19-44464 00000 RR

Energy Efficiency Design Summary: Prescriptive Method (Building Code Part 9, Residential)

This form is used by a designer to demonstrate that the energy efficiency design of a house complies with the building code using the prescriptive method described in Subsection 3.1.1. of SB-12. This form is applicable where the ratio of gross area of windows/sidelights/skylights/glazing in doors and sliding glass doors to the gross area of peripheral walls is not more than 22%.

	ALTERNATION OF THE PARTY OF THE					
Application No:			Model/	Certification Numb		1
A. Project Information			Reg. Plan number? other description 43M-2057 Code compliance package being employed in this house design] Code compliance package being employed in this house design] Code compliance package being employed in this house design] Code compliance Code code code code code code code code c			
Building number, street name					Unit number	LovCon 8
Municipality 6		code	Reg. Pl	an number / other	A TOWN OF THE PARTY OF THE PART	
City of Bramptor]				43M-205	7
B. Prescriptive Complia	nce [indicate th	e building code	compliance	package being	employed in this house	design]
SB-12 Prescriptive (input design	gn package):	Package: A	1		Table:	
C. Project Design Condition						
Climatic Zone (SB-1):	Heating E	quipment Eff	iciency	Space Hear	ting Fuel Source	
□ Zone 1 (< 5000 degree days)	□ ≥ 92% A	FUE		□ Gas	□ Propane	□ Solid Fuel
□ Zone 2 (≥ 5000 degree days)	□≥84% <	92% AFUE		□ Oil	□ Electric	□ Earth Energy
Ratio of Windows, Skylights & Gla	ss (W, S & G)	to Wall Area		Other Build	ing Characteristics	
Area of walls = 343.30 m² or		G % = 8.56%		□ Slab-on-g □ Air Condit	round	asement nit
Area of W, S & G = 29.40 m ² or	ft Utilize windo	w averaging:	Yes □No			
D. Building Specifications	[provide values a	nd ratings of the	e energy eff	iciency compor	nents proposed]	
Energy Efficiency Substitution	IS					
ICF (3.1.1.2.(5) & (6) / 3.1.1.3.(5)	& (6))		******************		-	
Combined space heating and dom	estic water he	ating systems	(3.1.1.2.0	7) / 3.1.1.3.(7	"))	
	25-5-1-7	3 -,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	"	
Airtightness substitution(s)	- 0.4.4.0 0	and and		_		
Airtightness test required	e 3.1.1.4.B Re	equirea:		P	ermitted Substitution:	
Refer to Design Guide Attached) Table	e 3.1.1.4.C Re	equired:				
				Po	ermitted Substitution:	
	Re	W MES				
Building Component	Re Minimum F	quired:		Pe	ermitted Substitution:	
Building Component	Minimum F	W MES		Pe	ermitted Substitution:	
	Minimum F	quired:		Pe Building C	ermitted Substitution: omponent	Efficiency Ratings
Thermal Insulation	Minimum F or Maximu	quired:RSI / R values Im U-Value ⁽¹⁾	Window	Building Co	ermitted Substitution: omponent Provide U-Value ⁽¹⁾ or EF	Efficiency Ratings
Thermal Insulation Ceiling with Attic Space	Minimum F or Maximu Nominal	quired: RSI / R values Im U-Value ⁽¹⁾ Effective	Window	Building Constant States Building Constant States Building Global St	ermitted Substitution: omponent Provide U-Value ⁽¹⁾ or EF ass Doors	Efficiency Ratings
Thermal Insulation Ceiling with Attic Space Ceiling without Attic Space	Minimum F or Maximu Nominal 10.57	quired: RSI / R values Im U-Value ⁽¹⁾ Effective 10.43	Window Window Skylight	Building Constant & Doors Post & Doors	ermitted Substitution: omponent Provide U-Value ⁽¹⁾ or EF ass Doors	Efficiency Ratings R rating 1.6
Thermal Insulation Ceiling with Attic Space Ceiling without Attic Space Exposed Floor	Minimum F or Maximu Nominal 10.57 5.46 5.46	RSI/R values Im U-Value ⁽¹⁾ Effective 10.43 4.87 5.25	Window Window Skylight Mechan	Building Convs & Doors vs/Sliding Glass/Glazed Ronicals	ermitted Substitution: omponent Provide U-Value ⁽¹⁾ or EF ass Doors	Efficiency Ratings R rating 1.6 - 2.8 -
Thermal Insulation Ceiling with Attic Space Ceiling without Attic Space Exposed Floor Walls Above Grade	Minimum F or Maximu Nominal 10.57 5.46	equired: RSI / R values Im U-Value ⁽¹⁾ Effective 10.43 4.87	Window Window Skylight Mechar Heating	Building Conserve & Doors As/Sliding Glass/Glazed Ronicals Equip.(AFUE	ermitted Substitution: omponent Provide U-Value ⁽¹⁾ or EF ass Doors oofs	Efficiency Ratings R rating 1.6 - 2.8 -
Thermal Insulation Ceiling with Attic Space Ceiling without Attic Space Exposed Floor Walls Above Grade Basement Walls	Minimum F or Maximu Nominal 10.57 5.46 5.46 4.22	equired: RSI / R values Im U-Value ⁽¹⁾ Effective 10.43 4.87 5.25 3.00	Window Window Skylight Mechar Heating HRV Eff	Building Convs & Doors vs/Sliding Glats/Glazed Robicals Equip.(AFUE	ermitted Substitution: omponent Provide U-Value ⁽¹⁾ or EF ass Doors oofs	Efficiency Ratings R rating 1.6 - 2.8 -
Building Component Thermal Insulation Ceiling with Attic Space Ceiling without Attic Space Exposed Floor Walls Above Grade Basement Walls Slab (all >600mm below grade) Slab (edge only ≤600mm below grade)	Minimum F or Maximu Nominal 10.57 5.46 5.46 4.22 3.52	equired: RSI / R values Im U-Value ⁽¹⁾ Effective 10.43 4.87 5.25 3.00	Window Window Skylight Mechar Heating HRV Eft DHW H	Building Constant State	ermitted Substitution: omponent Provide U-Value ⁽¹⁾ or EF ass Doors oofs E) % at 0°C)	Efficiency Ratings 1.6 - 2.8 - 96% - 75% - 0.83
Thermal Insulation Ceiling with Attic Space Ceiling without Attic Space Exposed Floor Walls Above Grade Basement Walls Slab (all >600mm below grade) Slab (edge only ≤600mm below grade)	Minimum F or Maximu Nominal 10.57 5.46 5.46 4.22 3.52	RSI/R values im U-Value ⁽¹⁾ Effective 10.43 4.87 5.25 3.00 3.72	Window Window Skylight Mechar Heating HRV Eft DHW H	Building Constant Strain Strai	ermitted Substitution: omponent Provide U-Value ⁽¹⁾ or EF ass Doors oofs E) % at 0° C) in. 42% efficiency))	# Showers 2
Thermal Insulation Ceiling with Attic Space Ceiling without Attic Space Exposed Floor Walls Above Grade Basement Walls Slab (all >600mm below grade) Slab (edge only ≤600mm below grade) Slab (all ≤600mm below grade, or heated (1) U value to be provided in either W/(m²	Minimum F or Maximu Nominal 10.57 5.46 5.46 4.22 3.52 - 1.76 1.76 6.K) or Btu/(h-ft²-F	RSI/R values im U-Value ⁽¹⁾ Effective 10.43 4.87 5.25 3.00 3.72 - 1.76 1.96	Window Window Skylight Mechar Heating HRV Ef DHW H DWHR Combine	Building Constant State of the American Stat	ermitted Substitution: omponent Provide U-Value ⁽¹⁾ or EF ass Doors oofs E) % at 0° C) in. 42% efficiency)) ystem	# Showers 2 N/A
Thermal Insulation Ceiling with Attic Space Ceiling without Attic Space Exposed Floor Walls Above Grade Basement Walls Slab (all >600mm below grade) Slab (edge only ≤600mm below grade) Slab (all ≤600mm below grade, or heated (1) U value to be provided in either W/(m² E. Designer(s) [name(s) & BCIN(Minimum F or Maximu Nominal 10.57 5.46 5.46 4.22 3.52 - 1.76 1.76 5.K) or Btu/(h-ft²-F s), if applicable, or state of the	RSI/R values Im U-Value ⁽¹⁾ Effective 10.43 4.87 5.25 3.00 3.72 - 1.76 1.96 but not both.	Window Window Skylight Mechar Heating HRV Ef DHW H DWHR Combine	Building Constant State of the American Stat	ermitted Substitution: omponent Provide U-Value ⁽¹⁾ or EF ass Doors oofs E) E% at 0° C) in. 42% efficiency)) ystem	# Showers 2 / N/A
Thermal Insulation Ceiling with Attic Space Ceiling without Attic Space Exposed Floor Walls Above Grade Basement Walls Slab (all >600mm below grade) Slab (edge only ≤600mm below grade) Slab (all ≤600mm below grade, or heated (1) U value to be provided in either W/(m²	Minimum F or Maximu Nominal 10.57 5.46 5.46 4.22 3.52 - 1.76 0) 1.76 sK) or Btu/(h-ft²-Fs), if applicable, or igner to have rev	RSI/R values Im U-Value ⁽¹⁾ Effective 10.43 4.87 5.25 3.00 3.72 - 1.76 1.96 but not both.	Window Window Skylight Mechar Heating HRV Eft DHW H DWHR Combine	Building Constant States and the states are states and the states are states as a state of the states are states are states as a state of the states are states as a state of the states are states as a state of the states are states are states as a state of the states are states as a state of the states are states are states are states as a state of the states are	ermitted Substitution: omponent Provide U-Value ⁽¹⁾ or EF ass Doors oofs (a) at 0° C) (b) at 0° C) (c) at 42% efficiency)) ystem substantiate that design	# Showers 2 / N/A

AIR CHANGE HEAT GAIN DUCT LOSS DUCT GAIN HEAT GAIN PEOPLE

HEAT GAIN APPLIANCE SALIGHTS

TOTAL HT GAIN x 1.3 BTU/H

TOTAL HT LOSS BTU/H

SITE NAME: BUILDER:	GREE							TYP	E: AM	ELIA 2				GFA:	2818				Jun-18 78988					ER NATURAL AIR CHANGE RATE 0.335 ER NATURAL AIR CHANGE RATE 0.112			OSS ΔΤ'		CSA-F280-12 SB-12 PACKAGE A1
ROOM USE				MBR			E	NS		WIC			BED-2			BED-	3		BED-4			ENS-2				ENS-3/4			
EXP. WALL	1			33			1	24		12			37			30			13			10				7			
CLG. HT.				9		1		9	1	9			9		1	9			9			9				9			
The second secon	FACT	3000																											
GRS.WALL AREA		GAIN		297				216		108			333			270			117			90				63			
GLAZING				LOSS	GAI	N	LC	SS GAIN	1	LOSS	GAIN		LOSS	GAIN		LOSS	GAIN		LOSS	GAIN		LOSS	GAIN			LOSS	BAIN		
NORTH			0	0	0	10		0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0		
EAST			0	0	0	0		0 0	1 9	0	0	45	935	1860	26	540	1075	0	0	0	0	0	0		0	0	0	580	
SOUTH			0	0	0	0	1	0 0	1	0	0	0	0	0	0	0	0	15	312	370	0	0	0		7	145	173		
WEST			26	540	107	5 1	3 2	270 537	' '	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0		
SKYLT.			0	0	0	9	1	0 0	1 '	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0		
DOORS		4.0	0	0	0	. .		0 0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0		
NET EXPOSED WALL		0.7	271	1181	19	1 20	13 8	384 143	10	18 471	76	288	1255	203	244	1063	172	102	444	72	90	392	63		56	244	39		
NET EXPOSED BSMT WALL ABOVE GR EXPOSED CLG	-	0.6	0	0	0	. .		0 0	1 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0		
NO ATTIC EXPOSED CLG		0.6	303	380	17	4 14	1 1	177 81	8	9 112	51	300	376	172	209	262	120	150	188	86	164	205	94		103	129	59		1 1
EXPOSED FLOOR		1.2	0	0	0	1 9		0 0	1 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0		
BASEMENT/CRAWL HEAT LOSS		0.4	0	0	0	10	'	0 0	1	0	0	300	747	121	0	0	0	0	0	0	0	0	0		0	0	0		
SLAB ON GRADE HEAT LOSS				0				0		0			0			0			0			0				0	1		
SUBTOTAL HT LOSS	1							0		0			0			0			0			0				0			1 1
SUB TOTAL HT GAIN				2101			1	331		582			3313			1865			944			598				518			
LEVEL FACTOR / MULTIPLIER					143			761			127			2356			1386			528			168				271		
AIR CHANGE HEAT LOSS			0.20			0.3		1.31	0.			0.20	7.77		0.20			0.20			0.20	0.31			0.20	0.31			
AIR CHANGE HEAT LOSS				648			4	111		180			1022			575			291		1	184				160			

240

ROOM USE					MA			LV/DN			KT/BR				LAUN			PWD			FOY		100 100 1111					WUB	T	E	BAS
EXP. WALL					31			29			42				19			8			29		Tropies In		THE REAL PROPERTY.	DESCRIPTION AND DESCRIPTION OF THE PERSON NAMED IN COLUMN 2 IN COL		15	- 1	1	147
CLG. HT.					11			11		100	11				12			11			11		THE REAL PROPERTY.	N. Tanada and a		01		9			9
	FACT									7 4													PR		70	m 🐸	- 1				
GRS.WALL AREA		GAI	1	:	341	83.		319			462				228			88			319		107		m	2-1	1	135		8	882
GLAZING				L	oss	GAIN		LOSS	GAIN		LOSS	GAIN			LOSS	GAIN		LOSS	GAIN		LOSS	GAIN	WORK		<	- /		LOSS	AIN		oss
NORTH	20.8	18.	8	0	0	0	0	0	0	0	0	0	_	0	0	0	0	0	0	0	0	0	유교수		m		0	0	. ,	0	0
EAST	10000	41.	3	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	7	145	289	· · · · · · · · · · · · · · · · · · ·	Z	~		0	0	0	0	0
SOUTH	20.8	24.	7	0	0	0	39	810	982	0	0	0		0	0	0	7	145	173	0	0	0	3 5	MAR	<	201	0	0	0	9 1	187
WEST	20.8	41.	3 4	16	956	1901	0	0	0	56	1163	2314		0	0	0	0	0	0	0	0	0	CITY	20	111	ZTI	3	62	1124	0	0
SKYLT.	36.4	101	2	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	SISI	2	, 0	0-	0	0	0	0	0
DOORS	24.7	4.0		0	0	0	0	0	0	0	0	0		20	493	80	0	0	0	40	986	159	1 111		133	MAR	20	493	80	20 4	102
NET EXPOSED WALL	4.4	0.7	2	95 1	285	208	280	1220	197	406	1769	286		208	906	147	81	353	57	272	1185	192	COMP	0) ~		112	488	79	0	0
EXPOSED BSMT WALL ABOVE GR	3.5	0.6		0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	1300	, N		= D	1	400	,	441 1	549
EXPOSED CLG	1.3	0.6		0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	120		00	1<51	1 0	,	0		0
NO ATTIC EXPOSED CLG		1.5		0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	1 4 5 5		5	(n = 1	0		0	0	0
EXPOSED FLOOR		0.4		0	0	0	0	0	0	0	0	0		27	67	11	0	0	0	0	0	0	185	П	C	000	0	1 5	1	0	0
MENT/CRAWL HEAT LOSS					0			0			0				0			0			0		116	0 ~	2 17	1071				4	981
B ON GRADE HEAT LOSS					0			0			0				0		1	0			0		Se	2 C	PU	950		42			301
SUBTOTAL HT LOSS				2	241	36.4	-	2030			2932		14/2		1467			498			2317		077	4	13			1136		7	210
SUB TOTAL HT GAIN						2109	130		1180			2600				237	100		230			640	6C	,	1	Green Land		1100	283		210
EL FACTOR / MULTIPLIER			0.	30 0	.45		0.30	0.45		0.30	0.45			0.30	0.45		0.30	0.45		0.30	0.45		Concession and the	A STATE OF THE PARTY OF THE PAR	The second					0.80 1	.04
AIR CHANGE HEAT LOSS				1	016			920			1329				665		West.	226			1050										675
AIR CHANGE HEAT GAIN						169	100		93			208				19			18			51	20-						- 1		,,,
DUCTLOSS					0			0			0				213			0			0						1		- 1		0
DUCT GAIN						0	500		0			0				83			0			0					100		- 1		
HEAT GAIN PEOPLE	240			0		0	0		0	0		0		0		0	0		0	0		0					0		0	0	
T GAIN APPLIANCE SALIGHTS						573			673			573				573			0			0							0	•	
TOTAL HT LOSS BTU/H				3	267			2950			4261				2344		6.80	724			3386				100		100	1136		15	5885
TAL HT GAIN x 1.3 BTU/H						3706			2373			4397	A LIVE			1186			323	7/		899				The state of			367		-50

TOTAL HEAT GAIN BTU/H:

29865

TONS: 2.49

480

673

3390

1742

2748

LOSS DUE TO VENTILATION LOAD BTU/H: 1629

0

762

240

673

4768

STRUCTURAL HEAT LOSS: 49080

TOTAL COMBINED HEAT LOSS BTU/H: 50609

Mohal Offmhe.



			LI HOME YORK HO					TYPE: AMEL			And I	DATE:	Jun-18			GFA:	2818	LO#	78988				
HEATING CFM TOTAL HEAT LOSS AIR FLOW RATE CFM	970 49,080 19.76	4	TOTAL H	LING CFM HEAT GAIN RATE CFM	29,618			furnace pressu furnace filt a/c coil pressu available pressur for s/a & r	er 0.05 re 0.2								#5A-60-12 I SPEED LOW	CARRIE 60	R		AFUE = (BTU/H) = (BTU/H) =	60,000	
RUN COUNT S/A R/A	4th 0	3rd 0 0	2nd 10 5	1st 8 2	Bas 4			enum pressure s	/a 0.18	r/:		pressure ess. Loss	0.17 0.02				EDLOW MEDIUM JM HIGH	785 845 970		DESI	GN CFM = .		
All S/A diffusers 4"x10" unle All S/A runs 5"Ø unless note				out.				lusted pressure s				essure r/a	0.15				HIGH	1030	1	EMPERAT	URE RISE	55	°F
RUN # ROOM NAME RM LOSS MBH. CFM PER RUN HEAT RM GAIN MBH. CFM PER RUN COOLING ADJUSTED PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH TOTAL EFFECTIVE LENGTH ADJUSTED PRESSURE ROUND DUCT SIZE HEATING VELOCITY (ff/min) OUTLET GRILL SIZE TRUNK	1 MBR 1.37 27 1.70 56 0.17 48 180 228 0.08 5 198 411 3X10 A	2 ENS 1.74 34 1.07 35 0.17 38 160 198 0.09 4 390 402 3X10 A	3 WIC 0.76 15 0.18 8 0.17 32 160 192 0.09 4 172 69 3X10 B	4 BED-2 2.38 47 2.40 79 0.17 67 180 247 0.07 6 240 403 4X10 C	5 BED-3 2.44 48 2.98 97 0.16 70 170 240 0.07 6 245 495 4X10	6 BED-4 1.24 24 1.80 59 0.17 45 150 195 0.09 6 122 301 4X10 B	7 ENS-2 0.78 15 0.22 7 0.17 35 130 165 0.1 4 172 80 3X10 D	8 BED-2 2.38 47 2.40 79 0.17 64 170 234 0.07 6 240 403 4X10 C	10 MBR 1.37 27 1.70 56 0.17 41 180 221 0.08 5 198 411 3X10 A	11 ENS-3/4 0.68 13 0.38 12 0.17 65 210 275 0.06 4 149 138 3X10 C	12 FAM 1.63 32 1.85 61 0.17 40 160 200 0.09 5 235 448 3X10 A	13 LV/DN 2.95 58 2.37 78 0.17 33 110 143 0.12 5 426 573 3X10 D	14 KT/BR 2.13 42 2.20 72 0.17 26 120 146 0.12 5 308 529 3X10 A	15 KT/BR 2.13 42 2.20 72 0.17 18 120 138 0.12 5 308 529 3X10 A	16 FAM 1.63 32 1.85 61 0.17 30 150 180 0.1 5 235 448 3X10 A	17 LAUN 2.34 46 1.19 39 0.17 29 140 169 0.1 4 528 447 3X10 D	18 PWD 0.72 14 0.32 11 0.17 47 130 177 0.1 4 161 126 3X10 C	19 FOY 3.37 67 0.90 29 0.17 48 100 148 0.12 5 492 213 3X10 C		21 BAS 4.26 84 0.46 36 90 126 0.13 6 428 82 4X10 B	22 BAS 4.26 84 0.48 16 0.16 13 100 113 0.14 6 428 82 4X10 B		24 BAS 4.2: 84 0.4 16 0.1: 35 100 13: 0.1 6 428 82 4X1 D
RUN # ROOM NAME RM LOSS MBH. CFM PER RUN HEAT RM GAIN MBH. CFM PER RUN COOLING ADJUSTED PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH TOTAL EFFECTIVE LENGTH ADJUSTED PRESSURE ROUND DUCT SIZE HEATING VELOCITY (ft/min) COOLING VELOCITY (ft/min) OUTLET GRILL SIZE TRUNK	25 BAS 4.28 84 0.48 16 0.16 52 110 162 0.1 6 428 82 4X10 C		Laur	ATTACH OF REV NORK MU	MAA ED NOT STEVED	262 SPANITH	BRANTO SE PART	MPTON SION SESA,															
UPPLY AIR TRUNK SIZE							~									RETURN A	AIR TRUNK	(SIZE					
TRUNK A TRUNK B TRUNK C TRUNK C TRUNK C TRUNK E TRUNK F	236 443 320 523 0	PRESS 0.08 0.06 0.06 0.00 0.00	8.2 10.3 9.8 11.8 0	10 14 12 16 0	x x x x x	8 8 8 8 8	VELOCITY (f/min) 425 570 480 588 0	TRUNK TRUNK TRUNK TRUNK TRUNK	H 0	PRESS. 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0 0 0 0 0 0	RECT DUCT 0 0 0 0 0	x x x x x	8 8 8 8	(ft/min) 0 0 0 0 0 0	TRUNK O TRUNK P TRUNK Q TRUNK R TRUNK S TRUNK T TRUNK T	TRUNK CFM 0 0 0 0 0 0 0	PRESS. 0.06 0.06 0.06 0.06 0.06 0.06 0.06	ROUND DUCT 0 0 0 0 0	0 0 0 0 0 0 0	X X X X X	8 8 8 8 8	VELOC (#/mi 0 0 0 0 0
RETURN AIR #	1	2	3	4	5	6									BR	TRUNK V	0	0.06	0	0	X	8	0
IR VOLUME LENUM PRESSURE CTUAL DUCT LGH. QUIVALENT LENGTH OTAL EFFECTIVE LH DJUSTED PRESSURE OUND DUCT SIZE ILET GRILL SIZE	0 85 0.15 46 220 266 0.06 6	0 95 0.15 63 135 198 0.07 6	0 95 0.15 62 140 202 0.07 6	95 0.15 50 175 225 0.07 6	0 85 0.15 46 215 261 0.06 6	0 350 0.15 29 175 204 0.07 9.8	0 0 0.15 1 0 1 14.80	0 0 0 0 0.15 0.15 1 1 0 0 1 1 14.80 14.80 0 0	1 0 1	0 0.15 1 0 1 14.80	0 0.15 1 0 1 14.80	0 0.15 1 0 1 14.80	0 0 0.15 1 0 1 14.80	0 0 0.15 1 0 1 14.80	165 0.15 14 135 149 0.10 6.8	TRUNK X TRUNK Y TRUNK Z DROP	970 0 0 970	0.06 0.06 0.06 0.06 0.06	14.9 0 0 14.9	26 0 0 24	x x x x	8 8 8 10	67: 0 0 58:



TYPE: SITE NAME: AMELIA 2

E: GRANELLI HOME CORP

LO# 78988

RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

COMBUSTION APPLIANCES	0.00.0.444			
COMBUSTION APPLIANCES	9.32.3.1(1)	SUPPLEMENTAL VENTILATIO	N CAPACITY	9.32.3.5.
a) Vinect vent (sealed combustion) only		Total Ventilation Capacity	180	.2 cfm
b) Positive venting induced draft (except fireplaces)		Less Principal Ventil. Capacity	79	5 cfm
c) Natural draft, B-vent or induced draft gas fireplace		Required Supplemental Capacity	100	0.7 cfm
d) Solid Fuel (including fireplaces)				
, <u> </u>		PRINCIPAL EXHAUST FAN CA	PACITY	
e) No Combustion Appliances			REATH RNC5-HEX Loca	tion: BSMT
HEATING SYSTEM	Sey 6	79.5 cfm	3.0 sones	✓ HVI Approved
✓ Forced Air Non Forced Air		PRINCIPAL EXHAUST HEAT L	OSS CALCULATION	
		CFM	ΔT °F FACT	
Electric Space Heat		79.5 CFM X	74F X 1.0	8 X 0.24
Electric Space Heat		SUPPLEMENTAL FANS	NUTO	NE
		Location	Model cfr	
HOUSE TYPE	9.32.1(2)		QTXEN050C 5	
		ENS-2	QTXEN050C 5	
Type a) or b) appliance only, no solid fuel			QTXEN050C 5	
II To a Lawrent with a flat first (fact will a final contract)		PWD	QTXEN050C 5	0.3
II Type I except with solid fuel (including fireplaces)		HEAT RECOVERY VENTILATO	0	9.32.3.11.
III Any Type c) appliance			REATH RNC5-HEX	9.32.3.11.
		108	cfm high 55	cfm low
IV Type I. or II with electric space heat				
		76 % Se	ensible Efficiency	✓ HVI Approved
Other: Type I, il or IV no forced air	- 4	@ 32	deg F (0 deg C)	
		LOCATION OF INSTALLATION		
SYSTEM DESIGN OPTIONS	O.N.H.W.P.	LOCATION OF INSTALLATION		
		Lot:	Conces	sion
1 Exhaust only/Forced Air System				
		Township	Plan:	
2 HRV with Ducting/Forced Air System				
2 150 25-05-16		Address		
→ 3 HRV Simplified/connected to forced air system		Doll #	Dullida	D
4 HRV with Ducting/non forced air system		Roll #	Building	Permit #
That busing not to occur an ayouth		BUILDER: GRE	ENYORK HOMES	
Part 6 Design				
		Name:		
TOTAL VENTILATION CAPACITY	9.32.3.3(1)	Address:		
				Contract of the Contract of th
Basement + Master Bedroom 2 @ 21.2 cfm 42.4	cfm	City:		SAMPTON
Other Bedrooms 3 @ 10.6 cfm 31.8	cfm	Telephone #:	BUILDING	DIVISION
	Ciiii	releptione w.	BUILDING	Y'S. DESAL
Kitchen & Bathrooms 5 @ 10.6 cfm 53	cfm	INSTALLING CONTRACTOR	HEALENGE	
			MAR 2	2019
Other Rooms <u>5</u> @ 10.6 cfm <u>53.0</u>	cfm	Name:	MANZ	, 2010
Table 9.32.3.A. TOTAL 180.2	cfm	Address:		ES ARE PART
Table 5.52.5.A. 101AL 180.2	cim	Address.	ATTACHED NOT	LS AND TAIL
		City:	OF REVIEWEL	DRAWITH ORC
PRINCIPAL VENTILATION CAPACITY REQUIRED	9.32.3.4.(1)		ALL WORK MUST O	A PARTY OF THE PAR
. Coderon		Telephone #:	Fax #:	
1 Bedroom 31.8	cfm	DESIGNER CERTIFICATION		
2 Bedroom 47.7	cfm	I hereby certify that this ventilation	has been designed	
		in accordance with the Ontario Bu		
3 Bedroom 63.6	cfm		C Designs Ltd.	
				21
4 Bedroom 79.5	cfm	Signature:	Maken Offer	nhe.
5 Bedroom 95.4	cfm	HRAI#	001820	
95.4	Cilli	1110AL#	001820	
TOTAL 79.5 cfm		Date:	June-18	
I REVIEW AND TAKE RESPONIBILITY FOR THE DESIGN WORK AND AM QUAL	JETED IN THE APPR	OPRIATE CATEGORY AS AN "OTHER DESIG		



375 Finley Ave. Suite 202 Ajax, ON L1S 2E2 Tel: 905.619.2300 Fax: 905.619.2375

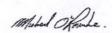
Web: www.hvacdesigns.ca E-mail: info@hvacdesigns.ca

HEAT LOSS AND GAIN SUMMARY SHEET

MODEL:	AMELIA 2			BUILDER: GREENYORK HOME	S
SFQT:	2818	LO#	78988	SITE: GRANELLI HOME CO	ORP
DESIGN A	SSUMPTIONS				
HEATING			°F	COOLING	°F
OUTDOOL	R DESIGN TEMP.		-2	OUTDOOR DESIGN TEMP.	86
INDOOR I	DESIGN TEMP.		72	INDOOR DESIGN TEMP. (MAX 75°F)	74
BUILDING	DATA				
ATTACHM	IENT:		DETACHED	# OF STORIES (+BASEMENT):	3
FRONT FA	CES:		EAST	ASSUMED (Y/N):	Y
AIR CHAN	GES PER HOUR:		3.57	ASSUMED (Y/N):	Y
AIR TIGHT	NESS CATEGORY:		AVERAGE	ASSUMED (Y/N):	Y
WIND EXF	POSURE:		SHELTERED	ASSUMED (Y/N):	Υ
HOUSE VO	DLUME (ft³):		39046.0	ASSUMED (Y/N):	Y
INTERNAL	SHADING:	BLIND	S/CURTAINS	ASSUMED OCCUPANTS:	5
INTERIOR	LIGHTING LOAD (Btu/	'h/ft²):	1.27	DC BRUSHLESS MOTOR (Y/N):	Y
FOUNDAT	TION CONFIGURATION		BCIN_1	DEPTH BELOW GRADE:	6.0 ft
LENGTH:	51.0 ft	WIDTH:	30.0 ft	EXPOSED PERIMETER:	147.0 ft

2012 OBC - COMPLIANCE PACKAGE	CITY OF BRAMPTON BUILDING DIVISION BUILDING DIVISION BUILDING DIVISION	Compliance	
Component	CITY OF BRIVISION		1
Ceiling with Attic Space Minimum RSI (R)-Value	CITY OF BUILDING DIVISION BUILDING DIVISION REVIEWED BY: S. DESAI REVIEWED BY: S. DESAI	Nominal 60	Min. Eff. 59.22
Ceiling Without Attic Space Minimum RSI (R)-Value	MAR 2 6 2019	31	27.65
Exposed Floor Minimum RSI (R)-Value	TO DARI I	31	29.80
Walls Above Grade Minimum RSI (R)-Value	ATTACHED NOTES ARE PART ATTACHED NOTES ARE PART OF REVIEWED DRAWINGS OF REVIEWED DRAWINGS	22	17.03
Basement Walls Minimum RSI (R)-Value	ATTACHED NO DRAWING OF REVIEWED DRAWING OSC	20 ci	21.12
Below Grade Slab Entire surface > 600 mm below grade Mi	nimum RSI (R)-Value	-	-
Edge of Below Grade Slab ≤ 600 mm Below Grade Minimur	n RSI (R)-Value	10	10
Heated Slab or Slab ≤ 600 mm below grade Minimum RSI (R)-Value	10	11.13
Windows and Sliding Glass Doors Maximum U-Value		0.28	-
Skylights Maximum U-Value		0.49	- 1
Space Heating Equipment Minimum AFUE		0.96	
HRV Minimum Efficiency		75%	
Domestic Hot Water Heater Minimum EF		0.8	-

INDIVIDUAL BCIN: 19669 MICHAEL O'ROURKE





Residential Foundation Thermal Load Calculator

Supplemental tool for CAN/CSA-F280

We	eather Station	Description
Province:	Ontario	
Region:	Brampton	
	Site Desci	ription
Soil Conductivity:	Normal condu	uctivity: dry sand, loam, clay
Water Table:	Normal (7-10	m, 23-33 ft)
	Foundation D	imensions
Floor Length (m):	15.5	
Floor Width (m):	9.1	
Exposed Perimeter (m):	44.8	
Wall Height (m):	2.7	
Depth Below Grade (m):	1.83	Insulation Configuration
Window Area (m²):	1.1	
Door Area (m²):	3.7	
	Radiant	Slab
Heated Fraction of the Slab:	0	CITY OF BRAMPTO
Fluid Temperature (°C):	33	BUILDING DIVIS ON REVIEWED BY: S. CES.
	Design M	onths MAR Z 6 Z019
Heating Month	1	ATTACHED NOTES ARE PAR OF REVIEWED DRAWINGS
	Foundation	1 Loads
Heating Load (Watts):		1459

TYPE: AMELIA 2 LO# 78988



Residential Foundation Thermal Load Calculator

Supplemental tool for CAN/CSA-F280

W	eather Stati	on Description
Province:	Ontario	
Region:	Brampton	
	Site De	scription
Soil Conductivity:	Normal cor	nductivity: dry sand, loam, clay
Water Table:	Normal (7-	10 m, 23-33 ft)
	Foundation	Dimensions
Length (m):	4.0	C TO THE CONTROL OF T
Width (m):	0.6	0.6m
Exposed Perimeter (m):	4.6	0.6m Insulation Configuration
	Radia	nt Slab
Heated Fraction of the Slab:	0	A S S S S S S S S S S S S S S S S S S S
Fluid Temperature (°C):	33	Carlo of Charles of the state o
	Design	Months
Heating Month	1	
	Res	ults FO
Heating Load (Watts):		27

TYPE: AMELIA 2 LO# 78988

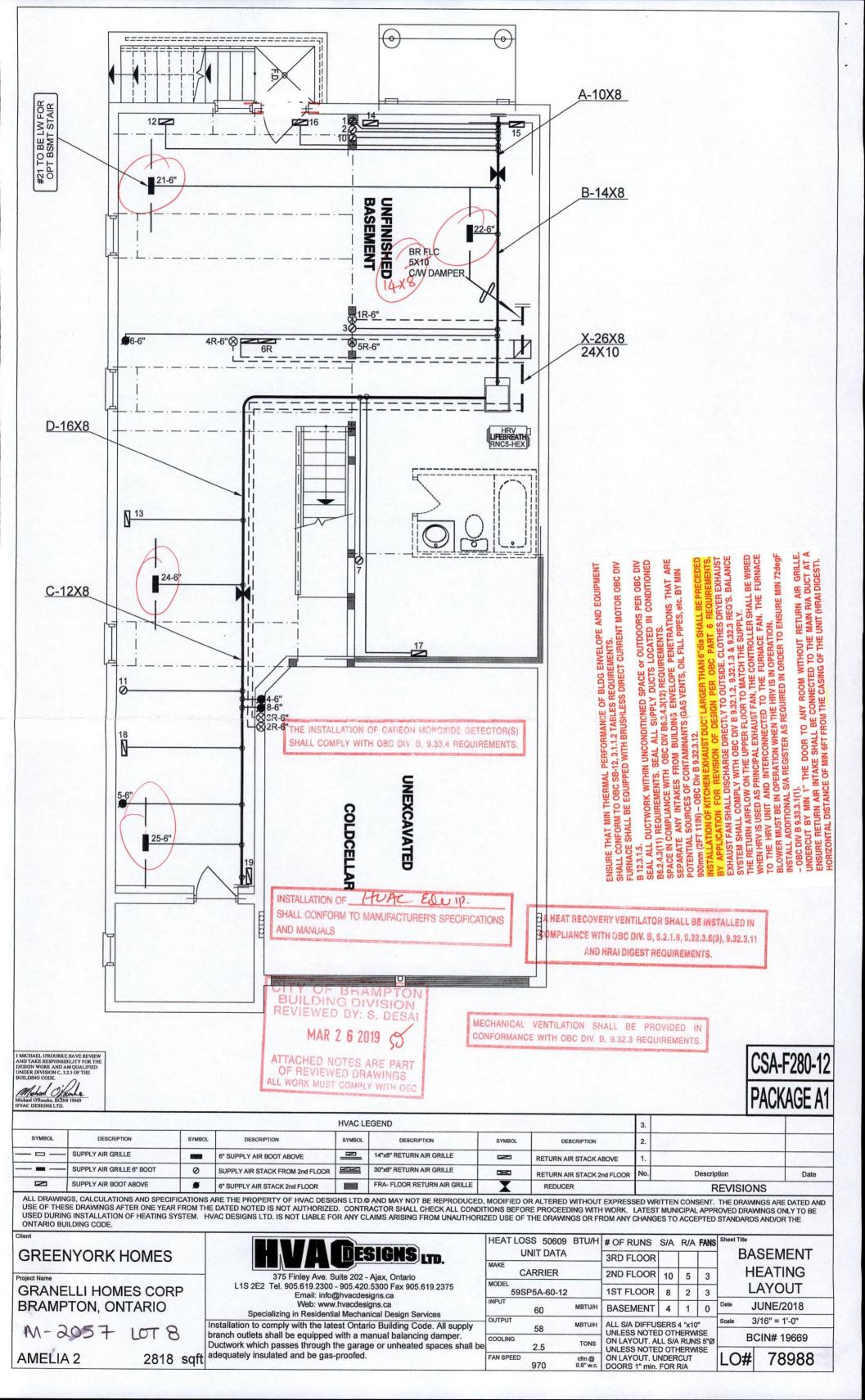


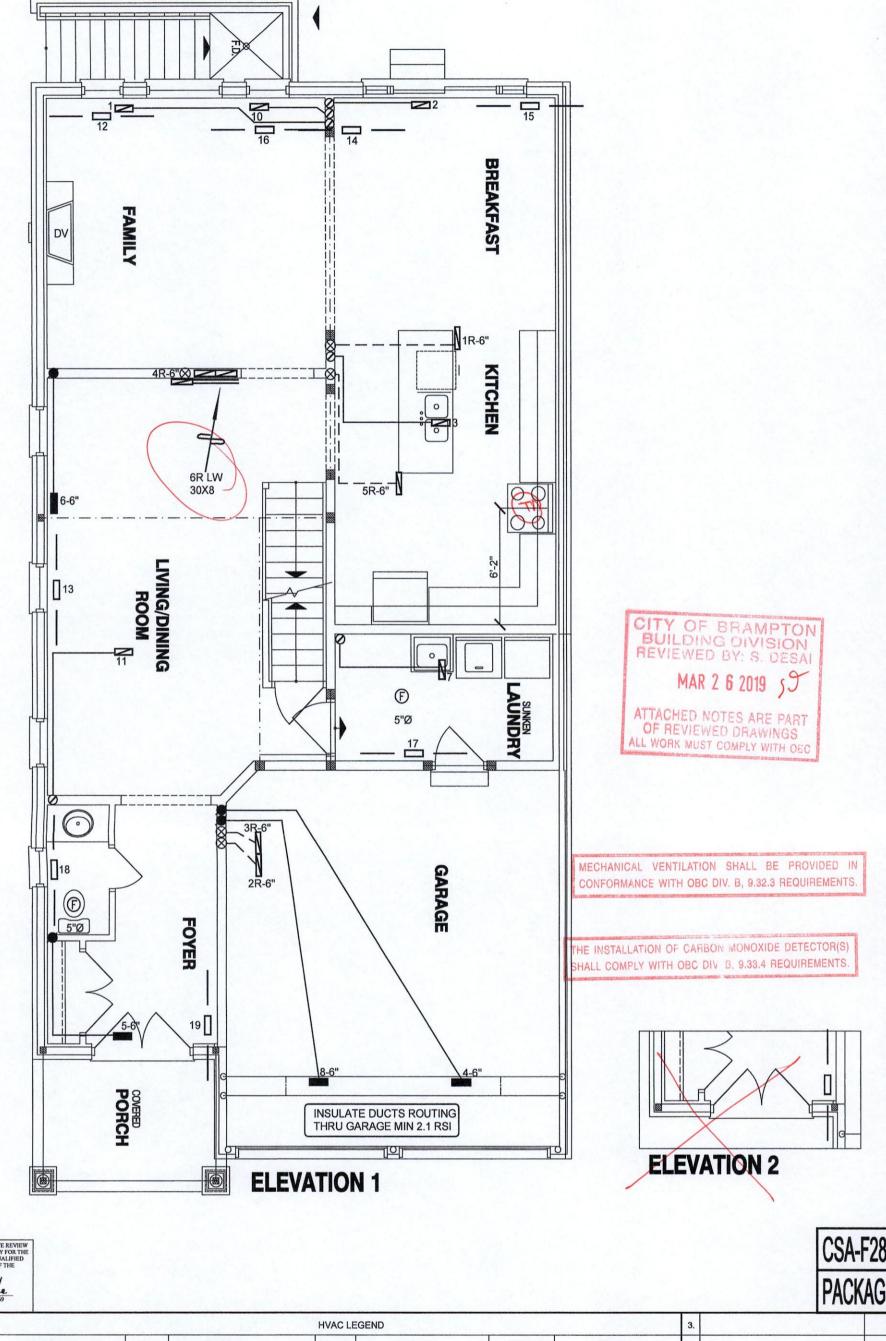
Air Infiltration Residential Load Calculator

Supplemental tool for CAN/CSA-F280

Weathe	r Station De	script	ion		
Province:	Onta	rio			
Region:	Bran	npton			
Weather Station Location:	Ope	n flat te	errain,	grass	
Anemometer height (m):	10				
L	ocal Shieldi	ng			
Building Site:	Subi	ırban, f	orest	To	ITY OF BRAMP
Walls:	Hear	/y			BILLI DING DIVISI
Flue:	Hear	/y		F	REVIEWED BY: S. D
Highest Ceiling Height (m):	7.01				MAR 2 6 2019
Build	ing Configu	ration			ATTACHED NOTES ARE
Type:	Deta	ched		1	OF REVIEWED DRAW!
Number of Stories:	Two			A	LL WORK MUST COMPLY W!
Foundation:	Full				
House Volume (m³):	1105	5.7			
Air Le	akage/Vent	ilatio	n		
Air Tightness Type:	Pres	ent (19	61-) (3	.57 AC	н)
Custom BDT Data:	ELA	@ 10 P	a.		1473.9 cm ²
	3.57	7			ACH @ 50 Pa
Mechanical Ventilation (L/s):	Т	otal Sup	ply		Total Exhaust
		37.5			37.5
	Flue Size				
Flue #:	#1	#2	#3	#4	
Diameter (mm):	0	0	0	0	
Natura	al Infiltration	Rate	es		
Heating Air Leakage Rate (AC	CH/H):	C	.33	5	
Cooling Air Leakage Rate (AC	H/H).	-	.11	2	

TYPE: AMELIA 2 LO# 78988





CSA-F280-12

				HVAC LE	EGEND			3.		
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	2.		
	SUPPLY AIR GRILLE		6" SUPPLY AIR BOOT ABOVE		14"x8" RETURN AIR GRILLE		RETURN AIR STACK ABOVE	1.		
	SUPPLY AIR GRILLE 6" BOOT	0	SUPPLY AIR STACK FROM 2nd FLOOR		30"x8" RETURN AIR GRILLE	S	RETURN AIR STACK 2nd FLOOR	No.	Description	Date
	SUPPLY AIR BOOT ABOVE		6" SUPPLY AIR STACK 2nd FLOOR	E050	FRA- FLOOR RETURN AIR GRILLE	X	REDUCER		REVISIONS	

ALL DRAWINGS, CALCULATIONS AND SPECIFICATIONS ARE THE PROPERTY OF HVAC DESIGNS LTD. AND MAY NOT BE REPRODUCED, MODIFIED OR ALTERED WITHOUT EXPRESSED WRITTEN CONSENT. THE DRAWINGS ARE DATED AND USE OF THESE DRAWINGS AFTER ONE YEAR FROM THE DATED NOTED IS NOT AUTHORIZED. CONTRACTOR SHALL CHECK ALL CONDITIONS BEFORE PROCEEDING WITH WORK. LATEST MUNICIPAL APPROVED DRAWINGS ONLY TO BE USED DURING INSTALLATION OF HEATING SYSTEM. HVAC DESIGNS LTD. IS NOT LIABLE FOR ANY CLAIMS ARISING FROM UNAUTHORIZED USE OF THE DRAWINGS OR FROM ANY CHANGES TO ACCEPTED STANDARDS AND/OR THE ONTARIO BUILDING CODE.

GREENYORK HOMES

GRANELLI HOMES CORP BRAMPTON, ONTARIO

M 2057 LOT 8

AMELIA 2

2818 sqft

375 Finley Ave. Suite 202 - Ajax, Ontario L1S 2E2 Tel. 905.619.2300 - 905.420.5300 Fax 905.619.2375 Email: info@hvacdesigns.ca

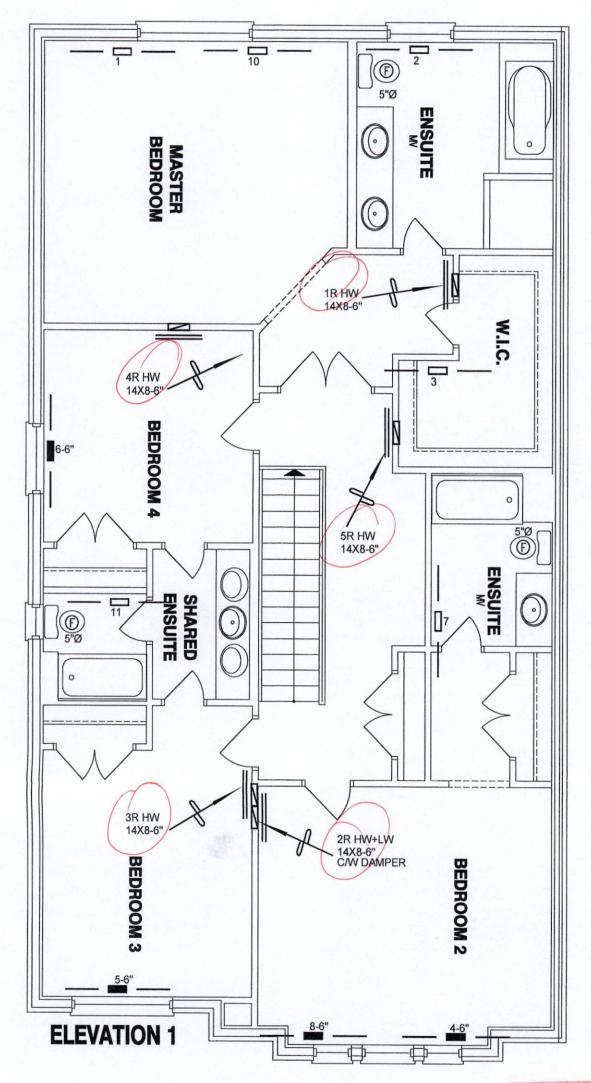
Web: www.hvacdesigns.ca Specializing in Residential Mechanical Design Services Installation to comply with the latest Ontario Building Code. All supply

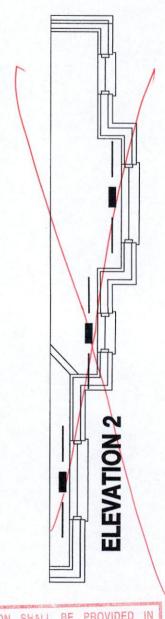
branch outlets shall be equipped with a manual balancing damper. Ductwork which passes through the garage or unheated spaces shall be adequately insulated and be gas-proofed.

FIRST FLOOR **HEATING** LAYOUT

JUNE/2018 3/16" = 1'-0" BCIN# 19669

78988 LO#





CITY OF BRAMPTON BUILDING DIVISION REVIEWED BY: S. DESAI MAR 2 6 2019

ATTACHED NOTES ARE PART OF REVIEWED DRAWINGS ALL WORK MUST COMPLY WITH DRC MECHANICAL VENTILATION SHALL BE PROVIDED IN CONFORMANCE WITH OBC DIV. B, 9.32.3 REQUIREMENTS.

THE INSTALLATION OF CARBON MONOXIDE DETECTOR(S) SHALL COMPLY WITH OBC DIV B, 9.33.4 REQUIREMENTS.

CSA-F280-12 PACKAGE A1

				HVAC LE	EGEND			3.		
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	2.		
	SUPPLY AIR GRILLE	1	6" SUPPLY AIR BOOT ABOVE		14"x8" RETURN AIR GRILLE	~	RETURN AIR STACK ABOVE	1.		
	SUPPLY AIR GRILLE 6" BOOT	0	SUPPLY AIR STACK FROM 2nd FLOOR		30"x8" RETURN AIR GRILLE	1383	RETURN AIR STACK 2nd FLOOR	No.	Description	Date
N	SUPPLY AIR BOOT ABOVE		6" SUPPLY AIR STACK 2nd FLOOR	(least	FRA- FLOOR RETURN AIR GRILLE	X	REDUCER		REVISIONS	

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ONT

I MICHAEL O'ROURKE HA YE REVIEW AND TAKE RESPONSIBILITY FOR THE DESIGN WORK AND AM QUALIFIED UNDER DIVISION C, 3.2.5 OF THE BUILDING CODE.

GREENYORK HOMES

Project Nam

GRANELLI HOMES CORP BRAMPTON, ONTARIO

M-2057 LOT 8

AMELIA 2

2818 sqft

HVA DESIGNS LTD.

375 Finley Ave. Suite 202 - Ajax, Ontario L1S 2E2 Tel. 905.619.2300 - 905.420.5300 Fax 905.619.2375 Email: info@hvacdesigns.ca

Web: www.hvacdesigns.ca Specializing in Residential Mechanical Design Services Installation to comply with the latest Ontario Building Code. All supply

branch outlets shall be equipped with a manual balancing damper.

Ductwork which passes through the garage or unheated spaces shall be adequately insulated and be gas-proofed.

Sheet Title

SECOND FLOOR HEATING

LAYOUT

Date JUNE/2018

BCIN# 19669

LO# 78988

Schedule 1: Designer Information

Use one form for each individual who reviews and takes responsibility for design activities with respect to the project. **Project Information** Building number, street name Unit no. Lot/con. 8 34 OSECO WAY ostal code lan number/ other description Municipality **BRAMPTON** 43M-2057 Individual who reviews and takes responsibility for design activities Firm ANDA ENGINEERING LTD. Name SANDY WHITE, P.Eng. Unit no. Lot/con. Street address 5125 ARDOCH ROAD Province ONTARIO E-mail Municipality design@andaengineering.com ARDOCH Telephone number Fax number Cell number (416) 476-1105 (613)479-0161 C. Design activities undertaken by individual identified in Section B. [Building Code Table 3.5.2.1. of Division C1 HVAC - House **Building Structural** House **Building Services** lumbing - House **Small Buildings** lumbing - II Buildings Detection, Lighting and Power **Large Buildings** On-site Sewage Systems Fire Protection Complex Buildings Description of designer's work AMELIA 2 - ELEVATION 1 GRANELLI HOMES CORP. **Declaration of Designer** SANDY WHITE declare that (choose one as appropriate): (print name) I review and take responsibility for the design work on behalf of a firm registered under subsection 3.2.4.of Division C, of the Building Code. I am qualified, and the firm is registered, in the appropriate classes/categories. Individual BCIN: Firm BCIN: I review and take responsibility for the design and am qualified in the appropriate category as an "other designer" under subsection 3.2.5.of Division C, of the Building Code. Individual BCIN: Basis for exemption from registration: The design work is exempt from the registration and qualification requirements of the Building Code. Basis for exemption from registration and qualification: P.Eng. exempt, note 2 I certify that: The information contained in this schedule is true to the best of my knowledge. 1. I have submitted this application with the knowledge and consent of the firm. 2019/24/01 Date Signature of Designer

NOTE:

- 1. For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) (c).of Division C, Article 3.2.5.1. of Division C, and all other persons who are exempt from qualification under Subsections 3.2.4. and 3.2.5. of Division C.
- Schedule 1 is not required to be completed by a holder of a license, temporary license, or a certificate of practice, issued by the Ontario Association of Architects. Schedule 1 is also not required to be completed by a holder of a license to practise, a limited license to practise, or a certificate of authorization, issued by the Association of Professional Engineers of Ontario.



Planning and Development Services

Building Division 8850 McLaughlin Road, Unit 1 Brampton, ON L6Y 5T1

Swhite

WATER PIPE SIZING AND PLUMBING DATA SHEET CERTIFIED MODEL WITH ONE DWELLING UNIT

THIS TABLE IS APPLICABLE FOR A HOUSE AFTER DECEMBER 31, 2017

Builder Name:

Greenyork Homes

Certified Model Name:

AMELIA 2 (LO#78988-P)

Optional Floor Layout:

Application No.:

The Ontario Building Code Div. B, 7.6.3 regulates size and capacity of pipes for a new house. Please enter the number of individual fixtures as listed and bathroom groups⁽⁶⁾ or powder room groups⁽⁷⁾ per floor. The fixture units and required minimum size of water service will automatically be calculated.

Description	Basement Floor Qty.	First Floor Qty.	Second Floor Qty.	Third Floor Qty.
Bidet				
Extra Shower			1	
Lav			1	
Bar Sink				
Powder room ⁽⁷⁾		1		
Kitchen Sink		1		
Dishwasher		1		
Laundry Tub		1		
Washing Machine		1		
Hose Bib		2		

Total Fixture Units

30

Minimum Diametre of Water Service Pipe

Required from the Property Line to the

1

House (Inch)

Notes:

- (1) A potable water system shall be designed, constructed and installed to conform to good engineering practice appropriate to the circumstances, such as that described in the ASHRAE Handbooks and ASPE Data Books.
- (2) No water system between the point of connection with the water service pipe or the water meter and the first branch that supplies a water heater that serves more than one fixture shall be less than ¾ in.
- (3) The minimum water pressure at the entry to the building is 200 kPa, and the total maximum length of the water system is 90 m.
- SEE THE ATTACK (4) In a hot water distribution system of a developed length of more than 30 m from the HWI to the farthest fixture or supplying more than 4 storeys, the water temperature shall be maintained by recirculation, or (b) a self-regulating heat tracing system.

(5)

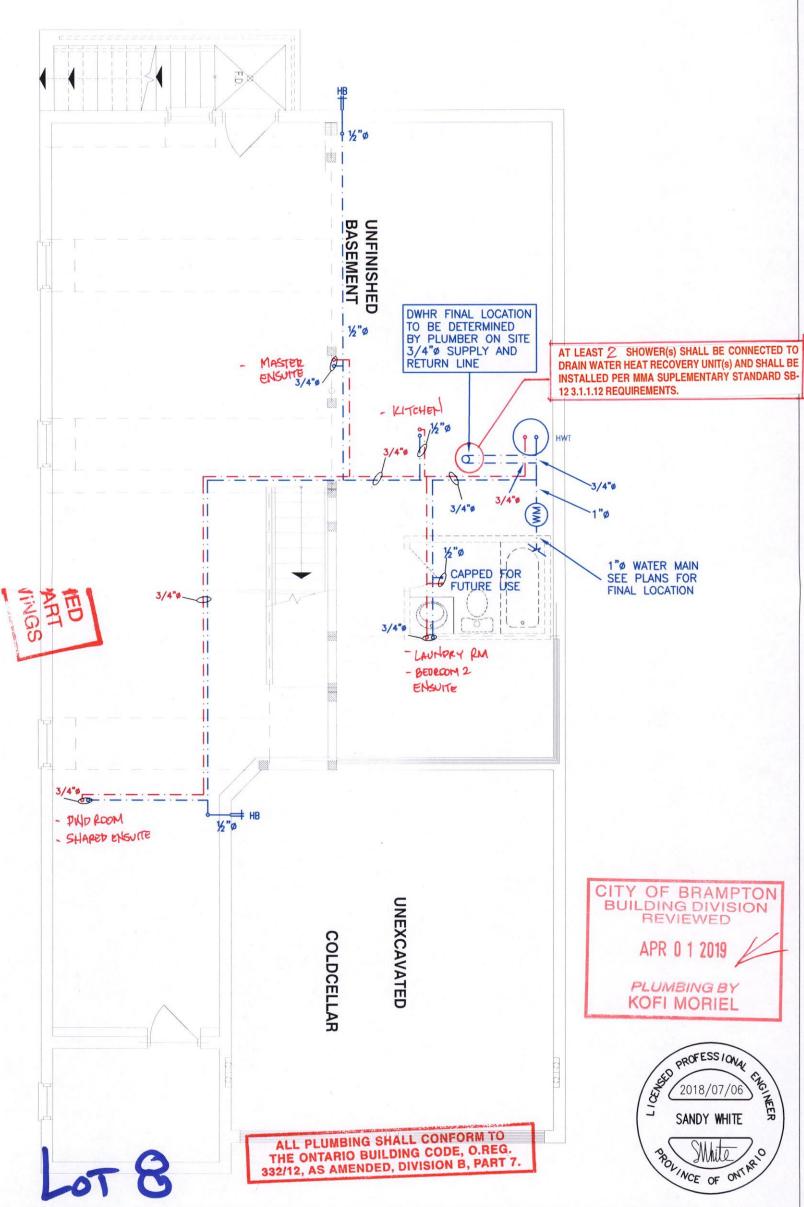
- Where piping may be exposed to freezing conditions, it shall be protected from the effects of freezing
- (6) A bathroom group consists of 1 water closet, 1 lavatory, and 1 bathtub (with or without showerhead)
- (7) A powder room group consists of 1 water closet and 1 lavatory.

NOTES

- 1. DRAWINGS ARE TO BE PRINTED IN COLOUR
 2. WHERE A 3/4"ø TUB SPOUT/ SPIGOT CONNECTION IS USED ON THE BATHTUB FAUCET THE WATER SUPPLY PIPE SHALL BE 3/4"ø TO THE BRANCH FOR THE BATHTUB
- 3. BASEMENT BATHROOM ROUGH-IN SHALL BE USED IN SIZING OF WATER PIPE
- 4. EXACT LOCATION OF ALL PLUMBING PIPING TO BE DETERMINED ON SITE

LEGEND

SYMBOL	DESCRIPTION (SEE PLAN FOR PIPE SIZING)
WM)	WATER METER, PROVIDE SUPPLY PIPE SIZE/ Ø
нв⊨	HOSE BIB
•	PROPOSED COLD WATER LINE & RISER
	PROPOSED HOT WATER LINE & RISER
⊕ FD	FLOOR DRAIN



GREENYORK HOMES

GRANELLI HOMES CORP BRAMPTON, ONTARIO

DESIGNS LTD.

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Sheet Title

BASEMENT PLUMBING LAYOUT

Date **JULY 2018** 3/16" = 1'-0"

LO# 78988-P

AMELIA 2

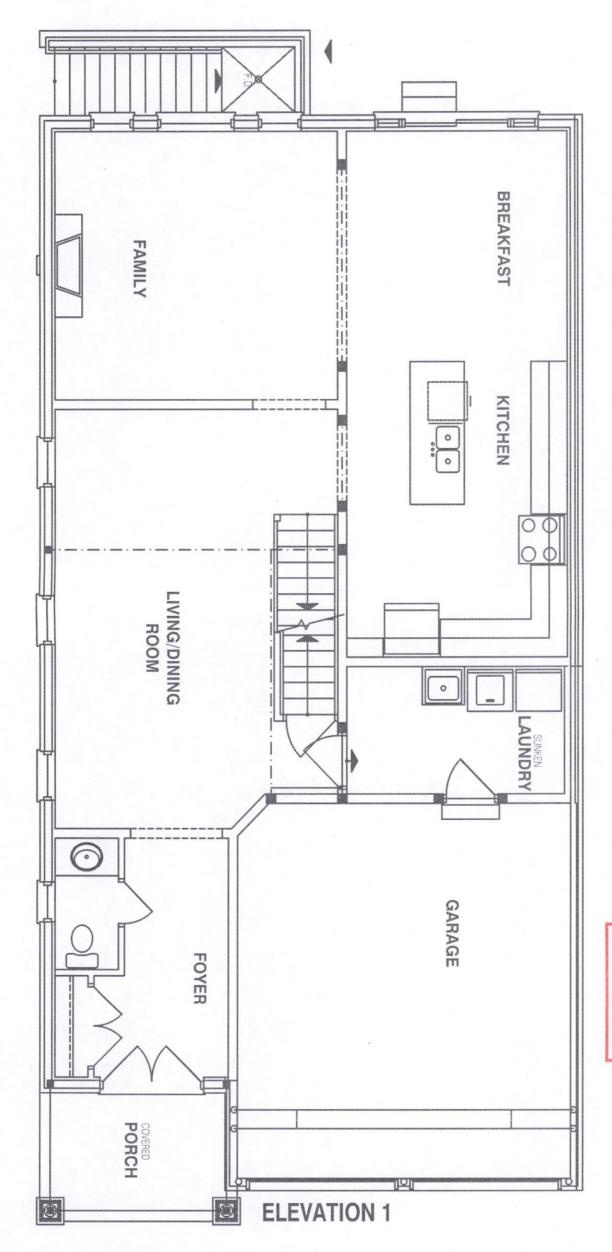
2818 sqft

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- 3. BASEMENT BATHROOM ROUGH-IN SHALL BE USED IN SIZING
- OF WATER PIPE
 4. EXACT LOCATION OF ALL PLUMBING PIPING TO BE DETERMINED ON SITE

LEGEND

DESCRIPTION (SEE PLAN FOR PIPE SIZING)
WATER METER, PROVIDE SUPPLY PIPE SIZE/ Ø
HOSE BIB
PROPOSED COLD WATER LINE & RISER
PROPOSED HOT WATER LINE & RISER
FLOOR DRAIN



CITY OF BRAMPTON BUILDING DIVISION REVIEWED

APR 0 1 2019

PLUMBING BY KOFI MORIEL



GREENYORK HOMES

GRANELLI HOMES CORP BRAMPTON, ONTARIO

M-2057 LOT 8

AMELIA 2

2818 sqft



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Specializing in Residential Mechanical Design Services

FIRST FLOOR **PLUMBING** LAYOUT

JULY 2018 3/16" = 1'-0"

78988-P LO#

NOTES

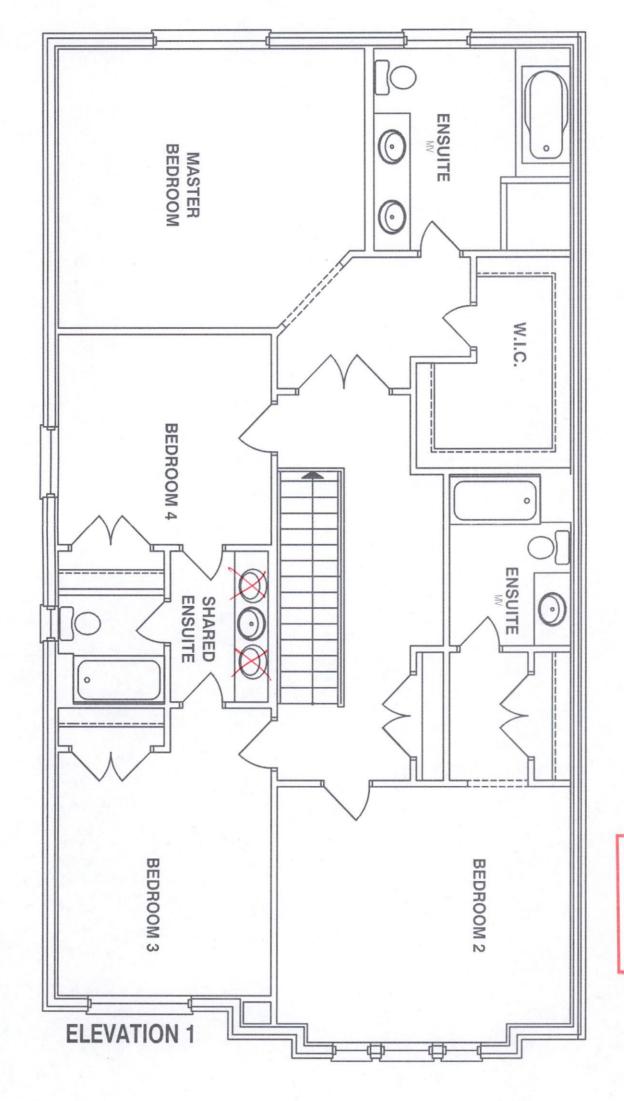
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2. WHERE A 3/4" TUB SPOUT/ SPIGOT CONNECTION IS USED ON THE BATHTUB FAUCET THE WATER SUPPLY PIPE SHALL BE 3/4" TO THE BRANCH FOR THE BATHTUB

3. BASEMENT BATHROOM ROUGH-IN SHALL BE USED IN SIZING OF WATER PIPE

4. EXACT LOCATION OF ALL PLUMBING PIPING TO BE DETERMINED ON SITE

LEGEND

SYMBOL	DESCRIPTION (SEE PLAN FOR PIPE SIZING)
	WATER METER, PROVIDE SUPPLY PIPE SIZE/ Ø
нв=	HOSE BIB
	PROPOSED COLD WATER LINE & RISER
	PROPOSED HOT WATER LINE & RISER
⊕ FD	FLOOR DRAIN



CITY OF BRAMPION BUILDING DIVISION REVIEWED

APR 0 1 2019

PLUMBING BY KOFI MORIEL



GREENYORK HOMES

Project Name

GRANELLI HOMES CORP BRAMPTON, ONTARIO

M-2057 LOT 8

AMELIA 2

2818 sqft



375 Finley Ave. Suite 202 - Ajax, Ontario L1S 2E2 Tel. 905.619.2300 - 905.420.5300 Fax 905.619.2375 Email: info@hvacdesigns.ca Web: www.hvacdesigns.ca Specializing in Residential Mechanical Design Services

SECOND FLOOR **PLUMBING** LAYOUT

JULY 2018 3/16" = 1'-0"

78988-P LO#