

BUILDER:		RIDG																:: Jan-17				WINT	ER NA	TURAL AIR	CHANGE RATE 0.	.250	HEAT LOSS	S AT °F	- . 72			CSA-F2	80-12
r		IPARK	HOME	ES				TYPE:	IVY 11				G	FA: 2	256		LO#	71719			S	UMME	ER NA	TURAL AIR	CHANGE RATE 0.	.076	HEAT GAIN	V ΔT °F	14		E	NERGY	STAR
ROOM USE				MBR			ENS			WIC		В	BED-2		Е	BED-3		BED-4			BATH		T					T					
EXP. WALL	l			32			9			0			11	- 1		34	ŀ	21			10		1					1					
CLG. HT.				9			9			9			9	- 1		10	l	9		l	9												
	FACTO	ors I															1			İ			1										- 1
GRS.WALL AREA				282			79			0			97	- 1		340	1	185		l	88										i		ı
GLAZING				LOSS	CVIN		LOSS	CVIN	l ,	LOSS G	SVINI		.oss g	AINI		.OSS GAIN	1	LOSS	CAIN	l	LOSS	CAIN			-						l		
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EAST						0	-	-		-	-	-		- 1	-		1		0	0	0	0	1 .		1		<u>'</u>				<u>'</u>		
	20.4	40.7	0	0	0	-	0	0	0	0	0					469 936	0	0	0	0	0	0			•		41	T	OW	N OI	F MI	LTON	J
SOUTH	20.4	24.5	36	734	883	0	0	0	0	0	0	0	0			367 442	36	734	883	11	224	270	1				PLANN	ING	AND	DEV	FLOE	DWEVI.	Ť
WEST	ı	40.7	22	449	896	16	326	651	0	0	0	0	0.		0	0 0	0	0	0	0	0	0				M	MILION WILL		71110			NODE	
SKYLT.	35.7	102.0	0	0	0	0	0	0	0	0	0	0	0		0	0 0	0	0	0	0	0	0			1							NODE	-
DOORS		4.5	0	0	0	0	0	0	0	0	0	0	0		0	0 0	0	0	0	0	0	0				В	BUILDING: RE	EVIE	WED)			
NET EXPOSED WALL		0.6	224	686	129	63	194	36	0	0	0	57	174	33 2	299	917 172	149	456	86	77	236	44	ł			S	COTT SHER	RIFF	-s		APR	7, 201	7
NET EXPOSED BSMT WALL ABOVE GR		0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0				_	LANS EXAMINER					DAT	_ 1
EXPOSED CLG	1.4	0.7	252	365	179	126	182	90	63	91	45	132	191	94	96	139 68	269	390	192	104	151	74				_							=
NO ATTIC EXPOSED CLG	2.3	1.1	0	0	0	0	0	0	0	0	0	0	0	0	24	56 28	27	63	31	0	0	0	1			in	either the issuance spections by the T	e or a p	permit	nor car	c the o	ul OI woor from	, II
EXPOSED FLOOR	2.3	0.4	0	0	0	0	. 0	0	0	0	0	132	308	58	0	0 0	12	28	5	0	0	0					Ill responsibility for						"
BASEMENT/CRAWL HEAT LOSS				0			0			0			0			0	1	0			0		1				ie Ontario Building						
SLAB ON GRADE HEAT LOSS				0			Ō			0	5		0			0	1	0		1	0						ode, both as amer						
SUBTOTAL HT LOSS	l			2234			703			91		4	1490			1949		1672			611						atutes and regulat						
SUB TOTAL HT GAIN	l	ĺ			2087			778			45			813		1646	l		1197	i	• • • •	388	İ			By	y-laws of the Region	on of H	Halton	and To	wn of N	lilton	
LEVEL FACTOR / MULTIPLIER			0.20	0.22		0.20	0.22		0.20	0.22		0.20			0.20		1	0.22		0.20	0.22	200			1 '						-		
AIR CHANGE HEAT LOSS	l		*****	501			158			20			334	- 1		437	****	375			137		İ					1 1		REC	EIVE	=D	
AIR CHANGE HEAT GAIN	l				126			47	l		3			109		99		0.0	72			23	1.					1 1				LTON	
DUCT LOSS	1			0	120		0	7,	Ì	0	١		182	100		0		205	12		0	23						11	10	VVIN C	וואו דע	LION	
DUCT GAIN				٠	0		U	0	l	v	0			263		0		200	198		٠	0						1 1	1	MAR	29, 20)17	
HEAT GAIN PEOPLE	240		2		480	0		0	٥		0	1		- 1	1	240	1		240	٥		0						1 1					
HEAT GAIN APPLIANCES/LIGHTS	240		2		472			0	ľ		١	'		172		472	Ι'			ľ		0						1 1		JUNII	PER 1	IF	
TOTAL HT LOSS BTU/H				2735	412		860	U		112	١		2006	*"~		2386		2251	472		748	U						1 1	BUI	I DIN	G DIV	/ISION	
TOTAL HT GAIN x 1.3 BTU/H	1			2133	4115			1072		112	62	1		767		2300 3195	1		2833		140	535										10101	
101112111 011111 110 01011	·				4110			1012	l		02			101		3130	Ь		2000	ļ		333	ــــــــــــــــــــــــــــــــــــــ				l				L		
ROOM USE	T																																
	ı			OFF			DIN			KT/FM	1				L	AUN	1	W/R		Γ	FOY		1	MUD			f	T	WOE)		BAS	
EXP. WALL				OFF 36			DIN 31			KT/FM 40					L	AUN 0		W/R 4			FOY 11			MUD 6					WOE 23)		BAS 134	
EXP. WALL CLG. HT.															L						FOY 11 10								WOE 23 9)		BAS 134 9	
CLG. HT.	FACTO	ors		36			31			40					L	0		4			11			6					23)		134	
CLG. HT.	FACTO			36			31			40					L	0		4			11			6					23 9)		134 9	
CLG. HT.	FACTO LOSS			36 10 360	GAIN		31 10 310	GAIN		40 10 400	GAIN					0 9 0		4 11 44	GAIN		11 10 110	GAIN		6 11 66	N				23 9 202			134 9 1049	GAIN
CLG. HT. GRS.WALL AREA GLAZING	FACTO LOSS	GAIN	0	36 10 360 LOSS		0	31 10 310 LOSS			40 10 400 LOSS (- 1					0 9 0 .oss gair	1	4 11 44 LOSS			11 10 110 LOSS	GAIN	1	6 11 66 LOSS GAI	N			10	23 9 202 LOSS	S GAIN	4	134 9 1049 LOSS (GAIN
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CLG. HT. GRS.WALL AREA GLAZING NORTH EAST	FACTO LOSS 20.4 20.4	GAIN 15.9 40.7	32	36 10 360 LOSS 0 653	0 1303	0	31 10 310 LOSS 0	0 0	0	40 10 400 LOSS 0 0	0					0 9 .OSS GAIN 0 0 0 0	0	4 11 44 LOSS	0 0	0	11 10 110 LOSS 0 0	0	0	6 11 66 LOSS GAI 0 0	N			0	23 9 202 LOSS 204 0	S GAIN 159 0	4 0	134 9 1049 LOSS 6 82 0	63 0
CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH	FACTO LOSS 20.4 20.4 20.4	GAIN 15.9 40.7 24.5	32 25	36 10 360 LOSS 0 653 510	0 1303 613	0 50	31 10 310 LOSS 0 0 1020	0 0 1227	0 0 42	400 400 LOSS 0 0 0 857 1	0 0 1031				L 0 0	0 9 0 .OSS GAIN 0 0 0 0	0 0	4 11 44 LOSS	0 0 0	0 0 6	11 10 110 LOSS 0 0 122	0 0 147	0 0	6 11 66 LOSS GAI 0 0 0 0	N			10 0 0	23 9 202 LOSS 204 0	S GAIN 159 0 0	4 0	134 9 1049 LOSS (82 0	63 0 0
CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST	FACTO LOSS 20.4 20.4 20.4 20.4	GAIN 15.9 40.7 24.5 40.7	32 25 0	36 10 360 LOSS 0 653 510	0 1303 613 0	0 50 0	31 10 310 LOSS 0 0 1020	0 0 1227 0	0 0 42 71	400 400 LOSS 0 0 0 857 1	0 0 1031 2891				L 0 0 0	0 9 0 .OSS GAIN 0 0 0 0	0 0 0	4 11 44 LOSS	0 0 0 0	0 0 6 0	11 10 110 LOSS 0 0 122	0 0 147 0	0 0 0	6 11 66 LOSS GAI 0 0 0 0 0 0 0 0	N			0 0	23 9 202 LOSS 204 0 0	S GAIN 159 0 0	4 0 0 0 0	134 9 1049 LOSS (82 0 0	63 0 0 0
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CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT LOSIS	FACTO LOSS 20.4 20.4 20.4 35.7 24.1 3.6 1.4 2.3 2.3	15.9 40.7 24.5 40.7 102.0 4.5 0.6 0.7 0.7	32 25 0 0 0 303 0 0 16	36 10 360 LOSS 0 653 510 0 0 930 0 0 37 0 0 0 2130	0 1303 613 0 0 0 175 0	0 50 0 0 0 260 0 0	31 10 310 LOSS 0 0 1020 0 0 798 0 0 0 0	0 0 1227 0 0 0 150 0	0 0 42 71 0 0 287 0 0	400 10 400 LOSS 0 0 0 857 11449 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1031 2891 0 0 165 0				L 0 0 0 0 0 0 0 0 0 72 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 0 44 0 0	4 11 44 LOSS 0 0 0 0 0 135 0 0 0 0	0 0 0 0 0 0 25 0	0 0 0 40 64 0 0	11 10 110 LOSS 0 0 122 0 0 962 196 0 0 0	0 0 147 0 0 181 37 0 0	0 0 0 0 20 46 0 0	6 11 66 LOSS GAI 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				0 0 0 0 0 0 128 0	23 9 202 LOSS 204 0 0 0 0 0 463 0 0	S GAIN 159 0 0 0 0 0 0 87 0	20 0 130 0 0	134 9 1049 LOSS 6 82 0 0 0 481 0 471 0 0 3934	63 0 0 0 90 0 88 0
CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER	FACTO LOSS 20.4 20.4 20.4 35.7 24.1 3.6 1.4 2.3 2.3	15.9 40.7 24.5 40.7 102.0 4.5 0.6 0.7 0.7	32 25 0 0 0 303 0 0 16	36 10 360 LOSS 0 653 510 0 0 0 930 0 0 0 37 0 0 0 2130	0 1303 613 0 0 0 175 0 18	0 50 0 0 0 260 0 0	31 10 310 LOSS 0 0 0 0 0 0 798 0 0 0 0 0 0 1818	0 0 1227 0 0 0 150 0 0	0 0 42 71 0 0 287 0 0 0	400 10 400 LOSS C 0 0 0 857 11449 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1031 2891 0 0 165 0 0				L 0 0 0 0 0 0 0 0 0 0 72 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 0 44 0 0	4 11 44 LOSS 0 0 0 0 0 135 0 0 0 0 135	0 0 0 0 0 25 0 0	0 0 6 0 40 64 0	11 10 110 LOSS 0 0 122 0 0 962 196 0 0 0 0 0 1222	0 0 147 0 0 181 37 0 0 0	0 0 0 0 20 46 0 0	6 11 66 LOSS GAI 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				0 0 0 0 0 0 128 0	23 9 202 LOSS 204 0 0 0 0 0 463 0 0	S GAIN 159 0 0 0 0 0 0 87 0	20 0 130 0	134 9 1049 LOSS 6 82 0 0 0 481 0 471 0 0 3934 4968	63 0 0 0 90 0 88 0 0
CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED CLG EXPOSED CLG FEATURE EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SUBTOTAL HT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS	FACTO LOSS 20.4 20.4 20.4 35.7 24.1 3.6 1.4 2.3 2.3	15.9 40.7 24.5 40.7 102.0 4.5 0.6 0.7 0.7	32 25 0 0 0 303 0 0 16	36 10 360 LOSS 0 653 510 0 0 930 0 0 37 0 0 0 2130	0 1303 613 0 0 175 0 18 0	0 50 0 0 0 260 0 0	31 10 310 LOSS 0 0 1020 0 0 798 0 0 0 0	0 0 1227 0 0 0 150 0 0	0 0 42 71 0 0 287 0 0 0	400 LOSS 0 0 0 857 1 1 1 4 9 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 11031 22891 0 0 1655 0 0 0				L 0 0 0 0 0 0 0 0 0 72 0	0 9 0	0 0 0 0 0 44 0 0	4 11 44 LOSS 0 0 0 0 0 135 0 0 0 0	0 0 0 0 0 0 25 0 0 0	0 0 0 40 64 0 0	11 10 110 LOSS 0 0 122 0 0 962 196 0 0 0	0 0 147 0 181 37 0 0 0	0 0 0 0 20 46 0 0	6 11 66 LOSS GAI 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				0 0 0 0 0 0 128 0	23 9 202 LOSS 204 0 0 0 0 0 463 0 0	S GAIN 159 0 0 0 0 0 0 87 0	20 0 130 0 0	134 9 1049 LOSS 6 82 0 0 0 481 0 471 0 0 3934	63 0 0 0 90 0 88 0 0
CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SYULT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED CLG EXPOSED CLG EXPOSED FLOOR BASEMENTICRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS SAIR CHANGE HEAT LOSS	FACTO LOSS 20.4 20.4 20.4 35.7 24.1 3.6 1.4 2.3 2.3	15.9 40.7 24.5 40.7 102.0 4.5 0.6 0.7 0.7	32 25 0 0 0 303 0 0 16	36 10 360 LOSS 0 653 510 0 0 930 0 0 37 0 0 2130	0 1303 613 0 0 0 175 0 18	0 50 0 0 0 260 0 0	31 10 310 LOSS 0 0 1020 0 0 0 0 0 0 0 0 0 0 1818 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1227 0 0 0 150 0 0	0 0 42 71 0 0 287 0 0 0	400 100 4000 100 100 100 100 100 100 100	0 0 1031 2891 0 0 165 0 0				L 0 0 0 0 0 0 0 0 0 72 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 0 44 0 0	4 11 44 LOSS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 25 0 0	0 0 0 40 64 0 0	11 10 110 LOSS 0 0 122 0 0 962 196 0 0 0 0 1281	0 0 147 0 0 181 37 0 0 0	0 0 0 0 20 46 0 0	6 11 66 LOSS GAI 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				0 0 0 0 0 0 128 0	23 9 202 LOSS 204 0 0 0 0 0 463 0 0	S GAIN 159 0 0 0 0 0 0 87 0	20 0 130 0 0	134 9 1049 LOSS 82 0 0 0 481 0 471 0 0 3934 4968 0.88 4964	63 0 0 0 90 0 88 0 0
CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED UGG 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	FACTO LOSS 20.4 20.4 20.4 35.7 24.1 3.6 1.4 2.3 2.3	15.9 40.7 24.5 40.7 102.0 4.5 0.6 0.7 0.7	32 25 0 0 0 303 0 0 16	36 10 360 LOSS 0 653 510 0 0 0 930 0 0 0 37 0 0 0 2130	0 1303 613 0 0 0 175 0 0 18 0	0 50 0 0 0 260 0 0	31 10 310 LOSS 0 0 0 0 0 0 798 0 0 0 0 0 0 1818	0 0 1227 0 0 0 150 0 0	0 0 42 71 0 0 287 0 0 0	400 LOSS 0 0 0 857 1 1 1 4 9 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1031 2891 0 0 165 0 0 0 0				L 0 0 0 0 0 0 0 0 0 72 0	0 9 0	0 0 0 0 0 44 0 0	4 11 44 LOSS 0 0 0 0 0 135 0 0 0 0 135	0 0 0 0 0 0 0 25 0 0 0	0 0 0 40 64 0 0	11 10 110 LOSS 0 0 122 0 0 962 196 0 0 0 0 0 1222	0 0 147 0 0 181 37 0 0 0	0 0 0 0 20 46 0 0	6 11 66 LOSS GAI 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				0 0 0 0 0 0 128 0	23 9 202 LOSS 204 0 0 0 0 0 463 0 0	S GAIN 159 0 0 0 0 0 0 87 0	20 0 130 0 0	134 9 1049 LOSS 6 82 0 0 0 481 0 471 0 0 3934 4968	63 0 0 0 0 90 0 88 0 0
CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT CANN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT GAIN DUCT GAIN	FACTC LOSS 20.4 20.4 20.4 20.4 35.7 24.1 3.1 3.6 1.4 2.3 2.3	15.9 40.7 24.5 40.7 102.0 4.5 0.6 0.7 0.7	32 25 0 0 0 303 0 0 16	36 10 360 LOSS 0 653 510 0 0 930 0 0 37 0 0 2130	0 1303 613 0 0 0 175 0 0 18 0	0 50 0 0 0 260 0 0 0	31 10 310 LOSS 0 0 1020 0 0 0 0 0 0 0 0 0 0 1818 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1227 0 0 0 150 0 0 0	0 0 42 71 0 0 287 0 0 0	400 100 4000 100 100 100 100 100 100 100	0 0 1031 2891 0 0 165 0 0 0 4087			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 0 0 44 0 0 0	4 11 44 LOSS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 25 0 0 0 0 0 25 25 25 0	0 0 0 40 64 0 0	11 10 110 LOSS 0 0 122 0 0 962 196 0 0 0 0 1281	0 0 147 0 0 181 37 0 0 0 0	0 0 0 0 0 20 46 0 0 0	6 11 66 LOSS GAI 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				0 0 0 0 0 0 128 0	23 9 202 LOSS 204 0 0 0 0 0 463 0 0	S GAIN 159 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 0 130 0 0 0	134 9 1049 LOSS 82 0 0 0 481 0 471 0 0 3934 4968 0.88 4964	63 0 0 0 90 0 88 0 0
CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BSMT WALL ABOVE OR 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 DUCT GAIN HEAT GAIN PEOPLE	FACTC LOSS 20.4 20.4 20.4 20.4 35.7 24.1 3.1 3.6 1.4 2.3 2.3	15.9 40.7 24.5 40.7 102.0 4.5 0.6 0.7 0.7	32 25 0 0 0 303 0 0 16	36 10 360 LOSS 0 653 510 0 0 930 0 0 37 0 0 2130	0 1303 613 0 0 175 0 18 0 2109	0 50 0 0 0 260 0 0	31 10 310 LOSS 0 0 1020 0 0 0 0 0 0 0 0 0 0 1818 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1227 0 0 0 150 0 0 0	0 0 42 71 0 0 287 0 0 0	400 100 4000 LOSS 0 0 0 887 1 1449 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1031 2891 0 0 165 0 0 0 4087			0	L 0 0 0 0 0 0 0 0 0 72 0	0 9 0	0 0 0 0 0 44 0 0	4 11 44 LOSS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 25 0 0 0 0 25 25 2 0	0 0 0 40 64 0 0	11 10 110 LOSS 0 0 122 0 0 962 196 0 0 0 0 1281	0 0 147 0 0 181 37 0 0 0	0 0 0 0 20 46 0 0	6 11 66 LOSS GAI 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				0 0 0 0 0 0 128 0	23 9 202 LOSS 204 0 0 0 0 0 463 0 0	S GAIN 159 0 0 0 0 0 0 87 0	20 0 130 0 0	134 9 1049 LOSS 82 0 0 0 481 0 0 471 0 0 3934 4968 0.88 4964	63 0 0 0 90 0 88 0 0 0
CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SYULT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED CLG EXPOSED CLG EXPOSED CLG EXPOSED FLOOR BASEMENTICAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS AIR CHANGE HEAT CAIN DUCT LOSS DUCT GAIN HEAT GAIN PEOPLE HEAT GAIN APPLIANCES/LIGHTS	FACTC LOSS 20.4 20.4 20.4 20.4 35.7 24.1 3.1 3.6 1.4 2.3 2.3	15.9 40.7 24.5 40.7 102.0 4.5 0.6 0.7 0.7	32 25 0 0 0 303 0 0 16 0	36 10 360 LOSS 0 653 510 0 0 0 0 37 0 0 2130 0.32 692	0 1303 613 0 0 0 175 0 0 18 0	0 50 0 0 0 260 0 0 0	31 10 310 LOSS 0 0 1020 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1227 0 0 0 150 0 0 0	0 0 42 71 0 0 287 0 0 0	400 100 4000 LOSS 0 0 0 887 1 1449 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1031 2891 0 0 165 0 0 0 4087			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 0 0 44 0 0 0	4 11 44 LOSS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 25 0 0 0 0 0 25 25 25 0	0 0 6 0 0 40 64 0 0 0	11 10 110 LOSS 0 0 122 0 0 962 1966 0 0 0 0 1281 0.32 416	0 0 147 0 0 181 37 0 0 0 0	0 0 0 0 0 20 46 0 0 0	6 111 666 LOSS GAI 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				0 0 0 0 0 0 128 0 0	23 9 2022 LOSS 204 0 0 0 0 0 463 0 0 0 667	S GAIN 159 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 0 130 0 0 0	134 9 1049 LOSS 82 0 0 0 481 0 0 471 0 0 3934 4968 0.88 4964	63 0 0 0 90 0 88 0 0 0
CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED CLG NO ATTIC 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 DUCT GAIN HEAT GAIN PEOPLE	FACTC LOSS 20.4 20.4 20.4 20.4 35.7 24.1 3.1 3.6 1.4 2.3 2.3	15.9 40.7 24.5 40.7 102.0 4.5 0.6 0.7 0.7	32 25 0 0 0 303 0 0 16 0	36 10 360 LOSS 0 653 510 0 0 0 0 37 0 0 2130 0.32 692	0 1303 613 0 0 175 0 18 0 2109	0 50 0 0 0 260 0 0 0	31 10 310 LOSS 0 0 1020 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1227 0 0 0 150 0 0 0	0 0 42 71 0 0 287 0 0 0	400 100 4000 LOSS 0 0 8857 1 1449 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1031 2891 0 0 165 0 0 0 4087			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 44 0 0 0	4 11 44 LOSS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 25 0 0 0 0 25 25 2 0	0 0 6 0 0 40 64 0 0 0	11 10 110 LOSS 0 0 122 0 0 962 196 0 0 0 0 1281	0 0 147 0 0 181 37 0 0 0 0	0 0 0 0 0 20 46 0 0 0	6 11 66 LOSS GAI 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				0 0 0 0 0 0 128 0 0	23 9 202 LOSS 204 0 0 0 0 0 463 0 0	S GAIN 159 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 0 130 0 0 0	134 9 1049 LOSS 6 82 0 0 0 481 0 0 471 0 0 3934 4968 0 0 9931	63 0 0 0 90 0 88 0 0 0

TOTAL HEAT GAIN BTU/H:

30955 TONS: 2.58

LOSS DUE TO VENTILATION LOAD BTU/H: 2286

STRUCTURAL HEAT LOSS: 33974

TOTAL COMBINED HEAT LOSS BTU/H: 36261

Maked Offiche.



SITE NAME: LECCO RIDGE BUILDER: GREENPARK HOMES TYPE: IVY 11 DATE: Jan-17 GFA: 2256 LO# 71719 furnace pressure 0.6 HEATING CFM 890 COOLING CFM 890 0.05 #AMANA AFUE = 96 % furnace filter TOTAL HEAT LOSS 33,974 TOTAL HEAT GAIN 30,525 a/c coil pressure 0.2 AMEC960402BNA INPUT (BTU/H) = 40,000 AIR FLOW RATE CFM 26.2 AIR FLOW RATE CFM 29.16 available pressure **FAN SPEED** OUTPUT (BTU/H) = 38,400 for s/a & r/a 0.35 LOW **RUN COUNT** 4th 3rd 2nd 1st **MEDLOW** DESIGN CFM = 890 Bas 0 0 4 plenum pressure s/a 0.18 r/a pressure 0.17 MEDIUM CFM @ .6 " E.S.P. S/A MEDIUM HIGH R/A 0 0 4 max s/a dif press. loss 0.03 r/a grille press. Loss 0.02 All S/A diffusers 4"x10" unless noted otherwise on layout. min adjusted pressure s/a 0.15 adjusted pressure r/a 0.15 HIGH 890 TEMPERATURE RISE 40 °F All S/A runs 5"Ø unless noted otherwise on layout. RUN# 6 8 10 12 13 14 15 16 17 18 19 20 21 22 23 24 ROOM NAME MBR ENS WIC BED-4 BATH BED-2 BED-3 MBR OFF DIN KT/FM KT/FM KT/FM LAUN W/R FOY MUD BAS BAS BAS BAS RM LOSS MBH. 1.37 0.86 0.11 2.25 0.75 2.01 2.39 1.37 2.82 2.41 1.41 1.41 1.41 0.13 0.18 1.70 0.82 2.65 2.65 2.65 2.65 CFM PER RUN HEAT 59 36 23 3 20 53 63 36 74 63 37 37 37 3 5 44 22 69 69 69 69 RM GAIN MBH. 2.06 1.07 0.06 2.83 0.54 3.77 3.19 2.06 3.52 2.51 2.08 2.08 2.08 0.68 0.03 0.50 0.16 0.32 0.32 0.32 0.32 CFM PER RUN COOLING 60 31 2 83 16 110 93 60 103 73 61 61 61 20 15 5 9 9 9 9 ADJUSTED PRESSURE 0.17 0.17 0.17 0.16 0.17 0.15 0.16 0.17 0.16 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 ACTUAL DUCT LGH 57 20 20 64 50 52 53 10 40 13 32 48 26 26 45 27 16 16 EQUIVALENT LENGTH 130 150 190 150 180 170 170 140 150 150 170 130 130 130 160 180 140 150 130 130 140 TOTAL EFFECTIVE LENGTH 150 156 234 146 205 163 237 170 234 220 182 156 203 140 190 163 202 178 184 166 207 ADJUSTED PRESSURE 0.11 0.07 0.1 0.11 0.07 0.07 0.09 0.11 0.08 0.12 0.09 0.11 0.09 0.1 0.11 0.07 0.09 0.1 0.12 0.08 0.08 ROUND DUCT SIZE 5 4 5 5 5 5 4 4 5 4 6 6 5 6 5 5 4 5 5 5 HEATING VELOCITY (ft/min) 34 433 229 321 463 272 272 323 252 507 507 507 507 264 264 270 264 377 272 34 57 COOLING VELOCITY (ft/min 441 356 23 609 184 561 474 441 525 536 448 448 448 229 11 110 57 66 66 66 66 **OUTLET GRILL SIZE** 3X10 3X10 3X10 3X10 3X10 4X10 4X10 3X10 4X10 3X10 TRUNK В В D D В В В

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

RECEIVED TOWN OF MILTON MAR 29, 2017 JUNIPER 11F **BUILDING DIVISION**

SUPPLY AIR TRUNK SIZE													*				RETURN A	IR TRUN	K SIZE					
	TRUNK	STATIC	ROUND	RECT			VELOCITY			TRUNK	STATIC	ROUND	RECT			VELOCITY		TRUNK	STATIC	ROUND	RECT			VELOCITY
	CFM	PRESS.	DUCT	DUCT			(ft/min)			CFM	PRESS.	DUCT	DUCT			(ft/min)		CFM	PRESS.	DUCT	DUCT			(ft/min)
TRUNK A	270	0.07	8.9	10	x	8	486		TRUNK G	0	0.00	0	0	Х	8	0	TRUNK O	0	0.06	0	0	Х	8	0
TRUNK B	215	0.07	8.2	8	Х	8	484		TRUNK H	0	0.00	0	0	Х	8	0	TRUNK P	0	0.06	0	0	х	8	0
TRUNK C	696	0.07	12.7	18	Х	8	696		TRUNK I	0	0.00	0	0	х	. 8	0	TRUNK Q	0	0.06	0	0	х	8	0
TRUNK D	195	0.11	7	6	Х	8	585		TRUNK J	0	0.00	0	0	Х	8	0	TRUNK R	0	0.06	0	0	Х	8	0
TRUNK E	0	0.00	0	0	Х	8	0		TRUNK K	0	0.00	0	0	х	8	0	TRUNK S	0	0.06	0	0	х	8	0
TRUNK F	0	0.00	0	0	x	8	0		TRUNK L	0	0.00	0	0	Х	88		TRUNK T	0	0.06	0	0	Х	8	0
																	TRUNK U	0	0.06	Ü	0	Х	8	0
DESTINUAD #																BR	TRUNK V	Ü	0.06	Ü	Ü	X	8	, i
RETURN AIR #	1	2	3	4	5	0	•	^	_	^	^	^	^	^	^	BK	TRUNK W	000	0.06	44.4	0	X	8	0
AIR VOLUME	135	135	85	85	175	155	0	0	0	0	0	0	0	0	0	120	TRUNK X	890 240	0.06 0.06	14.4	24	X	0	668 432
PLENUM PRESSURE	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0 0.15	0 0.15	0.15	0.15	0.15	TRUNK Z	0	0.06	8.8 0	10 0	X	0	432
ACTUAL DUCT LGH.	18	12	50	62	18	0.15 45	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15		DROP	890	0.06	14.4	24	X	8 10	534
EQUIVALENT LENGTH	175	215	215	190	135	45 185	,		,	,	,	,	,	,	,	14 135	DROP	090	0.00	14.4	24	X	10	554
TOTAL EFFECTIVE LH	193	227	265	252	153	230	1	1	1	1	1	1	1	1	1	149								1
ADJUSTED PRESSURE	0.08	0.07	0.06	0.06	0.10	0.06	14.80	14.80	14.80	14.80	14.80	14.80	14.80	14.80	14.80	0.10								
ROUND DUCT SIZE	6.6	6.8	6	6	6.9	7.5	n00	1 7 .00	17.00 N	0	n00	1-7.00 N	n00	n00	n00	6								
INLET GRILL SIZE	8	8	8	8	8	8	ñ	n	ñ	ň	ň	ň	n	ň	ñ	8								
THE TOTALE SIZE	X	X	×	X	X	X	X	X	X	X	x	X	X	X	X	X	1							
INLET GRILL SIZE	14	14	14	14	14	14	Ô	ô	Ô	ô	ô	Ô	<u> </u>	Ô	ô	14								



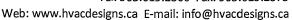
TYPE: SITE NAME: IVY 11

LECCO RIDGE

LO# 71719

RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

COMBUSTION APPLIANCES	9.32.3.1(1)	SUPPLEMENTAL VENTILAT	TON CAPACITY		9.32.3.5.
a) Direct vent (sealed combustion) only		Total Ventilation Capacity		169.6	_ cfm
b) Positive venting induced draft (except fireplaces)		Less Principal Ventil. Capacit	·	86	_ cfm
c) Natural draft, B-vent or induced draft gas fireplace		Required Supplemental Capa	city .	83.6	_ cfm
d) Solid Fuel (including fireplaces)					
e) No Combustion Appliances		PRINCIPAL EXHAUST FAN Model: V		Location:	BSMT
HEATING SYSTEM			ANEE 40H+		
		86.0 cfm	3.0 sones	-	HVI Approved
Forced Air Non Forced Air		PRINCIPAL EXHAUST HEAT	ΔT *F	FACTOR	% LOSS
Electric Space Heat		86.0 CFM X	72 F X	1.08	X 0.34
		SUPPLEMENTAL FANS		NUTONE	100
HOUSE TYPE	9.32.1(2)	Location ENS	Model QTXEN050C	cfm 50	HVI Sones ✓ 0.3
✓ I Type a) or b) appliance only, no solid fuel		BATH	QTXEN050C	50	✓ 0.3
II Type I except with solid fuel (including fireplaces	,	W/R	QTXEN050C	50	✓ 0.3
Type Texcept Will solid facilities in opiaces	' l	HEAT RECOVERY VENTILA	TOR		9.32.3.11.
III Any Type c) appliance		Model:	VANEE 40H+		efer law
IV Type I, or II with electric space heat		86	cfm high	37	cfm low
Other: Type I, II or IV no forced air			Sensible Efficiency 32 deg F (0 deg C)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	✓ HVI Approved
		LOCATION OF INSTALLATI	ON		
SYSTEM DESIGN OPTIONS	O.N.H.W.P.	ECOATION OF INSTALLATI	014	RE	CEIVED
1 Exhaust only/Forced Air System		Lot:		-	N OF MILTON
		Township		P	NR 29, 2017 NIPER 11F
2 HRV with Ducting/Forced Air System		Address			ING DIVISION
HRV Simplified/connected to forced air system		Roll#			
4 HRV with Ducting/non forced air system		BUILDER: G	PI ANNIN		OF MILTON EVELOPMENT
Part 6 Design		Name:	WILLION	1/	/Y 11F MODEL
TOTAL VENTILATION CAPACITY	9.32.3.3(1)	Address:	SCOTT SHERR		APR 7, 2017
TOTAL VENTILATION CAPACITY	3.32.3.3(1)	Address.	PLANS EXAMINER Neither the issuance of	of a permit no	DATE r carrying out of
Basement + Master Bedroom 2 @ 21.2 cfm 42.4	cfm	City:	inspections by the Tor full responsibility for c	wn of Milton re ompliance wit	elives the owner from h the provisions of
Other Bedrooms <u>3</u> @ 10.6 cfm <u>31.8</u>	cfm	Telephone #:	the Ontario Building C Code, both as amend statutes and regulatio	ed, as well as	other applicable
Kitchen & Bathrooms 4 @ 10.6 cfm 42.4	cfm	INSTALLING CONTRACTOR	By-laws of the Region	of Halton and	Town of Milton
Other Rooms5@ 10.6 cfm53.0	cfm	Name:			
Table 9.32.3.A. TOTAL <u>169.6</u>	cfm	Address:		***************************************	
		City:			
PRINCIPAL VENTILATION CAPACITY REQUIRED	9.32.3.4.(1)	Telephone #:		Fax #:	
1 Bedroom 31.8 cfm					
2 Bedroom 47.7 cfm		DESIGNER CERTIFICATION I hereby certify that this ventil	ation system has been d	esigned	
3 Bedroom 63.6 cfm		in accordance with the Ontari Name:	o Building Code. IVAC Designs Ltd.		
4 Bedroom 79.5 cfm		Signature:	Maken	l Knishe	: .*∳
5 Bedroom 95.4 cfm		HRAI#	•	001820	
More than 5 - Part 6 TOTAL 79.5 cfm		Date:		January-17	
I REVIEW AND TAKE RESPONDITIVE FOR THE DESIGN WORK AND AM OUR	ALIEIED IN THE A	DODODDIATE CATECODY AS AN "OTHER	DESIGNED! LINDED DIVISION	CARECTHE	DI III DING CODE





HEAT LOSS AND GAIN SUMMARY SHEET

MODEL: **IVY 11 BUILDER: GREENPARK HOMES** SFQT: 2256 LO# 71719 **SITE: LECCO RIDGE DESIGN ASSUMPTIONS HEATING** °F COOLING °F OUTDOOR DESIGN TEMP. 0 OUTDOOR DESIGN TEMP. 86 INDOOR DESIGN TEMP. 72 INDOOR DESIGN TEMP. (MAX 75°F) 72.4 **BUILDING DATA** ATTACHMENT: **ATTACHED** # OF STORIES (+BASEMENT): 3 FRONT FACES: **EAST** Υ ASSUMED (Y/N): AIR CHANGES PER HOUR: 3 ASSUMED (Y/N): AIR TIGHTNESS CATEGORY: **TIGHT** ASSUMED (Y/N): WIND EXPOSURE: UNSHELTERED ASSUMED (Y/N): HOUSE VOLUME (ft3): 30715.6 ASSUMED (Y/N): Υ INTERNAL SHADING: **BLINDS/CURTAINS ASSUMED OCCUPANTS:** 5 INTERIOR LIGHTING LOAD (Btu/h/ft²): 1.27 DC BRUSHLESS MOTOR (Y/N): Υ FOUNDATION CONFIGURATION BCIN_1 **DEPTH BELOW GRADE:** 6.8 ft LENGTH: 57.0 ft WIDTH: 25.0 ft **EXPOSED PERIMETER:** 134.0 ft

2012 OBC - COMPLIANCE PACKAGE			
Component		Compliance ENERG	Package SYSTAR
		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)-Value	e	10	
Heated Slab or Slab ≤ 600 mm below grade Minimum RSI (R)-Value	RECEIVED	10	
Windows and Sliding Glass Doors Maximum U-Value	TOWN OF MILTON	ZONE 2	
Skylights Maximum U-Value	MAR 29, 2017	ZONE 2	
Space Heating Equipment Minimum AFUE	JUNIPER 11F	0.95	
HRV Minimum Efficiency	BUILDING DIVISION	65%	
Domestic Hot Water Heater Minimum EF		90% TE	

INDIVIDUAL BCIN: 19669 MICHAEL O'ROURKE





Residential Foundation Thermal Load Calculator

Supplemental tool for CAN/CSA-F280

W	eather Sta	tion Description									
Province:	Ontario										
Region:	Milton										
	Site D	escription									
Soil Conductivity:	Normal c	onductivity: dry dand, loam, clay									
Water Table: Normal (7-10 m, 23-33 ft)											
	Foundation Dimensions										
Floor Length (m):	17.4										
Floor Width (m):	7.6										
Exposed Perimeter (m):	40.8										
Wall Height (m):	2.7										
Depth Below Grade (m):	2.07	Insulation Configuration									
Window Area (m²):	1.3										
Door Area (m²):	1.9										
	Radia	ant Slab									
Heated Fraction of the Slab:	0										
Fluid Temperature (°C):	33										
	Design	n Months									
Heating Month	1										
	Founda	tion Loads									
Heating Load (Watts):		1153									

TYPE: IVY 11 **LO#** 71719

RECEIVED TOWN OF MILTON MAR 29, 2017 JUNIPER 11F BUILDING DIVISION



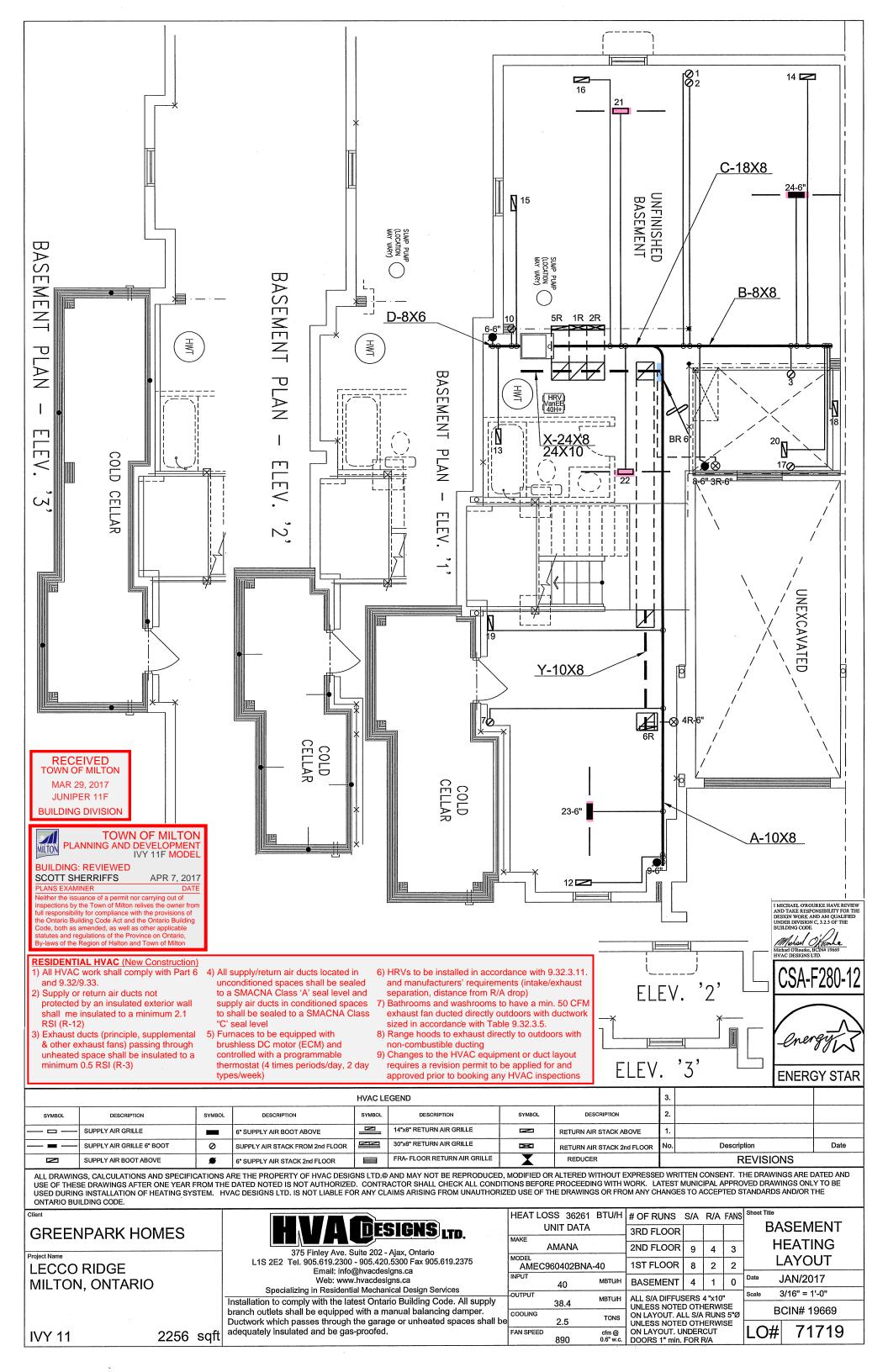
Air Infiltration Residential Load Calculator

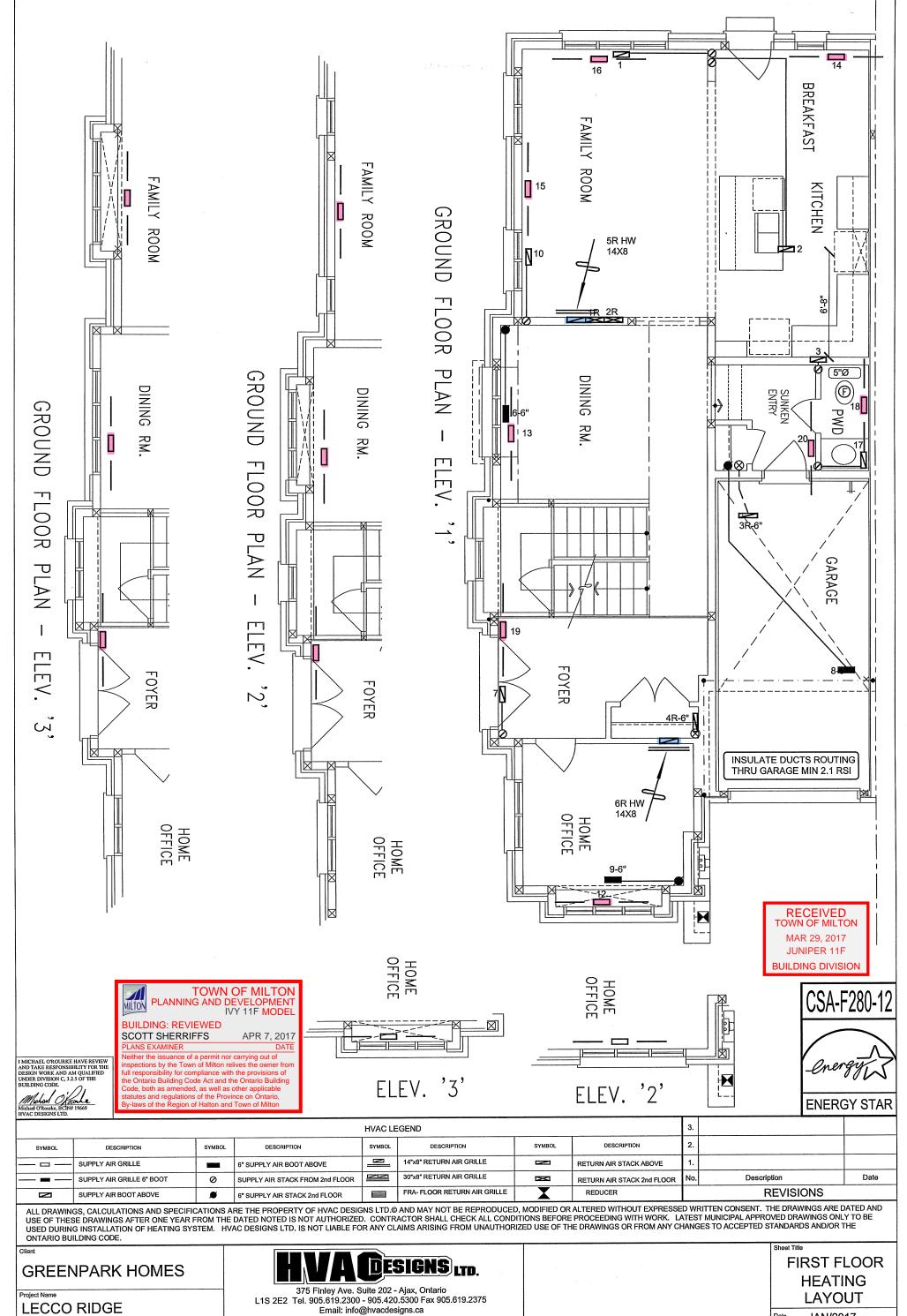
Supplemental tool for CAN/CSA-F280

Weather St	ation De	script	ion		
Province:	Onta	rio			
Region:	Milt	on			
Weather Station Location:	Ope	n flat te	errain,	grass	
Anemometer height (m):	10				
Loca	l Shieldii	ng			
Building Site:	Subu	ırban, f	orest		
Walls:	Very	heavy			
Flue:	Heav	/y			
Highest Ceiling Height (m):	6.34				
Building	Configu	ation			
Type:	Sem				
Number of Stories:	Two				
Foundation:	Full				
House Volume (m³):	869.	8			
Air Leaka	ge/Vent	latio	า		
Air Tightness Type:	Ener	gy Star	Attach	ned (3.0	OACH)
Custom BDT Data:	ELA	@ 10 Pa	a.		974.3 cm ²
	3.00)			ACH @ 50 Pa
Mechanical Ventilation (L/s):	Т	otal Sup	ply		Total Exhaust
		40.6			40.6
FI	ue Size				
Flue #:	#1	#2	#3	#4	
Diameter (mm):	0	0	0	0	
Natural In	filtration	Rate	es		ŗ
Heating Air Leakage Rate (ACH/	H):	().25	0	:
Cooling Air Leakage Rate (ACH/	H):	C	0.07		

TYPE: IVY 11 **LO#** 71719

RECEIVED TOWN OF MILTON MAR 29, 2017 JUNIPER 11F BUILDING DIVISION





MILTON, ONTARIO

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.

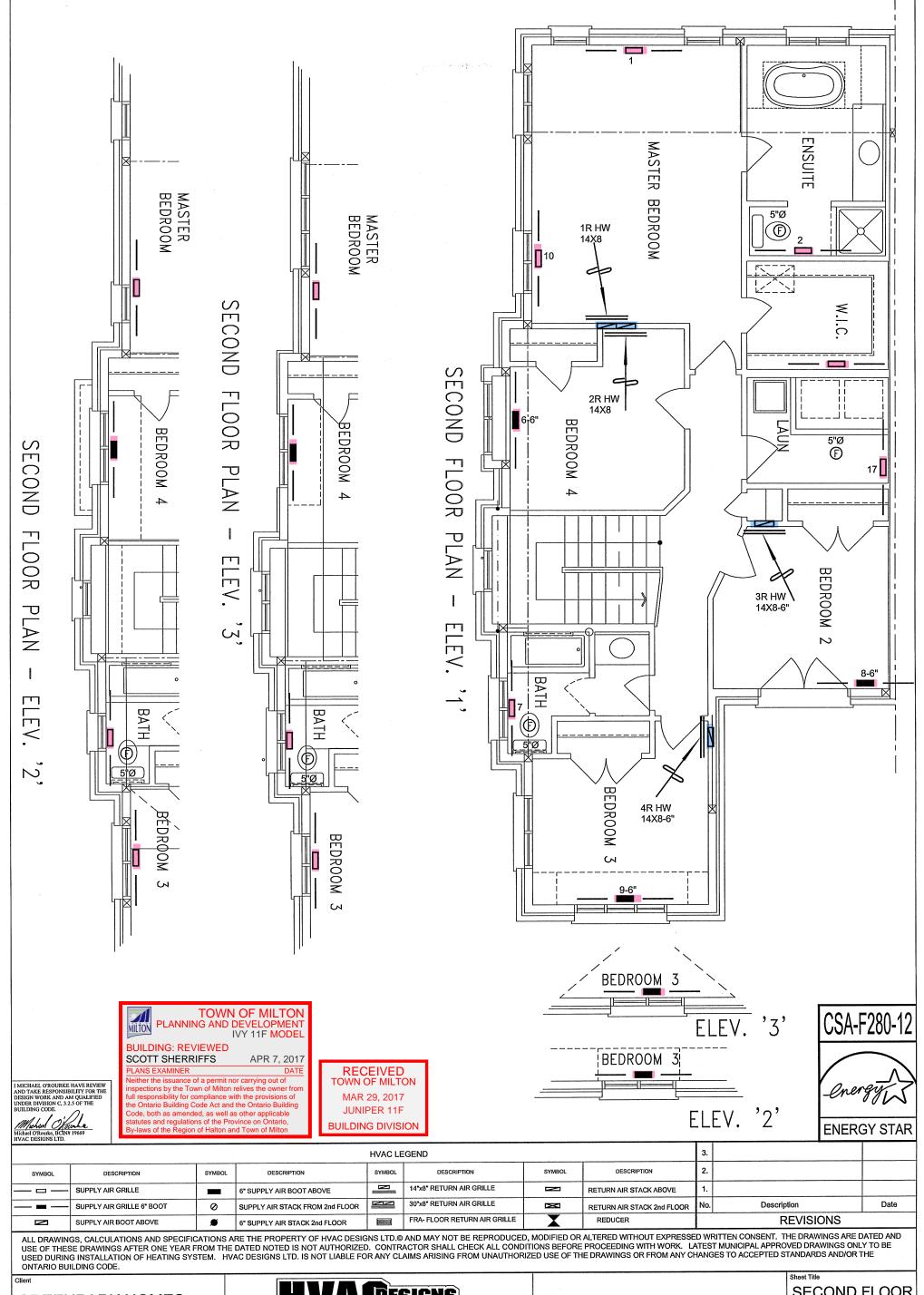
Ductwork which passes through the garage or unheated spaces shall be adequately insulated and be gas-proofed.

JAN/2017 3/16" = 1'-0" BCIN# 19669

LO# 71719

IVY 11

2256 sqft



GREENPARK HOMES

Project Name

LECCO RIDGE MILTON, ONTARIO

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.

SECOND FLOOR
HEATING
LAYOUT

JAN/2017

Scale 3/16" = 1'-0"

BCIN# 19669 -O# 71719

IVY 11

2256 sqft