



Argo Lumber Inc.
10275 Keele Street
Maple ON L6A 1S7
Tel: 905.832.2251

Project Kings

Layout Name
4002

Builder
Esquire Homes

Shipping
Kings Crescent
Ajax, Ontario

Design Method
LSD

Created
January 29, 2018

Revised
March 14, 2019

Description
Revision 2

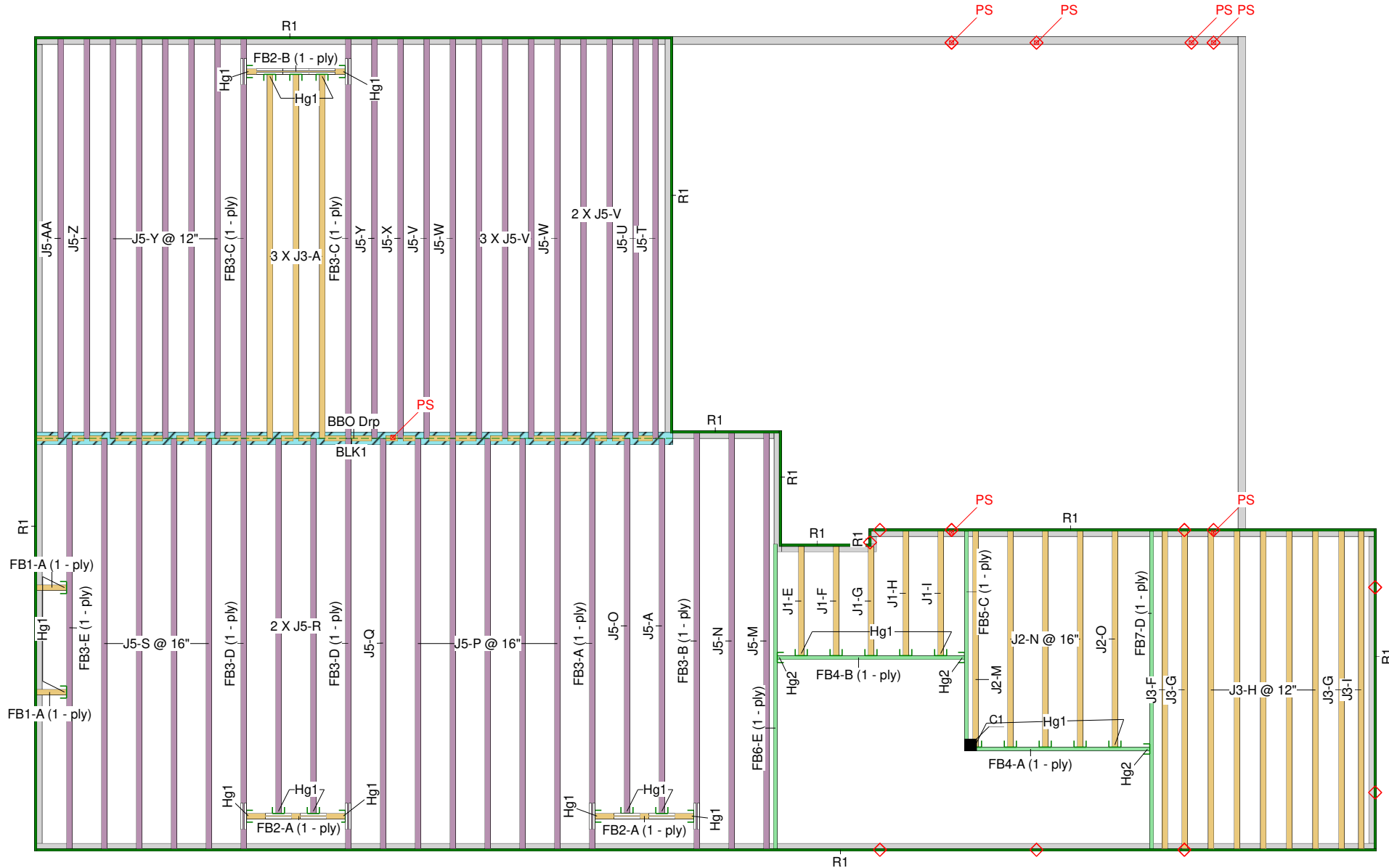
Ground Floor Elev A & B

Design Method	LSD
Building Code	NBCC 2015 / OBC 2012

Floor

Loads	
Live	40
Dead	15
Deflection Joist	
LL Span L/	360
TL Span L/	240
LL Cant 2L/	720
TL Cant 2L/	720
Deflection Girder	
LL Span L/	360
TL Span L/	240
LL Cant 2L/	720
TL Cant 2L/	720

Decking	
Deck	SPF Plywood
Thickness	3/4"
Fastener	Nailed & Glued
Vibration	



Legend

PS
◆

Point Load Support
Load from Above

Wall

Common Rim Board 1.125 X 9.5
N/A 20.0.5

NI-40x 9 5

2.0E Microllam LVL 1.75 X 9.5

5.5 X 9.5 (Dropped)

See attached sealed span charts

for all uniformly loaded beams.

**"ALL JOISTS UNDER TILED APPLICATIONS
SHALL CONFORM TO OBC 9.30.06"**

EWP manufacturers are responsible for the structural integrity of their respective products.
All "C#" callouts are End Grain Bearing Columns by Other

1. The building design professional is responsible for the overall structural stability of the structure.
2. Minimum required bearings for joists is 1.75" 3.5" for intermediate bearings
3. Minimum required bearings for LVL shall be 3" or the minimum required length indicated on the individual beam/girder member component design, whichever is greater. Each ply of the member shall be supported for the full member width for the full required minimum length of the bearing.
4. Unless otherwise noted, continuous lateral support must be provided to the compression edge of all joist/girder/beam members. Full support is considered to be a maximum unbraced length of 24". This restraint is normally provided by sheathing and/or framing members which must be adequately anchored to the member and supporting structure.
5. Provide lateral support to all joist/girder/beam member components at all bearing locations to prevent lateral displacement and rotation.
6. All joist/girder/beam member components shall be used in a dry, well ventilated environment where the moisture content will not exceed 16% such as in most covered structure.
7. Point loads from above shall be solidly blocked (squash blocks) to solid bearing below.
8. All floor sheathing must be attached (as indicated – nailed only or nailed and glued) for the entire length of the joist.
9. Blocking required over all interior supports under load bearing walls or where floor joists are not continuous over support, for cantilevered joists or when indicated on the layout.
10. All lengths and quantities must be verified prior to installation.



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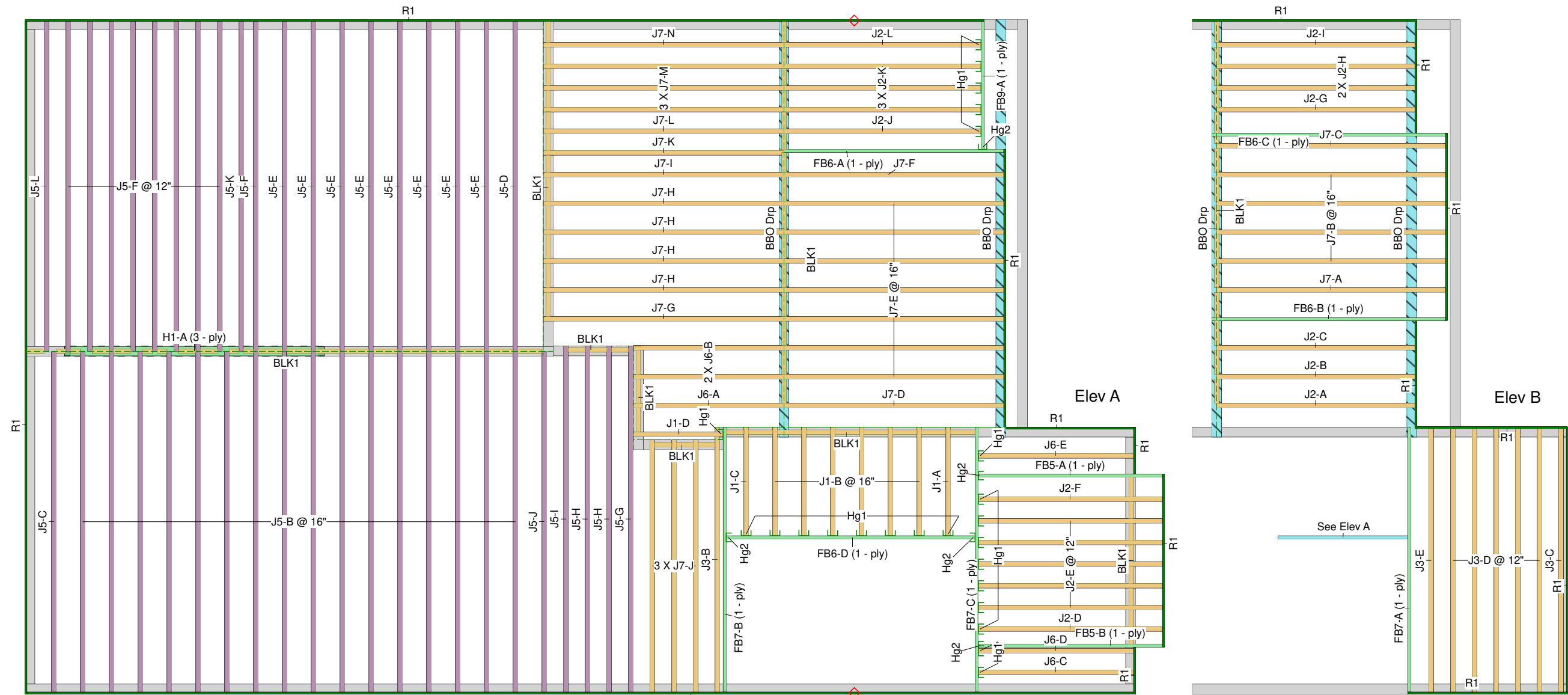
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Ajax, Ontario

Design Method
LSD

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Description
Revision 2



Legend

- PS Point Load Support
- Load from Above
- Wall
- Wall Opening
- Common Rim Board 1.125 X 9.5
- NI-20 9.5
- NI-40x 9.5
- 2.0E Microllam LVL 1.75 X 9.5 (Dropped)
- 2.0E Microllam LVL 1.75 X 9.5 1.75 X 9.5
- 5.5 X 9.5 (Dropped)

See attached sealed span charts for all uniformly loaded beams.
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- Minimum required bearings for LVL shall be 3" or the minimum required length indicated on the individual beam/girder member component design, whichever is greater. Each ply of the member shall be supported for the full member width for the full required minimum length of the bearing.
- Unless otherwise noted, continuous lateral support must be provided to the compression edge of all joist/girder/beam members. Full support is considered to be a maximum unbraced length of 24". This restraint is normally provided by sheathing and/or framing members which must be adequately anchored to the member and supporting structure.
- Provide lateral support to all joist/girder/beam member components at all bearing locations to prevent lateral displacement and rotation.
- All joist/girder/beam member components shall be used in a dry, well ventilated environment where the moisture content will not exceed 16% - such as in most covered structure.
- Point loads from above shall be solidly blocked (squash blocks) to solid bearing below.
- All floor sheathing must be attached (as indicated - nailed only or nailed and glued) for the entire length of the joist.
- Blocking required over all interior supports under load bearing walls or when floor joists are not continuous over support, for cantilevered joists or when indicated on the layout.
- All lengths and quantities must be verified prior to installation.

Second Floor Elev A & B

Design Method LSD
Building Code NBCC 2015 / OBC 2012

Floor

Loads
Live 40
Dead 15

Deflection Joist

LL Span L/ 360
TL Span L/ 240
LL Cant 2L/ 720
TL Cant 2L/ 720

Deflection Girder

LL Span L/ 360
TL Span L/ 240
LL Cant 2L/ 720
TL Cant 2L/ 720

Decking

Deck SPF Plywood
Thickness 3/4"

Fastener

Nailed & Glued

Vibration

Ceiling: Gypsum 1/2"

Second Floor Elev A & B							
I Joist							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
J3	NI-20	2.5	9.5			8	14-0-0
J7	NI-20	2.5	9.5			30	12-0-0
J2	NI-20	2.5	9.5			19	10-0-0
J6	NI-20	2.5	9.5			6	8-0-0
J1	NI-20	2.5	9.5			9	6-0-0
J5	NI-40x	2.5	9.5			42	16-0-0
Blocking							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
BLK1	NI-20	2.5	9.5	LinFt		Varies	84-0-0
LVL/LSL							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
FB7	2.0E Microllam LVL	1.75	9.5			3	14-0-0
FB6	2.0E Microllam LVL	1.75	9.5			4	12-0-0
H1	2.0E Microllam LVL	1.75	9.5	1	3	3	12-0-0
FB5	2.0E Microllam LVL	1.75	9.5			2	10-0-0
FB9	2.0E Microllam LVL	1.75	9.5			1	6-0-0
Rim Board							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
R1	Common Rim Board 1.125 X 9.5	1.125	9.5			18	12
Hanger							
				Beam/Girder		Supported Member	
Label	Pcs	Description	Skew	Slope	fasteners	fasteners	
Hg1	24	LT259			4 10dx1 1/2	2 10dx1 1/2	
Hg2	5	HUS1.81/10			30 10dx1 1/2	10 16d	