


TRUE COPY
OF PERMIT PLANS
Nov 23 2023

PER: 
CHIEF BUILDING OFFICIAL

Engineering Notes: EWP-Floors



MHP 23022

PLEASE READ ALL NOTES PRIOR TO INSTALLATION OF THE COMPONENT

RESPONSIBILITIES

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.

COMPONENT DESIGN INFORMATION

1. THIS BUILDING COMPONENT IS CERTIFIED AS AN INDIVIDUAL COMPONENT FOR THE LOADS AND CONDITIONS SHOWN ON THE CALCULATION PAGE BASED ON INFORMATION PROVIDED BY KOTT DESIGN.
2. THE BUILDING COMPONENT USED IN CONSTRUCTION MUST BE THE SAME AS INDICATED ON THE DRAWINGS.
3. UNLESS NOTED OTHERWISE ON THE LAYOUT OR BEAM CALCULATION SHEET, MEMBERS CONSISTING OF MULTIPLE PLIES MUST BE CONNECTED AS PER THE DOCUMENT "MULTIPLE MEMBER CONNECTION DETAILS" SHOWN ON PAGE 2 OF THIS DOCUMENT.
4. PASS-THRU TRANSFER BLOCK FRAMING IS REQUIRED AT ALL POINT LOADS OVER BEARINGS.
5. IT IS ASSUMED THAT EACH LVL BEAM WHERE NOT SEATED IN A HANGER IS ATTACHED USING (4) FOUR 3-1/4" COMMON SPIRAL NAILS FOR UP TO 5.5" LONG BEARINGS AND USING (6) SIX 3-1/4" COMMON SPIRAL NAILS FOR BEARINGS EQUAL TO OR LONGER THAN 5.5", UNLESS INDICATED OTHERWISE.

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.

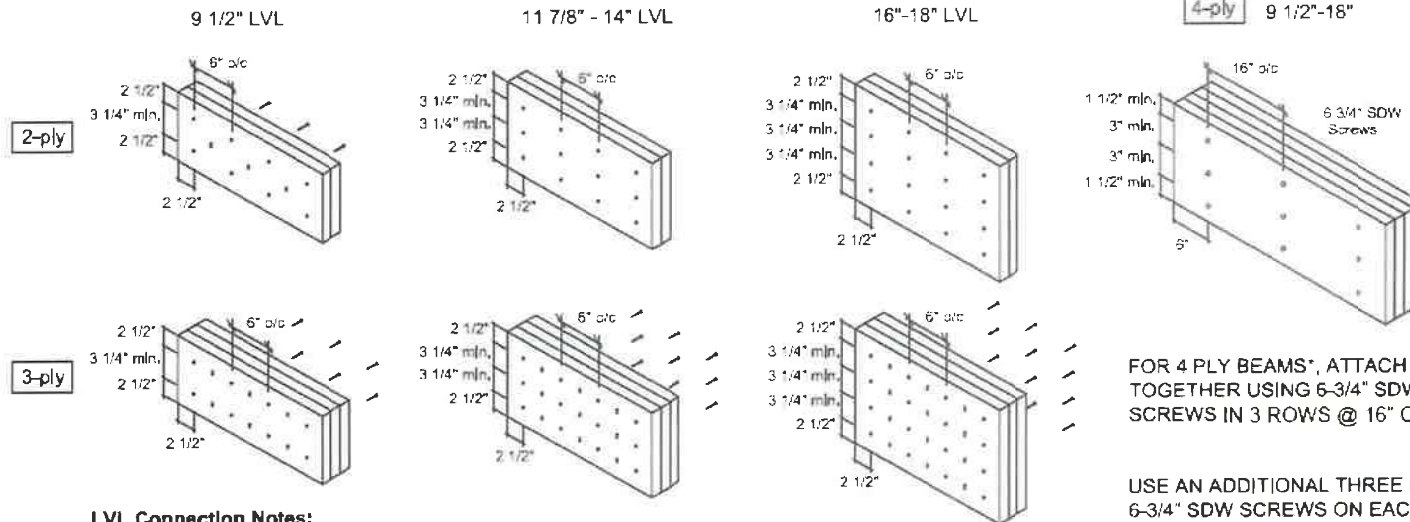
HANDLING AND INSTALLATION

1. DO NOT DRILL ANY HOLE, CUT OR NOTCH A CERTIFIED BUILDING COMPONENT WITHOUT A WRITTEN PRE-AUTHORIZATION.
2. INSTALLATION AND ASSEMBLY OF FLOOR JOISTS AND LVL BEAMS IS TO BE CARRIED OUT IN ACCORDANCE WITH THE CURRENT EDITION OF THE MANUFACTURER'S LITERATURE.

MULTIPLE MEMBER CONNECTIONS FOR BEAMS SHOWN ON KOTT LAYOUTS



MULTIPLE MEMBER CONNECTIONS FOR UNIFORMLY DISTRIBUTED TOP & SIDE LOADED LVL BEAMS SHOWN ON KOTT LAYOUTS



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 driven from the opposite side.
- Head of all specified screws must be on the loaded side.

FOR 4 PLY BEAMS*, ATTACH PLYS TOGETHER USING 6-3/4" SDW SCREWS IN 3 ROWS @ 16" C/C.

USE AN ADDITIONAL THREE (3) 6-3/4" SDW SCREWS ON EACH SIDE (OF EACH FACE) AT POINT LOAD LOCATIONS @ 1/2" SPACING, WHERE APPLICABLE.

*UNLESS NOTED OTHERWISE ON LAYOUT OR CALCULATION SHEET OF BEAM IN THE FLOOR PACKAGE

FOR MULTIPLE MEMBER CONNECTION OF BOISE ALLJOISTS REFER TO THE BOISE CASCADE INSTALLATION GUIDE

Installation Guide



(Open your phone's camera and hover over this QR code to access it!)

MHP 230222

Ground Floor

1. All blocking to be cut from 12" joists
2. 2' & 4' Lengths to be cut from 8' Length, 6' lengths to be cut from 12' Length
3. Ends of joists to be laterally supported
4. Packing of Steel beams and attachment by others
5. Shower and water closet (flange) locations are approximate only, consult architectural drawing for exact locations
6. Beams identified as "B" are dropped and supplied by others
7. Install 2x4 blocking @ 24" o/c under parallel non-loadbearing walls
8. Load transfer blocks to be installed under all point loads
9. Refer to Multiple Member Connection Detail for ply to ply nailing or bolting requirements
10. Hangers and Fasteners to be installed as per manufacturer
11. Framing shown on this layout may deviate from architectural drawings, Arch / Eng to review and approve the deviation prior to construction.
12. Multi ply beams with side loading to have all fasteners installed with the head on the side of the applied load
13. Confirmation of adequate support & anchorage of components is the responsibility of the building designer, suggested uplift connectors are as shown
14. Where beam hangers on side of 3-ply member, it is recommended that the equivalent quantity and size of nails required for the hanger attachment also be installed on opposite side of the 3-ply member.

Ground Floor
LVL/LSL (Flush)

Label	Description	Width	Depth	Qty	Piles	Pcs	Length
F9	Versa-Lam LVL 2.1E 3100 SP	1.75	9.5	2	2	4	12'-0"
F4	Versa-Lam LVL 2.1E 3100 SP	1.75	9.5			1	12'-0"
F8	Versa-Lam LVL 2.1E 3100 SP	1.75	9.5	2	2	4	10'-0"
F10	Versa-Lam LVL 2.1E 3100 SP	1.75	9.5	1	2	2	8'-0"
FH7	Versa-Lam LVL 2.1E 3100 SP	1.75	9.5	1	2	2	4'-0"
F6	Versa-Lam LVL 2.3E 3100 S5	1.75	9.5			1	4'-0"

	2.1E 310
Joist (Flush)	

Label	Description	Width	Depth	Pcs	Length
F2	AJS 140	2.5	9.5	6	14-0
F3	AJS 140	2.5	9.5	1	4-0
F1	AJS 140	2.5	9.5	4	2-0
J4	AJS 140	2.5	9.5	30	14-0
J3	AJS 140	2.5	9.5	13	12-0
J2	AJS 140	2.5	9.5	7	10-0
J1	AJS 140	2.5	9.5	6	8-0

	51	A3
	Rim Board	

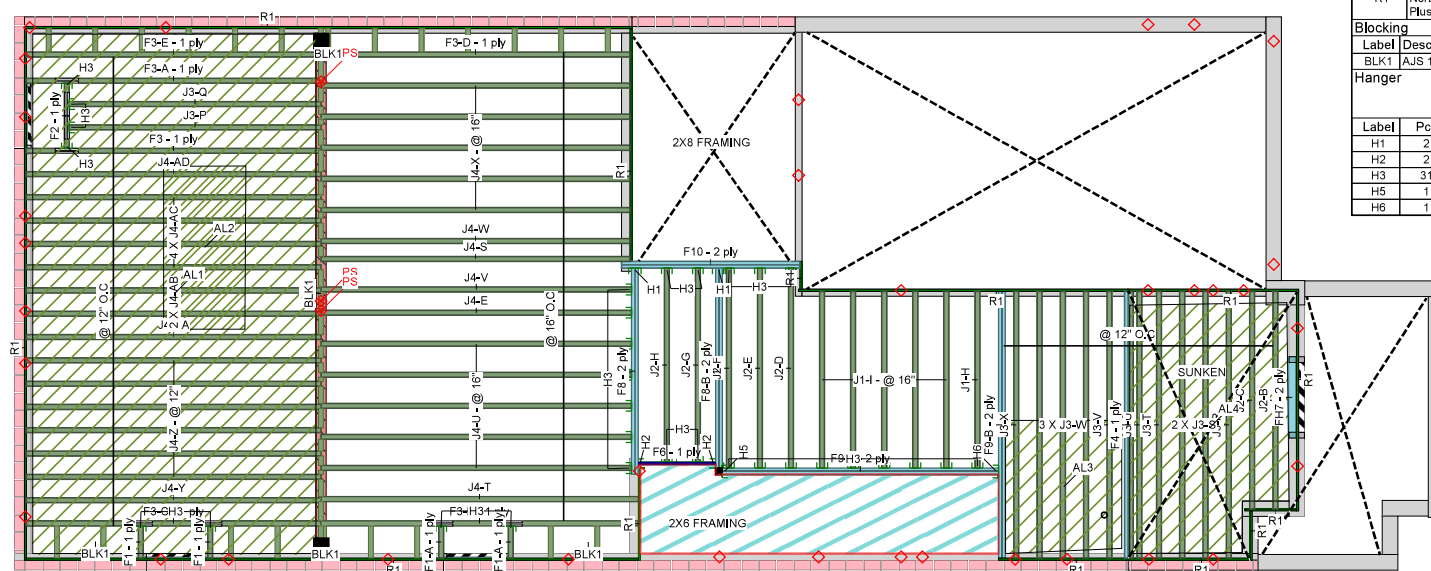
Label	Description	Width	Depth	Pcs	Length
R1	Norbord Rimboard Plus 1,125 X 9,5	1,125	9,5	12	12-0-

Blocking

Label	Description	Width	Depth	Qty	Pcs	Length
BLK1	AJS 140	2,5	9,5	LinFt	Varies	42-0-

BERG	10
Hanger	

		Beam/Girder	Supported Member
Label	Pcs	Description	fasteners
H1	2	LF359	10 10d
H2	2	HUS1,81/10	30 16d
H3	31	LF259	10 10dx1 1/2
H5	1	HUC410 (Min)	14 16d
H6	1	HHUS410	30 16d



JOB INFORMATION

[illegible]

DESIGN CRITERIA

Ground Floor	
Design Method	LSD (Canada)
Building Code	NBCC 2015 OBC 2012(2020 Update)

0 Floor

Loads	
Live	40
Dead	15

Deflection Joist

LL Span L/	360
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TL Span L/

Deflection Flush Girder

LL Span L/

TL Span L/	240
Reflection Coefficient R	

Deflection Dropped Girder

LL Span L/	360
TL Span L/	340

Deflection Header

LL Span L/ 360

TL Span L/

Decking		
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Decking

Thickness		3/4"
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Fastener	
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CCLC Referrals
Boise - 12472-R, 12787-R
LP - 12412-R, Roseburg - 13310-R
Forex - 14056-R

Kott Inc.

Kott Inc.
3228 Moodie Dr. Ottawa
14 Anderson Blvd. Bridge
Ontario
613-838-2775











Installation Guide



(Open your phone's camera and hover over this QR code to access it)

Hatch Area represents where additional load has been applied.
(e.g. 5 psf for ceramic tile)

Legend

Legend	
PS	Point Load Support
	Load from Above
	Wall
	Wall Opening
	Norbord Rimboard Plus 1.125 X 9.5
	AJS 140 9.5
	Versa-Lam LVL 2.1E 3100 SP 1.75 X 9.5
	1.75 X 9.5 (Dropped)
	5.25 X 8 (Dropped)

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ENG-IM0623-161-KTF-GREENPARK-ZADORRA ESTATES-RIVER 2-2

Ground Floor

Installation Guide



(Open your phone's camera and hover over this QR code to access it!)

1. All blocking to be cut from 12" joists
2. 2' & 4' Lengths to be cut from 8' Length, 6' lengths to be cut from 12' Length
3. Ends of joists to be laterally supported
4. Packing of Steel beams and attachment by others
5. Shower and water closet flange locations are approximate only, consult architectural drawing for exact locations
6. Beams identified as "B" are dropped and supplied by others
7. Install 2x4 blocking @ 24" o/c under parallel non-loadbearing walls
8. Load transfer blocks to be installed under all point loads
9. Refer to Multiple Member Connection Detail for ply to ply nailing or bolting requirements
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11. Framing shown on this layout may deviate from architectural drawings, Arch / Eng to review and approve the deviation prior to construction,
12. Multi ply beams with side loading to have all fasteners installed with the head on the side of the applied load
13. Confirmation of adequate support & anchorage of components is the responsibility of the building designer, suggested uplift connectors are as shown
14. Where beam hangs on side of 3-ply member, it is recommended that the equivalent quantity and size of nails required for the hanger attachment also be installed on opposite side of the 3-ply member

Ground Floor

LVL/LSL (Flush)

Label	Description	Width	Depth	Qty	Pties	Pcs	Len...
F9	Versa-Lam LVL 2.1E 3100 SP	1,75	9,5	2	2	4	12-0-0
F4	Versa-Lam LVL 2.1E 3100 SP	1,75	9,5			1	12-0-0
F8	Versa-Lam LVL 2.1E 3100 SP	1,75	9,5	2	2	4	10-0-0
F10	Versa-Lam LVL 2.1E 3100 SP	1,75	9,5	1	2	2	8-0-0
FH7	Versa-Lam LVL 2.1E 3100 SP	1,75	9,5	2	2	4	4-0-0
F6	Versa-Lam LVL 2.1E 3100 SP	1,75	9,5			1	4-0-0

I Joist (Flush)

Label	Description	Width	Depth	Pcs	Length
F3	AJS 140	2,5	9,5	4	14-0-0
F1	AJS 140	2,5	9,5	4	2-0-0
J4	AJS 140	2,5	9,5	34	14-0-0
J3	AJS 140	2,5	9,5	11	12-0-0
J2	AJS 140	2,5	9,5	7	10-0-0
J1	AJS 140	2,5	9,5	6	8-0-0

Rim Board

Label	Description	Width	Depth	Pcs	Length
R1	Norbord Rimboard Plus 1,125 X 9,5	1,125	9,5	12	12-0-0

Blocking

Label	Description	Width	Depth	Qty	Pcs	Length
BLK1	AJS 140	2,5	9,5	LinFt	Varies	42-0-0

Hanger

		Beam/Girder		Supported Member	
Label	Pcs	Description	fasteners	Description	fasteners
H1	2	LF359	10 10d	2 #8x1 1/4WS	
H2	2	HUS1,81/10	30 16d	10 16d	
H3	31	LF259	10 10dx1 1/2	1 #8x1 1/4WS	
H5	1	HUC410 (Min)	14 16d	6 10d	
H6	1	HHUS410	30 16d	10 16d	

JOB INFORMATION

Builder	GREENPARK
Project	
Shipping	ZADORRA ESTATES OSHAWA ON
Sales Rep	RALPH MIRIGELLO
Designer	W C
Plotted	June 27, 2023
Layout Name	RIVER 2-2 DC
Job Path	S:\CUSTOMERS\GREENPARK\ZADORRA ESTATES MODELS\RIVER 2\RIVER 2-2\F-RIVER 2-2\DECK CONDITION\RIVER 2-2 DC.dwg

DESIGN CRITERIA

Ground Floor	
Design Method	LSD (Canada)
Building Code	NBCC 2015 OBC 2012(2020 Update)

Floor Loads

Live	40
Dead	15

Deflection Joist

LL Span /	360
TL Span /	240

Deflection Flush Girder

LL Span /	360
TL Span /	240

Deflection Dropped Girder

LL Span /	360
TL Span /	240

Deflection Header

LL Span /	360
TL Span /	240

Decking

Decking	OSB
Thickness	3/4"
Fastener	Nailed & Glued

CCMC References

Boise - 12472-R	12187-R
LP - 12412-R	Roseburg - 13310-R
Forex - 14056-R	

Kott Inc.

3228 Moodie Dr. Oshawa	
14 Anderson Blvd. Bridgeway	
Ontario	

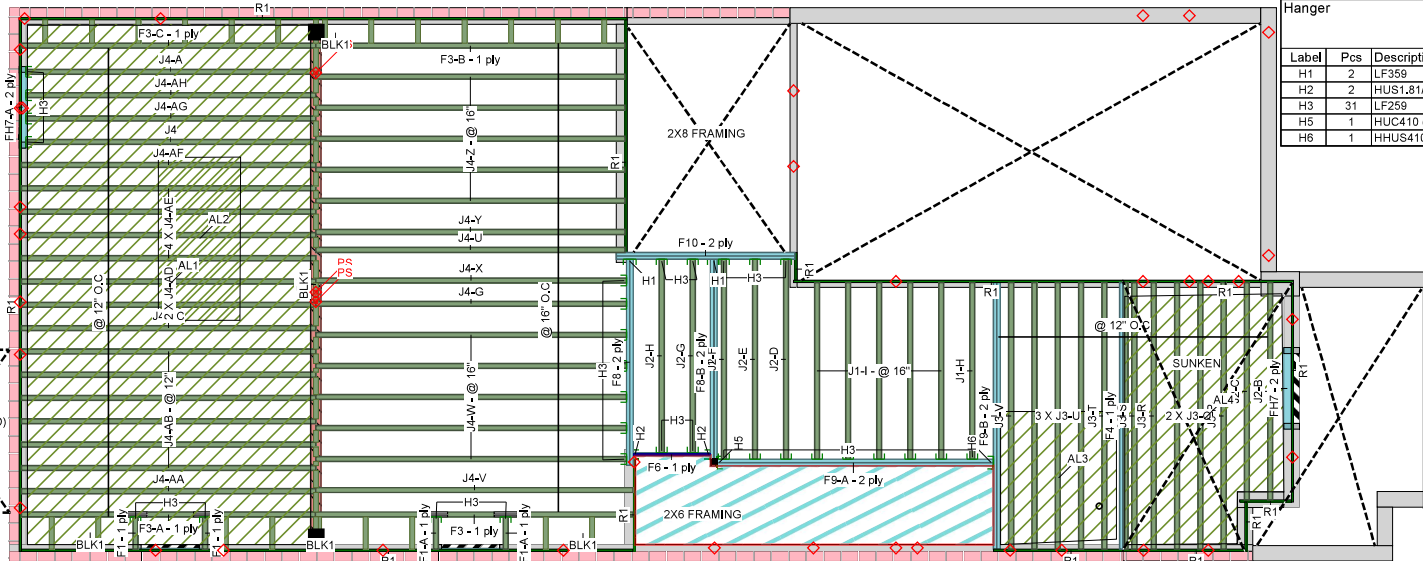
613-838-2775	
905-642-4400	



230222

WOOD DECK (GRADE PERMITTED)

2X8 FRAMING



Hatch Area represents where additional load has been applied, (e.g. 5 psf for ceramic tile)

Legend

PS	Point Load Support
◇	Load from Above
▨	Wall
▧	Wall Opening
▩	Norbord Rimboard Plus 1,125 X 9,5
▪	AJS 140 9,5
▫	Versa-Lam LVL 2.1E 3100 SP 1,75 X 9,5
▬	1,75 X 9,5 (Dropped)
▭	5,25 X 8 (Dropped)

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Second Floor

Installation Guide



(Open your phone's camera and
hover over this QR code to access it)

ENG-IM0623-161-KTF-GREENPARK-ZADORRA ESTATES-RIVER 2-2

1. All blocking to be cut from 12' joists
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Second Floor
LVL/LSL (Flush)

Label	Description	Width	Depth	Qty	Plys	Pcs	Length
F11	Versa-Lam LVL 2.1E 3100 SP	1.75	9.5	1	2	2	16-0-0
F9	Versa-Lam LVL 2.1E 3100 SP	1.75	9.5	1	2	2	12-0-0
F4	Versa-Lam LVL 2.1E 3100 SP	1.75	9.5			1	12-0-0
F8	Versa-Lam LVL 2.1E 3100 SP	1.75	9.5	1	2	2	10-0-0
F12	Versa-Lam LVL 2.1E 3100 SP	1.75	9.5	1	2	2	4-0-0

I Joist (Flush)

Label	Description	Width	Depth	Pcs	Length
J4	AJS 140	2.5	9.5	39	14-0-0
J3	AJS 140	2.5	9.5	23	12-0-0
J2	AJS 140	2.5	9.5	2	10-0-0
J1	AJS 140	2.5	9.5	14	8-0-0
J5	AJS 140	2.5	9.5	3	6-0-0

Rim Board

Label	Description	Width	Depth	Pcs	Length
R1	Norbord Rimboard Plus 1.125 X 9.5	1.125	9.5	12	12-0-0

Blocking

Label	Description	Width	Depth	Qty	Pcs	Length
BLK1	AJS 140	2.5	9.5	LinFt	Varies	50-0-0

Hanger

		Beam/Girder		Supported Member	
Label	Pcs	Description	fasteners	fasteners	
H1	1	LF359	10 10d	2 #8x1 1/4WS	
H2	2	HUS1.81/10	30 16d	10 16d	
H3	18	LF259	10 10d	1 #8x1 1/4WS	

JOB INFORMATION

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Project	
Shipping	ZADORRA ESTATES OSHAWA, ON
Sales Rep	RALPH MIRIGELLO
Designer	W C
Plotted	June 27, 2023
Layout Name	RIVER 2-2 STD & DC
Job Path	S:\CUSTOMERS\GREENPARK\ZADORRA ESTATES MODELS\RIVER 2\RIVER 2-2\F-RIVER 2-2\RIVER 2-2 STD.isl

DESIGN CRITERIA

Second Floor

Design Method	LSD (Canada)
Building Code	NBCC 2015 OBC 2012(2020 Update)

Floor

Loads	
Live	40
Dead	15
Deflection Joist	
LL Span L/	360
TL Span L/	240
Deflection Flush Girder	
LL Span L/	360
TL Span L/	240
Deflection Dropped Girder	
LL Span L/	360
TL Span L/	240
Deflection Hanger	
LL Span L/	360
TL Span L/	240
Decking	
Decking	OSB
Thickness	5/8"
Fastener	Nailed & Glued

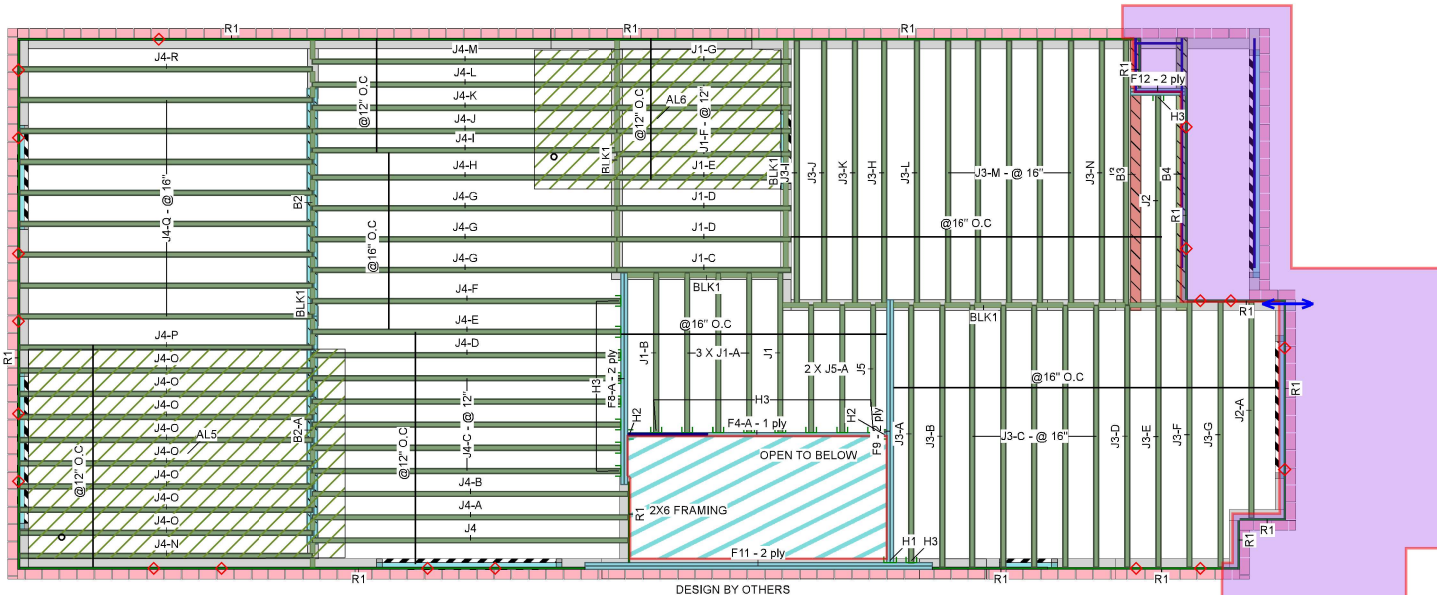
CCMC References

Boise - 12472-R, 12473-R
LP - 12412-R, R 13310-R
Forex - 14056-R

Kott Inc.	
3228 Moodie Dr. Oshawa	
14 Anderson Blvd. Unionville, Ontario	
613-838-2775	
905-642-4400	

Legend

PS	Point Load Support
◇	Load from Above
Wall	Wall
Wall Opening	Wall Opening
Norbord Rimboard Plus 1.125 X 9.5	Norbord Rimboard Plus 1.125 X 9.5
AJS 140 9.5	AJS 140 9.5
Versa-Lam LVL 2.1E 3100 SP 1.75 X 9.5	Versa-Lam LVL 2.1E 3100 SP 1.75 X 9.5
1.75 X 9.5 (Dropped)	1.75 X 9.5 (Dropped)



DESIGN BY OTHERS

Hatch Area represents where
additional load has been applied.
(e.g. 5 psf for ceramic tile)

MHP 23022