

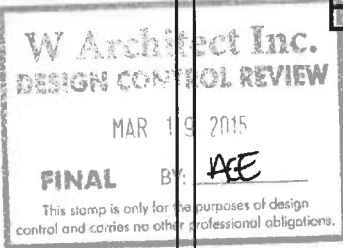


Drawing List:

- A0 TITLE SHEET
- A1 FOUNDATION PLAN ELEV. 'A' FOR STD & ALT. OPT. LOWER LEVEL
- A2 PARTIAL FOUNDATION PLAN INTERIOR END ELEVATION 'A'
- A3 PARTIAL FOUNDATION PLAN SIDE UPGRADE ELEVATION 'A'
- A4 FOUNDATION PLAN ELEV. 'A' FOR OPT. LOWER LEVEL
- A5 LOWER LEVEL ELEV. 'A'
- A6 PARTIAL LOWER LEVEL INTERIOR END ELEVATION 'A'
- A7 PARTIAL LOWER LEVEL SIDE UPGRADE ELEVATION 'A'
- A8 OPT. LOWER LEVEL ELEV. 'A' (TANDEM)
- A9 PARTIAL OPT. LOWER LEVEL INTERIOR END ELEVATION 'A'
- A10 PARTIAL OPT. LOWER LEVEL SIDE UPGRADE ELEVATION 'A'
- A11 ALT. OPT. LOWER LEVEL ELEV. 'A'
- A12 PARTIAL ALT. OPT. LOWER LEVEL INTERIOR END ELEVATION 'A'
- A13 PARTIAL ALT. OPT. LOWER LEVEL SIDE UPGRADE ELEVATION 'A'
- A14 MAIN FLOOR ELEVATION 'A'
- A15 PARTIAL MAIN FLOOR INTERIOR END ELEVATION 'A'
- A16 PARTIAL MAIN FLOOR SIDE UPGRADE ELEVATION 'A'
- A17 UPPER FLOOR ELEVATION 'A'
- A18 PARTIAL UPPER FLOOR INTERIOR END ELEVATION 'A'
- A19 PARTIAL UPPER FLOOR SIDE UPGRADE ELEVATION 'A'
- A20 FOUNDATION PLAN CORNER UPGRADE ELEVATION 'A'
- A21 PARTIAL OPT. LOWER LEVEL CORNER UPGRADE ELEVATION 'A'
- A22 PARTIAL LOWER LEVEL CORNER UPGRADE ELEVATION 'A'
- A23 PARTIAL ALT. OPT. LOWER LEVEL CORNER UPGRADE ELEVATION 'A'
- A24 PARTIAL MAIN FLOOR CORNER UPGRADE ELEVATION 'A'
- A25 PARTIAL UPPER FLOOR CORNER UPGRADE ELEVATION 'A'
- A26 PARTIAL MAIN FLOOR INT. END, SIDE UPGRADE & CORNER ELEVATION 'A' BLOCKS R, S, T & U
- A27 PARTIAL MAIN FLOOR ELEVATION 'A' BLOCKS R, S, T & U
- A28 PARTIAL LOWER FLOOR ELEVATION 'A' BLOCKS R, S, T & U
- A29 PARTIAL LOWER FLOOR INT. END, SIDE UPGRADE & CORNER ELEVATION 'A' BLOCKS R, S, T & U
- A30 FRONT ELEVATION 'A'
- A31 REAR ELEVATION 'A'
- A32 REAR ELEVATION 'A' BLOCKS R, S, T & U
- A33 SIDE ELEVATION 'A' INTERIOR END
- A34 PARTIAL SIDE ELEVATION 'A' INTERIOR END BLOCKS R, S, T & U
- A35 FRONT ELEVATION 'A' SIDE UPGRADE
- A36 SIDE ELEVATION 'A' SIDE UPGRADE
- A37 REAR ELEVATION 'A' SIDE UPGRADE BLOCKS R, S, T & U
- A38 REAR ELEVATION 'A' SIDE UPGRADE
- A39 PARTIAL SIDE ELEVATION 'A' SIDE UPGRADE BLOCKS R, S, T & U
- A40 FRONT ELEVATION 'A' CORNER UPGRADE
- A41 SIDE ELEVATION 'A' CORNER UPGRADE
- A42 REAR ELEVATION 'A' CORNER UPGRADE
- A43 REAR ELEVATION 'A' CORNER UPGRADE BLOCKS R, S, T & U
- A44 PARTIAL SIDE ELEVATION 'A' CORNER UPGRADE BLOCKS R, S, T & U
- A45 PARTIAL FOUNDATION PLAN FLUSH UPGRADE ELEVATION 'A'
- A46 PARTIAL ALT. OPT. LOWER LEVEL FLUSH UPGRADE ELEVATION 'A'
- A47 PARTIAL LOWER LEVEL FLUSH UPGRADE ELEVATION 'A'
- A48 PARTIAL OPT. LOWER LEVEL FLUSH UPGRADE ELEVATION 'A'
- A49 PARTIAL MAIN FLOOR SIDE UPGRADE ELEVATION 'A'
- A50 PARTIAL UPPER FLOOR FLUSH UPGRADE ELEVATION 'A'
- A51 SIDE ELEVATION 'A' FLUSH UPGRADE
- A52 TYPICAL CROSS SECTION
- D1 CONSTRUCTION NOTES
- D2 CONSTRUCTION NOTES
- D3 CONSTRUCTION NOTES

Areas:

	INTERIOR		INTERIOR END / FLUSH UPGRADE		SIDE UPGRADE		CORNER UPGRADE	
	SF	SM	SF	SM	SF	SM	SF	SM
STD/ ALT OPT LOWER LEVEL	226.4	48.9	536.7	49.9	544.7	50.6	611.4	56.8
MAIN FLOOR	904.3	84.0	920.4	85.5	932.4	86.6	992.4	92.2
MAIN FLOOR OTB	(4.4)	(0.4)	(4.4)	(0.4)	(5.8)	(0.8)	(73.9)	(2.2)
UPPER FLOOR	904.3	84.0	920.4	85.5	932.4	86.6	999.1	89.1
TOTAL AREA (0)	2330.6	216.5	2373.1	220.6	2400.7	223.0	2639.0	235.9
OPT LOWER LEVEL	360.3	33.5	370.6	34.4	378.6	35.2	445.3	41.4
TOTAL AREA (1)	2164.5	201.1	2207.0	205.0	2234.6	205.6	2372.9	220.5
COVERAGE WITHOUT PORCH	904.3	84.0	920.4	85.5	932.4	86.6	992.4	92.2
COVERAGE WITH PORCH	929.8	86.4	947.8	88.1	959.8	89.2	1019.8	94.7



I, ERIC SCHNEIDER DECLARE THAT I HAVE REVIEWED AND TAKEN DESIGN RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF RN DESIGN LTD. UNDER DIVISION C PART-3 SUBSECTION-3.7.4 OF THE BUILDING CODE. I AM QUALIFIED AND THE FIRM IS REGISTERED IN THE APPROPRIATE CLASSES / CATEGORIES. QUALIFIED DESIGNER BCIN: 30840 FIRM BCIN: 26995 DATE: MAR-13-15

SIGNATURE: *E. Schneider*

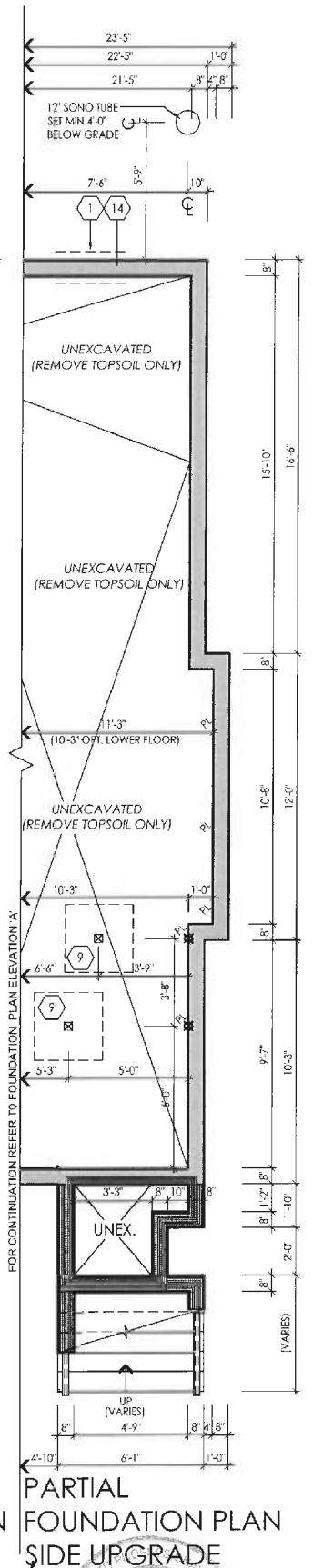
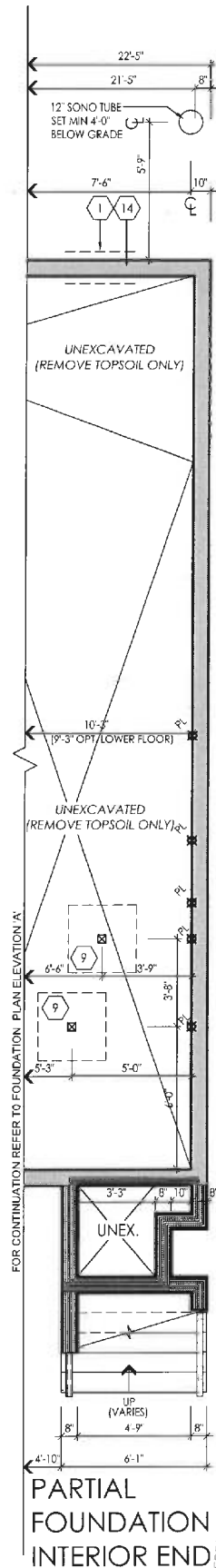
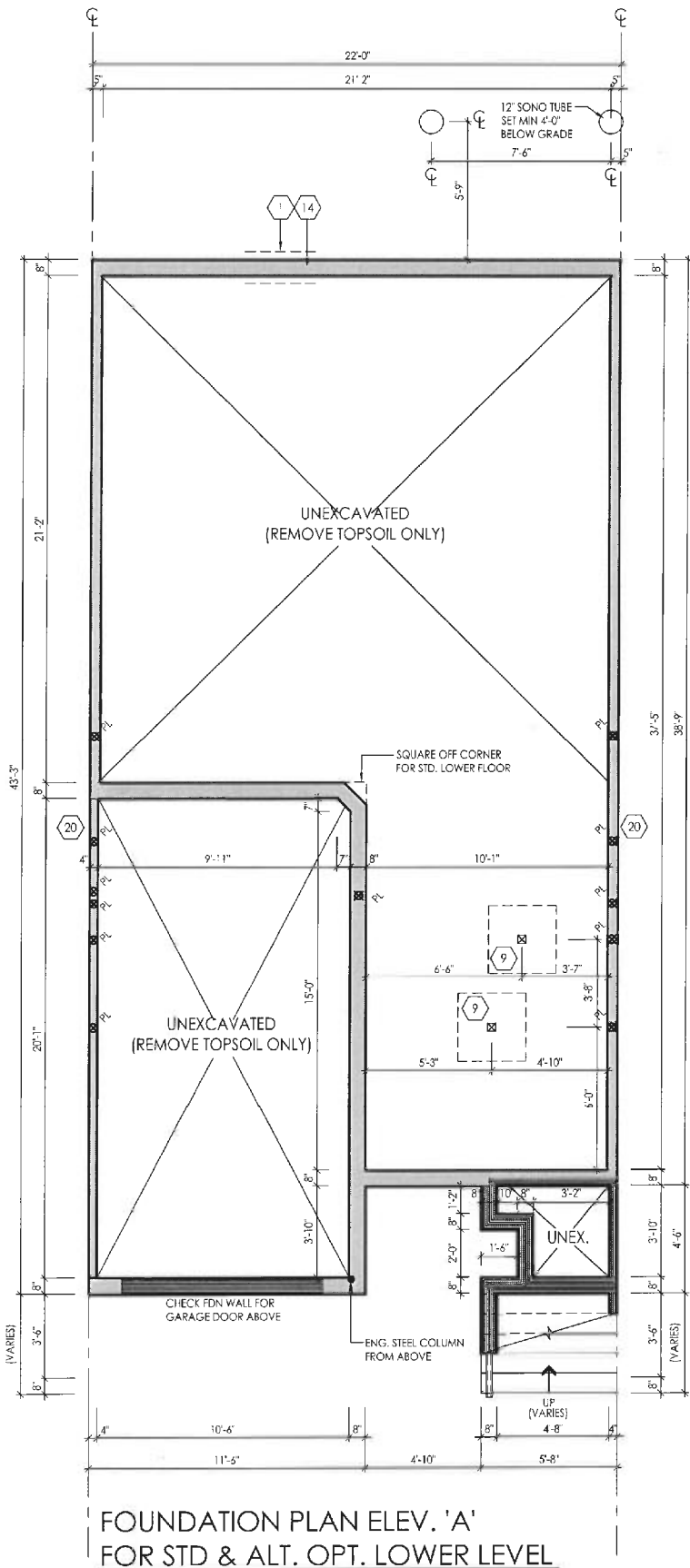
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project	BATHURST 9130					marketing name	Bedford						
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2	ISSUED FOR CLIENT REVIEW		3-Sep-14		kh	tpa	6						
3	ISSUED FINAL		13-Mar-15		et	gh	7						
4							8						

RN design
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model TH-22-2
scale 3/16" = 1'0"
project # 12073

page A0



I, ERIC SCHNEIDER DECLARE THAT I HAVE REVIEWED AND TAKEN DESIGN RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF **RN DESIGN LTD.** UNDER DIVISION C, PART 3 SUBSECTION 3.2.4 OF THE BUILDING CODE. I AM QUALIFIED AND THE FIRM IS REGISTERED IN THE APPROPRIATE CLASSES / CATEGORIES.
 QUALIFIED DESIGNER BCIN: 30840
 FIRM BCIN: 26995
 DATE: MAR-13-15

Eric Schneider

SIGNATURE:

client
Senator Homes
 project
BATHURST 9130

location
Vaughan
 marketing name
Bedford

#	revisions	date	dwn	chk	#	revisions	date	dwn	chk
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2	ISSUED FOR CLIENT REVIEW	3-Sep-14	th	spa	6				
3	ISSUED FINAL	13-MAR-15	sh	sh	7				
4					8				

RN design
 Imagine • Inspire • Create

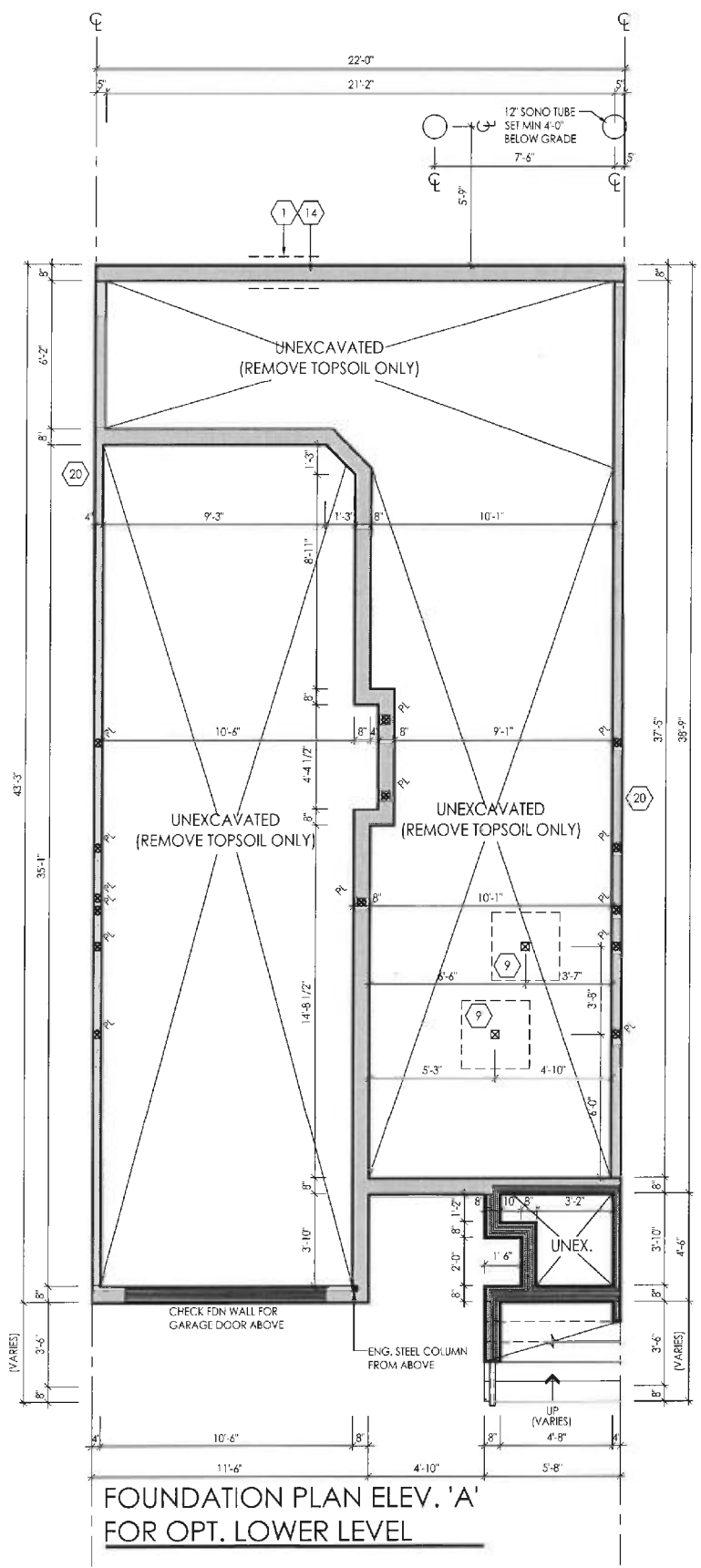


model
TH-22-2
 scale
3/16" = 1'0"

project #
12073

page

A1



FOUNDATION PLAN ELEV. 'A'
FOR OPT. LOWER LEVEL

I, ERIC SCHNEIDER DECLARE THAT I HAVE REVIEWED AND TAKEN DESIGN RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF **RN DESIGN LTD.** UNDER DIVISION C, PART 3 SUBSECTION 3.2.4 OF THE BUILDING CODE. I AM QUALIFIED AND THE FIRM IS REGISTERED IN THE APPROPRIATE CLASSES / CATEGORIES.
QUALIFIED DESIGNER BCIN: 30640
FIRM BCIN: 26995
DATE: MAR-13-15

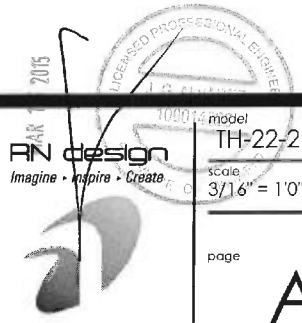
Eric Schneider

SIGNATURE:

client
Senator Homes
project
BATHURST 9130

location
Vaughan
marketing name
Bedford

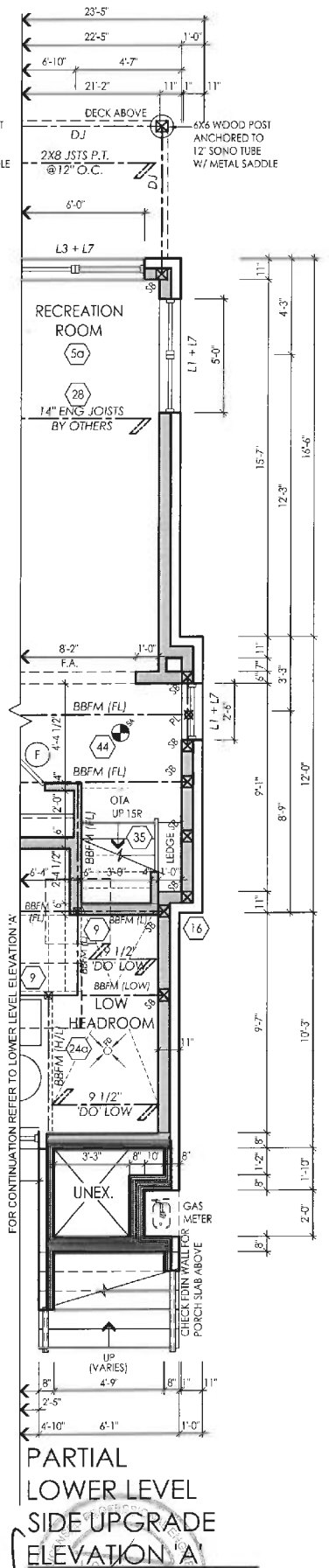
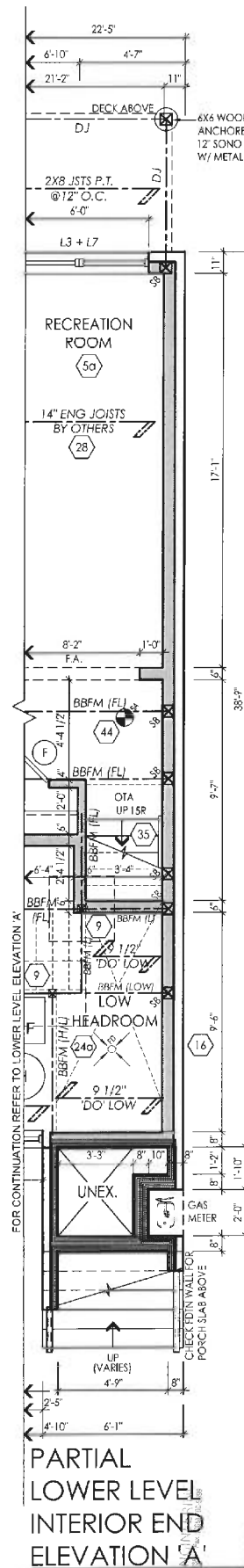
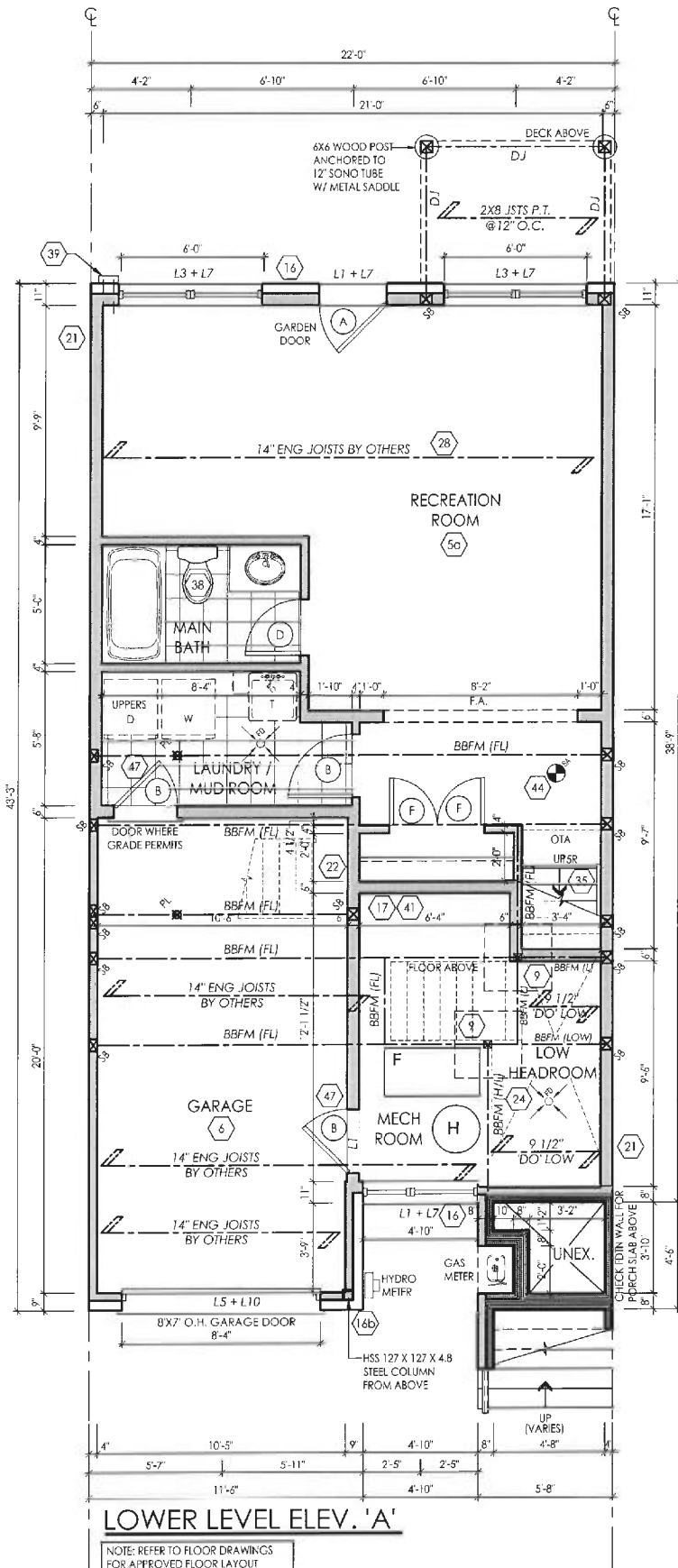
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3	ISSUED FINAL	13-Mar-15	sh	sh	7				
4					8				



model
TH-22-2
scale
3/16" = 1'0"
project #
12073

page

A2



I, ERIC SCHNEIDER, DECLARE THAT I HAVE REVIEWED AND TAKEN DESIGN RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF RN DESIGN LTD. UNDER DIVISION C-PART 3 SUBSECTION 3.2.4 OF THE BUILDING CODE. I AM QUALIFIED AND THE FIRM IS REGISTERED IN THE APPROPRIATE CLASSES / CATEGORIES.
 QUALIFIED DESIGNER BCIN: 30840
 FIRM BCIN: 26995
 DATE: MAR-13-15
 SIGNATURE: *E. Schneider*

client

Senator Homes

location

Vaughan

project

BATHURST 9130

marketing name

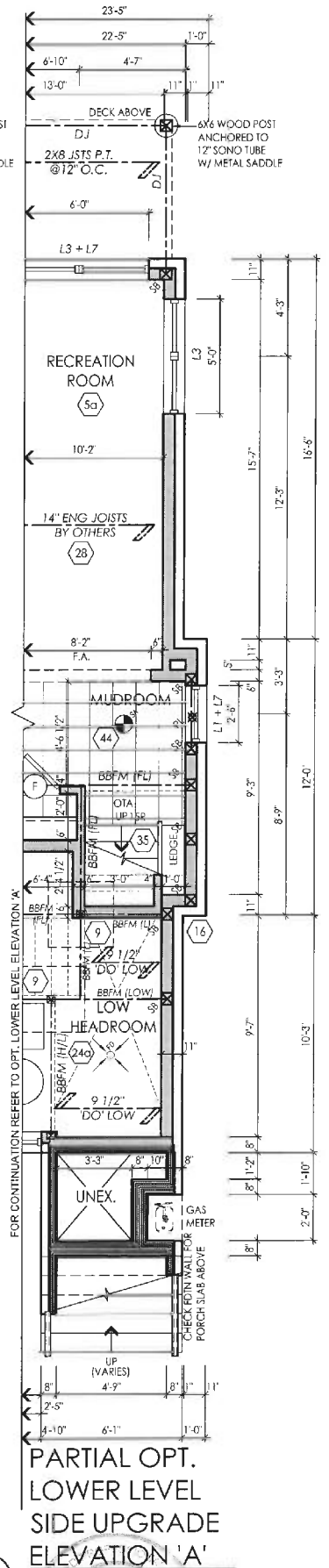
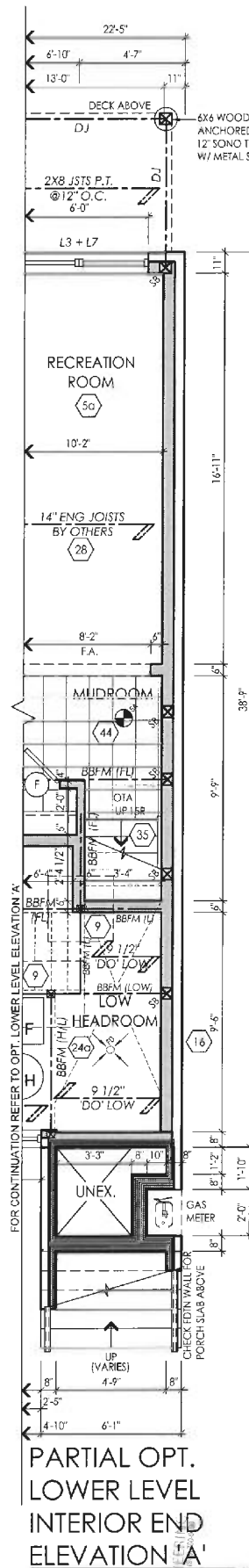
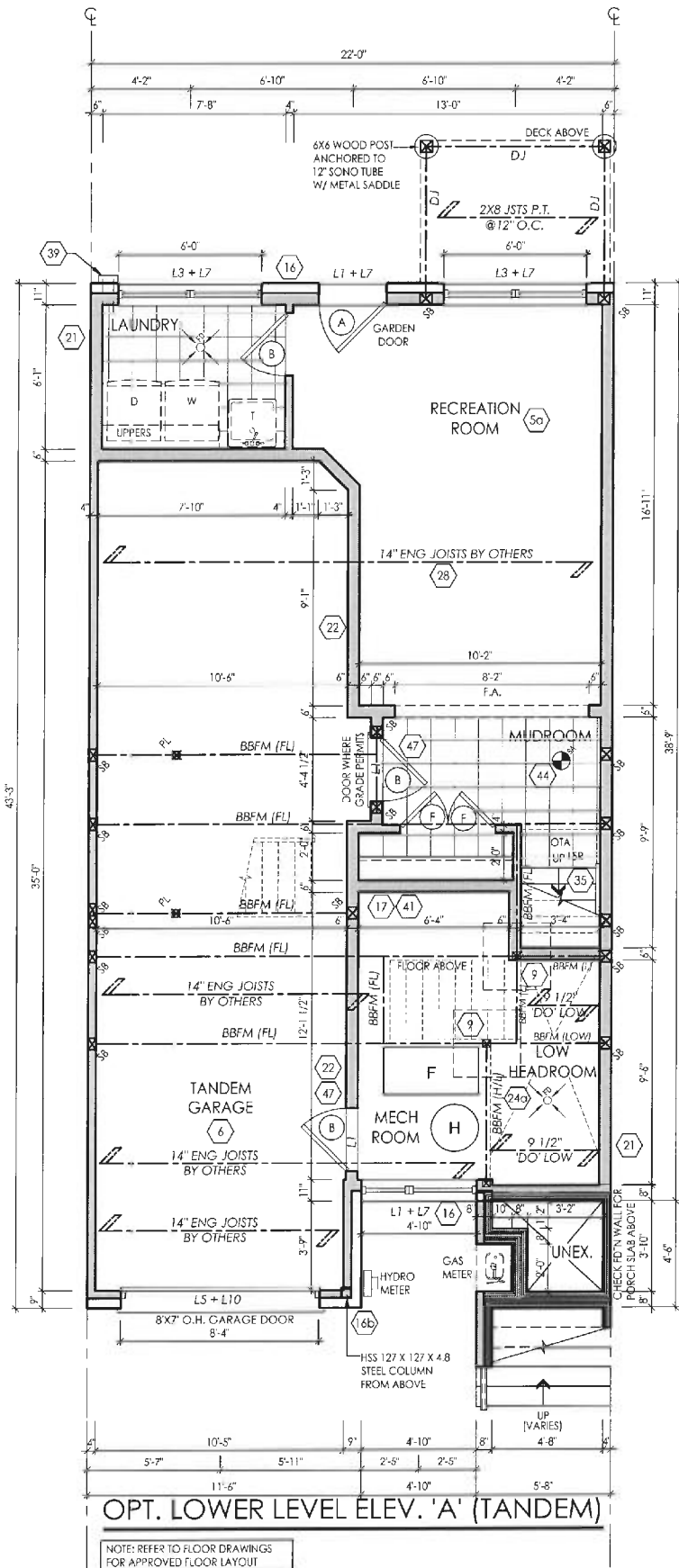
Bedford

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3	ISSUED FINAL	3-Mar-15	sh	th	7				
4					8				



model
TH-22-2
scale
3/16" = 1'0"
project #
12073

A3



I, ERIC SCHNEIDER DECLARE THAT I HAVE REVIEWED AND TAKEN DESIGN RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF RN DESIGN LTD. UNDER DIVISION C, PART 3, SUBSECTION 3.2.4 OF THE BUILDING CODE. I AM QUALIFIED AND THE FIRM IS REGISTERED IN THE APPROPRIATE CLASSES / CATEGORIES. QUALIFIED DESIGNER BCIN: 30840 26995 FIRM BCIN: DATE: MAR-13-15

SIGNATURE:

client
Senator Homes

project
BATHURST 9130

#	revisions	date	dwn	chk	#	revisions	date	dwn	chk
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4					8				

location
Vaughan

marketing name
Bedford

AN design
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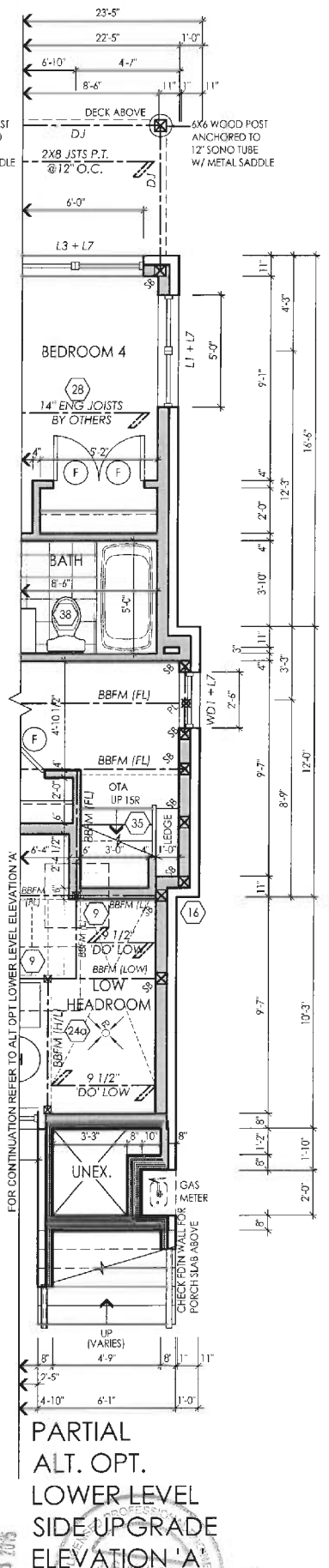
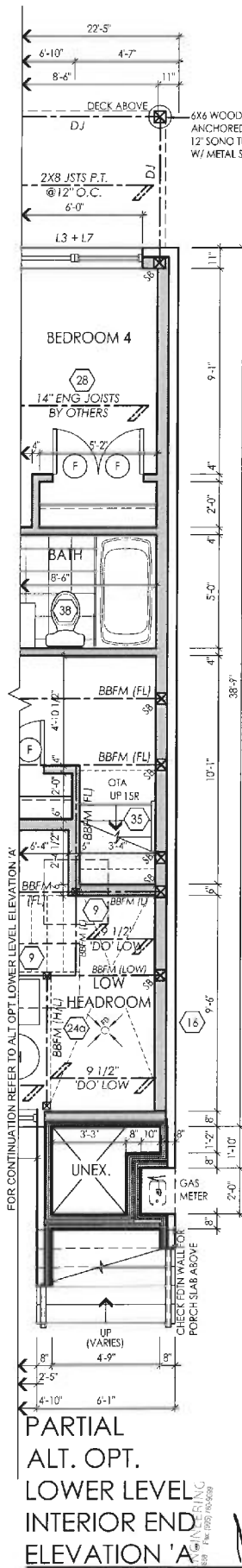
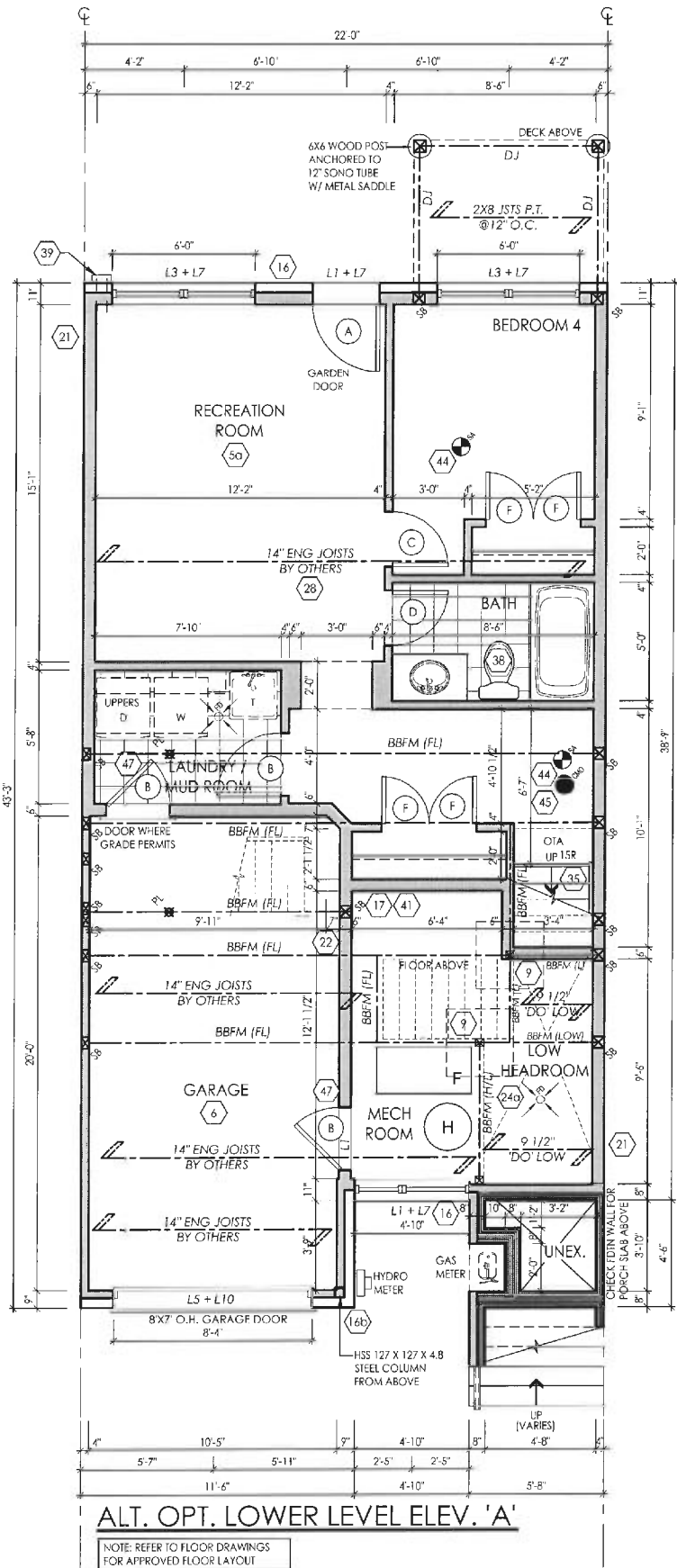
model
TH-22-2

scale
3/16" = 1'-0"

project #
12073

page

A4



I, ERIC SCHNEIDER DECLARE THAT I HAVE REVIEWED AND TAKEN DESIGN RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF **RN DESIGN LTD.** UNDER DIVISION C, PART 3 SUBSECTION 3.2.4 OF THE BUILDING CODE. I AM QUALIFIED AND THE FIRM IS REGISTERED IN THE APPROPRIATE CLASSES / CATEGORIES.
 QUALIFIED DESIGNER BCIN: 30840
 FIRM BCIN: 26995
 DATE: MAR-13-15

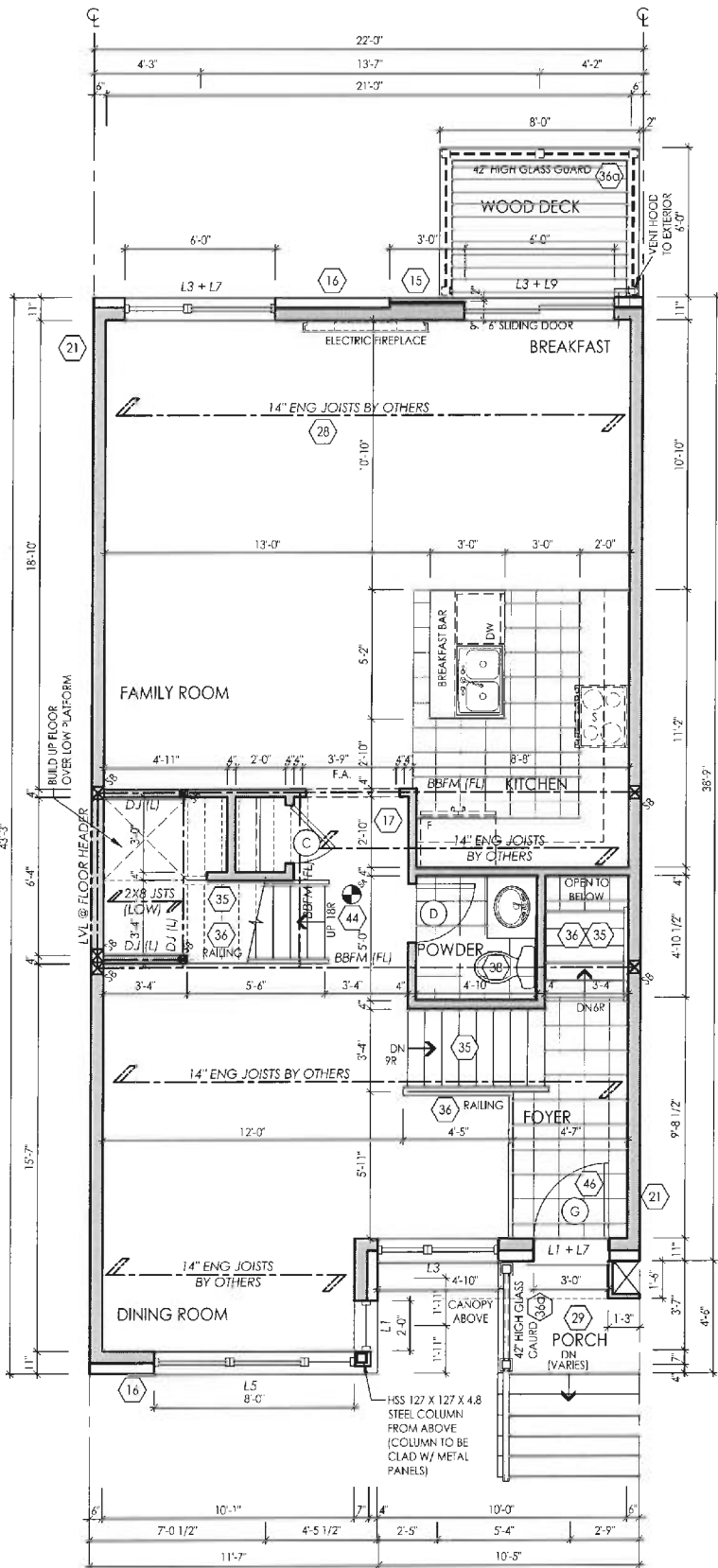
SIGNATURE: *Eric Schneider*

client Senator Homes					location Vaughan				
project BATHURST 9130					marketing name Bedford				
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3	ISSUED FINAL	13-Mar-15	sh	sh	7				
4					8				



model
TH-22-2
 scale
3/16" = 1'0"
 project #
12073

A5

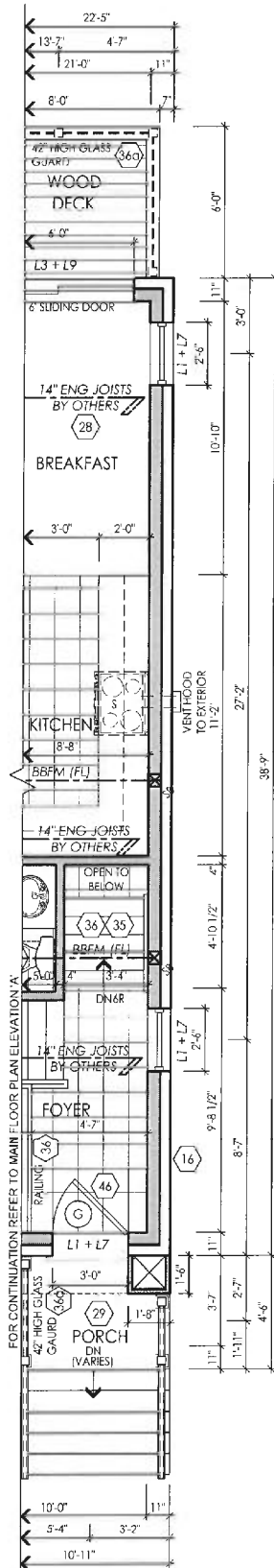


MAIN FLOOR ELEVATION 'A'

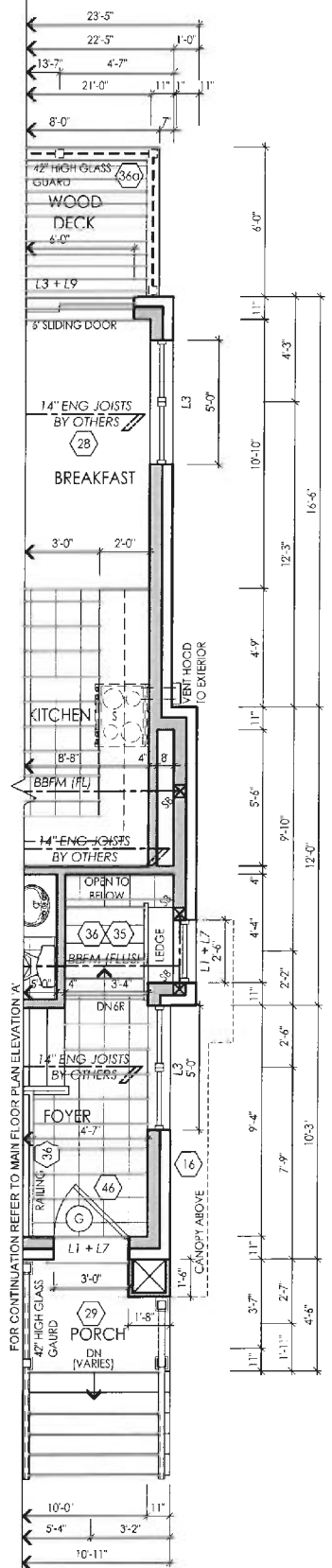
NOTE: ELECTRICAL, GAS AND VENT LOCATIONS ARE SCHEMATIC ONLY. TO BE COORDINATED WITH ELECTRICAL AND MECHANICAL DRAWINGS BY THE CONTRACTOR.

NOTE: REFER TO FLOOR DRAWINGS FOR APPROVED FLOOR LAYOUT

NOTE: CONC. FRONT PORCH POURED PRIOR TO BRICK



PARTIAL MAIN FLOOR INTERIOR END ELEVATION 'A'



PARTIAL MAIN FLOOR SIDE UPGRADE ELEVATION 'A'

I, ERIC SCHNEIDER DECLARE THAT I HAVE REVIEWED AND TAKEN DESIGN RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF **RN DESIGN LTD.** UNDER DIVISION C, PART-3 SUBSECTION 3.2.4 OF THE BUILDING CODE. I AM QUALIFIED AND THE FIRM IS REGISTERED IN THE APPROPRIATE CLASSES / CATEGORIES. QUALIFIED DESIGNER BCIN: 30840 FIRM BCIN: 26995 DATE: MAR-13-15

SIGNATURE:

E. Schneider

client
Senator Homes
project
BATHURST 9130

location
Vaughan
marketing name
Bedford

#	revisions	date	dwn	chk	#	revisions	date	dwn	chk
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4					8				

RN design
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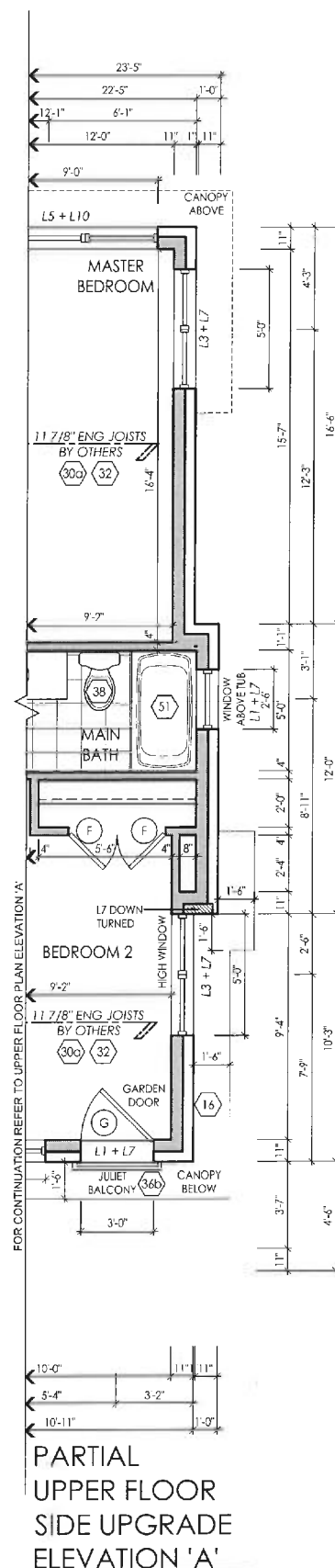
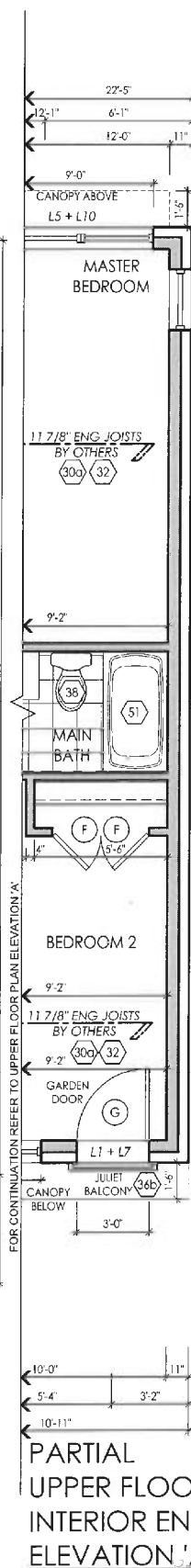
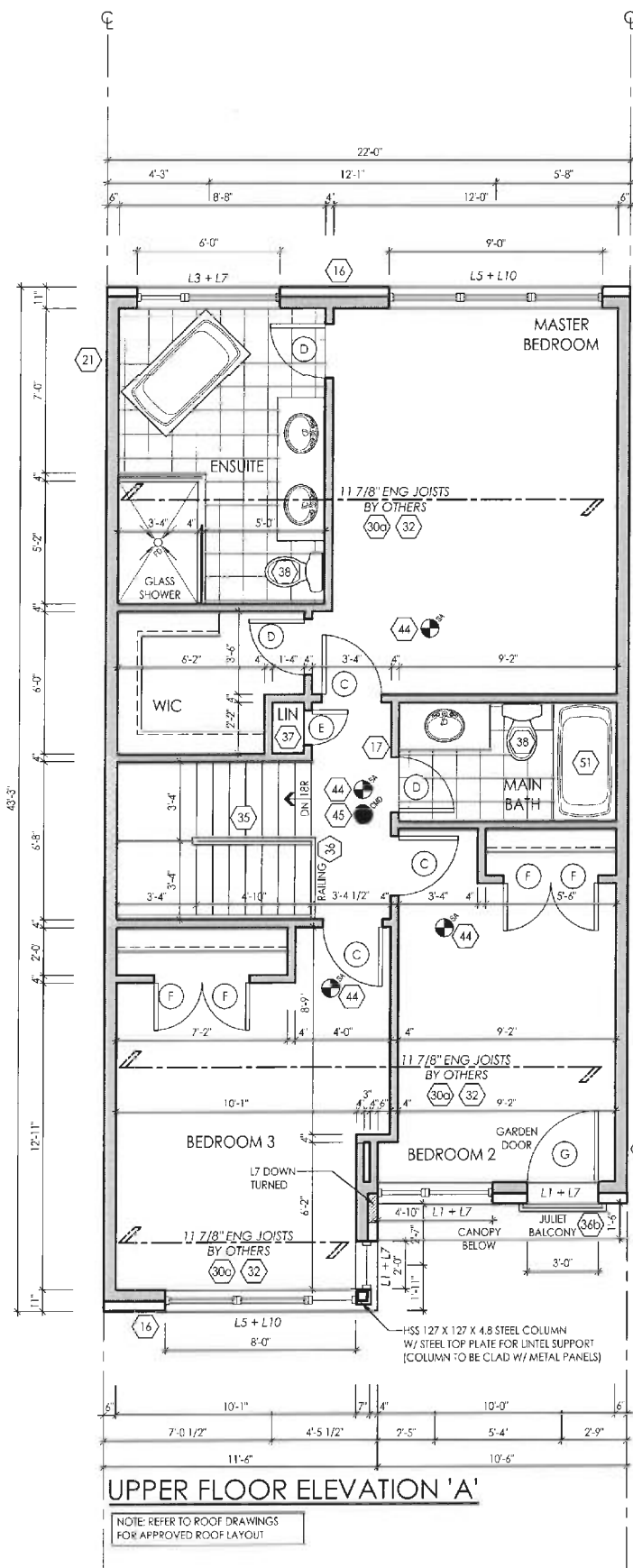
model
TH-22-2

scale
3/16" = 1'0"

project #
12073

page

A6



I, ERIC SCHNEIDER DECLARE THAT I HAVE REVIEWED AND TAKEN DESIGN RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF **RN DESIGN LTD.** UNDER DIVISION C, PART 3 SUBSECTION 3.2.4 OF THE BUILDING CODE. I AM QUALIFIED AND THE FIRM IS REGISTERED IN THE APPROPRIATE CLASSES / CATEGORIES. QUALIFIED DESIGNER BCIN: 30840 FIRM BCIN: 26995 DATE: MAR-13-15

SIGNATURE:

Eric Schneider

client
Senator Homes

project
BATHURST 9130

#	revisions	date	dwn	chk	#	revisions	date	dwn	chk
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location
Vaughan

marketing name
Bedford

RN design
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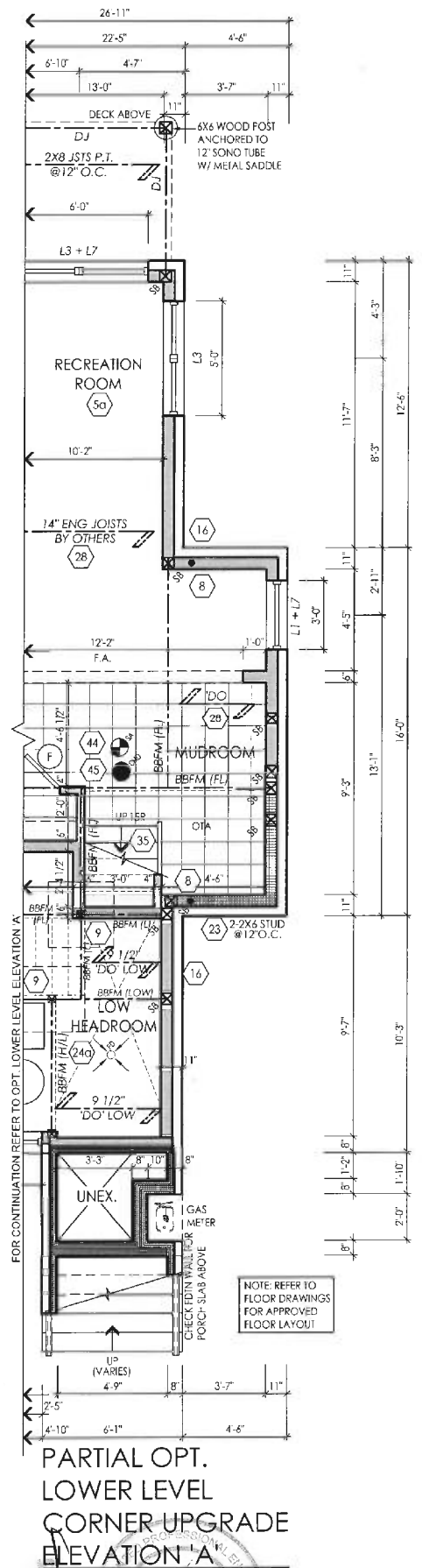
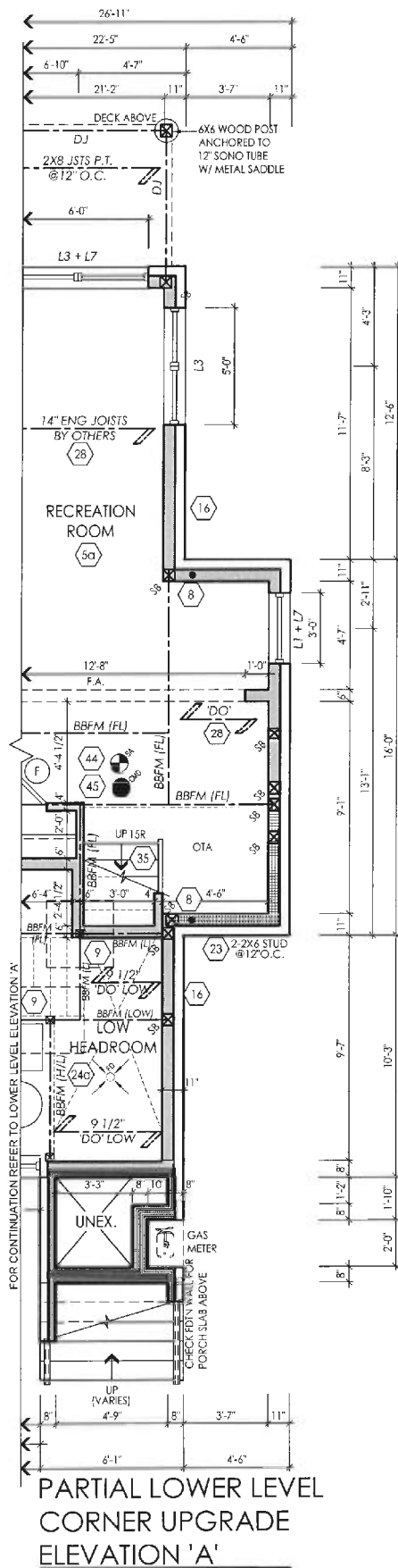
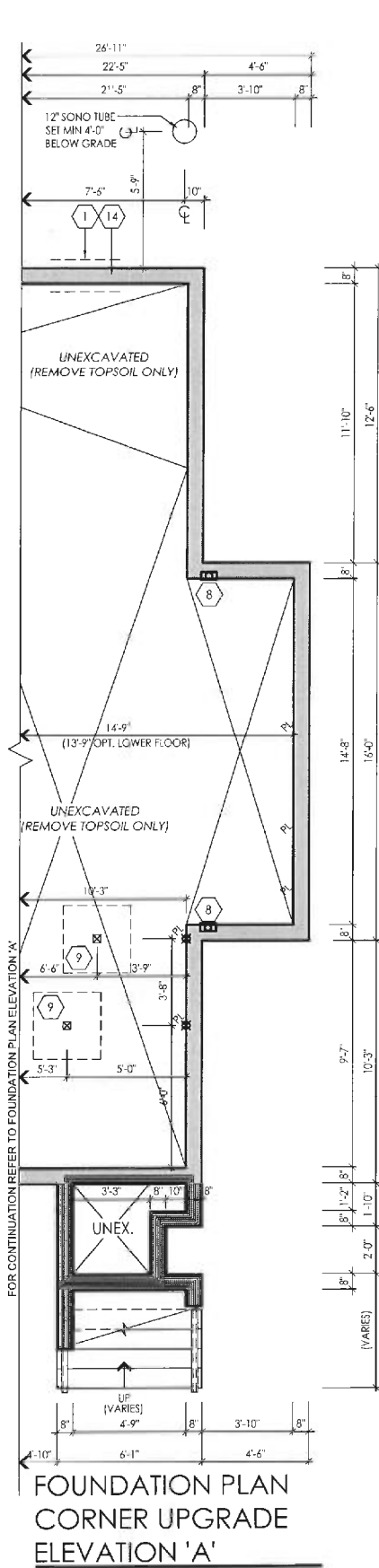
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TH-22-2

scale
3/16" = 1'0"

project #
12073

page

A7



I, ERIC SCHNEIDER DECLARE THAT I HAVE REVIEWED AND TAKEN DESIGN RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF **AN DESIGN LTD.** UNDER DIVISION C PART 3 SUBSECTION 3.2.4 OF THE BUILDING CODE. I AM QUALIFIED AND THE FIRM IS REGISTERED IN THE APPROPRIATE CLASSES / CATEGORIES. QUALIFIED DESIGNER BCIN: 30840 FIRM BCIN: 26995 DATE: MAR-13-15

SIGNATURE:

client
Senator Homes

project
BATHURST 9130

location
Vaughan

marketing name
Bedford

#	revisions	date	dwn	chk	#	revisions	date	dwn	chk
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2	ISSUED FOR CLIENT REVIEW	3-Sep-14	th	rpa	6				
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AN design
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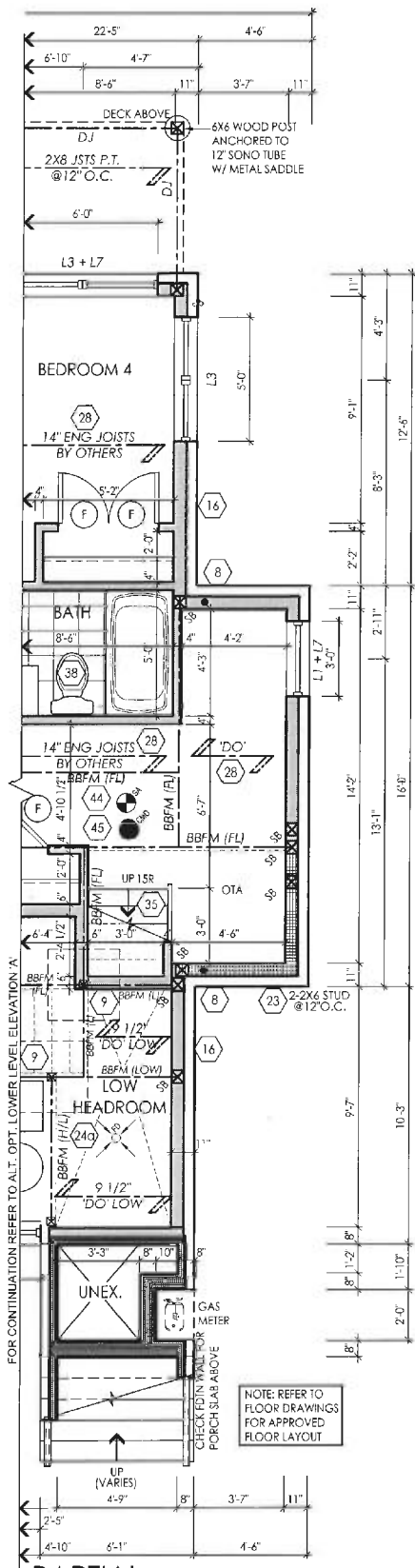
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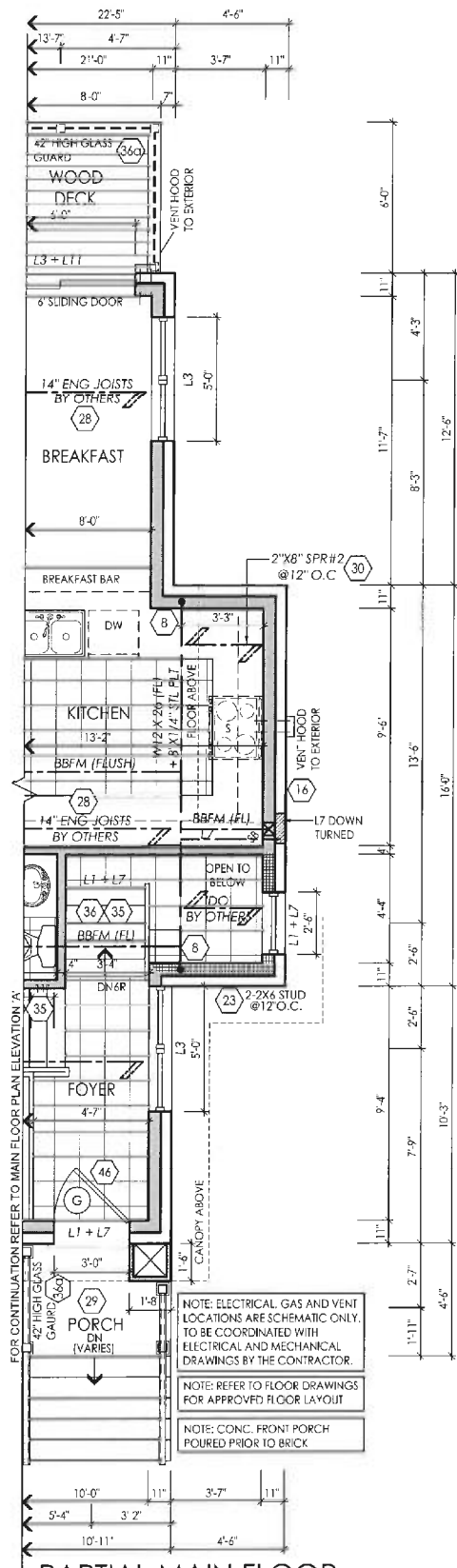
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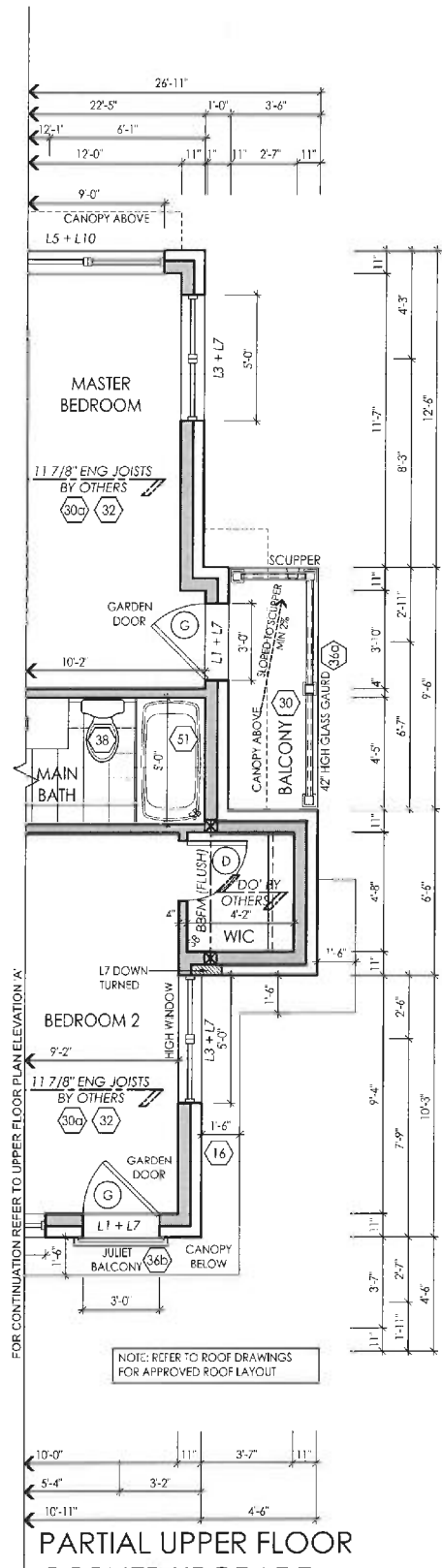
A8



PARTIAL
ALT. OPT.
LOWER LEVEL
CORNER UPGRADE
ELEVATION 'A'



PARTIAL MAIN FLOOR
CORNER UPGRADE
ELEVATION 'A'



PARTIAL UPPER FLOOR
CORNER UPGRADE
ELEVATION 'A'

I, ERIC SCHNEIDER DECLARE THAT I HAVE REVIEWED AND TAKEN DESIGN RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF **BN DESIGN LTD.** UNDER DIVISION C PART-3 SUBSECTION 3.2.4 OF THE BUILDING CODE. I AM QUALIFIED AND THE FIRM IS REGISTERED IN THE APPROPRIATE CLASSES / CATEGORIES.
QUALIFIED DESIGNER BCIN: 30640
FIRM BCIN: 26995
DATE: MAR-13-15

SIGNATURE:

client
Senator Homes
project
BATHURST 9130

location
Vaughan
marketing name
Bedford

#	revisions	date	dwn	chk	#	revisions	date	dwn	chk
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BN design
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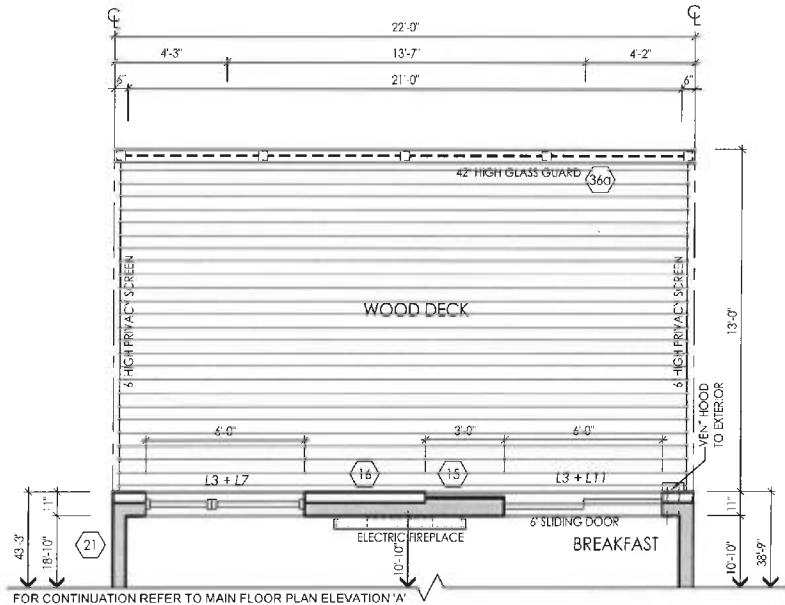
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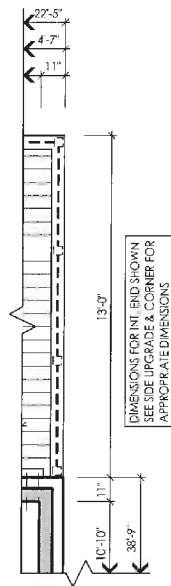
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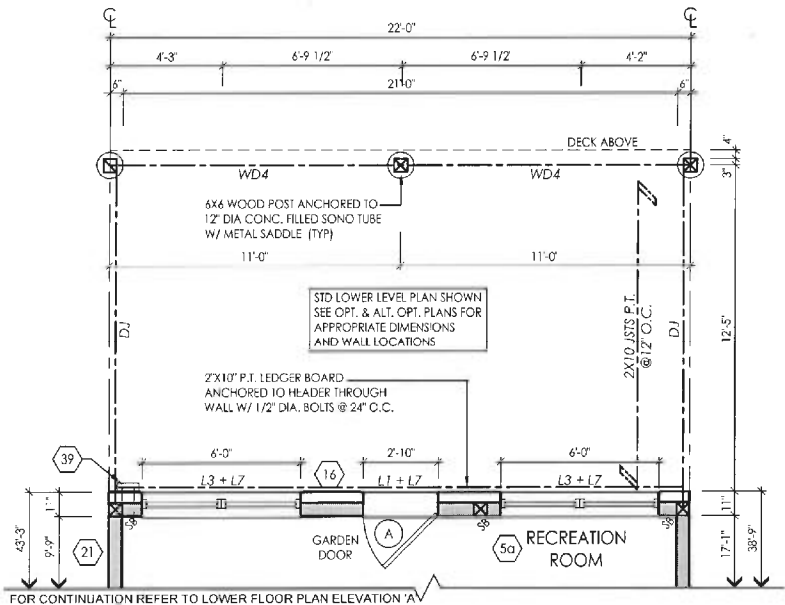
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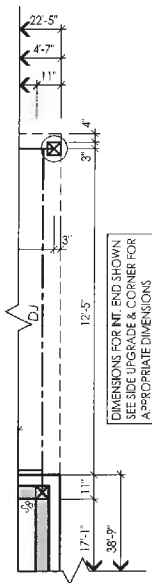
PARTIAL MAIN FLOOR
ELEVATION 'A'
BLOCKS R, S,T & U



PARTIAL MAIN FLOOR
INT. END, SIDE UPGRADE & CORNER
ELEVATION 'A'
BLOCKS R, S, T & U



PARTIAL LOWER FLOOR
ELEVATION 'A'
BLOCKS R, S,T & U



PARTIAL LOWER FLOOR
INT. END, SIDE UPGRADE & CORNER
ELEVATION 'A'
BLOCKS R, S, T & U

I, ERIC SCHNEIDER DECLARE THAT I HAVE REVIEWED AND TAKEN DESIGN RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF **RN DESIGN LTD.** UNDER DIVISION C, PART 3 SUBSECTION 3.2.4 OF THE BUILDING CODE. I AM QUALIFIED AND THE FIRM IS REGISTERED IN THE APPROPRIATE CLASSES / CATEGORIES.
QUALIFIED DESIGNER BCIN: 30840
FIRM BCIN: 26995
DATE: MAR-13-15

SIGNATURE:

client
Senator Homes
project
BATHURST 9130

#	revisions	date	dwn	chk	#	revisions	date	dwn	chk
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location
Vaughan
marketing name
Bedford

RN design
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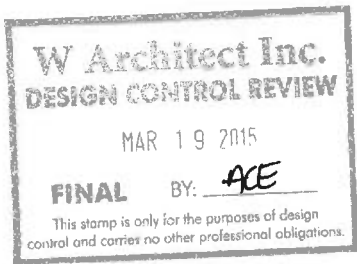
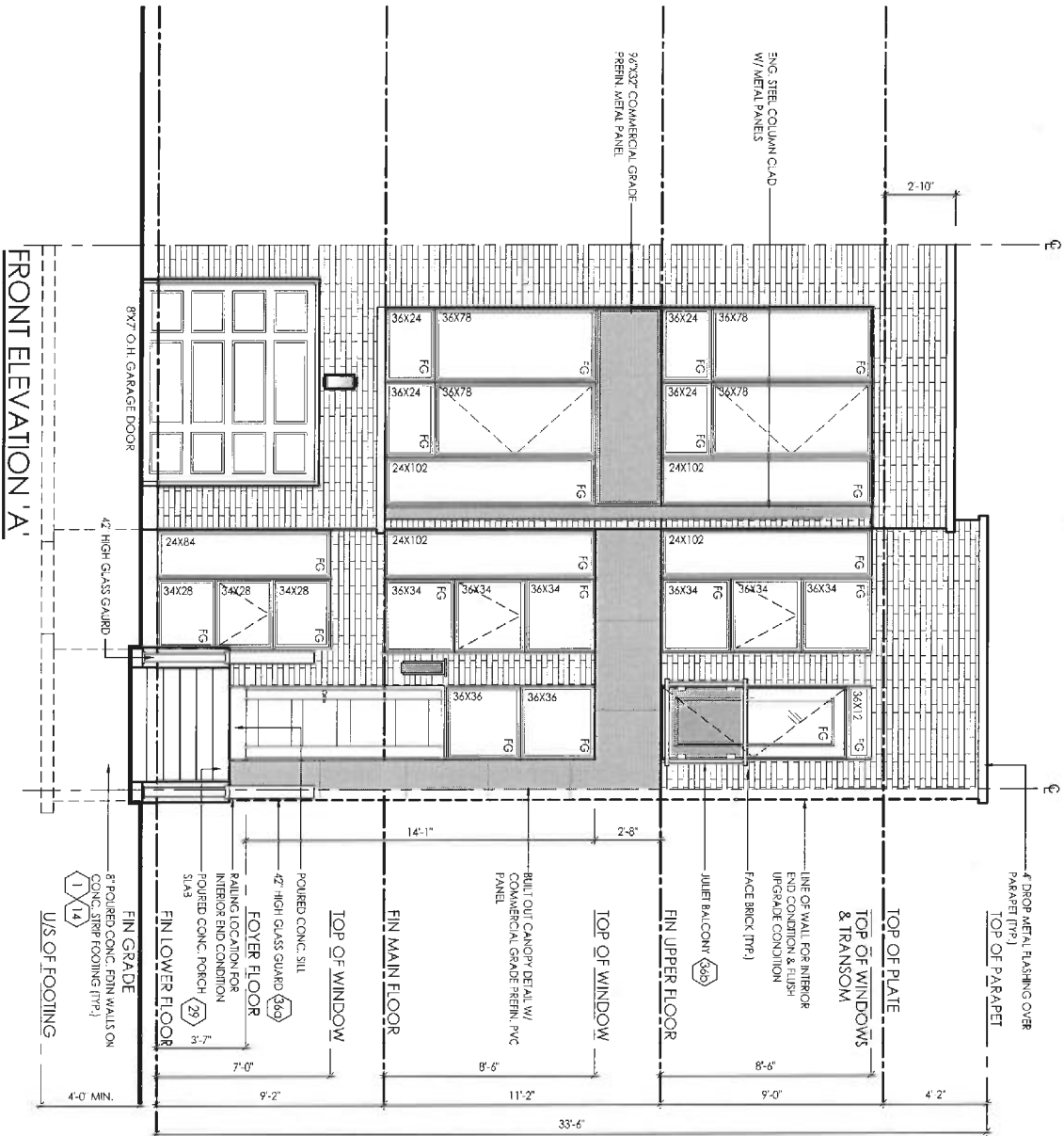
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scale
3/16" = 1'0"

project #
12073

page

A10



client
Senator Homes
location
Vaughan
project
BATHURST 9130
marketing name
Bedford

model
TH-22-2
scale
3/16" = 1'0"
project #
12073

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1	ISSUED FOR CLIENT REVIEW	20 Jun 14	dcb	et	5				
2	ISSUED FOR CLIENT REVIEW	3 Sep 14	th	tpa	6				
3	ISSUED FINAL	13 Aug 15	st	sh	7				
4					8				

GROSS GLAZING AREA - ELEV. 'A'

STANDARD	ALT OPT.
TOTAL PERIPHERAL WALL AREA 3906.91 SF	325.91 m²
FRONT GLAZING AREA 242.54 SF	22.53 m²
LEFT SIDE GLAZING AREA 0.00 SF	0.00 m²
RIGHT SIDE GLAZING AREA 0.00 SF	0.00 m²
REAR GLAZING AREA 281.71 SF	26.17 m²
TOTAL GLAZING AREA 524.25 SF	48.70 m²
TOTAL GLAZING PERCENTAGE 14.95 %	

INTERIOR END

STANDARD	ALT OPT.
TOTAL PERIPHERAL WALL AREA 3531.26 SF	328.07 m²
FRONT GLAZING AREA 242.54 SF	22.53 m²
LEFT SIDE GLAZING AREA 0.00 SF	0.00 m²
RIGHT SIDE GLAZING AREA 69.83 SF	6.48 m²
REAR GLAZING AREA 281.71 SF	26.17 m²
TOTAL GLAZING AREA 594.08 SF	55.19 m²
TOTAL GLAZING PERCENTAGE 16.82 %	

FLUSH UPGRADE

STANDARD	ALT OPT.
TOTAL PERIPHERAL WALL AREA 3531.26 SF	328.07 m²
FRONT GLAZING AREA 242.54 SF	22.53 m²
LEFT SIDE GLAZING AREA 0.00 SF	0.00 m²
RIGHT SIDE GLAZING AREA 69.83 SF	6.48 m²
REAR GLAZING AREA 281.71 SF	26.17 m²
TOTAL GLAZING AREA 594.08 SF	55.19 m²
TOTAL GLAZING PERCENTAGE 16.77 %	

FLUSH UPGRADE

STANDARD	ALT OPT.
TOTAL PERIPHERAL WALL AREA 3531.26 SF	328.07 m²
FRONT GLAZING AREA 242.54 SF	22.53 m²
LEFT SIDE GLAZING AREA 0.00 SF	0.00 m²
RIGHT SIDE GLAZING AREA 69.83 SF	6.48 m²
REAR GLAZING AREA 281.71 SF	26.17 m²
TOTAL GLAZING AREA 594.08 SF	55.19 m²
TOTAL GLAZING PERCENTAGE 16.77 %	

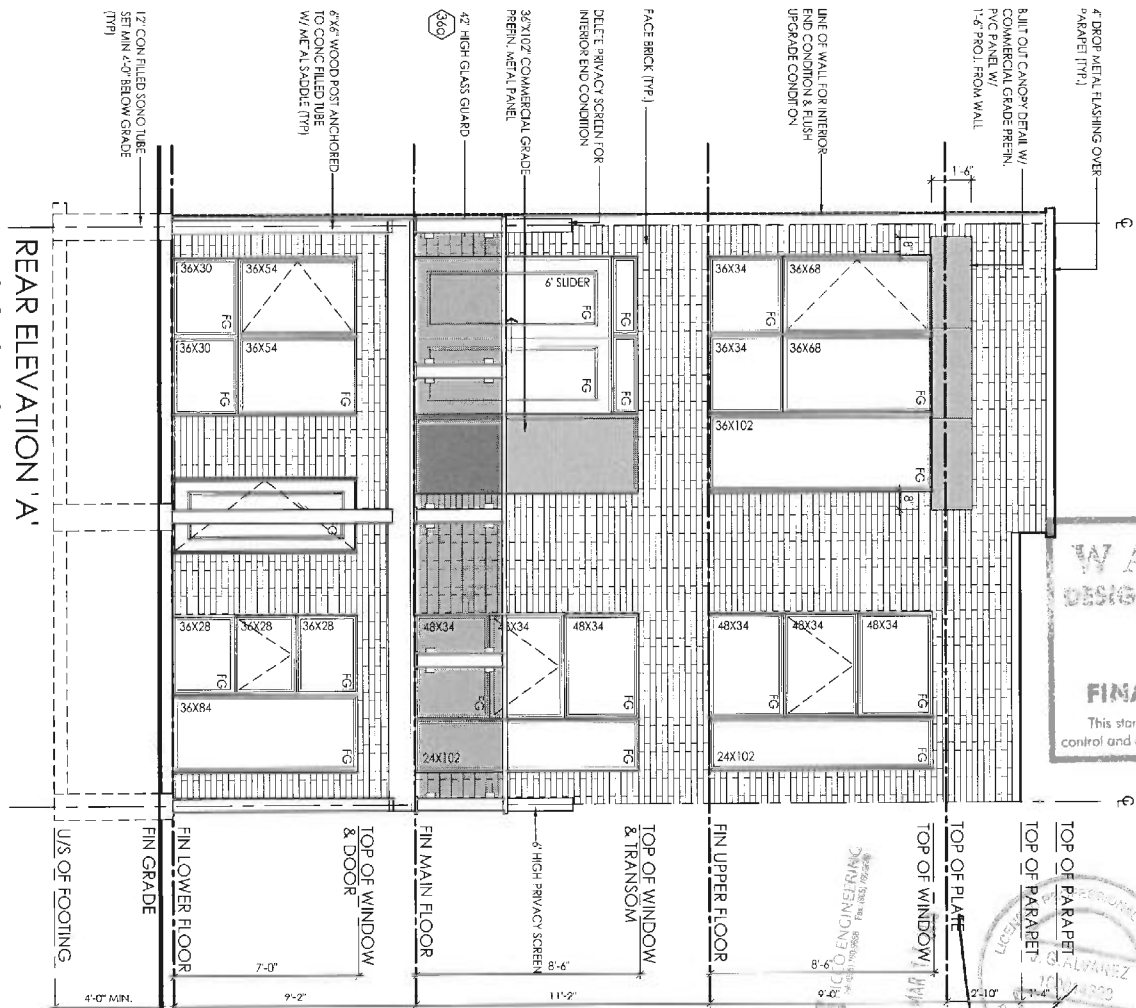
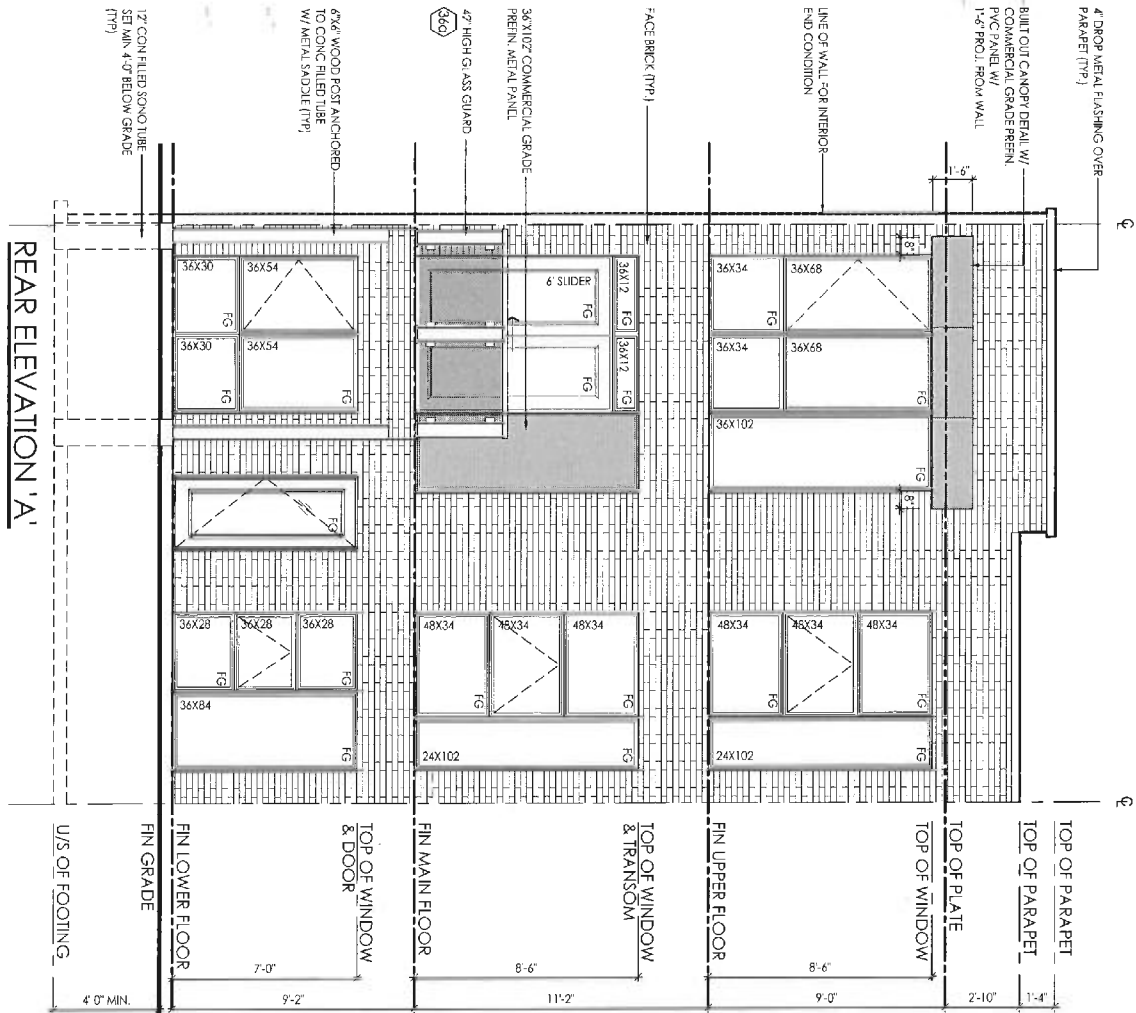
FLUSH UPGRADE

STANDARD	ALT OPT.
TOTAL PERIPHERAL WALL AREA 3531.26 SF	328.07 m²
FRONT GLAZING AREA 242.54 SF	22.53 m²
LEFT SIDE GLAZING AREA 0.00 SF	0.00 m²
RIGHT SIDE GLAZING AREA 69.83 SF	6.48 m²
REAR GLAZING AREA 281.71 SF	26.17 m²
TOTAL GLAZING AREA 594.08 SF	55.19 m²
TOTAL GLAZING PERCENTAGE 16.77 %	

FLUSH UPGRADE

STANDARD	ALT OPT.
TOTAL PERIPHERAL WALL AREA 3531.26 SF	328.07 m²
FRONT GLAZING AREA 242.54 SF	22.53 m²
LEFT SIDE GLAZING AREA 0.00 SF	0.00 m²
RIGHT SIDE GLAZING AREA 69.83 SF	6.48 m²
REAR GLAZING AREA 281.71 SF	26.17 m²
TOTAL GLAZING AREA 594.08 SF	55.19 m²
TOTAL GLAZING PERCENTAGE 16.77 %	

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QUALIFIED DESIGNER BCIN: 30840
FIRM BCIN: 26995
DATE: MAR-13-15
SIGNATURE: *E. Schneider*



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MAR 19 2015
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I, ERIC SCHNEIDER DO CLARE THAT I HAVE REVIEWED AND TAKEN DESIGN RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF **RYN DESIGN LTD.** UNDER DIVISION C, PART 3 SUBSECTION 3.2.4 OF THE BUILDING CODE. I AM QUALIFIED AND THE FIRM IS REGISTERED IN THE APPROPRIATE CLASSES / CATEGORIES.
QUALIFIED DESIGNER BCIN: 30840
FIRM BCIN: 26995
DATE: MAR-13-15

SIGNATURE: *Eric Schneider*

client
Senator Homes
project
BATHURST 9130

location
Vaughan
marketing name
Bedford

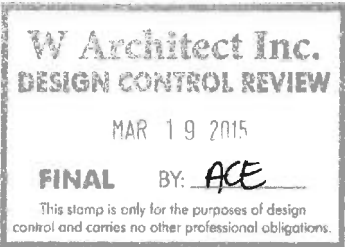
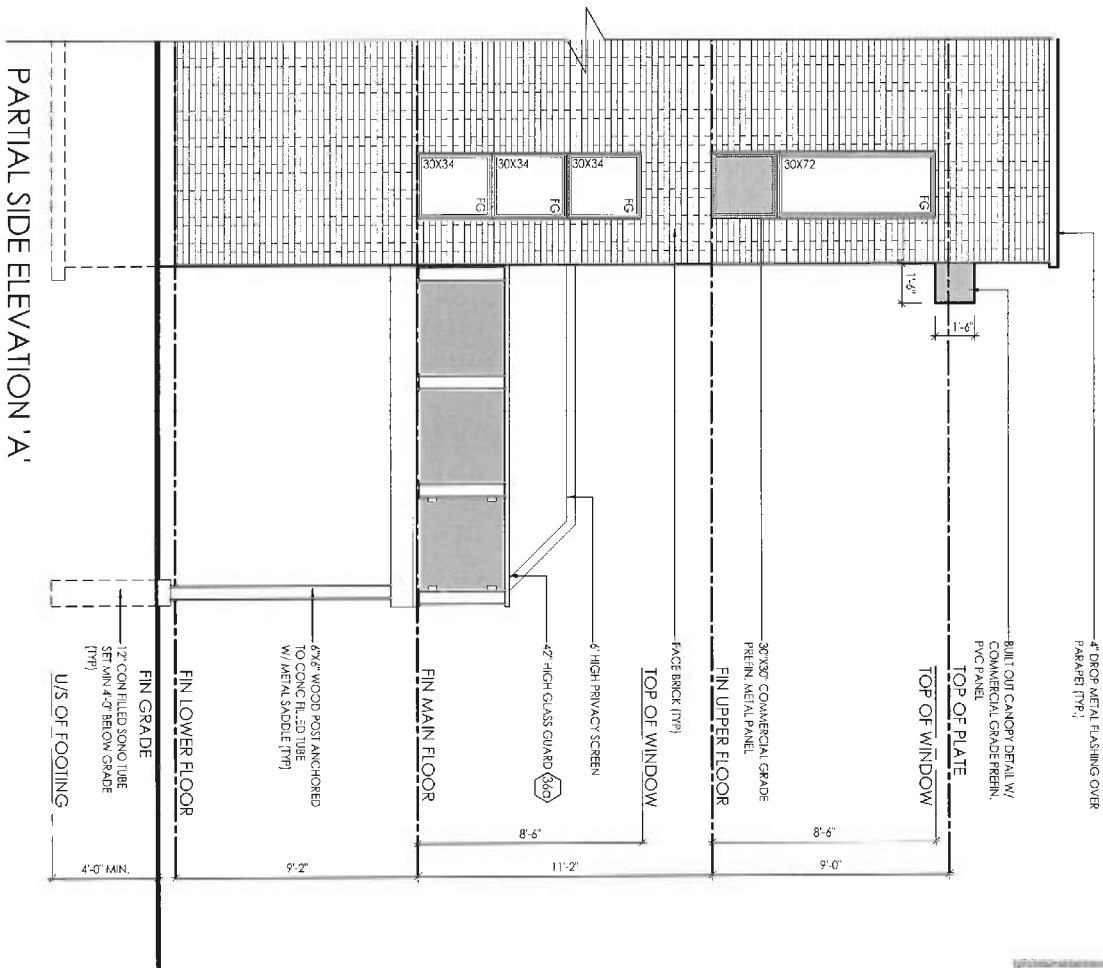
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4					8				

RYN design
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model
TH-22-2
scale
3/16" = 1'0"
project #
12073

page
A12

PARTIAL SIDE ELEVATION 'A'
INTERIOR END
BLOCKS R, S, T & U



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QUALIFIED DESIGNER BCIN: 30840
FIRM BCIN: 26995
DATE: MAR-13-15

Eric Schneider

SIGNATURE:

client
Senator Homes
project
BATHURST 9130

location
Vaughan
marketing name
Bedford

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RN design
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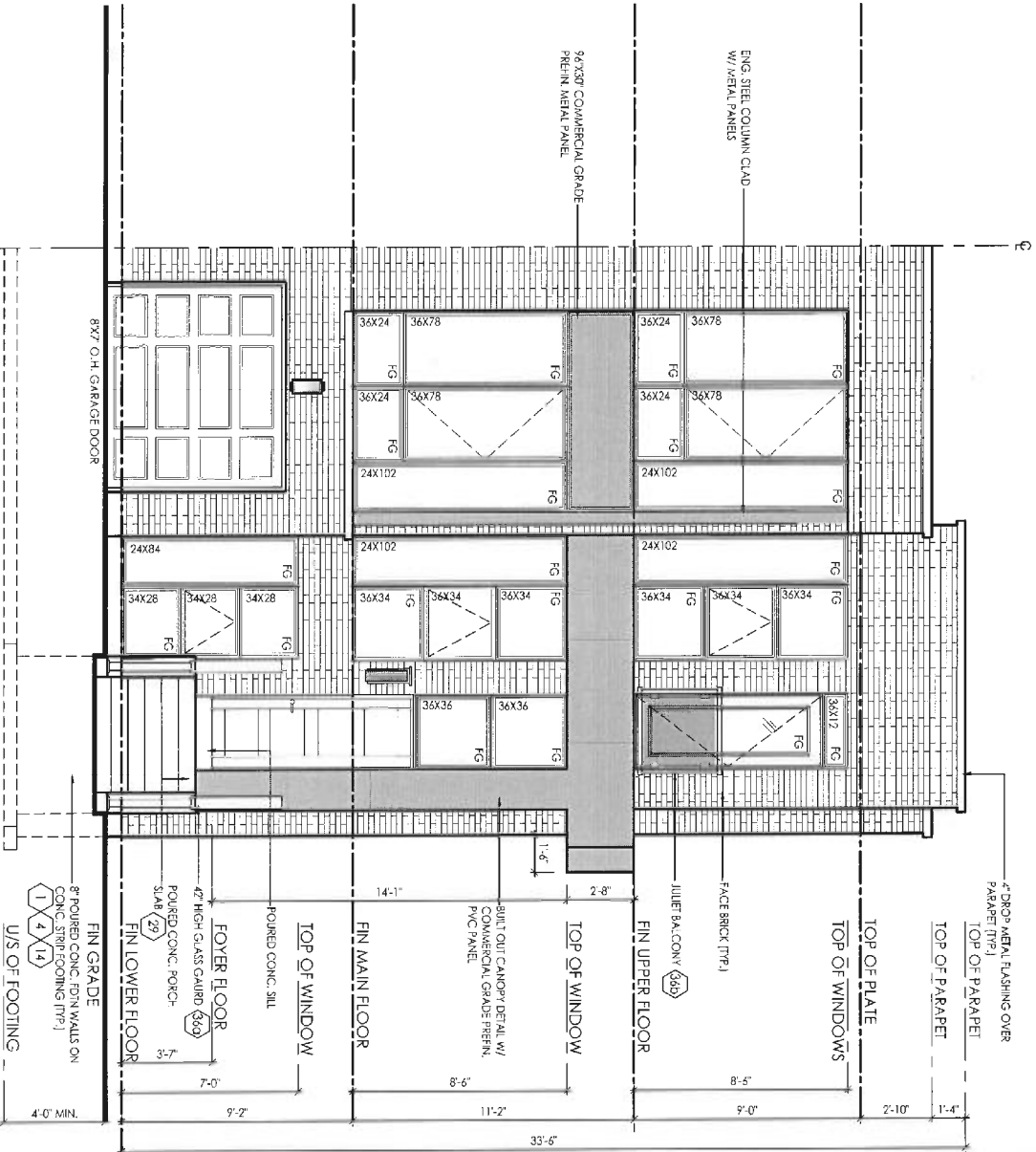


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scale
3/16" = 1'0"
project #
12073

page

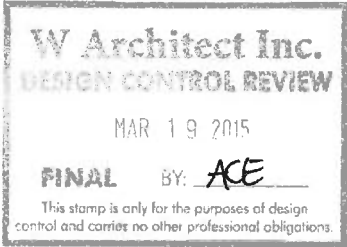
A14

FRONT ELEVATION 'A'
SIDE UPGRADE



GROSS GLAZING AREA - ELEV. 'A' SIDE UPGRADE

	STANDARD	ALT OPT.	OPTIONAL
TOTAL PERIPHERAL WALL AREA	3589.94 SF	3586.92 SF	3601.58 SF
FRONT GLAZING AREA	242.54 SF	242.54 SF	242.54 SF
LEFT SIDE GLAZING AREA	0.00 SF	0.00 SF	0.00 SF
RIGHT SIDE GLAZING AREA	223.31 SF	223.31 SF	223.31 SF
REAR GLAZING AREA	281.71 SF	281.71 SF	281.71 SF
TOTAL GLAZING AREA	747.56 SF	747.56 SF	747.56 SF
TOTAL GLAZING PERCENTAGE	20.82 %	20.84 %	20.76 %



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FIRM BCIN: 26995
DATE: MAR-13-15

SIGNATURE:

client
Senator Homes
project
BATHURST 9130

location
Vaughan
marketing name
Bedford

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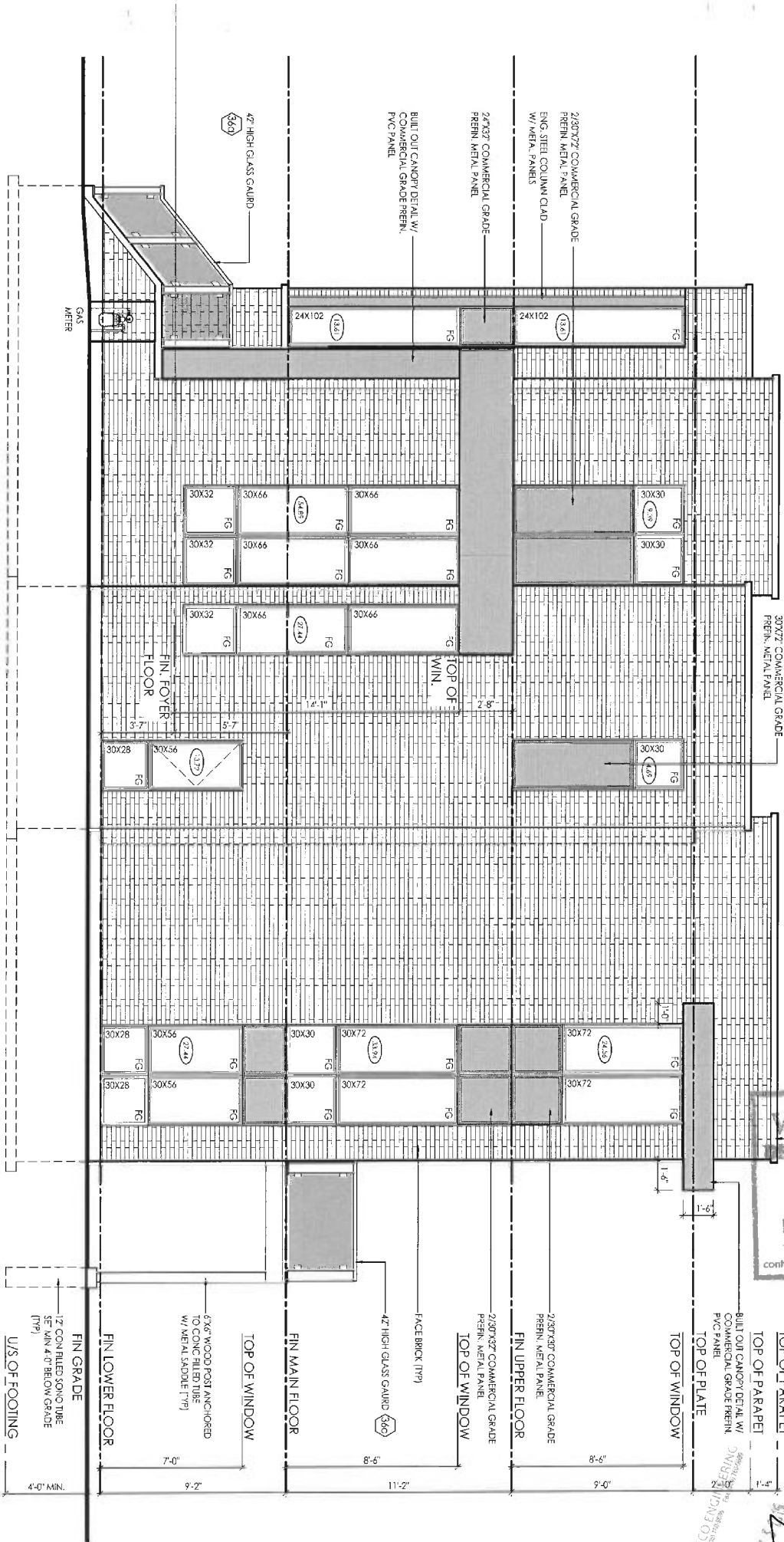
RN design
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TH-22-2
scale
3/16" = 1'0"
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page
A15

SIDE ELEVATION 'A'
SIDE UPGRADE



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FIRM BCIN: 26995
DATE: MAR-13-15

SIGNATURE: *E. Schneider*

client
Senator Homes
project
BATHURST 9130

location
Vaughan
marketing name
Bedford

#	revisions	date	dwn	chk	#	revisions	date	dwn	chk
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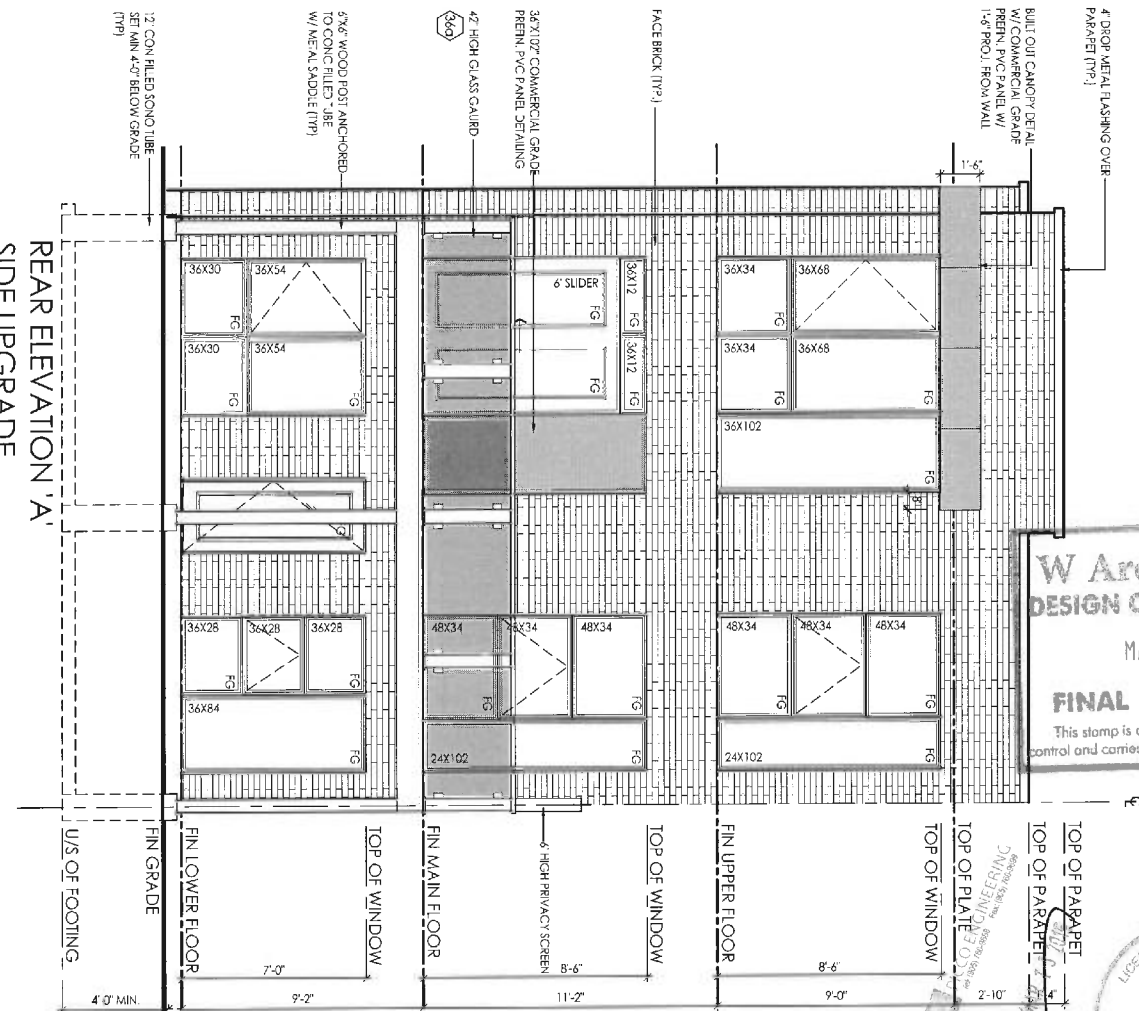
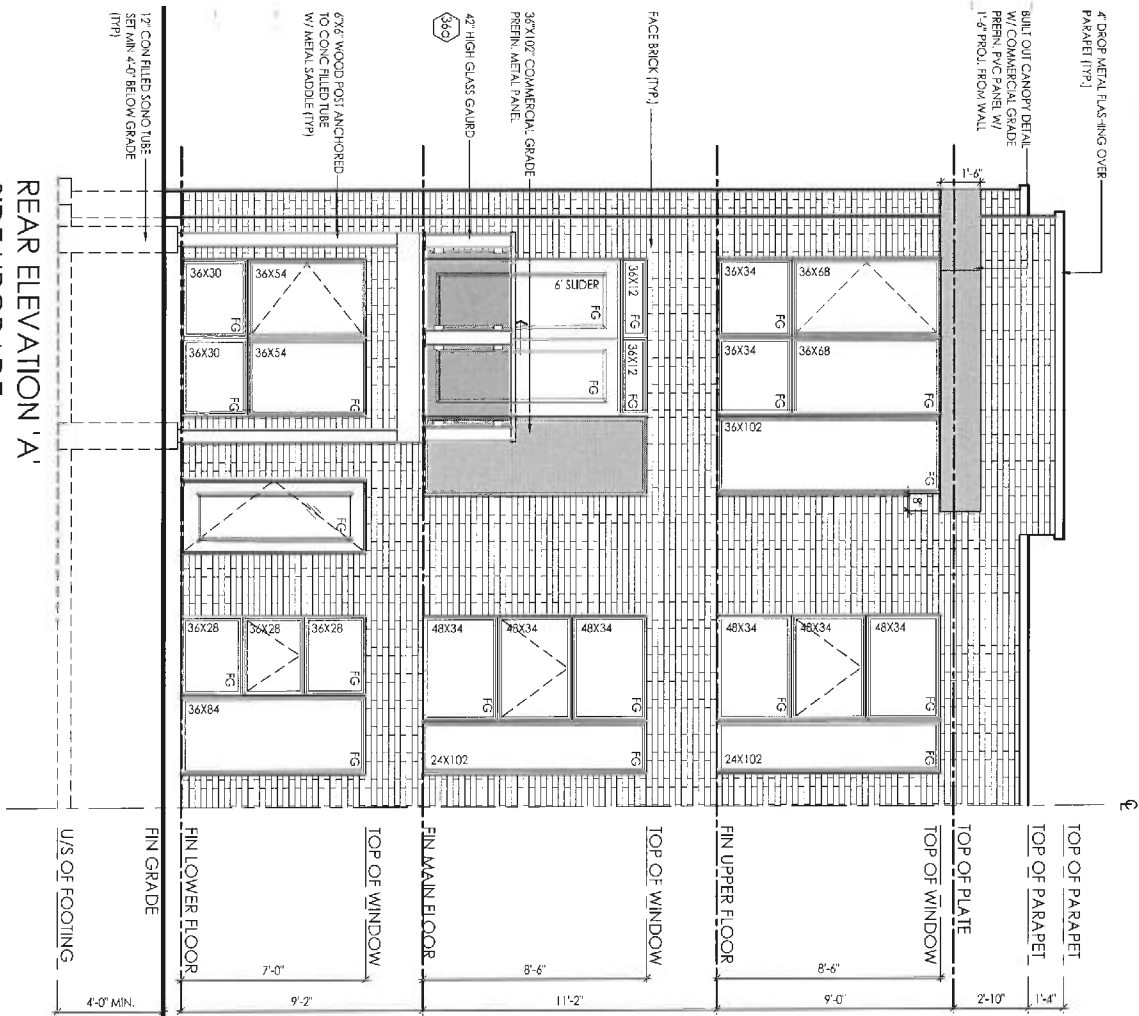
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model
TH-22-2
scale
3/16" = 1'0"
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A16



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QUALIFIED DESIGNER BCIN: 30840
FIRM BCIN: 26995
DATE: MAR-13-15

E. Schneider

SIGNATURE:

client
Senator Homes
project
BATHURST 9130

location
Vaughan
marketing name
Bedford

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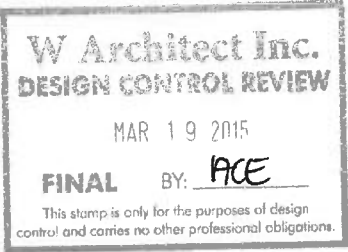
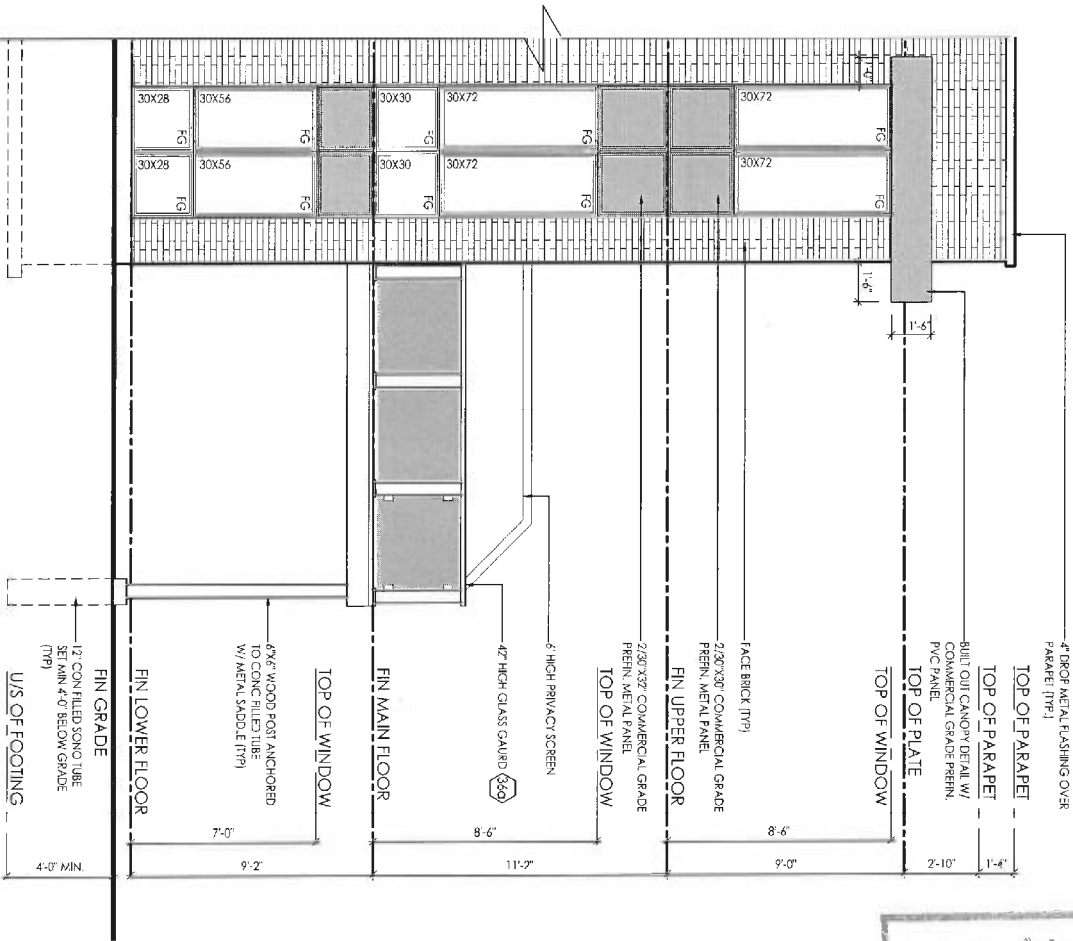
RN design
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model
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scale: 3/16" = 1'-0"
project #
12073

page
A17

PARTIAL SIDE ELEVATION 'A'
SIDE UPGRADE
BLOCKS R, S, T & U



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QUALIFIED DESIGNER BCIN: 30840
FIRM BCIN: 26995
DATE: MAR-13-15

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client
Senator Homes
project
BATHURST 9130

location
Vaughan
marketing name
Bedford

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RN design
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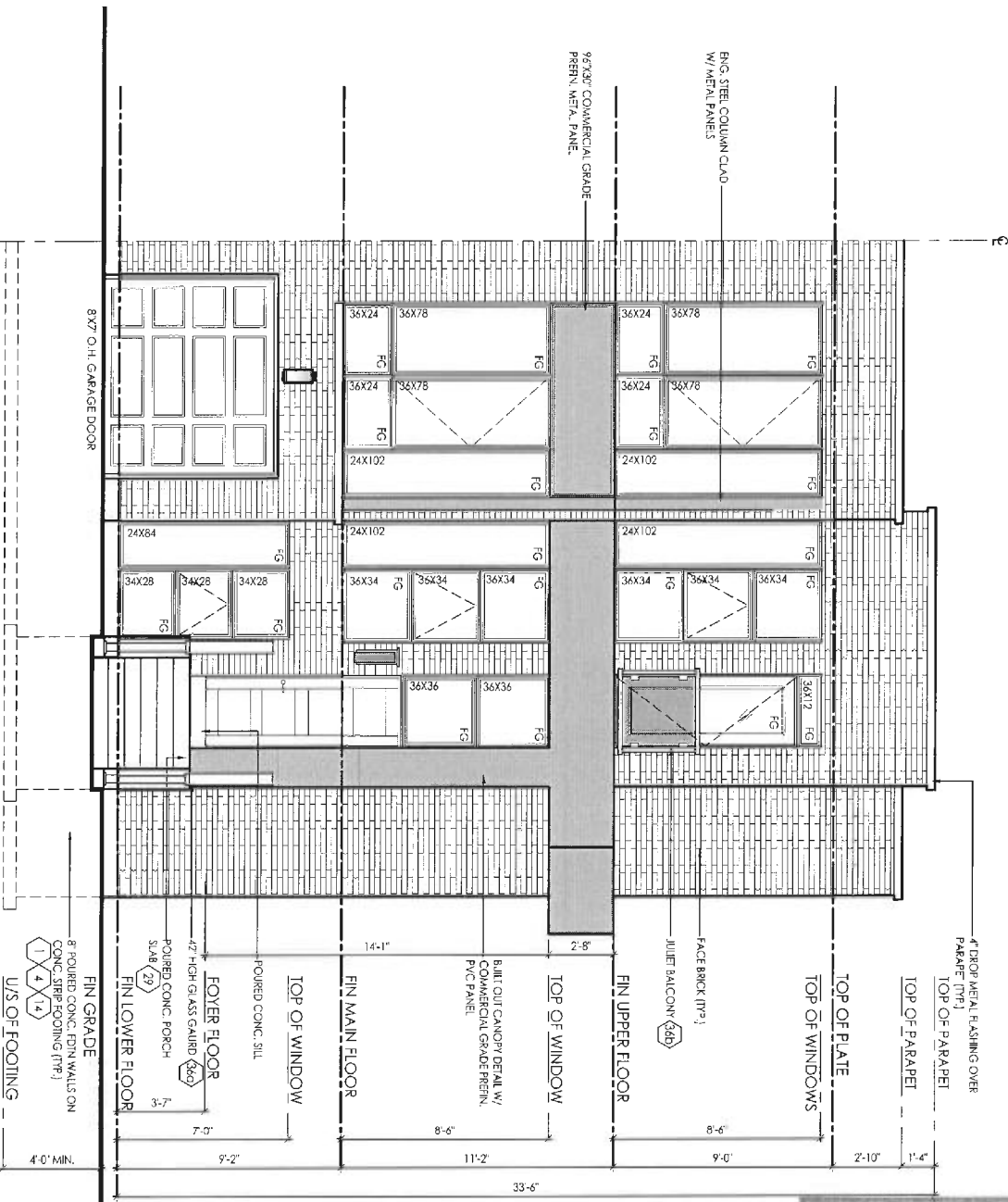


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project #
12073

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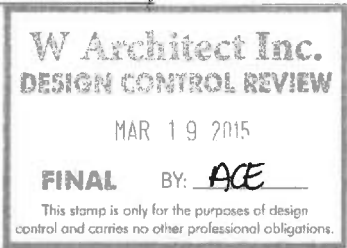
A18

FRONT ELEVATION 'A'
CORNER UPGRADE



GROSS GLAZING AREA - ELEV. 'A' CORNER UPGRADE

STANDARD				ALT OPT.				OPTIONAL			
TOTAL PERIPHERAL WALL AREA	3867.22 SF	399.28 m²		3864.10 SF	398.89 m²			3878.77 SF	398.36 m²		
FRONT GLAZING AREA	242.24 SF	22.53 m²		242.54 SF	22.53 m²			242.54 SF	22.53 m²		
LEFT SIDE GLAZING AREA	0.00 SF	0.00 m²		0.00 SF	0.00 m²			0.00 SF	0.00 m²		
RIGHT SIDE GLAZING AREA	245.17 SF	22.78 m²		245.17 SF	22.78 m²			245.17 SF	22.78 m²		
REAR GLAZING AREA	281.71 SF	26.17 m²		281.71 SF	26.17 m²			281.71 SF	26.17 m²		
TOTAL GLAZING AREA	769.42 SF	71.48 m²		769.42 SF	71.48 m²			769.42 SF	71.48 m²		
TOTAL GLAZING PERCENTAGE	19.90 %			19.91 %				19.94 %			



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QUALIFIED DESIGNER BCIN: 30840
FIRM BCIN: 26995
DATE: MAR-13-15

SIGNATURE:

client
Senator Homes

project
BATHURST 9130

location
Vaughan

marketing name
Bedford

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RN design
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model
TH-22-2

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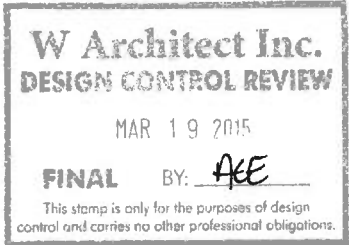
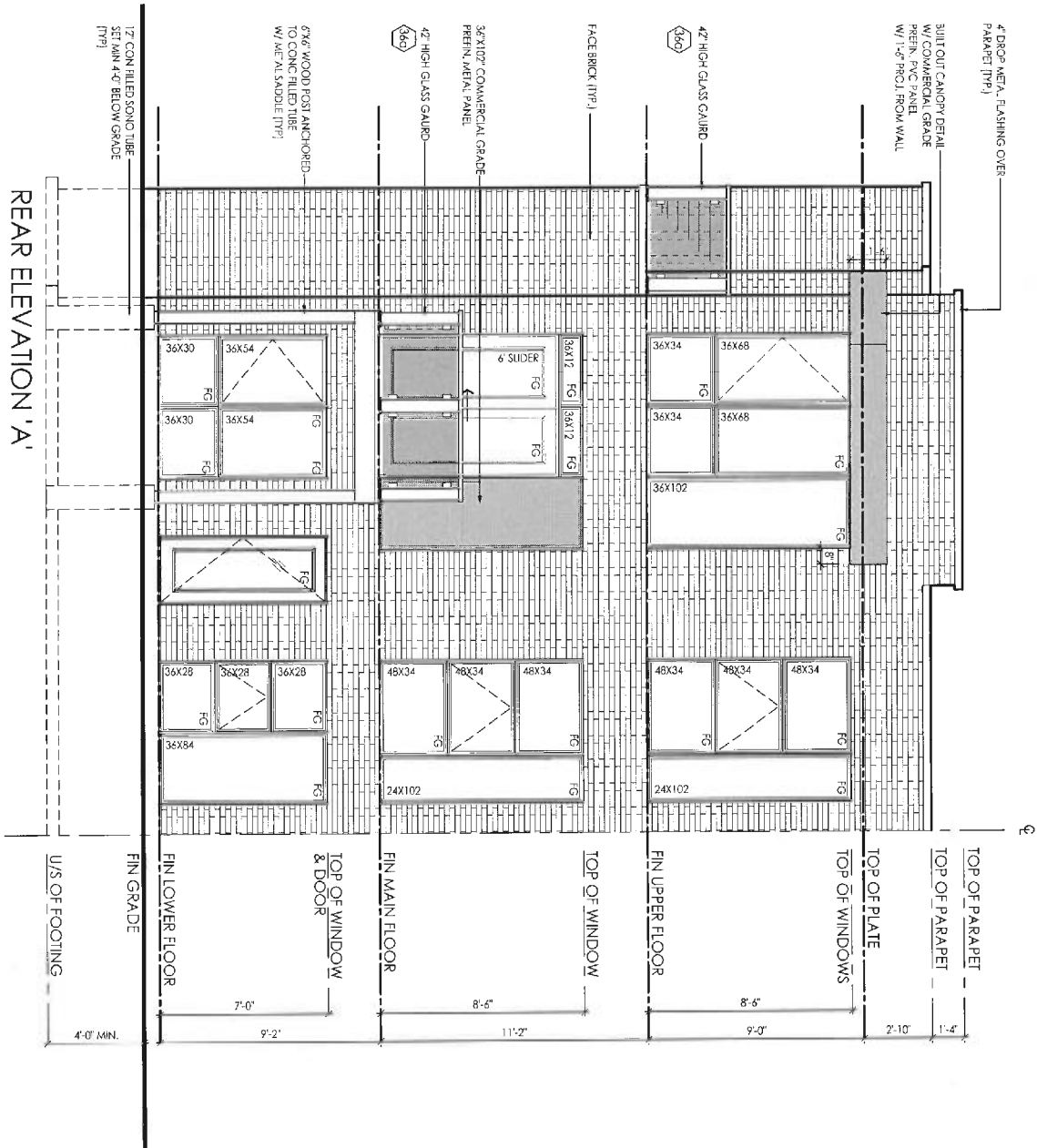
project #
12073

page

A19



REAR ELEVATION 'A'
CORNER UPGRADE



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QUALIFIED DESIGNER BCIN: 30840
FIRM BCIN: 26995
DATE: MAR-13-15

SIGNATURE:

client
Senator Homes
project
BATHURST 9130

location
Vaughan
marketing name
Bedford

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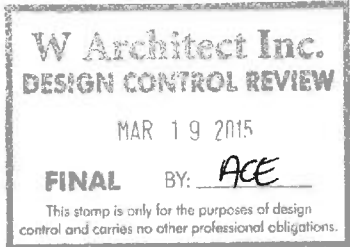
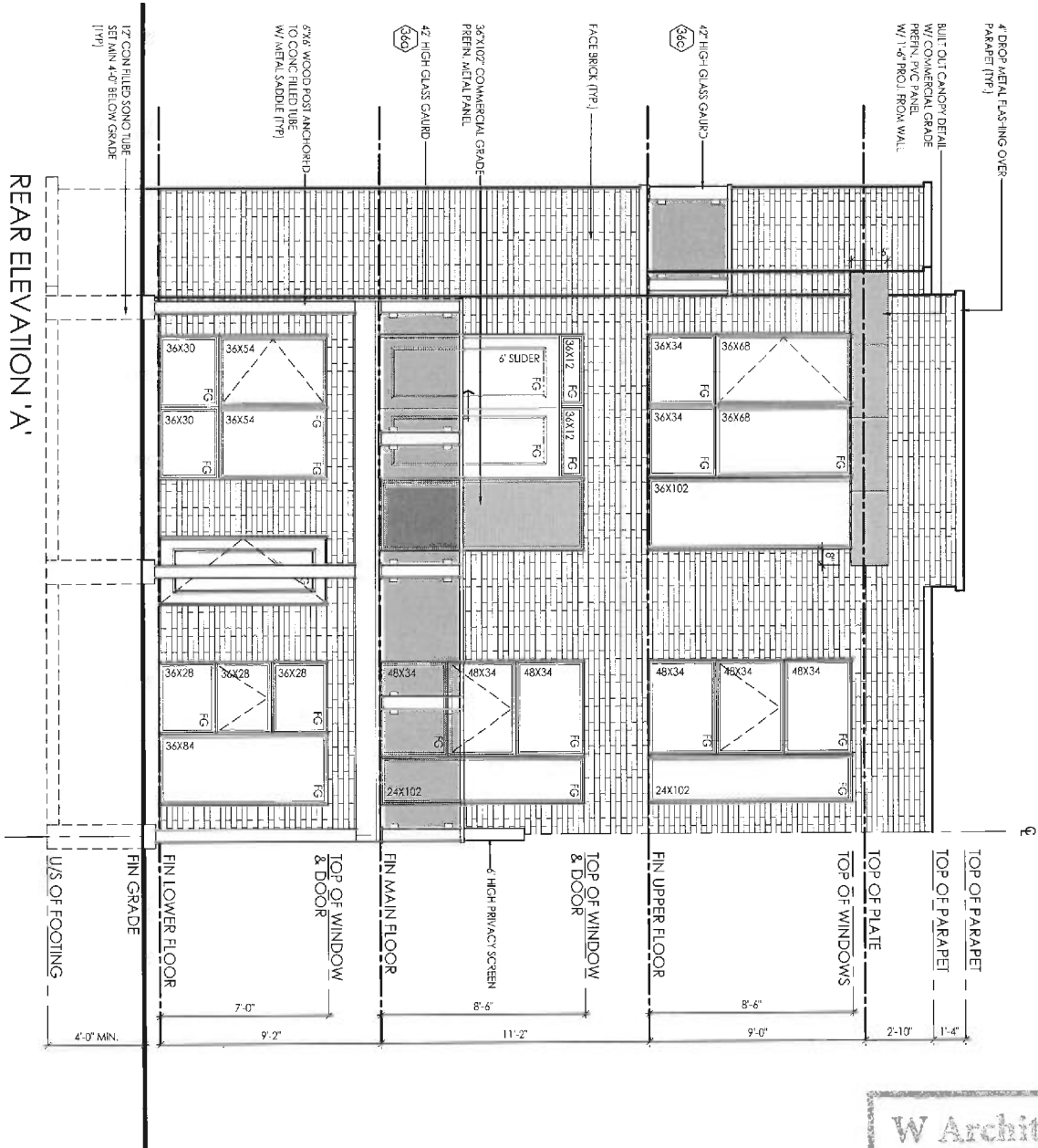


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scale
3/16" = 1'-0"
project #
12073

page

A21

REAR ELEVATION 'A'
CORNER UPGRADE
BLOCKS R, S, T & U



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FIRM BCIN: 30840
DATE: 26995 MAR-13-15

SIGNATURE:

client
Senator Homes
project
BATHURST 9130

location
Vaughan
marketing name
Bedford

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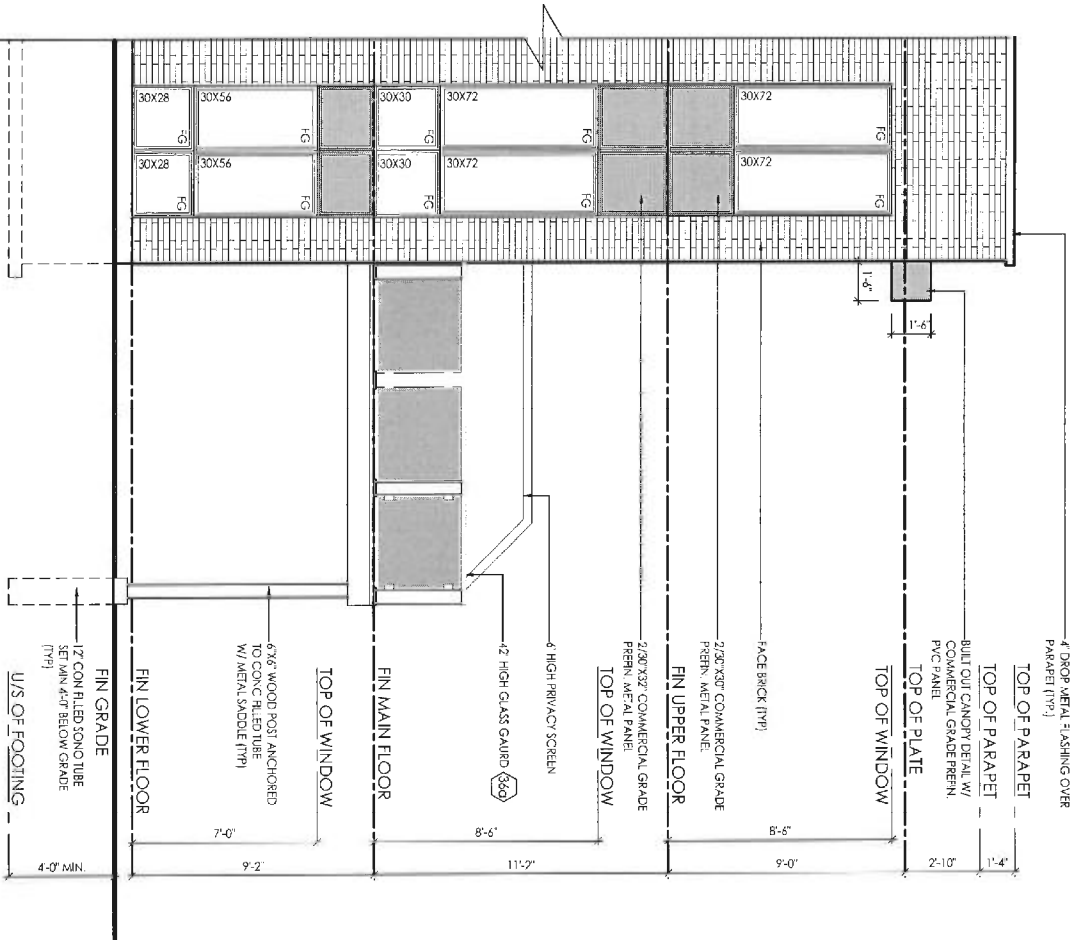


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scale
3/16" = 1'0"
project #
12073

page

A22

PARTIAL SIDE ELEVATION 'A'
CORNER UPGRADE
BLOCKS R, S, T & U



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QUALIFIED DESIGNER BCIN: 30340
FIRM BCIN: 26995
DATE: MAR-13-15

SIGNATURE: Eric Schneider

client
Senator Homes
project
BATHURST 9130

location
Vaughan
marketing name
Bedford

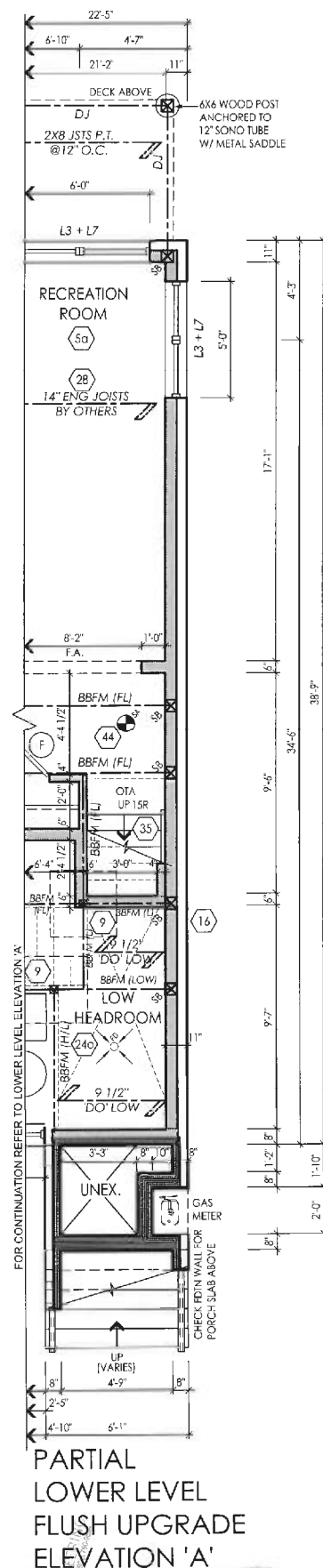
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RN design
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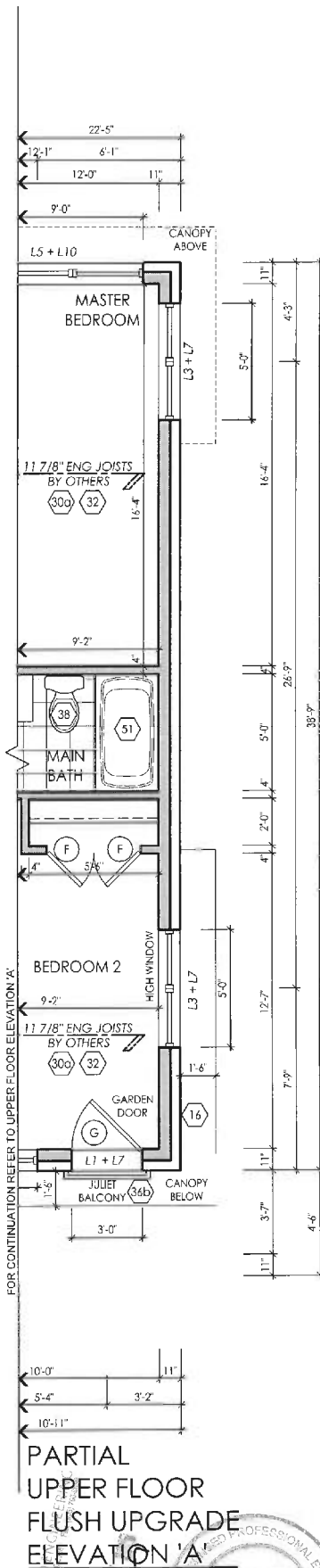
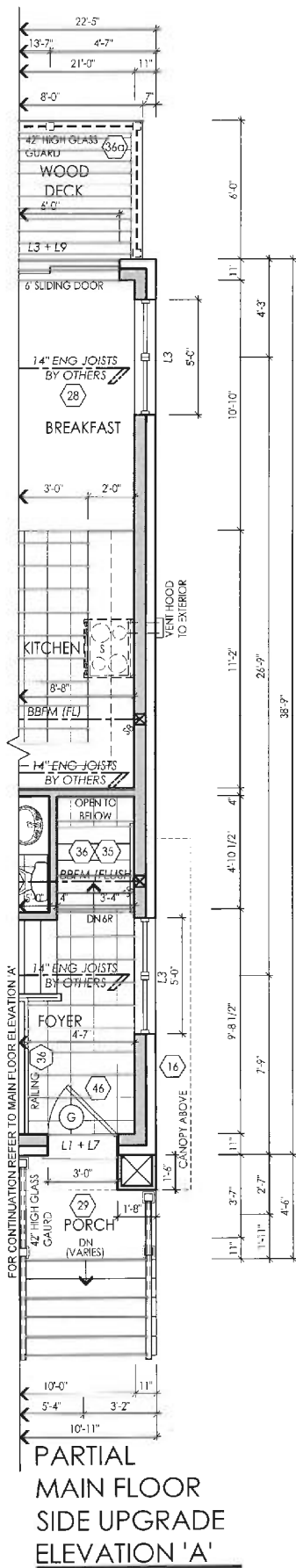
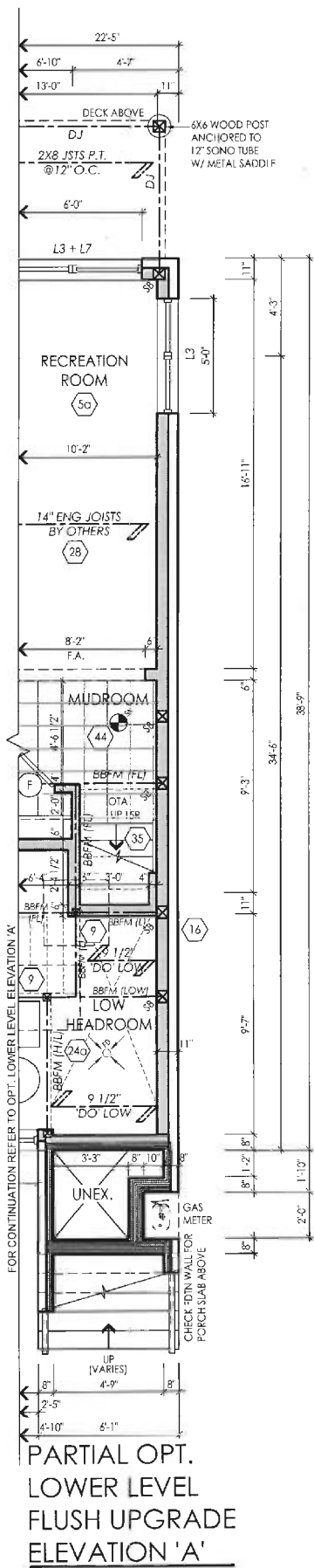
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project #
12073

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A23



A24

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2	ISSUED FINAL	13-Mar-15	15	15	6				
3					7				
4					8				



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QUALIFIED DESIGNER BCIN: 30840

FIRM BCIN: 26995

DATE: MAR-13-15

SIGNATURE: *E. Schneider*

client

Senator Homes

location

Vaughan

project

BATHURST 9130

marketing name

Bedford

#	revisions	date	dwn	chk	#	revisions	date	dwn	chk
1	ISSUED FOR CLIENT REVIEW	10-Dec-14	sl		5				
2	ISSUED FINAL	13-Mar-15	sh	sh	6				
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4					8				



model: ONTARIO
TH-22-2

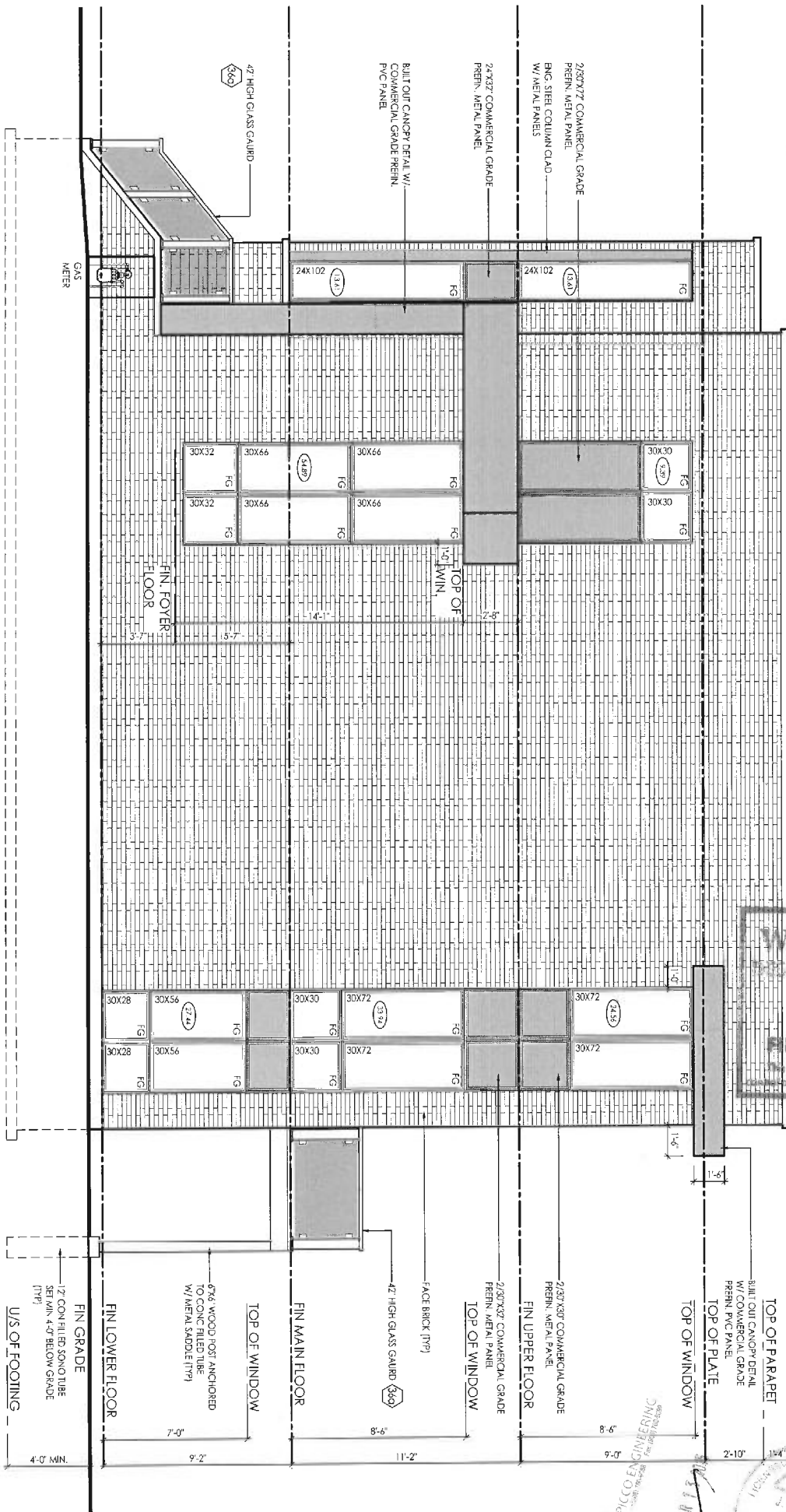
scale: 3/16" = 1'0"

project #: 12073

page
A25

SIDE ELEVATION 'A' FLUSH UPGRADE

ALLOWABLE UNPROTECTED OPENINGS	
TOTAL WALL AREA	1268.67 SF
LIMITING DISTANCE	4.0 FT
ALLOWABLE OPENINGS	90.86 SF
ACTUAL OPENINGS	177.44 SF



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PICCO ENGINEERING
 Inc. 10001
 10001

I, ERIC SCHNEIDER DECLARE THAT I HAVE REVIEWED AND TAKEN DESIGN RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF **RN DESIGN LTD** UNDER DIVISION C, PART 3 SUBSECTION 3.2.4 OF THE BUILDING CODE. I AM QUALIFIED AND THE FIRM IS QUALIFIED IN THE APPROPRIATE CLASSES / CATEGORIES.
 QUALIFIED DESIGNER BCIN: 30840
 FIRM BCIN: 26995
 DATE: MAR-13-15
 SIGNATURE: *E. Schneider*

client Senator Homes					location Vaughan				
project BATHURST 9130					marketing name Bedford				
#	revisions	date	dwn	chk	#	revisions	date	dwn	chk
1	ISSUED FOR CLIENT REVIEW	10-Dec-14	sl		5				
2	ISSUED FINAL	13-Mar-15	sh	sh	6				
3					7				
4					8				

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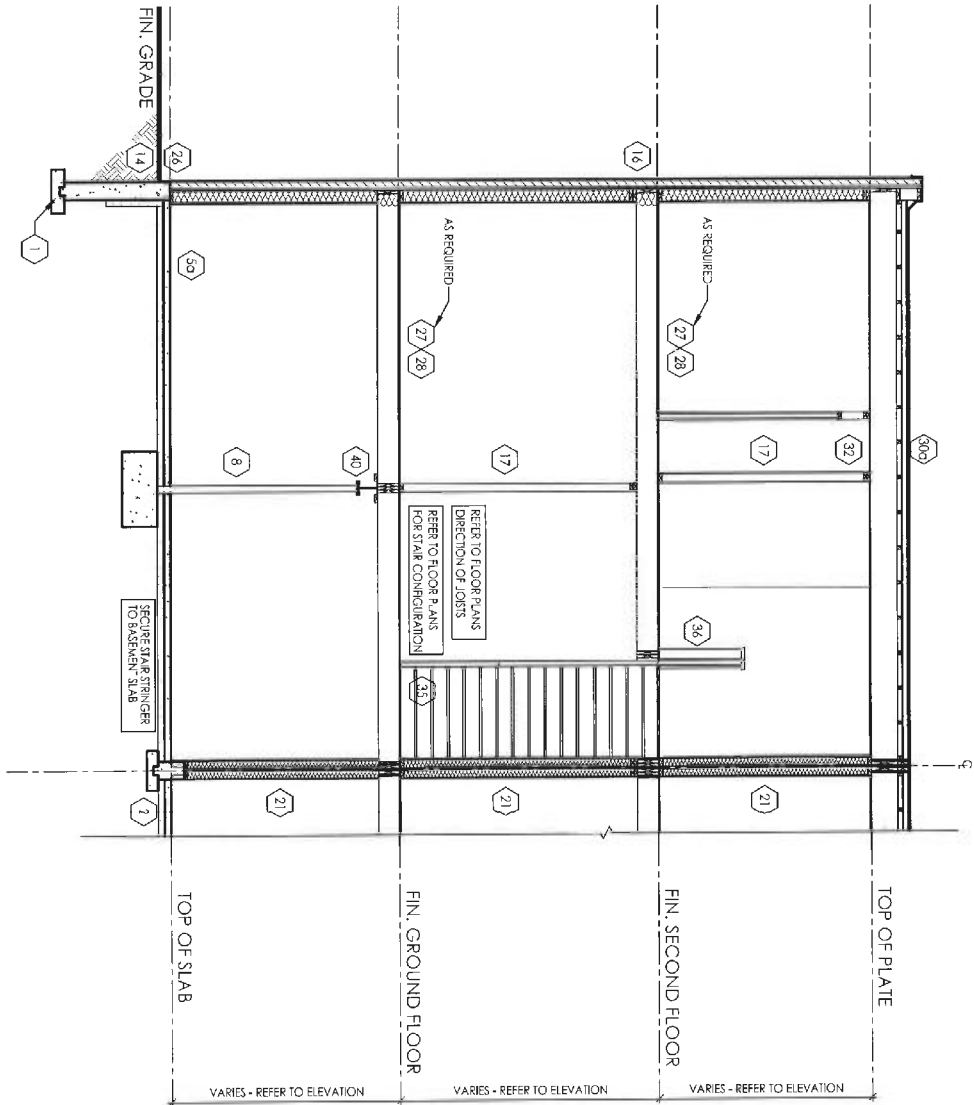
model
TH-22-2

scale
3/16" = 1'0"

project #
12073

page
A26

TYPICAL CROSS SECTION
N.T.S.



I, ERIC SCHNEIDER DECLARE THAT I HAVE REVIEWED AND TAKEN DESIGN RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF RN DESIGN LTD. UNDER DIVISION C, PART-3 SUBSECTION 3.2.4 OF THE BUILDING CODE. I AM QUALIFIED AND THE FIRM IS REGISTERED IN THE APPROPRIATE CLASSES / CATEGORIES.
FIRM BCIN: 30840
DATE: 26995 MAR-13-15

SIGNATURE:

client
Senator Homes
project
BATHURST 9130

location
Vaughan
marketing name
Bedford

#	revisions	date	dwn	chk	#	revisions	date	dwn	chk
1	ISSUED FOR CLIENT REVIEW	10-Dec-14	sl		5				
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3					7				
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SHZ & ASSOCIATES
10/20/14



CONSTRUCTION NOTES:

COMPLIANCE PACKAGE J - O.B.C. 2012 - 2015 ENACTMENT

(UNLESS OTHERWISE NOTED)

- ALL CONSTRUCTION TO CONFORM TO THE ONTARIO BUILDING CODE (O.B.C.) AND ALL OTHER CODES AND LOCAL AUTHORITIES HAVING JURISDICTION.
- ALL DIMENSIONS GIVEN FIRST IN IMPERIAL FOLLOWED BY METRIC.
- THERMAL RESISTANCE VALUES BASED ON ZONE 1

FOOTINGS / SLABS:

TYPICAL STRIP FOOTING:

- O.B.C. 9.15.3.
- BASED ON 16'-1" (4.9m) MAX. SUPPORTED JOIST LENGTH
- MIN. 2200psi (15MPa) CONCRETE AFTER 28 DAYS
- SHALL REST ON UNDISTURBED SOIL, ROCK OR COMPACTED GRANULAR FILL W/ MIN. 10.9psi (75kPa) BEARING CAPACITY
- FTG. TO HAVE CONTINUOUS KEY
- FTG. SIZES MAY BE REDUCED FOR SOILS W/ GREATER BEARING CAPACITY (AS PER SOILS ENGINEERING REPORT)

TYPICAL STRIP FOOTING: (EXTERIOR WALLS)

- O.B.C. 9.15.3.5.
- FTG. TO EXTEND MIN. 4'-0" (1200mm) BELOW GRADE
- BRICK VENEER
 - 1 STOREY - 13" X 4" (330mm X 100mm)
 - 2 STOREY - 19" X 4" (485mm X 155mm)
 - 3 STOREY - 26" X 9" (660mm X 230mm)

- SIDING:
 - 1 STOREY - 10" X 4" (255mm X 100mm)
 - 2 STOREY - 14" X 4" (360mm X 100mm)
 - 3 STOREY - 18" X 5" (460mm X 130mm)

TYPICAL STRIP FOOTING: (INTERIOR BEARING WALLS)

- O.B.C. 9.15.3.6.
- 1 STOREY MASONRY - 16" X 4" (410mm X 100mm)
- 1 STOREY STUD - 12" X 4" (305mm X 100mm)
- 2 STOREY MASONRY - 26" X 9" (660mm X 230mm)
- 2 STOREY STUD - 18" X 5" (460mm X 130mm)
- 3 STOREY MASONRY - 36" X 14" (900mm X 360mm)
- 3 STOREY STUD - 24" X 8" (600mm X 200mm)

STEP FOOTING:

- O.B.C. 9.15.3.9.
- 23 5/8" (600mm) MAX. VERTICAL RISE & 23 5/8" (600mm) MIN. HORIZONTAL RUN.

DRAINAGE TILE OR PIPE:

- O.B.C. 9.14.3.
- 4" (100mm) MIN. DIA. Laid ON UNDISTURBED OR WELL COMPACTED SOIL W/ TOP OF TILE OR PIPE TO BE BELOW BOTTOM OF FLR. SLAB.
- COVER TOP & SIDES OF TILE OR PIPE W/ 5 7/8" (150mm) OF CRUSHED STONE OR OTHER COURSE CLEAN GRANULAR MATERIAL.
- TILE SHALL DRAIN TO A SEWER, DRAINAGE DITCH, OR DRY WELL.

BASEMENT SLAB:

- O.B.C. 9.13. & 9.16.
- 3" (75mm) CONCRETE SLAB
- 2200psi (15MPa) AFTER 28 DAYS - O.B.C. 9.16.4.5.
- DAMP-PROOF BELOW SLAB W/ MIN. 0.006" (0.15mm) POLYETHYLENE OR TYPE 'S' ROLL ROOFING W/ 4" (100mm) LAPPED JOINTS.
- DAMP-PROOFING MAY BE OMITTED IF CONCRETE HAS MIN. 3600psi (25MPa) COMPRESSIVE STRENGTH AFTER 28 DAYS
- 4" (100mm) OF COURSE GRANULAR MATERIAL
- PROVIDE BOND BREAKING MATERIAL BETWEEN SLAB & FTG.
- WHERE SLAB IS REQUIRED TO BE WATERPROOFED IT SHALL CONFORM TO O.B.C. 9.13.3.
- FLOOR DRAIN PER O.B.C. 9.31.4.4.
- R10 (RSI 1.76) INSULATION AT PERIMETER OF SLAB WHERE GRADE IS WITHIN 23-1/2" (600mm) OF BASEMENT SLAB EDGE. INSULATION TO EXTEND TO NOT LESS THAN 23-1/2" (600mm) BELOW EXTERIOR GRADE LEVEL (O.B.C. 9.12-2.1.1.6 (S))
- UNLESS IT CAN BE DEMONSTRATED THAT SOIL GAS DOES NOT CONSTITUTE A PROBLEM, SOIL GAS CONTROL SHALL CONFORM TO SUPPLEMENTARY STANDARD (O.B.C. 9.25-9)

SLAB ON GROUND:

- O.B.C. 9.13. & 9.16.4.3.
- 3" (75mm) CONCRETE SLAB
- 2200psi (15MPa) AFTER 28 DAYS - O.B.C. 9.16.4.5.
- DAMP-PROOF BELOW SLAB W/ MIN. 0.006" (0.15mm) POLYETHYLENE OR TYPE 'S' ROLL ROOFING W/ 4" (100mm) LAPPED JOINTS.
- DAMP-PROOFING MAY BE OMITTED IF CONCRETE HAS MIN. 3600psi (25MPa) COMPRESSIVE STRENGTH AFTER 28 DAYS
- R10 (RSI 1.76) INSULATION UNDER ENTIRE SLAB WHERE THE ENTIRE SLAB IS WITHIN 23-1/2" (600mm) OF GRADE.
- 4" (100mm) OF COURSE GRANULAR MATERIAL
- PROVIDE BOND BREAKING MATERIAL BETWEEN SLAB & FTG.
- WHERE SLAB IS REQUIRED TO BE WATERPROOFED IT SHALL CONFORM TO O.B.C. 9.13.3.
- FLOOR DRAIN PER O.B.C. 9.31.4.4.
- UNLESS IT CAN BE DEMONSTRATED THAT SOIL GAS DOES NOT CONSTITUTE A PROBLEM, SOIL GAS CONTROL SHALL CONFORM TO SUPPLEMENTARY STANDARD (O.B.C. 9.25-9)

GARAGE SLAB / EXTERIOR SLAB:

- O.B.C. 9.13. & 9.16.4.3.
- 4" (100mm) CONCRETE SLAB
- 4650psi (32MPa) COMPRESSIVE STRENGTH AFTER 28 DAYS FOR UNREINFORCED CONC. & W/ 5-8% AIR ENTRAINMENT - O.B.C. 9.3.1.6.
- 6" X 6" (W2.9 X W 2.9) WIRE MESH LOCATED NEAR MID-DEPTH OF SLAB
- 4" (100mm) OF COURSE GRANULAR MATERIAL
- ANY FILL UNDER SLAB, OTHER THAN COURSE CLEAN GRANULAR MATERIAL, SHALL BE COMPACTED.

PILASTERS:

- O.B.C. 9.15.3.5.
- PILASTER
 - CONCRETE N.B. - 4" X 12" (100mm X 300mm)
 - BLOCK N.B. - 4" X 12" (100mm X 300mm) BONDED & TIED TO WALL AS PER O.B.C. 9.20.1.1.2. TOP 7 7/8" (200mm) SOLID.
- OR
 - BEAM POCKET
 - 4" (100mm) INTO FDN. WALL W/ WIDTH TO MATCH BEAM SIZE.
 - 1/2" (13mm) SPACE AROUND WOOD BEAMS (O.B.C. 9.23.2.2.)
- STRUCTURAL COLUMNS
 - SIZES BASED ON COLUMN SUPPORTING BEAMS CARRYING LOADS FROM MORE THAN 2 WOOD FRAME FLOORS, WHERE THE LENGTHS OF JOISTS CARRIED BY SUCH BEAMS DO NOT EXCEED 16'-1" (4.9m) AND THE LIVE LOAD ON ANY FLOOR DOES NOT EXCEED 50psf (2.4kPa).

STEEL PIPE COLUMN:

- O.B.C. 9.15.3.4. & 9.17.3.
- FIXED COLUMN
 - MIN. 3 1/2" (90mm) DIA. W/ 3/16" (4.76mm) WALL THICKNESS
 - FOR STEEL BEAMS, CLIPS @ TOP & MIN. 6" X 4" X 1/4" (152mm X 100mm X 6.35mm) STEEL BTM. PLATE
 - FOR WOOD BEAMS, MIN. 4" X 4" X 1/4" (100mm X 100mm X 6.35mm) STEEL TOP & BTM. PLATES, OR TOP PLATE TO EXTEND MIN. WIDTH OF BEAM
 - ADJUSTABLE COLUMNS TO CONFORM TO CAN/CSG-8.7.2-M WHERE IMPOSED LOAD DOES NOT EXCEED 36 KN (O.B.C. 9.17.3.4.)
 - COL. SPACING: FTG SIZE:
 - 2 STOREY
 - MAX. 9'-10" (2997mm)
 - 34" X 34" X 16" (860mm X 860mm X 400mm)
 - 44" X 44" X 21" (1120mm X 1120mm X 530mm)
 - 3 STOREY
 - MAX. 9'-10" (2997mm)
 - 40" X 40" X 19" (1010mm X 1010mm X 480mm)
 - 51" X 51" X 24" (1295mm X 1295mm X 610mm)
 - WHERE COL. SITS ON FDN. WALL, USE 4" X 8" X 5/8" (100mm X 200mm X 16mm) STEEL PLATE WITH 2 5/8" (32mm) ANCHOR BOLTS

WOOD COLUMN:

- O.B.C. 9.17.4.1.
- 5 1/2" X 5 1/2" (140mm X 140mm) SOLID WOOD COLUMN.
- METAL SHOE ANCHORED TO FOOTING
- 25" X 25" X 12" (640mm X 640mm X 300mm) CONC. PAD (1 FLOOR SUPPORTED W/ 9'-10" COL. SPACING)
- 34" X 34" X 14" (860mm X 860mm X 360mm) CONC. PAD (2 FLOORS SUPPORTED W/ 9'-10" COL. SPACING)

BLOCK PARTY WALL BEAM END BEARING: (WOOD BEAM / GIRDER TRUSSES)

- 2" X 8" X 12" LEDGER BOARD FASTENED W/ 2/1 1/2" ANCHOR BOLTS @ 4" O.C.
- WHERE WOOD BEAMS BEAR ON FIREWALLS USE GENERAL NOTE 11 WHERE REQUIRED TO OBTAIN 5" SEPARATION DISTANCE BETWEEN ADJACENT BEAMS

BLOCK PARTY WALL BEAM END BEARING: (STEEL BEAM)

- 12" X 11" X 5/8" SIL. PLATE ON TOP OF SOLID CONCRETE BLOCK WITH 2-1/2" @ 8" ANCHOR BOLTS.

WALL ASSEMBLIES:

FOUNDATION WALL:

- O.B.C. 9.15.4.2.
- FOR WALLS NOT EXCEEDING 8'-2" (2500mm) IN LATERALLY SUPPORTED HEIGHT.
 - 8" (200mm) SOLID 2200psi (15MPa) CONCRETE
 - MAX. UNSUPPORTED HEIGHT OF 3'-11" (1200mm) & MAX. SUPPORTED HEIGHT OF 7'-0" (2150mm) MEASURED FROM GRADE TO FINISHED BASEMENT FLOOR.
 - FOR WALLS NOT EXCEEDING 9'-0" (2750mm) IN LATERALLY SUPPORTED HEIGHT.
 - 10" (250mm) SOLID 2200psi (15MPa) CONCRETE
 - MAX. UNSUPPORTED HEIGHT OF 4'-7" (1400mm) & MAX. SUPPORTED HEIGHT OF 8'-6" (2600mm) MEASURED FROM GRADE TO FINISHED BASEMENT FLOOR.
 - LATERAL SUPPORT PROVIDED BY ANCHORED SIL. PLATE TO JOISTS.
 - FOR CONDITIONS EXCEEDING THESE MAXIMUMS AN ALTERNATIVE IN CONFORMANCE TO O.B.C. 9.15.4.1 SHALL BE USED OR IT SHALL BE DESIGNED UNDER O.B.C. - PART 4
 - WALL SHALL EXTEND A MIN. 5 7/8" (150mm) ABOVE GRADE
 - INSULATE W/ R12 (RSI 2.11) FROM UNDERSIDE OF SUBFLOOR TO NOT MORE THAN 8" (200mm) ABOVE FINISHED FLOOR OF BASEMENT (ZONE 1, O.B.C. T.2.1.2.A.)
 - BACK FILL W/ NON-FROST SUSCEPTIBLE SOIL

REDUCTION OF THICKNESS:

- O.B.C. 9.15.4.7.
- WHERE THE TOP OF THE FOUNDATION WALL IS REDUCED IN THICKNESS TO ALLOW MASONRY FACING, THE MIN. REDUCED THICKNESS SHALL NOT BE LESS THAN 3 1/2" (90mm) THICK.
- TIE TO FACING MATERIAL WITH METAL TIES SPACED MAX. @ 7 7/8" (200mm) VERTICALLY O.C. & 2-11" (90mm) HORIZONTALLY.
- FILL SPACE BETWEEN WALL AND FACING SOLID W/ MORTAR
- WHERE WALL IS REDUCED FOR JOISTS, THE REDUCED THICKNESS SHALL BE MAX. 13-3/4" (350mm) HIGH & MIN. 3-1/2" (90mm) THICK

DAMP-PROOFING & WATERPROOFING:

- DAMP-PROOF OF THE EXTERIOR FACE OF WALL BELOW GRADE AS PER O.B.C. 9.13.2.
- WHERE INSULATION EXTENDS TO MORE THAN 4'-7" (1450mm) BELOW GRADE, A FDN. WALL DRAINAGE LAYER SHALL BE PROVIDED IN CONFORMANCE TO O.B.C. 9.14.2.1.12 (3) (4)
- FINISHED BASEMENT FLOOR HAVE INTERIOR DAMP-PROOFING EXTENDING FROM SLAB TO GRADE LEVEL & SHALL CONFORM TO O.B.C. 9.13.3.3.(3)
- WHERE HYDROSTATIC PRESSURE OCCURS, FDN. WALLS SHALL BE WATERPROOFED AS PER O.B.C. 9.13.3.
- WALLS THAT ARE WATERPROOFED DO NOT REQUIRE DAMP-PROOFING.

FOUNDATION WALLS @ UNSUPPORTED OPENINGS:

- 2-20M BARS IN TOP PORTION OF WALL (UP TO 8'-0" OPENING)
- 3-20M BARS IN TOP PORTION OF WALL (8'-0" TO 10'-0" OPENING)
- 4-20M BARS IN TOP PORTION OF WALL (10'-0" TO 15'-0" OPENING)
- BARS SPACED VERTICALLY AT INTERIOR FACE OF WALL
- BARS TO HAVE MIN. 2" (50mm) CONCRETE COVER
- BARS TO EXTEND 2'-0" (600mm) BEYOND BOTH SIDES OF OPENING.

FRAME WALL CONSTRUCTION:

- O.B.C. 9.23.
- SIDING OR STUCCO AS PER ELEVATIONS, MIN. 7 7/8" (200mm) FROM FINISHED GRADE (O.B.C. 9.28.1.4. & 9.27.1)
- WALL SHEATHING MEMBRANE AS PER O.B.C. 9.27.3.2.
- 1/4" (6mm) PLYWOOD (EXTERIOR TYPE) OR EQUIVALENT AS PER O.B.C. 9.23.16.
- 2" X 6" (38mm X 140mm) WOOD STUDS @ 16" (400mm) O.C.
- MIN. R22 (RSI 3.87) INSULATION (ZONE 1, O.B.C. T.2.1.2.A.)
- CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C. 9.25.3. & 9.25.4.
- 1/2" (12.7mm) GYPSUM BOARD
- NOTE - SUPPORT FOR 2 + 3 FLOORS ABOVE - O.B.C. 1.9.23.10.1. =
- FOR 3 FLOORS SUPPORTED ABOVE, 2" X 6" (38mm X 140mm) STUDS ARE REQUIRED TO BE SPACED @ 12" (300mm) O.C.

REQ. FOR FIRE RATING (LESS THAN 4'-0" LIMITING DISTANCE):

- O.B.C. 9.23.3. WALL = FW1b (STC = N/A, FIRE = 45 MIN)
- FOR 45 MINUTE FIRE RATED WALL REQUIREMENTS SUBSTITUTE THE FOLLOWING MATERIALS:
 - REPLACE R22 (RSI 3.87) INSULATION WITH R22 (RSI 3.87) ABSORPTIVE INSULATING MATERIAL WITH A MASS OF AT LEAST 4.8 kg/ sq.m.
 - REPLACE 1/2" (12.7mm) INTERIOR GYPSUM BOARD WITH 1/2" (12.7mm) TYPE 'X' GYPSUM BOARD.

REQ. FOR FIRE RATING (LESS THAN 2'-0" LIMITING DISTANCE):

- REFER TO REQUIREMENTS FOR LESS THAN 4'-0" LIMITING DISTANCE AND ADD/REPLACE THE FOLLOWING:
 - NON-COMBUSTIBLE SIDING OR STUCCO AS PER ELEVATIONS (REFER TO MANUFACTURER'S SPECIFICATIONS).
- OR
- VINYL SIDING IS PERMITTED PER O.B.C. 9.10.15.5.(3). OVER 1/2" (12.7mm) GYPSUM EXTERIOR SHEATHING WHICH REPLACES EXTERIOR PLYWOOD OR EQUIV.

ALTERNATE FRAME WALL CONSTRUCTION:

- O.B.C. 9.23.
- SIDING OR STUCCO AS PER ELEVATIONS, MIN. 7 7/8" (200mm) FROM FINISHED GRADE (O.B.C. 9.28.1.4. & 9.27.1)
- 1 1/2" (38mm) R8 (RSI 1.41) RIGID INSULATION W/ TAPED JOINTS (O.B.C. 9.23.2.4.)
- BRACE W/ CONT. 1/6 GAUGE STEEL T BRACES FROM TOP PLATE TO BTM. PLATE FOR THE FULL LENGTH OF WALL, OR CONT. 2" X 4" (38mm X 89mm) SOLID WOOD BLOCKING @ APPROXIMATELY 45 DEG. FROM TOP PLATE TO BTM. PLATE FOR FULL LENGTH OF WALL.
- 2" X 4" (38mm X 89mm) WOOD STUDS @ 16" (400mm) O.C. @ 12" (300mm) O.C. ON BOTTOM FLR. WHEN 3 STOREYS
- R14 (RSI 2.46) INSULATION (ZONE 1, O.B.C. T.2.1.2.A.)
- CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C. 9.25.3. & 9.25.4.
- 1/2" (12.7mm) GYPSUM BOARD
- NOTE - SUPPORT FOR 2 + 3 FLOORS ABOVE - O.B.C. 1.9.23.10.1. =
- FOR 2 FLOORS SUPPORTED ABOVE, 2" X 4" (38mm X 89mm) STUDS ARE REQUIRED TO BE SPACED @ 12" (300mm) O.C.
- FOR 3 FLOORS SUPPORTED ABOVE, 2" X 6" (38mm X 140mm) STUDS ARE REQUIRED TO BE SPACED @ 12" (300mm) O.C.

REQ. FOR FIRE RATING (LESS THAN 4'-0" LIMITING DISTANCE):

- O.B.C. 9.23.3. WALL = FW1b (STC = N/A, FIRE = 45 MIN)
- FOR 45 MINUTE FIRE RATED WALL REQUIREMENTS SUBSTITUTE AND/OR ADD THE FOLLOWING MATERIALS:
 - ADD 1/4" (6mm) PLYWOOD (EXTERIOR TYPE) OR EQUIVALENT AS PER O.B.C. 9.23.16. BETWEEN RIGID INSULATION AND WOOD STUD.
 - REPLACE R14 (RSI 2.46) INSULATION WITH R14 (RSI 2.46) ABSORPTIVE INSULATING MATERIAL WITH A MASS OF AT LEAST 2.8 kg/ sq.m.
 - REPLACE 1/2" (12.7mm) GYPSUM BD. W/ 1/2" (12.7mm) TYPE 'X' GYPSUM BD.

REQ. FOR FIRE RATING (LESS THAN 2'-0" LIMITING DISTANCE):

- REFER TO REQUIREMENTS FOR LESS THAN 4'-0" LIMITING DISTANCE AND ADD/REPLACE THE FOLLOWING:
 - NON-COMBUSTIBLE SIDING OR STUCCO AS PER ELEVATIONS (REFER TO MANUFACTURER'S SPECIFICATIONS).
- OR
- VINYL SIDING IS PERMITTED PER O.B.C. 9.10.15.5.(3). OVER SHEATHING PAPER OVER 1/2" (12.7mm) GYPSUM EXTERIOR SHEATHING ON EXTERIOR SIDE OF RIGID INSULATION

FRAME WALL CONSTRUCTION @ GARAGE:

- O.B.C. 9.23.
- SIDING OR STUCCO AS PER ELEVATIONS, MIN. 7 7/8" (200mm) FROM FINISHED GRADE (O.B.C. 9.28.1.4. & 9.27.1)
- WALL SHEATHING MEMBRANE AS PER O.B.C. 9.27.3.2.
- 1/4" (6mm) PLYWOOD (EXTERIOR TYPE) OR EQUIVALENT AS PER O.B.C. 9.23.16.
- 2" X 4" (38mm X 89mm) WOOD STUDS @ 16" (400mm) O.C.
- 1/2" (12.7mm) GYPSUM BOARD
- NOTE - SUPPORT FOR 2 + 3 FLOORS ABOVE - O.B.C. 1.9.23.10.1. =
- FOR 2 FLOORS SUPPORTED ABOVE, 2" X 4" (38mm X 89mm) STUDS ARE REQUIRED TO BE SPACED @ 12" (300mm) O.C.
- FOR 3 FLOORS SUPPORTED ABOVE, 2" X 6" (38mm X 140mm) STUDS ARE REQUIRED TO BE SPACED @ 12" (300mm) O.C.

REQ. FOR FIRE RATING (LESS THAN 4'-0" LIMITING DISTANCE):

- O.B.C. 9.23.3. WALL = FW1b (STC = N/A, FIRE = 45 MIN)
- FOR 45 MINUTE FIRE RATED WALL REQUIREMENTS SUBSTITUTE AND/OR ADD THE FOLLOWING MATERIALS:
 - ADD ABSORPTIVE MATERIAL WITH A MASS OF AT LEAST 2.8 kg/ sq.m.
 - REPLACE 1/2" (12.7mm) GYPSUM BD. W/ 1/2" (12.7mm) TYPE 'X' GYPSUM BD.

REQ. FOR FIRE RATING (LESS THAN 2'-0" LIMITING DISTANCE):

- REFER TO REQUIREMENTS FOR LESS THAN 4'-0" LIMITING DISTANCE AND ADD/REPLACE THE FOLLOWING:
 - NON-COMBUSTIBLE SIDING OR STUCCO AS PER ELEVATIONS (REFER TO MANUFACTURER'S SPECIFICATIONS).
- OR
- VINYL SIDING IS PERMITTED PER O.B.C. 9.10.15.5.(3). OVER SHEATHING PAPER OVER 1/2" (12.7mm) GYPSUM EXTERIOR SHEATHING WHICH REPLACES EXTERIOR PLYWOOD OR EQUIV.

BRICK VENEER CONSTRUCTION:

- O.B.C. 9.23.
- 3-1/2" (90mm) FACE BRICK OR 4" (100mm) STONE @ 36-1" (11m) MAX. HEIGHT
- MIN. 0.03" (0.76mm) THICK, 7/8" (22mm) WIDE CORROSION RESISTANT STRAPS @ MAX. 15 3/4" (400mm) O.C. HORIZONTAL & 23 5/8" (600mm) O.C. VERTICAL SPACING
- PROVIDE WEEP HOLES @ 2'-7" (800mm) O.C. @ BTM. COURSE & OVER OPENINGS
- BASE FLASHING UP TO 5 7/8" (150mm) BEHIND WALL SHEATHING MEMBRANE (O.B.C. 9.20.13.6.(2))
- BRICK OR STONE SILLS UNDER OPENINGS, FLASHING UNDER
- 1" (25mm) AIR SPACE
- WALL SHEATHING MEMBRANE AS PER O.B.C. 9.27.3.2.
- 1/4" (6mm) PLYWOOD (EXTERIOR TYPE) OR EQUIVALENT AS PER O.B.C. 9.23.16.
- 2" X 6" (38mm X 140mm) WOOD STUDS @ 16" (400mm) O.C.
- MIN. R22 (RSI 3.87) INSULATION (ZONE 1, O.B.C. T.2.1.2.A.)
- CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C. 9.25.3. & 9.25.4.
- 1/2" (12.7mm) GYPSUM BOARD
- NOTE - SUPPORT FOR 3 FLOORS ABOVE - O.B.C. 1.9.23.10.1. =
- FOR 3 FLOORS SUPPORTED ABOVE, 2" X 6" (38mm X 140mm) STUDS ARE REQUIRED TO BE SPACED @ 12" (300mm) O.C.

REQ. FOR FIRE RATING (LESS THAN 4'-0" LIMITING DISTANCE):

- O.B.C. 9.23.3. WALL = FW1b (STC = N/A, FIRE = 45 MIN)
- FOR 45 MINUTE FIRE RATED WALL REQUIREMENTS SUBSTITUTE AND/OR ADD THE FOLLOWING MATERIALS:
 - REPLACE R22 (RSI 3.87) INSULATION WITH R22 (RSI 3.87) ABSORPTIVE INSULATING MATERIAL WITH A MASS OF AT LEAST 4.8 kg/ sq.m.
 - REPLACE 1/2" (12.7mm) GYPSUM BD. W/ 1/2" (12.7mm) TYPE 'X' GYPSUM BD.

ALTERNATE BRICK VENEER CONSTRUCTION:

- O.B.C. 9.23.
- 3-1/2" (90mm) FACE BRICK OR 4" (100mm) STONE @ 36-1" (11m) MAX. HEIGHT
- MIN. 0.03" (0.76mm) THICK, 7/8" (22mm) WIDE CORROSION RESISTANT STRAPS @ MAX. 15 3/4" (400mm) O.C. HORIZONTAL & 23 5/8" (600mm) O.C. VERTICAL SPACING
- PROVIDE WEEP HOLES @ 2'-7" (800mm) O.C. @ BTM. COURSE & OVER OPENINGS
- BASE FLASHING UP TO 5 7/8" (150mm) BEHIND WALL SHEATHING MEMBRANE (O.B.C. 9.20.13.6.(2))
- BRICK OR STONE SILLS UNDER OPENINGS, FLASHING UNDER
- 1" (25mm) AIR SPACE
- 1 1/2" (38mm) R8 (RSI 1.41) RIGID INSULATION W/ TAPED JOINTS (O.B.C. 9.23.2.4.)
- 2" X 4" (38mm X 89mm) WOOD STUDS @ 16" (400mm) O.C. @ 12" (300mm) O.C. ON BOTTOM FLR. WHEN 3 STOREYS
- BRACE W/ CONT. 1/6 GAUGE STEEL T BRACES FROM TOP PLATE TO BTM. PLATE FOR THE FULL LENGTH OF WALL, OR CONT. 2" X 4" (38mm X 89mm) SOLID WOOD BLOCKING @ APPROXIMATELY 45 DEG. FROM TOP PLATE TO BTM. PLATE FOR FULL LENGTH OF WALL
- R14 (RSI 2.46) INSULATION
- CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C. 9.25.3. & 9.25.4.
- 1/2" (12.7mm) GYPSUM BOARD
- NOTE - SUPPORT FOR 2 + 3 FLOORS ABOVE - O.B.C. 1.9.23.10.1. =
- FOR 2 FLOORS SUPPORTED ABOVE, 2" X 4" (38mm X 89mm) STUDS ARE REQUIRED TO BE SPACED @ 12" (300mm) O.C.
- FOR 3 FLOORS SUPPORTED ABOVE, 2" X 6" (38mm X 140mm) STUDS ARE REQUIRED TO BE SPACED @ 12" (300mm) O.C.

REQ. FOR FIRE RATING (LESS THAN 4'-0" LIMITING DISTANCE):

- O.B.C. 9.23.3. WALL = FW1b (STC = N/A, FIRE = 45 MIN)
- FOR 45 MINUTE FIRE RATED WALL REQUIREMENTS SUBSTITUTE AND/OR ADD THE FOLLOWING MATERIALS:
 - ADD 1/4" (6mm) PLYWOOD (EXTERIOR TYPE) OR EQUIVALENT AS PER O.B.C. 9.23.16. BETWEEN RIGID INSULATION AND WOOD STUD.
 - REPLACE R14 (RSI 2.46) INSULATION WITH R14 (RSI 2.46) ABSORPTIVE INSULATING MATERIAL WITH A MASS OF AT LEAST 2.8 kg/ sq.m.
 - REPLACE 1/2" (12.7mm) GYPSUM BD. W/ 1/2" (12.7mm) TYPE 'X' GYPSUM BD.

BRICK VENEER CONSTRUCTION @ GARAGE:

- O.B.C. 9.23.
- 3-1/2" (90mm) FACE BRICK OR 4" (100mm) STONE @ 36-1" (11m) MAX. HEIGHT
- MIN. 0.03" (0.76mm) THICK, 7/8" (22mm) WIDE CORROSION RESISTANT STRAPS @ MAX. 15 3/4" (400mm) O.C. HORIZONTAL & 23 5/8" (600mm) O.C. VERTICAL SPACING
- PROVIDE WEEP HOLES @ 2'-7" (800mm) O.C. @ BTM. COURSE & OVER OPENINGS
- BASE FLASHING UP TO 5 7/8" (150mm) BEHIND WALL SHEATHING MEMBRANE (O.B.C. 9.20.13.6.(2))
- BRICK OR STONE SILLS UNDER OPENINGS, FLASHING UNDER
- 1" (25mm) AIR SPACE
- WALL SHEATHING MEMBRANE AS PER O.B.C. 9.27.3.2.
- 1/4" (6mm) PLYWOOD (EXTERIOR TYPE) OR EQUIVALENT AS PER O.B.C. 9.23.16.
- 2" X 4" (38mm X 89mm) WOOD STUDS @ 16" (400mm) O.C.
- 1/2" (12.7mm) GYPSUM BOARD
- NOTE - SUPPORT FOR 2 + 3 FLOORS ABOVE - O.B.C. 1.9.23.10.1. =
- FOR 2 FLOORS SUPPORTED ABOVE, 2" X 4" (38mm X 89mm) STUDS ARE REQUIRED TO BE SPACED @ 12" (300mm) O.C.
- FOR 3 FLOORS SUPPORTED ABOVE, 2" X 6" (38mm X 140mm) STUDS ARE REQUIRED TO BE SPACED @ 12" (300mm) O.C.

THESE DRAWINGS ARE NOT TO BE SCALED. ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR PRIOR TO COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES MUST BE REPORTED DIRECTLY TO RN DESIGN LTD.

CLIENT SPECIFIC REVISIONS

I, ERIC SCHNEIDER DECLARE THAT I HAVE REVIEWED AND TAKEN DESIGN RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF RN DESIGN LTD. UNDER DIVISION C, PART 3 SUBSECTION 3.2.4 OF THE BUILDING CODE. I AM QUALIFIED AND THE FIRM IS REGISTERED IN THE APPROPRIATE CLASSES / CATEGORIES.

QUALIFIED DESIGNER BCIN: 30840
FIRM BCIN: 24995
DATE: MAR-13-15

SIGNATURE:

E. Schneider

client
Senator Homes

location
Vaughan

project
BATHURST 9130

marketing name
Bedford

#	revisions	date	dwn	chk	#	revisions	date	dwn	chk
1	ISSUED FOR CLIENT REVIEW	20-Jun-14	alc	et	5				
2	ISSUED FINAL	13-Mar-15	sh	sh	6				
3					7				
4					8				

ARN design
Imagine • Inspire • Create

model
TH-22-2

scale
3/16" = 1'0"

project #
12073

page

D1

- REQ. FOR FIRE RATING (LESS THAN 4'-0" LIMITING DISTANCE):
- O.B.C. SB-3 WALL = EW1b (STC = N/A, FIRE = 45 MIN)
FOR 45 MINUTE FIRE RATED WALL REQUIREMENT'S SUBSTITUTE AND/OR ADD THE FOLLOWING MATERIALS:
-ADD R15 (RSI 2.64) ABSORPTIVE MATERIAL WITH A MASS OF AT LEAST 2.8 kg/sq.m.
-REPLACE 1/2" (12.7mm) GYPSUM BD. W/ 1/2" (12.7mm) TYPE 'X' GYPSUM BD.
- 17) INTERIOR STUD WALLS:**
O.B.C. 1.9.23.10.1.
-2" X 4" (38mm X 89mm) WOOD STUDS @ 16" (400mm) O.C. OR 2" X 6" (38mm X 140mm) WOOD STUDS @ 16" (400mm) O.C. W/ DOUBLE 2" X 4" OR 2" X 6" TOP PLATES AND SINGLE BOTTOM PLATE
-1/2" (12.7mm) GYPSUM BOARD BOTH SIDES.
- 18) BEARING STUD WALL (BASEMENT):**
-2" X 4" (38mm X 89mm) WOOD STUDS @ 16" (400mm) O.C. OR 2" X 6" (38mm X 140mm) WOOD STUDS @ 16" (400mm) O.C. W/ DBL 2" X 4" OR 2" X 6" TOP PLATE
-2" X 4" OR 2" X 6" BOTTOM PLATE ON DAMPROOFING MATERIAL
-1/2" (12.7mm) GYPSUM BOARD BOTH SIDES
-1/2" (12.7mm) DIA. ANCHOR BOLTS @ 7'-10" (2400mm) O.C.
-FOOTING AS PER GENERAL NOTE #2 W/ 4" CONC. CURB
- 19) PARTY WALL - BLOCK:**
O.B.C. SB-3 WALL = B6e (STC = 57, FIRE = 2 HR)
-MIN. 1HR FIRE-RESISTANCE RATING CONTINUOUS FROM TOP OF FOOTINGS TO THE U/S OF ROOF DECK
-SPACE BETWEEN TOP OF WALL & ROOF DECK SHALL BE TIGHTLY FILLED W/ MINERAL WOOL OR NONCOMBUSTIBLE MATERIAL & CAULKED TO PREVENT SMOKE PASSAGE
-1/2" (12.7mm) GYPSUM BOARD W/ TAPED JOINTS BOTH SIDES
-2" X 2" (38mm X 38mm) WOOD STRAPPING @ 24" (600mm) O.C. BOTH SIDES
-ABSORPTIVE MATERIAL ON BOTH SIDES FILLING A MINIMUM OF 90% OF THE CAVITY
-7 1/2" (190mm) HOLLOW BLOCK (NORMAL WEIGHT AGGREGATE)
-STAGGER JOISTS & BEAMS MIN. 3 1/2" (90mm) @ PARTY WALLS AS PER O.B.C. 9.10.9.1(1) & TABLE 2.1.1 SB-2
-ACUSTICAL SEALANT AS PER O.B.C. SB-3 (NOTE (2) TO TABLE 1)
- 19a) PARTY WALL - BLOCK (AGAINST GARAGE):**
O.B.C. SB-3 WALL = B5c (STC = 51, FIRE = 2 HR)
-MIN. 1HR FIRE-RESISTANCE RATING CONTINUOUS
-1/2" (12.7mm) GYPSUM BOARD
-CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C. 9.25.3 & 9.25.4.
-2" X 4" (38mm X 89mm) WOOD STRAPPING @ 16" (400mm) O.C.
-R20 (RSI 3.52) RIGID INSULATION
-7 1/2" (190mm) HOLLOW BLOCK (NORMAL WEIGHT AGGREGATE)
-1/2" (12.7mm) GYPSUM BOARD @ WALL & U/S OF CEILING BETWEEN HOUSE AND GARAGE
-TAPE AND SEAL ALL JOINTS GAS TIGHT
- REQ. INSULATION VALUES:
- | | |
|--|---------|
| INSULATION VALUES PROVIDED BY CAN/CSA-F280-M90 | |
| -RIGID INSULATION | = 20.00 |
| -LOW DENSITY CONCRETE BLOCK | = 1.70 |
| -WOOD FRAME W/ GYPSUM | = 2.72 |
| -AIR FILM - MOVING | = 0.68 |
| -AIR FILM - STILL | = 0.17 |
| TOTAL "R" VALUE | = 25.27 |

- 19b) FIREWALL:**
O.B.C. 9.10.11.1 & 3.1.1.0. & SB-3 WALL = B6e (STC = 57, FIRE = 2 HR)
-ONE FIREWALL IS REQUIRED FOR EVERY 640 S.F. (60 SQ.M) OF BUILDING AREA. O.B.C. 1.3.2.4.7.
-1/2" (12.7mm) GYPSUM BOARD W/ TAPED JOINTS
-2" X 2" (38mm X 38mm) WOOD STRAPPING @ 24" (600mm) O.C. ON BOTH SIDES OF WALL
-SOUND ABSORPTIVE MATERIAL EACH SIDE FILLING 90% OF THE CAVITY
-7 1/2" (190mm) CONC. BLOCK, MIN. 2 HR. FIRE-RESISTANT RATING
-EVERY FIREWALL SHALL BE CONTINUOUS THROUGH ALL BUILDING STOREYS
-STAGGER JOISTS & BEAMS MIN. 5" (130mm) @ FIRE WALLS AS PER O.B.C. 9.10.9.1(1) & TABLE 2.1.1 SB-2
-ACUSTICAL SEALANT AS PER O.B.C. SB-3 (NOTE (2) TO TABLE 1)
-PROTUDER FAST FASCIA @ EAVES W/ BRICK CORRELLING
-EXTEND 5/8" (150mm) ABOVE ROOF SURFACES & HAVE ALUMINUM CAP W/ THROUGH WALL FLASHING PER O.B.C. 3.1.10.4.1(1)
-WHERE THE DIFFERENCE IN HEIGHT BETWEEN ADJACENT ROOFS IS GREATER THAN 9'-10" (3m), WALL NEED NOT EXTEND PAST UPPER ROOF SURFACE PER O.B.C. 3.1.10.4.1(2)
- 20) PARTY WALL - FOUNDATION:**
O.B.C. 9.15.4.2.
-7 7/8" (200mm) SOLID CONC. FOUNDATION WALL @ 2200psi (15MPa)
-COMPRESSIVE STRENGTH AFTER 28 DAYS
-FOUNDATION WALL TO REST ON FOOTING PER GENERAL NOTE #2
- 21) PARTY WALL - WOOD STUD:**
O.B.C. SB-3 WALL = W13a (STC = 57, FIRE = 1 HR)
-MIN. 1HR FIRE-RESISTANCE RATING CONTINUOUS FROM TOP OF FOOTINGS TO THE U/S OF ROOF DECK
-2 ROWS 2X4" (38mm X 89mm) STUDS @ 16" (400mm) O.C. W/ SEPARATE 2" X 4" (38mm X 89mm) BOTTOM PLATE & SEPARATE DOUBLE 2" X 4" (38mm X 89mm) TOP PLATES
-SOUND ABSORPTIVE MATERIAL ON BOTH SIDES FILLING A MINIMUM OF 90% OF THE CAVITY.
-5/8" (16mm) TYPE 'X' GYPSUM BOARD BOTH SIDES W/ JOINTS TAPED & FILLED.
-ACUSTICAL SEALANT AS PER O.B.C. SB-3 (NOTE (2) TO TABLE 1)
NOTE - SUPPORT FOR 2 + 3 FLOORS ABOVE - O.B.C. 1.9.23.10.1. =
-FOR 2 FLOORS SUPPORTED ABOVE, 2" X 4" (38mm X 89mm) STUDS ARE REQUIRED TO BE SPACED @ 12" (300mm) O.C.
-FOR 3 FLOORS SUPPORTED ABOVE, 2" X 6" (38mm X 140mm) STUDS ARE REQUIRED TO BE SPACED @ 12" (300mm) O.C.

- 22) GARAGE WALL & CEILING:**
O.B.C. 9.10.9.16.1(3)
-1/2" (12.7mm) GYPSUM BOARD ON BOTH SIDES OF WALL & U/S OF CEILING BETWEEN HOUSE AND GARAGE
-TAPE AND SEAL ALL JOINTS GAS TIGHT
-R22 (RSI 3.87) INSULATION IN WALLS
-R31 (RSI 5.41) INSULATION IN CEILINGS W/ FLOOR ABOVE
-CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C. 9.25.3. & 9.25.4., FOR FLOOR ABOVE
-INSULATION AROUND DUCTS AND PIPING NOT TO ENCRATCH MIN. REQUIRED GARAGE AREA (REFER TO MUNICIPAL STANDARDS).
-1/2" (12.7mm) GYPSUM BOARD
-ROOF FRAMING MEMBERS ARE FASTENED TO TOP PLATES WITH 4 - 3 1/4" (82mm) TOE NAILS
-BOTTOM PLATES ARE FASTENED TO FLOOR JOISTS, BLOCKING OR RIN JOIST WITH 3 1/4" (82mm) NAILS AT 7 7/8" (200mm) O.C.
- 22a) WALLS ADJACENT TO ATTIC SPACE:**
-1/2" (12.7mm) GYPSUM BOARD
-CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C. 9.25.3. & 9.25.4.
-2" X 4" (38mm X 140mm) WOOD STUDS @ 16" (400mm) O.C.
-R22 (RSI 3.87) INSULATION
-1/2" (12.7mm) GYPSUM BOARD OR 1/4" (6mm) PLYWOOD SHEATHING ON ATTIC SIDE.
-ATTIC ACCESS TO BE PROVIDED AS PER O.B.C. 9.19.2.1.
- 23) DOUBLE VOLUME WALLS:**
O.B.C. 9.23.10.1.
-3/8" (9.5mm) PLYWOOD, OSB OR WATERBOARD SHEATHING
-REFER TO PLAN FOR STUD SPECIFICATION
-STUDS FASTENED AT TOP & BOTTOM WITH 3/3 1/4" (82mm) TOE NAILS
-DOUBLE TOP PLATES FASTENED TOGETHER WITH 3" (76mm) AT 7 7/8" (200mm) O.C.
-SOLID BRIDGING AT 3'-11" (1200mm) O.C.
-MIN. R22 (RSI 3.87) INSULATION (ZONE 1, O.B.C. 1.2.1.1.2.A.)
-CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE WITH O.B.C. 9.25.3. & 9.25.9.

- 24) EXPOSED FLOOR:**
-FLOOR AS PER NOTE # 28
-CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C. 9.25.3. & 9.25.4.
-R31 (RSI 5.46) INSULATION
-VENTED ALUMINUM SOFFIT
- 24c) SUNKEN FINISHED AREAS:**
-USE SOLID BUILT-UP WOOD BEARING POST TO SUPPORT SUNKEN AREA AT FOUNDATION WALLS, EXTEND FOOTINGS TO SUPPORT POSTS.
-WHERE GRADING CONDITIONS WILL ALLOW, CHECK FOUNDATION WALLS INSTEAD OF USING BEARING POSTS.
-FLOOR STRUCTURE AS PER NOTE # 28.
- 25) DOUBLE MASONRY WYTHE WALL:**
O.B.C. 9.20.8.2.
-3 1/2" MASONRY VENEER ON 2" MORTAR JOINT ON 3 1/2" MASONRY VENEER
-WYTHES TO BE TIED W/ METAL TIES INSTALLED AS PER O.B.C. 9.20.9.4.
-SILL PLATE REQUIRED FOR ROOF AND CEILING FRAMING MEMBERS
-6" SILL W/ 2" BEARING ON EACH SIDE & ANCHOR BOLTS @ 4'-0" O.C.
NOTE: MASONRY TO BE SOLID & MORTAR JOINT FILLED SOLID FOR FLOOR JOISTS BEARING ON WYTHES. FLOOR JOISTS ARE NOT TO PROJECT INTO CAVITY AREA
- 25c) CORREL MASONRY VENEER:**
-MASONRY VENEER TO BE CORBELLED AS PER O.B.C. 9.20.12.3.1(1)
- FLOOR ASSEMBLIES:**
- 26) SILL PLATE:**
O.B.C. 9.23.7.
-2" X 4" (38mm X 89mm) PLATE
-1/2" (12.7mm) DIA. ANCHOR BOLTS @ 7'-10" (2400mm) O.C. FASTENED TO PLATE W/ NUTS AND WASHERS & SHALL BE EMBEDDED NOT LESS THAN 4" (100mm) INTO FOUNDATION WALL
-SILL PLATE TO BE CAULKED, OR PLACED ON A LAYER NOT LESS THAN 1" (25mm) THICK BEFORE COMPRESSION, OR FOAM GASKET, OR PLACED ON FULL BED OF MORTAR.
- 27) BRIDGING & STRAPPING:**
O.B.C. 9.23.9.4.
a) STRAPPING
-1" X 3" (19mm X 64mm) NAILED TO U/S OF JOISTS @ MAX. 6'-11" (2100mm) O.C.
-FASTENED TO SILL OR HEADER @ ENDS
b) BRIDGING
-1" X 3" (19mm X 64mm) OR 2" X 2" (38mm X 38mm) CROSS BRIDGING @ MAX. 6'-11" (2100mm) O.C.
c) BRIDGING & STRAPPING
-a) & b) USED TOGETHER OR
-1 1/2" (38mm) SOLID BLOCKING @ MAX. 6'-11" (2100mm) O.C. USED WITH STRAPPING (a)
d) FURRING OR PANEL TYPE CEILING
-STRAPPING NOT REQUIRED IF FURRING STRIPS OR PANEL TYPE CEILING FINISH IS ATTACHED DIRECTLY TO JOISTS.
- 28) FLOOR ASSEMBLY:**
O.B.C. 9.23.14.3, 9.23.14.4
5/8" (15.9mm) WAFERBOARD (R-1 GRADE) OR EQUIVALENT
-FLOOR JOISTS AS PER FLOOR PLANS
- 29) PORCH SLABS ABOVE COLD CELLAR:**
O.B.C. 9.39.1.4.
-REINFORCED CONCRETE SLABS ABOVE COLD CELLARS THAT ARE SUPPORTED ON FOUNDATION WALLS NOT TO EXCEED 8'-2"
-4 7/8" (125mm) 4650 psi (32 MPa) CONC. SLAB WITH 5 TO 8% AIR ENTRAINMENT
-REINFORCE WITH 10M BARS @ 7 7/8" (200mm) EACH WAY
-1 1/4" (30mm) CLEAR COVER FROM THE BOTTOM OF THE SLAB
-3" (75mm) END BEARING ON FOUNDATION WALL
-23 5/8" (600mm) X 23 5/8" (600mm) 10M DOWELS @ 23 5/8" (600mm) O.C.
- 30) EXTERIOR BALCONY ASSEMBLY:**
-1 1/4" X 3 1/2" PRESSURE TREATED DECKING W/ 1/4" SPACING
-2X4" WOOD PURLINS [CUT DIAGONALLY] @ 12" O.C. LAYING UNFASTENED ON SINGLE PLY WATERPROOF ROOF MEMBRANE OR EQUIVALENT ON 5/8" (15.9mm) EXTERIOR GRADE PLYWOOD SHEATHING ON 2X4" WOOD PURLINS [CUT DIAGONALLY] @ 12" O.C. DIRECTLY ON 2X8" ROOF JOISTS @ 12" O.C. [OR AS NOTED ON PLAN]
-EXTERIOR GUARDS AS PER #36a
-SLOPE ASSEMBLY MINIMUM 2% TO ROOF SCUPPER
REQUIRED FOR OVER HEATED SPACES:
-ADD 2X2" (38mm X 38mm) CROSS PURLINS @ 16" (400mm) O.C. FOR VENTILATION OVER JOISTS (OBC 9.19.1.2. VENTING NOT LESS THAN 1/150 OF CEILING AREA)
-ADD R31 (RSI 5.46) INSULATION BETWEEN JOISTS
-ADD CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C. 9.25.3. & 9.25.4.
-ADD 1/2" (12.7mm) GYPSUM BOARD W/ PAINTED CEILING OR
-ADD 5/8" (15.9mm) GYPSUM BOARD W/ TEXTURED CEILING (O.B.C. 1.9.29.5.3.)

- EXTERIOR FLAT ROOF ASSEMBLY:**
-SINGLE PLY WATERPROOF ROOF MEMBRANE OR EQUIVALENT
-INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
-1/4" EXTERIOR GRADE WOOD PANEL TYPE UNDERLAY TAPERED PURLINS SLOPED MIN. 2% TO ROOF SCUPPER.
-3/8" EXTERIOR GRADE PLYWOOD SHEATHING ON
-2X8" ROOF JOISTS @ 12" O.C. [OR AS NOTED ON PLAN]
REQUIRED FOR OVER HEATED SPACES:
-ADD 2X2" (38mm X 38mm) CROSS PURLINS @ 16" (400mm) O.C. FOR VENTILATION OVER JOISTS (OBC 9.19.1.2. VENTING NOT LESS THAN 1/150 OF CEILING AREA)
-ADD R31 (RSI 5.46) INSULATION BETWEEN JOISTS
-ADD CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C. 9.25.3. & 9.25.4.
-ADD 1/2" (12.7mm) GYPSUM BOARD W/ PAINTED CEILING OR
-ADD 5/8" (15.9mm) GYPSUM BOARD W/ TEXTURED CEILING (O.B.C. 1.9.29.5.3.)
- ROOF ASSEMBLIES**
- 31) TYPICAL ROOF:**
O.B.C. 9.26.
-NO. 210 (30. SKG/m2) ASPHALT SHINGLES
-FOR ROOFS BETWEEN 4:12 & 8:12 PITCH PROVIDE EAVES PROTECTION TO EXTEND UP THE ROOF SLOPE MIN. 2'-11" (900mm) FROM EDGE TO A LINE NOT LESS THAN 12" (300mm) PAST THE INSIDE FACE OF EXTERIOR WALL
-EAVES PROTECTION LAID BENEATH STARTER STRIP.
-EAVE PROTECTION NOT REQUIRED OVER UNHEATED SPACES.
-STARTER STRIP AS PER O.B.C. 9.26.7.2.
-STARTER STRIP NOT REQUIRED AS PER O.B.C. 9.26.7.2.1(3)
-3/8" (10mm) PLYWOOD SHEATHING OR OSB (0-2 GRADE) WITH "H" CLIPS
-APPROVED WOOD TRUSSES @ 24" (600mm) O.C. (REFER TO MANUFACTURER'S LAYOUT)
-TRUSS BRACING AS PER TRUSS MANUFACTURER
-EAVESTROUGH ON PERFINISHED FASCIA AND VENTED SOFFIT (VINYL OR ALUMINUM)
-ATTIC VENTILATION 1:300 OF INSULATED CEILING AREA WITH, 50% AT SOFFIT.
- 32) CEILING:**
-R50 (RSI 8.8) INSULATION
-CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C. 9.25.3. & 9.25.4.
-1/2" (12.7mm) GYPSUM BOARD W/ PAINTED CEILING OR
-5/8" (15.9mm) GYPSUM BOARD W/ TEXTURED CEILING (O.B.C. 1.9.29.5.3.)
- 32a) VAULTED OR CATHEDRAL CEILING:**
O.B.C. 9.26. & TABLE A4
-NO. 210 (30. SKG/m2) ASPHALT SHINGLES
-FOR ROOFS BETWEEN 4:12 & 8:12 PITCH PROVIDE EAVES PROTECTION TO EXTEND UP THE ROOF SLOPE MIN. 2'-11" (900mm) FROM EDGE TO A LINE NOT LESS THAN 12" (300mm) PAST THE INSIDE FACE OF EXTERIOR WALL
-EAVES PROTECTION LAID BENEATH STARTER STRIP.
-EAVE PROTECTION NOT REQUIRED OVER UNHEATED SPACES OR WHERE ROOF SLOPES ARE 8:12 OR GREATER PER O.B.C. 9.26.5.1.
-STARTER STRIP AS PER O.B.C. 9.26.7.2.
-STARTER STRIP NOT REQUIRED AS PER O.B.C. 9.26.7.2.1(3)
-3/8" (10mm) PLYWOOD SHEATHING OR OSB (0-2 GRADE) WITH "H" CLIPS.

- 2X8" (38mm X 184mm) @ 16" O.C. W/ 2X2" (38mm X 38mm) CROSS PURLINS @ 24" O.C. MAX. SPAN 13'-3" (4050mm) OR
-7X10" (38mm X 259mm) @ 16" O.C. W/ 2X2" (38mm X 38mm) CROSS PURLINS @ 24" O.C. MAX. SPAN 17'-0" (5180mm)
-R31 (RSI 5.46) INSULATION
-MIN. 3" CLEARANCE FROM U/S OF ROOF SHEATHING TO INSULATION
-CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE WITH O.B.C. 9.25.3. & 9.25.4.
-1/2" (12.7mm) GYPSUM BOARD
- 33) CONVENTIONAL FRAMING:**
O.B.C. TABLE A6 OR A7
-2" X 6" (38mm X 140mm) RAFTERS @ 16" (400mm) O.C. MAX. SPAN 12'-9" (3890mm)
-2X4" (38mm X 89mm) COLLAR TIES AT MIDSPANS
-CEILING JOISTS TO BE 2" X 6" (38mm X 140mm) @ 16" (400mm) O.C. UNLESS OTHERWISE NOTED.
-HIP & VALLEY RAFTERS TO BE MIN. 2" (50mm) LARGER THAN COMMON RAFTERS & MIN. 1 1/2" (38mm) THICK.
- 34) ATTIC ACCESS HATCH:**
O.B.C. 9.19.2.1.
-19 3/4" X 27 1/2" (500mm X 700mm) ATTIC HATCH WITH WEATHERSTRIPPING & BACKED W/ R20 (RSI 3.52) INSULATION.
- GENERAL:**
- 35) PRIVATE STAIRS:**
O.B.C. 9.8.4.
-MAX. RISE = 7 7/8" (200mm)
-MIN. RUN = 8-1/4" (210mm)
-MIN. TREAD = 9-1/4" (235mm)
-MAX. NOSING = 1" (25mm)
-MIN. HEADROOM = 6'-5" (1950mm)
-MIN. WIDTH = 2'-10" (860mm)
(BETWEEN WALL FACES)
-MIN. WIDTH = 2'-11" (900mm)
(EXIT STAIRS, BETWEEN GUARDS)
-ANGLED TREADS:
-MIN. RUN = 5 7/8" (150mm)
-MIN. AVG. RUN = 7 7/8" (200mm)
-FINISHED RAILING ON WOOD PICKETS MAX. 4" BETWEEN PICKETS
-EXTERIOR CONC. STEPS TO HAVE MIN. 9 1/4" (235mm) TREAD & MAX. 7 7/8" (200mm) RISE
-FOUND. WALL REQUIRED WHEN NUMBER OF RISERS EXCEEDS 2
-FIG. FOR FOUND. WALL TO BE MIN. 4'-0" (1220mm) BELOW GRADE

- HANDRAILS:**
O.B.C. 9.8.7
-ONE HANDRAIL REQUIRED WHERE STAIR WIDTH IS LESS THAN 3'-7" (1100mm)
-TWO HANDRAILS REQUIRED WHERE STAIR WIDTH EXCEEDS 3'-7" (1100mm)
-ONE HANDRAIL IS REQUIRED ON CURVED STAIRS OF ANY WIDTH WITHIN DWELLING UNITS
-HANDRAILS ARE TO BE CONTINUOUS EXCEPT WHERE INTERRUPTED BY DOORWAYS, LANDINGS OR POSTS AT CHANGES IN DIRECTION
- HEIGHT:**
O.B.C. 9.8.7.4
-2'-10" (865mm) MIN. TO 3'-2" (965mm) MAX.
-3'-6" (1070mm) WHERE GUARDS ARE REQUIRED ON LANDINGS
-MEASURED VERTICALLY FROM THE TOP OF THE HANDRAIL TO A STRAIGHT LINE DRAWN FROM THE TANGENT TO THE TREAD NOSING
- PROJECTIONS:**
O.B.C. 9.8.7.6
-HANDRAILS AND PROJECTIONS BELOW HANDRAILS INCLUDING STEP STRINGERS TO PROJECT A MAXIMUM OF 4" (100mm) INTO THE REQUIRED WIDTH OF THE STAIR
- 36a) PUBLIC STAIRS:**
O.B.C. 9.8.4.
-MAX. RISE = 7-3/32" (180mm)
-MIN. RUN = 11" (280mm)
-MIN. TREAD = 11" (280mm)
-MAX. NOSING = 1" (25mm)
-MIN. HEADROOM = 6'-9" (2050mm)
-MIN. WIDTH = 2'-11" (900mm)
(EXIT STAIRS, BETWEEN GUARDS)
-FINISHED RAILING ON WOOD PICKETS MAX. 4" BETWEEN PICKETS
-FOUND. WALL REQUIRED WHEN NUMBER OF RISERS EXCEEDS 2
-FIG. FOR FOUND. WALL TO BE MIN. 4'-0" (1220mm) BELOW GRADE
- HANDRAILS:**
O.B.C. 9.8.7
-ONE HANDRAIL REQUIRED WHERE STAIR WIDTH IS LESS THAN 3'-7" (1100mm)
-TWO HANDRAILS REQUIRED WHERE STAIR WIDTH EXCEEDS 3'-7" (1100mm)
-TWO HANDRAILS ARE REQUIRED ON CURVED STAIRS OF ANY WIDTH
-HANDRAILS ARE TO BE CONTINUOUS INCLUDING AT LANDINGS EXCEPT WHERE INTERRUPTED BY DOORWAYS OR NEWEL POSTS AT CHANGES IN DIRECTION
- HEIGHT:**
O.B.C. 9.8.7.4
-2'-10" (865mm) MIN. TO 3'-2" (965mm) MAX.
-3'-6" (1070mm) WHERE GUARDS ARE REQUIRED ON LANDINGS
-MEASURED VERTICALLY FROM THE TOP OF THE HANDRAIL TO A STRAIGHT LINE DRAWN FROM THE TANGENT TO THE TREAD NOSING
- PROJECTIONS:**
O.B.C. 9.8.7.6
-HANDRAILS AND PROJECTIONS BELOW HANDRAILS INCLUDING STEP STRINGERS TO PROJECT A MAXIMUM OF 4" (100mm) INTO THE REQUIRED WIDTH OF THE STAIR
- TERMINATION:**
O.B.C. 9.8.7.3
-ONE HAND RAIL SHALL EXTEND HORIZONTALLY NOT LESS THAN 11 3/4" (300mm) BEYOND THE TOP & BOTTOM OF EACH STAIR AS
- FINISH:**
O.B.C. 9.8.9.6
-TREADS ARE TO BE WEAR AND SLIP RESISTANT, SMOOTH, EVEN AND FREE FROM DEFECTS PER OBC 9.8.9.6.1(4)
-STAIRS AND RAMPS SHALL HAVE A COLOUR CONTRAST OR DISTINCTIVE VISUAL PATTERN TO DEMARCATHE THE LEADING EDGE OF THE TREADS, LANDING AND THE BEGINNING AND END OF A RAMP.

- 36) INTERIOR GUARDS:**
O.B.C. SB-7 & 9.8.8.3.
-GUARDS TO BE 3'-6" (1070mm) HIGH
-FOR DWELLING UNITS GUARDS TO BE A MIN. OF 2'-11" (900mm) HIGH
-INCLUDES WINDOWS OVER STAIRS, RAMPS AND LANDINGS
-PICKETS TO HAVE 4" (100mm) MAX. SPACING
-GUARDS FOR FLIGHTS OF STEPS (EXCEPT EXIT STAIRS) TO BE 2'-11" (900mm) HIGH
- 36c) EXTERIOR GUARDS:**
O.B.C. SB-7 & 9.8.8.3.
-GUARDS ARE REQUIRED WHEN WALKING SURFACE TO GRADE IS GREATER THAN 23 5/8" (600mm).
-GUARDS TO BE 3'-6" (1070mm) HIGH
-FOR DWELLING UNITS GUARDS TO BE A MIN. OF 2'-11" (900mm) HIGH
-FOR DWELLING UNITS GUARDS TO BE 3'-6" (1070mm) HIGH WHERE WALKING SURFACE IS MORE THAN 5'-11" (1800mm) ABOVE ADJACENT GRADE.
-PICKETS TO HAVE 4" (100mm) MAX. SPACING
-PROVIDE HAND RAILS AS PER SB-7 & 9.8.8.3.
-GUARDS FOR FLIGHTS OF STEPS (EXCEPT EXIT STAIRS) TO BE 2'-11" (900mm) HIGH
- THESE DRAWINGS ARE NOT TO BE SCALED. ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR PRIOR TO COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES MUST BE REPORTED DIRECTLY TO RN DESIGN LTD

CLIENT SPECIFIC REVISIONS

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QUALIFIED DESIGNER BCIN: 30640
FIRM BCIN: 26995
DATE: MAR-13-15

SIGNATURE:

E. Schneider

client
Senator Homes

project
BATHURST 9130

#	revisions	date	dwn	cht	#	revisions	date	dwn	cht
1	ISSUED FOR CLIENT REVIEW	20-Jun-14	dcb	at	5				
2	ISSUED FINAL	12-Mar-15	jm	dh	6				
3					7				
4					8				

location
Vaughan

marketing name
Bedford

RN design
imagine • inspire • create

model
TH-22-2

scale
3/16" = 1'0"

project #
12073

page

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- 36b) EXTERIOR GUARDS @ JULIET BALCONY:**
- FOR RAILING SPANNING MAXIMUM OF 6'-0".
 - PROVIDE PREFIN. METAL RAILING W/ 76mm VERTICAL OPENING TO CONFORM WITH O.B.C., APPENDIX A-9.8.8.5.
 - GUARDS TO BE 3'-6" (1070mm)
 - FOR DWELLING UNITS GUARDS TO BE 2'-11" (900mm) WHERE FLOOR TO GRADE DIFFERENCE IS LESS THAN 5'-11" (1800mm) AS PER O.B.C. 9.8.8.2. OR
 - FOR DWELLING UNITS GUARDS TO BE 3'-6" WHERE FLOOR TO GRADE DIFFERENCE IS 5'-11" (1800mm) OR GREATER AS PER O.B.C. 9.8.8.2.
 - VERTICAL END RAILING ANCHORED TO CORNER DOUBLE STUDS USING 3 ROWS OF 3/8"Ø MIN. ANCHOR BOLTS EQUALLY SPACED WITH 3" MIN. EMBEDMENT TO STUDS.
 - PROVIDE SAME ANCHOR BOLTS @ 36" O.C. FOR BASE PLATE CONNECTION.
- 37) LINEN CLOSET 4 SHELVES MIN. 1'-2" (350mm) DEEP**
- 38) -WASHROOMS TO BE MECHANICALLY VENTED TO PROVIDE AT LEAST ONE AIR CHANGE PER HOUR, O.B.C.- 9.32.1.3.(3)**
- 39) -CAPPED DRYER VENT**
- 40) -1"x2" (19mmX38mm) BOTH SIDES OF STEEL.**
- 41) -WOOD FRAMING MEMBERS SUPPORTED ON CONCRETE IN CONTACT WITH GROUND OR FILL SHALL BE PRESURE TREATED OR SEPARATED FROM CONCRETE W/ 6 mil POLYETHYLENE.**
- 42) -PRECAST CONC. STEP**
-2 RISERS MAXIMUM PERMITTED TO BE LAID ON GROUND
- 44) SMOKE ALARM, O.B.C.- 9.10.19.**
-PROVIDE 1 ON EACH FLOOR INCLUDING BASEMENTS
-PROVIDE 1 IN EACH BEDROOM
-PROVIDE 1 IN EACH HALLWAY SERVICING BEDROOMS
-INSTALLED AT OR NEAR CEILING
-ALARMS TO BE CONNECTED IN CIRCUIT AND INTERCONNECTED SO ALL ALARMS WILL BE ACTIVATED IF ANY ONE OF THEM SOUNDS AND HAVE A VISUAL SIGNALLING COMPONENT
-ALARMS MUST BE HARDWIRED AND HAVE AN ALTERNATE POWER SOURCE THAT CAN POWER ALARM FOR 7 DAYS, FOLLOWED BY 4 MINUTES OF ALARM
- 45) CARBON MONOXIDE ALARM (CMA), O.B.C.- 9.33.4.**
-WHERE THERE IS A FUEL BURNING APPLIANCE A CMA SHALL BE PROVIDED ADJACENT TO EACH SLEEPING AREA.
-CMA TO BE WIRED IN CIRCUIT TO SOUND SMOKE ALARMS WHEN ACTIVATED.
- 46) -MAIN DOOR TO BE OPERABLE FROM INSIDE W/OUT KEY.**
-PROVIDE A VIEWER WITH A VIEWING ANGLE OF NOT LESS THAN 160 DEG. UNLESS GLAZING IS PROVIDED IN DOOR OR A SIDELIGHT IS PRESENT.
-R4 (RSI 0.70) WHERE A STORM DOOR IS NOT PROVIDED
- 47) -GARAGE MAIN DOORS TO BE GAS PROOFED WITH SELF CLOSER, WEATHERSTRIPPING, THRESHOLD & DEAD BOLT PER O.B.C. 9.10.13.15.**
-R4 (RSI 0.70)
- 48) -TRAVEL FROM A FLOOR LEVEL TO AN EXIT OR EGRESS DOOR SHALL BE LIMITED TO ONE FLOOR EXCEPT:**
1) WHERE THAT FLOOR LEVEL HAS ACCESS TO A BALCONY OR
2) WHERE THAT FLOOR LEVEL HAS A WINDOW PROVIDING AN UNOBSTRUCTED OPENING OF NOT LESS THAN 3'-3" (1000mm) IN HEIGHT AND 21 5/8" (550mm) IN WIDTH; SUCH WINDOW SHALL BE LOCATED SO THAT THE SILL IS NOT MORE THAN 3'-3" (1000mm) ABOVE FLOOR AND 23'-0" (7.0m) ABOVE ADJACENT GROUND LEVEL.

- 49) EXTERIOR COLUMN W/ MASONRY PIER:**
- MIN. 6"x6" (140mm X 140mm) WOOD POST ANCHORED TO PORCH SLAB W/ METAL SADDLE.
 - TOP PORTION OF POST CLAD W/ DECOR. SURROUND PER ELEVATION DRAWINGS.
 - 14" X 14" MASONRY VENEER SURROUND W/ PRECAST CONCRETE CAP.
 - REFER TO ELEVATION DRAWINGS FOR HEIGHT OF CAP.
 - SURROUND TO BE TIED W/ METAL TIES @ 16" (400mm) O.C. VERT. INSTALLED PER O.B.C. 9.20.9.4.
 - 3/4" AIR SPACE AROUND POST.
 - OR
 - MIN. 6"x6" (140mm X 140mm) WOOD POST CLAD W/ DECOR. SURROUND (PER ELEVATION DRAWINGS) ANCHORED TO CONC. CAP W/ METAL SADDLE.
 - 14" X 14" MASONRY PIER TO BE CONSTRUCTED SOLID W/ PRECAST CONCRETE CAP.
 - REFER TO ELEVATION DRAWINGS FOR HEIGHT OF CAP.
 - NOTE: DECORATIVE STRUCTURAL COLUMNS MAY REPLACE 6" X 6" POST PROVIDED THAT THEY ARE IN CONFORMANCE WITH O.B.C. 9.17.4.
- 49c) EXTERIOR COLUMN:**
- MIN. 6"x6" (140mm X 140mm) WOOD POST CLAD W/ DECOR. SURROUND (PER ELEVATION DRAWINGS) ANCHORED TO PORCH SLAB W/ METAL SADDLE
 - NOTE: DECORATIVE STRUCTURAL COLUMNS MAY REPLACE 6" X 6" ABOVE PROVIDED THAT THEY ARE IN ACCORDANCE WITH O.B.C. 9.17.4.
- 50) COLD CELLARS:**
- FOR COLD CELLARS PROVIDE THE FOLLOWING:
 - VENTING AREA TO BE EQUIVALENT TO 0.2% OF COLD CELLAR AREA.
 - COVER VENT W/ BUG SCREEN
 - WALL MOUNTED LIGHT FIXTURE
 - 111/2" FOR DOOR OPENING
 - 2'-8" X 6'-8" EXTERIOR TYPE DOOR (MIN. R-4 (RSI 0.7)
 - INSULATE FULL HEIGHT OF INTERIOR BASEMENT WALL W/ MIN. R12 (RSI 2.11)

- 51) STUD WALL REINFORCEMENT:**
- O.B.C. 9.5.2.3.
 - WALL STUDS ADJACENT TO WATER CLOSETS & SHOWER BATH TUBS IN MAIN BATHROOM ARE TO BE REINFORCED TO PERMIT THE FUTURE INSTALLATION OF GRAB BARS AS PER O.B.C. 3.8.3.8.(3)(a)(3)(c) & 3.8.3.13.(2)(f) & 3.8.3.13.(4)(c)
 - GRAB BARS TO BE INSTALLED AS PER O.B.C. 9.8.7.7.(2)

FRAME CONSTRUCTION:

- ALL FRAMING LUMBER TO BE No.1 AND No. 2 SPF UNLESS NOTED OTHERWISE.
- ROOF LOADING IS BASED ON 1.5kPa SPECIFIED COMPOSITE SNOW AND RAIN LOADS.
- JOISTS TO HAVE MIN. 1-1/2" (38mm) END BEARING
- BEAMS TO HAVE MIN. 3-1/2" (89mm) END BEARING
- DOUBLE STUDS @ OPENINGS
- DOUBLE HEADER JOISTS AROUND FLOOR OPENINGS WHEN THEY ARE BETWEEN 3'-11" (1200mm) AND 10'-6" (3200mm)
- DOUBLE TRIMMER JOISTS WHEN HEADER JOIST LENGTH IS BETWEEN 2'-7" (800mm) AND 6'-7" (2000mm)
- DOUBLE JOISTS OR SOLID BLOCKING UNDER NON-LOAD BEARING PARALLEL PARTITIONS
- BEAMS TO BE PLACED UNDER LOADBEARING WALLS WHEN WALLS ARE PARALLEL TO FLOOR JOISTS

- BEAMS MAY BE A MAX. 24" (600mm) FROM LOADBEARING WALLS WHEN WALLS ARE PERPENDICULAR TO FLOOR JOISTS
- APPROVED METAL HANGERS TO BE USED FOR JOISTS AND BEAMS WHEN THEY FRAME INTO SIDES OF BEAMS, TRIMMERS AND HEADERS
- FLOOR JOISTS SUPPORTING ROOF LOADS SHALL NOT BE CANTILEVERED MORE THAN 15 3/4" (400mm) BEYOND SUPPORTS FOR 2' X 8" (38mm X 184mm)
- FLOOR JOISTS SUPPORTING ROOF LOADS SHALL NOT BE CANTILEVERED MORE THAN 23 5/8" (600mm) BEYOND SUPPORTS FOR 2' X 10" (38mm X 235mm) OR LARGER.

WINDOWS:

- WINDOWS TO BE SEALED TO THE AIR & VAPOR BARRIER
- WINDOWS THAT SEPARATE HEATED SPACE FROM UNHEATED SPACE SHALL HAVE AN OVERALL COEFFICIENT OF HEAT TRANSFER OF 1.8 W/(m2.K) OR
- AN ENERGY RATING OF NOT LESS THAN 21 FOR OPERABLE WINDOWS & 31 FOR FIXED WINDOWS
- BASEMENT WINDOWS WITH LOAD BEARING STRUCTURAL FRAME SHALL BE DOUBLE GLAZED WITH LOW-E COATING
- SKYLIGHTS SHALL HAVE AN OVERALL COEFFICIENT OF HEAT TRANSFER OF 2.8 W/(m2.K)
- FOR GROSS GLAZED AREAS LESS THAN 17%

ADDITIONAL COMPLIANCE ALTERNATIVES FOR PACKAGE J:

- THE MINIMUM R (RSI) VALUE FOR THERMAL INSULATION IN EXPOSED ABOVE GRADE WALLS IS PERMITTED TO BE NO LESS THAN R20 (RSI 3.52) PROVIDED THAT THE WINDOWS AND SLIDING GLASS DOORS HAVE A MAXIMUM U-VALUE OF 1.6, OR THE THERMAL INSULATION VALUE IN BASEMENT WALLS HAS A MINIMUM R20 (RSI 3.52).
- OR
- WHERE BLOWN-IN INSULATION OR SPRAY-APPLIED FOAM INSULATION IS USED, THE MINIMUM R (RSI) VALUE FOR THERMAL INSULATION IN EXPOSED ABOVE GRADE WALLS IS PERMITTED TO BE NO LESS THAN R20 (RSI 3.52) PROVIDED THAT:
- a) THE THERMAL INSULATION VALUE IN A CEILING WITH AN ATTIC SPACE IS NOT LESS THAN R60 (RSI 10.55).
- b) THE MINIMUM EFFICIENCY OF THE HRV IS INCREASED BY NOT LESS THAN 8 PERCENTAGE POINTS.
- c) THE MINIMUM AFUE OF THE SPACE HEATING EQUIPMENT IS INCREASED BY NOT LESS THAN 2 PERCENTAGE POINTS.
- d) THE MINIMUM EF OF THE DOMESTIC HOT WATER HEATER IS INCREASED BY NOT LESS THAN 4 PERCENTAGE POINTS.

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DOORS 44-47	
A	865x2030x35 (2'10"x6'8"x1-3/4")
B	815x2030x35 (2'8"x6'8"x1-3/8")
C	760x2030x35 (2'6"x6'8"x1-3/8")
D	710x2030x35 (2'4"x6'8"x1-3/8")
E	460x2030x35 (1'6"x6'8"x1-3/8")
F	610x2030x35 (2'0"x6'8"x1-3/8")
G	OVER SIZED EXTERIOR DOOR

STEEL BEAMS	
ST1	W 6 X 15
ST2	W 6 X 20
ST3	W 8 X 18
ST4	W 8 X 21
ST5	W 8 X 24

SCHEDULES

WOOD BEAMS	
WD1	3/ 2" X 8" SPR
WD2	4/ 2" X 8" SPR
WD3	5/ 2" X 8" SPR
WD4	3/ 2" X 10" SPR
WD5	4/ 2" X 10" SPR
WD6	5/ 2" X 10" SPR
WD7	3/ 2" X 12" SPR
WD8	4/ 2" X 12" SPR

LINTELS	
L1	2/ 2" X 8" SPR
L3	2/ 2" X 10" SPR
L5	2/ 2" X 12" SPR
L7	3-1/2" X 3-1/2" X 1/4" L
L9	4" X 3-1/2" X 1/4" L

WOOD BEAMS	
WD9	5/ 2" X 12" SPR
WD10	2/1 3/4" X 7 1/4" (2.0E) LVL
WD11	3/1 3/4" X 7 1/4" (2.0E) LVL
WD12	2/1 3/4" X 9 1/2" (2.0E) LVL
WD13	3/1 3/4" X 9 1/2" (2.0E) LVL
WD14	2/1 3/4" X 11 7/8" (2.0E) LVL
WD15	3/1 3/4" X 11 7/8" (2.0E) LVL

LINTELS	
L10	4-7/8" X 3-1/2" X 5/16" L
L11	4-7/8" X 3-1/2" X 3/8" L
L12	4-7/8" X 3-1/2" X 1/2" L
L13	5-7/8" X 3-1/2" X 3/8" L
L14	5-7/8" X 3-1/2" X 1/2" L

- SMOKE ALARM 44
- WATERPROOF DUPLEX OUTLET
- VENTS AND INTAKES
- HOSE BIB
- EXHAUST FAN 38
- COLD CELLAR VENT 50
- STOVE VENT
- FIRE PLACE VENT
- DRYER VENT

PLAN/ELEVATION LEGEND

- CARBON MONOXIDE ALARM (CMA) 45
- DOUBLE JOIST
- P.T. PRESSURE TREATED LUMBER
- G.T. GIRDER TRUSS
- A.F.F. ABOVE FINISHED FLOOR
- EX. LIGHT FIXTURE (WALL MOUNTED)
- HYDRO METER
- GAS METER
- FLOOR DRAIN
- SOLID BEARING (DO NOT SCALE WITH A TYPICAL DRAWING)
- POINT LOAD
- FLAT ARCH
- 2 STORY WALL
- UNDER SIDE
- FIXED GLAZING
- GLASS BLOCK
- BLACK GLASS

I, ERIC SCHNEIDER DECLARE THAT I HAVE REVIEWED AND TAKEN DESIGN RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF **RN DESIGN LTD.** UNDER DIVISION C, PART-3 SUBSECTION-3.2.4 OF THE BUILDING CODE. I AM QUALIFIED AND THE FIRM IS REGISTERED IN THE APPROPRIATE CLASSES / CATEGORIES.
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FIRM BCIN: 26995
DATE: MAR-13-15

SIGNATURE:

E. Schneider

client
Senator Homes

project
BATHURST 9130

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location
Vaughan

marketing name
Bedford

RN design
Imagine • Inspire • Create



model
TH-22-2

scale
3/16" = 1'0"

project #
12073

page

D3