



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

Project	Kings
Layout Name	3705
Builder	Esquire Homes
Shipping	Kings Crescent Ajax, Ontario
Design Method	LSD
Created	January 29, 2018
Revised	February 12, 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

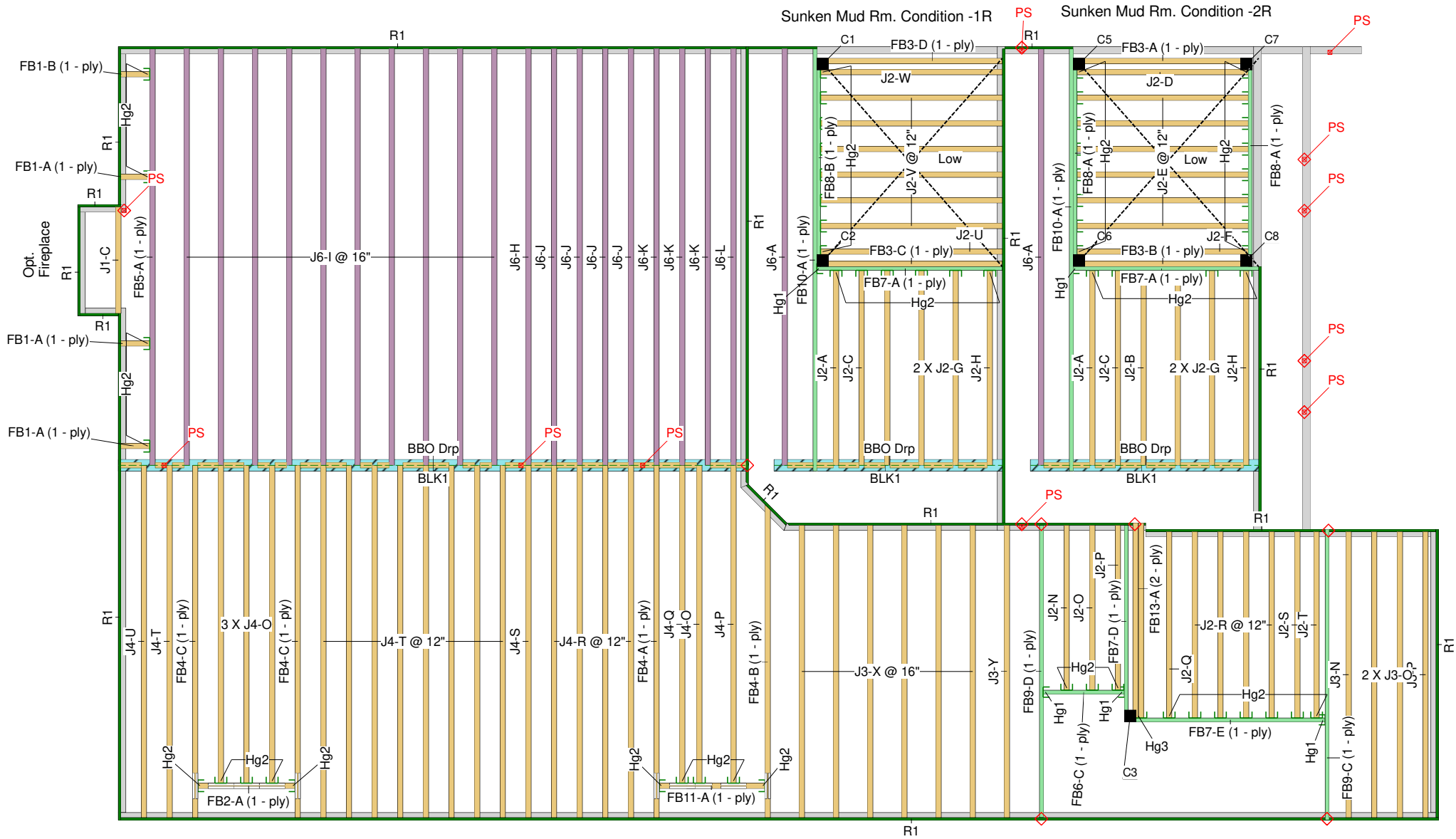
Decking

Deck SPF Plywood

Thickness 3/4"

Fastener Nailed & Glued

Vibration



1. The building design professional is responsible for the overall structural stability of the structure.
2. Minimum required bearings for joists is 1.75" x 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 when 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.

Legend

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

Ground Floor Elev A & B							
Joist							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
FB4	NI-20	2.5	9.5			4	14-0-0
FB3	NI-20	2.5	9.5			4	8-0-0
FB13	NI-20	2.5	9.5	1	2	2	8-0-0
FB11	NI-20	2.5	9.5			1	6-0-0
FB2	NI-20	2.5	9.5			1	4-0-0
FB1	NI-20	2.5	9.5			4	2-0-0
J4	NI-20	2.5	9.5			21	14-0-0
J3	NI-20	2.5	9.5			11	12-0-0
J2	NI-20	2.5	9.5			38	8-0-0
J1	NI-20	2.5	9.5			1	6-0-0
FB5	NI-40x	2.5	9.5			1	18-0-0
J6	NI-40x	2.5	9.5			21	18-0-0
Blocking							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
BLK1	NI-20	2.5	9.5	LinFt		Varies	30-0-0
LVL/LSL							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
FB10	2.0E Microllam LVL	1.75	9.5			2	18-0-0
FB9	2.0E Microllam LVL	1.75	9.5			2	12-0-0
FB8	2.0E Microllam LVL	1.75	9.5			3	10-0-0
FB7	2.0E Microllam LVL	1.75	9.5			4	8-0-0
FB6	2.0E Microllam LVL	1.75	9.5			1	4-0-0
Rim Board							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
R1	Common Rim Board 1.125 X 9.5	1.125	9.5			17	12
Hanger							
				Beam/Girder		Supported Member	
Label	Pcs	Description	Skew	Slope	fasteners	fasteners	
Hg1	5	HUS1.81/10			30 10dx1 1/2	10 16d	
Hg2	60	LT259			4 10dx1 1/2	2 10dx1 1/2	
Hg3	1	HU310-2			14 16d	6 10d	

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

See attached sealed span charts for all uniformly loaded beams.
"ALL JOISTS UNDER TILED APPLICATIONS SHALL CONFORM TO OBC 9.30.06"



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Design Method

LSD

Created

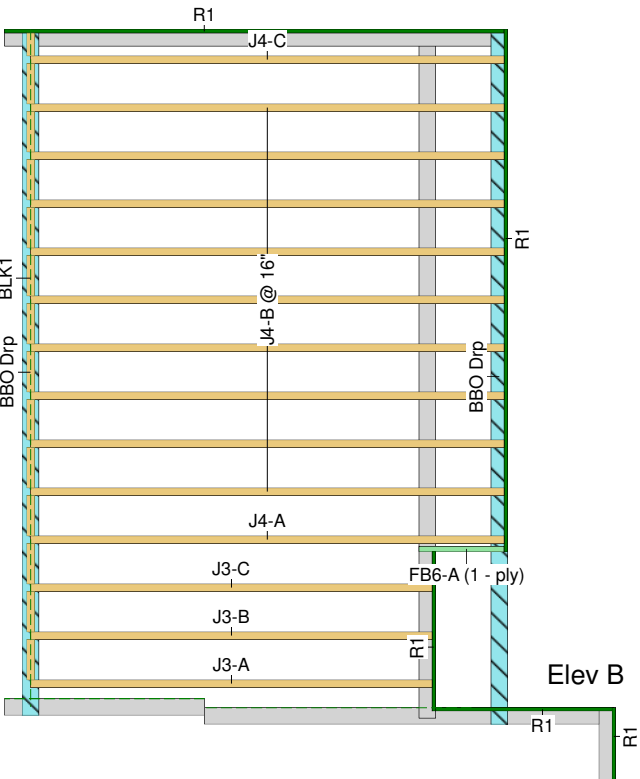
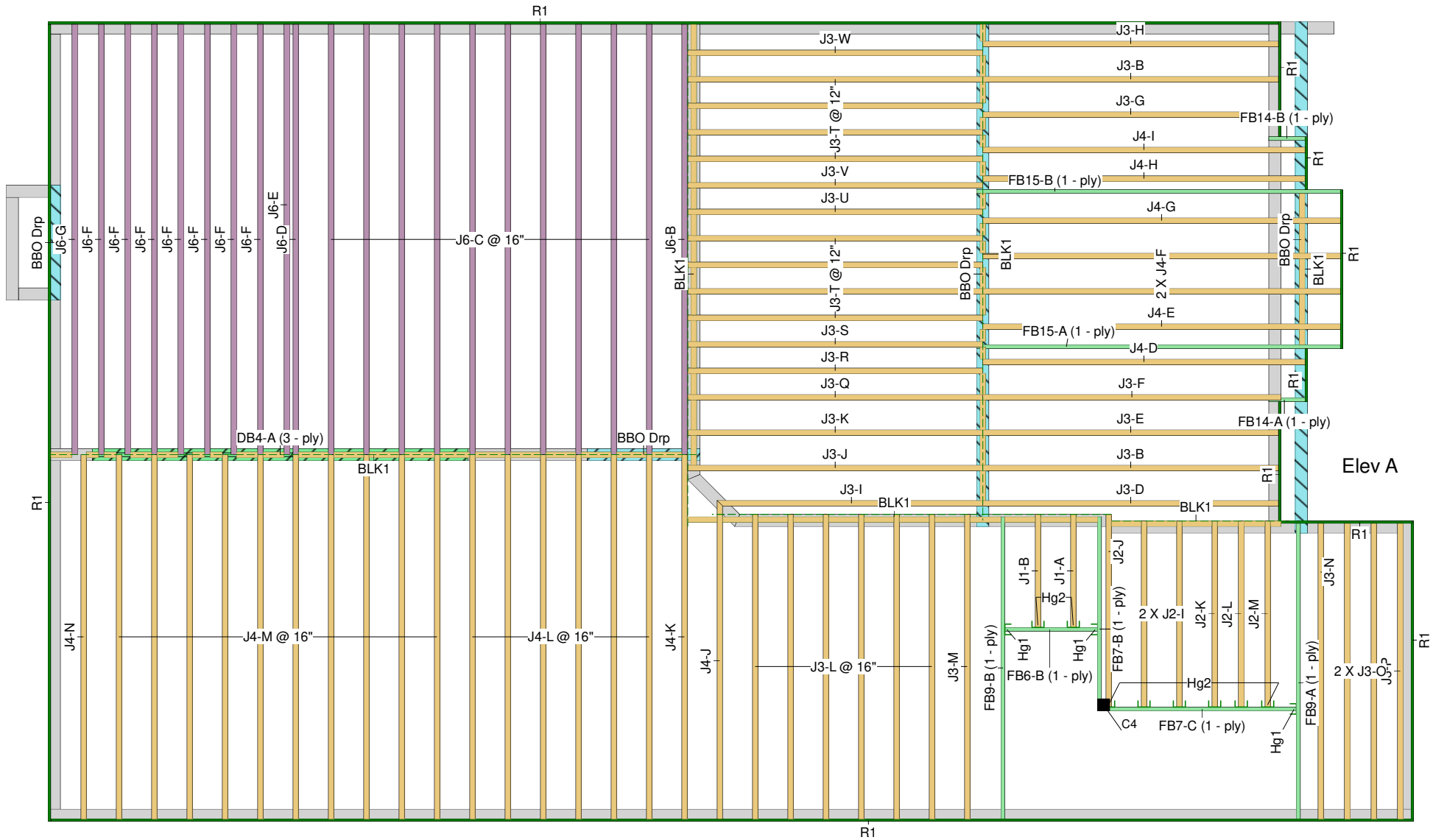
January 29, 2018

Revised

February 12, 2019

Description

Revision 2



Legend	
	Point Load Support
	Load from Above
	Wall
	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
	2.0E Microllam LVL 1.75 X 11.875 (Dropped)
	5.5 X 9.5 (Dropped)

1. The building design professional is responsible for the overall structural stability of the structure.
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9. 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.
10. All lengths and quantities must be verified prior to installation.

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

Second Floor Elev A & B

Design Method LSD
Building Code NBCC 2015 / OBC 2012

Floor

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

Joist							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
J4	NI-20	2.5	9.5			37	14-0-0
J3	NI-20	2.5	9.5			38	12-0-0
J2	NI-20	2.5	9.5			6	8-0-0
J1	NI-20	2.5	9.5			2	6-0-0
J6	NI-40x	2.5	9.5			21	18-0-0
Blocking							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
BLK1	NI-20	2.5	9.5	LinFt		Varies	83-0-0
LVL/LSL							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
FB15	2.0E Microllam LVL	1.75	9.5			2	14-0-0
FB9	2.0E Microllam LVL	1.75	9.5			2	12-0-0
FB7	2.0E Microllam LVL	1.75	9.5			2	8-0-0
FB6	2.0E Microllam LVL	1.75	9.5			2	4-0-0
FB14	2.0E Microllam LVL	1.75	9.5			2	2-0-0
DB4	2.0E Microllam LVL	1.75	11.875	1	3	3	16-0-0
Rim Board							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
R1	Common Rim Board 1.125 X 9.5	1.125	9.5			17	12
Hanger							
				Beam/Girder		Supported Member	
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