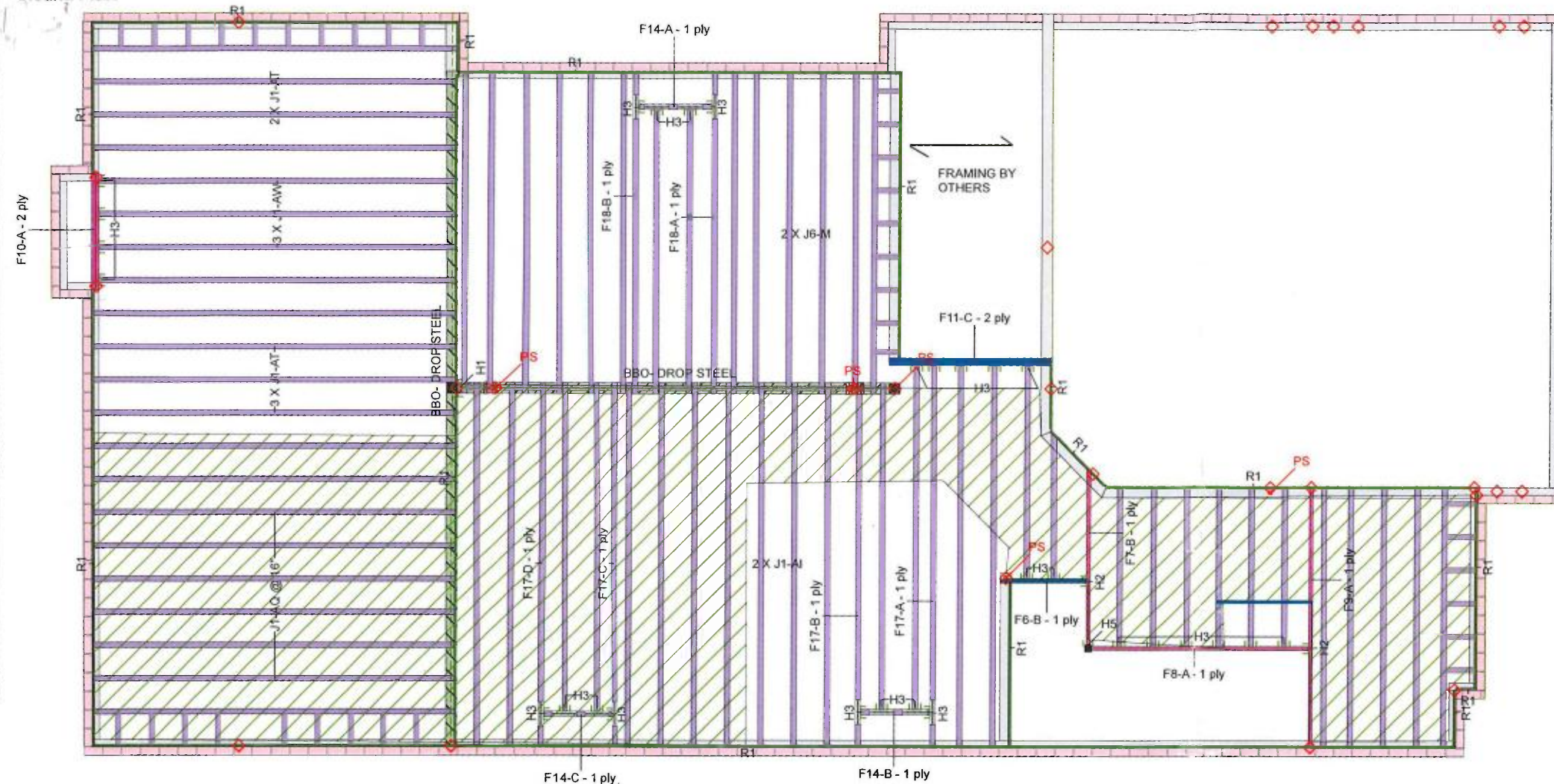


Ground Floor



This certification is to confirm that:

1. The loads used in the calculation of the attached approved components conform to the floor assembly shown on this layout.
 2. The floor joists comply with the KOTT span table for the loads and spacing shown on this layout.
- The floor system must be assembled in accordance to the KOTT Specifier Guide. Multi-ply members must be attached together as per the included multiple member connection detail.
- 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.

JARDIN DESIGN GROUP INC

64, Jardin Dr, Suite 3A
Vaughan, ON, L4K 3P3
Project # 17-55
Model: LOT-14 (AMELIA 3 EL-2)
Date: Dec 21, 2018

JOISTS SPACING 16" O/C
UNLESS
NOTED OTHERWISE

1. OBC 2012 O.Reg 332/12 as amended
2. Nascor CCMC - 13535-R
3. LVL CCMC -12904-R
4. CAN/CSA-O86-09
5. CCMC -12787-R APA PR-L310(C)



February 04, 2019

Ground Floor
LVL/LSL

| Label | Description | Width | Depth | Qty | Plies | Pcs | Length |
|-------|-----------------------|-------|--------|-----|-------|-----|--------|
| F9 | Forex 2.0E-3000Fb LVL | 1.75 | 11.875 | | | 1 | 12-0-0 |
| F8 | Forex 2.0E-3000Fb LVL | 1.75 | 11.875 | | | 1 | 10-0-0 |
| F11 | Forex 2.0E-3000Fb LVL | 1.75 | 11.875 | 1 | 2 | 2 | 8-0-0 |
| F7 | Forex 2.0E-3000Fb LVL | 1.75 | 11.875 | | | 1 | 8-0-0 |
| F10 | Forex 2.0E-3000Fb LVL | 1.75 | 11.875 | 1 | 2 | 2 | 6-0-0 |
| F6 | Forex 2.0E-3000Fb LVL | 1.75 | 11.875 | | | 1 | 4-0-0 |

Joist

| Label | Description | Width | Depth | Qty | Plies | Pcs | Length |
|-------|-------------|-------|--------|-----|-------|-----|--------|
| F17 | LPI 20Plus | 2.5 | 11.875 | | | 4 | 16-0-0 |
| F18 | LPI 20Plus | 2.5 | 11.875 | | | 2 | 14-0-0 |
| F14 | LPI 20Plus | 2.5 | 11.875 | | | 3 | 4-0-0 |
| J1 | LPI 20Plus | 2.5 | 11.875 | | | 32 | 16-0-0 |
| J6 | LPI 20Plus | 2.5 | 11.875 | | | 16 | 14-0-0 |
| J5 | LPI 20Plus | 2.5 | 11.875 | | | 7 | 12-0-0 |
| J4 | LPI 20Plus | 2.5 | 11.875 | | | 1 | 10-0-0 |
| J10 | LPI 20Plus | 2.5 | 11.875 | | | 6 | 8-0-0 |
| J2 | LPI 20Plus | 2.5 | 11.875 | | | 1 | 6-0-0 |

Rim Board

| Label | Description | Width | Depth | Qty | Plies | Pcs | Length |
|-------|--------------------------------------|-------|--------|-----|-------|-----|--------|
| R1 | Norbord Rimboard Plus 1.125 X 11.875 | 1.125 | 11.875 | | | 16 | 12 |

Hanger

| Label | Pcs | Description | Skew | Slope | fasteners | Supported Member |
|-------|-----|----------------|------|-------|--------------|------------------|
| H1 | 1 | Unknown Hanger | | | | |
| H2 | 2 | HUS1.81/10 | | | 30 10dx1 1/2 | 10 16d |
| H3 | 29 | LF2511 | | | 12 10d | 1 #8x1 1/4WS |
| H5 | 1 | HUS1.81/10 | | | | |

Blocking

| Label | Description | Width | Depth | Qty | Plies | Pcs | Length |
|-------|-------------|-------|--------|-------|-------|--------|--------|
| BLK1 | LPI 20 Plus | 2.5 | 11.875 | LinFt | | Varies | 45-0-0 |

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.

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

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.

Hatch area represents ceramic tiled floor with an additional dead load of 5 PSF.

The framing shown on this layout may deviate from the architectural drawings. Project Engineer to review and approve the deviation prior to construction.

Legend

| | |
|--------------------------------------|--------------------|
| PS | Point Load Support |
| Load from Above | |
| Wall | |
| Norbord Rimboard Plus 1.125 X 11.875 | |
| LPI 20Plus 11.875 | |
| Forex 2.0E-3000Fb LVL 1.75 X 11.875 | |
| 5.25 X 10.25 (Dropped) | |

NASCOR

Layout Name
LOT-14 (AMELIA 3 EL-2 - 1000RM)Design Method
LSDDescription
GREEN YORK HOMES
BRAMPTON, ONCreated
May 29, 2018

Builder

Sales Rep
RMDesigner
S B

Shipping

Project

Builder's Project

Kott Lumber Company

14 Anderson Blvd
Stouffville, Ontario
Canada
L4A 7X4
905-642-4400

Ground Floor

Design Method LSD

Building Code NBCC 2010 / OBC 2012

Floor

Loads

Live 40

Dead 15

Deflection Joist

LL Span L/ 480

TL Span L/ 360

LL Cant 2L/ 480

TL Cant 2L/ 360

Deflection Girder

LL Span L/ 360

TL Span L/ 240

LL Cant 2L/ 480

TL Cant 2L/ 360

Decking

Deck OSB

Thickness 3/4"

Fastener Nailed & Glued

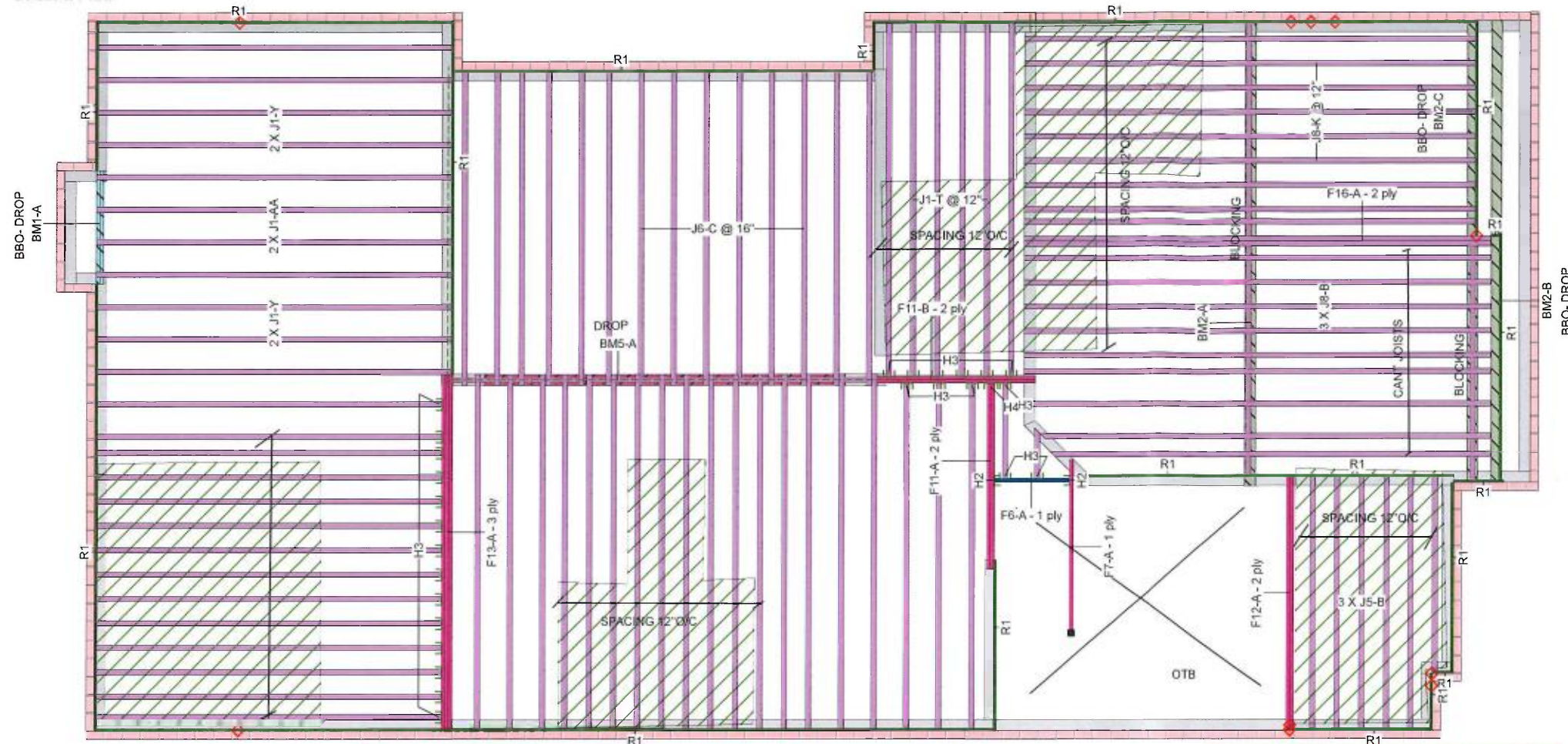
Vibration

M-2057

LOT 14

19-444 476.00.000

Second Floor



THIS CERTIFICATION IS TO CONFIRM THAT:

1. THE LOADS USED IN THE CALCULATION OF THE ATTACHED APPROVED COMPONENTS CONFORM TO THE FLOOR ASSEMBLY SHOWN ON THIS LAYOUT.

2. THE FLOOR JOISTS COMPLY WITH THE NASCOR SPAN TABLE FOR THE LOADS AND SPACING SHOWN ON THIS LAYOUT.

THE FLOOR SYSTEM MUST BE ASSEMBLED IN ACCORDANCE TO THE NASCOR SPECIFIER GUIDE. MULTI-PLY MEMBERS MUST BE ATTACHED TOGETHER AS PER THE INCLUDED MULTIPLE MEMBER CONNECTION DETAIL.

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.



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

REFER TO MULTIPLE MEMBER TO MEMBER CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS.

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

| Second Floor LVL/LSL (Flush) | | | | | | | |
|------------------------------|-----------------------|-------|--------|-----|-------|-----|--------|
| Label | Description | Width | Depth | Qty | Plies | Pcs | Length |
| F13 | Forex 2.0E-3000Fb LVL | 1.75 | 11.875 | 1 | 3 | 3 | 16-0-0 |
| F12 | Forex 2.0E-3000Fb LVL | 1.75 | 11.875 | 1 | 2 | 2 | 12-0-0 |
| F11 | Forex 2.0E-3000Fb LVL | 1.75 | 11.875 | 2 | 2 | 4 | 8-0-0 |
| F7 | Forex 2.0E-3000Fb LVL | 1.75 | 11.875 | | | 1 | 8-0-0 |
| F6 | Forex 2.0E-3000Fb LVL | 1.75 | 11.875 | | | 1 | 4-0-0 |

| LVL/LSL (Dropped) | | | | | | | |
|-------------------|-----------------------|-------|--------|-----|-------|-----|--------|
| Label | Description | Width | Depth | Qty | Plies | Pcs | Length |
| BM5 | Forex 2.0E-3000Fb LVL | 1.75 | 11.875 | 1 | 3 | 3 | 16-0-0 |

| Joist (Flush) | | | | | | | |
|---------------|-------------|-------|--------|-----|-------|-----|--------|
| Label | Description | Width | Depth | Qty | Plies | Pcs | Length |
| J8 | NJH | 2.5 | 11.875 | | | 18 | 20-0-0 |
| J1 | NJH | 2.5 | 11.875 | | | 50 | 16-0-0 |
| J6 | NJH | 2.5 | 11.875 | | | 14 | 14-0-0 |
| J5 | NJH | 2.5 | 11.875 | | | 5 | 12-0-0 |
| J3 | NJH | 2.5 | 11.875 | | | 1 | 8-0-0 |
| J9 | NJH | 2.5 | 11.875 | | | 2 | 4-0-0 |
| F16 | NJH | 2.5 | 11.875 | 1 | 2 | 2 | 20-0-0 |

| Rim Board | | | | | | | |
|-----------|--------------------------------------|-------|--------|-----|-------|-----|--------|
| Label | Description | Width | Depth | Qty | Plies | Pcs | Length |
| R1 | Norbord Rimboard Plus 1.125 X 11.875 | 1.125 | 11.875 | | | 17 | 12 |

| Blocking | | | | | | | |
|----------|-------------|-------|--------|-------|-------|--------|--------|
| Label | Description | Width | Depth | Qty | Plies | Pcs | Length |
| BLK1 | NJH | 2.5 | 11.875 | LinFt | | Varies | 34-0-0 |

| Hanger | | | | | | | |
|--------|-----|-------------|------|-------------|-----------|------------------|--|
| | | | | Beam/Girder | | Supported Member | |
| Label | Pcs | Description | Skew | Slope | fasteners | fasteners | |
| H2 | 2 | HUS1.81/10 | | | 30 16d | 10 16d | |
| H3 | 26 | LF2511 | | | 12 10d | 1 #8x1 1/4WS | |
| H4 | 1 | HGUS410 | | | 46 16d | 16 16d | |

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.

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

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.

Hatch area represents ceramic tiled floor with an additional dead load of 5 PSF.

The framing shown on this layout may deviate from the architectural drawings. Project Engineer to review and approve the deviation prior to construction.

Legend

| | |
|---|---|
| PS | Point Load Support |
| ◊ | Load from Above |
| Wall | Wall |
| Norbord Rimboard Plus 1.125 X 11.875 | Norbord Rimboard Plus 1.125 X 11.875 |
| NJH 11.875 | NJH 11.875 |
| Forex 2.0E-3000Fb LVL 1.75 X 11.875 (Dropped) | Forex 2.0E-3000Fb LVL 1.75 X 11.875 (Dropped) |
| Forex 2.0E-3000Fb LVL 1.75 X 11.875 | Forex 2.0E-3000Fb LVL 1.75 X 11.875 |
| 1.75 X 9.5 (Dropped) | 1.75 X 9.5 (Dropped) |
| 5 X 10.25 (Dropped) | 5 X 10.25 (Dropped) |

NASCOR

Layout Name
AMELIA 3 EL-1 & 2 5BEDRMDesign Method
LSDDescription
GREEN YORK HOMES
GRANELLI HOMES PROJECT
BRAMPTON, ONCreated
May 29, 2018

Builder

Sales Rep

Designer
S B

Shipping

Project

Builder's Project

Kott Lumber Company

14 Anderson Blvd
Stouffville, Ontario
Canada
L4A 7X4
905-642-4400

Second Floor

Design Method

Building Code NBCC 2010 / OBC 2012

Floor

Loads

Live 40

Dead 15

Deflection Joist

LL Span L/ 480

TL Span L/ 360

LL Cant 2L/ 480

TL Cant 2L/ 360

Deflection Girder

LL Span L/ 360

TL Span L/ 240

LL Cant 2L/ 480

TL Cant 2L/ 360

Decking

Deck OSB

Thickness 5/8"

Fastener Nailed & Glued

Vibration

Ceiling: Gypsum 1/2"

Architectural Drawing Info

JARDIN DESIGN GROUP
64 JARDIN DR, SUITE 3A
VAUGHAN, ON L4K 3P3
Project # 17-55
Model: AMELIA 3
Date: MAY 22, 2018

JOISTS SPACING 16" O/C
UNLESS
NOTED OTHERWISE

1. OBC 2012 O.Reg 332/12 as amended
2. Nascor CCMC - 13535-R
3. LVL CCMC - 12904-R
4. CAN/CSA-O86-09
5. CCMC - 12787-R APA PR-L310(C)

EWP Studio
Simpson Strong-Tie®
Component Solutions™

EWP Studio Version 18.32.085 Powered by iStruct™

This layout is to be used as an installation guide only. It is meant to be used in conjunction with the architectural and structural drawings, not to replace them

RECEIVED

MAR 06 2019

Building Division

KOTT

SIMPSON
Strong-Tie

Engineering Note Page (ENP-2)

REVISION 2018-10-17

M-2057

LOT 14

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 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 transfer blocks. Structural elements such as walls, posts, connectors, and transfer 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 floor joists is to be carried out in accordance with the current edition of the manufacturer's literature available at <http://www.kottgroup.com>.

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

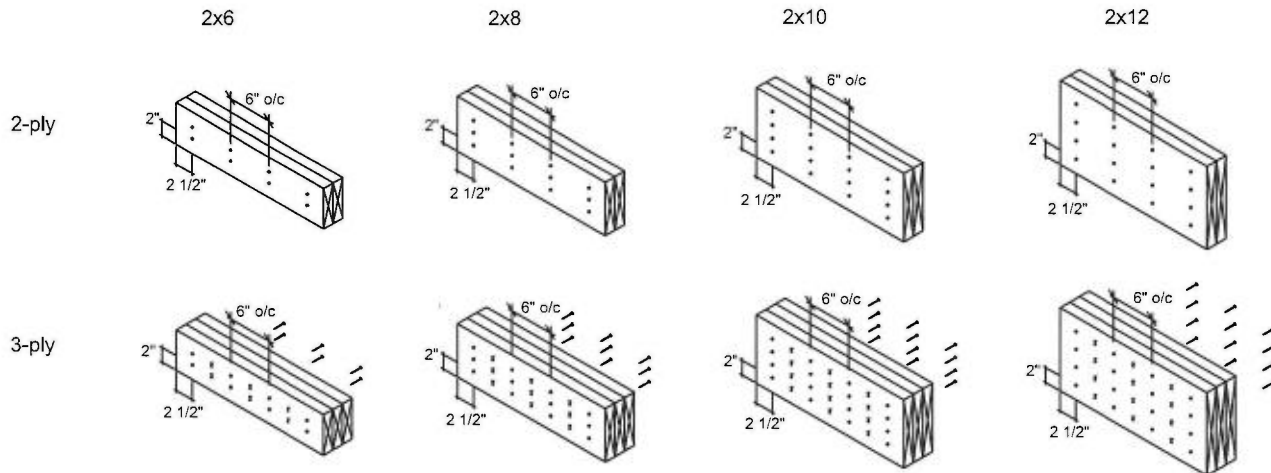
1. The building component used in construction must be the same as indicated on the drawings.
2. The building component must be installed and assembled as per specification shown on the drawing and in accordance with the manufacturer's assembly and installation.
3. Members consisting of multiple plies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



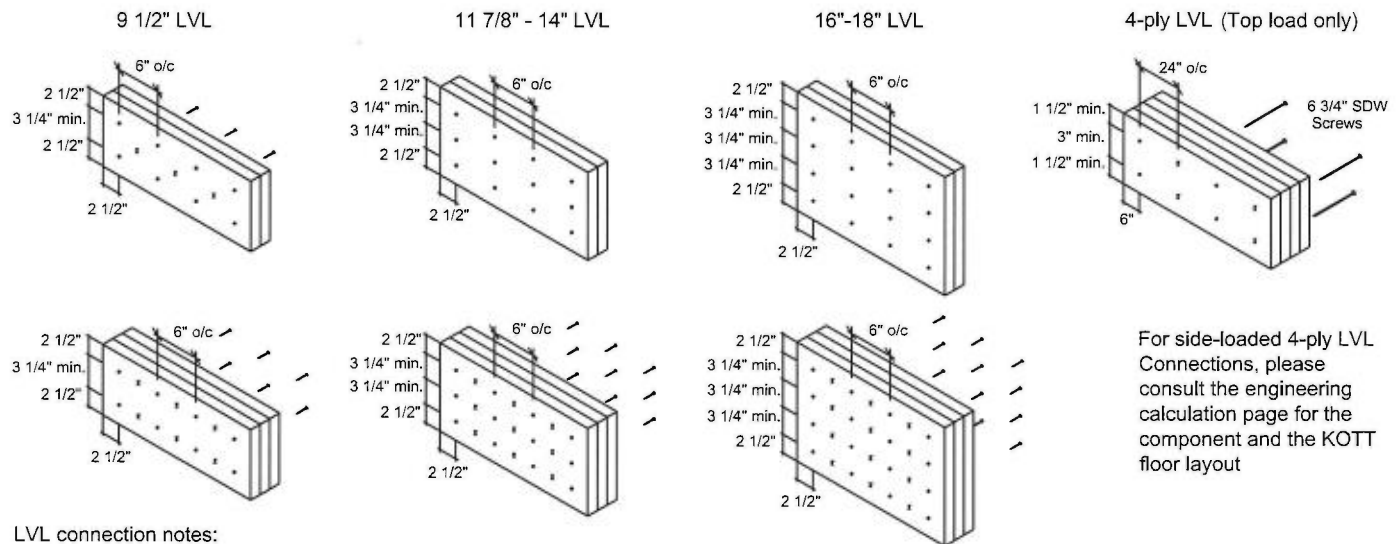
Conventional Connections



Conventional connection notes:

- Nails to be 3" long wire nails.
- Nails to be located 2" min. from the top and bottom of the member. Start all nails 2 1/2" min. from ends.
- Number of rows and spacing as per details shown, unless noted otherwise.
- "X" represents nail driven from the opposite side.

LVL Connections



LVL connection notes:

- LVL ply width is 1-3/4"
- Nails to be 3 1/2" common wire nails.
- Nails to be located 2 1/2" min. from the top and bottom of the member. Start all nails 2 1/2" min. 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.

For side-loaded 4-ply LVL Connections, please consult the engineering calculation page for the component and the KOTT floor layout

Multiple Member Connections

All connections are for uniformly distributed loads.

For multi-ply connections of I-joists, refer to Manufacturer's Installation Guide



KOTT Inc.
3228 Moodie Drive
Ottawa, ON
K2H 7V1
613-838-2775



isDesign™

Client:
Project:
Address:

F-GREEN YORK HOMES- LOT 14 (AMELIA 3 EL-2)

Date: 1/29/2019

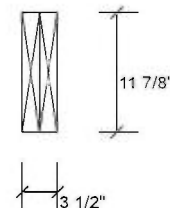
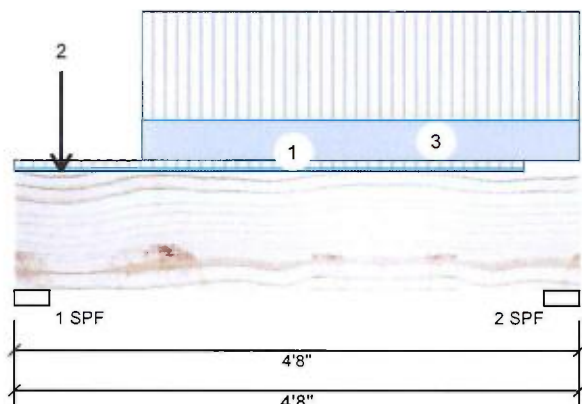
IM0219-003

Page 1 of 1

Designer: S B

Job Name: LOT-14 (AMELIA 3 EL-2_4BEDRM)

Project #:

F10-A Forex 2.0E-3000Fb LVL 1.750" X 11.875" 2-Ply - PASSED Level: Ground Floor**Member Information**

| | | | |
|---------------------|--------|----------------|----------------------|
| Type: | Girder | Application: | Floor (Residential) |
| Plies: | 2 | Design Method: | LSD |
| Moisture Condition: | Dry | Building Code: | NBCC 2010 / OBC 2012 |
| Deflection LL: | 360 | Load Sharing: | No |
| Deflection TL: | 240 | Deck: | Not Checked |
| Importance: | Normal | Vibration: | Not Checked |
| General Load | | | |
| Floor Live: | 40 PSF | | |
| Dead: | 15 PSF | | |

Unfactored Reactions UNPATTERNED lb (Uplift)

| Brg | Live | Dead | Snow | Wind |
|-----|------|------|------|------|
| 1 | 836 | 336 | 0 | 0 |
| 2 | 761 | 308 | 0 | 0 |

Bearings and Factored Reactions

| Bearing | Length | Cap. React | D/L lb | Total | Ld. Case | Ld. Comb. |
|---------|--------|------------|------------|-------|----------|------------|
| 1 - SPF | 3.500" | 22% | 419 / 1254 | 1673 | L | 1.25D+1.5L |
| 2 - SPF | 3.500" | 20% | 384 / 1141 | 1526 | L | 1.25D+1.5L |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|---------------|-----------------|-----------|---------------|-------------|------------|---------|
| Moment | 1441 ft-lb | 2'4 3/8" | 34261 ft-lb | 0.042 (4%) | 1.25D+1.5L | L |
| Unbraced | 1441 ft-lb | 2'4 3/8" | 34261 ft-lb | 0.042 (4%) | 1.25D+1.5L | L |
| Shear | 2109 lb | 1'2 5/8" | 11596 lb | 0.182 (18%) | 1.25D+1.5L | L |
| Perm Defl in. | 0.002 (L/28861) | 2'4 3/16" | 0.140 (L/360) | 0.010 (1%) | D | Uniform |
| LL Defl inch | 0.004 (L/11672) | 2'4 1/4" | 0.140 (L/360) | 0.030 (3%) | L | L |
| TL Defl inch | 0.006 (L/8311) | 2'4 1/4" | 0.210 (L/240) | 0.030 (3%) | D+L | L |

Design Notes

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



February 04, 2019

| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|----|---------------|-----------------|-------------|-----------|---------|---------|-------|-------|----------|
| 1 | Tie-In | 0-0-0 to 4-2-8 | (Span)1-2-0 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 2 | Point | 0-4-10 | | Near Face | 139 lb | 371 lb | 0 lb | 0 lb | J1 |
| 3 | Part. Uniform | 1-0-10 to 4-8-0 | | Near Face | 117 PLF | 312 PLF | 0 PLF | 0 PLF | |

Self Weight **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

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.

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

- Dry service conditions, unless noted otherwise
- LVL not to be treated with fire retardant or corrosive

Handling & Installation

- LVL beams must not be cut or drilled
- Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
- Damaged Beams must not be used
- Design assumes top edge is laterally restrained
- Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Forex
APA: PR-L318

Kott Lumber Company
14 Anderson Blvd, Ontario
Canada
L4A 7X4
905-642-4400



This design is valid until 10/18/2021





isDesign™

Client:
Project:
Address:

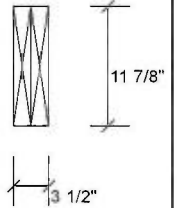
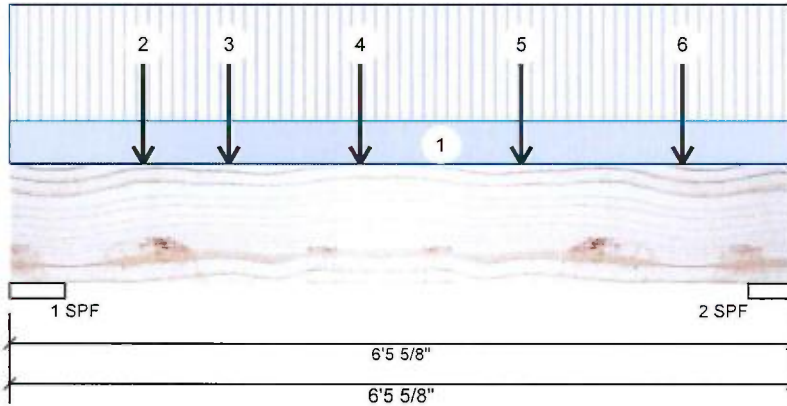
F-GREEN YORK HOMES- LOT 14 (AMELIA 3 EL-2)

IM0219-003

Date: 1/29/2019
Designer: S B
Job Name: LOT-14 (AMELIA 3 EL-2 _4BEDRM)
Project #:

Page 1 of 1

F11-C Forex 2.0E-3000Fb LVL 1.750" X 11.875" 2-Ply - PASSED Level: Ground Floor



Member Information

| | | | |
|---------------------|--------|----------------|----------------------|
| Type: | Girder | Application: | Floor (Residential) |
| Plies: | 2 | Design Method: | LSD |
| Moisture Condition: | Dry | Building Code: | NBCC 2010 / OBC 2012 |
| Deflection LL: | 360 | Load Sharing: | No |
| Deflection TL: | 240 | Deck: | Not Checked |
| Importance: | Normal | Vibration: | Not Checked |
| General Load | | | |
| Floor Live: | 40 PSF | | |
| Dead: | 15 PSF | | |

Unfactored Reactions UNPATTERNED lb (Uplift)

| Brg | Live | Dead | Snow | Wind |
|-----|------|------|------|------|
| 1 | 972 | 443 | 0 | 0 |
| 2 | 834 | 392 | 0 | 0 |

Bearings and Factored Reactions

| Bearing | Length | Cap. React D/L lb | Total Ld. Case | Ld. Comb. |
|---------|--------|-------------------|----------------|-------------------|
| 1 - SPF | 5.500" | 17% | 554 / 1458 | 2012 L 1.25D+1.5L |
| 2 - SPF | 4.375" | 18% | 489 / 1251 | 1740 L 1.25D+1.5L |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|---------------|-----------------|------------|---------------|-------------|------------|---------|
| Moment | 2940 ft-lb | 2'10 3/4" | 34261 ft-lb | 0.086 (9%) | 1.25D+1.5L | L |
| Unbraced | 2940 ft-lb | 2'10 3/4" | 32711 ft-lb | 0.090 (9%) | 1.25D+1.5L | L |
| Shear | 1886 lb | 1'4 5/8" | 11596 lb | 0.163 (16%) | 1.25D+1.5L | L |
| Perm Defl in. | 0.006 (L/12240) | 3'1 11/16" | 0.192 (L/360) | 0.030 (3%) | D | Uniform |
| LL Defl inch | 0.012 (L/5587) | 3'1 3/8" | 0.192 (L/360) | 0.060 (6%) | L | L |
| TL Defl inch | 0.018 (L/3836) | 3'1 1/2" | 0.289 (L/240) | 0.060 (6%) | D+L | L |

Design Notes

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

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.



February 04, 2019

| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|----|---------------|-----------------|------------|-----------|--------|--------|-------|-------|----------|
| 1 | Part. Uniform | 0-0-0 to 6-5-10 | | Top | 15 PLF | 40 PLF | 0 PLF | 0 PLF | |
| 2 | Point | 1-1-4 | | Near Face | 123 lb | 288 lb | 0 lb | 0 lb | J6 |
| 3 | Point | 1-9-12 | | Near Face | 129 lb | 303 lb | 0 lb | 0 lb | F17 |
| 4 | Point | 2-10-12 | | Near Face | 159 lb | 368 lb | 0 lb | 0 lb | J1 |
| 5 | Point | 4-2-12 | | Near Face | 171 lb | 387 lb | 0 lb | 0 lb | J1 |
| 6 | Point | 5-6-12 | | Near Face | 94 lb | 201 lb | 0 lb | 0 lb | J1 |
| | Self Weight | | | | 10 PLF | | | | |

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

Notes

Calculated Structural Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

- Dry service conditions, unless noted otherwise
- LVL not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

- LVL beams must not be cut or drilled
- Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
- Damaged Beams must not be used
- Design assumes top edge is laterally restrained
- Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Forex
APA: PR-L318

Kott Lumber Company
14 Anderson Blvd, Ontario
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905-642-4400

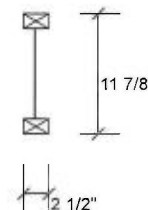
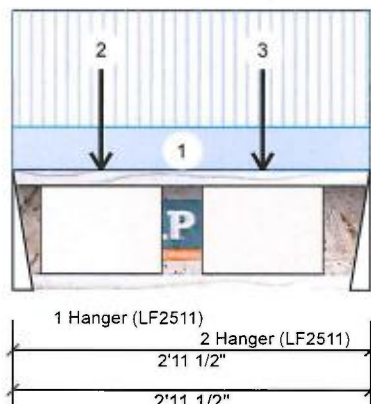


This design is valid until 10/18/2021



F14-A LPI 20Plus 11.875" - PASSED

Level: Ground Floor


Member Information

| | | | |
|---------------------|--------|----------------|----------------------|
| Type: | Girder | Application: | Floor (Residential) |
| Plies: | 1 | Design Method: | LSD |
| Moisture Condition: | Dry | Building Code: | NBCC 2010 / OBC 2012 |
| Deflection LL: | 360 | Load Sharing: | No |
| Deflection TL: | 240 | Deck: | Not Checked |
| Importance: | Normal | Vibration: | Not Checked |
| General Load | | | |
| Floor Live: | 40 PSF | | |
| Dead: | 15 PSF | | |

Unfactored Reactions UNPATTERNED lb (Uplift)

| Brg | Live | Dead | Snow | Wind |
|-----|------|------|------|------|
| 1 | 303 | 114 | 0 | 0 |
| 2 | 281 | 106 | 0 | 0 |

Bearings and Factored Reactions

| Bearing | Length | Cap. React D/L lb | Total Ld. Case | Ld. Comb. |
|------------|--------|-------------------|----------------|------------|
| 1 - Hanger | 2.000" | 37% 142 / 454 | 596 L | 1.25D+1.5L |
| 2 - Hanger | 2.000" | 35% 132 / 422 | 554 L | 1.25D+1.5L |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|-------------------------|----------------|----------|---------------|-------------|------------|---------|
| Moment | 416 ft-lb | 2' 3/4" | 6250 ft-lb | 0.067 (7%) | 1.25D+1.5L | L |
| Shear | 590 lb | 1' 1/4" | 2345 lb | 0.252 (25%) | 1.25D+1.5L | L |
| Perm Defl in. (L/18574) | 0.002 | 1'8 1/2" | 0.092 (L/360) | 0.020 (2%) | D | Uniform |
| LL Defl inch | 0.005 (L/6992) | 1'8 1/2" | 0.092 (L/360) | 0.050 (5%) | L | L |
| TL Defl inch | 0.006 (L/5080) | 1'8 1/2" | 0.137 (L/240) | 0.050 (5%) | D+L | L |

Design Notes

- 1 Provide restraint at supports to ensure lateral stability.
- 2 Dead Load Deflection: Instant = 0.002", Long Term = 0.003"
- 3 Fill all hanger nailing holes.
- 4 See manufacture installation guide note E4 for installation details
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top flange braced at bearings.
- 7 Bottom flange braced at bearings.



February 04, 2019

| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|----|-----------|-----------------|-------------|-----------|--------|--------|-------|-------|----------|
| 1 | Tie-In | 0-0-0 to 2-11-8 | (Span)1-4-9 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 2 | Point | 0-8-12 | | Near Face | 91 lb | 242 lb | 0 lb | 0 lb | J5 |
| 3 | Point | 2-0-12 | | Near Face | 98 lb | 260 lb | 0 lb | 0 lb | J5 |

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
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.
Notes

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Manufacturer Info

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CCMC: 12412-R APA: PR-L238C

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F-GREEN YORK HOMES- LOT 14 (AMELIA 3 EL-2)

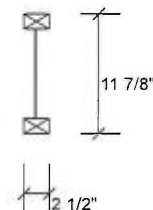
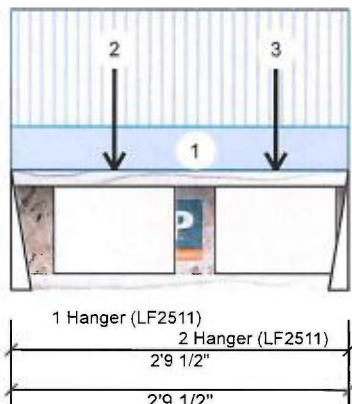
IM0219-003

Date: 1/29/2019
Designer: S B
Job Name: LOT-14 (AMELIA 3 EL-2_4BEDRM)
Project #:

Page 1 of 1

F14-B LPI 20Plus 11.875" - PASSED

Level: Ground Floor

**Member Information**

| | | | |
|---------------------|--------|----------------|----------------------|
| Type: | Girder | Application: | Floor (Residential) |
| Plies: | 1 | Design Method: | LSD |
| Moisture Condition: | Dry | Building Code: | NBCC 2010 / OBC 2012 |
| Deflection LL: | 360 | Load Sharing: | No |
| Deflection TL: | 240 | Deck: | Not Checked |
| Importance: | Normal | Vibration: | Not Checked |
| General Load | | | |
| Floor Live: | 40 PSF | | |
| Dead: | 15 PSF | | |

Unfactored Reactions UNPATTERNED lb (Uplift)

| Brg | Live | Dead | Snow | Wind |
|-----|------|------|------|------|
| 1 | 302 | 116 | 0 | 0 |
| 2 | 351 | 136 | 0 | 0 |

Bearings and Factored Reactions

| Bearing | Length | Cap. React | D/L lb | Total | Ld. Case | Ld. Comb. |
|------------|--------|------------|-----------|-------|----------|------------|
| 1 - Hanger | 2.000" | 38% | 145 / 453 | 598 | L | 1.25D+1.5L |
| 2 - Hanger | 2.000" | 44% | 170 / 527 | 697 | L | 1.25D+1.5L |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|---------------|-----------------|----------|---------------|-------------|------------|---------|
| Moment | 429 ft-lb | 10 1/4" | 6250 ft-lb | 0.069 (7%) | 1.25D+1.5L | L |
| Shear | 691 lb | 2'8 1/4" | 2345 lb | 0.295 (29%) | 1.25D+1.5L | L |
| Perm Defl in. | 0.002 (L/17290) | 1' 5/8" | 0.086 (L/360) | 0.020 (2%) | D | Uniform |
| LL Defl inch | 0.005 (L/6655) | 1' 1/2" | 0.086 (L/360) | 0.050 (5%) | L | L |
| TL Defl inch | 0.006 (L/4805) | 1' 9/16" | 0.129 (L/240) | 0.050 (5%) | D+L | L |

Design Notes

- 1 Provide restraint at supports to ensure lateral stability.
- 2 Dead Load Deflection: Instant = 0.002", Long Term = 0.003"
- 3 Fill all hanger nailing holes.
- 4 See manufacture installation guide note E4 for installation details
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top flange braced at bearings.
- 7 Bottom flange braced at bearings.

| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|----|-----------|----------------|-------------|----------|--------|--------|-------|-------|----------|
| 1 | Tie-In | 0-0-0 to 2-9-8 | (Span)1-4-9 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 2 | Point | 0-10-4 | | Far Face | 113 lb | 294 lb | 0 lb | 0 lb | J6 |
| 3 | Point | 2-2-4 | | Far Face | 110 lb | 282 lb | 0 lb | 0 lb | J6 |

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

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.

Notes

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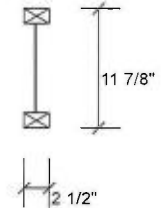
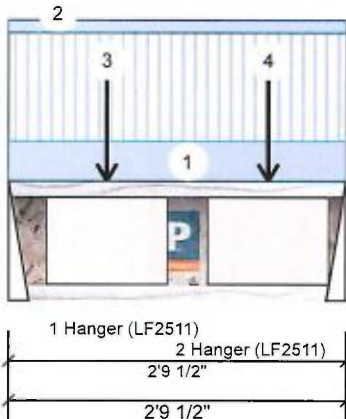
IM0219-003

Date: 1/29/2019
Designer: S B
Job Name: LOT-14 (AMELIA 3 EL-2_4BEDRM)
Project #:

Page 1 of 1

F14-C LPI 20Plus 11.875" - PASSED

Level: Ground Floor

**Member Information**

| | | | |
|---------------------|--------|----------------|----------------------|
| Type: | Girder | Application: | Floor (Residential) |
| Plies: | 1 | Design Method: | LSD |
| Moisture Condition: | Dry | Building Code: | NBCC 2010 / OBC 2012 |
| Deflection LL: | 360 | Load Sharing: | No |
| Deflection TL: | 240 | Deck: | Not Checked |
| Importance: | Normal | Vibration: | Not Checked |
| General Load | | | |
| Floor Live: | 40 PSF | | |
| Dead: | 15 PSF | | |

Unfactored Reactions UNPATTERNED lb (Uplift)

| Brg | Live | Dead | Snow | Wind |
|-----|------|------|------|------|
| 1 | 304 | 148 | 0 | 0 |
| 2 | 328 | 161 | 0 | 0 |

Bearings and Factored Reactions

| Bearing | Length | Cap. React D/L lb | Total | Ld. Case | Ld. Comb. |
|------------|--------|-------------------|-----------|----------|------------|
| 1 - Hanger | 2.000" | 40% | 185 / 455 | 640 L | 1.25D+1.5L |
| 2 - Hanger | 2.000" | 44% | 202 / 492 | 694 L | 1.25D+1.5L |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|-------------------------|-----------|-----------|---------------|-------------|------------|---------|
| Moment | 436 ft-lb | 9 3/4" | 6250 ft-lb | 0.070 (7%) | 1.25D+1.5L | L |
| Shear | 689 lb | 2'8 1/4" | 2345 lb | 0.294 (29%) | 1.25D+1.5L | L |
| Perm Defl in. (L/14174) | 0.002 | 1'1 9/16" | 0.086 (L/360) | 0.030 (3%) | D | Uniform |
| LL Defl inch (L/6920) | 0.004 | 1'1 3/8" | 0.086 (L/360) | 0.050 (5%) | L | L |
| TL Defl inch (L/4650) | 0.007 | 1'1 7/16" | 0.129 (L/240) | 0.050 (5%) | D+L | L |

Design Notes

- 1 Provide restraint at supports to ensure lateral stability.
- 2 Dead Load Deflection: Instant = 0.002", Long Term = 0.003"
- 3 Fill all hanger nailing holes.
- 4 See manufacture installation guide note E4 for installation details
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top flange braced at bearings.
- 7 Bottom flange braced at bearings.



February 04, 2019

| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|----|---------------|----------------|-------------|----------|--------|--------|-------|-------|----------|
| 1 | Tie-In | 0-0-0 to 2-9-8 | (Span)1-3-7 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 2 | Part. Uniform | 0-0-0 to 2-9-8 | | Top | 3 PLF | 0 PLF | 0 PLF | 0 PLF | |
| 3 | Point | 0-9-12 | | Far Face | 141 lb | 291 lb | 0 lb | 0 lb | J6 |
| 4 | Point | 2-1-12 | | Far Face | 133 lb | 269 lb | 0 lb | 0 lb | J6 |

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****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.****Notes**

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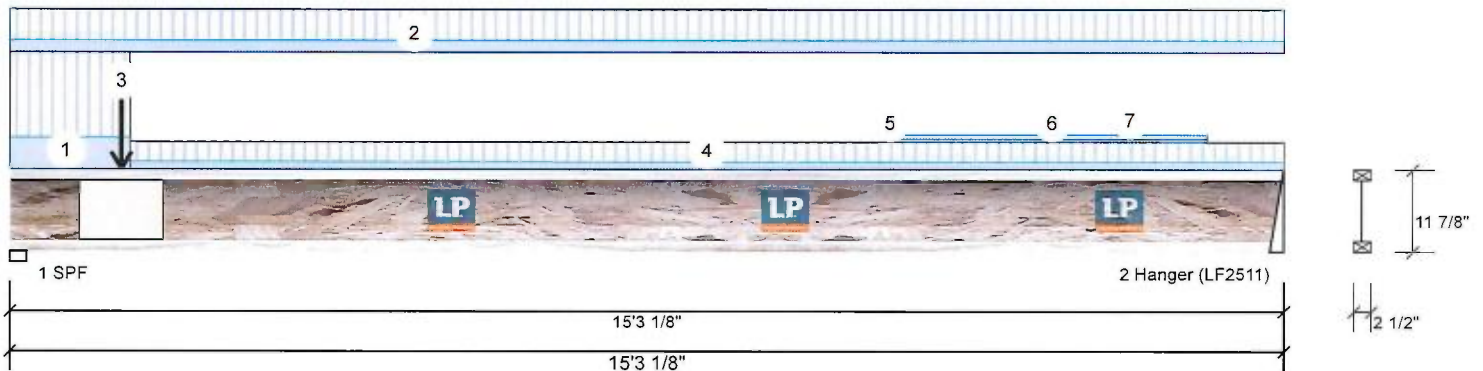
Date: 1/29/2019
Designer: S B
Job Name: LOT-14 (AMELIA 3 EL-2_4BEDRM)
Project #:

IM0219-003

Page 1 of 1

F17-A LPI 20Plus 11.875" - PASSED

Level: Ground Floor

**Member Information**

| | | | |
|---------------------|--------|----------------|----------------------|
| Type: | Girder | Application: | Floor (Residential) |
| Plies: | 1 | Design Method: | LSD |
| Moisture Condition: | Dry | Building Code: | NBCC 2010 / OBC 2012 |
| Deflection LL: | 360 | Load Sharing: | No |
| Deflection TL: | 240 | Deck: | Not Checked |
| Importance: | Normal | Vibration: | Not Checked |
| General Load | | | |
| Floor Live: | 40 PSF | | |
| Dead: | 15 PSF | | |

Unfactored Reactions UNPATTERNED lb (Uplift)

| Brg | Live | Dead | Snow | Wind |
|-----|------|------|------|------|
| 1 | 660 | 255 | 0 | 0 |
| 2 | 303 | 129 | 0 | 0 |

Bearings and Factored Reactions

| Bearing | Length | Cap. React D/L lb | Total Ld. Case | Ld. Comb. |
|------------|--------|-------------------|----------------|-------------------|
| 1 - SPF | 2.375" | 80% | 319 / 990 | 1309 L 1.25D+1.5L |
| 2 - Hanger | 2.000" | 39% | 162 / 455 | 617 L 1.25D+1.5L |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|---------------|----------------|-----------|---------------|-------------|------------|---------|
| Moment | 2499 ft-lb | 6'10 1/8" | 6250 ft-lb | 0.400 (40%) | 1.25D+1.5L | L |
| Shear | 1287 lb | 1 5/8" | 2345 lb | 0.549 (55%) | 1.25D+1.5L | L |
| Perm Defl in. | 0.075 (L/2418) | 7'5 1/4" | 0.501 (L/360) | 0.150 (15%) | D | Uniform |
| LL Defl inch | 0.187 (L/964) | 7'4 3/8" | 0.501 (L/360) | 0.370 (37%) | L | L |
| TL Defl inch | 0.261 (L/689) | 7'4 5/8" | 0.751 (L/240) | 0.350 (35%) | D+L | L |

Design Notes

- 1 Provide restraint at supports to ensure lateral stability.
- 2 Dead Load Deflection: Instant = 0.075", Long Term = 0.112"
- 3 Fill all hanger nailing holes.
- 4 See manufacture installation guide note E4 for installation details
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top flange must be laterally braced at a maximum of 6'7" o.c.
- 7 Bottom flange braced at 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 CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



February 04, 2019

| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|----|---------------|------------------|-------------|----------|--------|--------|-------|-------|----------|
| 1 | Tie-In | 0-0-0 to 1-5-4 | (Span)3-0-0 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 2 | Tie-In | 0-0-0 to 15-3-2 | (Span)1-1-0 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 3 | Point | 1-4-0 | | Far Face | 136 lb | 351 lb | 0 lb | 0 lb | F14 |
| 4 | Tie-In | 1-5-4 to 15-3-2 | (Span)0-8-8 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 5 | Tapered Start | 10-5-10 | | Top | 0 PLF | 0 PLF | 0 PLF | 0 PLF | |
| | End | 10-7-7 | | Top | 1 PLF | 0 PLF | 0 PLF | 0 PLF | |
| 6 | Part. Uniform | 10-7-7 to 14-4-2 | | Top | 2 PLF | 0 PLF | 0 PLF | 0 PLF | |
| 7 | Part. Uniform | 10-7-8 to 14-4-2 | | Top | 3 PLF | 0 PLF | 0 PLF | 0 PLF | |

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

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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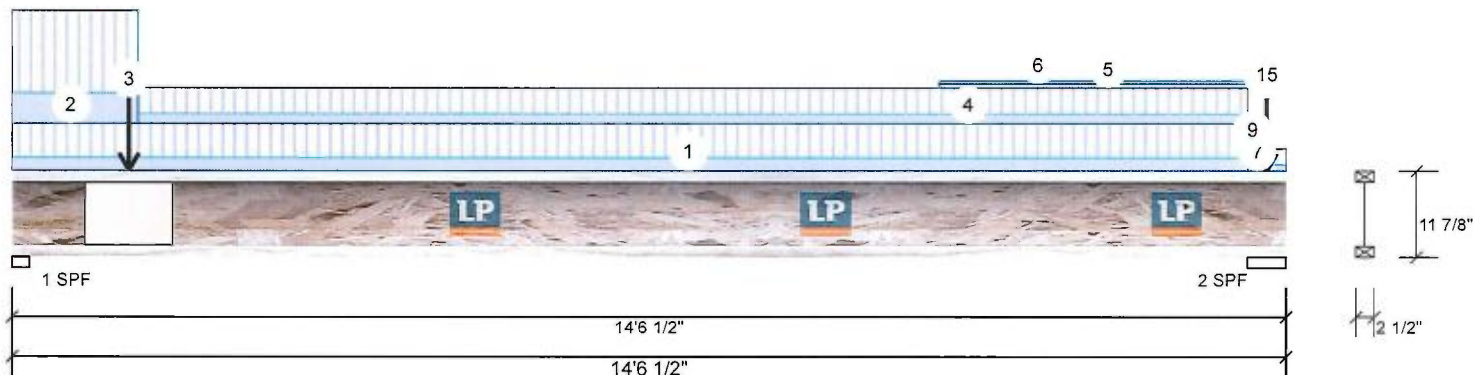
Date: 1/29/2019
Designer: S B
Job Name: LOT-14 (AMELIA 3 EL-2 _4BEDRM)
Project #:

IM0219-003

Page 1 of 2

F17-B LPI 20Plus 11.875" - PASSED

Level: Ground Floor

**Member Information**

| | | | |
|---------------------|--------|----------------|----------------------|
| Type: | Girder | Application: | Floor (Residential) |
| Plies: | 1 | Design Method: | LSD |
| Moisture Condition: | Dry | Building Code: | NBCC 2010 / OBC 2012 |
| Deflection LL: | 360 | Load Sharing: | No |
| Deflection TL: | 240 | Deck: | Not Checked |
| Importance: | Normal | Vibration: | Not Checked |
| General Load | | | |
| Floor Live: | 40 PSF | | |
| Dead: | 15 PSF | | |

Unfactored Reactions UNPATTERNED lb (Uplift)

| Brg | Live | Dead | Snow | Wind |
|-----|------|------|------|------|
| 1 | 648 | 248 | 0 | 0 |
| 2 | 387 | 174 | 0 | 0 |

Bearings and Factored Reactions

| Bearing | Length | Cap. React D/L lb | Total | Ld. Case | Ld. Comb. |
|---------|--------|-------------------|-----------|----------|------------|
| 1 - SPF | 2.375" | 78% | 310 / 972 | 1282 L | 1.25D+1.5L |
| 2 - SPF | 5.250" | 44% | 218 / 581 | 799 L | 1.25D+1.5L |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|---------------|----------------|-------------|---------------|-------------|------------|---------|
| Moment | 2568 ft-lb | 6'6 1/2" | 6250 ft-lb | 0.411 (41%) | 1.25D+1.5L | L |
| Shear | 1260 lb | 1 5/8" | 2345 lb | 0.537 (54%) | 1.25D+1.5L | L |
| Perm Defl in. | 0.067 (L/2524) | 6'11 11/16" | 0.468 (L/360) | 0.140 (14%) | D | Uniform |
| LL Defl inch | 0.171 (L/984) | 6'11 1/8" | 0.468 (L/360) | 0.370 (37%) | L | L |
| TL Defl inch | 0.238 (L/708) | 6'11 1/4" | 0.702 (L/240) | 0.340 (34%) | D+L | L |

Design Notes

- 1 Provide restraint at supports to ensure lateral stability.
- 2 Applied loads over end bearings and loads exceeding 250 lbs over intermediate bearings must be transferred directly to the support by rim board, blocking, squash blocks, or other device.
- 3 Dead Load Deflection: Instant = 0.067", Long Term = 0.100"
- 4 See manufacture installation guide note E4 for installation details
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top flange must be laterally braced at a maximum of 6'6" o.c.
- 7 Bottom flange braced at 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 CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



February 04, 2019

| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|----|---------------|-------------------|--------------|-----------|--------|--------|-------|-------|----------|
| 1 | Tie-In | 0-0-0 to 14-1-4 | (Span)1-3-0 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 2 | Tie-In | 0-0-0 to 1-5-4 | (Span)3-0-0 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 3 | Point | 1-4-0 | | Near Face | 116 lb | 302 lb | 0 lb | 0 lb | F14 |
| 4 | Tie-In | 1-5-4 to 14-1-4 | (Span)0-11-8 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 5 | Part. Uniform | 10-6-15 to 14-1-4 | | Top | 3 PLF | 0 PLF | 0 PLF | 0 PLF | |

Continued on page 2...

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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F-GREEN YORK HOMES- LOT 14 (AMELIA 3 EL-2)

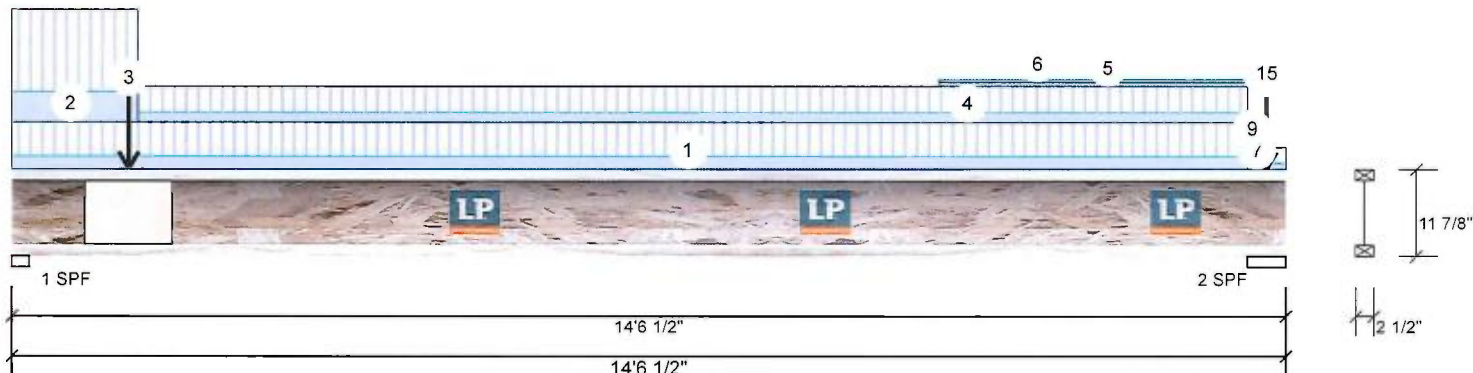
Date: 1/29/2019
Designer: S B
Job Name: LOT-14 (AMELIA 3 EL-2 _4BEDRM)
Project #:

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Page 2 of 2

F17-B LPI 20Plus 11.875" - PASSED

Level: Ground Floor



...Continued from page 1

| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|----|----------------|------------------|-------------|------|--------|--------|-------|-------|------------------|
| 6 | Part. Uniform | 10-7-0 to 14-1-4 | | Top | 2 PLF | 0 PLF | 0 PLF | 0 PLF | |
| 7 | Tie-In | 14-1-4 to 14-6-8 | (Span)0-7-0 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 9 | Part. Uniform | 14-1-4 to 14-4-5 | | Top | 1 PLF | 0 PLF | 0 PLF | 0 PLF | |
| 10 | Point | 14-3-14 | | Top | 1 lb | 3 lb | 0 lb | 0 lb | J6 |
| | Bearing Length | 0-1-8 | | | | | | | |
| 11 | Point | 14-3-14 | | Top | 1 lb | 3 lb | 0 lb | 0 lb | J1 |
| | Bearing Length | 0-1-8 | | | | | | | |
| 12 | Point | 14-3-14 | | Top | 2 lb | 0 lb | 0 lb | 0 lb | Wall Self Weight |
| | Bearing Length | 0-1-8 | | | | | | | |
| 13 | Point | 14-3-14 | | Top | 7 lb | 19 lb | 0 lb | 0 lb | J6 |
| | Bearing Length | 0-1-8 | | | | | | | |
| 14 | Point | 14-3-14 | | Top | 8 lb | 22 lb | 0 lb | 0 lb | J1 |
| | Bearing Length | 0-1-8 | | | | | | | |
| 15 | Point | 14-3-14 | | Top | 12 lb | 0 lb | 0 lb | 0 lb | Wall Self Weight |
| | Bearing Length | 0-1-8 | | | | | | | |

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

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.



February 04, 2019

Notes

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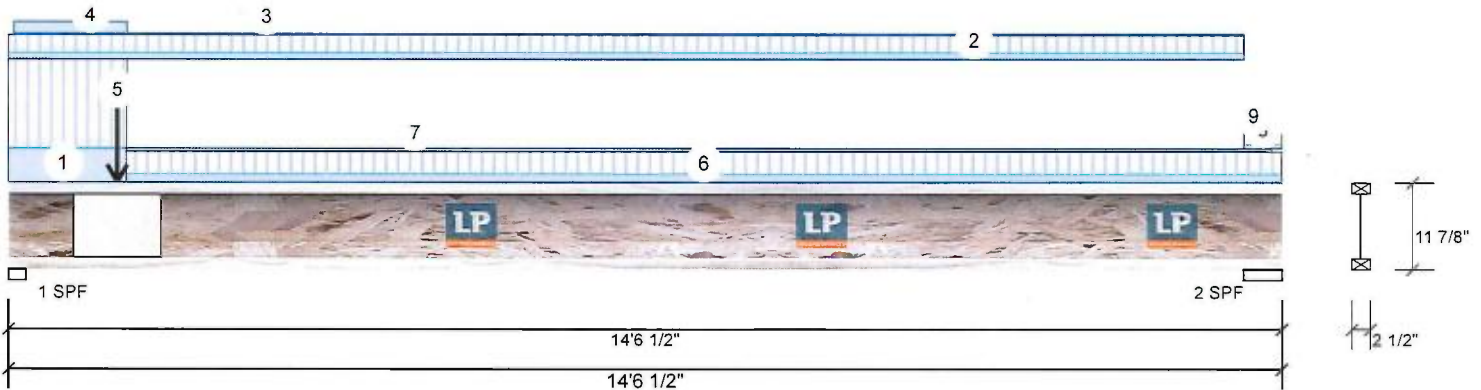
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Designer: S B
Job Name: LOT-14 (AMELIA 3 EL-2_4BEDRM)
Project #:

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F17-C LPI 20Plus 11.875" - PASSED

Level: Ground Floor



Member Information

| | | | |
|---------------------|--------|----------------|----------------------|
| Type: | Girder | Application: | Floor (Residential) |
| Plies: | 1 | Design Method: | LSD |
| Moisture Condition: | Dry | Building Code: | NBCC 2010 / OBC 2012 |
| Deflection LL: | 360 | Load Sharing: | No |
| Deflection TL: | 240 | Deck: | Not Checked |
| Importance: | Normal | Vibration: | Not Checked |
| General Load | | | |
| Floor Live: | 40 PSF | | |
| Dead: | 15 PSF | | |

Unfactored Reactions UNPATTERNED lb (Uplift)

| Brg | Live | Dead | Snow | Wind |
|-----|------|------|------|------|
| 1 | 551 | 270 | 0 | 0 |
| 2 | 223 | 109 | 0 | 0 |

Bearings and Factored Reactions

| Bearing | Length | Cap. React D/L lb | Total | Ld. Case | Ld. Comb. |
|---------|--------|-------------------|-------|----------|------------|
| 1 - SPF | 2.375" | 71% 338 / 827 | 1164 | L | 1.25D+1.5L |
| 2 - SPF | 5.250" | 26% 136 / 335 | 471 | L | 1.25D+1.5L |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|---------------|----------------|----------|---------------|-------------|------------|---------|
| Moment | 1834 ft-lb | 6'1 1/8" | 6250 ft-lb | 0.293 (29%) | 1.25D+1.5L | L |
| Shear | 1144 lb | 1 5/8" | 2345 lb | 0.488 (49%) | 1.25D+1.5L | L |
| Perm Defl in. | 0.056 (L/2990) | 6'9 3/4" | 0.468 (L/360) | 0.120 (12%) | D | Uniform |
| LL Defl inch | 0.115 (L/1461) | 6'9 3/4" | 0.468 (L/360) | 0.250 (25%) | L | L |
| TL Defl inch | 0.172 (L/982) | 6'9 3/4" | 0.702 (L/240) | 0.240 (24%) | D+L | L |

Design Notes

- 1 Provide restraint at supports to ensure lateral stability.
- 2 Dead Load Deflection: Instant = 0.056", Long Term = 0.084"
- 3 See manufacture installation guide note E4 for installation details
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top flange must be laterally braced at a maximum of 7'7" o.c.
- 6 Bottom flange braced at 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 CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



February 04, 2019

| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|----|---------------|------------------|----------------------|----------|--------|--------|-------|-------|----------|
| 1 | Tie-In | 0-0-0 to 1-4-2 | (Span)3-0-0 to 3-0-0 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 2 | Tie-In | 0-0-0 to 14-1-4 | (Span)0-7-0 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 3 | Part. Uniform | 0-0-10 to 14-1-4 | | Top | 1 PLF | 0 PLF | 0 PLF | 0 PLF | |
| 4 | Part. Uniform | 0-0-12 to 1-4-2 | | Top | 8 PLF | 0 PLF | 0 PLF | 0 PLF | |
| 5 | Point | 1-2-14 | | Far Face | 161 lb | 328 lb | 0 lb | 0 lb | F14 |
| 6 | Tie-In | 1-4-2 to 14-6-8 | (Span)0-9-0 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 7 | Part. Uniform | 1-4-2 to 14-5-1 | | Top | 2 PLF | 0 PLF | 0 PLF | 0 PLF | |

Pass-Through 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

Continued on page 2...

Notes

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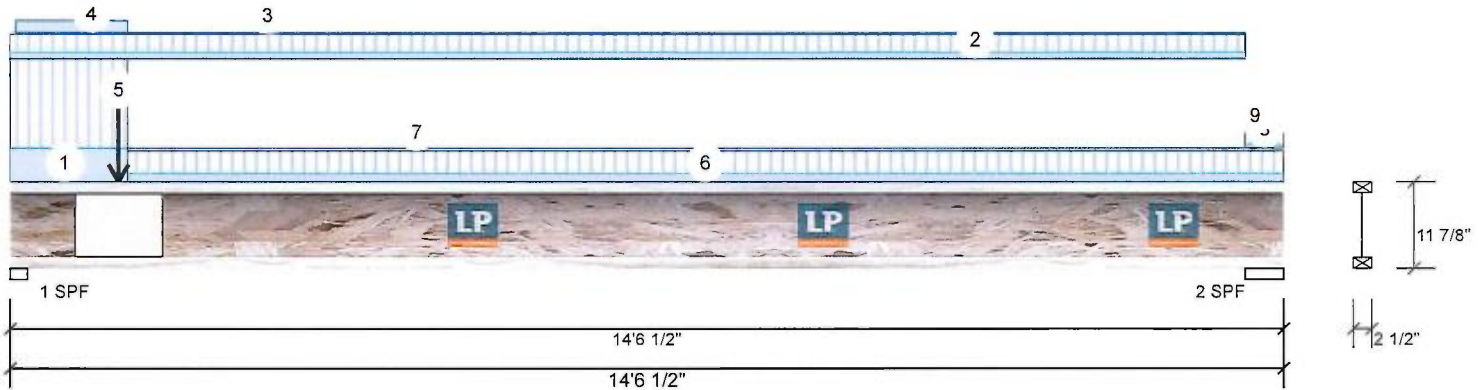
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Project #:

Page 2 of 2

F17-C LPI 20Plus 11.875" - PASSED

Level: Ground Floor



...Continued from page 1

| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|----|---------------|------------------|-------------|------|--------|--------|-------|-------|----------|
| 8 | Tie-In | 14-1-4 to 14-6-8 | (Span)0-4-0 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 9 | Part. Uniform | 14-1-4 to 14-5-1 | | Top | 1 PLF | 0 PLF | 0 PLF | 0 PLF | |



February 04, 2019

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

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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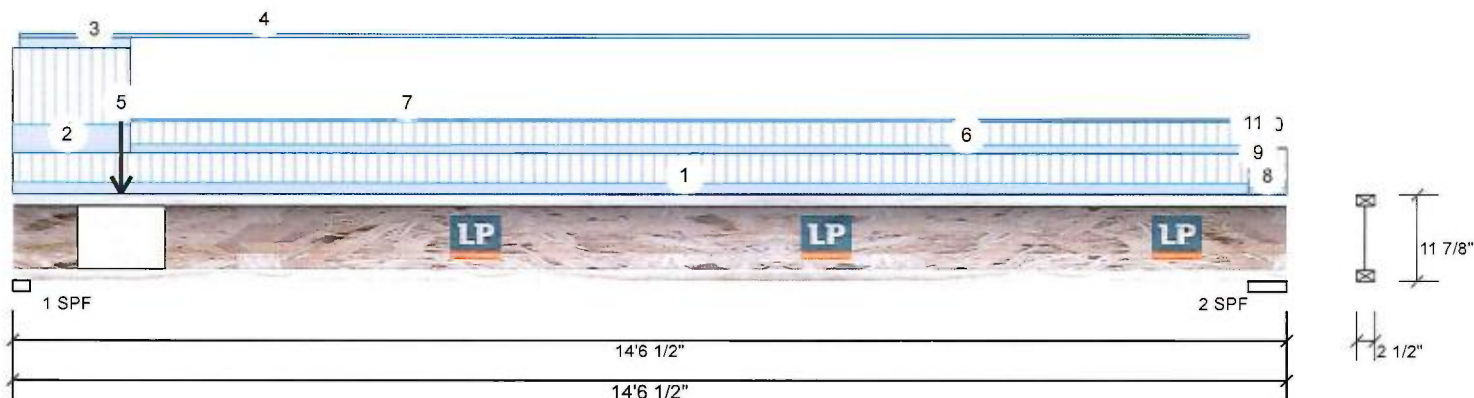
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Job Name: LOT-14 (AMELIA 3 EL-2_4BEDRM)
Project #:

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Page 1 of 2

F17-D LPI 20Plus 11.875" - PASSED

Level: Ground Floor

**Member Information**

| | | | |
|---------------------|--------|----------------|----------------------|
| Type: | Girder | Application: | Floor (Residential) |
| Plies: | 1 | Design Method: | LSD |
| Moisture Condition: | Dry | Building Code: | NBCC 2010 / OBC 2012 |
| Deflection LL: | 360 | Load Sharing: | No |
| Deflection TL: | 240 | Deck: | Not Checked |
| Importance: | Normal | Vibration: | Not Checked |
| General Load | | | |
| Floor Live: | 40 PSF | | |
| Dead: | 15 PSF | | |

Unfactored Reactions UNPATTERNED lb (Uplift)

| Brg | Live | Dead | Snow | Wind |
|-----|------|------|------|------|
| 1 | 632 | 311 | 0 | 0 |
| 2 | 327 | 162 | 0 | 0 |

Bearings and Factored Reactions

| Bearing | Length | Cap. React D/L lb | Total | Ld. Case | Ld. Comb. |
|---------|--------|-------------------|-----------|----------|------------|
| 1 - SPF | 2.375" | 82% | 389 / 948 | 1336 L | 1.25D+1.5L |
| 2 - SPF | 5.250" | 38% | 202 / 491 | 694 L | 1.25D+1.5L |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|---------------|----------------|------------|---------------|-------------|------------|---------|
| Moment | 2576 ft-lb | 6'6 5/16" | 6250 ft-lb | 0.412 (41%) | 1.25D+1.5L | L |
| Shear | 1313 lb | 1 5/8" | 2345 lb | 0.560 (56%) | 1.25D+1.5L | L |
| Perm Defl in. | 0.079 (L/2119) | 6'11 3/16" | 0.468 (L/360) | 0.170 (17%) | D | Uniform |
| LL Defl inch | 0.161 (L/1047) | 6'11 3/16" | 0.468 (L/360) | 0.340 (34%) | L | L |
| TL Defl inch | 0.240 (L/701) | 6'11 3/16" | 0.702 (L/240) | 0.340 (34%) | D+L | L |

Design Notes

- 1 Provide restraint at supports to ensure lateral stability.
- 2 Dead Load Deflection: Instant = 0.079", Long Term = 0.119"
- 3 See manufacture installation guide note E4 for installation details
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top flange must be laterally braced at a maximum of 6'6" o.c.
- 6 Bottom flange braced at 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 CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



February 04, 2019

| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|----|---------------|------------------|------------------------|-----------|--------|--------|-------|-------|---|
| 1 | Tie-In | 0-0-0 to 14-1-4 | (Span)1-2-0 to 1-2-0 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 2 | Tie-In | 0-0-0 to 1-4-2 | (Span)3-0-0 to 3-0-0 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 3 | Part. Uniform | 0-0-14 to 1-4-2 | | Top | 8 PLF | 0 PLF | 0 PLF | 0 PLF | Pass Thru Framing Squash Block is required at all point loads over bearings |
| 4 | Part. Uniform | 0-0-15 to 14-1-4 | | Top | 3 PLF | 0 PLF | 0 PLF | 0 PLF | |
| 5 | Point | 1-2-14 | | Near Face | 148 lb | 304 lb | 0 lb | 0 lb | Refer to Multiple Member Connection Detail for ply to ply nailing or bolting requirements |
| 6 | Tie-In | 1-4-2 to 14-1-4 | (Span)0-11-0 to 0-11-0 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |

Continued on page 2...

Notes

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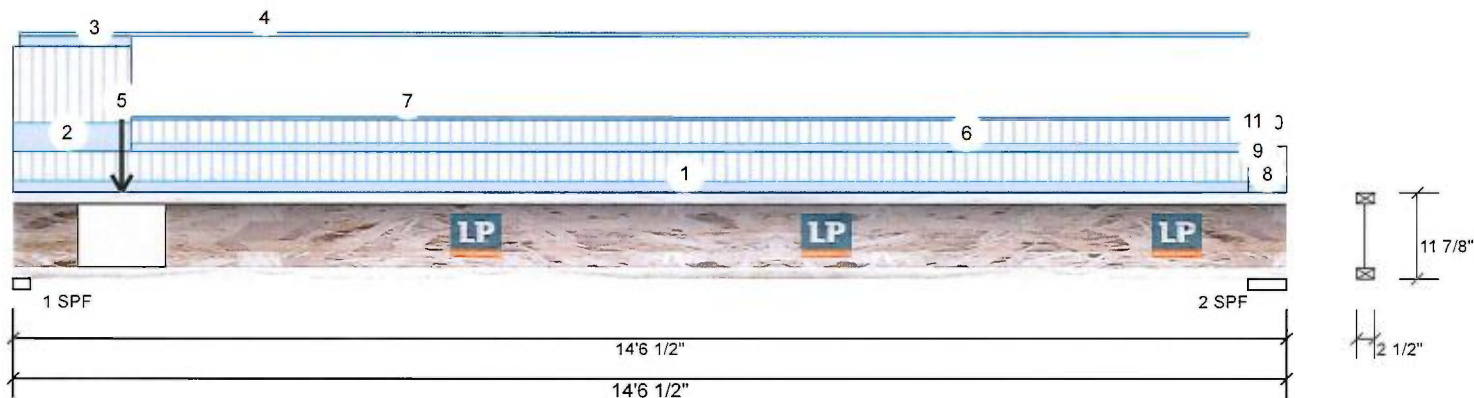
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Job Name: LOT-14 (AMELIA 3 EL-2 _4BEDRM)
Project #:

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Page 2 of 2

F17-D LPI 20Plus 11.875" - PASSED

Level: Ground Floor



...Continued from page 1

| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|----|---------------|------------------|-------------|------|--------|--------|-------|-------|----------|
| 7 | Part. Uniform | 1-4-2 to 14-1-4 | | Top | 2 PLF | 0 PLF | 0 PLF | 0 PLF | |
| 8 | Tie-In | 14-1-4 to 14-6-8 | (Span)0-8-0 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 9 | Tie-In | 14-1-4 to 14-6-8 | (Span)0-8-0 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 10 | Part. Uniform | 14-1-4 to 14-5-5 | | Top | 2 PLF | 0 PLF | 0 PLF | 0 PLF | |
| 11 | Part. Uniform | 14-1-4 to 14-5-4 | | Top | 2 PLF | 0 PLF | 0 PLF | 0 PLF | |



February 04, 2019

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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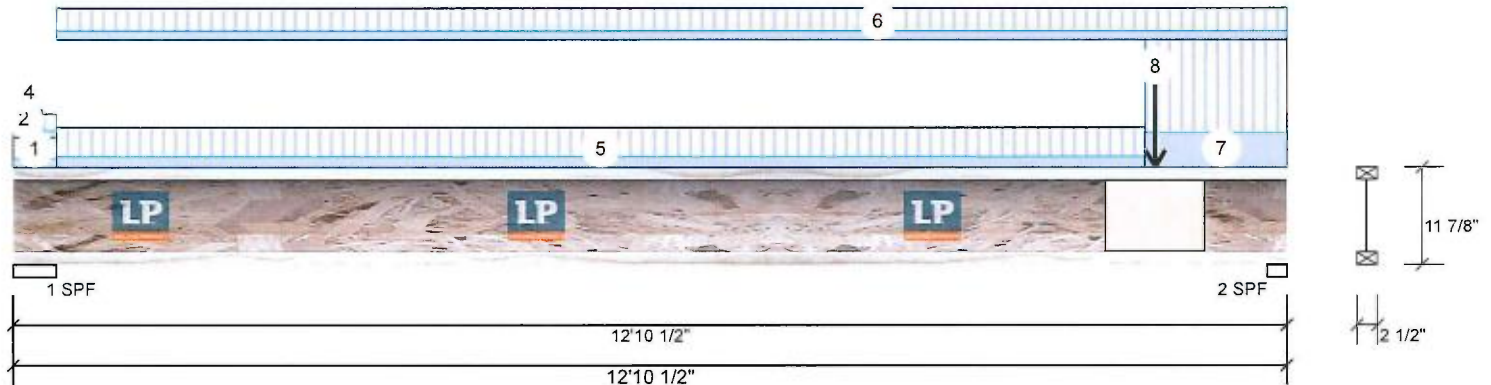
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Job Name: LOT-14 (AMELIA 3 EL-2_4BEDRM)
Project #:

Page 1 of 1

F18-A LPI 20Plus 11.875" - PASSED

Level: Ground Floor



Member Information

| | | | |
|---------------------|--------|----------------|----------------------|
| Type: | Girder | Application: | Floor (Residential) |
| Plies: | 1 | Design Method: | LSD |
| Moisture Condition: | Dry | Building Code: | NBCC 2010 / OBC 2012 |
| Deflection LL: | 360 | Load Sharing: | No |
| Deflection TL: | 240 | Deck: | Not Checked |
| Importance: | Normal | Vibration: | Not Checked |
| General Load | | | |
| Floor Live: | 40 PSF | | |
| Dead: | 15 PSF | | |

Unfactored Reactions UNPATTERNED lb (Uplift)

| Brg | Live | Dead | Snow | Wind |
|-----|------|------|------|------|
| 1 | 261 | 99 | 0 | 0 |
| 2 | 539 | 203 | 0 | 0 |

Bearings and Factored Reactions

| Bearing | Length | Cap. React D/L lb | Total | Ld. Case | Ld. Comb. |
|---------|--------|-------------------|-----------|----------|------------|
| 1 - SPF | 5.250" | 28% | 124 / 392 | 515 L | 1.25D+1.5L |
| 2 - SPF | 2.375" | 65% | 254 / 809 | 1063 L | 1.25D+1.5L |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|---------------|----------------|------------|---------------|-------------|------------|---------|
| Moment | 1741 ft-lb | 7'4 13/16" | 6250 ft-lb | 0.279 (28%) | 1.25D+1.5L | L |
| Shear | 1042 lb | 12'8 7/8" | 2345 lb | 0.444 (44%) | 1.25D+1.5L | L |
| Perm Defl in. | 0.036 (L/4179) | 6'10 3/16" | 0.412 (L/360) | 0.090 (9%) | D | Uniform |
| LL Defl inch | 0.095 (L/1569) | 6'10 1/8" | 0.412 (L/360) | 0.230 (23%) | L | L |
| TL Defl inch | 0.130 (L/1141) | 6'10 1/8" | 0.618 (L/240) | 0.210 (21%) | D+L | L |

Design Notes

- 1 Provide restraint at supports to ensure lateral stability.
- 2 Dead Load Deflection: Instant = 0.036", Long Term = 0.053"
- 3 See manufacture installation guide note E4 for installation details
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top flange must be laterally braced at a maximum of 7'9" o.c.
- 6 Bottom flange braced at bearings.

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February 04, 2019

| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|----|---------------|-------------------|-------------|----------|--------|--------|-------|-------|---|
| 1 | Tie-In | 0-0-0 to 0-5-4 | (Span)0-9-0 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 2 | Tie-In | 0-0-0 to 0-5-4 | (Span)0-7-0 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 3 | Part. Uniform | 0-0-0 to 0-3-9 | | Top | 2 PLF | 0 PLF | 0 PLF | 0 PLF | |
| 4 | Part. Uniform | 0-0-0 to 0-3-8 | | Top | 1 PLF | 0 PLF | 0 PLF | 0 PLF | |
| 5 | Tie-In | 0-5-4 to 11-5-4 | (Span)1-0-0 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | Pass-Thru Framing Squash Block is required at all point loads over bearings |
| 6 | Tie-In | 0-5-4 to 12-10-8 | (Span)0-9-8 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 7 | Tie-In | 11-5-4 to 12-10-8 | (Span)3-2-0 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | Refer to Multiple Member Connection Detail for ply to ply nailing or bolting requirements |
| 8 | Point | 11-6-8 | | Far Face | 106 lb | 281 lb | 0 lb | 0 lb | F14 |

Notes

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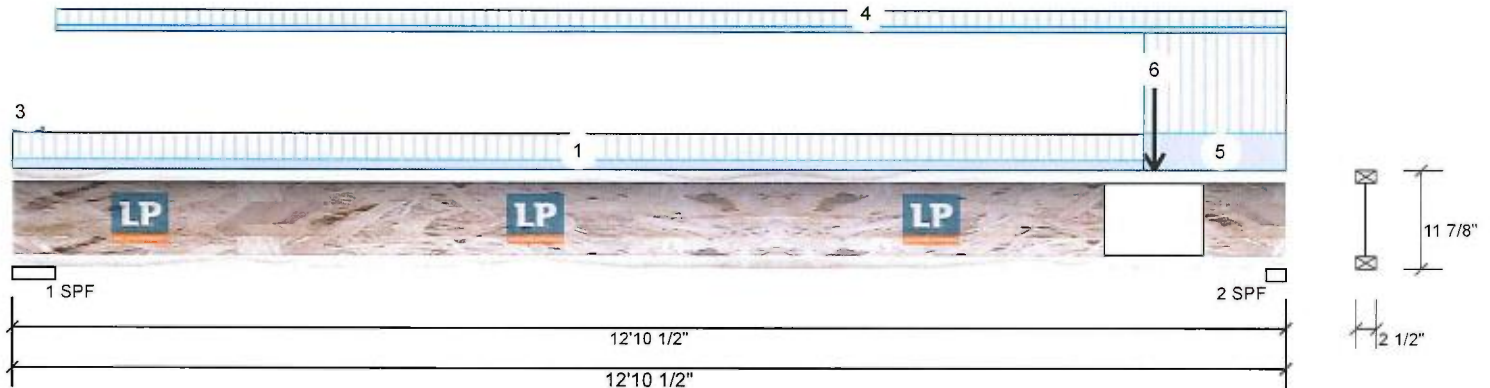
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Job Name: LOT-14 (AMELIA 3 EL-2_4BEDRM)
Project #:

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Page 1 of 1

F18-B LPI 20Plus 11.875" - PASSED

Level: Ground Floor



Member Information

| | | | |
|---------------------|--------|----------------|----------------------|
| Type: | Girder | Application: | Floor (Residential) |
| Plies: | 1 | Design Method: | LSD |
| Moisture Condition: | Dry | Building Code: | NBCC 2010 / OBC 2012 |
| Deflection LL: | 360 | Load Sharing: | No |
| Deflection TL: | 240 | Deck: | Not Checked |
| Importance: | Normal | Vibration: | Not Checked |
| General Load | | | |
| Floor Live: | 40 PSF | | |
| Dead: | 15 PSF | | |

Unfactored Reactions UNPATTERNED lb (Uplift)

| Brg | Live | Dead | Snow | Wind |
|-----|------|------|------|------|
| 1 | 203 | 77 | 0 | 0 |
| 2 | 506 | 190 | 0 | 0 |

Bearings and Factored Reactions

| Bearing | Length | Cap. React D/L lb | Total | Ld. Case | Ld. Comb. |
|---------|--------|-------------------|-----------|----------|------------|
| 1 - SPF | 5.250" | 22% | 96 / 305 | 401 L | 1.25D+1.5L |
| 2 - SPF | 2.375" | 61% | 238 / 759 | 997 L | 1.25D+1.5L |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|---------------|----------------|------------|---------------|-------------|------------|---------|
| Moment | 1439 ft-lb | 7'9 3/8" | 6250 ft-lb | 0.230 (23%) | 1.25D+1.5L | L |
| Shear | 977 lb | 12'8 7/8" | 2345 lb | 0.417 (42%) | 1.25D+1.5L | L |
| Perm Defl in. | 0.029 (L/5064) | 6'11 5/16" | 0.412 (L/360) | 0.070 (7%) | D | Uniform |
| LL Defl inch | 0.078 (L/1901) | 6'11 5/16" | 0.412 (L/360) | 0.190 (19%) | L | L |
| TL Defl inch | 0.107 (L/1382) | 6'11 5/16" | 0.618 (L/240) | 0.170 (17%) | D+L | L |

Design Notes

- 1 Provide restraint at supports to ensure lateral stability.
- 2 Dead Load Deflection: Instant = 0.029", Long Term = 0.044"
- 3 See manufacture installation guide note E4 for installation details
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top flange must be laterally braced at a maximum of 8'4" o.c.
- 6 Bottom flange braced at 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 CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



February 04, 2019

| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|----|---------------|-------------------|--------------|-----------|--------|--------|-------|-------|----------|
| 1 | Tie-In | 0-0-0 to 11-5-4 | (Span)0-10-0 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 2 | Part. Uniform | 0-0-0 to 0-3-12 | | Top | 1 PLF | 0 PLF | 0 PLF | 0 PLF | |
| 3 | Part. Uniform | 0-0-0 to 0-3-12 | | Top | 2 PLF | 0 PLF | 0 PLF | 0 PLF | |
| 4 | Tie-In | 0-5-4 to 12-10-8 | (Span)0-6-0 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 5 | Tie-In | 11-5-4 to 12-10-8 | (Span)3-2-0 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 6 | Point | 11-6-8 | | Near Face | 114 lb | 303 lb | 0 lb | 0 lb | F14 |

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

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.
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This design is valid until 10/31/2020

Manufacturer Info

Louisiana-Pacific Corp
414 Union Street, Suite 2000
Nashville, TN 37219
(888) 820-0325
www.lpcorp.com
CCMC: 12412-R APA: PR-L238C

Kott Lumber Company
14 Anderson Blvd, Ontario
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L4A 7X4
905-642-4400





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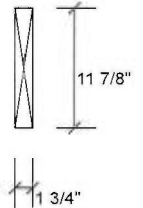
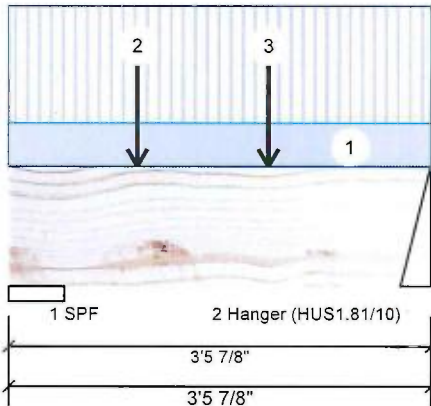
Client:
Project:
Address:

Date: 1/29/2019
Designer: S B
Job Name: LOT-14 (AMELIA 3 EL-2_4BEDRM)
Project #:

Page 1 of 1

F6-B Forex 2.0E-3000Fb LVL 1.750" X 11.875" - PASSED

Level: Ground Floor


Member Information

| | | | |
|---------------------|--------|----------------|----------------------|
| Type: | Girder | Application: | Floor (Residential) |
| Plies: | 1 | Design Method: | LSD |
| Moisture Condition: | Dry | Building Code: | NBCC 2010 / OBC 2012 |
| Deflection LL: | 360 | Load Sharing: | No |
| Deflection TL: | 240 | Deck: | Not Checked |
| Importance: | Normal | Vibration: | Not Checked |
| General Load | | | |
| Floor Live: | 40 PSF | | |
| Dead: | 15 PSF | | |

Unfactored Reactions UNPATTERNED lb (Uplift)

| Brg | Live | Dead | Snow | Wind |
|-----|------|------|------|------|
| 1 | 360 | 170 | 0 | 0 |
| 2 | 259 | 122 | 0 | 0 |

Bearings and Factored Reactions

| Bearing | Length | Cap. React D/L lb | Total | Ld. Case | Ld. Comb. |
|------------|--------|-------------------|-------|----------|------------|
| 1 - SPF | 5.500" | 13% 213 / 540 | 753 | L | 1.25D+1.5L |
| 2 - Hanger | 3.000" | 14% 152 / 389 | 541 | L | 1.25D+1.5L |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|---------------|-----------------|------------|---------------|------------|------------|---------|
| Moment | 485 ft-lb | 1'11 1/4" | 17130 ft-lb | 0.028 (3%) | 1.25D+1.5L | L |
| Unbraced | 485 ft-lb | 1'11 1/4" | 13987 ft-lb | 0.035 (3%) | 1.25D+1.5L | L |
| Shear | 526 lb | 1'4 5/8" | 5798 lb | 0.091 (9%) | 1.25D+1.5L | L |
| Perm Defl in. | 0.001 (L/36212) | 1'10 7/16" | 0.097 (L/360) | 0.010 (1%) | D | Uniform |
| LL Defl inch | 0.002 (L/17367) | 1'10 5/16" | 0.097 (L/360) | 0.020 (2%) | L | L |
| TL Defl inch | 0.003 (L/11738) | 1'10 5/16" | 0.145 (L/240) | 0.020 (2%) | D+L | L |

Design Notes

- 1 Fill all hanger nailing holes.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Top braced at bearings.
- 4 Bottom braced at bearings.



February 04, 2019

| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|----|---------------|-----------------|------------|----------|--------|--------|-------|-------|----------|
| 1 | Part. Uniform | 0-0-0 to 3-5-14 | | Top | 30 PLF | 80 PLF | 0 PLF | 0 PLF | |
| 2 | Point | 1-0-12 | | Far Face | 102 lb | 206 lb | 0 lb | 0 lb | J4 |
| 3 | Point | 2-1-12 | | Far Face | 69 lb | 134 lb | 0 lb | 0 lb | J2 |
| | Self Weight | | | | 5 PLF | | | | |

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

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.

Notes

Calculated Structural Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

Handing & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Forex
APA: PR-L318

Kott Lumber Company
14 Anderson Blvd, Ontario
Canada
L4A 7X4
905-642-4400



This design is valid until 10/18/2021





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Project:
Address:

F-GREEN YORK HOMES- LOT 14 (AMELIA 3 EL-2)

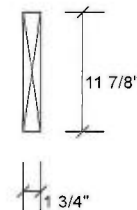
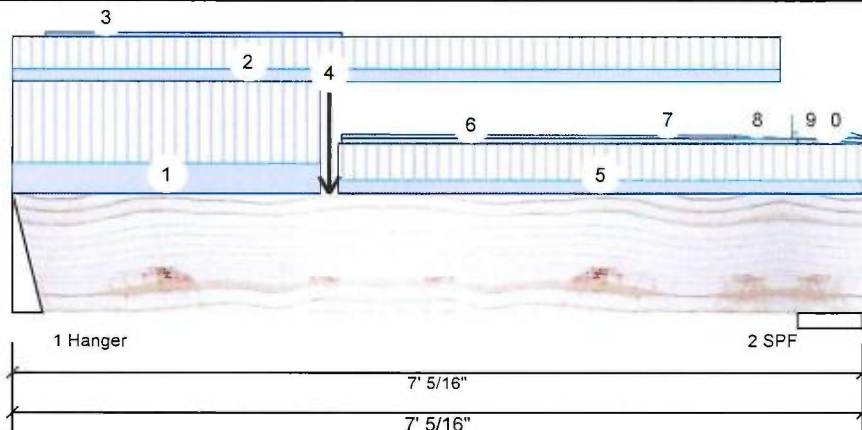
Date: 1/29/2019
Designer: S B
Job Name: LOT-14 (AMELIA 3 EL-2 _4BEDRM)
Project #:

IM0219-003

Page 1 of 2

F7-B Forex 2.0E-3000Fb LVL 1.750" X 11.875" - PASSED

Level: Ground Floor



Member Information

| | | | |
|---------------------|--------|----------------|----------------------|
| Type: | Girder | Application: | Floor (Residential) |
| Plies: | 1 | Design Method: | LSD |
| Moisture Condition: | Dry | Building Code: | NBCC 2010 / OBC 2012 |
| Deflection LL: | 360 | Load Sharing: | No |
| Deflection TL: | 240 | Deck: | Not Checked |
| Importance: | Normal | Vibration: | Not Checked |
| General Load | | | |
| Floor Live: | 40 PSF | | |
| Dead: | 15 PSF | | |

Unfactored Reactions UNPATTERNED lb (Uplift)

| Brg | Live | Dead | Snow | Wind |
|-----|------|------|------|------|
| 1 | 410 | 199 | 0 | 0 |
| 2 | 295 | 156 | 0 | 0 |

Bearings and Factored Reactions

| Bearing | Length | Cap. React D/L lb | Total | Ld. Case | Ld. Comb. |
|------------|--------|-------------------|-----------|----------|------------|
| 1 - Hanger | 3.000" | 22% | 248 / 615 | 864 L | 1.25D+1.5L |
| 2 - SPF | 6.438" | 9% | 195 / 442 | 637 L | 1.25D+1.5L |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|---------------|-----------------|------------|---------------|-------------|------------|---------|
| Moment | 1478 ft-lb | 2' 7 7/16" | 17130 ft-lb | 0.086 (9%) | 1.25D+1.5L | L |
| Unbraced | 1478 ft-lb | 2' 7 7/16" | 7067 ft-lb | 0.209 (21%) | 1.25D+1.5L | L |
| Shear | 649 lb | 1' 2 1/8" | 5798 lb | 0.112 (11%) | 1.25D+1.5L | L |
| Perm Defl in. | 0.006 (L/11753) | 3' 11/16" | 0.212 (L/360) | 0.030 (3%) | D | Uniform |
| LL Defl inch | 0.013 (L/5910) | 3' 1/8" | 0.212 (L/360) | 0.060 (6%) | L | L |
| TL Defl inch | 0.019 (L/3933) | 3' 5/16" | 0.318 (L/240) | 0.060 (6%) | D+L | L |

Design Notes

- 1 Fill all hanger nailing holes.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Top braced at bearings.
- 4 Bottom braced at 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 CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



February 04, 2019

| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|----|---------------|------------------|--------------|----------|--------|--------|-------|-------|---|
| 1 | Tie-In | 0-0-0 to 2-6-9 | (Span)3-1-13 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 2 | Tie-In | 0-0-0 to 6-4-2 | (Span)1-3-0 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 3 | Part. Uniform | 0-3-4 to 2-8-10 | | Top | 3 PLF | 0 PLF | 0 PLF | 0 PLF | |
| 4 | Point | 2-7-7 | | Far Face | 122 lb | 259 lb | 0 lb | 0 lb | F6 |
| 5 | Tie-In | 2-8-5 to 7-0-5 | (Span)1-5-0 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | Pass-Thru Framing Squash Block is required at all point loads over bearings |
| 6 | Part. Uniform | 2-8-10 to 6-5-14 | | Top | 4 PLF | 0 PLF | 0 PLF | 0 PLF | |
| 7 | Tapered Start | 2-8-10 | | Top | 3 PLF | 0 PLF | 0 PLF | 0 PLF | Refer to Multiple Member Connection Detail for ply to ply nailing or bolting requirements |

Continued on page 2...

Notes

Calculated Structural Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Forex
APA: PR-L318

Kott Lumber Company
14 Anderson Blvd, Ontario
Canada
L4A 7X4
905-642-4400



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F-GREEN YORK HOMES- LOT 14 (AMELIA 3 EL-2)

IM0219-003

Date: 1/29/2019

Page 2 of 2

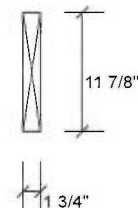
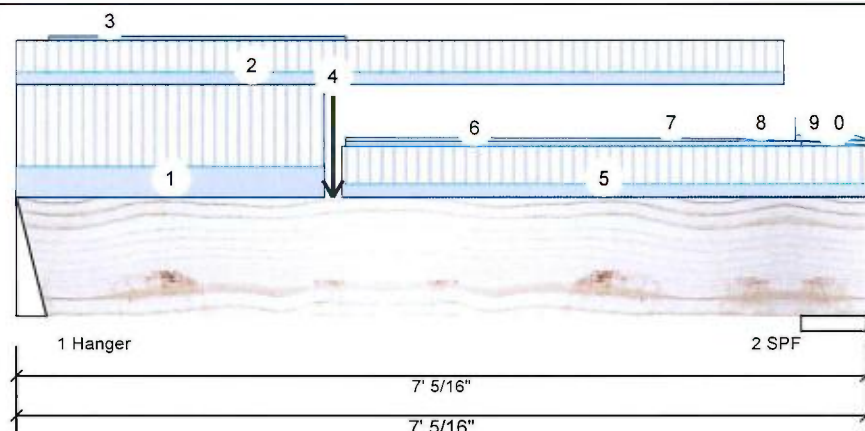
Designer: S B

Job Name: LOT-14 (AMELIA 3 EL-2 _4BEDRM)

Project #:

F7-B Forex 2.0E-3000Fb LVL 1.750" X 11.875" - PASSED

Level: Ground Floor



...Continued from page 1

| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|----|---------------|----------------|---------------------------|------|--------|--------|-------|-------|----------|
| | End | 5-11-10 | | | 2 PLF | 0 PLF | 0 PLF | 0 PLF | |
| 8 | Tapered Start | 5-11-10 | | Top | 2 PLF | 0 PLF | 0 PLF | 0 PLF | |
| | End | 6-4-2 | | | 0 PLF | 0 PLF | 0 PLF | 0 PLF | |
| 9 | Tie-In | 6-5-4 to 7-0-5 | (Span)0-7-13 to 0-0-13 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 10 | Tapered Start | 6-5-14 | | Top | 4 PLF | 0 PLF | 0 PLF | 0 PLF | |
| | End | 7-0-5 | | | 1 PLF | 0 PLF | 0 PLF | 0 PLF | |
| | Self Weight | | | | 5 PLF | | | | |



February 04, 2019

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

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.

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

chemicals**Handling & Installation**

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Forex
APA: PR-L318

Kott Lumber Company
14 Anderson Blvd, Ontario
Canada
L4A 7X4
905-642-4400



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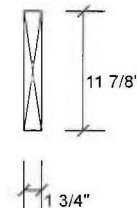
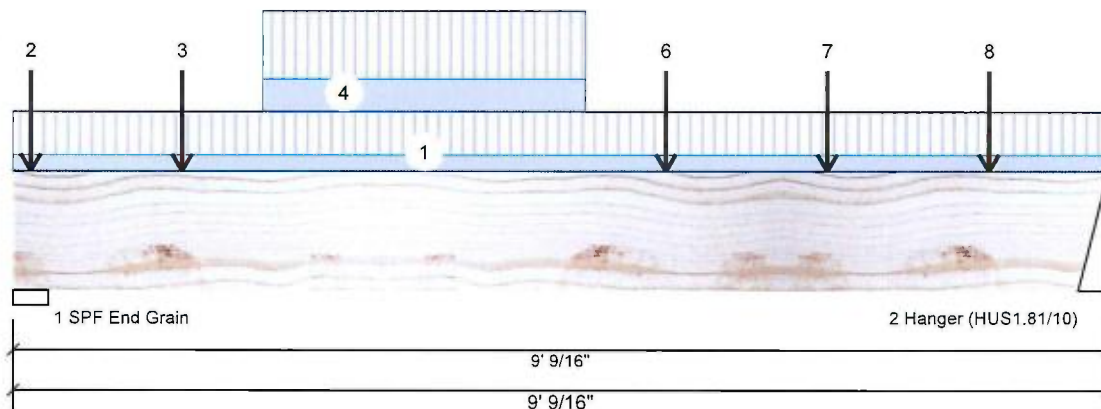
IM0219-003

Date: 1/29/2019
Designer: S B
Job Name: LOT-14 (AMELIA 3 EL-2_4BEDRM)
Project #:

Page 1 of 2

F8-A Forex 2.0E-3000Fb LVL 1.750" X 11.875" - PASSED

Level: Ground Floor

**Member Information**

| | | | |
|---------------------|--------|----------------|----------------------|
| Type: | Girder | Application: | Floor (Residential) |
| Plies: | 1 | Design Method: | LSD |
| Moisture Condition: | Dry | Building Code: | NBCC 2010 / OBC 2012 |
| Deflection LL: | 360 | Load Sharing: | No |
| Deflection TL: | 240 | Deck: | Not Checked |
| Importance: | Normal | Vibration: | Not Checked |
| General Load | | | |
| Floor Live: | 40 PSF | | |
| Dead: | 15 PSF | | |

Unfactored Reactions UNPATTERNED lb (Uplift)

| Brg | Live | Dead | Snow | Wind |
|-----|------|------|------|------|
| 1 | 1200 | 535 | 0 | 0 |
| 2 | 1290 | 544 | 0 | 0 |

Bearings and Factored Reactions

| Bearing | Length | Cap. React | D/L lb | Total | Ld. Case | Ld. Comb. |
|-------------------|--------|------------|------------|-------|----------|------------|
| 1 - SPF End Grain | 3.500" | 54% | 668 / 1800 | 2468 | L | 1.25D+1.5L |
| 2 - Hanger | 3.000" | 67% | 680 / 1936 | 2616 | L | 1.25D+1.5L |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|---------------|----------------|------------|---------------|-------------|------------|---------|
| Moment | 5061 ft-lb | 5'4 3/4" | 17130 ft-lb | 0.295 (30%) | 1.25D+1.5L | L |
| Unbraced | 5061 ft-lb | 5'4 3/4" | 5210 ft-lb | 0.971 (97%) | 1.25D+1.5L | L |
| Shear | 2425 lb | 7'10 7/16" | 5798 lb | 0.418 (42%) | 1.25D+1.5L | L |
| Perm Defl in. | 0.035 (L/2951) | 4'8 1/8" | 0.288 (L/360) | 0.120 (12%) | D | Uniform |
| LL Defl inch | 0.081 (L/1283) | 4'8 9/16" | 0.288 (L/360) | 0.280 (28%) | L | L |
| TL Defl inch | 0.116 (L/894) | 4'8 7/16" | 0.432 (L/240) | 0.270 (27%) | D+L | L |

Design Notes

- 1 Performed Secondary Bearing Check (CSA 086-14 6.5.7.3). Assumed point load size: beam width X 4.5.
- 2 Fill all hanger nailing holes.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top braced at bearings.
- 5 Bottom braced at 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 CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



February 04, 2019

| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Cc |
|----|---------------|------------------|------------------------|----------|--------|---------|-------|-------|----|
| 1 | Tie-In | 0-0-0 to 9-0-9 | (Span)3-11-7 to 3-11-7 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 2 | Point | 0-1-12 | | Top | 110 lb | 248 lb | 0 lb | 0 lb | C4 |
| 3 | Point | 1-4-12 | | Far Face | 77 lb | 158 lb | 0 lb | 0 lb | |
| 4 | Part. Uniform | 2-0-12 to 4-8-12 | | Far Face | 59 PLF | 123 PLF | 0 PLF | 0 lb | |
| 6 | Point | 5-4-12 | | Far Face | 126 lb | 296 lb | 0 lb | 0 lb | |
| 7 | Point | 6-8-12 | | Far Face | 156 lb | 393 lb | 0 lb | 0 lb | |

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

Continued on page 2...

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

chemicals**Handling & Installation**

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Forex
APA: PR-L318

Kott Lumber Company
14 Anderson Blvd, Ontario
Canada
L4A 7X4
905-642-4400



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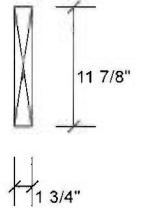
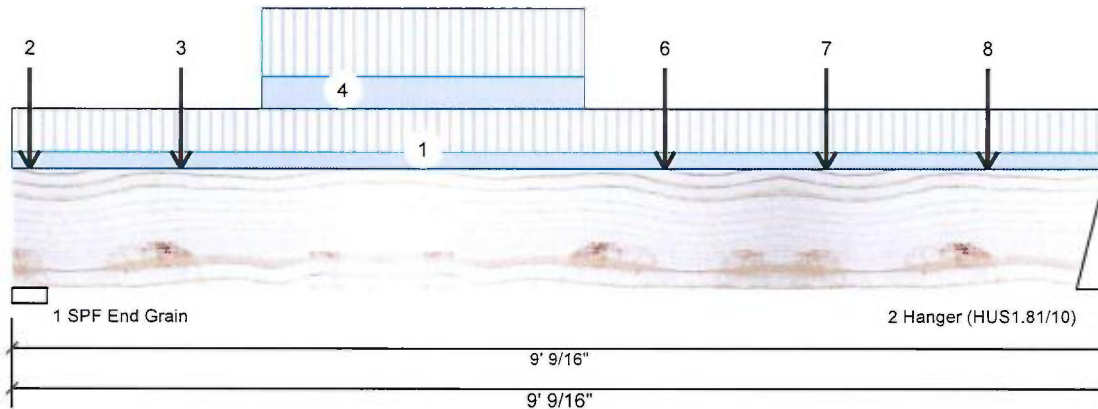
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Date: 1/29/2019
Designer: S B
Job Name: LOT-14 (AMELIA 3 EL-2 _4BEDRM)
Project #:

Page 2 of 2

F8-A Forex 2.0E-3000Fb LVL 1.750" X 11.875" - PASSED

Level: Ground Floor



...Continued from page 1

| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|----|-------------|----------|------------|----------|--------|--------|------|------|----------|
| 8 | Point | 8-0-12 | | Far Face | 141 lb | 352 lb | 0 lb | 0 lb | J10 |
| | Self Weight | | | | 5 PLF | | | | |



February 04, 2019

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

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.

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

chemicals**Handling & Installation**

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Forex
APA: PR-L318

Kott Lumber Company
14 Anderson Blvd, Ontario
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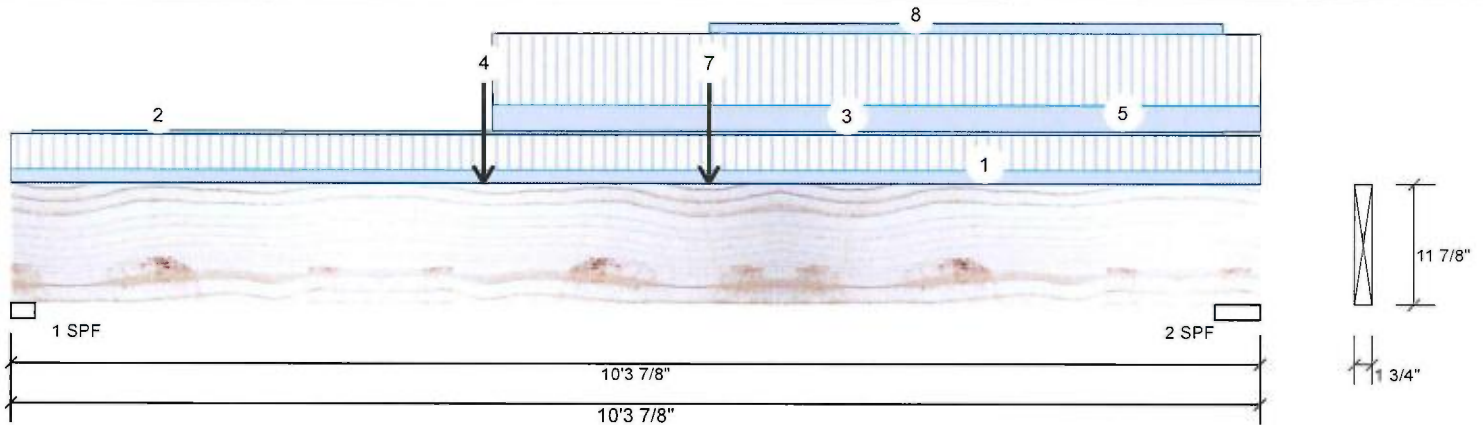
Client:
Project:
Address:

Date: 1/29/2019
Designer: S B
Job Name: LOT-14 (AMELIA 3 EL-2_4BEDRM)
Project #:

Page 1 of 1

F9-A Forex 2.0E-3000Fb LVL 1.750" X 11.875" - PASSED

Level: Ground Floor

**Member Information**

| | | | |
|---------------------|--------|----------------|----------------------|
| Type: | Girder | Application: | Floor (Residential) |
| Plies: | 1 | Design Method: | LSD |
| Moisture Condition: | Dry | Building Code: | NBCC 2010 / OBC 2012 |
| Deflection LL: | 360 | Load Sharing: | No |
| Deflection TL: | 240 | Deck: | Not Checked |
| Importance: | Normal | Vibration: | Not Checked |
| General Load | | | |
| Floor Live: | 40 PSF | | |
| Dead: | 15 PSF | | |

Unfactored Reactions UNPATTERNED lb (Uplift)

| Brg | Live | Dead | Snow | Wind |
|-----|------|------|------|------|
| 1 | 949 | 425 | 0 | 0 |
| 2 | 722 | 334 | 0 | 0 |

Bearings and Factored Reactions

| Bearing | Length | Cap. React D/L lb | Total | Ld. Case | Ld. Comb. |
|---------|--------|-------------------|------------|----------|------------|
| 1 - SPF | 2.375" | 76% | 531 / 1424 | 1955 L | 1.25D+1.5L |
| 2 - SPF | 4.500" | 31% | 417 / 1083 | 1501 L | 1.25D+1.5L |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|---------------|----------------|------------|---------------|--------------|------------|---------|
| Moment | 7161 ft-lb | 3'10 7/8" | 17130 ft-lb | 0.418 (42%) | 1.25D+1.5L | L |
| Unbraced | 7161 ft-lb | 3'10 7/8" | 7194 ft-lb | 0.995 (100%) | 1.25D+1.5L | L |
| Shear | 1924 lb | 1'1 1/2" | 5798 lb | 0.332 (33%) | 1.25D+1.5L | L |
| Perm Defl in. | 0.054 (L/2188) | 4'7 7/8" | 0.329 (L/360) | 0.160 (16%) | D | Uniform |
| LL Defl inch | 0.123 (L/965) | 4'7 11/16" | 0.329 (L/360) | 0.370 (37%) | L | L |
| TL Defl inch | 0.177 (L/670) | 4'7 3/4" | 0.494 (L/240) | 0.360 (36%) | D+L | L |

Design Notes

- 1 Girders are designed to be supported on the bottom edge only.
- 2 Top must be laterally braced at a maximum of 6'3" o.c.
- 3 Bottom braced at 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 CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



February 04, 2019

| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind |
|----|---------------|--------------------|--------------|----------|--------|---------|-------|---------|
| 1 | Tie-In | 0-0-0 to 10-3-14 | (Span)0-6-5 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF |
| 2 | Part. Uniform | 0-2-1 to 2-3-1 | | Top | 1 PLF | 0 PLF | 0 PLF | 0 PLF |
| 3 | Part. Uniform | 2-3-1 to 10-0-4 | | Top | 1 PLF | 0 PLF | 0 PLF | 0 PLF |
| 4 | Point | 3-10-14 | | Far Face | 544 lb | 1290 lb | 0 lb | 0 lb F8 |
| 5 | Tie-In | 3-11-12 to 10-3-14 | (Span)1-0-11 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF |
| 6 | Point | 5-9-3 | | Top | 48 lb | 127 lb | 0 lb | 0 lb |
| 7 | Point | 5-9-3 | | Top | 4 lb | 12 lb | 0 lb | 0 lb |
| 8 | Part. Uniform | 5-9-5 to 10-0-3 | | Top | 3 PLF | 0 PLF | 0 PLF | 0 PLF |
| | Self Weight | | | | 5 PLF | | | |

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

Notes

Calculated Structural Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise.
2. LVL not to be treated with fire retardant or corrosive

chemicals**Handling & Installation**

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multiply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Forex
APA: PR-L318

Kott Lumber Company
14 Anderson Blvd, Ontario
Canada
L4A 7X4
905-642-4400



This design is valid until 10/18/2021





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Project:
Address:

F-GREEN YORK HOMES- LOT 14 (AMELIA 3 EL-2)

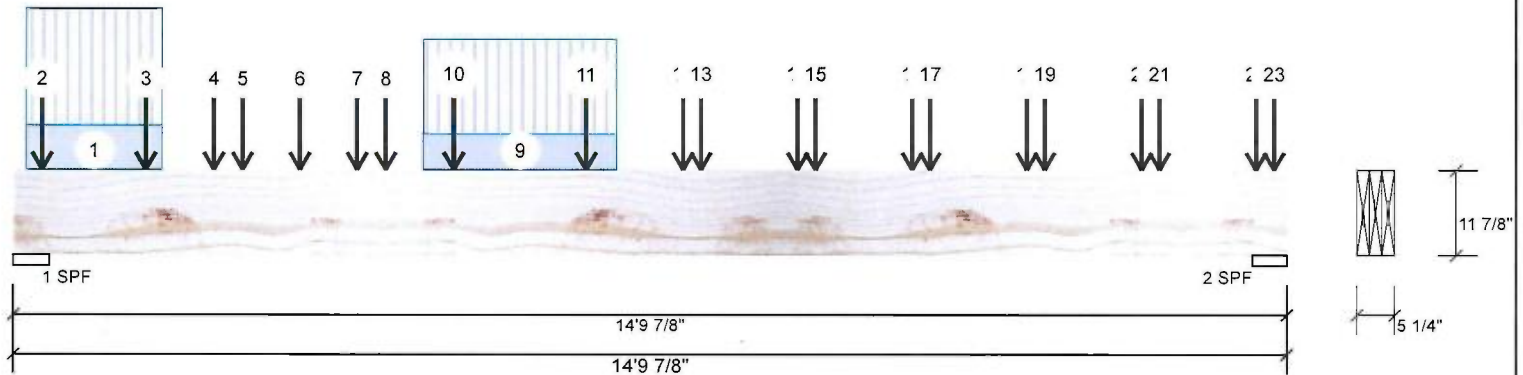
IM0219-003

Date: 1/29/2019
Designer: S B
Job Name: LOT-14 (AMELIA 3 EL-2_4BEDRM)
Project #:

Page 1 of 2

BM5-A Forex 2.0E-3000Fb LVL 1.750" X 11.875" 3-Ply - PASSED

Level: Second Floor

**Member Information**

| | | | |
|---------------------|--------|----------------|----------------------|
| Type: | Girder | Application: | Floor (Residential) |
| Plies: | 3 | Design Method: | LSD |
| Moisture Condition: | Dry | Building Code: | NBCC 2010 / OBC 2012 |
| Deflection LL: | 360 | Load Sharing: | Yes |
| Deflection TL: | 240 | Deck: | Not Checked |
| Importance: | Normal | Vibration: | Not Checked |
| General Load | | | |
| Floor Live: | 40 PSF | | |
| Dead: | 15 PSF | | |

Unfactored Reactions UNPATTERNED lb (Uplift)

| Brg | Live | Dead | Snow | Wind |
|-----|------|------|------|------|
| 1 | 3891 | 1585 | 0 | 0 |
| 2 | 3817 | 1541 | 0 | 0 |

Bearings and Factored Reactions

| Bearing | Length | Cap. React D/L lb | Total | Ld. Case | Ld. Comb. |
|---------|--------|-------------------|-------------|----------|------------|
| 1 - SPF | 5.063" | 48% | 1981 / 5837 | 7818 L | 1.25D+1.5L |
| 2 - SPF | 4.813" | 49% | 1927 / 5725 | 7651 L | 1.25D+1.5L |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|---------------|----------------|-------------|---------------|-------------|------------|---------|
| Moment | 26622 ft-lb | 7'9 9/16" | 53447 ft-lb | 0.498 (50%) | 1.25D+1.5L | L |
| Unbraced | 26622 ft-lb | 7'9 9/16" | 50353 ft-lb | 0.529 (53%) | 1.25D+1.5L | L |
| Shear | 6935 lb | 13'5 15/16" | 17394 lb | 0.399 (40%) | 1.25D+1.5L | L |
| Perm Defl in. | 0.141 (L/1199) | 7'5 1/16" | 0.471 (L/360) | 0.300 (30%) | D | Uniform |
| LL Defl inch | 0.350 (L/485) | 7'5 1/4" | 0.471 (L/360) | 0.740 (74%) | L | L |
| TL Defl inch | 0.491 (L/345) | 7'5 1/8" | 0.706 (L/240) | 0.700 (70%) | D+L | L |

Design Notes

- 1 Performed Secondary Bearing Check (CSA 086-14 6.5.7.3). Assumed point load size: beam width X 4.5.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top braced at bearings.
- 6 Bottom braced at bearings.
- 7 Lateral slenderness ratio based on full section width.

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.



February 04, 2019

| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|----|---------------|------------------|------------|------|---------|---------|-------|-------|----------|
| 1 | Part. Uniform | 0-1-13 to 1-8-13 | | Top | 139 PLF | 363 PLF | 0 PLF | 0 PLF | |
| 2 | Point | 0-4-1 | | Top | 54 lb | 138 lb | 0 lb | 0 lb | J1 |
| 3 | Point | 1-6-9 | | Top | 99 lb | 265 lb | 0 lb | 0 lb | J1 |
| 4 | Point | 2-4-1 | | Top | 111 lb | 285 lb | 0 lb | 0 lb | J1 |
| 5 | Point | 2-8-1 | | Top | 115 lb | 306 lb | 0 lb | 0 lb | J1 |

Continued on page 2...

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

Notes

Calculated Structural Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

chemicals**Handling & Installation**

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer InfoForex
APA: PR-L318Kott Lumber Company
14 Anderson Blvd, Ontario
Canada
L4A 7X4
905-642-4400

This design is valid until 10/18/2021





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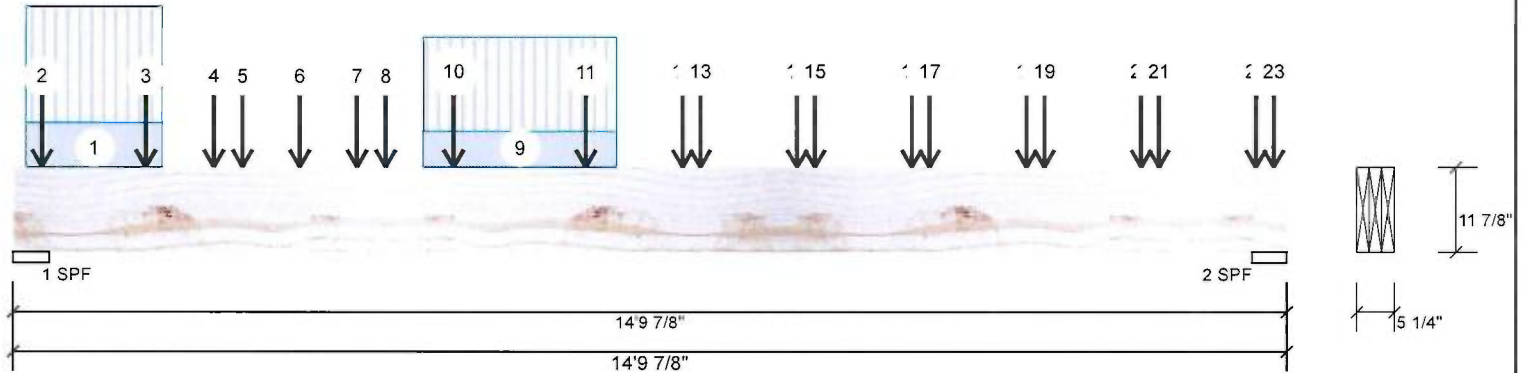
Client:
Project:
Address:

Date: 1/29/2019
Designer: S B
Job Name: LOT-14 (AMELIA 3 EL-2_4BEDRM)
Project #:

Page 2 of 2

BM5-A Forex 2.0E-3000Fb LVL 1.750" X 11.875" 3-Ply - PASSED

Level: Second Floor



...Continued from page 1

| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|-------------|---------------|----------------|------------|------|---------|---------|-------|-------|----------|
| 6 | Point | 3-4-1 | | Top | 112 lb | 286 lb | 0 lb | 0 lb | J1 |
| 7 | Point | 4-0-1 | | Top | 115 lb | 306 lb | 0 lb | 0 lb | J6 |
| 8 | Point | 4-4-1 | | Top | 112 lb | 285 lb | 0 lb | 0 lb | J1 |
| 9 | Part. Uniform | 4-9-5 to 7-0-5 | | Top | 112 PLF | 296 PLF | 0 PLF | 0 PLF | |
| 10 | Point | 5-1-9 | | Top | 115 lb | 306 lb | 0 lb | 0 lb | J6 |
| 11 | Point | 6-8-1 | | Top | 142 lb | 378 lb | 0 lb | 0 lb | J1 |
| 12 | Point | 7-9-9 | | Top | 125 lb | 334 lb | 0 lb | 0 lb | J6 |
| 13 | Point | 8-0-1 | | Top | 142 lb | 378 lb | 0 lb | 0 lb | J1 |
| 14 | Point | 9-1-9 | | Top | 125 lb | 334 lb | 0 lb | 0 lb | J6 |
| 15 | Point | 9-4-1 | | Top | 142 lb | 378 lb | 0 lb | 0 lb | J1 |
| 16 | Point | 10-5-9 | | Top | 125 lb | 334 lb | 0 lb | 0 lb | J6 |
| 17 | Point | 10-8-1 | | Top | 142 lb | 378 lb | 0 lb | 0 lb | J1 |
| 18 | Point | 11-9-9 | | Top | 125 lb | 334 lb | 0 lb | 0 lb | J6 |
| 19 | Point | 12-0-1 | | Top | 142 lb | 378 lb | 0 lb | 0 lb | J1 |
| 20 | Point | 13-1-9 | | Top | 125 lb | 334 lb | 0 lb | 0 lb | J6 |
| 21 | Point | 13-4-1 | | Top | 142 lb | 378 lb | 0 lb | 0 lb | J1 |
| 22 | Point | 14-5-9 | | Top | 62 lb | 165 lb | 0 lb | 0 lb | J6 |
| 23 | Point | 14-8-1 | | Top | 70 lb | 187 lb | 0 lb | 0 lb | J1 |
| Self Weight | | | | | 14 PLF | | | | |



February 04, 2019

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

chemicals**Handling & Installation**

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Forex
APA: PR-L318

Kott Lumber Company
14 Anderson Blvd, Ontario
Canada
L4A 7X4
905-642-4400



This design is valid until 10/18/2021





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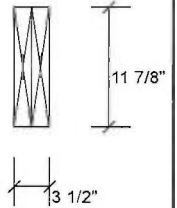
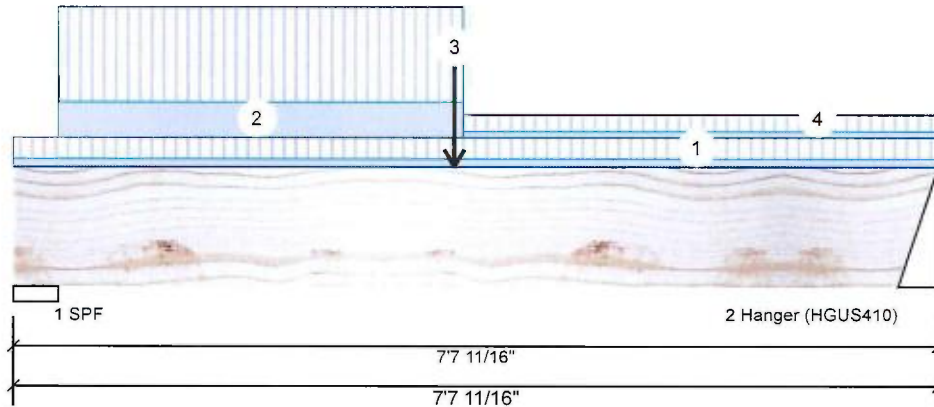
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Project:
Address:

F-GREEN YORK HOMES- LOT 14 (AMELIA 3 EL-2)

Date: 1/29/2019
Designer: S B
Job Name: LOT-14 (AMELIA 3 EL-2 _4BEDRM)
Project #:

IM0219-003
Page 1 of 1

F11-A Forex 2.0E-3000Fb LVL 1.750" X 11.875" 2-Ply - PASSED Level: Second Floor



Member Information

| | | | |
|---------------------|--------|----------------|----------------------|
| Type: | Girder | Application: | Floor (Residential) |
| Plies: | 2 | Design Method: | LSD |
| Moisture Condition: | Dry | Building Code: | NBCC 2010 / OBC 2012 |
| Deflection LL: | 360 | Load Sharing: | No |
| Deflection TL: | 240 | Deck: | Not Checked |
| Importance: | Normal | Vibration: | Not Checked |
| General Load | | | |
| Floor Live: | 40 PSF | | |
| Dead: | 15 PSF | | |

Unfactored Reactions UNPATTERNED lb (Uplift)

| Brg | Live | Dead | Snow | Wind |
|-----|------|------|------|------|
| 1 | 499 | 227 | 0 | 0 |
| 2 | 381 | 182 | 0 | 0 |

Bearings and Factored Reactions

| Bearing | Length | Cap. | React D/L lb | Total | Ld. Case | Ld. Comb. |
|------------|--------|------|--------------|-------|----------|------------|
| 1 - SPF | 4.467" | 11% | 284 / 748 | 1032 | L | 1.25D+1.5L |
| 2 - Hanger | 4.000" | 8% | 228 / 571 | 799 | L | 1.25D+1.5L |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|---------------|-----------------|------------|---------------|------------|------------|---------|
| Moment | 2465 ft-lb | 3'7 11/16" | 34261 ft-lb | 0.072 (7%) | 1.25D+1.5L | L |
| Unbraced | 2465 ft-lb | 3'7 11/16" | 31940 ft-lb | 0.077 (8%) | 1.25D+1.5L | L |
| Shear | 857 lb | 1'3 9/16" | 11596 lb | 0.074 (7%) | 1.25D+1.5L | L |
| Perm Defl in. | 0.006 (L/15083) | 3'7 3/4" | 0.235 (L/360) | 0.020 (2%) | D | Uniform |
| LL Defl inch | 0.013 (L/6640) | 3'7 3/4" | 0.235 (L/360) | 0.050 (5%) | L | L |
| TL Defl inch | 0.018 (L/4610) | 3'7 3/4" | 0.353 (L/240) | 0.050 (5%) | D+L | L |

Design Notes

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

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.



February 04, 2019

| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|----|-------------|-----------------|-------------|-----------|--------|--------|-------|-------|----------|
| 1 | Tie-In | 0-0-0 to 7-7-11 | (Span)0-9-0 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 2 | Tie-In | 0-4-7 to 3-8-9 | (Span)3-4-0 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 3 | Point | 3-7-11 | | Near Face | 193 lb | 496 lb | 0 lb | 0 lb | F6 |
| 4 | Tie-In | 3-8-9 to 7-7-11 | (Span)0-7-0 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| | Self Weight | | | | 10 PLF | | | | |

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

Notes

Calculated Structural Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Forex
APA: PR-L318

Kott Lumber Company
14 Anderson Blvd, Ontario
Canada
L4A 7X4
905-642-4400



This design is valid until 10/18/2021





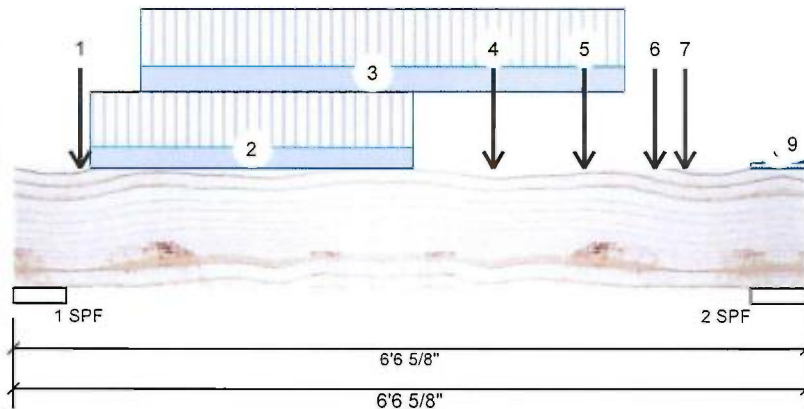
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Client:
Project:
Address:

Date: 1/29/2019
Designer: S B
Job Name: LOT-14 (AMELIA 3 EL-2_4BEDRM)
Project #:

Page 1 of 2

F11-B Forex 2.0E-3000Fb LVL 1.750" X 11.875" 2-Ply - PASSED Level: Second Floor



Member Information

| | | | |
|---------------------|--------|----------------|----------------------|
| Type: | Girder | Application: | Floor (Residential) |
| Plies: | 2 | Design Method: | LSD |
| Moisture Condition: | Dry | Building Code: | NBCC 2010 / OBC 2012 |
| Deflection LL: | 360 | Load Sharing: | No |
| Deflection TL: | 240 | Deck: | Not Checked |
| Importance: | Normal | Vibration: | Not Checked |
| General Load | | | |
| Floor Live: | 40 PSF | | |
| Dead: | 15 PSF | | |

Unfactored Reactions UNPATTERNED lb (Uplift)

| Brg | Live | Dead | Snow | Wind |
|-----|------|------|------|------|
| 1 | 1645 | 716 | 0 | 0 |
| 2 | 1493 | 672 | 0 | 0 |

Bearings and Factored Reactions

| Bearing | Length | Cap. React | D/L lb | Total | Ld. Case | Ld. Comb. |
|---------|--------|------------|------------|-------|----------|------------|
| 1 - SPF | 5.250" | 30% | 895 / 2467 | 3363 | L | 1.25D+1.5L |
| 2 - SPF | 5.500" | 26% | 840 / 2240 | 3080 | L | 1.25D+1.5L |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|---------------|----------------|------------|---------------|-------------|------------|---------|
| Moment | 4894 ft-lb | 3'3 13/16" | 34261 ft-lb | 0.143 (14%) | 1.25D+1.5L | L |
| Unbraced | 4894 ft-lb | 3'3 13/16" | 32706 ft-lb | 0.150 (15%) | 1.25D+1.5L | L |
| Shear | 3627 lb | 5'2" | 11596 lb | 0.313 (31%) | 1.25D+1.5L | L |
| Perm Defl in. | 0.009 (L/7390) | 3'3 5/8" | 0.193 (L/360) | 0.050 (5%) | D | Uniform |
| LL Defl inch | 0.021 (L/3234) | 3'3 7/16" | 0.193 (L/360) | 0.110 (11%) | L | L |
| TL Defl inch | 0.031 (L/2250) | 3'3 1/2" | 0.289 (L/240) | 0.110 (11%) | D+L | L |

Design Notes

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

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.



February 04, 2019

| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|----|---------------|------------------|------------|-----------|---------|---------|-------|-------|---|
| 1 | Point | 0-6-10 | | Far Face | 111 lb | 256 lb | 0 lb | 0 lb | J1 |
| 2 | Part. Uniform | 0-7-10 to 3-3-10 | | Near Face | 105 PLF | 280 PLF | 0 PLF | 0 PLF | |
| 3 | Part. Uniform | 1-0-10 to 5-0-10 | | Far Face | 127 PLF | 286 PLF | 0 PLF | 0 PLF | |
| 4 | Point | 3-11-10 | | Near Face | 111 lb | 296 lb | 0 lb | 0 lb | Pass-Through Framing Squash Block is required at all point loads over bearings |
| 5 | Point | 4-8-10 | | Near Face | 182 lb | 381 lb | 0 lb | 0 lb | Refer to Multiple Member Connection Detail for ply to ply nailing or bolting requirements |
| 6 | Point | 5-3-10 | | Near Face | 29 lb | 77 lb | 0 lb | 0 lb | |

Continued on page 2...

Notes

Calculated Structural Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

- Dry service conditions, unless noted otherwise
- LVL not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

- LVL beams must not be cut or drilled
- Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
- Damaged Beams must not be used
- Design assumes top edge is laterally restrained
- Provide lateral support at bearing points to avoid lateral displacement and rotation

- For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Forex
APA: PR-L318

Kott Lumber Company
14 Anderson Blvd, Ontario
Canada
L4A 7X4
905-642-4400



This design is valid until 10/18/2021





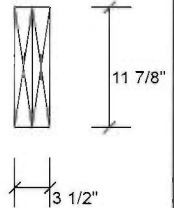
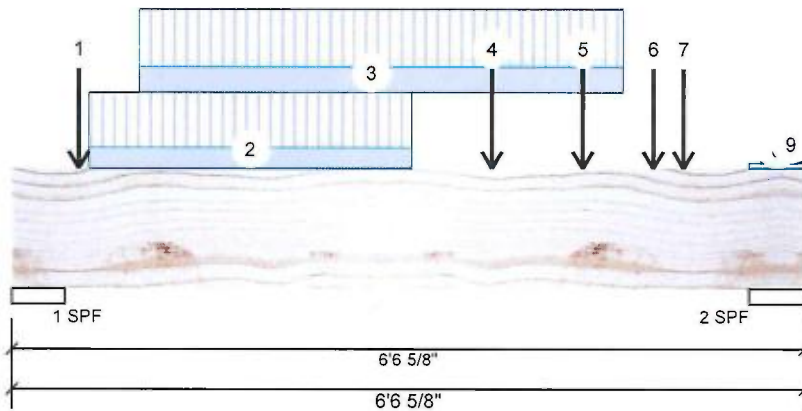
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Project:
Address:

Date: 1/29/2019
Designer: S B
Job Name: LOT-14 (AMELIA 3 EL-2_4BEDRM)
Project #:

Page 2 of 2

F11-B Forex 2.0E-3000Fb LVL 1.750" X 11.875" 2-Ply - PASSED Level: Second Floor



...Continued from page 1

| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|----|-------------|-----------------|--------------|----------|--------|--------|-------|-------|----------|
| 7 | Point | 5-6-10 | | Far Face | 101 lb | 226 lb | 0 lb | 0 lb | J1 |
| 8 | Tie-In | 6-1-2 to 6-6-10 | (Span)1-0-1 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 9 | Tie-In | 6-2-4 to 6-6-10 | (Span)0-3-15 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| | Self Weight | | | | 10 PLF | | | | |



February 04, 2019

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

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.

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

chemicals**Handling & Installation**

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Forex
APA: PR-L318

Kott Lumber Company
14 Anderson Blvd, Ontario
Canada
L4A 7X4
905-642-4400



This design is valid until 10/18/2021

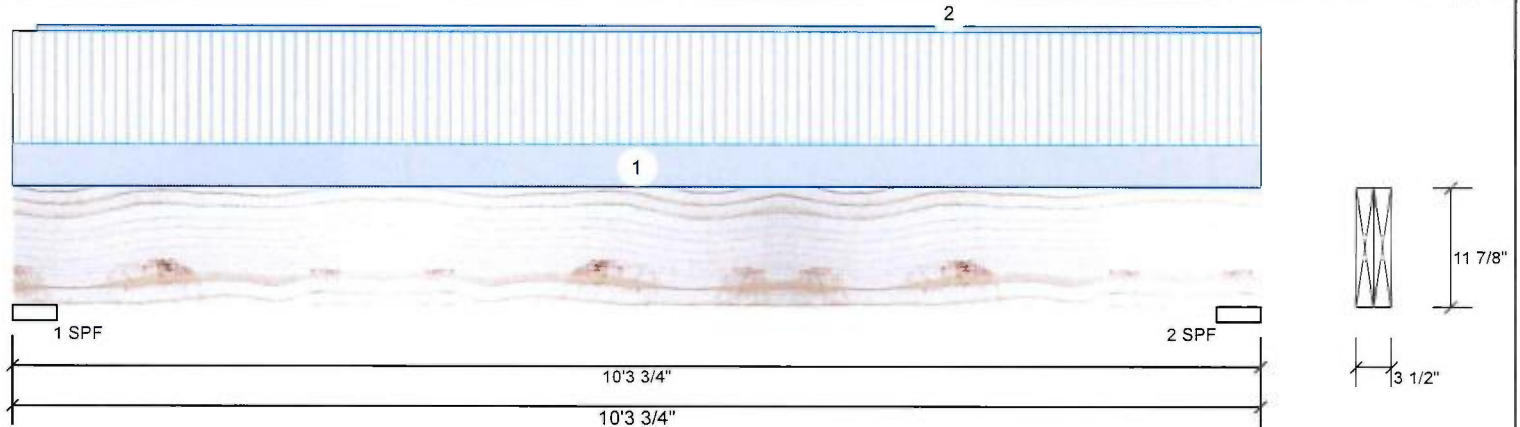




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Client:
Project:
Address:

F-GREEN YORK HOMES- LOT 14 (AMELIA 3 EL-2)

Date: 1/29/2019
Designer: S B
Job Name: LOT-14 (AMELIA 3 EL-2 _4BEDRM)
Project #:IM0219-003
Page 1 of 1**F12-A Forex 2.0E-3000Fb LVL 1.750" X 11.875" 2-Ply - PASSED** Level: Second Floor**Member Information**

| | | | |
|---------------------|--------|----------------|----------------------|
| Type: | Girder | Application: | Floor (Residential) |
| Plies: | 2 | Design Method: | LSD |
| Moisture Condition: | Dry | Building Code: | NBCC 2010 / OBC 2012 |
| Deflection LL: | 360 | Load Sharing: | No |
| Deflection TL: | 240 | Deck: | Not Checked |
| Importance: | Normal | Vibration: | Not Checked |
| General Load | | | |
| Floor Live: | 40 PSF | | |
| Dead: | 15 PSF | | |

Unfactored Reactions UNPATTERNED lb (Uplift)

| Brg | Live | Dead | Snow | Wind |
|-----|------|------|------|------|
| 1 | 97 | 91 | 0 | 0 |
| 2 | 97 | 91 | 0 | 0 |

Bearings and Factored Reactions

| Bearing | Length | Cap. React D/L lb | Total | Ld. Case | Ld. Comb. |
|---------|--------|-------------------|-----------|----------|------------|
| 1 - SPF | 4.375" | 3% | 113 / 146 | 259 L | 1.25D+1.5L |
| 2 - SPF | 4.375" | 3% | 113 / 146 | 259 L | 1.25D+1.5L |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|---------------|-----------------|----------|---------------|------------|------------|---------|
| Moment | 592 ft-lb | 5'1 7/8" | 34261 ft-lb | 0.017 (2%) | 1.25D+1.5L | L |
| Unbraced | 592 ft-lb | 5'1 7/8" | 29876 ft-lb | 0.020 (2%) | 1.25D+1.5L | L |
| Shear | 194 lb | 9' 1/4" | 11596 lb | 0.017 (2%) | 1.25D+1.5L | L |
| Perm Defl in. | 0.004 (L/27908) | 5'1 7/8" | 0.324 (L/360) | 0.010 (1%) | D | Uniform |
| LL Defl inch | 0.004 (L/26047) | 5'1 7/8" | 0.324 (L/360) | 0.010 (1%) | L | L |
| TL Defl inch | 0.009 (L/13473) | 5'1 7/8" | 0.485 (L/240) | 0.020 (2%) | D+L | L |

Design Notes

- Girders are designed to be supported on the bottom edge only.
 - Multiple plies must be fastened together as per manufacturer's details.
 - Top loads must be supported equally by all plies.
 - Top braced at bearings.
 - Bottom braced at bearings.
 - Lateral slenderness ratio based on full section width.
- Refer to Multiple Member Connection Detail for ply to ply nailing or bolting requirements**



February 04, 2019

| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|----|---------------|------------------|--------------|------|--------|--------|-------|-------|----------|
| 1 | Tie-In | 0-0-0 to 10-3-12 | (Span)0-11-5 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 2 | Part. Uniform | 0-2-5 to 10-3-12 | | Top | 1 PLF | 0 PLF | 0 PLF | 0 PLF | |
| | Self Weight | | | | 10 PLF | | | | |

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 CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

Notes

Calculated Structural Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

- Dry service conditions, unless noted otherwise
- LVL not to be treated with fire retardant or corrosive

chemicals**Handling & Installation**

- LVL beams must not be cut or drilled
- Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
- Damaged Beams must not be used
- Design assumes top edge is laterally restrained
- Provide lateral support at bearing points to avoid lateral displacement and rotation

- For flat roofs provide proper drainage to prevent ponding

Manufacturer InfoForex
APA: PR-L318Kott Lumber Company
14 Anderson Blvd, Ontario
Canada
L4A 7X4
905-642-4400

This design is valid until 10/18/2021





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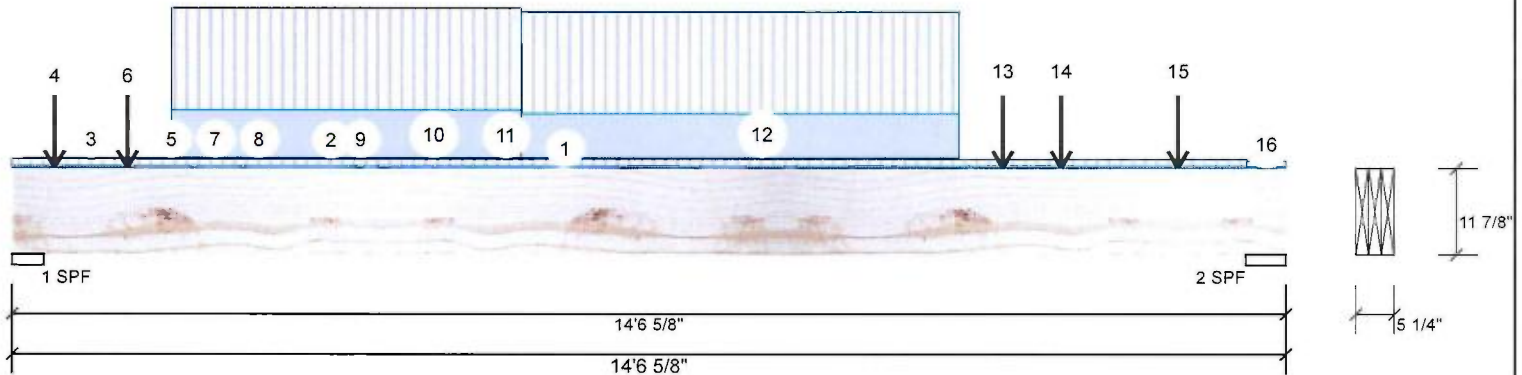
F-GREEN YORK HOMES- LOT 14 (AMELIA 3 EL-2)

Date: 1/29/2019
Designer: S B
Job Name: LOT-14 (AMELIA 3 EL-2 _4BEDRM)
Project #:

IM0219-003

Page 1 of 2

F13-A Forex 2.0E-3000Fb LVL 1.750" X 11.875" 3-Ply - PASSED Level: Second Floor



Member Information

| | | | |
|---------------------|--------|----------------|----------------------|
| Type: | Girder | Application: | Floor (Residential) |
| Plies: | 3 | Design Method: | LSD |
| Moisture Condition: | Dry | Building Code: | NBCC 2010 / OBC 2012 |
| Deflection LL: | 360 | Load Sharing: | Yes |
| Deflection TL: | 240 | Deck: | Not Checked |
| Importance: | Normal | Vibration: | Not Checked |
| General Load | | | |
| Floor Live: | 40 PSF | | |
| Dead: | 15 PSF | | |

Unfactored Reactions UNPATTERNED lb (Uplift)

| Brg | Live | Dead | Snow | Wind |
|-----|------|------|------|------|
| 1 | 2079 | 1064 | 0 | 0 |
| 2 | 2002 | 945 | 0 | 0 |

Bearings and Factored Reactions

| Bearing | Length | Cap. React D/L lb | Total | Ld. Case | Ld. Comb. |
|---------|--------|-------------------|-------------|----------|------------|
| 1 - SPF | 4.375" | 31% | 1330 / 3118 | 4449 L | 1.25D+1.5L |
| 2 - SPF | 5.500" | 24% | 1181 / 3003 | 4185 L | 1.25D+1.5L |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|---------------|----------------|-----------|---------------|-------------|------------|---------|
| Moment | 14991 ft-lb | 7'2 3/8" | 53447 ft-lb | 0.280 (28%) | 1.25D+1.5L | L |
| Unbraced | 14991 ft-lb | 7'2 3/8" | 50470 ft-lb | 0.297 (30%) | 1.25D+1.5L | L |
| Shear | 4377 lb | 1'3 1/2" | 17394 lb | 0.252 (25%) | 1.25D+1.5L | L |
| Perm Defl in. | 0.089 (L/1875) | 7'2 5/16" | 0.462 (L/360) | 0.190 (19%) | D | Uniform |
| LL Defl inch | 0.180 (L/922) | 7'2 7/8" | 0.462 (L/360) | 0.390 (39%) | L | L |
| TL Defl inch | 0.269 (L/618) | 7'2 5/8" | 0.693 (L/240) | 0.390 (39%) | D+L | L |

Design Notes

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

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.



February 04, 2019

| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|----|---------------|------------------|--------------|----------|--------|--------|-------|-------|---|
| 1 | Tie-In | 0-0-0 to 14-1-4 | (Span)0-10-8 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 2 | Part. Uniform | 0-1-9 to 5-11-10 | | Top | 2 PLF | 0 PLF | 0 PLF | 0 PLF | |
| 3 | Part. Uniform | 0-1-9 to 1-3-13 | | Top | 1 PLF | 0 PLF | 0 PLF | 0 PLF | |
| 4 | Point | 0-5-13 | | Far Face | 92 lb | 190 lb | 0 lb | 0 lb | Pass-Thru Framing Squash Block is required at all point loads over bearings |
| 5 | Part. Uniform | 1-3-13 to 2-3-13 | | Top | 1 PLF | 0 PLF | 0 PLF | 0 PLF | |
| 6 | Point | 1-3-13 | | Far Face | 123 lb | 255 lb | 0 lb | 0 lb | Refer to Multiple Member Connection Detail for ply to ply nailing or bolting requirements |

Continued on page 2...

Notes

Calculated Structural Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

- Dry service conditions, unless noted otherwise.
- LVL not to be treated with fire retardant or corrosive chemicals.

Handling & Installation

- LVL beams must not be cut or drilled.
- Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals.
- Damaged Beams must not be used.
- Design assumes top edge is laterally restrained.
- Provide lateral support at bearing points to avoid lateral displacement and rotation.

- For flat roofs provide proper drainage to prevent ponding.

Manufacturer Info

Forex
APA: PR-L318

Kott Lumber Company
14 Anderson Blvd, Ontario
Canada
L4A 7X4
905-642-4400



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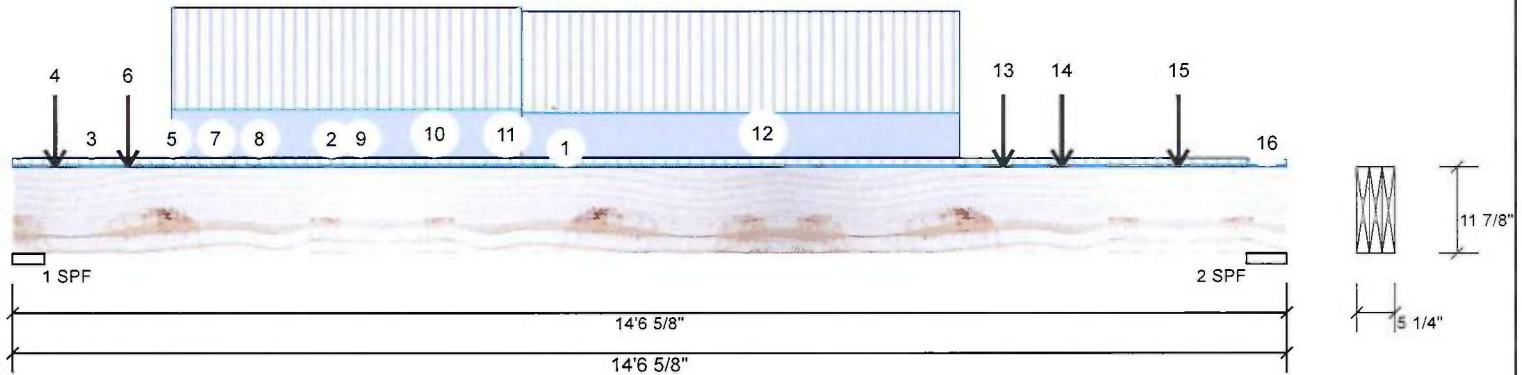
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Project:
Address:

F-GREEN YORK HOMES- LOT 14 (AMELIA 3 EL-2)

Date: 1/29/2019
Designer: S B
Job Name: LOT-14 (AMELIA 3 EL-2_4BEDRM)
Project #:

IM0219-003
Page 2 of 2

F13-A Forex 2.0E-3000Fb LVL 1.750" X 11.875" 3-Ply - PASSED Level: Second Floor



...Continued from page 1

| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|----|---------------|-------------------|-------------|----------|---------|---------|-------|-------|----------|
| 7 | Part. Uniform | 1-9-13 to 5-9-13 | | Far Face | 132 PLF | 278 PLF | 0 PLF | 0 PLF | |
| 8 | Part. Uniform | 2-3-13 to 3-3-13 | | Top | 1 PLF | 0 PLF | 0 PLF | 0 PLF | |
| 9 | Part. Uniform | 3-3-13 to 4-3-13 | | Top | 1 PLF | 0 PLF | 0 PLF | 0 PLF | |
| 10 | Part. Uniform | 4-3-13 to 5-3-13 | | Top | 1 PLF | 0 PLF | 0 PLF | 0 PLF | |
| 11 | Part. Uniform | 5-3-13 to 5-11-10 | | Top | 1 PLF | 0 PLF | 0 PLF | 0 PLF | |
| 12 | Part. Uniform | 5-9-13 to 10-9-13 | | Far Face | 122 PLF | 278 PLF | 0 PLF | 0 PLF | |
| 13 | Point | 11-3-13 | | Far Face | 93 lb | 232 lb | 0 lb | 0 lb | J1 |
| 14 | Point | 11-11-13 | | Far Face | 104 lb | 278 lb | 0 lb | 0 lb | J1 |
| 15 | Point | 13-3-13 | | Far Face | 139 lb | 371 lb | 0 lb | 0 lb | J1 |
| 16 | Tie-In | 14-1-4 to 14-6-10 | (Span)0-8-8 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| | Self Weight | | | | 14 PLF | | | | |



February 04, 2019

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

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.

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multiply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Forex
APA: PR-L318

Kott Lumber Company
14 Anderson Blvd, Ontario
Canada
L4A 7X4
905-642-4400



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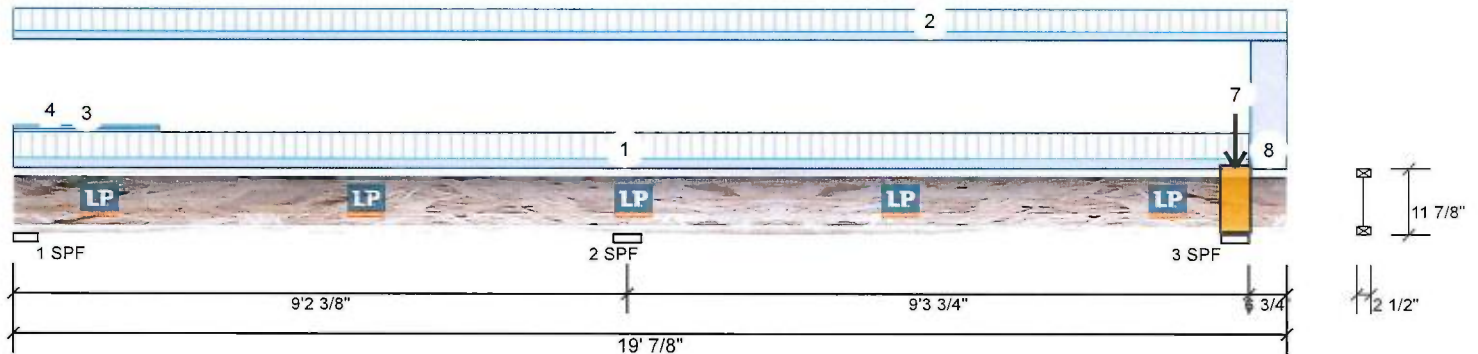
Date: 1/29/2019
Designer: S B
Job Name: LOT-14 (AMELIA 3 EL-2 _4BEDRM)
Project #:

IM0219-003

Page 1 of 2

F16-A LPI 20Plus 11.875" - PASSED

Level: Second Floor

**Member Information**

| | | | |
|---------------------|--------|----------------|----------------------|
| Type: | Girder | Application: | Floor (Residential) |
| Plies: | 1 | Design Method: | LSD |
| Moisture Condition: | Dry | Building Code: | NBCC 2010 / OBC 2012 |
| Deflection LL: | 360 | Load Sharing: | No |
| Deflection TL: | 240 | Deck: | Not Checked |
| Importance: | Normal | Vibration: | Not Checked |
| General Load | | | |
| Floor Live: | 40 PSF | | |
| Dead: | 15 PSF | | |

Unfactored Reactions UNPATTERNED lb (Uplift)

| Brg | Live | Dead | Snow | Wind |
|-----|------|------|--------|------|
| 1 | 113 | 51 | 1 | 0 |
| 2 | 327 | 118 | 0 (-4) | 0 |
| 3 | 129 | 257 | 207 | 0 |

Bearings and Factored Reactions

| Bearing | Length | Cap. React D/L lb | Total | Ld. Case | Ld. Comb. |
|---------|--------|-------------------|-----------|----------|------------|
| 1 - SPF | 4.375" | 15% | 62 / 189 | 251 L | 1.25D+1.5L |
| 2 - SPF | 5.000" | 16% | 151 / 502 | 653 LL | 1.25D+1.5L |
| 3 - SPF | 5.000" | 25% | 320 / 311 | 631 L | 1.25D+1.5S |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|---------------|------------------|-----------|----------------|-------------|------------|---------|
| Neg Moment | -579 ft-lb | 9'2 3/8" | 6250 ft-lb | 0.093 (9%) | 1.25D+1.5L | LL |
| Pos Moment | 426 ft-lb | 4' 3/4" | 5688 ft-lb | 0.075 (7%) | 1.25D+1.5L | L |
| Shear | 566 lb | 18'6 1/8" | 1970 lb | 0.287 (29%) | 1.25D+1.5S | L |
| Perm Defl in. | 0.005 (L/22428) | 4'4 1/2" | 0.297 (L/360) | 0.020 (2%) | D | Uniform |
| LL Defl inch | 0.015 (L/6984) | 4'7 5/16" | 0.297 (L/360) | 0.050 (5%) | L+0.5S | LL |
| TL Defl inch | 0.020 (L/5329) | 4'6 5/8" | 0.445 (L/240) | 0.050 (5%) | D+L+0.5S | LL |
| LL Cant | -0.002 (2L/5898) | Rt Cant | 0.200 (2L/480) | 0.011 (1%) | L | LL |
| TL Cant | -0.002 (2L/7025) | Rt Cant | 0.300 (2L/360) | 0.006 (1%) | D+L | LL |

Design Notes

- 1 Provide restraint at supports to ensure lateral stability.
- 2 Applied loads over end bearings and loads exceeding 250 lbs over intermediate bearings must be transferred directly to the support by rim board, blocking, squash blocks, or other device.
- 3 Dead Load Deflection: Instant = 0.005", Long Term = 0.007"
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top flange braced at bearings.
- 6 Bottom flange braced at bearings.

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



February 04, 2019

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.

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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This design is valid until 10/31/2020

Manufacturer Info

Louisiana-Pacific Corp
414 Union Street, Suite 2000
Nashville, TN 37219
(888) 820-0325
www.lpcorp.com
CCMC: 12412-R APA: PR-L238C

Kott Lumber Company
14 Anderson Blvd, Ontario
Canada
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905-642-4400





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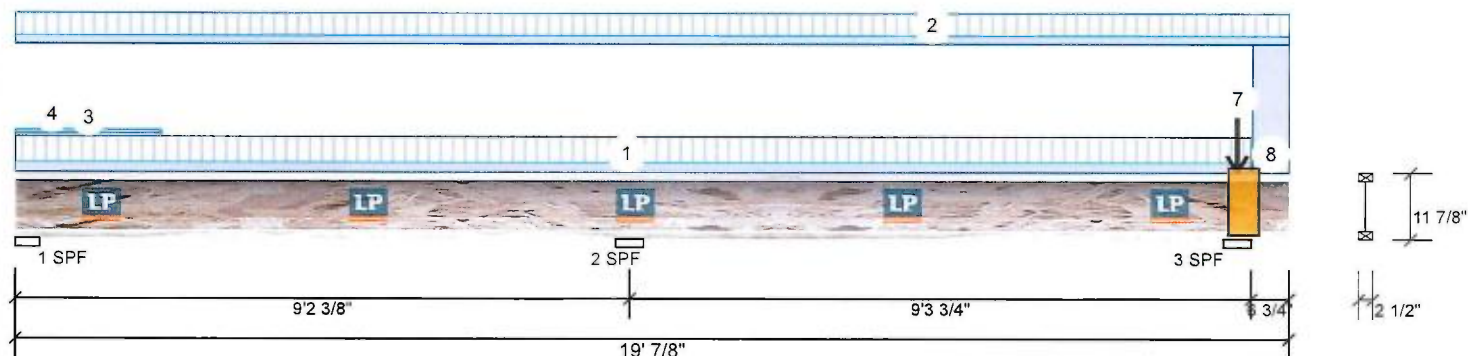
Client:
Project:
Address:

Date: 1/29/2019
Designer: S B
Job Name: LOT-14 (AMELIA 3 EL-2_4BEDRM)
Project #:

Page 2 of 2

F16-A LPI 20Plus 11.875" - PASSED

Level: Second Floor



| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|----|----------------|-------------------|--------------|------|--------|--------|--------|-------|------------------|
| 1 | Tie-In | 0-0-0 to 18-6-1 | (Span)0-9-11 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 2 | Tie-In | 0-0-0 to 19-0-14 | (Span)0-8-5 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 3 | Part. Uniform | 0-0-0 to 2-2-3 | | Top | 2 PLF | 0 PLF | 0 PLF | 0 PLF | |
| 4 | Part. Uniform | 0-0-0 to 2-2-3 | | Top | 2 PLF | 0 PLF | 0 PLF | 0 PLF | |
| 5 | Point | 18-3-10 | | Top | 120 lb | 6 lb | 203 lb | 0 lb | F2 F2 |
| | Bearing Length | 0-1-8 | | | | | | | |
| 6 | Point | 18-3-10 | | Top | 7 lb | 0 lb | 0 lb | 0 lb | Wall Self Weight |
| | Bearing Length | 0-1-8 | | | | | | | |
| 7 | Point | 18-3-10 | | Top | 36 lb | 0 lb | 0 lb | 0 lb | Wall Self Weight |
| | Bearing Length | 0-1-8 | | | | | | | |
| 8 | Part. Uniform | 18-6-6 to 19-0-14 | | Top | 80 PLF | 0 PLF | 0 PLF | 0 PLF | Wall Self Weight |



February 04, 2019

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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ENGINEERING NOTE PAGE ENP-2. THE NOTE PAGE
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IN THE DESIGN OF THIS COMPONENT.

Notes

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This design is valid until
10/31/2020

Manufacturer Info

Louisiana-Pacific Corp
414 Union Street, Suite 2000
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(888) 820-0325
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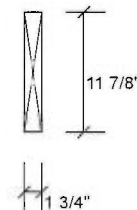
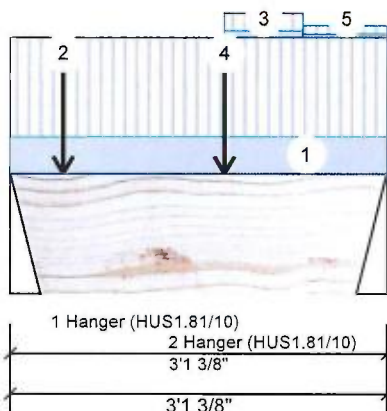
IM0219-003

Date: 1/29/2019
Designer: S B
Job Name: LOT-14 (AMELIA 3 EL-2_4BEDRM)
Project #:

Page 1 of 1

F6-A Forex 2.0E-3000Fb LVL 1.750" X 11.875" - PASSED

Level: Second Floor

**Member Information**

| | | | |
|---------------------|--------|----------------|----------------------|
| Type: | Girder | Application: | Floor (Residential) |
| Plies: | 1 | Design Method: | LSD |
| Moisture Condition: | Dry | Building Code: | NBCC 2010 / OBC 2012 |
| Deflection LL: | 360 | Load Sharing: | No |
| Deflection TL: | 240 | Deck: | Not Checked |
| Importance: | Normal | Vibration: | Not Checked |
| General Load | | | |
| Floor Live: | 40 PSF | | |
| Dead: | 15 PSF | | |

Unfactored Reactions UNPATTERNED lb (Uplift)

| Brg | Live | Dead | Snow | Wind |
|-----|------|------|------|------|
| 1 | 496 | 193 | 0 | 0 |
| 2 | 454 | 178 | 0 | 0 |

Bearings and Factored Reactions

| Bearing | Length | Cap. React | D/L lb | Total | Ld. Case | Ld. Comb. |
|------------|--------|------------|-----------|-------|----------|------------|
| 1 - Hanger | 3.000" | 25% | 242 / 745 | 987 | L | 1.25D+1.5L |
| 2 - Hanger | 3.000" | 23% | 222 / 680 | 902 | L | 1.25D+1.5L |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|---------------|-----------------|-----------|---------------|------------|------------|---------|
| Moment | 576 ft-lb | 1'8 1/8" | 17130 ft-lb | 0.034 (3%) | 1.25D+1.5L | L |
| Unbraced | 576 ft-lb | 1'8 1/8" | 14337 ft-lb | 0.040 (4%) | 1.25D+1.5L | L |
| Shear | 423 lb | 1'2 1/8" | 5798 lb | 0.073 (7%) | 1.25D+1.5L | L |
| Perm Defl in. | 0.001 (L/35085) | 1'7 9/16" | 0.091 (L/360) | 0.010 (1%) | D | Uniform |
| LL Defl inch | 0.002 (L/13712) | 1'7 9/16" | 0.091 (L/360) | 0.030 (3%) | L | L |
| TL Defl inch | 0.003 (L/9859) | 1'7 9/16" | 0.137 (L/240) | 0.020 (2%) | D+L | L |

Design Notes

- 1 Fill all hanger nailing holes.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Top braced at bearings.
- 4 Bottom braced at bearings.



February 04, 2019

| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|----|---------------|----------------|--------------|----------|--------|---------|-------|-------|----------|
| 1 | Part. Uniform | 0-0-0 to 3-1-6 | | Top | 90 PLF | 240 PLF | 0 PLF | 0 PLF | |
| 2 | Point | 0-5-4 | | Far Face | 35 lb | 94 lb | 0 lb | 0 lb | J9 |
| 3 | Tie-In | 1-9-4 to 2-5-0 | (Span)2-1-11 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 4 | Point | 1-9-4 | | Far Face | 25 lb | 66 lb | 0 lb | 0 lb | J9 |
| 5 | Tie-In | 2-5-0 to 3-1-6 | (Span)1-0-11 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| | Self Weight | | | | 5 PLF | | | | |

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

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.

Notes

Calculated Structural Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer InfoForex
APA: PR-L318Kott Lumber Company
14 Anderson Blvd, Ontario
Canada
L4A 7X4
905-642-4400

This design is valid until 10/18/2021





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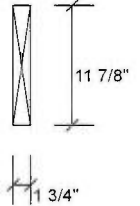
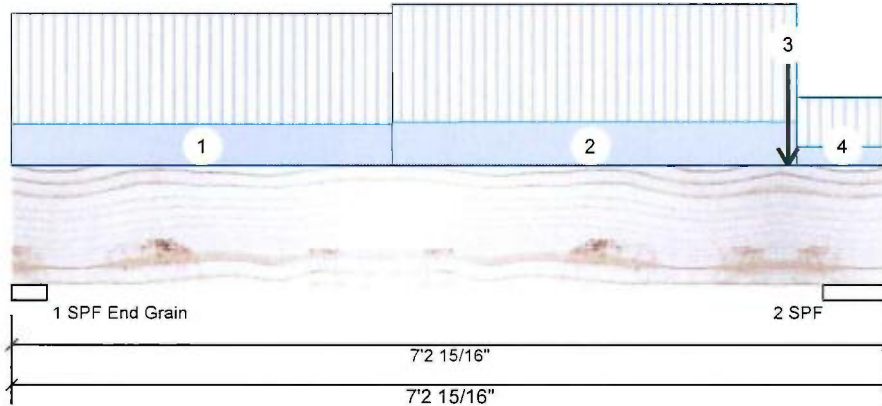
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Project:
Address:

Date: 1/29/2019
Designer: S B
Job Name: LOT-14 (AMELIA 3 EL-2 _4BEDRM)
Project #:

Page 1 of 1

F7-A Forex 2.0E-3000Fb LVL 1.750" X 11.875" - PASSED

Level: Second Floor



Member Information

| | | | |
|---------------------|--------|----------------|----------------------|
| Type: | Girder | Application: | Floor (Residential) |
| Plies: | 1 | Design Method: | LSD |
| Moisture Condition: | Dry | Building Code: | NBCC 2010 / OBC 2012 |
| Deflection LL: | 360 | Load Sharing: | No |
| Deflection TL: | 240 | Deck: | Not Checked |
| Importance: | Normal | Vibration: | Not Checked |
| General Load | | | |
| Floor Live: | 40 PSF | | |
| Dead: | 15 PSF | | |

Unfactored Reactions UNPATTERNED lb (Uplift)

| Brg | Live | Dead | Snow | Wind |
|-----|------|------|------|------|
| 1 | 248 | 110 | 0 | 0 |
| 2 | 648 | 268 | 0 | 0 |

Bearings and Factored Reactions

| Bearing | Length | Cap. React D/L lb | Total Ld. Case | Ld. Comb. |
|-------------------|--------|-------------------|----------------|-------------------|
| 1 - SPF End Grain | 3.500" | 11% | 138 / 373 | 510 L 1.25D+1.5L |
| 2 - SPF | 6.438" | 19% | 335 / 972 | 1307 L 1.25D+1.5L |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|-------------------------|----------------|------------|---------------|-------------|------------|---------|
| Moment | 886 ft-lb | 3'10 5/8" | 17130 ft-lb | 0.052 (5%) | 1.25D+1.5L | L |
| Unbraced | 886 ft-lb | 3'10 5/8" | 6876 ft-lb | 0.129 (13%) | 1.25D+1.5L | L |
| Shear | 1164 lb | 5'9 3/8" | 5798 lb | 0.201 (20%) | 1.25D+1.5L | L |
| Perm Defl in. (L/19184) | 0.004 | 3'7 3/4" | 0.218 (L/360) | 0.020 (2%) | D | Uniform |
| LL Defl inch | 0.009 (L/8370) | 3'7 15/16" | 0.218 (L/360) | 0.040 (4%) | L | L |
| TL Defl inch | 0.013 (L/5828) | 3'7 7/8" | 0.327 (L/240) | 0.040 (4%) | D+L | L |

Design Notes

- 1 Girders are designed to be supported on the bottom edge only.
- 2 Top braced at bearings.
- 3 Bottom braced at bearings.

| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind |
|----|-------------|------------------|--------------|----------|--------|--------|-------|---------|
| 1 | Tie-In | 0-0-0 to 3-1-12 | (Span)3-1-13 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF |
| 2 | Tie-In | 3-1-12 to 6-5-14 | (Span)3-4-0 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF |
| 3 | Point | 6-5-0 | | Far Face | 178 lb | 454 lb | 0 lb | 0 lb F6 |
| 4 | Tie-In | 6-5-14 to 7-2-15 | (Span)1-5-0 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF |
| | Self Weight | | | | 5 PLF | | | |

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

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.



February 04, 2019

Notes

Calculated Structural Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multiply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Forex
APA: PR-L318



Kott Lumber Company
14 Anderson Blvd, Ontario
Canada
L4A 7X4
905-642-4400



This design is valid until 10/18/2021

