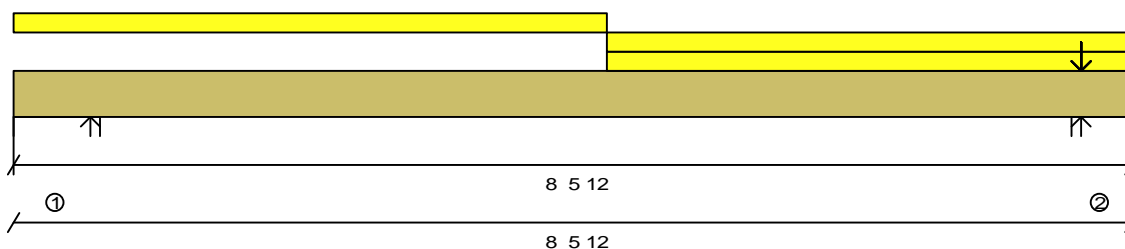
Filename: G1_05.kyb

Building Type: Residential

Importance Category: Normal (Part 9)

Other Loads

| Type (Description) | Side | Begin | End | Trib. Width | Other Start | End | Dead Start | End | Category |
|---------------------------|------|----------|----------|----------------|----------------|-----|---------------|-----|----------|
| Replacement Uniform (PLF) | Top | 0' 0.00" | 4' 6.00" | | 592 | | 222 | | Live |
| Replacement Uniform (PLF) | Top | 4' 6.00" | 8' 5.75" | | 27 | | 10 | | Live |
| Replacement Uniform (PLF) | Top | 4' 6.00" | 8' 5.75" | | 352 | | 132 | | Live |
| Point (LBS) | Top | 8' 1.13" | | | 19 | | 7 | | Live |
| Point (LBS) | Top | 8' 1.13" | | | 20 | | 7 | | Live |
| Point (LBS) | Top | 8' 1.13" | | | 21 | | 8 | | Live |
| Point (LBS) | Top | 8' 1.13" | | | 0 | | 32 | | Live |
| Point (LBS) | Top | 8' 1.13" | | | 0 | | 32 | | Live |
| Point (LBS) | Top | 8' 1.13" | | | 287 | | 108 | | Live |
| Point (LBS) | Top | 8' 1.13" | | | 287 | | 108 | | Live |

**Bearings and Factored Reactions**

| | Location | Type | Material | Input Length | Min Required | Gravity Reaction | Gravity Uplift |
|---|-----------|------|--------------------|-----------------|-----------------|---------------------|-------------------|
| 1 | 0' 0.000" | Wall | SPF Plate (614psi) | 8.000" | 1.887" | 4062# | -- |
| 2 | 8' 5.750" | Wall | SPF Plate (614psi) | 5.500" | 1.522" | 4604# | -- |

Maximum Unfactored Load Case Reactions

Used for applying point loads (or line loads) to carrying members

| | Live | Dead |
|---|-------|------|
| 1 | 2035# | 807# |
| 2 | 2269# | 960# |

READ ALL NOTES ON THIS PAGE AND ON THE
ENGINEERING NOTE PAGE ENP-2. THE NOTE PAGE
IS AN INTEGRAL PART OF THIS DRAWING AS IT
CONTAINS SPECIFICATIONS AND CRITERIA USED
IN THE DESIGN OF THIS COMPONENT.

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Design spans
7' 6.000"

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Product: 1 3/4x11 7/8 West Fraser 2.0E-3100F 2 ply**PASSES DESIGN CHECKS**

NOTE: Pass-thru framing is required at point loads over bearings.
Design assumes continuous lateral bracing along the top chord.
Design assumes no lateral bracing along the bottom chord.
Compression edge maximum unbraced length calculation is based on ply width.

Pass-Thru Framing Squash Block is
required at all point loads over bearings

Refer to Multiple Member Connection
Detail for ply to ply nailing or bolting
requirements

Limit States Design

| | Actual | Limit | Capacity | Location | Loading |
|-----------------|---------|----------|----------|----------|-----------------------|
| Positive Moment | 6991. # | 35386. # | 19% | 3.97' | Total Load 1.25D+1.5L |
| Shear | 2895. # | 16135. # | 17% | 0.6' | Total Load 1.25D+1.5L |
| Max. Reaction | 3276. # | 11838. # | 27% | 8.48' | Total Load 1.25D+1.5L |
| TL Deflection | 0.0636" | 0.2500" | L/999+ | 4.34' | Total Load D+L |
| LL Deflection | 0.0455" | 0.1875" | L/999+ | 4.34' | Total Load L |

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**Passing is defined as when the member, floor joist, beam or girder shown on this drawing meets applicable design criteria for Loads, Loading Conditions, and Spans listed on this sheet.
The design must be reviewed by a qualified designer or design professional as required for approval. This design assumes product installation according to the manufacturer's specifications.

SB
Nascor by KOTT
14 Anderson Blvd.
Uxbridge, ON.
www.nascor.ca

Member Data**Description: CalcG2**

Comments:

Member Type: Girder

Application: Floor

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Building Code: OBC-2012

Standard Load:

Live Load: 0 PLF

Deflection Criteria: L/480 live, L/360 total

0.720" max. LL

Dead Load: 0 PLF

Deck Connection: Nailed

Member Weight: 5.9 PLF

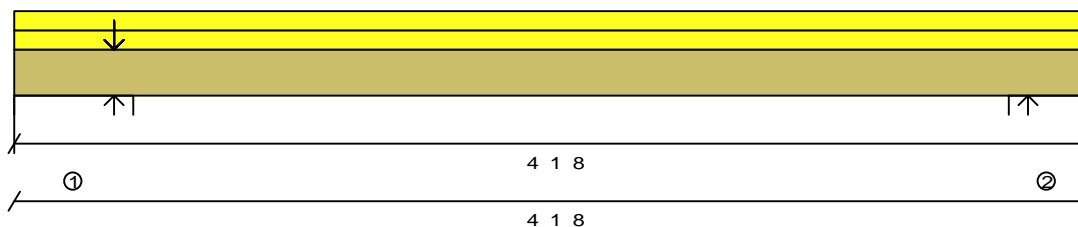
Filename: D:\SAUMIL\GR

Building Type: Residential

Importance Category: Normal (Part 9)

Other Loads**Type****(Description)**

| | Side | Begin | End | Trib. Width | Other Start | End | Dead Start | End | Category |
|---------------------------|------|----------|----------|----------------|----------------|-----|---------------|-----|----------|
| Replacement Uniform (PLF) | Top | 0' 0.00" | 4' 1.50" | | 27 | | 10 | | Live |
| Replacement Uniform (PLF) | Top | 0' 0.00" | 4' 1.50" | | 40 | | 15 | | Live |
| Point (LBS) | Top | 0' 4.63" | | | 9 | | 4 | | Live |
| Point (LBS) | Top | 0' 4.63" | | | 0 | | 32 | | Live |
| Point (LBS) | Top | 0' 4.63" | | | 0 | | 32 | | Live |
| Point (LBS) | Top | 0' 4.63" | | | 50 | | 19 | | Live |
| Point (LBS) | Top | 0' 4.63" | | | 60 | | 22 | | Live |
| Point (LBS) | Top | 0' 4.63" | | | 287 | | 108 | | Live |
| Point (LBS) | Top | 0' 4.63" | | | 287 | | 108 | | Live |

**Bearings and Factored Reactions**

| | Location | Type | Material | Input Length | Min Required | Gravity Reaction | Gravity Uplift |
|---|-----------|------|----------|-----------------|-----------------|---------------------|-------------------|
| 1 | 0' 0.000" | Wall | N/A | N/A | 1.500" | 1689# | -- |
| 2 | 4' 1.500" | Wall | N/A | N/A | 1.500" | 244# | -- |

Maximum Unfactored Load Case Reactions

Used for applying point loads (or line loads) to carrying members

| | Live | Dead |
|---|------|------|
| 1 | 810# | 379# |
| 2 | 117# | 54# |

Design spans
3' 6.250"

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**Product: 1 3/4x11 7/8 West Fraser 2.0E-3100F 1 ply****PASSES DESIGN CHECKS**

Design assumes continuous lateral bracing along the top chord.

Design assumes no lateral bracing along the bottom chord.

Limit States Design

| | Actual | Limit | Capacity | Location | Loading |
|-----------------|---------|----------|----------|----------|-----------------------|
| Positive Moment | 215.1# | 17693.1# | 1% | 2.15' | Total Load 1.25D+1.5L |
| Shear | 107.1# | 6908.1# | 1% | 0.4' | Total Load 1.25D+1.5L |
| TL Deflection | 0.0015" | 0.1174" | L/999+ | 2.15' | Total Load D+L |
| LL Deflection | 0.0010" | 0.0880" | L/999+ | 2.15' | Total Load L |

(Actual is factored load effects, Limit is design resistance)

Bearing length from point load of top loaded beams assumed to be 3.50"

Control: Shear

Pass-Thru Framing Squash Block is
required at all point loads over bearings

READ ALL NOTES ON THIS PAGE AND ON THE
ENGINEERING NOTE PAGE ENP-2. THE NOTE PAGE
IS AN INTEGRAL PART OF THIS DRAWING AS IT
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IN THE DESIGN OF THIS COMPONENT.

Refer to Multiple Member Connection
Detail for ply to ply nailing or bolting
requirements

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SB
Nascor by KOTT
14 Anderson Blvd.
Uxbridge, ON.
www.nascor.ca

Member Data**Description: CalcG3**

Comments:

Member Type: Girder

Application: Floor

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Building Code: OBC-2012

Standard Load:

Live Load: 0 PLF

Deflection Criteria: L/480 live, L/360 total

0.720" max. LL

Dead Load: 0 PLF

Deck Connection: Nailed

Filename: D:\SAUMIL\GR

Building Type: Residential

Importance Category: Normal (Part 9)

Other Loads**Type**

(Description)

Replacement Uniform (PLF)

Side

Top

Begin

0' 0.00"

End

3' 3.00"

Trib.
WidthOther
Start

335

End

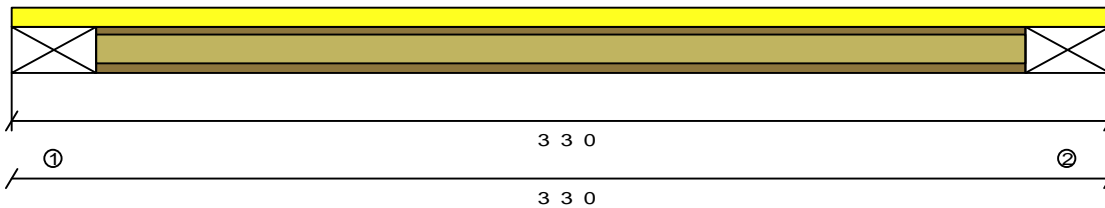
Dead
Start

126

End

Category

Live

**Bearings and Factored Reactions**

| | Location | Type | Material | Input Length | Min Required | Gravity Reaction | Gravity Uplift |
|---|-----------|--------|----------|--------------|--------------|------------------|----------------|
| 1 | 0' 0.000" | Girder | N/A | N/A | N/A | 907# | -- |
| 2 | 3' 3.000" | Girder | N/A | N/A | N/A | 907# | -- |

Maximum Unfactored Load Case Reactions

Used for applying point loads (or line loads) to carrying members

| | Live | Dead |
|---|------|------|
| 1 | 461# | 173# |
| 2 | 461# | 173# |

Design spans

2' 9.000"

Product: NJ12 2 ply

Design assumes continuous lateral bracing along the top chord.
Design assumes no lateral bracing along the bottom chord.
Lateral support is required at each bearing.

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PASSES DESIGN CHECKS**Limit States Design**

| | Actual | Limit | Capacity | Location | Loading |
|-----------------|---------|---------|----------|----------|-----------------------|
| Positive Moment | 623. # | 9020. # | 6% | 1.62' | Total Load 1.25D+1.5L |
| Shear | 907. # | 3400. # | 26% | 0' | Total Load 1.25D+1.5L |
| TL Deflection | 0.0049" | 0.0917" | L/999+ | 1.62' | Total Load D+L |
| LL Deflection | 0.0036" | 0.0688" | L/999+ | 1.62' | Total Load L |

(Actual is factored load effects, Limit is design resistance)

Control: Shear

Manufacturer's installation guide MUST be consulted for multi-ply connection details and alternatives

Web stiffener and minimum bearing length requirements at hangared connections depend on the connection style and are not included in this design.

READ ALL NOTES ON THIS PAGE AND ON THE
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Uxbridge, ON.
www.nascor.ca

Member Data**Description: CalcG4**

Comments:

Member Type: Girder

Application: Floor

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Building Code: OBC-2012

Standard Load:

Live Load: 0 PLF

Deflection Criteria: L/480 live, L/360 total

0.720" max. LL

Dead Load: 0 PLF

Deck Connection: Nailed

Filename: D:\SAUMIL\GR

Building Type: Residential

Importance Category: Normal (Part 9)

Other Loads**Type**

(Description)

Replacement Uniform (PLF)

Side

Top

Begin

0' 0.00"

End

3' 3.00"

Trib.
WidthOther
Start

330

End

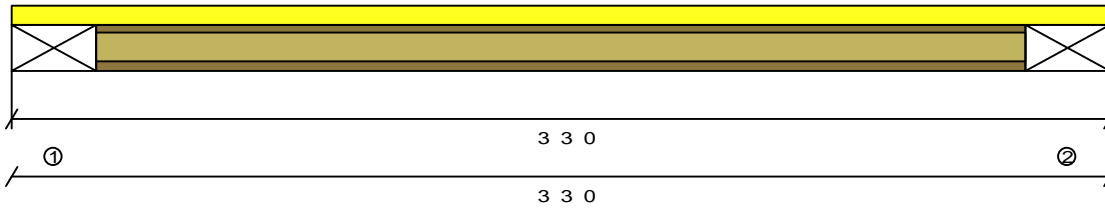
Dead
Start

165

End

Category

Live

**Bearings and Factored Reactions**

| | Location | Type | Material | Input Length | Min Required | Gravity Reaction | Gravity Uplift |
|---|-----------|--------|----------|--------------|--------------|------------------|----------------|
| 1 | 0' 0.000" | Girder | N/A | N/A | N/A | 964# | -- |
| 2 | 3' 3.000" | Girder | N/A | N/A | N/A | 964# | -- |

Maximum Unfactored Load Case Reactions

Used for applying point loads (or line loads) to carrying members

| | Live | Dead |
|---|------|------|
| 1 | 454# | 227# |
| 2 | 454# | 227# |

Design spans

2' 9.000"

Product: NJ12 2 ply

Design assumes continuous lateral bracing along the top chord.
Design assumes no lateral bracing along the bottom chord.
Lateral support is required at each bearing.

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PASSES DESIGN CHECKS**Limit States Design**

| | Actual | Limit | Capacity | Location | Loading |
|-----------------|---------|---------|----------|----------|-----------------------|
| Positive Moment | 663. # | 9020. # | 7% | 1.62' | Total Load 1.25D+1.5L |
| Shear | 964. # | 3400. # | 28% | 0' | Total Load 1.25D+1.5L |
| TL Deflection | 0.0053" | 0.0917" | L/999+ | 1.62' | Total Load D+L |
| LL Deflection | 0.0035" | 0.0688" | L/999+ | 1.62' | Total Load L |

(Actual is factored load effects, Limit is design resistance)

Control: Shear

Manufacturer's installation guide MUST be consulted for multi-ply connection details and alternatives

Web stiffener and minimum bearing length requirements at hangared connections depend on the connection style and are not included in this design.

READ ALL NOTES ON THIS PAGE AND ON THE
ENGINEERING NOTE PAGE ENP-2. THE NOTE PAGE
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IN THE DESIGN OF THIS COMPONENT.

Pass-Thru Framing Squash Block is
required at all point loads over bearings

Refer to Multiple Member Connection
Detail for ply to ply nailing or bolting
requirements

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Member Data**Description: CalcG5**

Comments:

Member Type: Girder

Application: Floor

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Building Code: OBC-2012

Standard Load:

Live Load: 0 PLF

Deflection Criteria: L/480 live, L/360 total

0.720" max. LL

Dead Load: 0 PLF

Deck Connection: Nailed

Filename: D:\SAUMIL\GR

Building Type: Residential

Importance Category: Normal (Part 9)

Other Loads**Type**

(Description)

Replacement Uniform (PLF)

Side

Top

Begin

0' 0.00"

End

3' 3.00"

Trib.
WidthOther
Start

330

End

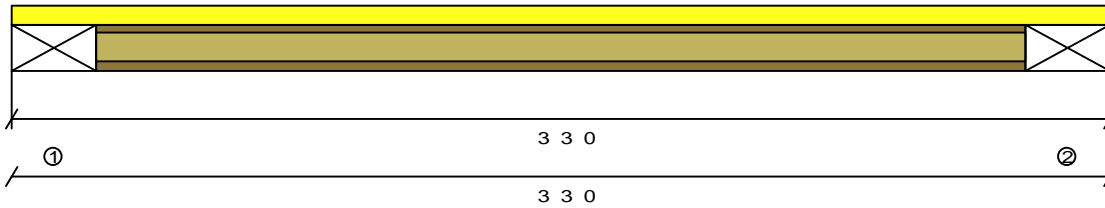
Dead
Start

124

End

Category

Live

**Bearings and Factored Reactions**

| | Location | Type | Material | Input Length | Min Required | Gravity Reaction | Gravity Uplift |
|---|-----------|--------|----------|--------------|--------------|------------------|----------------|
| 1 | 0' 0.000" | Girder | N/A | N/A | N/A | 893# | -- |
| 2 | 3' 3.000" | Girder | N/A | N/A | N/A | 893# | -- |

Maximum Unfactored Load Case Reactions

Used for applying point loads (or line loads) to carrying members

| | Live | Dead |
|---|------|------|
| 1 | 454# | 170# |
| 2 | 454# | 170# |

Design spans

2' 9.000"

Product: NJ12 2 ply

Design assumes continuous lateral bracing along the top chord.
Design assumes no lateral bracing along the bottom chord.
Lateral support is required at each bearing.

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PASSES DESIGN CHECKS**Limit States Design**

| | Actual | Limit | Capacity | Location | Loading |
|-----------------|---------|---------|----------|----------|-----------------------|
| Positive Moment | 614. # | 9020. # | 6% | 1.62' | Total Load 1.25D+1.5L |
| Shear | 893. # | 3400. # | 26% | 0' | Total Load 1.25D+1.5L |
| TL Deflection | 0.0048" | 0.0917" | L/999+ | 1.62' | Total Load D+L |
| LL Deflection | 0.0035" | 0.0688" | L/999+ | 1.62' | Total Load L |

(Actual is factored load effects, Limit is design resistance)

Control: Shear

Manufacturer's installation guide MUST be consulted for multi-ply connection details and alternatives

Web stiffener and minimum bearing length requirements at hangared connections depend on the connection style and are not included in this design.

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Pass-Thru Framing Squash Block is
required at all point loads over bearings

Refer to Multiple Member Connection
Detail for ply to ply nailing or bolting
requirements

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Member Data**Description:** CalcG6**Comments:**

Member Type: Girder

Application: Floor

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Building Code: OBC-2012

Standard Load:

Live Load: 0 PLF

Deflection Criteria: L/480 live, L/360 total

0.720" max. LL

Dead Load: 0 PLF

Deck Connection: Nailed

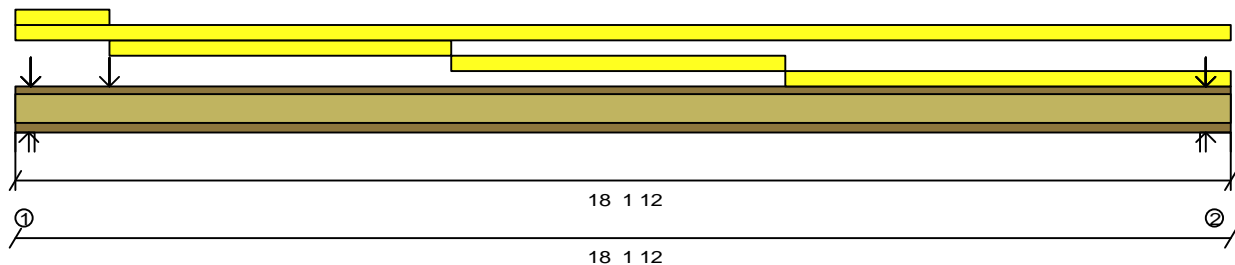
Filename: D:\SAUMIL\GR

Building Type: Residential

Importance Category: Normal (Part 9)

Other Loads

| Type (Description) | Side | Begin | End | Trib. Width | Other Start | End | Dead Start | End | Category |
|---------------------------|------|-----------|-----------|----------------|----------------|-----|---------------|-----|----------|
| Replacement Uniform (PLF) | Top | 0' 0.00" | 1' 5.00" | | 9 | | 3 | | Live |
| Replacement Uniform (PLF) | Top | 0' 0.00" | 18' 1.75" | | 27 | | 10 | | Live |
| Replacement Uniform (PLF) | Top | 1' 5.00" | 6' 6.00" | | 27 | | 10 | | Live |
| Replacement Uniform (PLF) | Top | 6' 6.00" | 11' 6.00" | | 27 | | 10 | | Live |
| Replacement Uniform (PLF) | Top | 11' 6.00" | 18' 1.75" | | 27 | | 10 | | Live |
| Point (LBS) | Top | 0' 2.75" | | | 0 | | 65 | | Live |
| Point (LBS) | Top | 0' 2.75" | | | 365 | | 0 | | Snow |
| Point (LBS) | Top | 0' 2.75" | | | 445 | | 332 | | Live |
| Point (LBS) | Top | 1' 5.00" | | | 495 | | 207 | | Live |
| Point (LBS) | Top | 17' 9.13" | | | 0 | | 65 | | Live |
| Point (LBS) | Top | 17' 9.13" | | | 232 | | 68 | | Live |
| Point (LBS) | Top | 17' 9.13" | | | 573 | | 233 | | Live |

**Bearings and Factored Reactions**

| | Location | Type | Material | Input Length | Min Required | Gravity Reaction | Gravity Uplift |
|---|------------|------|----------|-----------------|-----------------|---------------------|-------------------|
| 1 | 0' 0.000" | Wall | N/A | N/A | 1.500" | 3159# | -- |
| 2 | 18' 1.750" | Wall | N/A | N/A | 1.500" | 2653# | -- |

Maximum Unfactored Load Case Reactions

Used for applying point loads (or line loads) to carrying members

| | Live | Snow | Dead |
|---|-------|------|------|
| 1 | 1354# | 365# | 757# |
| 2 | 1306# | 0# | 555# |

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IN THE DESIGN OF THIS COMPONENT.

Design spans
17' 6.500"**Product: NJ12 2 ply**

NOTE: Web stiffeners are required at point loads > 0#.
Design assumes continuous lateral bracing along the top chord.
Design assumes no lateral bracing along the bottom chord.
Lateral support is required at each bearing.

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PASSES DESIGN CHECKS

Pass-Thru Framing Squash Block is
required at all point loads over bearings

Refer to Multiple Member Connection
Detail for ply to ply nailing or bolting
requirements

Limit States Design

| | Actual | Limit | Capacity | Location | Loading |
|-----------------|---------|---------|----------|----------|---------------------------------|
| Positive Moment | 4644. # | 9020. # | 51% | 8.11' | Total Load 1.25D+1.5L |
| Shear | 1813. # | 3400. # | 53% | 0' | Total Load 1.25D+1.5L |
| End Reaction | 3159. # | 4100. # | 77% | 0' | Total Load 1.25D+1.5L+1.00*0.5S |
| TL Deflection | 0.3950" | 0.5847" | L/532 | 8.99' | Total Load D+L |
| LL Deflection | 0.2860" | 0.4385" | L/736 | 8.99' | Total Load L |

(Actual is factored load effects, Limit is design resistance)

Control: Max End React.

Manufacturer's installation guide MUST be consulted for multi-ply connection details and alternatives

Manufacturer's installation guide MUST be consulted to determine if web stiffeners are required at point loads

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Member Data**Description:** CalcG7**Comments:**

Member Type: Girder

Application: Floor

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Building Code: OBC-2012

Standard Load:

Live Load: 0 PLF

Deflection Criteria: L/480 live, L/360 total

0.720" max. LL

Dead Load: 0 PLF

Deck Connection: Nailed

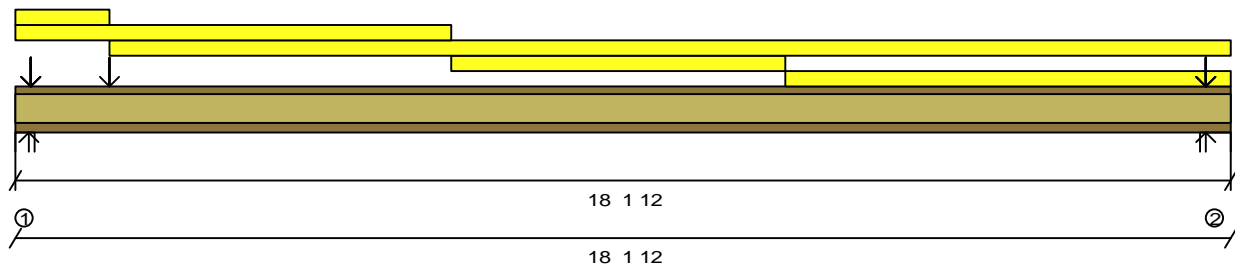
Filename: D:\SAUMIL\GR

Building Type: Residential

Importance Category: Normal (Part 9)

Other Loads

| Type (Description) | Side | Begin | End | Trib. Width | Other Start | End | Dead Start | End | Category |
|---------------------------|------|-----------|-----------|----------------|----------------|-----|---------------|-----|----------|
| Replacement Uniform (PLF) | Top | 0' 0.00" | 1' 5.00" | | 9 | | 3 | | Live |
| Replacement Uniform (PLF) | Top | 0' 0.00" | 6' 6.00" | | 27 | | 10 | | Live |
| Replacement Uniform (PLF) | Top | 1' 5.00" | 18' 1.75" | | 27 | | 10 | | Live |
| Replacement Uniform (PLF) | Top | 6' 6.00" | 11' 6.00" | | 27 | | 10 | | Live |
| Replacement Uniform (PLF) | Top | 11' 6.00" | 18' 1.75" | | 27 | | 10 | | Live |
| Point (LBS) | Top | 0' 2.75" | | | 0 | | 65 | | Live |
| Point (LBS) | Top | 0' 2.75" | | | 378 | | 0 | | Snow |
| Point (LBS) | Top | 0' 2.75" | | | 451 | | 337 | | Live |
| Point (LBS) | Top | 1' 5.00" | | | 495 | | 207 | | Live |
| Point (LBS) | Top | 17' 9.13" | | | 0 | | 65 | | Live |
| Point (LBS) | Top | 17' 9.13" | | | 232 | | 68 | | Live |
| Point (LBS) | Top | 17' 9.13" | | | 573 | | 233 | | Live |

**Bearings and Factored Reactions**

| | Location | Type | Material | Input Length | Min Required | Gravity Reaction | Gravity Uplift |
|---|------------|------|----------|-----------------|-----------------|---------------------|-------------------|
| 1 | 0' 0.000" | Wall | N/A | N/A | 1.500" | 3181# | -- |
| 2 | 18' 1.750" | Wall | N/A | N/A | 1.500" | 2653# | -- |

Maximum Unfactored Load Case Reactions

Used for applying point loads (or line loads) to carrying members

| | Live | Snow | Dead |
|---|-------|------|------|
| 1 | 1359# | 378# | 762# |
| 2 | 1306# | 0# | 555# |

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IN THE DESIGN OF THIS COMPONENT.

Design spans
17' 6.500"

23 MAR 2017

Product: NJ12 2 ply

NOTE: Web stiffeners are required at point loads > 0#.
Design assumes continuous lateral bracing along the top chord.
Design assumes no lateral bracing along the bottom chord.
Lateral support is required at each bearing.

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PASSES DESIGN CHECKS

Pass-Thru Framing Squash Block is
required at all point loads over bearings

Refer to Multiple Member Connection
Detail for ply to ply nailing or bolting
requirements

Limit States Design

| | Actual | Limit | Capacity | Location | Loading |
|-----------------|---------|---------|----------|----------|---------------------------------|
| Positive Moment | 4644. # | 9020. # | 51% | 8.11' | Total Load 1.25D+1.5L |
| Shear | 1813. # | 3400. # | 53% | 0' | Total Load 1.25D+1.5L |
| End Reaction | 3181. # | 4100. # | 77% | 0' | Total Load 1.25D+1.5L+1.00*0.5S |
| TL Deflection | 0.3950" | 0.5847" | L/532 | 8.99' | Total Load D+L |
| LL Deflection | 0.2860" | 0.4385" | L/736 | 8.99' | Total Load L |

(Actual is factored load effects, Limit is design resistance)

Control: Max End React.

Manufacturer's installation guide MUST be consulted for multi-ply connection details and alternatives

Manufacturer's installation guide MUST be consulted to determine if web stiffeners are required at point loads

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Member Data**Description: CalcG8**

Comments:

Member Type: Girder

Application: Floor

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Building Code: OBC-2012

Standard Load:

Live Load: 0 PLF

Deflection Criteria: L/480 live, L/360 total

0.720" max. LL

Dead Load: 0 PLF

Deck Connection: Nailed

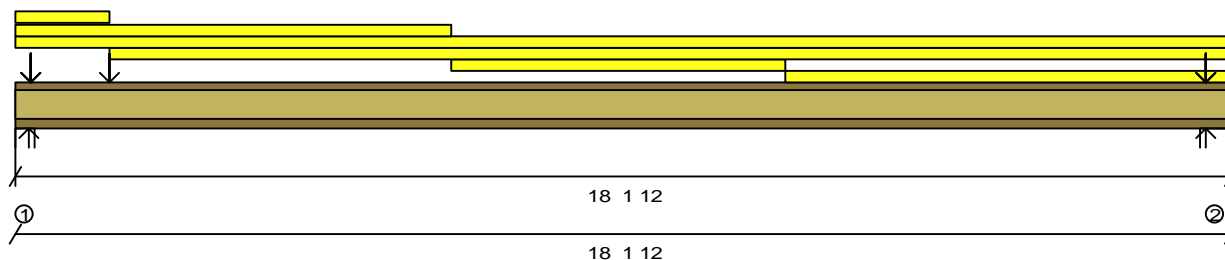
Filename: D:\SAUMIL\GR

Building Type: Residential

Importance Category: Normal (Part 9)

Other Loads**Type****(Description)**

| | Side | Begin | End | Trib. Width | Other Start | End | Dead Start | End | Category |
|---------------------------|------|-----------|-----------|----------------|----------------|-----|---------------|-----|----------|
| Replacement Uniform (PLF) | Top | 0' 0.00" | 1' 5.00" | | 9 | | 3 | | Live |
| Replacement Uniform (PLF) | Top | 0' 0.00" | 6' 6.00" | | 27 | | 10 | | Live |
| Additional Uniform (PLF) | Top | 0' 0.00" | 18' 1.75" | | 0 | | 7 | | Live |
| Replacement Uniform (PLF) | Top | 1' 5.00" | 18' 1.75" | | 27 | | 10 | | Live |
| Replacement Uniform (PLF) | Top | 6' 6.00" | 11' 6.00" | | 27 | | 10 | | Live |
| Replacement Uniform (PLF) | Top | 11' 6.00" | 18' 1.75" | | 27 | | 10 | | Live |
| Point (LBS) | Top | 0' 2.75" | | | 0 | | 65 | | Live |
| Point (LBS) | Top | 0' 2.75" | | | 378 | | 0 | | Snow |
| Point (LBS) | Top | 0' 2.75" | | | 451 | | 371 | | Live |
| Point (LBS) | Top | 1' 5.00" | | | 495 | | 269 | | Live |
| Point (LBS) | Top | 17' 9.13" | | | 43 | | 16 | | Live |
| Point (LBS) | Top | 17' 9.13" | | | 0 | | 65 | | Live |
| Point (LBS) | Top | 17' 9.13" | | | 573 | | 259 | | Live |

**Bearings and Factored Reactions**

| | Location | Type | Material | Input Length | Min Required | Gravity Reaction | Gravity Uplift |
|---|------------|------|----------|-----------------|-----------------|---------------------|-------------------|
| 1 | 0' 0.000" | Wall | N/A | N/A | 1.500" | 3368# | -- |
| 2 | 18' 1.750" | Wall | N/A | N/A | 1.500" | 2415# | -- |

Maximum Unfactored Load Case Reactions

Used for applying point loads (or line loads) to carrying members

| | Live | Snow | Dead |
|---|-------|------|------|
| 1 | 1359# | 378# | 912# |
| 2 | 1117# | 0# | 591# |

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ENGINEERING NOTE PAGE ENP-2. THE NOTE PAGE
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Design spans

17' 6.500"

23 MAR 2017

Product: NJ12 2 ply

NOTE: Web stiffeners are required at point loads > 0#.
Design assumes continuous lateral bracing along the top chord.
Design assumes no lateral bracing along the bottom chord.
Lateral support is required at each bearing.

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PASSES DESIGN CHECKS

Pass-Thru Framing Squash Block is
required at all point loads over bearings

Refer to Multiple Member Connection
Detail for ply to ply nailing or bolting
requirements

Limit States Design

| | Actual | Limit | Capacity | Location | Loading |
|-----------------|---------|---------|----------|----------|---------------------------------|
| Positive Moment | 5012.# | 9020.# | 55% | 8.11' | Total Load 1.25D+1.5L |
| Shear | 1958.# | 3400.# | 57% | 0' | Total Load 1.25D+1.5L |
| End Reaction | 3368.# | 4100.# | 82% | 0' | Total Load 1.25D+1.5L+1.00*0.5S |
| TL Deflection | 0.4309" | 0.5847" | L/488 | 8.99' | Total Load D+L |
| LL Deflection | 0.2860" | 0.4385" | L/736 | 8.99' | Total Load L |

(Actual is factored load effects, Limit is design resistance)

Control: Max End React.

Manufacturer's installation guide MUST be consulted for multi-ply connection details and alternatives

Manufacturer's installation guide MUST be consulted to determine if web stiffeners are required at point loads

READ ALL NOTES ON THIS PAGE AND ON THE
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Member Data**Description:** CalcG9**Comments:**

Member Type: Girder

Application: Floor

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Building Code: OBC-2012

Standard Load:

Live Load: 0 PLF

Deflection Criteria: L/480 live, L/360 total

0.720" max. LL

Dead Load: 0 PLF

Deck Connection: Nailed

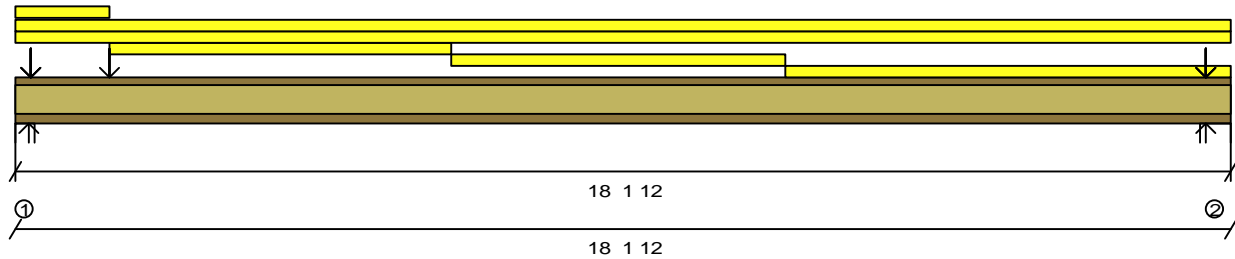
Filename: D:\SAUMIL\GR

Building Type: Residential

Importance Category: Normal (Part 9)

Other Loads

| Type (Description) | Side | Begin | End | Trib. Width | Other Start | End | Dead Start | End | Category |
|---------------------------|------|-----------|-----------|----------------|----------------|-----|---------------|-----|----------|
| Replacement Uniform (PLF) | Top | 0' 0.00" | 1' 5.00" | | 9 | | 3 | | Live |
| Additional Uniform (PLF) | Top | 0' 0.00" | 18' 1.75" | | 0 | | 7 | | Live |
| Replacement Uniform (PLF) | Top | 0' 0.00" | 18' 1.75" | | 27 | | 10 | | Live |
| Replacement Uniform (PLF) | Top | 1' 5.00" | 6' 6.00" | | 27 | | 10 | | Live |
| Replacement Uniform (PLF) | Top | 6' 6.00" | 11' 6.00" | | 27 | | 10 | | Live |
| Replacement Uniform (PLF) | Top | 11' 6.00" | 18' 1.75" | | 27 | | 10 | | Live |
| Point (LBS) | Top | 0' 2.75" | | | 0 | | 65 | | Live |
| Point (LBS) | Top | 0' 2.75" | | | 378 | | 0 | | Snow |
| Point (LBS) | Top | 0' 2.75" | | | 451 | | 371 | | Live |
| Point (LBS) | Top | 1' 5.00" | | | 495 | | 269 | | Live |
| Point (LBS) | Top | 17' 9.13" | | | 43 | | 16 | | Live |
| Point (LBS) | Top | 17' 9.13" | | | 0 | | 65 | | Live |
| Point (LBS) | Top | 17' 9.13" | | | 573 | | 259 | | Live |

**Bearings and Factored Reactions**

| | Location | Type | Material | Input Length | Min Required | Gravity Reaction | Gravity Uplift |
|---|------------|------|----------|-----------------|-----------------|---------------------|-------------------|
| 1 | 0' 0.000" | Wall | N/A | N/A | 1.500" | 3368# | -- |
| 2 | 18' 1.750" | Wall | N/A | N/A | 1.500" | 2415# | -- |

Maximum Unfactored Load Case Reactions

Used for applying point loads (or line loads) to carrying members

| | Live | Snow | Dead |
|---|-------|------|------|
| 1 | 1359# | 378# | 912# |
| 2 | 1117# | 0# | 591# |

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Design spans
17' 6.500"

23 MAR 2017

Product: NJ12 2 ply

NOTE: Web stiffeners are required at point loads > 0#.
Design assumes continuous lateral bracing along the top chord.
Design assumes no lateral bracing along the bottom chord.
Lateral support is required at each bearing.

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PASSES DESIGN CHECKS

Pass-Thru Framing Squash Block is
required at all point loads over bearings

Refer to Multiple Member Connection
Detail for ply to ply nailing or bolting
requirements

Limit States Design

| | Actual | Limit | Capacity | Location | Loading |
|-----------------|---------|---------|----------|----------|---------------------------------|
| Positive Moment | 5012.# | 9020.# | 55% | 8.11' | Total Load 1.25D+1.5L |
| Shear | 1958.# | 3400.# | 57% | 0' | Total Load 1.25D+1.5L |
| End Reaction | 3368.# | 4100.# | 82% | 0' | Total Load 1.25D+1.5L+1.00*0.5S |
| TL Deflection | 0.4309" | 0.5847" | L/488 | 8.99' | Total Load D+L |
| LL Deflection | 0.2860" | 0.4385" | L/736 | 8.99' | Total Load L |

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The design must be reviewed by a qualified designer or design professional as required for approval. This design assumes product installation according to the manufacturer's specifications.

SB
Nascor by KOTT
14 Anderson Blvd.
Uxbridge, ON.
www.nascor.ca

(Actual is factored load effects, Limit is design resistance)

Control: Max End React.

Manufacturer's installation guide MUST be consulted for multi-ply connection details and alternatives

Manufacturer's installation guide MUST be consulted to determine if web stiffeners are required at point loads

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ENGINEERING NOTE PAGE ENP-2. THE NOTE PAGE
IS AN INTEGRAL PART OF THIS DRAWING AS IT
CONTAINS SPECIFICATIONS AND CRITERIA USED
IN THE DESIGN OF THIS COMPONENT.

Pass-Thru Framing Squash Block is
required at all point loads over bearings

Refer to Multiple Member Connection
Detail for ply to ply nailing or bolting
requirements



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SB
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14 Anderson Blvd.
Uxbridge, ON.
www.nascor.ca

Member Data**Description: CalcG10**

Comments:

Member Type: Girder

Application: Floor

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Building Code: OBC-2012

Standard Load:

Live Load: 0 PLF

Deflection Criteria: L/480 live, L/360 total

0.720" max. LL

Dead Load: 0 PLF

Deck Connection: Nailed

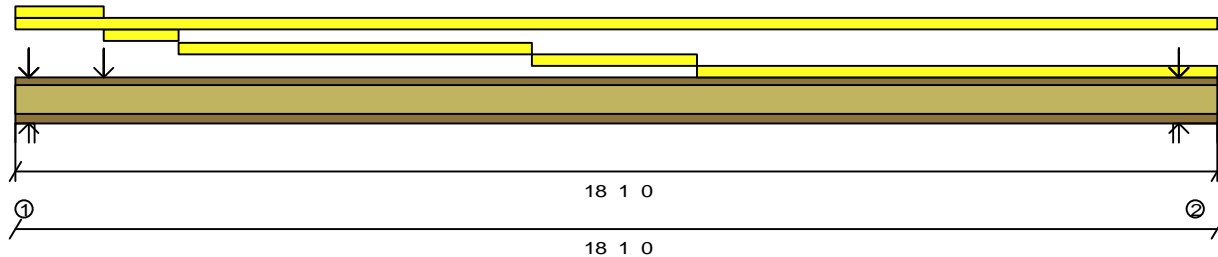
Filename: D:\SAUMIL\GR

Building Type: Residential

Importance Category: Normal (Part 9)

Other Loads

| Type (Description) | Side | Begin | End | Trib. Width | Other Start | End | Dead Start | End | Category |
|---------------------------|------|-----------|-----------|----------------|----------------|-----|---------------|-----|----------|
| Replacement Uniform (PLF) | Top | 0' 0.00" | 1' 4.00" | | 9 | | 3 | | Live |
| Replacement Uniform (PLF) | Top | 0' 0.00" | 18' 1.00" | | 27 | | 10 | | Live |
| Replacement Uniform (PLF) | Top | 1' 4.00" | 2' 5.69" | | 27 | | 10 | | Live |
| Replacement Uniform (PLF) | Top | 2' 5.69" | 7' 9.31" | | 27 | | 10 | | Live |
| Replacement Uniform (PLF) | Top | 7' 9.31" | 10' 3.00" | | 27 | | 10 | | Live |
| Replacement Uniform (PLF) | Top | 10' 3.00" | 18' 1.00" | | 27 | | 10 | | Live |
| Point (LBS) | Top | 0' 2.75" | | | 32 | | 0 | | Snow |
| Point (LBS) | Top | 0' 2.75" | | | 0 | | 65 | | Live |
| Point (LBS) | Top | 0' 2.75" | | | 286 | | 182 | | Live |
| Point (LBS) | Top | 1' 4.00" | | | 503 | | 209 | | Live |
| Point (LBS) | Top | 17' 5.88" | | | 43 | | 16 | | Live |
| Point (LBS) | Top | 17' 5.88" | | | 0 | | 65 | | Live |
| Point (LBS) | Top | 17' 5.88" | | | 571 | | 214 | | Live |

**Bearings and Factored Reactions**

| | Location | Type | Material | Input Length | Min Required | Gravity Reaction | Gravity Uplift |
|---|------------|------|----------|-----------------|-----------------|---------------------|-------------------|
| 1 | 0' 0.000" | Wall | N/A | N/A | 1.500" | 2572# | -- |
| 2 | 18' 1.000" | Wall | N/A | N/A | 1.500" | 2261# | -- |

Maximum Unfactored Load Case Reactions

Used for applying point loads (or line loads) to carrying members

| | Live | Snow | Dead |
|---|-------|------|------|
| 1 | 1197# | 32# | 608# |
| 2 | 1106# | 0# | 481# |

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IN THE DESIGN OF THIS COMPONENT.



Design spans

17' 3.250"

Product: NJ12 2 ply

NOTE: Web stiffeners are required at point loads > 0#.
Design assumes continuous lateral bracing along the top chord.
Design assumes no lateral bracing along the bottom chord.
Lateral support is required at each bearing.

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PASSES DESIGN CHECKS

Pass-Thru Framing Squash Block is
required at all point loads over bearings

Refer to Multiple Member Connection
Detail for ply to ply nailing or bolting
requirements

Limit States Design

| | Actual | Limit | Capacity | Location | Loading |
|-----------------|---------|---------|----------|----------|---------------------------------|
| Positive Moment | 4486. # | 9020. # | 49% | 7.99' | Total Load 1.25D+1.5L |
| Shear | 1819. # | 3400. # | 53% | 0' | Total Load 1.25D+1.5L |
| End Reaction | 2572. # | 4100. # | 62% | 0' | Total Load 1.25D+1.5L+1.00*0.5S |
| TL Deflection | 0.3707" | 0.5757" | L/559 | 8.85' | Total Load D+L |
| LL Deflection | 0.2684" | 0.4318" | L/772 | 8.85' | Total Load L |

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(Actual is factored load effects, Limit is design resistance)

Control: TL Deflection

Manufacturer's installation guide MUST be consulted for multi-ply connection details and alternatives

Manufacturer's installation guide MUST be consulted to determine if web stiffeners are required at point loads

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Pass-Thru Framing Squash Block is
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Refer to Multiple Member Connection
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requirements



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SB
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14 Anderson Blvd.
Uxbridge, ON.
www.nascor.ca

Member Data**Description:** CalcG11**Comments:**

Member Type: Girder

Application: Floor

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Building Code: OBC-2012

Standard Load:

Live Load: 0 PLF

Deflection Criteria: L/480 live, L/360 total

0.720" max. LL

Dead Load: 0 PLF

Deck Connection: Nailed

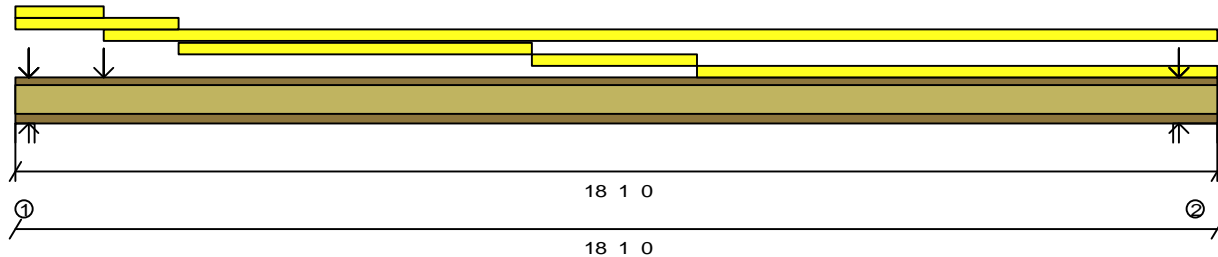
Filename: D:\SAUMIL\GR

Building Type: Residential

Importance Category: Normal (Part 9)

Other Loads

| Type (Description) | Side | Begin | End | Trib. Width | Other Start | End | Dead Start | End | Category |
|---------------------------|------|-----------|-----------|----------------|----------------|-----|---------------|-----|----------|
| Replacement Uniform (PLF) | Top | 0' 0.00" | 1' 4.00" | | 9 | | 3 | | Live |
| Replacement Uniform (PLF) | Top | 0' 0.00" | 2' 5.69" | | 27 | | 10 | | Live |
| Replacement Uniform (PLF) | Top | 1' 4.00" | 18' 1.00" | | 27 | | 10 | | Live |
| Replacement Uniform (PLF) | Top | 2' 5.69" | 7' 9.31" | | 27 | | 10 | | Live |
| Replacement Uniform (PLF) | Top | 7' 9.31" | 10' 3.00" | | 27 | | 10 | | Live |
| Replacement Uniform (PLF) | Top | 10' 3.00" | 18' 1.00" | | 27 | | 10 | | Live |
| Point (LBS) | Top | 0' 2.75" | | | 32 | | 0 | | Snow |
| Point (LBS) | Top | 0' 2.75" | | | 0 | | 65 | | Live |
| Point (LBS) | Top | 0' 2.75" | | | 286 | | 182 | | Live |
| Point (LBS) | Top | 1' 4.00" | | | 503 | | 209 | | Live |
| Point (LBS) | Top | 17' 5.88" | | | 43 | | 16 | | Live |
| Point (LBS) | Top | 17' 5.88" | | | 0 | | 65 | | Live |
| Point (LBS) | Top | 17' 5.88" | | | 571 | | 214 | | Live |

**Bearings and Factored Reactions**

| | Location | Type | Material | Input Length | Min Required | Gravity Reaction | Gravity Uplift |
|---|------------|------|----------|-----------------|-----------------|---------------------|-------------------|
| 1 | 0' 0.000" | Wall | N/A | N/A | 1.500" | 2572# | -- |
| 2 | 18' 1.000" | Wall | N/A | N/A | 1.500" | 2261# | -- |

Maximum Unfactored Load Case Reactions

Used for applying point loads (or line loads) to carrying members

| | Live | Snow | Dead |
|---|-------|------|------|
| 1 | 1197# | 32# | 608# |
| 2 | 1106# | 0# | 481# |

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Design spans
17' 3.250"

23 MAR 2017

Product: NJ12 2 ply

NOTE: Web stiffeners are required at point loads > 0#.
Design assumes continuous lateral bracing along the top chord.
Design assumes no lateral bracing along the bottom chord.
Lateral support is required at each bearing.

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PASSES DESIGN CHECKS

Pass-Thru Framing Squash Block is
required at all point loads over bearings

Refer to Multiple Member Connection
Detail for ply to ply nailing or bolting
requirements

Limit States Design

| | Actual | Limit | Capacity | Location | Loading |
|-----------------|---------|---------|----------|----------|---------------------------------|
| Positive Moment | 4486. # | 9020. # | 49% | 7.99' | Total Load 1.25D+1.5L |
| Shear | 1819. # | 3400. # | 53% | 0' | Total Load 1.25D+1.5L |
| End Reaction | 2572. # | 4100. # | 62% | 0' | Total Load 1.25D+1.5L+1.00*0.5S |
| TL Deflection | 0.3707" | 0.5757" | L/559 | 8.85' | Total Load D+L |
| LL Deflection | 0.2684" | 0.4318" | L/772 | 8.85' | Total Load L |

(Actual is factored load effects, Limit is design resistance)

Control: TL Deflection

Manufacturer's installation guide MUST be consulted for multi-ply connection details and alternatives

Manufacturer's installation guide MUST be consulted to determine if web stiffeners are required at point loads

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Refer to Multiple Member Connection
Detail for ply to ply nailing or bolting
requirements



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14 Anderson Blvd.
Uxbridge, ON.
www.nascor.ca

| ----- Floor Framing Material ----- | | | |
|------------------------------------|------|--------------------------------|--------|
| Type | Qty. | Product | Length |
| J1 | 10 | NJH12 | 16' 0" |
| J2 | 6 | NJH12 | 14' 0" |
| J3 | 1 | NJH12 | 12' 0" |
| J4 | 8 | NJH12 | 10' 0" |
| J5 | 1 | NJH12 | 8' 0" |
| J6 | 5 | NJH12 | 4' 0" |
| J7 | 8 | NJ40U12 | 20' 0" |
| J9 | 3 | NJ60H12 | 20' 0" |
| J10 | 52 | NJ60H12 | 18' 0" |
| G1 | 1 | 1 3/4x11 7/8 West Fraser 2.0E- | 8' 0" |
| G2 | 1 | 1 3/4x11 7/8 West Fraser 2.0E- | 4' 0" |
| G3 | 1 | 1 3/4x11 7/8 West Fraser 2.0E- | 10' 0" |
| G4 | 2 | 1 3/4x11 7/8 West Fraser 2.0E- | 10' 0" |
| G5 | 1 | 1 3/4x11 7/8 West Fraser 2.0E- | 6' 0" |
| R1 | 17 | 11 7/8" RIMBOARD | 12' 0" |

| ----- Miscellaneous Materials ----- | | | |
|-------------------------------------|------|---------|--------|
| Type | Qty. | Product | Length |
| XXX | 1 | NJH12 | 12' 0" |
| XXX | 1 | NJ60H12 | 4' 0" |

All product names are trademarks of their respective owners

DESIGN ASSUMPTIONS
=====

Loads:(un-factored)
T/C Live: 40 psf B/C Live: 0 psf
T/C Dead: 15 psf B/C Dead: 0 psf
Load Case: Live
Deflection Criteria:
L/480 Live L/360 Total
Building Code: OBC-2012 (Limit States Design
Building Type: Residential
Importance Category: Normal (Part 9)
Design assumes top edge continuously braced,
and bottom edge unbraced.
Joist Design Includes CCMC Vibration Check
Subfloor: 5/8" OSB Glued and Nailed
Ceiling: 1/2" gypsum
Blocking: (None)

All Loads are UN-FACTORED Loads

- NOTES:
1. Framers to verify dimensions on the architectural drawings.
 2. Double joist only require filler/backer ply when supporting another member using a face-mounted hanger.
 3. Install 2x4 blocking @ 24" o/c under parallel non-loadbearing walls.
 4. Install single-ply flush window header along inside face of rimboard/rimjoist.
 5. Refer to Nascor specifier guide for installation details.
 6. Squash blocks recommended to be installed at end bearing on all first level joists which support loading from above exceeding two levels floor or roof.
 7. Load transfer blocks to be installed under all point loads.
 8. It shall be the framer's responsibility that floor joists and beams are fastened as per the hanger manufacturer's standards.



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14 Anderson Blvd.
Uxbridge, ON.
www.nascor.ca

Project Tag:

JUNIPER 7 EL - 1

GREEN PARK HOMES
LECCO RIDGE
MILTON, ON

SALESMAN: RM

Time: 07:54 AM
DATE: 10/31/16
Designer: SB
Not Scaled
License Name:
KEYMARK ENTERPRISES, INC.

HATCH AREA INDICATED REPRESENTS
CERAMIC TILED FLOOR WITH AN
ADDITIONAL DEAD LOAD OF 5.00 PSF

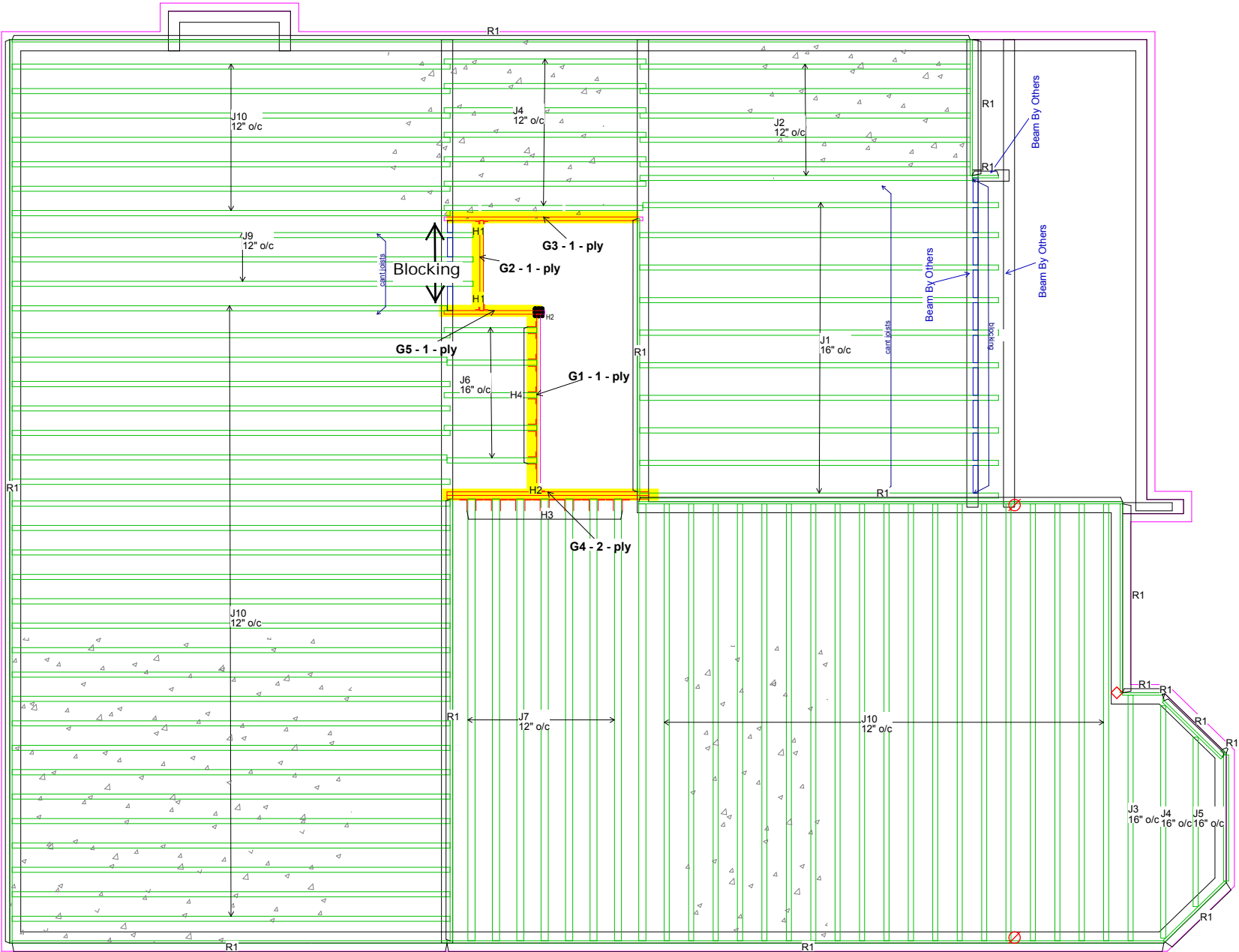
PASS-THRU FRAMING SQUASH BLOCK
IS REQUIRED AT ALL POINT LOADS
OVER BEARINGS.

Refer to Multiple Member Connection
Detail to ply to ply nailing or bolting
requirements.

--- Connector List ---

| ID# | Qty | Model Number |
|-----|-----|--------------|
| H1 | 2 | HUS1.81/10 |
| H2 | 1 | HUS1.81/10 |
| H3 | 7 | LT351188 |
| H4 | 5 | LT251188 |

Rim parallel to joists: 1-1/8" rimboard with
2"x4" block (1/16" longer than rim depth) @ 16" o/c.
All other components and structural elements supporting
the floor system such as beams, walls, columns and
foundation walls and footings including anchorage of
components and bracing for lateral stability are the
responsibility of others.



SECOND FLOOR FRAMING

TOWN OF MILTON
PLANNING AND DEVELOPMENT
JUNIPER 7 MODEL

BUILDING: REVIEWED
SCOTT SHERRIFFS APR 11, 2017

PLANS EXAMINER DATE

Neither the issuance of a permit nor carrying out of inspections by the Town of Milton relieves the owner from full responsibility for compliance with the provisions of the Ontario Building Code Act and the Ontario Building Code, both as amended, as well as other applicable statutes and regulations of the Province of Ontario, By-laws of the Region of Halton and Town of Milton

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JUNIPER 7
BUILDING DIVISION

| ----- Floor Framing Material ----- | | | |
|------------------------------------|------|--------------------------------|--------|
| Type | Qty. | Product | Length |
| J1 | 10 | NJH12 | 16' 0" |
| J2 | 6 | NJH12 | 14' 0" |
| J3 | 3 | NJH12 | 12' 0" |
| J4 | 7 | NJH12 | 10' 0" |
| | | | |
| J6 | 5 | NJH12 | 4' 0" |
| J7 | 8 | NJ40U12 | 20' 0" |
| J9 | 3 | NJ60H12 | 20' 0" |
| J10 | 52 | NJ60H12 | 18' 0" |
| G1 | 1 | 1 3/4x11 7/8 West Fraser 2.0E- | 8' 0" |
| G2 | 1 | 1 3/4x11 7/8 West Fraser 2.0E- | 4' 0" |
| G3 | 1 | 1 3/4x11 7/8 West Fraser 2.0E- | 10' 0" |
| G4 | 2 | 1 3/4x11 7/8 West Fraser 2.0E- | 10' 0" |
| G5 | 1 | 1 3/4x11 7/8 West Fraser 2.0E- | 6' 0" |
| R1 | 17 | 11 7/8" RIMBOARD | 12' 0" |

| ----- Miscellaneous Materials ----- | | | |
|-------------------------------------|------|---------|--------|
| Type | Qty. | Product | Length |
| XXX | 1 | NJH12 | 12' 0" |
| XXX | 1 | NJ60H12 | 4' 0" |

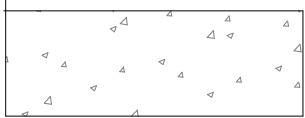
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DESIGN ASSUMPTIONS
=====

Loads:(un-factored)
T/C Live: 40 psf B/C Live: 0 psf
T/C Dead: 15 psf B/C Dead: 0 psf
Load Case: Live
Deflection Criteria:
L/480 Live L/360 Total
Building Code: OBC-2012 (Limit States Design
Building Type: Residential
Importance Category: Normal (Part 9)
Design assumes top edge continuously braced,
and bottom edge unbraced.
Joist Design Includes CCMC Vibration Check
Subfloor: 5/8" OSB Glued and Nailed
Ceiling: 1/2" gypsum
Blocking: (None)

All Loads are UN-FACTORED Loads

- NOTES:
1. Framer to verify dimensions on the architectural drawings.
 2. Double joist only require filler/backer ply when supporting another member using a face-mounted hanger.
 3. Install 2x4 blocking @ 24" o/c under parallel non-loadbearing walls.
 4. Install single-ply flush window header along inside face of rimboard/rimjoist.
 5. Refer to Nascor specifier guide for installation details.
 6. Squash blocks recommended to be installed at end bearing on all first level joists which support loading from above exceeding two levels floor or roof.
 7. Load transfer blocks to be installed under all point loads.
 8. It shall be the framer's responsibility that floor joists and beams are fastened as per the hanger manufacturer's standards.



HATCH AREA INDICATED REPRESENTS
CERAMIC TILED FLOOR WITH AN
ADDITIONAL DEAD LOAD OF 5.00 PSF

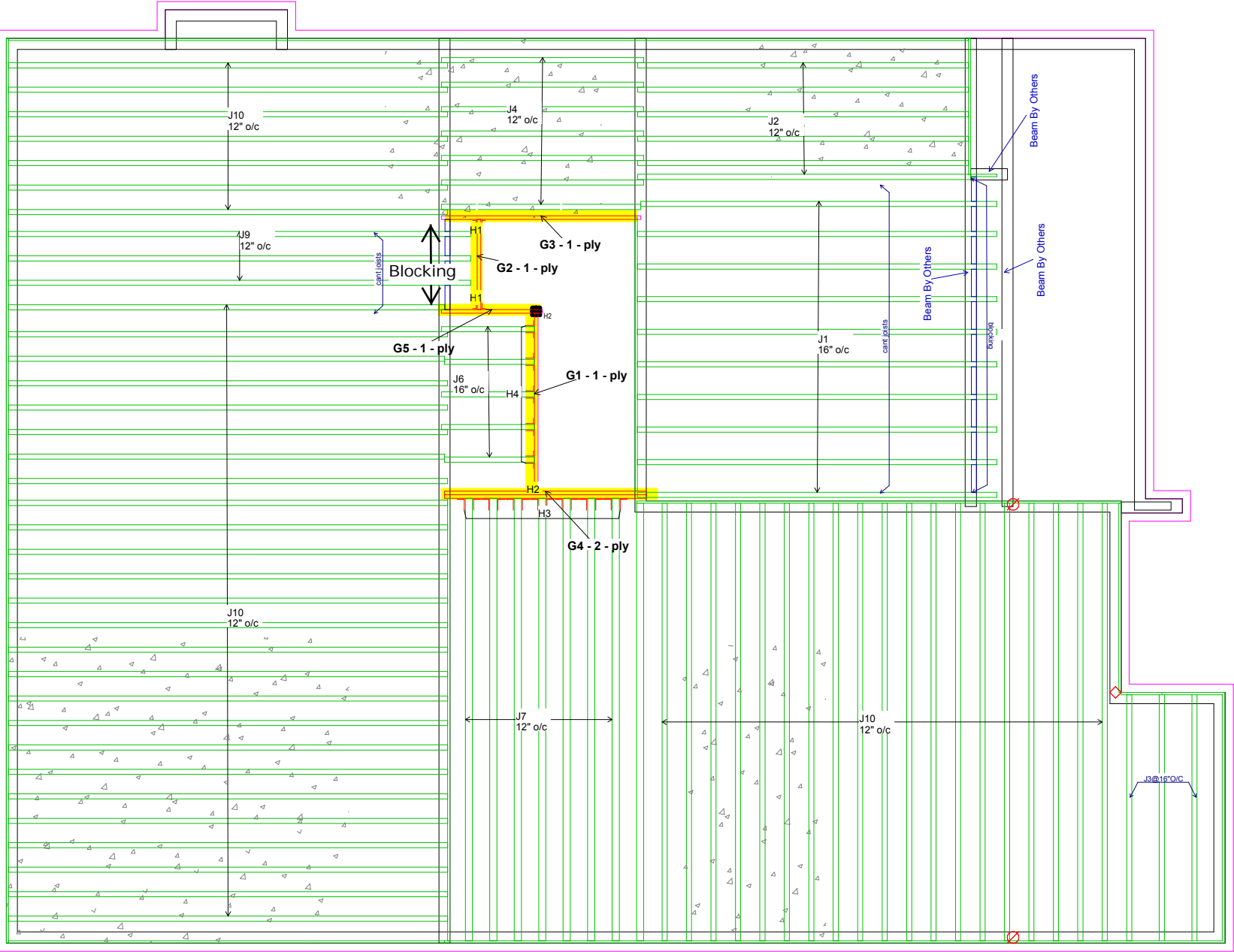
**PASS-THRU FRAMING SQUASH BLOCK
IS REQUIRED AT ALL POINT LOADS
OVER BEARINGS.**

**Refer to Multiple Member Connection
Detail to ply to ply nailing or bolting
requirements.**


--- Connector List ---

| ID# | Qty | Model Number |
|-----|-----|--------------|
| H1 | 2 | HUS1.81/10 |
| H2 | 1 | HUS1.81/10 |
| H3 | 7 | LT351188 |
| H4 | 5 | LT251188 |

Rim parallel to joists: 1-1/8" rimboard with
2"x4" block (1/16" longer than rim depth) @ 16" o/c.
All other components and structural elements supporting
the floor system such as beams, walls, columns and
foundation walls and footings including anchorage of
components and bracing for lateral stability are the
responsibility of others.



SECOND FLOOR FRAMING



TOWN OF MILTON

PLANNING AND DEVELOPMENT

JUNIPER 7 MODEL

BUILDING: REVIEWED

SCOTT SHERRIFFS

APR 11, 2017

PLANS EXAMINER

DATE

Neither the issuance of a permit nor carrying out of inspections by the Town of Milton relieves the owner from full responsibility for compliance with the provisions of the Ontario Building Code Act and the Ontario Building Code, both as amended, as well as other applicable statutes and regulations of the Province of Ontario, By-laws of the Region of Halton and Town of Milton

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Uxbridge, ON.
www.nascor.ca

Project Tag:

JUNIPER 7 EL - 2

GREEN PARK HOMES
LECCO RIDGE
MILTON, ON

SALESMAN: RM

Time: 07:54 AM
DATE: 10/31/16
Designer: SB
Not Scaled
License Name:
KEYMARK ENTERPRISES, INC.

| ----- Floor Framing Material ----- | | | |
|------------------------------------|------|--------------------------------|--------|
| Type | Qty. | Product | Length |
| J1 | 16 | NJH12 | 16' 0" |
| J3 | 3 | NJH12 | 12' 0" |
| J4 | 7 | NJH12 | 10' 0" |
| J6 | 5 | NJH12 | 4' 0" |
| J7 | 8 | NJ40U12 | 20' 0" |
| J9 | 3 | NJ60H12 | 20' 0" |
| J10 | 52 | NJ60H12 | 18' 0" |
| G1 | 1 | 1 3/4x11 7/8 West Fraser 2.0E- | 8' 0" |
| G2 | 1 | 1 3/4x11 7/8 West Fraser 2.0E- | 4' 0" |
| G3 | 1 | 1 3/4x11 7/8 West Fraser 2.0E- | 10' 0" |
| G4 | 2 | 1 3/4x11 7/8 West Fraser 2.0E- | 10' 0" |
| G5 | 1 | 1 3/4x11 7/8 West Fraser 2.0E- | 6' 0" |
| R1 | 17 | 11 7/8" RIMBOARD | 12' 0" |

| ----- Miscellaneous Materials ----- | | | |
|-------------------------------------|------|---------|--------|
| Type | Qty. | Product | Length |
| XXX | 1 | NJ60H12 | 4' 0" |

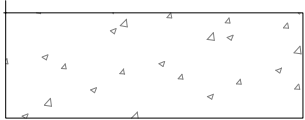
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DESIGN ASSUMPTIONS
=====

Loads:(un-factored)
T/C Live: 40 psf B/C Live: 0 psf
T/C Dead: 15 psf B/C Dead: 0 psf
Load Case: Live
Deflection Criteria:
L/480 Live L/360 Total
Building Code: OBC-2012 (Limit States Design
Building Type: Residential
Importance Category: Normal (Part 9)
Design assumes top edge continuously braced,
and bottom edge unbraced.
Joist Design Includes CCMC Vibration Check
Subfloor: 5/8" OSB Glued and Nailed
Ceiling: 1/2" gypsum
Blocking: (None)

All Loads are UN-FACTORED Loads

- NOTES:
1. Framers to verify dimensions on the architectural drawings.
 2. Double joist only require filler/backer ply when supporting another member using a face-mounted hanger.
 3. Install 2x4 blocking @ 24" o/c under parallel non-loadbearing walls.
 4. Install single-ply flush window header along inside face of rimboard/rimjoist.
 5. Refer to Nascor specifier guide for installation details.
 6. Squash blocks recommended to be installed at end bearing on all first level joists which support loading from above exceeding two levels floor or roof.
 7. Load transfer blocks to be installed under all point loads.
 8. It shall be the framer's responsibility that floor joists and beams are fastened as per the hanger manufacturer's standards.



HATCH AREA INDICATED REPRESENTS
CERAMIC TILED FLOOR WITH AN
ADDITIONAL DEAD LOAD OF 5.00 PSF

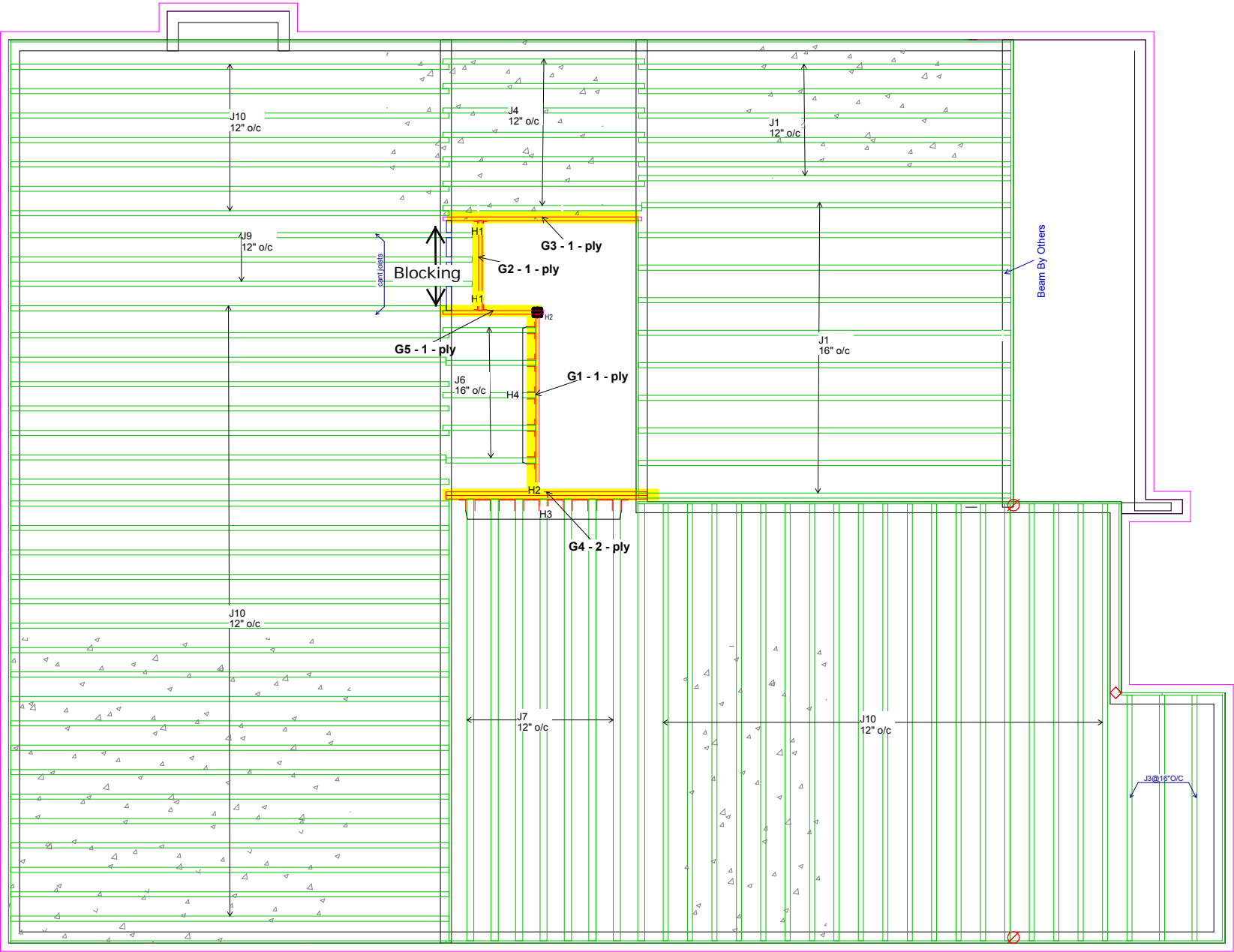
**PASS-THRU FRAMING SQUASH BLOCK
IS REQUIRED AT ALL POINT LOADS
OVER BEARINGS.**

**Refer to Multiple Member Connection
Detail to ply to ply nailing or bolting
requirements.**

--- Connector List ---

| ID# | Qty | Model Number |
|-----|-----|--------------|
| H1 | 2 | HUS1.81/10 |
| H2 | 1 | HUS1.81/10 |
| H3 | 7 | LT351188 |
| H4 | 5 | LT251188 |

Rim parallel to joists: 1-1/8" rimboard with
2"x4" block (1/16" longer than rim depth) @ 16" o/c.
All other components and structural elements supporting
the floor system such as beams, walls, columns and
foundation walls and footings including anchorage of
components and bracing for lateral stability are the
responsibility of others.



SECOND FLOOR FRAMING



TOWN OF MILTON

PLANNING AND DEVELOPMENT

JUNIPER 7 MODEL

BUILDING: REVIEWED

SCOTT SHERRIFFS

APR 11, 2017

PLANS EXAMINER

DATE

Neither the issuance of a permit nor carrying out of inspections by the Town of Milton relieves the owner from full responsibility for compliance with the provisions of the Ontario Building Code Act and the Ontario Building Code, both as amended, as well as other applicable statutes and regulations of the Province of Ontario, By-laws of the Region of Halton and Town of Milton

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MAR 29, 2017

JUNIPER 7

BUILDING DIVISION



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14 Anderson Blvd.
Uxbridge, ON.
www.nascor.ca

Project Tag:

JUNIPER 7 EL - 3

GREEN PARK HOMES
LECCO RIDGE
MILTON, ON

SALESMAN: RM

Time: 07:54 AM
DATE: 10/31/16
Designer: SB
Not Scaled
License Name:
KEYMARK ENTERPRISES, INC.

Member Data

Description: CalcG1

Comments:

Member Type: Girder

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Deflection Criteria: L/480 live, L/360 total

Deck Connection: Nailed

Filename: D:\SAUMIL\GR

Importance Category: Normal (Part 9)

Application: Floor

Building Code: OBC-2012

0.720" max. LL

Member Weight: 5.9 PLF

Standard Load:

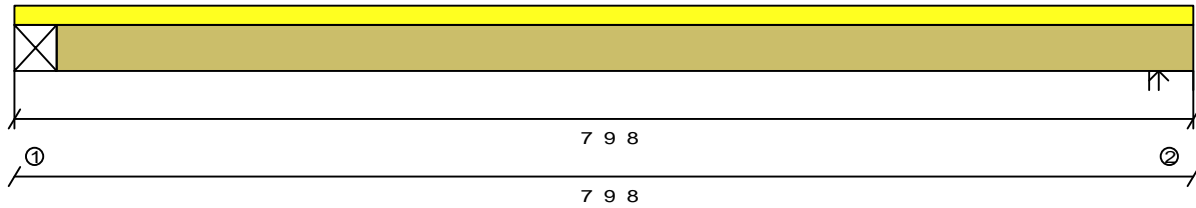
Live Load: 0 PLF

Dead Load: 0 PLF

Building Type: Residential

Other Loads

| Type (Description) | Side | Begin | End | Trib. Width | Other Start | End | Dead Start | End | Category |
|---------------------------|------|----------|----------|----------------|----------------|-----|---------------|-----|----------|
| Replacement Uniform (PLF) | Top | 0' 0.00" | 7' 9.50" | | 75 | | 28 | | Live |



Bearings and Factored Reactions

| | Location | Type | Material | Input Length | Min Required | Gravity Reaction | Gravity Uplift |
|---|-----------|--------|----------|-----------------|-----------------|---------------------|-------------------|
| 1 | 0' 0.000" | Girder | N/A | N/A | N/A | 564# | -- |
| 2 | 7' 9.500" | Wall | N/A | N/A | 1.500" | 564# | -- |

Maximum Unfactored Load Case Reactions

Used for applying point loads (or line loads) to carrying members

| | Live | Dead |
|---|------|------|
| 1 | 273# | 124# |
| 2 | 273# | 124# |

Design spans
7' 3.375"

Product: 1 3/4x11 7/8 West Fraser 2.0E-3100F 1 ply

PASSES DESIGN CHECKS

Design assumes continuous lateral bracing along the top chord.
Design assumes no lateral bracing along the bottom chord.

Limit States Design

| | Actual | Limit | Capacity | Location | Loading |
|-----------------|---------|----------|----------|----------|-----------------------|
| Positive Moment | 1027. # | 17693. # | 5% | 3.93' | Total Load 1.25D+1.5L |
| Shear | 411. # | 6908. # | 5% | 0.3' | Total Load 1.25D+1.5L |
| TL Deflection | 0.0181" | 0.2427" | L/999+ | 3.93' | Total Load D+L |
| LL Deflection | 0.0125" | 0.1820" | L/999+ | 3.93' | Total Load L |

(Actual is factored load effects, Limit is design resistance)

Bearing length from point load of top loaded beams assumed to be 3.50"

Control: TL Deflection

Minimum bearing length requirements at hanged connections depend on the connection style and are not included in this design.

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Pass-Thru Framing Squash Block is
required at all point loads over bearings

Refer to Multiple Member Connection
Detail for ply to ply nailing or bolting
requirements

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SB
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14 Anderson Blvd.
Uxbridge, ON.
www.nascor.ca

Member Data

Description: CalcG2

Comments:

Standard Load:

Live Load: 0 PLF

Dead Load: 0 PLF

Building Type: Residential

Member Type: Girder

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Deflection Criteria: L/480 live, L/360 total

Deck Connection: Nailed

Filename: D:\SAUMIL\GR

Importance Category: Normal (Part 9)

Application: Floor

Building Code: OBC-2012

0.720" max. LL

Member Weight: 5.9 PLF

Other Loads

Type

(Description)

Replacement Uniform (PLF)

Side

Top

Begin

0' 0.00"

End

3' 11.75"

Trib. Width

Other Start

240

End

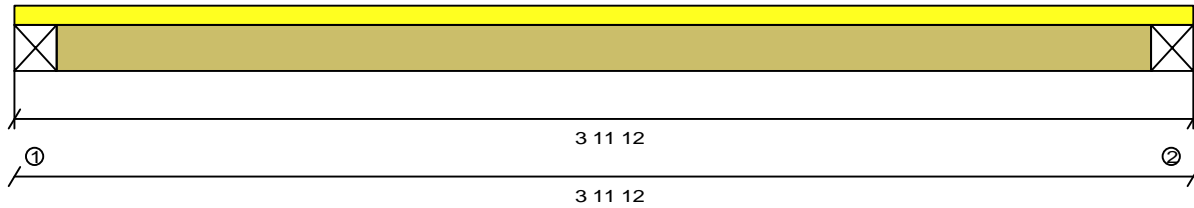
Dead Start

90

End

Category

Live



Bearings and Factored Reactions

| | Location | Type | Material | Input Length | Min Required | Gravity Reaction | Gravity Uplift |
|---|------------|--------|----------|--------------|--------------|------------------|----------------|
| 1 | 0' 0.000" | Girder | N/A | N/A | N/A | 885# | -- |
| 2 | 3' 11.750" | Girder | N/A | N/A | N/A | 885# | -- |

Maximum Unfactored Load Case Reactions

Used for applying point loads (or line loads) to carrying members

| | Live | Dead |
|---|------|------|
| 1 | 443# | 177# |
| 2 | 443# | 177# |

Design spans

3' 8.250"

Product: 1 3/4x11 7/8 West Fraser 2.0E-3100F 1 ply

PASSES DESIGN CHECKS

Design assumes continuous lateral bracing along the top chord.

Design assumes no lateral bracing along the bottom chord.

Limit States Design

| | Actual | Limit | Capacity | Location | Loading |
|-----------------|---------|----------|----------|----------|-----------------------|
| Positive Moment | 816. # | 17693. # | 4% | 1.99' | Total Load 1.25D+1.5L |
| Shear | 410. # | 6908. # | 5% | 2.91' | Total Load 1.25D+1.5L |
| TL Deflection | 0.0060" | 0.1229" | L/999+ | 1.99' | Total Load D+L |
| LL Deflection | 0.0043" | 0.0922" | L/999+ | 1.99' | Total Load L |

(Actual is factored load effects, Limit is design resistance)

Bearing length from point load of top loaded beams assumed to be 3.50"

Control: Shear

Minimum bearing length requirements at hanged connections depend on the connection style and are not included in this design.

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Pass-Thru Framing Squash Block is
required at all point loads over bearings

Refer to Multiple Member Connection
Detail for ply to ply nailing or bolting
requirements

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14 Anderson Blvd.
Uxbridge, ON.
www.nascor.ca

Member Data**Description: CalcG3**

Comments:

Member Type: Girder

Application: Floor

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Building Code: OBC-2012

Standard Load:

Live Load: 0 PLF

Deflection Criteria: L/480 live, L/360 total

0.720" max. LL

Dead Load: 0 PLF

Deck Connection: Nailed

Member Weight: 5.9 PLF

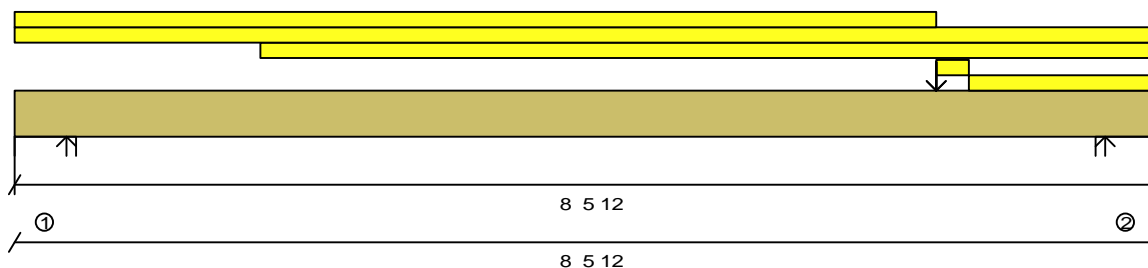
Filename: D:\SAUMIL\GR

Building Type: Residential

Importance Category: Normal (Part 9)

Other Loads**Type****(Description)**

| | Side | Begin | End | Trib. Width | Other Start | End | Dead Start | End | Category |
|---------------------------|------|-----------|-----------|----------------|----------------|-----|---------------|-----|----------|
| Replacement Uniform (PLF) | Top | 0' 0.00" | 6' 10.00" | | 9 | | 3 | | Live |
| Replacement Uniform (PLF) | Top | 0' 0.00" | 8' 5.75" | | 27 | | 10 | | Live |
| Additional Uniform (PLF) | Top | 1' 10.00" | 8' 5.75" | | 0 | | 7 | | Live |
| Replacement Uniform (PLF) | Top | 6' 10.00" | 7' 1.00" | | 9 | | 3 | | Live |
| Replacement Uniform (PLF) | Top | 7' 1.00" | 8' 5.75" | | 27 | | 10 | | Live |
| Point (LBS) | Top | 6' 10.00" | | | 192 | | 72 | | Live |
| Point (LBS) | Top | 6' 10.00" | | | 460 | | 199 | | Live |

**Bearings and Factored Reactions**

| | Location | Type | Material | Input Length | Min Required | Gravity Reaction | Gravity Uplift |
|---|-----------|------|----------|-----------------|-----------------|---------------------|-------------------|
| 1 | 0' 0.000" | Wall | N/A | N/A | 1.500" | 537# | -- |
| 2 | 8' 5.750" | Wall | N/A | N/A | 1.500" | 1464# | -- |

Maximum Unfactored Load Case Reactions

Used for applying point loads (or line loads) to carrying members

| | Live | Dead |
|---|------|------|
| 1 | 245# | 136# |
| 2 | 699# | 332# |

Design spans
7' 8.500"**Product: 1 3/4x11 7/8 West Fraser 2.0E-3100F 1 ply****PASSES DESIGN CHECKS**Design assumes continuous lateral bracing along the top chord.
Design assumes no lateral bracing along the bottom chord.**Limit States Design**

| | Actual | Limit | Capacity | Location | Loading |
|-----------------|---------|----------|----------|----------|-----------------------|
| Positive Moment | 1751.1# | 17693.1# | 9% | 6.82' | Total Load 1.25D+1.5L |
| Shear | 1345.1# | 6908.1# | 19% | 7.32' | Total Load 1.25D+1.5L |
| TL Deflection | 0.0313" | 0.2569" | L/999+ | 4.62' | Total Load D+L |
| LL Deflection | 0.0206" | 0.1927" | L/999+ | 4.62' | Total Load L |

(Actual is factored load effects, Limit is design resistance)

Bearing length from point load of top loaded beams assumed to be 3.50"

Control: Shear

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required at all point loads over bearings****Refer to Multiple Member Connection
Detail for ply to ply nailing or bolting
requirements****READ ALL NOTES ON THIS PAGE AND ON THE
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14 Anderson Blvd.
Uxbridge, ON.
www.nascor.ca

Member Data**Description:** CalcG4**Comments:**

Member Type: Girder

Application: Floor

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Building Code: OBC-2012

Standard Load:

Live Load: 0 PLF

Deflection Criteria: L/480 live, L/360 total

0.720" max. LL

Dead Load: 0 PLF

Deck Connection: Nailed

Member Weight: 11.8 PLF

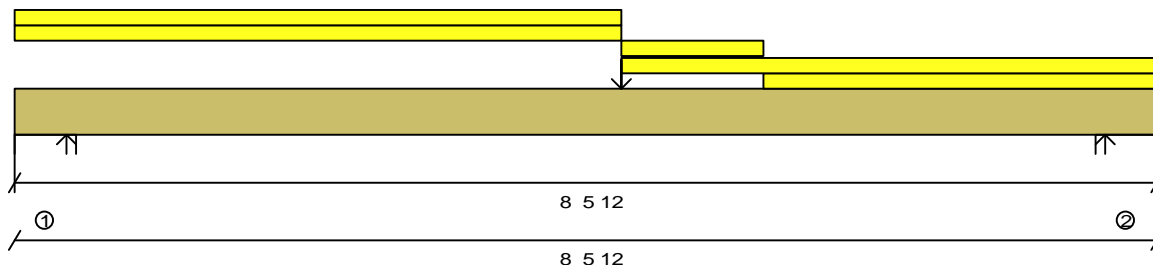
Filename: D:\SAUMIL\GR

Building Type: Residential

Importance Category: Normal (Part 9)

Other Loads**Type****(Description)**

| | Side | Begin | End | Trib. Width | Other Start | End | Dead Start | End | Category |
|---------------------------|------|----------|----------|----------------|----------------|-----|---------------|-----|----------|
| Replacement Uniform (PLF) | Top | 0' 0.00" | 4' 6.00" | | 9 | | 3 | | Live |
| Replacement Uniform (PLF) | Top | 0' 0.00" | 4' 6.00" | | 367 | | 137 | | Live |
| Replacement Uniform (PLF) | Top | 4' 6.00" | 5' 6.75" | | 367 | | 137 | | Live |
| Replacement Uniform (PLF) | Top | 4' 6.00" | 8' 5.75" | | 27 | | 10 | | Live |
| Replacement Uniform (PLF) | Top | 5' 6.75" | 8' 5.75" | | 367 | | 137 | | Live |
| Point (LBS) | Top | 4' 6.00" | | | 281 | | 158 | | Live |

**Bearings and Factored Reactions**

| | Location | Type | Material | Input Length | Min Required | Gravity Reaction | Gravity Uplift |
|---|-----------|------|----------|-----------------|-----------------|---------------------|-------------------|
| 1 | 0' 0.000" | Wall | N/A | N/A | 1.500" | 3225# | -- |
| 2 | 8' 5.750" | Wall | N/A | N/A | 1.500" | 3334# | -- |

Maximum Unfactored Load Case Reactions

Used for applying point loads (or line loads) to carrying members

| | Live | Dead |
|---|-------|------|
| 1 | 1593# | 668# |
| 2 | 1647# | 691# |

Design spans

7' 8.500"



23 MAR 2017

Product: 1 3/4x11 7/8 West Fraser 2.0E-3100F 2 ply**PASSES DESIGN CHECKS**

Design assumes continuous lateral bracing along the top chord.

Design assumes no lateral bracing along the bottom chord.

Compression edge maximum unbraced length calculation is based on ply width.

Limit States Design

| | Actual | Limit | Capacity | Location | Loading |
|-----------------|---------|----------|----------|----------|-----------------------|
| Positive Moment | 6884. # | 35386. # | 19% | 4.5' | Total Load 1.25D+1.5L |
| Shear | 2553. # | 13815. # | 18% | 7.32' | Total Load 1.25D+1.5L |
| TL Deflection | 0.0642" | 0.2569" | L/999+ | 4.24' | Total Load D+L |
| LL Deflection | 0.0450" | 0.1927" | L/999+ | 4.24' | Total Load L |

(Actual is factored load effects, Limit is design resistance)

Bearing length from point load of top loaded beams assumed to be 3.50"

Control: TL Deflection

Manufacturer's installation guide MUST be consulted for multi-ply connection details and alternatives

**Pass-Thru Framing Squash Block is
required at all point loads over bearings****Refer to Multiple Member Connection
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SB
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14 Anderson Blvd.
Uxbridge, ON.
www.nascor.ca

Member Data**Description: CalcG5**

Comments:

Member Type: Girder

Application: Floor

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Building Code: OBC-2012

Deflection Criteria: L/480 live, L/360 total

0.720" max. LL

Deck Connection: Nailed

Member Weight: 5.9 PLF

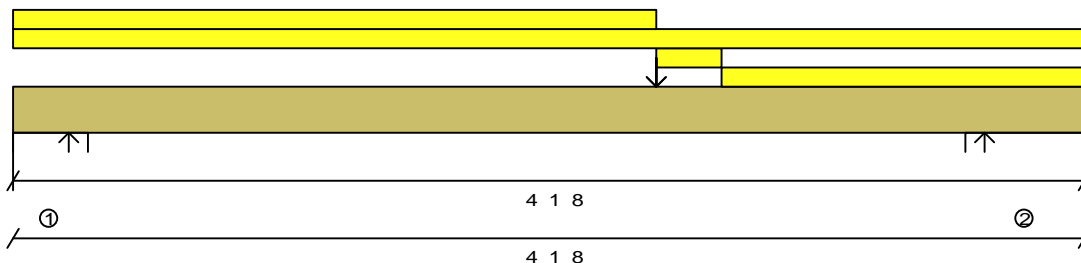
Filename: D:\SAUMIL\GR

Building Type: Residential

Importance Category: Normal (Part 9)

Other Loads**Type****(Description)**

| | Side | Begin | End | Trib. Width | Other Start | End | Dead Start | End | Category |
|---------------------------|------|----------|----------|----------------|----------------|-----|---------------|-----|----------|
| Replacement Uniform (PLF) | Top | 0' 0.00" | 2' 5.75" | | 9 | | 3 | | Live |
| Replacement Uniform (PLF) | Top | 0' 0.00" | 4' 1.50" | | 27 | | 10 | | Live |
| Replacement Uniform (PLF) | Top | 2' 5.75" | 2' 8.75" | | 9 | | 3 | | Live |
| Replacement Uniform (PLF) | Top | 2' 8.75" | 4' 1.50" | | 27 | | 10 | | Live |
| Point (LBS) | Top | 2' 5.75" | | | 192 | | 72 | | Live |
| Point (LBS) | Top | 2' 5.75" | | | 460 | | 199 | | Live |

**Bearings and Factored Reactions**

| | Location | Type | Material | Input Length | Min Required | Gravity Reaction | Gravity Uplift |
|---|-----------|------|----------|-----------------|-----------------|---------------------|-------------------|
| 1 | 0' 0.000" | Wall | N/A | N/A | 1.500" | 613# | -- |
| 2 | 4' 1.500" | Wall | N/A | N/A | 1.500" | 1012# | -- |

Maximum Unfactored Load Case Reactions

Used for applying point loads (or line loads) to carrying members

| | Live | Dead |
|---|------|------|
| 1 | 299# | 132# |
| 2 | 497# | 214# |

Design spans

3' 6.250"

Product: 1 3/4x11 7/8 West Fraser 2.0E-3100F 1 ply**PASSES DESIGN CHECKS**

Design assumes continuous lateral bracing along the top chord.

Design assumes no lateral bracing along the bottom chord.

Limit States Design

| | Actual | Limit | Capacity | Location | Loading |
|-----------------|---------|----------|----------|----------|-----------------------|
| Positive Moment | 1188. # | 17693. # | 6% | 2.48' | Total Load 1.25D+1.5L |
| Shear | 901. # | 6908. # | 13% | 2.86' | Total Load 1.25D+1.5L |
| TL Deflection | 0.0068" | 0.1174" | L/999+ | 2.16' | Total Load D+L |
| LL Deflection | 0.0048" | 0.0880" | L/999+ | 2.16' | Total Load L |

(Actual is factored load effects, Limit is design resistance)

Bearing length from point load of top loaded beams assumed to be 3.50"

Control: Shear

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