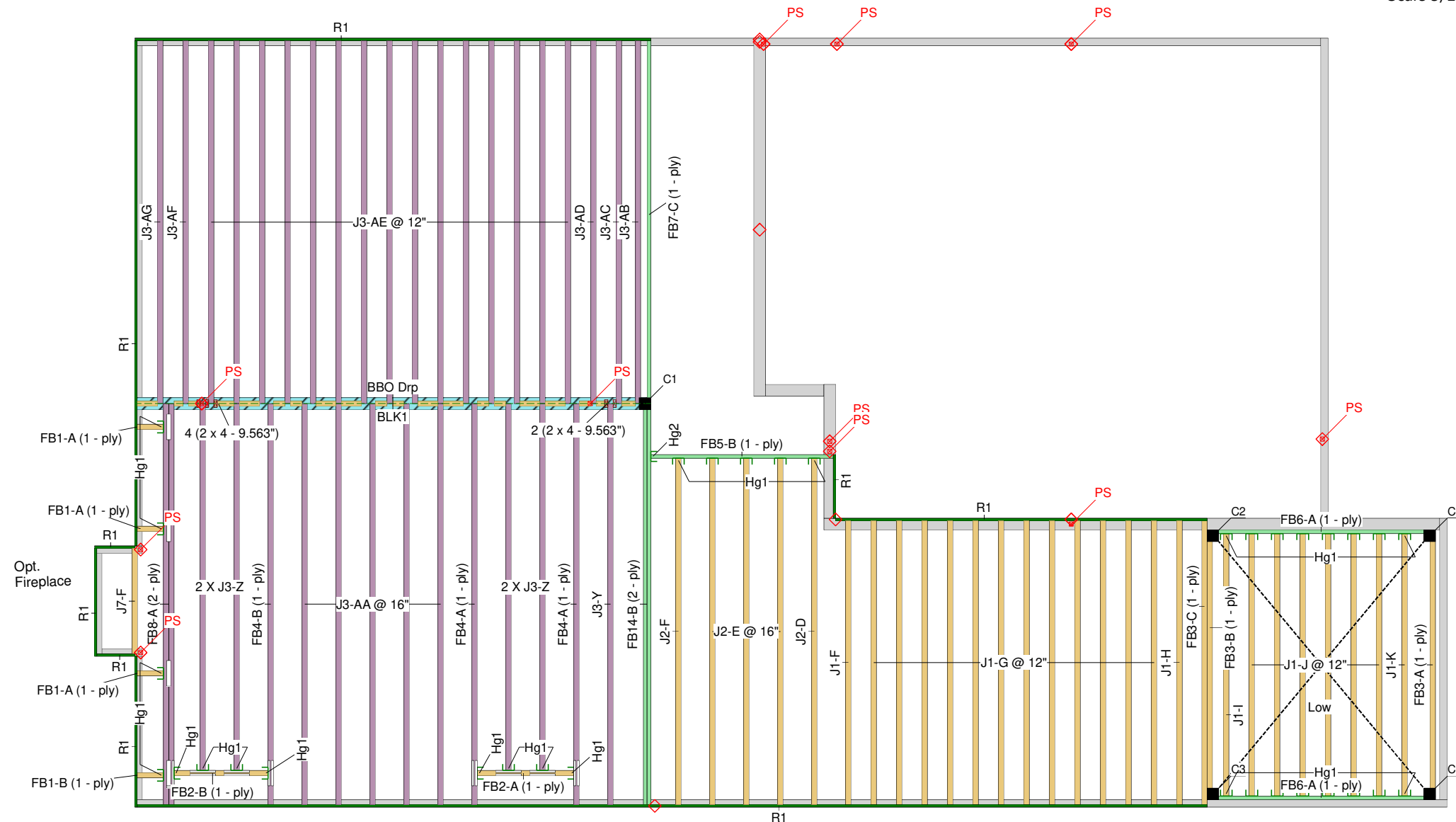


Argo Lumber Inc.
10275 Keele Street
Maple ON L6A 1S7
Tel: 905.832.2251

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

Project
Kings
Layout Name
3703
Builder
Esquire Homes
Shipping
Kings Crescent
Ajax, Ontario
Design Method
LSD
Created
January 29, 2018
Revised
February 12, 2019
Description
Revision 3



Label	Description	Width	Depth	Qty	Plies	Pcs	Length
Joist							
FB3	NI-20	2.5	9.5			3	12-0-0
FB2	NI-20	2.5	9.5			2	4-0-0
FB1	NI-20	2.5	9.5			4	2-0-0
J2	NI-20	2.5	9.5			5	14-0-0
J1	NI-20	2.5	9.5			22	12-0-0
J7	NI-20	2.5	9.5			1	6-0-0
FB4	NI-40x	2.5	9.5			3	16-0-0
FB8	NI-40x	2.5	9.5	1	2	2	16-0-0
J3	NI-40x	2.5	9.5			30	16-0-0
Blocking							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
BLK1	NI-20	2.5	9.5	LinFt		Varies	13-0-0
LVL/LSL							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
FB14	2.0E Microllam LVL	1.75	9.5	1	2	2	16-0-0
FB7	2.0E Microllam LVL	1.75	9.5			1	16-0-0
FB6	2.0E Microllam LVL	1.75	9.5			2	10-0-0
FB5	2.0E Microllam LVL	1.75	9.5			1	8-0-0
Rim Board							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
R1	Common Rim Board 1.125 X 9.5	1.125	9.5			10	12
Hanger							
Label	Pcs	Description	Skew	Slope	fasteners	Supported Member fasteners	
Hg1	33	LT259			4 10dx1 1/2	2 10dx1 1/2	
Hg2	1	HUS1.81/10			30 16d	10 16d	

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
	5.5 X 9.5 (Dropped)

- The building design professional is responsible for the overall structural stability of the structure.
- Minimum required bearings for joists is 1.75" x 3.5" for intermediate bearings
- 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 structures.
- 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.

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

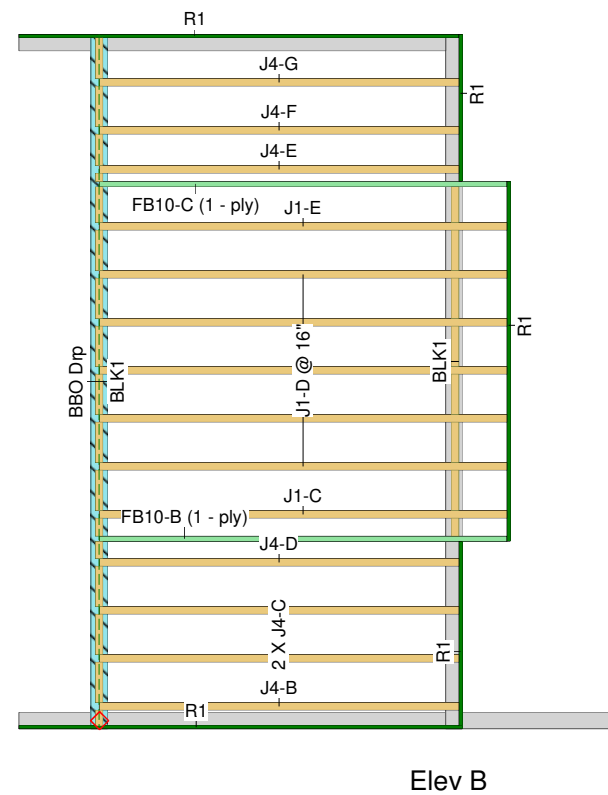
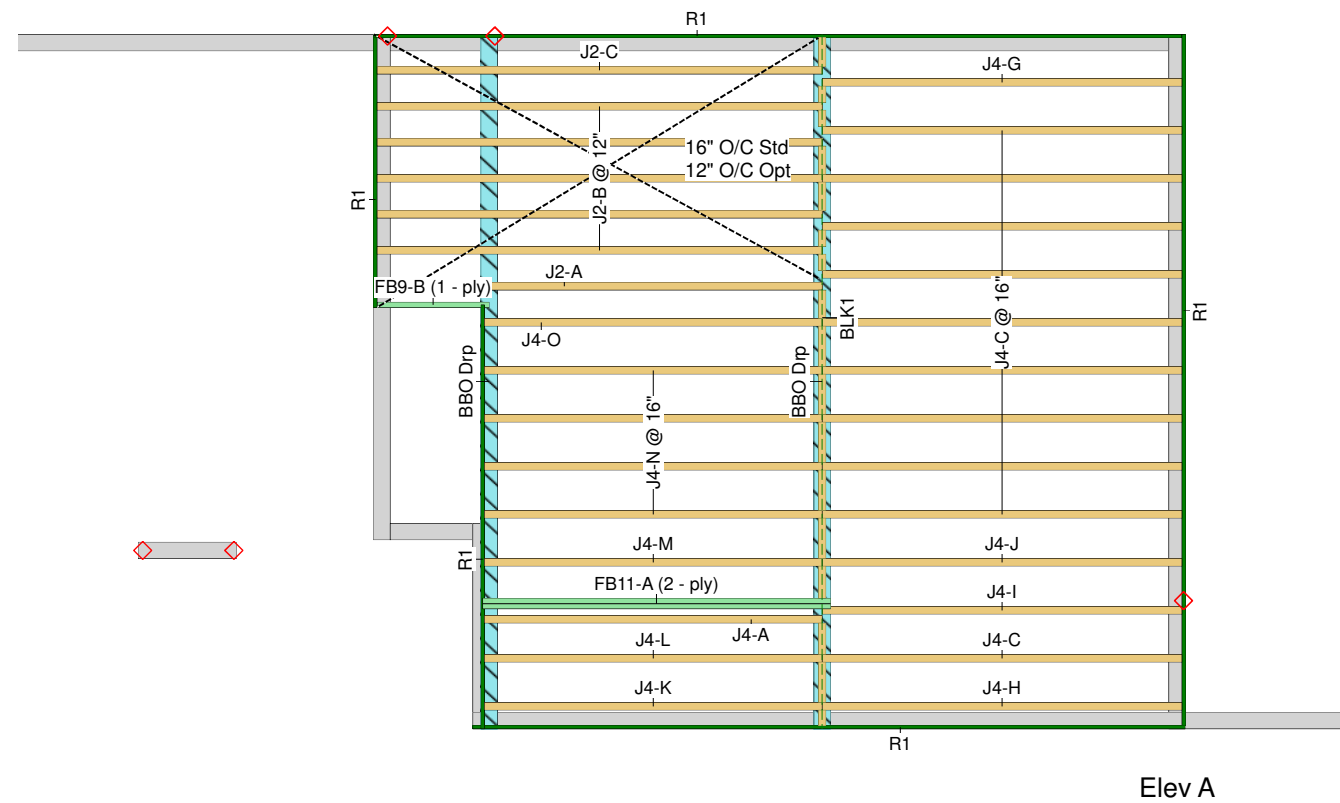
See attached sealed span charts for all uniformly loaded beams.
"ALL JOISTS UNDER TILED APPLICATIONS SHALL CONFORM TO OBC 9.30.06"

High Ground Floor Elev A & B

Design Method LSD
Building Code NBC 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

Project
Kings
Layout Name
3703
Builder
Esquire Homes
Shipping
Kings Crescent
Ajax, Ontario
Design Method
LSD
Created
January 29, 2018
Revised
February 12, 2019
Description
Revision 3



- The building design professional is responsible for the overall structural stability of the structure.
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- 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.
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- 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.

Legend

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

High Ground Floor Elev A & B							
Joist							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
J2	NI-20	2.5	9.5			7	14-0-0
J1	NI-20	2.5	9.5			7	12-0-0
J4	NI-20	2.5	9.5			30	10-0-0
Blocking							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
BLK1	NI-20	2.5	9.5	LinFt		Varies	39-0-0
LVL/LSL							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
FB10	2.0E Microllam LVL	1.75	9.5			2	12-0-0
FB11	2.0E Microllam LVL	1.75	9.5	1	2	2	10-0-0
FB9	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			11	12

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

Second Floor Elev A & B

Scale 3/16 inch : 1 ft.



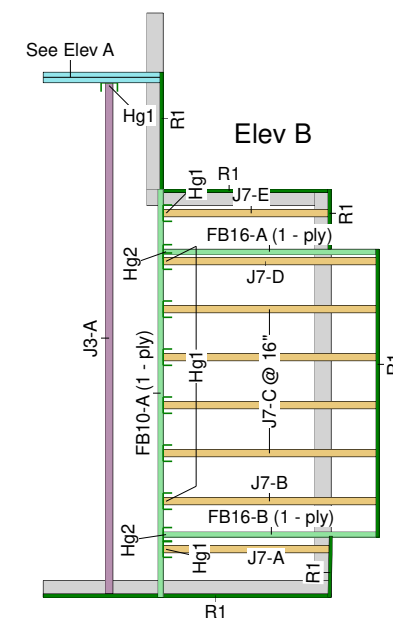
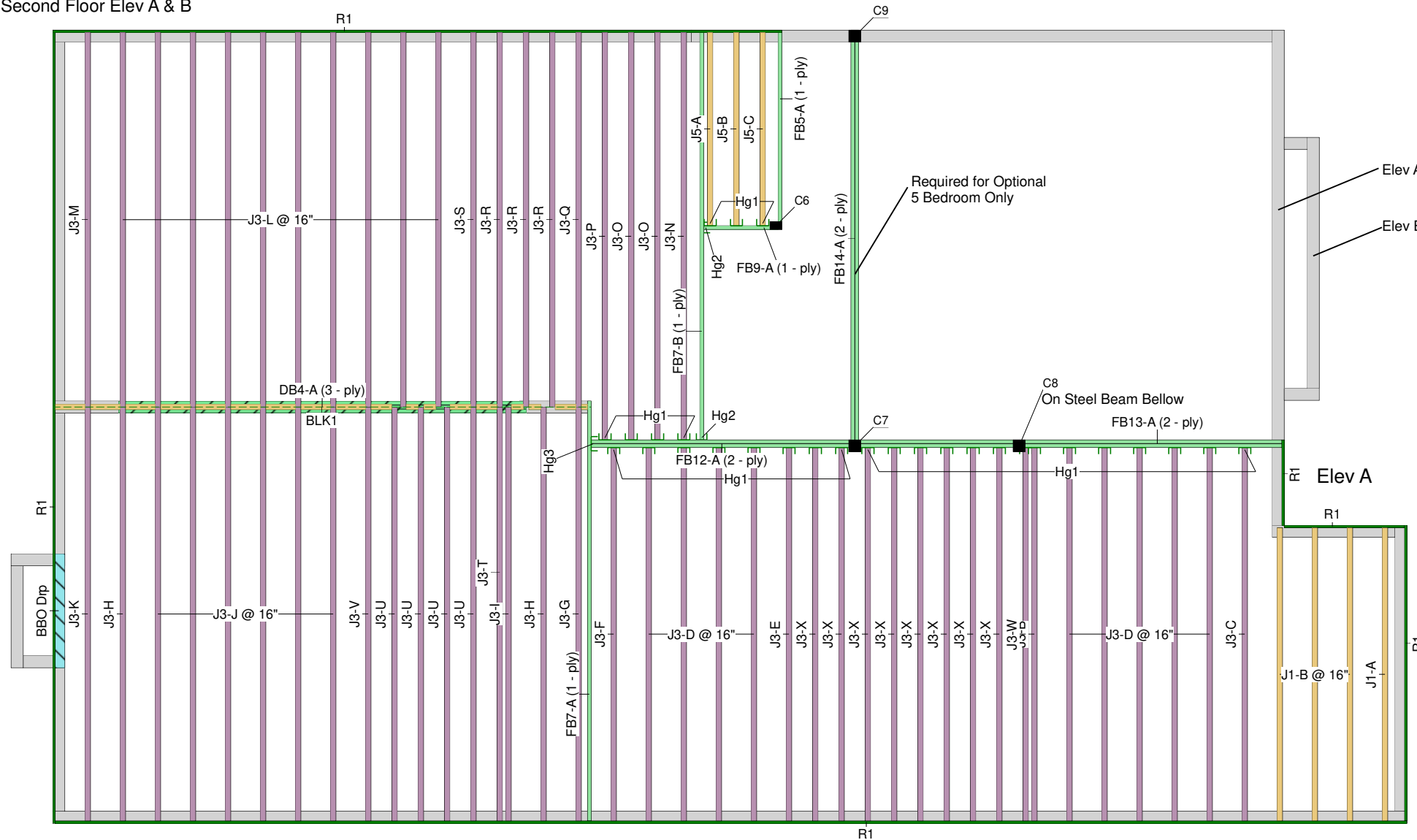
Argo Lumber Inc.
10275 Keele Street
Maple ON L6A 1S7
Tel: 905.832.2251

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"

Project	
Kings	
Layout Name	
3703	
Builder	
Esquire Homes	
Shipping	
Kings Crescent	
Ajax, Ontario	
Design Method	
LSD	
Created	
January 29, 2018	
Revised	
February 12, 2019	
Description	
Revision 3	



Legend

- PS 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)
- 1.75 X 9.5
- 5.5 X 9.5 (Dropped)

- The building design professional is responsible for the overall structural stability of the structure.
- Minimum required bearings for joists is 1.75" x 3.5" for intermediate bearings
- 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.
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- 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.

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

Second Floor Elev A & B

Joist							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
J1	NI-20	2.5	9.5			4	12-0-0
J5	NI-20	2.5	9.5			3	8-0-0
J7	NI-20	2.5	9.5			8	6-0-0
J3	NI-40x	2.5	9.5			60	16-0-0

Blocking							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
BLK1	NI-20	2.5	9.5	LinFt		Varies	16-0-0

LVL/LSL							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
FB13	2.0E Microllam LVL	1.75	9.5	1	2	2	18-0-0
FB7	2.0E Microllam LVL	1.75	9.5			2	16-0-0
FB14	2.0E Microllam LVL	1.75	9.5	1	2	2	16-0-0
FB12	2.0E Microllam LVL	1.75	9.5	1	2	2	12-0-0
FB10	2.0E Microllam LVL	1.75	9.5			1	12-0-0
FB5	2.0E Microllam LVL	1.75	9.5			1	8-0-0
FB16	2.0E Microllam LVL	1.75	9.5			2	6-0-0
FB9	2.0E Microllam LVL	1.75	9.5			1	4-0-0
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			13	12

Hanger						
Label	Pcs	Description	Skew	Slope	Beam/Girder fasteners	Supported Member fasteners
Hg1	38	LT259			4 10dx1 1/2	2 10dx1 1/2
Hg2	4	HUS1.81/10			30 10dx1 1/2	10 16d
Hg3	1	HHUS410			30 10dx1 1/2	10 16d