

	: LECC															DATE: Jan-17							IANGE RATE		HEAT L	OSS AT	۲°F.	72			CSA-F280
BUILDER		NPARK	HOME	S				YPE: I	VY 4				FA: 18	B64		LO# 71715		S	SUMME	ER NA	TURAL	AIR CH	ANGERATE (	0.087	HEAT	ΑΙΝ ΔΤ	۲°F.	14		E	NERGYST
ROOM USE			ŀ	MBR			ENS				E	BED-2		В	ED-3		1	BATH	l	1			l								
EXP. WALL	-			16			9					11			21			0					l			- 1					
CLG, HT	:			9			9					9	l		9		1	9													
1	FACT	ORS			- 1												1						1								
GRS.WALL AREA	LOSS	GAIN		144	- 1		81					99			189			0								- 1					
GLAZING	3			LOSS	GAIN	1	LOSS G	AIN			L	OSS G	AIN	L	OSS GA	1		LOSS	GAIN	ıl									i		
NORTI-	1 20.4	16.3	0	0	0	0	0	0			0	0	0	0	0 0		0	0	0							- 1			- 1		
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SOUTH	1 20.4	25.3	0	0	0	0	0	0			0	0	•	0	0 (		0	0	Ō						1	٦	TΟ	WN	OF	MIL	TON
WEST		41.9	30/	612	1257	<b>√</b> 3	265 5	545			0	0	0	0	0 0		0	0	o	1				Vi	PI AN						MENT
SKYLT	35.7	102.2	0	0	0	0		0			0	0	- 1	ō	0 0		0	ő	0	ł				MI	ILTON FLAN		· · · ·				ODEL
DOORS		4.7	0	0	ō	ō		ō			ō	0		0	0 0		١٠	ō	ō	1											
NET EXPOSED WALL		0.6	114	350	68	68		40			-	-		-	448 8		l o	n	0						UILDING: I						
NET EXPOSED BSMT WALL ABOVE GR		0.7	"	0	0	0		0			0			0	0 0		١٠	o	0					S	COTT SHE	RRIF	FFS		Α	NPR 7	, 2017
EXPOSED CLG	1	0.7	208	301	150	90	-	65					- 1	-	253 12		100	145	72					PL	ANS EXAMIN	ER					DATE
NO ATTIC EXPOSED CLG		1.2	0	0	0	0		0			0				47 2		100	0	0					_	either the issua		a per	rmit no	or carn	vina out	
EXPOSED FLOOR		0.5	56	131	25	0	-	0			-	-		0	0 0		48	-	-	1					spections by th						
BASEMENT/CRAWL HEAT LOSS		0.5	**		25	U	0	۰			140		63	U	0		48	112	22	1					l responsibility						
				0	i		-	- 1				0	- 1		•			0		1			1		e Ontario Build						
SLAB ON GRADE HEAT LOSS				0			0	- 1				0			0			0		1					de, both as ar						
SUBTOTAL HT LOSS				1394			604					1284		1	625			257							atutes and regu						
SUB TOTAL HT GAIN					1500			350					297		20:	<b>'</b>	1		94	1				Ву	-laws of the Re	egion of	ı Hali	ton an	a Iow	n of Mi	ton
LEVEL FACTOR / MULTIPLIER			0.20	0.31		0.20	0.31				0.20		0	.20 (			0.20						·		I	ı					
AIR CHANGE HEAT LOSS				439			190					404	1		612			81							1	- 1		R	ECE	EIVE	ח
AIR CHANGE HEAT GAIN					131			57					114		17				8											F MIL	
DUCTLOSS				183			0					169	l		0			34								-		IOVV	/IN O	I IVIIL	·ION
DUCT GAIN					265			0				:	209		0	1			10						İ	- 1		M	AR 2	9, 20	17
HEAT GAIN PEOPLE	240		2		480	0		0			1	:	240	1	24		0		0							ł					
HEAT GAIN APPLIANCES/LIGHTS	3				434			0					134		43				0										IV	Y 4	
TOTAL HT LOSS BTU/H	1			2016			794					1857	ı	2	137		ŀ	372									B	RI III T	DING	NIO F	SION
TOTAL HT GAIN x 1.3 BTU/H	1				3641		9	919				2	982		37	3			146									, O I L I	J 11 1 C	, ,,,	0.0.1
ROOM USE																															
	<b>=</b>			LV/DN					KT/F	M				L.	AUN		T	FOY		T	MUD	)						WOD			BAS
EXP. WALL	1		*.	LV/DN 20					KT/F						AUN 0			FOY 14			MUD 17	1				T	,	WOD 31			
EXP. WALL CLG. HT.	-		3,																			•					1				91
1	-	ORS .	5.	20					46						0			14			17	)					1	31			
1	FACTO			20					46						0			14			17							31 9			91 9
CLG. HT.	FACTO			20 10 200	GAIN				46 10 460						0 9 0	u		14 11 154	GAIN		17 11 187							31 9 279	GAIN		91 9 805
CLG. HT.	FACTO	GAIN		20 10	GAIN 0				46 10 460	ı.				U	0 9	1	8	14 11 154 LOSS		1 .	17 11 187	GAIN						31 9 279 LOSS	GAIN 0	0	91 9 805 LOSS GA
CLG. HT.  GRS. WALL AREA GLAZING	FACTO LOSS	GAIN 16.3	0	20 10 200 LOSS 0	0				46 10 460 LOS	S GAIN				L. 0	0 9 0 OSS GA	ų	8 0	14 11 154	131	1	17 11 187 LOSS	S GAIN 0			·	- 1	L 0	31 9 279 LOSS	0	0	91 9 805 LOSS GA
CLG. HT.  GRS.WALL AREA  GLAZING  NORTH  EAST	FACTO LOSS 20.4 20.4	GAIN 16.3 41.9	0 √28	20 10 200 LOSS 0 571	- 1				46 10 460 LOS 0 0	S GAIN 0 0			- 1	L. 0	0 9 0 OSS GA 0 0	1	1 -	14 11 154 LOSS 163		0	17 11 187 LOSS	GAIN 0 0					L 0 0	31 9 279 LOSS 0 0	0	0 0	91 9 805 LOSS GA 0 (
CLG. HT. GRS.WALL AREA GLAZING NORTH	FACTO LOSS 1 20.4 20.4 20.4	GAIN 16.3	0	20 10 200 LOSS 0	0 1174				46 10 460 LOS 0 0	S GAIN 0 0				L: 0 0 0	0 9 0 OSS GA 0 0	ı	ō	14 11 154 LOSS 163 0	131 0	0	17 11 187 LOSS 0	6 GAIN 0 0 0					L 0 0	31 9 279 LOSS 0 0	0 0	0 0 0	91 9 805 LOSS GA 0 (
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CLG. HT.  GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT.	FACTO LOSS 1 20.4 20.4 20.4 20.4 35.7 24.1	GAIN 16.3 41.9 25.3 41.9	0 <mark>√</mark> 28 0 0	20 10 200 LOSS 0 571 0	0 1174 0 0 0				460 460 LOS 0 0 0 0 0 0	S GAIN 0 0 0 7 2766 0 93				0 0 0 0 0	0 9 0 OSS GA 0 0 0 0 0 0	ı	0 0 0 0 0 25	14 11 154 LOSS 163 0 0 0	131 0 0 0 0 0	0 0 0 0 0	17 11 187 LOSS 0 0 0 0	6 GAIN 0 0 0 0 0 0				1	L 0 0 0 12 0	31 9 279 LOSS 0 0 0 245 0	0 0 0 503 0	0 0 0 0 0 20	91 9 805 LOSS GA 0 ( 0 ( 0 ( 0 ( 481 9
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CLG. HT.  GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL	FACTO LOSS 1 20.4 20.4 20.4 35.7 24.1 3.1 3.6	16.3 41.9 25.3 41.9 102.2 4.7 0.6 0.7	0 \$\sqrt{28}\$ 0 0 0 172 0	20 10 200 LOSS 0 571 0 0 0 528	0 1174 0 0 0 0 0				460 100 4600 LOS 0 0 0 0 0 0 /66 134' 0 0 0 20 481 374 114' 0 0	S GAIN 0 0 0 7 2766 0 93 7 222 0				0 0 0 0 0 0 0	0 9 0 OSS GA 0 0 0 0 0 0 0 0 0 0	ı	0 0 0 0 25 121	14 11 154 LOSS 163 0 0 0 0 601 371	131 0 0 0 0 116 72 0	0 0 0 0 20 167	17 11 187 LOSS 0 0 0 0 481 7 612	6 GAIN 0 0 0 0 0 93 99				1	L 0 0 0 12 0 0 0	31 9 279 LOSS 0 0 0 245 0 0 0 630	0 0 603 0 0 0	0 0 0 0 0 20 0	91 9 805 LOSS GA 0 ( 0 ( 0 ( 481 9 0 ( 51 1
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CLG. HT.  GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BISMT WALL ABOVE OR EXPOSED CLG NO A TITIC EXPOSED CLG EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SUBTOTAL HT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS	FACTO LOSS 1 20.4 1 20.4 1 20.4 1 20.4 1 20.4 1 20.4 1 20.4 1 20.4 20.4 20.4 20.4 20.4 20.4 20.4 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3	GAIN  16.3 41.9 25.3 41.9 102.2 4.7 0.6 0.7 0.7 1.2	0 √28 0 0 0 172 0 0 0	20 10 200 LOSS 0 571 0 0 0 0 628 0 0 0 0	0 1174 0 0 0 0 102 0 0 0				460 100 4600 LOS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	S GAIN 0 0 7 2766 0 93 7 222 0 92 0 0 3173			2	L C C C C C C C C C C C C C C C C C C C	0 9 0 OSS GA 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1	0 0 0 25 121 0 0	14 11 154 LOSS 163 0 0 0 601 371 0 0 0 0	131 0 0 0 116 72 0 0 0	0 0 0 0 20 167 0 0	17 11 187 LOSS 0 0 0 0 481 7 612 0 0 0 0	GAIN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				10 11 11 11 11 11 11 11 11 11 11 11 11 1	0 0 0 112 0 0 0 0 774 0 0	31 9 279 LOSS 0 0 0 245 0 0 0 0 630 0 0	0 0 0 503 0 0 122 0 0	0 0 0 0 0 20 0 14 0	91 9 805 COSS GA 0 0 0 0 0 0 0 481 9 0 0 551 1 0 0 2635 3168
CLG. HT.  GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED WALL ON A THIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS	FACTY LOSS 20.4 1 20.4 1 20.4 1 20.4 3 24.1 3 3.6 1 1.4 2 .3 2 .3	GAIN  16.3 41.9 25.3 41.9 102.2 4.7 0.6 0.7 0.7 1.2	0 √28 0 0 0 172 0 0 0	20 10 2000 LOSS 0 5771 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1174 0 0 0 0 102 0 0				460 100 4500 LOS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	S GAIN 0 0 7 2766 0 93 7 2222 0 92 0 0			2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 9 0 OOSS GA 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ı	0 0 0 25 121 0 0	14 11 154 LOSS 163 0 0 0 0 601 371 0 0 0 0 0 1136	131 0 0 0 116 72 0 0	0 0 0 0 20 167 0 0	17 11 187 LOSS 0 0 0 0 0 481 7 612 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 0 0 0 93 99 0 0				10 11 11 11 11 11 11 11 11 11 11 11 11 1	0 0 0 112 0 0 0 0 774 0 0	31 9 279 LOSS 0 0 0 245 0 0 0 0 630 0 0	0 0 0 503 0 0 122 0 0	0 0 0 0 0 20 0 14 0	91 9 805 LOSS GA 0 0 0 0 0 481 9 0 0 0 0 2635 3168 11.07 4323 6
CLG. HT.  GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED THOOR EXPOSED FLOOR BASEMENTICRAWL HEAT LOSS SUB TOTAL HT CASS SUB TOTAL HT GAIN LEVEL FAC TOR I MULTIPLIER AIR CHANGE HEAT GOSS AIR CHANGE HEAT GAIN DUCT LOSS	FACTY LOSS 20.4 1 20.4 1 20.4 1 20.4 3 24.1 3 3.6 1 1.4 2 .3 2 .3	GAIN  16.3 41.9 25.3 41.9 102.2 4.7 0.6 0.7 0.7 1.2	0 √28 0 0 0 172 0 0 0	20 10 200 LOSS 0 571 0 0 0 0 528 0 0 0 0 0 0 0	0 1174 0 0 0 0 102 0 0 0 1276				466 10  4660 LOS  0 0 0  0 0 0  0 0 0  66 134  0 0 0  128 185  0 0 0  0 0 0  3160	S GAIN 0 0 0 0 7 2766 0 93 7 222 0 92 0 0 0 3173 3 278			2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1	0 0 0 25 121 0 0	14 11 164 LOSS 163 0 0 0 0 601 371 0 0 0 0 0 1136	131 0 0 0 0 116 72 0 0 0 0	0 0 0 0 20 167 0 0	17 11 187 LOSS 0 0 0 0 481 7 612 0 0 0 0 993	GAIN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				10 11 11 11 11 11 11 11 11 11 11 11 11 1	0 0 0 112 0 0 0 0 774 0 0	31 9 279 LOSS 0 0 0 245 0 0 0 0 630 0 0	0 0 0 503 0 0 122 0 0	0 0 0 0 0 20 0 14 0	91 9 806 LOSS GA 0 0 0 0 0 0 481 9 0 0 0 0 0 0 0 0 0 0 0 0 0
CLG. HT.  GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BIMT WALL ABOVE OR EXPOSED CLG NO A TTIC EXPOSED CLG EXPOSED FLOOR BASEMENTICRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUB TOTAL HT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT GAIN DUCT LOSS DUCT GAIN	FACTY LOSS 1 20.4 20.4 35.7 24.1 3.6 1.3.6 2.3 2.3	GAIN  16.3 41.9 25.3 41.9 102.2 4.7 0.6 0.7 0.7 1.2	0 √28 0 0 0 172 0 0 0	20 10 2000 LOSS 0 5771 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1174 0 0 0 102 0 0 0 0 1276				460 100 4600 LOS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	S GAIN 0 0 0 7 2766 0 93 7 222 0 0 92 0 0 0 3173 3 278 0			0.	L 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 25 121 0 0 0	14 11 154 LOSS 163 0 0 0 0 601 371 0 0 0 0 0 1136	131 0 0 0 0 116 72 0 0 0 0	0 0 0 0 20 167 0 0 0	17 11 187 LOSS 0 0 0 0 0 481 7 612 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	S GAIN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				110000000000000000000000000000000000000	0 0 0 112 0 0 0 774 0 0	31 9 279 LOSS 0 0 0 245 0 0 0 0 630 0 0	0 0 0 503 0 0 122 0 0	0 0 0 0 0 20 0 14 0 0	91 9 805 COSS GA 0 0 0 0 0 0 481 9 0 0 0 51 1 0 0 0 2635 3168 10 1.07 4323 6
CLG. HT.  GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BIMI WALL ABOVE OR EXPOSED CLG NO A TITIC EXPOSED CLG EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SUBTOTAL HT LOSS SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS DUCT GAIN HEAT GAIN PEOPLE	FACTY LOSS 1 20.4 20.4 35.7 24.1 3.6 1.3.6 2.3 2.3	GAIN  16.3 41.9 25.3 41.9 102.2 4.7 0.6 0.7 0.7 1.2	0 √28 0 0 0 172 0 0 0	20 10 2000 LOSS 0 5771 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1174 0 0 0 0 102 0 0 0 0 1276				460 100 4500 LOS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	S GAIN 0 0 0 7 2766 0 9 9 9 2 0 0 9 2 0 0 0 3173 3 278 0 240			0.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 25 121 0 0	14 11 154 LOSS 163 0 0 0 0 601 371 0 0 0 0 0 1136	131 0 0 0 0 116 72 0 0 0 0 319	0 0 0 0 20 167 0 0	17 11 187 LOSS 0 0 0 0 0 481 7 612 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	S GAIN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				10 11 11 11 11 11 11 11 11 11 11 11 11 1	0 0 0 112 0 0 0 774 0 0	31 9 279 LOSS 0 0 0 245 0 0 0 0 630 0 0	0 0 0 503 0 0 0 122 0 0	0 0 0 0 0 20 0 14 0	91 9 805 COSS GA 0 0 0 0 0 0 0 481 9 0 0 551 1 0 0 2635 3168 10.07 4323 6
CLG. HT.  GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED BASEMENTIC EXPOSED CLG EXPOSED FLOOR BASEMENTICRAWL HEAT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS OUT TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS DUCT GAIN HEAT GAIN PEOPLE HEAT GAIN APPLIANCES/LIGHTS	FACTY LOSS 1 20.4 20.4 35.7 24.1 3.6 1.3.6 2.3 2.3	GAIN  16.3 41.9 25.3 41.9 102.2 4.7 0.6 0.7 0.7 1.2	0 √28 0 0 0 172 0 0 0	20 10 200 LOSS 0 571 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1174 0 0 0 102 0 0 0 0 1276				460 100 4600 LOS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	S GAIN 0 0 0 0 7 2766 0 93 7 222 0 0 0 3173 3 278 0 240 434			0.	L 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 25 121 0 0 0	14 11 154 LOSS 0 0 0 0 601 371 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	131 0 0 0 0 116 72 0 0 0 0	0 0 0 0 20 167 0 0 0	17 11 187 LOSS 0 0 0 0 0 0 481 7 612 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	S GAIN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				110000000000000000000000000000000000000	L 0 0 0 112 0 0 0 0 74 0 0	31 9 279 COSS 0 0 0 0 246 0 0 0 630 0 0 0 876	0 0 0 503 0 0 122 0 0	0 0 0 0 0 0 20 0 14 0 0	91 9 805 COSS GA 0 0 0 0 481 9 0 0 0 0 2635 3168 1.07 4323 6
CLG. HT.  GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED CLG EXPOSED CLG NO A TITIC EXPOSED CLG EXPOSED CLG SALBE ON GRADE HEAT LOSS SUBTOTAL HT CASS SUB TOTAL HT GAIN LEVEL FACTOR' MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS DUCT GAIN DUCT GAIN HEAT GAIN PEOPLE	FACTY LOSS 1 20.4 20.4 35.7 24.1 3.6 1.3.6 2.3 2.3	GAIN  16.3 41.9 25.3 41.9 102.2 4.7 0.6 0.7 0.7 1.2	0 √28 0 0 0 172 0 0 0	20 10 200 LOSS 0 571 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1174 0 0 0 0 102 0 0 0 0 1276				460 100 4600 LOS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	S GAIN 0 0 0 0 7 2766 0 93 7 222 0 0 0 3173 3 278 0 240 434			0.	L 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 25 121 0 0 0	14 11 154 LOSS 163 0 0 0 0 601 371 0 0 0 0 0 1136	131 0 0 0 0 116 72 0 0 0 0 319	0 0 0 0 20 167 0 0 0	17 11 187 LOSS 0 0 0 0 0 481 7 612 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	S GAIN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				110000000000000000000000000000000000000	L 0 0 0 112 0 0 0 0 74 0 0	31 9 279 Coss 0 0 0 0 246 0 0 0 630 0 0 0 876	0 0 0 503 0 0 122 0 0	0 0 0 0 0 0 20 0 14 0 0	91 9 805 COSS GA 0 0 0 0 0 0 0 481 9 0 0 551 1 0 0 2635 3168 10.07 4323 6

TOTAL HEAT GAIN BTU/H:

23294

TONS: 1.94

LOSS DUE TO VENTILATION LOAD BTU/H: 2286

STRUCTURAL HEAT LOSS: 24953

TOTAL COMBINED HEAT LOSS BTU/H: 27239

Mehant Oxomba.



INLET GRILL SIZE

		LECCO		MEC				TYPE: IVY	,				DATE.	lan 17			OEA.	4004	1.04	74745				
HEATING CFM TOTAL HEAT LOSS AIR FLOW RATE CFM	895			LING CFM EAT GAIN	22.852		a	furnace pres furnace a/c coil pres vailable press for s/a	sure filter sure sure	0.6 0.05 0.2 0.35			DATE:	Jan-17			GFA: AMEC9603 FAN	;	LO# #AMANA 30			AFUE = (BTU/H) = (BTU/H) =	30,000	
RUN COUNT	4th	3rd	2nd	1st	Bas													EDLOW			DESI	GN CFM =		
S/A R/A	0	0	8 3	<u>5</u> 2	<u>4</u> 1			enum pressure s/a dif press.		0.18 0.03	r/-		pressure ess. Loss	0.17 0.02				MEDIUM M HIGH	557			CFM @ .	6 " E.S.P.	
All S/A diffusers 4"x10" unle						į.		isted pressure		0.05			ssure r/a	0.02			MEDIO	HIGH	895	т	EMPERAT	URE RISE	30	°F
All S/A runs 5"Ø unless not	ed other	vise on la 2	yout.	4	5	6	7			10		12					<u></u>							
ROOM NAME RM LOSS MBH. CFM PER RUN HEAT RM GAIN MBH. CFM PER RUN COOLING ADJUSTED PRESSURE	MBR 1.01 36 1.82 71 0.17	ENS 0.79 28 0.92 36 0.17		BED-2 1.86 67 2.98 117 0.15	BED-3 1.07 38 1.88 74 0.17	BED-3 1.07 38 1.88 74 0.17	BATH 0.37 13 0.15 6 0.17			MBR 1.01 36 1.82 71 0.17		12 LV/DN 1.55 55 2.37 93 0.16		14 KT/FM 2.22 80 2.68 105 0.16	15 KT/FM 2.22 80 2.68 105 0.16		17 LAUN 0.43 15 0.79 31 0.17		19 FOY 1.60 57 0.45 18 0.17	20 MUD 1.40 50 0.84 33 0.17	21 BAS 2.09 75 0.40 16 0.17	22 BAS 2.09 75 0.40 16 0.17	23 BAS 2.09 75 0.40 16 0.17	24 BAS 2.09 75 0.40 16 0.17
ACTUAL DUCT LGH. EQUIVALENT LENGTH TOTAL EFFECTIVE LENGTH ADJUSTED PRESSURE	33 140 173 0.1	21 170 191 0.09		64 110 174 0.09	38 140 178 0.1	45 110 155 0.11	47 150 197 0.09			42 175 217 0.08		29 110 139 0.12		23 120 143 0.11	29 110 139 0.12		35 130 165 0.1		37 100 137 0.13	38 130 168 0.1	19 130 149 0.12	30 140 170 0.1	27 90 117 0.15	26 100 126 0.14
ROUND DUCT SIZE HEATING VELOCITY (ft/min) COOLING VELOCITY (ft/min) OUTLET GRILL SIZE TRUNK	5 264 521 3X10 B	4 321 413 3X10 B		6 342 597 4X10 A	5 279 543 3X10 C	5 279 543 3X10 C	4 149 69 3X10 A			5 264 521 3X10 A		5 404 683 3X10 C		6 408 535 4X10 B	6 408 535 4X10 A		4 172 356 3X10 B		4 654 207 3X10 C	4 574 379 3X10 A	5 551 117 3X10 B	5 551 117 3X10 A	5 551 117 3X10 B	5 551 117 3X10 C
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																						OWN C MAR 2 IV	EIVED F MILT 29, 2017 YY 4 3 DIVIS	ON ,
SUPPLY AIR TRUNK SIZE  TRUNK A TRUNK B TRUNK C TRUNK D TRUNK E TRUNK F	TRUNK CFM 321 630 263 0 0	STATIC PRESS. 0.08 0.08 0.10 0.00 0.00 0.00	ROUND DUCT 9.2 11.8 8 0	RECT DUCT 10 18 8 0 0	x x x x x	8 8 8 8 8	VELOCITY (ft/min) 578 630 592 0 0	TRUI TRU TRU TRUI	NK G NK H JNK I NK J NK K	TRUNK	STATIC PRESS. 0.00 0.00 0.00 0.00 0.00 0.00 0.00	ROUND DUCT 0 0 0 0 0	RECT DUCT 0 0 0 0 0	x x x x x	8 8 8 8	VELOCITY (ft/min) 0 0 0 0	TRUNK O TRUNK O TRUNK Q TRUNK Q TRUNK R TRUNK S TRUNK T TRUNK U TRUNK V	IR TRUNK TRUNK CFM 0 0 0 0 0 0 0 0	SIZE STATIC PRESS. 0.06 0.06 0.06 0.06 0.06 0.06 0.06	ROUND DUCT 0 0 0 0 0 0	RECT DUCT 0 0 0 0 0 0	x x x x x	8 8 8 8 8	VELOCITY (ft/min) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
RETURN AIR #  AIR VOLUME PLENUM PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH TOTAL EFFECTIVE LH ADJUSTED PRESSURE ROUND DUCT SIZE INLET GRILL SIZE	1 0 130 0.15 58 180 238 0.06 7 8	2 0 130 0.15 64 180 244 0.06 7 8	3 0 130 0.15 73 180 253 0.06 7 8	4 0 180 0.15 34 155 189 0.08 7.4 8 X	5 0 185 0.15 38 145 183 0.08 7.5 8	0 0 0.15 1 0 1 14.80 0 0	0 0 0.15 1 0 1 14.80 0 0	0.15 0. 1 0 0 1 7	) 15 1 ) ) 1 .80 )	0 0 0.15 1 0 1 14.80 0 0	0 0 0.15 1 0 1 14.80 0 0	0 0 0.15 1 0 1 14.80 0 0	0 0 0.15 1 0 1 14.80 0 0 X	0 0 0.15 1 0 1 14.80 0 0 X	0 0 0.15 1 0 1 14.80 0 0	140 0.15 20 175 195 0.08 6.7 8 X	TRUNK W TRUNK X TRUNK Y TRUNK Z DROP	0 895 440 0 895	0.06 0.06 0.06 0.06 0.06	0 14.5 11.1 0 14.5	0 0 24 14 0 24	x x x x x	8 8 8 8 10	0 0 671 566 0 537



TYPE:

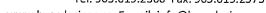
IVY 4

SITE NAME: LECCO RIDGE

LO# 71715

#### RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

COMBUSTION APPLIANCES	9.32.3.1(1)	SUPPLEMENTAL		9.32.3.5.				
a) Virect vent (sealed combustion) only		Total Ventilation Ca	pacity			159	_	cſm
b) Positive venting induced draft (except fireplaces)		Less Principal Venti	il. Capacity			86	_	cfm
c) Natural draft, B-vent or induced draft gas fireplace		Required Suppleme	ental Capacit	у		73.0	_	cfm
d) Solid Fuel (including fireplaces)								
e) No Combustion Appliances		PRINCIPAL EXHAU	UST FAN CA	PACITY				
		Model:	VAN	NEE 40H+	***************************************	Location:	I	вямт
HEATING SYSTEM		86.0	cfm	3.0	sones		<b>~</b>	HVI Approved
Forced Air Non Forced Air		PRINCIPAL EXHAU	UST HEAT L		ATION			
		86.0 CFM	Х	ΔΤ °F 72 F	Х	FACTOR 1.08	х	% LOSS 0.34
Electric Space Heat		SUPPLEMENTAL F	FANS			NUTONE		
HOUSE TYPE	0.00.4(0)	Location		Model		cfm	HVI	Sones
	9.32.1(2)	ENS BATH		QTXEN050C QTXEN050C		50 50	1	0.3
I Type a) or b) appliance only, no solid fuel								
II Type I except with solid fuel (including fireplaces)		11212222222						
III Any Type c) appliance		HEAT RECOVERY Model:		VANEE 40H+				9.32.3.11.
IV Type I, or II with electric space heat		86		cfm high		37	-	cfm low
Other: Type I, II or IV no forced air		66		ensible Efficiend 2 deg F ( 0 deg :	•		<b>✓</b>	HVI Approved
		[						
SYSTEM DESIGN OPTIONS	O.N.H.W.P.	LOCATION OF INS	TALLATION					VED
1 Exhaust only/Forced Air System		Lot:			C			MILTON
		Township			PI	IVI	IVY	, 2017 4
		Address				BUILD	ING I	DIVISION
3 HRV Simplified/connected to forced air system		Roll #				OWN	OF I	MILTON
4 HRV with Ducting/non forced air system		BUILDER:	GR	MILTON PL	ANNING	AND D	EVEL	OPMENT 4 MODEL
Part 6 Design		Name:		BUILDING	: REVIE	EWED		4 MODEL
TOTAL VENTILATION CAPACITY	9.32.3.3(1)	Address:		SCOTT SH		FS	AF	PR 7, 2017 DATE
Basement + Master Bedroom 2 @ 21.2 cfm 42.4	cfm			Neither the iss	suance of a	a permit no	r carryir	
		City:		full responsibi the Ontario Bu	lity for com	pliance wit	h the pr	ovisions of
Other Bedrooms 2 @ 10.6 cfm 21.2	cfm	Telephone #:		Code, both as statutes and re	amended	, as well as	other a	pplicable
Kitchen & Bathrooms	cfm	INSTALLING CONT	RACTOR	By-laws of the	Region of	Halton and	d Town	of Milton
Other Rooms <u>5</u> @ 10.6 cfm <u>53.0</u>	cfm	Name:						
Table 9.32.3.A. TOTAL <u>159.0</u>	cfm	Address:						
		City:						
PRINCIPAL VENTILATION CAPACITY REQUIRED	9.32.3.4.(1)	Telephone #:			Fa	x #:		
1 Bedroom 31.8 cfm		DESIGNER CERTIF	ICATION					
2 Bedroom 47.7 cfm		I hereby certify that i	this ventilatio		een desigr	ned		
3 Bedroom 63.6 cfm		Name:		AC Designs Ltd.				
4 Bedroom 79.5 cfm		Signature:		fl.	Michael C	Kounte	•	
5 Bedroom 95.4 cfm		HRAI#			00	1820		
More than 5 - Part 6 TOTAL 63.6 cfm		Date:				uary-17		
I REVIEW AND TAKE RESPONIBILITY FOR THE DESIGN WORK AND AM QUAL	IFIED IN THE APPR	ROPRIATE CATEGORY AS AN	"OTHER DESIG	SNER" UNDER DIVI	SION C, 3.2.5	OF THE BUIL	DING CO	DE.





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

#### **HEAT LOSS AND GAIN SUMMARY SHEET**

MODEL:	IVY 4			BUILDER: GREENPARK HOMES	
SFQT:	1864	LO#	71715	SITE: LECCO RIDGE	
DESIGN A	SSUMPTIONS				
HEATING			°F	COOLING	°F
OUTDOOR	DESIGN TEMP.		0	OUTDOOR DESIGN TEMP.	86
INDOOR D	ESIGN TEMP.		72	INDOOR DESIGN TEMP. (MAX 75°F)	72
BUILDING	DATA				
ATTACHM	ENT:		ATTACHED	# OF STORIES (+BASEMENT):	3
FRONT FA	CES:		EAST	ASSUMED (Y/N):	Y
AIR CHANG	GES PER HOUR:		3	ASSUMED (Y/N):	Υ
AIR TIGHT	NESS CATEGORY:		TIGHT	ASSUMED (Y/N):	Υ
WIND EXP	OSURE:		SHELTERED	ASSUMED (Y/N):	Υ
HOUSE VO	PLUME (ft³):		25506.0	ASSUMED (Y/N):	Υ
INTERNAL	SHADING:	BLIND	s/curtains	ASSUMED OCCUPANTS:	4
INTERIOR	LIGHTING LOAD (Btu/h,	/ft²):	1.27	DC BRUSHLESS MOTOR (Y/N):	Υ
FOUNDAT	ION CONFIGURATION		BCIN_1	DEPTH BELOW GRADE:	6.8 ft
LENGTH:	49.0 ft	WIDTH:	21.0 ft	EXPOSED PERIMETER:	91.0 ft

2012 OBC - COMPLIANCE PACKAGE			
		Compliance	Package
Component		ENERG	YSTAR
		Nominal	
Ceiling with Attic Space Minimum RSI (R)-Value		50	
Ceiling Without Attic Space Minimum RSI (R)-Value		31	
Exposed Floor Minimum RSI (R)-Value		31	
Walls Above Grade Minimum RSI (R)-Value		20+3.6	
Basement Walls Minimum RSI (R)-Value		20	
Below Grade Slab Entire surface > 600 mm below grade Minimum RSI	R)-Value	-	
Edge of Below Grade Slab ≤ 600 mm Below Grade Minimum RSI (R)-Va	ue	10	
Heated Slab or Slab ≤ 600 mm below grade Minimum RSI (R)-Value	DEGENTED	10	
Windows and Sliding Glass Doors Maximum U-Value	RECEIVED TOWN OF MILTON	ZONE 2	
Skylights Maximum U-Value	MAR 29, 2017	ZONE 2	
Space Heating Equipment Minimum AFUE	0.95		
HRV Minimum Efficiency	65%		
Domestic Hot Water Heater Minimum EF	BUILDING DIVISION	90% TE	

INDIVIDUAL BCIN: 19669 MICHAEL O'ROURKE





## **Residential Foundation Thermal Load Calculator**

Supplemental tool for CAN/CSA-F280

We	eather Sta	tion Description
Province:	Ontario	•
Region:	Milton	
	Site D	escription
Soil Conductivity:	Normal o	conductivity: dry dand, loam, clay
Water Table:	Normal (	7-10 m, 23-33 ft)
F	oundatio	n Dimensions
Floor Length (m):	14.9	
Floor Width (m):	6.4	
Exposed Perimeter (m):	27.7	
Wall Height (m):	2.7	
Depth Below Grade (m):	2.07	Insulation Configuration
Window Area (m²):	1.1	
Door Area (m²):	1.9	
	Radi	ant Slab
Heated Fraction of the Slab:	0	
Fluid Temperature (°C):	33	
	Desig	n Months
Heating Month	1	
	Founda	tion Loads
Heating Load (Watts):		772

**TYPE:** IVY 4 **LO#** 71715

RECEIVED TOWN OF MILTON MAR 29, 2017 IVY 4 BUILDING DIVISION



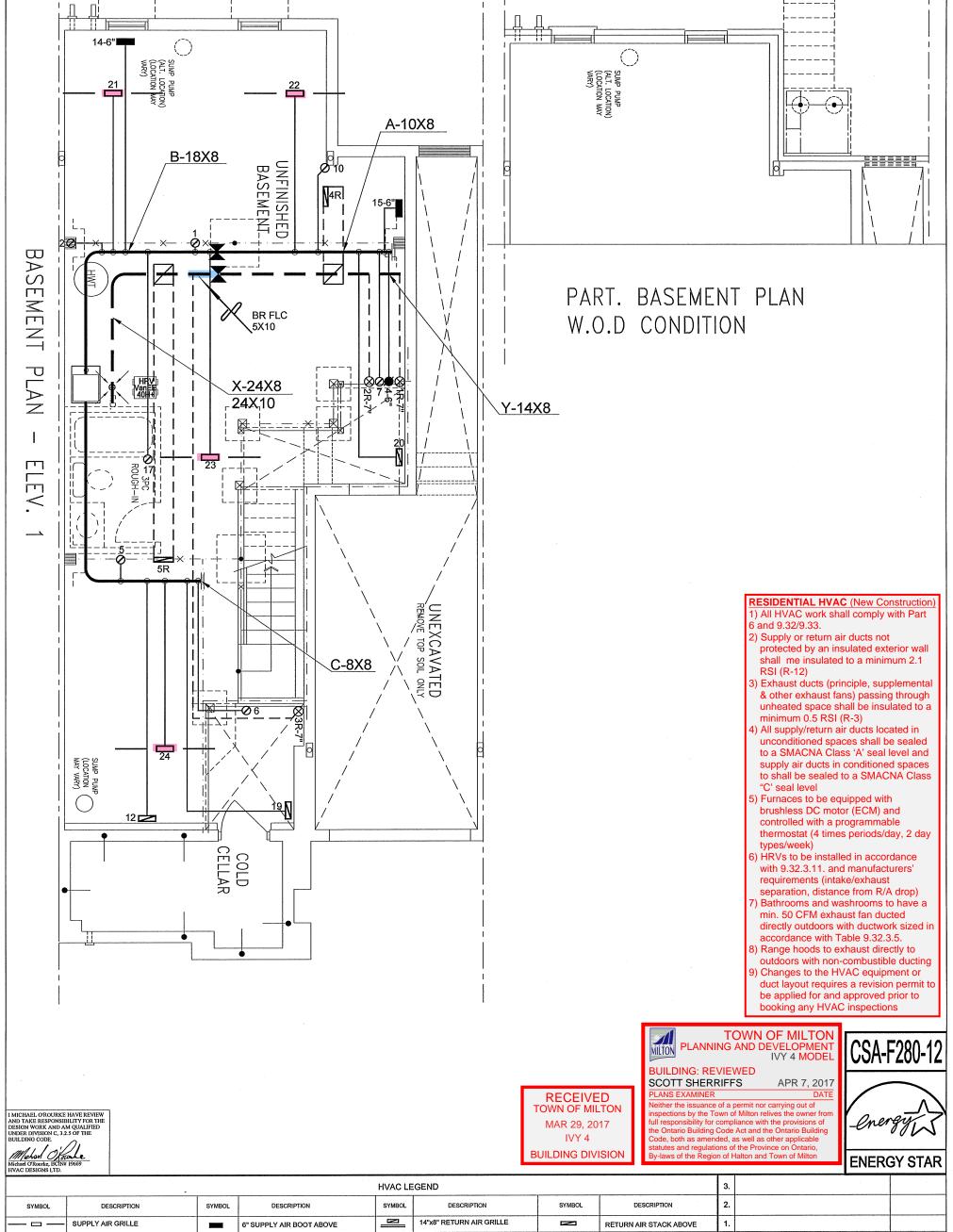
## **Air Infiltration Residential Load Calculator**

Supplemental tool for CAN/CSA-F280

Weather Statio	n Des	cript	ion						
Province:	Ontar	io							
Region:	Milto	n							
Weather Station Location:	Open flat terrain, grass								
Anemometer height (m):	10								
Local Sh	ieldin	<del></del>							
Building Site:	Subur	ban, fo	orest						
Walls:	Heavy	/							
Flue:	Heavy	/							
Highest Ceiling Height (m):	6.46								
Building Cor	figura	ation							
Type:	Semi								
Number of Stories:	Two								
Foundation: Full									
House Volume (m³):	722.2								
Air Leakage/	Venti	atior	1						
Air Tightness Type:	Energ	y Star	Attach	ed (3.0	ACH)				
Custom BDT Data:	ELA @	9 10 Pa	١.		809.1 cm <sup>2</sup>				
	3.00				ACH @ 50 Pa				
Mechanical Ventilation (L/s):	To	tal Sup	ply		Total Exhaust				
		40.6			40.6				
Flue S	Size								
Flue #:	#1	#2	#3	#4					
Diameter (mm):	0	0	0	0					
Natural Infilt	ation	Rate	S						
Heating Air Leakage Rate (ACH/H):		C	.26						
Cooling Air Leakage Rate (ACH/H):		C	.08	7					

**TYPE:** IVY 4 **LO#** 71715

RECEIVED TOWN OF MILTON MAR 29, 2017 IVY 4 BUILDING DIVISION





		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	<b>1583</b>	RETURN AIR STACK 2nd FLOOR	No.	Description	Date
	SUPPLY AIR BOOT ABOVE	6	6" SUPPLY AIR STACK 2nd FLOOR		FRA- FLOOR RETURN AIR GRILLE	Y	REDUCER		REVISIONS	

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### **GREENPARK HOMES**

Project Name

LECCO RIDGE MILTON, ONTARIO

# 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

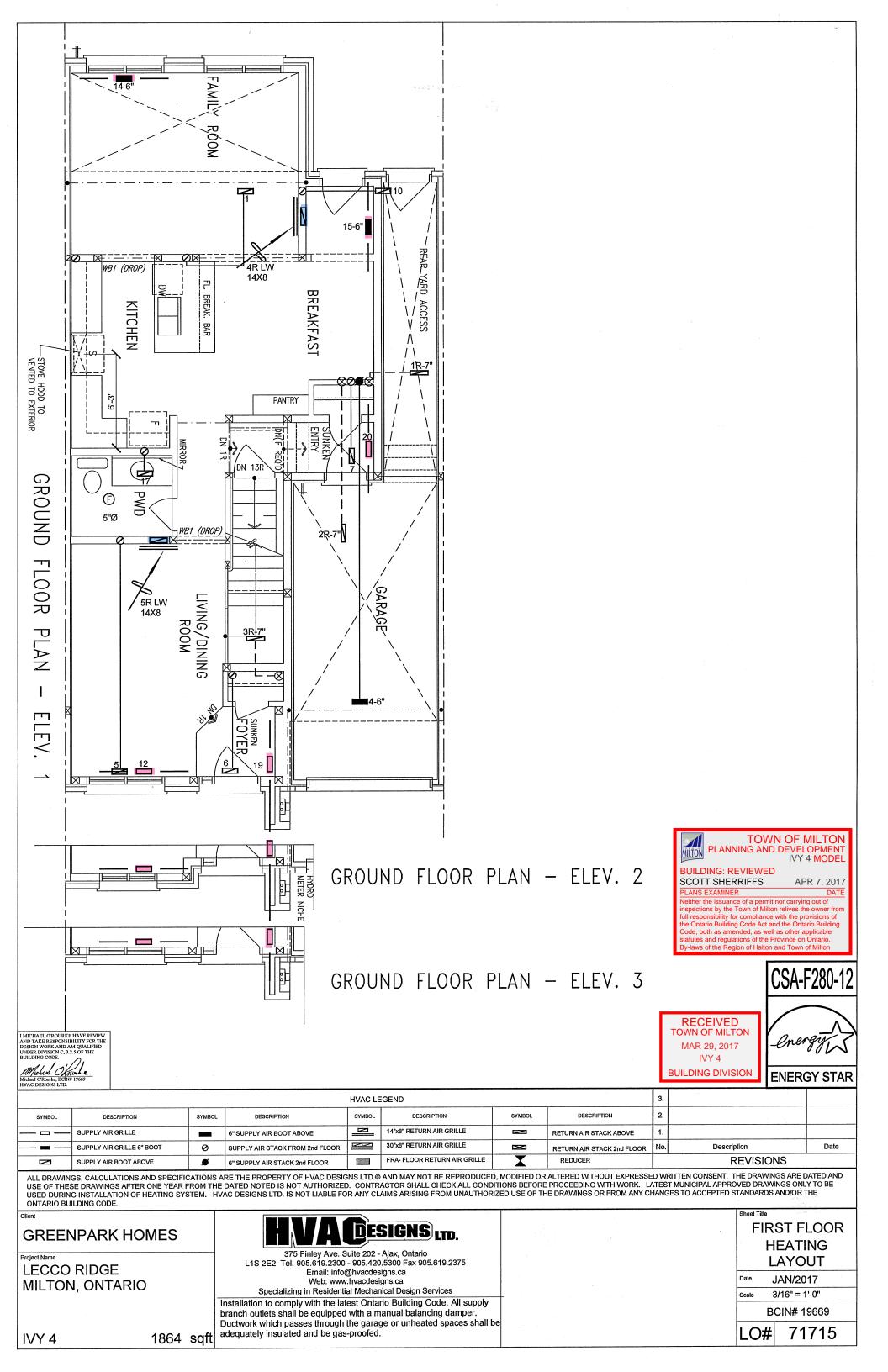
Installation to comply with the latest Ontario Building Code. All supply branch outlets shall be equipped with a manual balancing damper. Ductwork which passes through the garage or unheated spaces shall be adequately insulated and be gas-proofed.

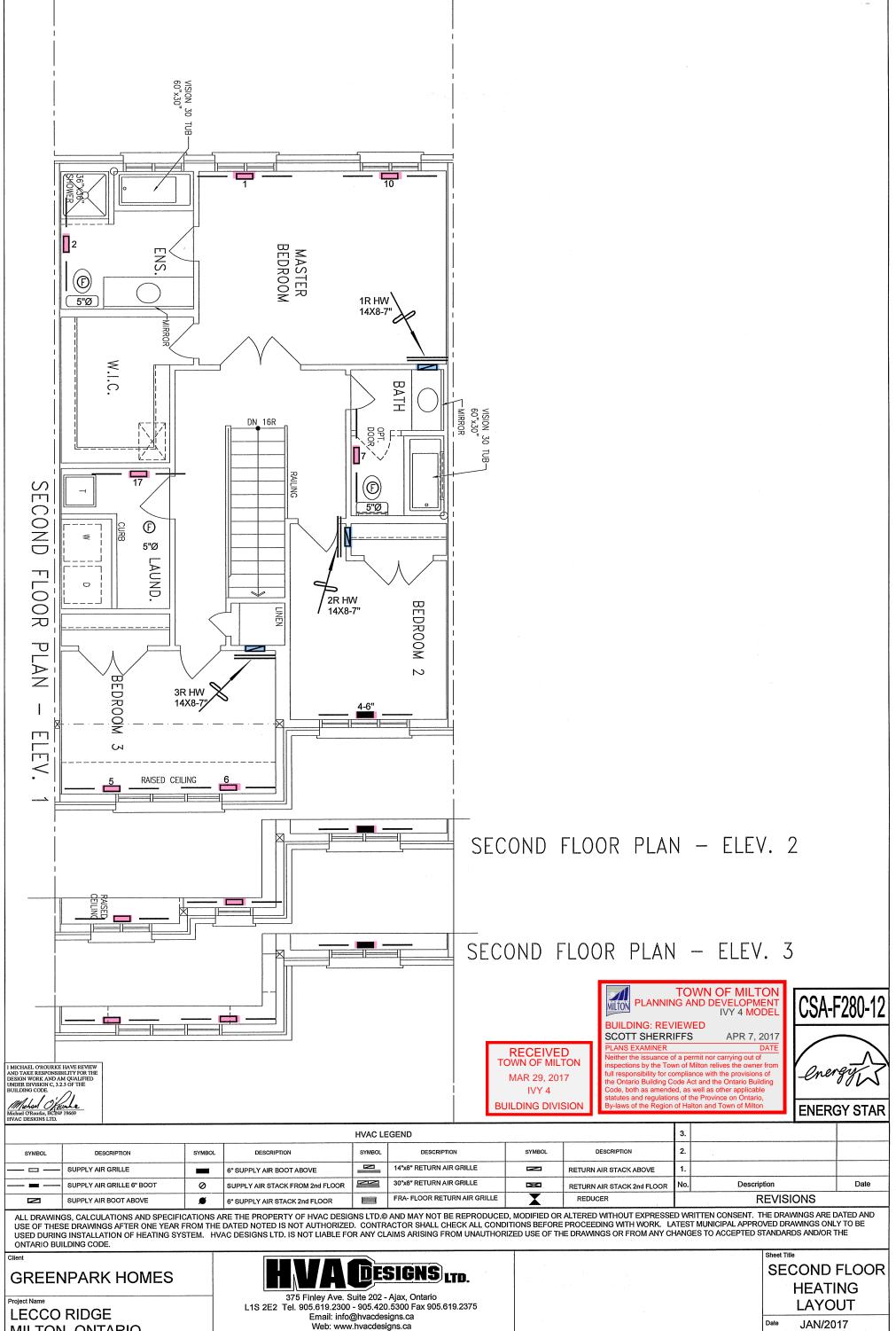
	ED OSE OF	THE DRAWING	35 OK FRO	JW ANT CHANGE	3107	COLI	ILDO	IMPARDO	AND/OR THE
	HEAT L	OSS 27239	BTU/H	# OF RUNS	S/A	R/A	FANS	Sheet Title	
		UNIT DATA		3RD FLOOR				BA	SEMENT
	MAKE	AMANA		2ND FLOOR	8	3	3		EATING
	MODEL AMEC	960302BNA	-30	1ST FLOOR	5	2	2	L	AYOUT
	INPUT	30	MBTU/H	BASEMENT	4	1	0	Date	JAN/2017
_	OUTPUT		MBTU/H	ALL S/A DIFFUS	SERS	4 "x10	"	Scale	3/16" = 1'-0"
	COOLING	28.8	TONS	UNLESS NOTE			-	В	CIN# 19669
е		2.0	TONS	UNLESS NOTE	D OTH	IERW			74745
	FAN SPEED	895	cfm @ 0.6" w.c.	ON LAYOUT. U DOORS 1" min.				LO#	71715

0.6" w.c. DOORS 1" min. FOR R/A

IVY 4

1864 sqft





MILTON, ONTARIO

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.

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

71715 LO#

IVY 4

1864 sqft