## **Schedule 1: Designer Information**

Use one form for each individual who reviews and takes responsibility for design activities with respect to the project.

A. Project Information					
Building number, street name			4	Unit no.	Lot/con.
Municipality	Postal code	Plan number/ other des	scription		•
BRAMPTON				4	
B. Individual who reviews and takes	responsibility fo	r design activities	$\overline{}$	7	
Name MICHAEL O'ROURKE		Firm HVAC DESIGNS LTD	2.2		
Street address		WAS BESIGNED TO	Unit no.		Lot/con.
375 FINLEY AVE			202		N/A
Municipality <b>AJAX</b>	Postal code L1S 2E2	Province ONTARIO	E-mail info@hvacde	esigns.ca	
Telephone number (905) 619-2300	Fax number (905) 619-2375		Cell number		
C. Design activities undertaken by in	dividual identifie	ed in Section B. [Buil	Iding Code Ta	able 3.5.2.1 O	F Division C]
☐ House	⊠ HVAC	House	$\overline{}$	Building Str	uctural
Small Buildings		Services		Plumbing =	
☐ Large Buildings	Detection	on, Lighting and Po	wer 🔲	Plumbing –	All Buildings
Complex Buildings	☐ Fire Pr			On-site Sew	age Systems
Description of designer's work HEAT LOSS / GAIN CALCULATIONS DUCT SIZING RESIDENTIAL MECHANICAL VENTILATIO RESIDENTIAL SYSTEM DESIGN per CSA-	N DESIGN SUMM F280-12	Model:	2504-END SUMMER RID	GE ESTATES	
D. Declaration of Designer	~ 3	(3)			
I MICHAEL O'ROURKE  □ I review and take responsibility for	int name)	on behalf of a firm regist.	-	,	e as appropriate):
Division C, of the Building Code. classes/categories.	I am qualified and	the firm is registered, in	the	appropr	iate
Individual BCIN: Firm BCIN:	<del>7/2</del>				
☑ I review and take responsibility for designer" under subsection 3.2	2.5.of Di visio	m qualified in the approp in C, of the Building Cod		as an "other	
	<u>19669</u> om registration and	d qualification:	O.B.C SEN	NTENCE 3.2.	4.1 (4)
☐ The design work is exempt Basis for exemption from registra		on and qualification requon:	irements of the	Building Code.	
I certify that:					
The information contained     I have submitted this applica		ule is true to the best of r edge and consent of the			2
June 11, 2024			Micha	nd Okoun	Le.
Date				Signature	of Designer

#### NOTE

<sup>1.</sup> For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) d).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.

<sup>2.</sup> Schedule 1 is not required to be completed by a holder of a license, temporary license, or a certificate of authorization, 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.



SITE NAME: BUILDER:							TVDE:	2504-EN	,			GFA:	2027			DATE: Jun- LO# 1052							HANGE RATE 0.29		HEAT LOSS HEAT GAIN					A-F280-12 RMANCE
ROOM USE	KOTAL FI	VE HOW	MBR		1	ENS	TIFE.	2304-LIV		T	BED-2	GI A.	2027	BED-3		LO# 1002			BATH	CIVIIVILI	NAI OI	VAL AIN O	TIANGE NATE 0.03	1	IILAI GAIN	Δ1 1.			FERIC	KWANCE
EXP. WALL			43			25					23			30					0											
CLG. HT.			9			9					9			9					9											
CEG. III.	FACTORS		9			9					9			9					9											
GRS.WALL AREA		LINI	387			225					207			270					0											
GLAZING	LU33 G/	MIN	LOSS	GAIN		LOSS	CAIN					GAIN		LOSS	CAIN				•	GAIN										
NORTH	20.8 1	2.8 0		0 0	0	0	0			0	0	0	_	0	0 0			0	0	0										
EAST	20.8 3			0	0	0	0			32	665	1053	0 35		1152			0	0	0										
SOUTH	20.8 1			0	0	0	0			0	0	0	0	0	0			0	0	0										
WEST	20.8 3			856	17	353	560			0	0	0	0	0	0			0	0	0										
SKYLT.	34.1 13			0	0	0	0			0	0	0	0	0	0			0	0	0										
DOORS	19.6 2			0	0	0	0			0	0	0	0	0	0			0	0	ő										
NET EXPOSED WALL	3.5 0			186	208	721	107			175	607	90	235	815	121			0	0	0										
NET EXPOSED BSMT WALL ABOVE GR		.5 0		0	0	0	0			0	0	0	0	0	0			0	0	0										
EXPOSED CLG		.6 39		218	132	165	74			155	194	86	110	138	61			115	144	64				1						
NO ATTIC EXPOSED CLG		.2 0		0	0	0	0			0	0	0	50	134	60			0	0	0				1						
EXPOSED FLOOR	2.7 1			0	0	0	0			120	299	44	0	0	0			100	249	37				1						
BASEMENT/CRAWL HEAT LOSS	2.5	-   °	0	U	ľ	0	U	1		120	0		ľ	0	U			100	0	3,				1						
SLAB ON GRADE HEAT LOSS			0		1	0				1	0		l	0					0					1						
SUBTOTAL HT LOSS			2282			1240		1		1	1765			1814					393					1						
SUB TOTAL HT GAIN				1259	1	0	740			1	00	1274	l		1394				230	101				1						
LEVEL FACTOR / MULTIPLIER		0.2	0 0.26	1200	0.20	0.26	140			0.20	0.26	12/4	0.20	0.26	1004			0.20	0.26											
AIR CHANGE HEAT LOSS		1.2	586			319		1			454			466					101					1						
AIR CHANGE HEAT GAIN			000	83		0.0	49					84			92					7										
DUCT LOSS			0	•		0					222	٠.		0					49	•										
DUCT GAIN			-	0		-	0					244		-	0					11										
HEAT GAIN PEOPLE	240	2		480	0		0			1		240	1		240			0		0										
HEAT GAIN APPLIANCES/LIGHTS				840	-		0			-		840	-		840			-		0										
TOTAL HT LOSS BTU/H			2868			1558					2440			2280					544	-										
TOTAL HT GAIN x 1.3 BTU/H				3462			1026					3487			3336					154										
TOTAL HT GAIN x 1.3 BTU/H				3462			1026					3487			3336					154										
ROOM USE				3462		LV/DN	1026		B/F			3487		LAUN	3336	PW			FOY	154		MUD					WOD		ВА	
ROOM USE EXP. WALL				3462		50	1026		60			3487		LAUN 11	3336	10			10	154	1	14					33		14	8
ROOM USE				3462			1026					3487		LAUN	3336					154	1									8
ROOM USE EXP. WALL CLG. HT.	FACTORS			3462		50 10	1026		60 10			3487		LAUN 11 9	3336	10 10	1		10 10	154		14 10					33 9		14 9	8
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA		IN		3462		50 10 500			60 10 600			3487		LAUN 11 9		10 10	)		10 10 100			14 10 140					33 9 297		14 9 98	7
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING	LOSS GA			3462		50 10 500 LOSS	GAIN	, L	60 10 600 DSS GAIN	4		3487		LAUN 11 9 99 LOSS	GAIN	10 10 10 LOS	) SS GAIN		10 10 100 LOSS	GAIN	L	14 10 140 .OSS GAII	N				33 9 297 LOSS G		14 9 98 LOS	8 7 SS GAIN
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH	20.8 12	2.8		3462	0	50 10 500 LOSS 0	GAIN 0	0 L	60 10 600 DSS GAIN 0 0	4		3487	0	11 9 99 LOSS 0	GAIN 0	10 10 10 LOS 0 0	O SS GAIN O	0	10 10 100 LOSS 0	GAIN 0	L O	14 10 140 .OSS GAII 0 0	N			0	33 9 297 LOSS G 0	0	98 LOS 0 0	7 SS GAIN 0
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST	20.8 12 20.8 33	2.8		3462	0 34	50 10 500 LOSS 0 706	GAIN 0 1119	0 0	60 10 600 DSS GAIN 0 0	1		3487	0	11 9 99 LOSS 0	GAIN 0 0	10 10 10 LOS 0 0	O SS GAIN O O	0	10 10 100 LOSS 0	GAIN 0 0	L 0 0	14 10 140 OSS GAII 0 0 0 0	N			0	33 9 297 LOSS G 0	0	14 9 98 LOS 0 0 0 0	7 SS GAIN 0 0
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH	20.8 1: 20.8 3: 20.8 1:	2.8 2.9 0.8		3462	0 34 21	50 10 500 LOSS 0 706 436	GAIN 0 1119 416	0 0 0	60 10 600 OSS GAIN 0 0 0 0			3487	0 28	11 9 99 LOSS 0 0 582	GAIN 0 0 555	10 10 10 LOS 0 0 0 0 7 14	0 SS GAIN 0 0 5 139	0	10 10 100 LOSS 0 0	GAIN 0 0	0 0 0	14 10 140 .OSS GAII 0 0 0 0	N			0 0 0	33 9 297 LOSS G 0 0	0 0 0	98 LOS 0 0 0 0 6 12	7 SS GAIN 0 0 5 119
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST	20.8 1: 20.8 3: 20.8 1: 20.8 3:	2.8 2.9 0.8 2.9		3462	0 34 21 0	50 10 500 LOSS 0 706 436 0	GAIN 0 1119 416 0	0 0 0 0 73 1	60 10 500 OSS GAIN 0 0 0 0 0 0			3487	0 28 0	LAUN 11 9 99 LOSS 0 0 582	GAIN 0 0 555 0	10 10 10 10 0 0 0 0 7 14 0 0	0 SS GAIN 0 0 5 139 0	0 0	10 10 100 LOSS 0 0 0	GAIN 0 0 0	0 0 0	14 10 140 .OSS GAII 0 0 0 0 0 0	<b>1</b>			0 0 0 3	33 9 297 LOSS G 0 0 0	0 0 0 99	98 LO3 0 0 0 0 6 12 0 0	7 SS GAIN 0 0 5 119 0
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT.	20.8 1: 20.8 3: 20.8 1: 20.8 3: 34.1 13	2.8 2.9 3.8 2.9 2.1		3462	0 34 21 0	50 10 500 LOSS 0 706 436 0	GAIN 0 1119 416 0	0 0 0 0 73 1	60 110 600 OSS GAIN 0 0 0 0 0 0 517 2403 0 0			3487	0 28 0	LAUN 11 9 99 LOSS 0 0 582 0	GAIN 0 0 555 0	10 10 10 10 0 0 0 0 7 14 0 0	0 SS GAIN 0 0 5 139 0	0 0 0	10 10 100 LOSS 0 0 0 0	GAIN 0 0 0 0	0 0 0 0	140 .OSS GAII 0 0 0 0 0 0 0 0	N			0 0 0 3	33 9 297 LOSS G 0 0 0 62	0 0 0 99	98 LO3 0 0 0 0 6 12 0 0	7 SS GAIN 0 0 5 119 0
ROOM USE EXP. WALL CLG. HT.  GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS	20.8 1: 20.8 3: 20.8 1: 20.8 3: 34.1 13 19.6 2	2.8 2.9 3.8 2.9 2.1		3462	0 34 21 0 0	50 10 500 LOSS 0 706 436 0 0	GAIN 0 1119 416 0 0	0 0 0 0 73 1 0	60 110 500 DSS GAIN 0 0 0 0 517 2403 0 0			3487	0 28 0 0	LAUN 11 9 99 LOSS 0 0 582 0 0	GAIN 0 0 555 0 0	10 10 LOS 0 0 0 0 7 14 0 0 0 0 20 39	0 SS GAIN 0 0 5 139 0 0	0 0 0 0	10 100 LOSS 0 0 0 0	GAIN 0 0 0 0	0 0 0 0 0	140 140 .OSS GAII 0 0 0 0 0 0 0 0 392 58	N			0 0 0 3 0	33 9 297 LOSS G 0 0 0 62	0 0 0 99 0	144 99 98 LOS 0 0 0 0 0 6 12 0 0 0 0 0	7 SS GAIN 0 0 5 119 0 0
ROOM USE EXP. WALL CLG. HT.  GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL	20.8 1: 20.8 3: 20.8 1: 20.8 3: 34.1 13 19.6 2 3.5 0	2.8 2.9 2.8 2.9 2.1 9		3462	0 34 21 0 0 445	50 10 500 LOSS 0 706 436 0 0	GAIN 0 1119 416 0 0 0	0 0 0 0 73 1 0 0	60 10 500 50SS GAIN 0 0 0 0 517 2403 0 0 0 0			3487	0 28 0 0 0 71	LAUN 11 9 99 LOSS 0 0 582 0 0 0 246	GAIN 0 0 555 0 0 0	10 10 10 10 0 0 0 0 7 14 0 0 0 0 20 39 73 25	0 SS GAIN 0 0 5 139 0 0 2 58 3 38	0 0 0 0 0 100	10 10 100 LOSS 0 0 0 0 0 0 0 347	GAIN 0 0 0 0 0 0	0 0 0 0 0 20 120	140 .OSS GAII 0 0 0 0 0 0 0 0 0 0 392 58 416 62	N			0 0 0 3 0 0	33 9 297 LOSS G 0 0 0 62 0 0	0 0 0 99 0 0	144 99 98 LOS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7 SS GAIN 0 0 5 119 0 0
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BSMT WALL ABOVE GR	20.8 1: 20.8 3: 20.8 3: 20.8 3: 34.1 13 19.6 2 3.5 0 3.5 0	2.8 2.9 3.8 2.9 2.1 9 5		3462	0 34 21 0 0 0 445	50 10 500 LOSS 0 706 436 0 0 1543	GAIN 0 1119 416 0 0 229	0 0 0 73 1 0 0 527 1	600 600 COSS GAIN 0 0 0 0 517 2403 0 0 0 0 827 271 0 0			3487	0 28 0 0 0 71	LAUN 11 9 99 LOSS 0 0 582 0 0 0 246 0	GAIN 0 0 555 0 0 0 36	10 10 10 0 0 0 0 7 14 0 0 0 0 20 39 73 25 0 0	0 SS GAIN 0 0 5 139 0 0 2 58 3 38	0 0 0 0 0 100	10 10 100 LOSS 0 0 0 0 0 0 0 347 0	GAIN 0 0 0 0 0 0 51	0 0 0 0 0 0 20 120 0	140 OSS GAII 0 0 0 0 0 0 0 0 0 0 392 58 416 62 0 0	<b>1</b>			0 0 0 3 0 0 0	33 9 297 LOSS G 0 0 0 62 0 0 0	0 0 0 99 0 0 0	144 99 98 LOS 0 0 0 0 12 0 0 0 0 0 0 0 0 0 345 12	7 SS GAIN 0 0 5 119 0 0 0 0
ROOM USE EXP. WALL CLG. HT.  GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BBMT WALL ABOVE OR EXPOSED CLG	20.8 1: 20.8 3: 20.8 3: 20.8 3: 34.1 13 19.6 2 3.5 0 3.5 0 1.3 0	2.8 2.9 3.8 2.9 2.1 9 5 5		3462	0 34 21 0 0 0 445 0	50 10 500 LOSS 0 706 436 0 0 1543 0	GAIN 0 1119 416 0 0 229 0	L L L L L L L L L L L L L L L L L L L	600 600 CSS GAIN 0 0 0 0 0 0 5517 2403 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			3487	0 28 0 0 0 71 0 80	LAUN 11 9 99 LOSS 0 0 582 0 0 246 0 100	GAIN 0 0 555 0 0 36 0	10 LOS 0 0 0 0 7 14 0 0 0 0 20 39 73 25 0 0 0 0	0 SS GAIN 0 0 5 139 0 0 2 58 3 38 0	0 0 0 0 0 100 0	10 10 100 LOSS 0 0 0 0 0 0 0 347 0	GAIN 0 0 0 0 0 0 51 0	0 0 0 0 0 20 120 0	140  140  OSS GAII  0 0 0  0 0 0  0 0 0  392 58  416 62  0 0 0	N N			0 0 0 3 0 0 0	33 9  297  LOSS G 0 0 0 62 0 0 685 1	0 0 0 99 0 0 0 102 3	98 LOS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7
ROOM USE EXP. WALL CLG. HT.  GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BSMT WALL ABOVE GR EXPOSED CLG	20.8 1: 20.8 3: 20.8 1: 20.8 3: 34.1 13 19.6 2 3.5 0 3.5 0 1.3 0 2.7 1	2.8 2.9 1.8 2.9 2.1 9 5 5 5 6 2		3462	0 34 21 0 0 0 445	50 10 500 LOSS 0 706 436 0 0 1543 0	GAIN 0 1119 416 0 0 229	0 0 0 73 1 0 0 527 1	600 600 CSS GAIN 0 0 0 0 5517 2403 0 0 0 0 827 271 0 0 0 0			3487	0 28 0 0 0 71 0 80	LAUN 11 9 99 LOSS 0 0 582 0 0 0 246 0	GAIN 0 0 555 0 0 36 0 45	10 LOS 0 0 0 7 14 0 0 0 20 39 73 25 0 0 0	0 SS GAIN 0 0 5 139 0 0 2 58 3 38	0 0 0 0 0 100 0	10 10 100 LOSS 0 0 0 0 0 0 0 347 0	GAIN 0 0 0 0 0 0 51	0 0 0 0 0 0 20 120 0	14 10 140 OSS GAII 0 0 0 0 0 0 0 0 0 0 0 392 58 416 62 0 0 0 0	N			0 0 0 3 0 0 0	33 9 297 LOSS G 0 0 0 62 0 0 0 685 1	0 0 0 99 0 0 0 0 102 3	144 99 98 LOS 0 0 0 0 12 0 0 0 0 0 0 0 0 0 345 12	8 7 SS GAIN 0 0 0 5 119 0 0 0 0 12 180 0 0 0
ROOM USE EXP. WALL CLG. HT.  GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BBMT WALL ABOVE GR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR	20.8 1: 20.8 3: 20.8 3: 20.8 3: 34.1 13 19.6 2 3.5 0 3.5 0 1.3 0	2.8 2.9 1.8 2.9 2.1 9 5 5 5 6 2		3462	0 34 21 0 0 0 445 0	50 10 500 LOSS 0 706 436 0 0 1543 0	GAIN 0 1119 416 0 0 229 0	0 0 0 73 1 0 0 527 1 0	600 600 CSS GAIN 0 0 0 0 5517 2403 0 0 0 0 0 0 827 271 0 0 0 0			3487	0 28 0 0 0 71 0 80	LAUN 11 9 99 LOSS 0 0 582 0 0 246 0 100 0	GAIN 0 0 555 0 0 36 0	10 LOS 0 0 0 7 14 0 0 0 20 39 73 25 0 0 0	0 SS GAIN 0 0 5 139 0 0 0 2 58 3 38 0 0 0 0	0 0 0 0 0 100 0	10 10 100 LOSS 0 0 0 0 0 0 0 347 0 0	GAIN 0 0 0 0 0 51 0	0 0 0 0 0 20 120 0	140  140  OSS GAII  0 0 0  0 0 0  0 0 0  392 58  416 62  0 0 0  0 0 0	N			0 0 0 3 0 0 0 195	33 9 297 LOSS G 0 0 0 62 0 0 0 685 1	0 0 0 99 0 0 0 0 102 3	98 LOS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 7
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BSMT WALL ABOVE GR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED LG EXPOSED LG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS	20.8 1: 20.8 3: 20.8 1: 20.8 3: 34.1 13 19.6 2 3.5 0 3.5 0 1.3 0 2.7 1	2.8 2.9 1.8 2.9 2.1 9 5 5 5 6 2		3462	0 34 21 0 0 0 445 0	50 10 500 LOSS 0 706 436 0 0 1543 0	GAIN 0 1119 416 0 0 229 0	0 0 0 73 1 0 0 527 1 0	600 600 CSS GAIN 0 0 0 0 5517 2403 0 0 0 0 827 271 0 0 0 0			3487	0 28 0 0 0 71 0 80	LAUN 11 9 99 LOSS 0 0 582 0 0 246 0 100 0	GAIN 0 0 555 0 0 36 0 45	10 LOS 0 0 0 7 14 0 0 0 20 39 73 25 0 0 0	0 SS GAIN 0 0 5 139 0 0 0 2 58 3 38 0 0 0 0	0 0 0 0 0 100 0	10 10 100 LOSS 0 0 0 0 0 0 0 347 0 0	GAIN 0 0 0 0 0 51 0	0 0 0 0 0 20 120 0	14 10 140 OSS GAII 0 0 0 0 0 0 0 0 0 0 0 392 58 416 62 0 0 0 0	<b>N</b>			0 0 0 3 0 0 0 195	33 9 297 LOSS G 0 0 0 62 0 0 0 685 1	0 0 0 99 0 0 0 0 102 3	98 LOS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 7
ROOM USE EXP. WALL CLG. HT.  GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BBMT WALL ABOVE GR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR	20.8 1: 20.8 3: 20.8 1: 20.8 3: 34.1 13 19.6 2 3.5 0 3.5 0 1.3 0 2.7 1	2.8 2.9 1.8 2.9 2.1 9 5 5 5 6 2		3462	0 34 21 0 0 0 445 0	50 10 500 LOSS 0 706 436 0 0 1543 0 0 0	GAIN 0 1119 416 0 0 229 0	0 0 0 73 1 0 0 527 1 0	600 600 CSS GAIN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			3487	0 28 0 0 0 71 0 80	LAUN 11 9 99 LOSS 0 0 582 0 0 246 0 100 0 0	GAIN 0 0 555 0 0 36 0 45	100 100 100 100 100 100 100 100 100 100	0 SS GAIN 0 0 0 5 139 0 0 2 58 3 38 0 0 0 0	0 0 0 0 0 100 0	10 10 100 LOSS 0 0 0 0 0 0 0 347 0 0 0	GAIN 0 0 0 0 0 51 0	0 0 0 0 0 20 120 0 0	14 10 140 OSS GAII 0 0 0 0 0 0 0 0 0 392 58 416 62 0 0 0 0 0 0	7			0 0 0 3 0 0 0 195	33 9  297  LOSS G 0 0 0 62 0 0 685 1 0 0	0 0 0 99 0 0 0 0 102 3	98 LOS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7 SS GAIN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
ROOM USE EXP. WALL CLG. HT.  GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BMALL ABOVE GR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT LOSS	20.8 1: 20.8 3: 20.8 1: 20.8 3: 34.1 13 19.6 2 3.5 0 3.5 0 1.3 0 2.7 1	2.8 2.9 1.8 2.9 2.1 9 5 5 5 6 2		3462	0 34 21 0 0 0 445 0	50 10 500 LOSS 0 706 436 0 0 1543 0 0 0	GAIN 0 11119 416 0 0 0 229 0 0 0 0 0	0 0 0 73 1 0 0 527 1 0	600 100 COSS GAIN 0 0 0 0 0 0 517 2403 0 0 0 0 0 0 827 271 0 0 0 0 0 0 0 0 0	i i		3487	0 28 0 0 0 71 0 80	LAUN 11 9 99 LOSS 0 0 582 0 0 246 0 100 0 0 0	GAIN 0 0 5555 0 0 0 36 0 45 0	100 100 100 100 100 100 100 100 100 100	O SS GAIN 0 0 0 5 139 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 100 0	10 10 100 LOSS 0 0 0 0 0 0 347 0 0 0	GAIN 0 0 0 0 0 0 51 0 0 0 0 0	0 0 0 0 0 20 120 0 0	14 10 140 OSS GAII 0 0 0 0 0 0 0 0 0 392 58 416 62 0 0 0 0 0 0				0 0 0 3 0 0 0 195	33 9 297 LOSS G 0 0 0 62 0 0 0 685 1 0 0 0	0 0 99 0 0 0 0 1102 3	98 LOS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 503	8 7 SS GAIN 0 0 0 119 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BSMT WALL ABOVE GR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT GAIN	20.8 1: 20.8 3: 20.8 1: 20.8 3: 34.1 13 19.6 2 3.5 0 3.5 0 1.3 0 2.7 1	2.8 2.9 1.8 2.9 2.1 9 5 5 5 6 2		3462	0 34 21 0 0 0 445 0 0 0	50 10 500 LOSS 0 706 436 0 0 0 1543 0 0 0 0 2686	GAIN 0 1119 416 0 0 229 0 0	0 0 0 73 1 0 0 527 1 0 0	600 100 500 500 500 600 0 0 0 0 0 0 0 0 0 0 0	i i		3487	0 28 0 0 0 71 0 80 0	LAUN 11 9 99 LOSS 0 0 582 0 0 246 0 100 0 0 928	GAIN 0 0 555 0 0 36 0 45	100 100 100 100 100 100 100 100 100 100	0 SS GAIN 0 0 0 5 139 0 0 2 58 3 38 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 100 0 0 0	10 10 100 LOSS 0 0 0 0 0 0 347 0 0 0 0 0 347	GAIN 0 0 0 0 0 51 0	0 0 0 0 0 20 120 0 0	14 10 140 OSS GAII 0 0 0 0 0 0 0 0 0 392 58 416 62 0 0 0 0 0 0 0 0 0 0				0 0 0 3 0 0 0 195	33 9 297 LOSS G 0 0 0 62 0 0 0 685 1 0 0 0	0 0 0 99 0 0 0 0 102 3 0	144 99 98 LOS 0 0 0 0 0 0 6 122 0 0 0 0 0 0 0 0 0 0 0 0 503 636	8 7 7 SS GAIN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BSMT WALL ABOVE GR EXPOSED CLG NO ATTIC EXPOSED CLG NO ATTIC EXPOSED CLG SEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER	20.8 1: 20.8 3: 20.8 1: 20.8 3: 34.1 13 19.6 2 3.5 0 3.5 0 1.3 0 2.7 1	2.8 2.9 1.8 2.9 2.1 9 5 5 5 6 2		3462	0 34 21 0 0 0 445 0 0 0	50 10 500 LOSS 0 706 436 0 0 1543 0 0 0 0 0 2686	GAIN 0 11119 416 0 0 0 229 0 0 0 0 0	0 0 0 0 73 1 0 0 527 1 0 0 0	600 100 500 500 500 600 0 0 0 0 0 0 0 0 0 0 0	i i		3487	0 28 0 0 0 71 0 80	LAUN 11 9 99 LOSS 0 0 582 0 0 246 0 100 0 0 0	GAIN 0 0 5555 0 0 0 36 0 45 0	100 100 100 100 100 100 100 100 100 100	O SS GAIN O O O O O O O O O O O O O O O O O O O	0 0 0 0 0 100 0	10 10 100 LOSS 0 0 0 0 0 0 347 0 0 0	GAIN 0 0 0 0 0 0 51 0 0 0 0 0	0 0 0 0 0 20 120 0 0 0	14 10 140 OSS GAIII 0 0 0 0 0 0 0 0 0 0 0 0 392 58 416 62 0 0 0 0 0 0 0 0 0				0 0 0 3 0 0 0 195	33 9 297 LOSS G 0 0 0 62 0 0 0 685 1 0 0 0	0 0 0 99 0 0 0 0 102 3 0	98 LOS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 503	8 7
ROOM USE EXP. WALL CLG. HT.  GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED BANT WALL ABOVE OR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED CLG NO ATTIC EXPOSED CLG SEMENTICRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS	20.8 1: 20.8 3: 20.8 1: 20.8 3: 34.1 13 19.6 2 3.5 0 3.5 0 1.3 0 2.7 1	2.8 2.9 1.8 2.9 2.1 9 5 5 5 6 2		3462	0 34 21 0 0 0 445 0 0 0	50 10 500 LOSS 0 706 436 0 0 0 1543 0 0 0 0 2686	GAIN 0 11119 416 0 0 0 229 0 0 0 0 0	0 0 0 0 73 1 0 0 527 1 0 0 0	600 100 CSS GAIN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	i i		3487	0 28 0 0 0 71 0 80 0	LAUN 11 9 99 LOSS 0 0 582 0 0 246 0 100 0 0 928	GAIN 0 0 5555 0 0 36 0 45 0	100 100 100 100 100 100 100 100 100 100	O SS GAIN O O O O O O O O O O O O O O O O O O O	0 0 0 0 0 100 0 0 0	10 10 100 LOSS 0 0 0 0 0 0 347 0 0 0 0 0 347	GAIN 0 0 0 0 0 51 0 0 0 0 51	0 0 0 0 0 20 120 0 0 0	14 10 140 OSS GAII 0 0 0 0 0 0 0 0 0 392 58 416 62 0 0 0 0 0 0 0 0 0 0				0 0 0 3 0 0 0 195	33 9 297 LOSS G 0 0 0 62 0 0 0 685 1 0 0 0	0 0 0 99 0 0 0 0 102 3 0	144 9  988 LO3  0 0 0  6 12  0 0 0  0 0 0  345 12  0 0 0  503  636	8 7 7 SS GAIN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
ROOM USE EXP. WALL CLG. HT.  GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED CLG EXPOSED CLG ON 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	20.8 1: 20.8 3: 20.8 1: 20.8 3: 34.1 13 19.6 2 3.5 0 3.5 0 1.3 0 2.7 1	2.8 2.9 1.8 2.9 2.1 9 5 5 5 6 2		3462	0 34 21 0 0 0 445 0 0 0	50 10 500 LOSS 0 706 436 0 0 1543 0 0 0 0 0 2686	GAIN 0 11119 4116 0 0 0 2229 0 0 0 0 17764	0 0 0 0 73 1 0 0 527 1 0 0 0	600 100 500 500 500 0 0 0 0 0 0 517 2403 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	i i		3487	0 28 0 0 0 71 0 80 0	LAUN 11 9 99 LOSS 0 0 582 0 0 246 0 100 0 0 928	GAIN 0 0 5555 0 0 0 36 0 45 0	100 100 100 100 100 100 100 100 100 100	0 GAIN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 100 0 0 0	10 10 100 LOSS 0 0 0 0 0 0 347 0 0 0 0 0 347	GAIN 0 0 0 0 0 0 51 0 0 0 0 0	0 0 0 0 0 20 120 0 0 0	14 10 140 OSS GAIII 0 0 0 0 0 0 0 0 0 392 58 416 62 0 0 0 0 0 0 0 0				0 0 0 3 0 0 0 195	33 9 297 LOSS G 0 0 0 62 0 0 0 685 1 0 0 0	0 0 0 99 0 0 0 0 102 3 0	144 9  988 LO3  0 0 0  6 12  0 0 0  0 0 0  345 12  0 0 0  503  636	8 7
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED USG EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT GOSS AIR CHANGE HEAT GOSS AIR CHANGE HEAT GAIN DUCT LOSS	20.8 1: 20.8 3: 20.8 1: 20.8 3: 34.1 13 19.6 2 3.5 0 3.5 0 1.3 0 2.7 1	2.8 2.9 1.8 2.9 2.1 9 5 5 5 6 2		3462	0 34 21 0 0 0 445 0 0 0	50 10 500 LOSS 0 706 436 0 0 0 1543 0 0 0 0 2686	GAIN 0 11119 4116 0 0 0 2229 0 0 0 0 17764	0 0 0 0 73 1 0 0 527 1 0 0 0	600 100 000 000 000 000 000 000 000 000	i i		3487	0 28 0 0 0 71 0 80 0	LAUN 11 9 99 LOSS 0 0 552 0 0 246 0 1100 0 0 928 0.26 239	GAIN 0 0 5555 0 0 36 0 45 0	100 100 100 100 100 100 100 100 100 100	0 GAIN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 100 0 0 0	10 10 100 LOSS 0 0 0 0 0 0 347 0 0 0 0 347 141	GAIN 0 0 0 0 0 51 0 0 0 0 51	0 0 0 0 0 20 120 0 0 0	14 10 140 OSS GAII 0 0 0 0 0 0 0 0 0 392 58 416 62 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				0 0 0 3 0 0 0 195	33 9 297 LOSS G 0 0 0 62 0 0 0 685 1 0 0 0	0 0 0 99 0 0 0 0 102 3 0	144 99 988 LO3 0 0 0 0 6 122 0 0 0 0 0 0 0 345 122 0 0 0 503 636 0.50 0.7	8 7 SS GAIN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
ROOM USE EXP. WALL CLG. HT.  GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED CLG EXPOSED CLG ON 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	20.8 1: 20.8 3: 20.8 1: 20.8 3: 3.4.1 13 19.6 2: 3.5 0 2.7 1 2.5 0	2.8 2.9 1.8 2.9 2.1 9 5 5 5 6 2		3462	0 34 21 0 0 0 445 0 0 0	50 10 500 LOSS 0 706 436 0 0 0 1543 0 0 0 0 2686	GAIN 0 11119 416 0 0 0 229 0 0 0 0	0 0 0 0 73 1 0 0 527 1 0 0 0	600 100 DSS GAIN 0 0 0 0 0 517 2403 0 0 0 0 0 0 827 271 0 0 0 0 0 0 0 0 0 0 0 0 0 0 107 3444 2673 41 361 177	i i		3487	0 28 0 0 0 71 0 80 0	LAUN 11 9 99 LOSS 0 0 552 0 0 246 0 1100 0 0 928 0.26 239	GAIN 0 0 5555 0 0 36 0 45 0 0	100 100 100 100 100 100 100 100 100 100	OSS GAIN 0 0 5 139 0 0 2 58 3 38 0 0 0 0 2 139 10 2 15	0 0 0 0 0 100 0 0 0	10 10 100 LOSS 0 0 0 0 0 0 347 0 0 0 0 347 141	GAIN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 20 120 0 0 0	14 10   140   OSS GAIII   0				0 0 0 3 0 0 0 195	33 9 297 LOSS G 0 0 62 0 0 685 1 0 0 747	0 0 0 99 0 0 0 0 102 3 0	144 99 988 LO3 0 0 0 0 6 122 0 0 0 0 0 0 0 345 122 0 0 0 503 636 0.50 0.7	8 7 7 SS GAIN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
ROOM USE EXP. WALL CLG. HT.  GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BMIT WALL ABOVE GR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT GAIN DUCT LOSS DUCT GAIN	20.8 1: 20.8 3: 20.8 1: 20.8 3: 3.4.1 13 19.6 2: 3.5 0 2.7 1 2.5 0	2.8 2.9 1.8 2.9 2.1 9 5 5 5 6 2		3462	0 34 21 0 0 0 445 0 0 0	50 10 500 LOSS 0 706 436 0 0 0 1543 0 0 0 0 2686	GAIN 0 11119 416 0 0 0 229 0 0 0 0	0 0 0 73 1 0 0 527 1 0 0 0	600 100 DSS GAIN 0 0 0 0 0 517 2403 0 0 0 0 0 0 827 271 0 0 0 0 0 0 0 0 0 0 0 0 0 0 107 3444 2673 41 361 177	i i		3487	0 28 0 0 0 71 0 80 0 0	LAUN 11 9 99 LOSS 0 0 552 0 0 246 0 1100 0 0 928 0.26 239	GAIN 0 0 5555 0 0 36 0 45 0 0	100 100 100 100 100 100 100 100 100 100	OSS GAIN  0 0 5 139 0 0 2 58 3 38 0 0 0 0 2 234 1 2 15	0 0 0 0 0 100 0 0 0	10 10 100 LOSS 0 0 0 0 0 0 347 0 0 0 0 347 141	GAIN 0 0 0 0 0 0 51 0 0 0 0 0 51 0 0 0 0 0 0	0 0 0 0 0 20 120 0 0 0	14 10   140   OSS GAIII   0				0 0 0 3 0 0 0 195 0 0	33 9 297 LOSS G 0 0 62 0 0 685 1 0 0 747	0 0 0 999 0 0 0 0 102 3	144 99 988 LO3 0 0 0 0 6 122 0 0 0 0 0 0 0 345 122 0 0 0 503 636 0.50 0.7	8 7 SS GAIN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
ROOM USE EXP. WALL CLG. HT.  GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED BSMT WALL ABOVE OR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED CLG NO ATTIC EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT LOSS SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS DUCT GAIN DUCT LOSS DUCT GAIN	20.8 1: 20.8 3: 20.8 1: 20.8 3: 3.4.1 13 19.6 2: 3.5 0 2.7 1 2.5 0	2.8 2.9 1.8 2.9 2.1 9 5 5 5 6 2		3462	0 34 21 0 0 0 445 0 0 0	50 10 500 LOSS 0 706 436 0 0 0 1543 0 0 0 0 2686	GAIN 0 1119 416 0 0 0 229 0 0 0 1764 117 0 0	0 0 0 0 73 1 0 0 527 1 0 0 0 0 0	600   100   500	i i		3487	0 28 0 0 0 71 0 80 0 0	LAUN 11 9 99 LOSS 0 0 552 0 0 246 0 1100 0 0 928 0.26 239	GAIN 0 0 5555 0 0 0 36 0 45 0 0 0 636 42 0 0	100 100 100 100 100 100 100 100 100 100	O GAIN	0 0 0 0 0 100 0 0 0	10 10 100 LOSS 0 0 0 0 0 0 347 0 0 0 0 347 141	GAIN 0 0 0 0 511 0 0 0 0 511 3 3 0 0 0	0 0 0 0 0 20 120 0 0 0	14 10   140   OSS GAII   0				0 0 0 3 0 0 0 195 0 0	33 9 297 LOSS G 0 0 62 0 0 685 1 0 0 747	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	144 99 988 LO3 0 0 0 0 6 122 0 0 0 0 0 0 0 345 122 0 0 0 503 636 0.50 0.7	8 7 7 SS GAIN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
ROOM USE EXP. WALL CLG. HT.  GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED CLG EXPOSED CLG EXPOSED CLG 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 HEAT GAIN PEOPLE HEAT GAIN APPLIANCES/LIGHTS	20.8 1: 20.8 3: 20.8 1: 20.8 3: 3.4.1 13 19.6 2: 3.5 0 2.7 1 2.5 0	2.8 2.9 1.8 2.9 2.1 9 5 5 5 6 2		3462	0 34 21 0 0 0 445 0 0 0	50 10 500 LOSS 0 706 436 0 0 0 1543 0 0 0 0 2686 0.41 1093	GAIN 0 1119 416 0 0 0 229 0 0 0 1764 117 0 0	0 0 0 0 73 1 0 0 527 1 0 0 0 0 0	600 100 DSS GAIN 0 0 0 0 0 517 2403 0 0 0 0 0 827 271 0 0 0 0 0 0 0 0 0 0 0 107 3444 2673 41 177 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	į		3487	0 28 0 0 0 71 0 80 0 0	LAUN 11 9 99 LOSS 0 0 0 582 0 0 0 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 5555 0 0 0 36 0 45 0 0 0 636 42 0 0	100 100 100 100 100 100 100 100 100 100	O GAIN	0 0 0 0 0 100 0 0 0	10 10 100 LOSS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 0 0 511 0 0 0 0 511 3 3 0 0 0	0 0 0 0 0 20 120 0 0 0	14 10   140   OSS GAIII   0				0 0 0 3 0 0 0 195 0 0	33 9 297 LOSS G 0 0 62 : 0 0 685 1 0 0 747	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	144 99 988 LOS 0 0 0 0 0 6 122 0 0 0 0 0 345 124 0 0 0 503 636 636 0 0.50	8 7 7 SS GAIN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

TOTAL HEAT GAIN BTU/H:

24308 TONS: 2.03 LOSS DUE TO VENTILATION LOAD BTU/H: 1274

STRUCTURAL HEAT LOSS: 34605

TOTAL COMBINED HEAT LOSS BTU/H: 35879

Mhebal Kounke. INDIVIDUAL BCIN: 1969 MICHAEL O'ROURKE

В



СС

СВ

В

С

SITE NAME: SUMMER RIDGE ESTATES			
BUILDER: ROYAL PINE HOMES	TYPE: 2504-END DATE: Ju	ın-24 GFA: 2027 LO# 105279	
	furnace pressure 0.6		
HEATING CFM 770 COOLING CFM 770	furnace filter 0.00 FACTORY INSTALLED	CARRIER AFUE = 96 %	
TOTAL HEAT LOSS 34,605 TOTAL HEAT GAIN 24,119	a/c coil pressure 0.26	<b>59SC6A040M1410 40</b> INPUT (BTU/H) = 40,000	
AIR FLOW RATE CFM 22.25 AIR FLOW RATE CFM 31.93	available pressure	FAN SPEED OUTPUT (BTU/H) = 39,000	
	for s/a & r/a 0.34	LOW 0	
RUN COUNT 4th 3rd 2nd 1st Bas		MEDLOW 545 DESIGN CFM =	
S/A 0 0 9 7 3		0.16 MEDIUM 770 CFM @ .6 " E.S.P.	
R/A 0 0 4 2 1		0.02 MEDIUM HIGH 925	
All S/A diffusers 4"x10" unless noted otherwise on layout.	min adjusted pressure s/a 0.16 adjusted pressure r/a	0.14 HIGH 0 TEMPERATURE RISE 47 °F	
All S/A runs 5"Ø unless noted otherwise on layout.			
RUN# 1 2 3 4 5 6	7 10 12 13	14 15 17 18 19 20 21 22 23	
ROOM NAME MBR ENS BED-2 BED-3 BED-3		(/B/F K/B/F LAUN PWD FOY MUD BAS BAS BAS	
RM LOSS MBH. 1.43 1.56 1.22 1.22 1.14 1.14		2.35	
CFM PER RUN HEAT 32 35 27 27 25 25	12 32 42 42	52 52 26 25 11 25 93 93 93	
RM GAIN MBH. 1.73 1.03 1.74 1.74 1.67 1.67		2.40 2.40 1.97 0.32 0.07 0.17 0.59 0.59	
CFM PER RUN COOLING 55 33 56 56 53 53	5 55 56 56	77 77 63 10 2 5 19 19 19	
ADJUSTED PRESSURE 0.17 0.17 0.17 0.17 0.17 0.17		0.17	
ACTUAL DUCT LGH. 52 44 48 45 66 62	27 44 41 45	32 22 48 20 38 12 27 16 34	
EQUIVALENT LENGTH 220 190 140 120 210 210		100 110 190 120 110 150 90 120 130	
TOTAL EFFECTIVE LENGTH 272 234 188 165 276 272		132 132 238 140 148 162 117 136 164	
ADJUSTED PRESSURE 0.06 0.07 0.09 0.1 0.06 0.06	0.1 0.07 0.1 0.1	0.13 0.13 0.07 0.12 0.11 0.1 0.13 0.12 0.1	
ROUND DUCT SIZE 5 4 5 5 5 5	4 5 5 5	5 5 5 4 4 4 6 6 6	
HEATING VELOCITY (ff/min) 235 402 198 198 184 184		382 382 191 287 126 287 474 474 474	
COOLING VELOCITY (ff/min) 404 379 411 411 389 389		565 565 463 115 23 57 97 97 97	
OUTLET GRILL SIZE 3X10 3X10 3X10 3X10 3X10 3X10	3X10 3X10 3X10 3X10 3	3X10 3X10 3X10 3X10 3X10 4X10 4X10 4X10	

RUN
ROOM NAM
RM LOSS MBI
CFM PER RUN HEA
RM GAIN MBI
CFM PER RUN COOLIN
ADJUSTED PRESSUR
ACTUAL DUCT LG
EQUIVALENT LENGT
TOTAL EFFECTIVE LENGT
ADJUSTED PRESSUR
ROUND DUCT SIZ
HEATING VELOCITY (ft/mi
COOLING VELOCITY (ft/mi
OUTLET GRILL SIZ
TRUN

С

SUPPLY AIR TRUNK SIZE																	RETURN A	IR TRUNI	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	290	0.12	8	8	х	8	653		TRUNK G	0	0.00	0	0	х	8	0	TRUNK O	0	0.05	0	0	X	8	0
TRUNK B	264	0.06	9.2	12	Х	8	396		TRUNK H	0	0.00	0	0	Х	8	0	TRUNK P	0	0.05	0	0	Х	8	0
TRUNK C	479	0.06	11.4	18	Х	8	479		TRUNK I	0	0.00	0	0	Х	8	0	TRUNK Q	0	0.05	0	0	Х	8	0
TRUNK D	0	0.00	0	0	Х	8	0		TRUNK J	0	0.00	0	0	Х	8	0	TRUNK R	0	0.05	0	0	X	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	0.05	0	0	X	8	0
TRUNK F	0	0.00	0	0	Х	8	0		TRUNK L	0	0.00	0	0	Х	8	0	TRUNK T	0	0.05	0	0	X	8	0
																	TRUNK U	0	0.05	0	0	X	8	0
																	TRUNK V	0	0.05	0	0	Х	8	0
RETURN AIR #	1	2	3	4	5	6										BR	TRUNK W	0	0.05	0	0	Х	8	0
FLOOR	2	2	2	2	1	1										В	TRUNK X	770	0.05	14.3	24	Х	8	578
AIR VOLUME	85	75	72	70	154	175	0	0	0	0	0	0	0	0	0	139	TRUNK Y	392	0.05	11.1	14	X	8	504
PLENUM PRESSURE	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	TRUNK Z	175	0.05	8.2	8	Х	8	394
ACTUAL DUCT LGH.	36	64	70	58	36	49	1	1	1	1	1	1	1	1	1	14	DROP	770	0.05	14.3	24	X	10	462
EQUIVALENT LENGTH	155	205	245	260	155	160	0	0	0	0	0	0	0	0	0	135								
TOTAL EFFECTIVE LH	191	269	315	318	191	209	1	1	1	1	1	1	1	1	1	149								
ADJUSTED PRESSURE	0.07	0.05	0.05	0.05	0.07	0.07	14.32	14.32	14.32	14.32	14.32	14.32	14.32	14.32	14.32	0.10								
ROUND DUCT SIZE	5.8	6	5.9	5.8	7	7.5	0	0	0	0	0	0	0	0	0	6.3								
INLET GRILL SIZE	8	8	8	8	8	8	0	0	0	0	0	0	0	0	0	8								
	X	X	X	X	Χ	Х	X	Χ	Χ	X	Χ	X	X	X	Χ	Χ								
INLET GRILL SIZE	14	14	14	14	14	14	0	0	0	0	0	0	0	0	0	14	1							

В

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В

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TYPE: 2504-END

SUMMER RIDGE ESTATES SITE NAME:

### RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

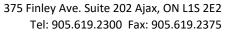
LO#

105279

COMBUSTION APPLIANCES	9.32.3.1(1)	SUPPLEMENTAL VEI	NTILATION CAPACITY			9.32.3.5.
a) Direct vent (sealed combustion) only		Total Ventilation Capa	city	127.2	_	cfm
b) Positive venting induced draft (except fireplaces)		Less Principal Ventil.	Capacity	63.6	_	cfm
c) Natural draft, B-vent or induced draft gas fireplace		Required Supplementa	al Capacity	63.6	_	cfm
d) Solid Fuel (including fireplaces)						
e) No Combustion Appliances		PRINCIPAL EXHAUS	VANEE V150H	Location:	ı	BSMT
HEATING SYSTEM			cfm	Eddadon.		HVI Approved
✓ Forced Air Non Forced Air			T HEAT LOSS CALCULATION			
		СFM 63.6 CFM	ΔT °F X 74 F X	FACTOR 1.08	Х	% LOSS 0.25
Electric Space Heat		SUPPLEMENTAL FAI		ALLING CON		
		Location	Model Model	cfm	HVI	Sones
HOUSE TYPE	9.32.1(2)	ENS BATH	BY INSTALLING CONTRACTOR BY INSTALLING CONTRACTOR	50 50	✓ ✓	3.5 3.5
✓ Type a) or b) appliance only, no solid fuel						
II Type I except with solid fuel (including fireplaces)	)	PWD	BY INSTALLING CONTRACTOR	50	✓	3.5
		HEAT RECOVERY VE				9.32.3.11.
III Any Type c) appliance		Model: 150	VANEE V150H cfm high	35		cfm low
IV Type I, or II with electric space heat		75	0/ Occasible Efficience			11)/1. A
Other: Type I, II or IV no forced air		75	% Sensible Efficiency @ 32 deg F ( 0 deg C)			HVI Approved
		LOCATION OF INSTA	ALLATION			
SYSTEM DESIGN OPTIONS	O.N.H.W.P.	Lot		Concosion		
1 Exhaust only/Forced Air System		Lot:		Concession		
2 HRV with Ducting/Forced Air System		Township		Plan:		
		Address				
→ 3 HRV Simplified/connected to forced air system		Roll #		Building Pern	nit#	
4 HRV with Ducting/non forced air system		BUILDER:	ROYAL PINE HOMES			
Part 6 Design		Name:				
TOTAL VENTILATION CAPACITY	9.32.3.3(1)	Address:				
Basement + Master Bedroom 2 @ 21.2 cfm 42.4	cfm	City:				
Other Bedrooms 2 @ 10.6 cfm 21.2	cfm	Telephone #:		Fax#:		
Kitchen & Bathrooms 4 @ 10.6 cfm 42.4	cfm	INSTALLING CONTR	ACTOR			
Other Rooms 2 @ 10.6 cfm 21.2	cfm	Name:				
Table 9.32.3.A.         TOTAL         127.2	cfm	Address:				
		City:				
PRINCIPAL VENTILATION CAPACITY REQUIRED	9.32.3.4.(1)	Telephone #:		Fax#:		
1 Bedroom 31.8	cfm	DESIGNER CERTIFIC	ATION			
2 Bedroom 47.7	cfm	I hereby certify that thi	s ventilation system has been control of the contro	lesigned		
3 Bedroom 63.6	cfm	Name:	HVAC Designs Ltd.	^		
4 Bedroom 79.5	cfm	Signature:	Micha	1 Ofounde		
5 Bedroom 95.4	cfm	HRAI#		001820		
TOTAL 63.6 cfm	IEIED IN TUE 12	Date:	THED DECICALED IN DEPO DIVIDIO DA	June-24	II DINO C	
I REVIEW AND TAKE RESPONIBILITY FOR THE DESIGN WORK AND AM QUAL	IFIED IN THE AP	PROPRIATE CATEGORY AS AN "O	TITER DESIGNER" UNDER DIVISION C.	J.∠.5 UF THE BU	LDING CO	JUE.



				80-12 Residential Hea										
			Form	iula Sheet (For Air Lea	kage / Ventiliation C	alculation)								
LO#: 10	05279	Model: 2504-END		Builde	uilder: ROYAL PINE HOMES Date: 6/11/2024									
		Volume Calculatio	n				Air Change & Delt	a T Data						
				1										
use Volume	-1 (5:2)		16.2)	1			ATURAL AIR CHANG		0.298					
Level	Floor Area (ft²)	Floor Height (ft)	Volume (ft³)	-		SUMMER N	ATURAL AIR CHAN	JE RATE	0.097					
Bsmt First	914 914	9	8226 9140											
Second	1113	9	10017	-			Design Te	mperature Diff	oronco					
Third	0	9	0				Tin °C	Tout °C	ΔT °C	ΔT °F				
Fourth	0	9	0	1		Winter DTDh	22	-19	41	74				
	<u>-</u>	Total:	27,383.0 ft <sup>3</sup>			Summer DTDc	24	30	6	11				
		Total:	775.4 m³	1										
				•										
	5.2.3	3.1 Heat Loss due to Ai	r Leakage			6.2.6	Sensible Gain due	to Air Leakage						
		V.					IZ.							
	$HL_{airb} =$	$LR_{airh} \times \frac{V_b}{3.6} \times L$	$TD_h \times 1.2$		Н	$IG_{salb} = LR_{airc}$	$\times \frac{v_b}{2c} \times DTD_c$	× 1.2						
0.298		5.0		= 3172 W	= 0.097		5.0			153 W				
0.296	X 215.59	x 41 °C	X 1.2	= 31/2 W	= 0.097	X 215.59	_ x <u>6 °C</u>	X 1.2	L	155 W				
				= 10822 Btu/h	Ţ <b> </b>				= Γ	522 Btu/h				
				10022 500/11	1				L	322 514/11				
	5.2.3.2 He	at Loss due to Mechan	ical Ventilation			6.2.7 Se	ensible heat Gain d	ue to Ventilatio	n					
	$HL_{vairb} =$	$PVC \times DTD_h \times 1$	$.08 \times (1-E)$		HL	$_{vairb} = PVC \times L$	$DTD_h \times 1.08 \times$	(1 - E)						
					_				_					
64 CFM	x 74 °F	x 1.08	x 0.25	= 1274 Btu/h	64 CFM	_ x <u>11°F</u>	x 1.08	x <u>0.25</u>	_ = [	189 Btu/h				
			5.2.3.3 Calcula	tion of Air Change Heat	Loss for Each Room (Flo	or Multiplier Section	)							
		$HL_{ai}$	$r_{rr} = Level Fact$	$or \times HL_{airbv} \times \{(H_{airbv}) \times \{$	$(L_{agcr} + HL_{bgcr}) \div$	$(HL_{agclevel} + HI$	$\mathcal{L}_{bgclevel})$							
				HLairve Air Leakage +		I								
		Level	Level Factor (LF)	Ventilation Heat Loss	Level Conductive Heat	_	• •							
				(Btu/h)	Loss: (HL <sub>clevel</sub> )	HLairby /	HLlevel)							
		1	0.5	15.47111	7,116	0.7	60							
		2	0.3	1	7,974	0.4	07							
		3	0.2	10,822	8,421	0.2	57							
		4	0		0	0.0	00		Michael O'Ro	urke				
		5	0		0	0.0	00		BCIN# 19669					
		*HLairbv = A	ir leakage heat loss -	+ ventilation heat loss					nel 1	1 Ofmule				
			5						111111	1 /11/				







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

			-000 / 1110 0/	30	
MODEL:	2504-END			BUILDER: ROYAL PINE HOME	S
SFQT:	2027	LO#	105279	SITE: SUMMER RIDGE ES	STATES
DESIGN A	SSUMPTIONS				
DESIGN A	330WPTIONS				
HEATING			°F	COOLING	°F
OUTDOOF	R DESIGN TEMP.		-2	OUTDOOR DESIGN TEMP.	86
INDOOR D	ESIGN TEMP.		72	INDOOR DESIGN TEMP. (MAX 75°F)	75
				WINDOW SHGC	0.60
BUILDING	DATA				
ATTACHM	IENT:		DETACHED	# OF STORIES (+BASEMENT):	3
				,	
FRONT FA	CES:		EAST	ASSUMED (Y/N):	Υ
AID CHAN	GES PER HOUR:		3.00	ASSUMED (Y/N):	Υ
AIN CHAIN	GES PER HOUR.		3.00	ASSUMED (17N).	r
AIR TIGHT	NESS CATEGORY:		TIGHT	ASSUMED (Y/N):	Υ
WIND EXP	POSURE:	S	SHELTERED	ASSUMED (Y/N):	Y
HOUSE VO	DLUME (ft³):		27383.0	ASSUMED (Y/N):	Υ
	()			(1,11)	•
INTERNAL	SHADING:	BLINDS	CURTAINS	ASSUMED OCCUPANTS:	4
INTERIOR	LICUTING LOAD (Dt)	h /f+2\.	2.00	DC DDUCHI FCC MOTOD (V/N).	V
INTERIOR	LIGHTING LOAD (Btu/	n/1(*-):	2.00	DC BRUSHLESS MOTOR (Y/N):	Y
FOUNDAT	ION CONFIGURATION		BCIN_1	DEPTH BELOW GRADE:	6.0 ft
			_		
LENGTH:	51.0 ft	WIDTH:	23.0 ft	EXPOSED PERIMETER:	148.0 ft

2012 OBC - COMPLIANCE PACKAGE				
	Compliance Package			
Component	PERFOR	MANCE		
	Nominal	Min. Eff.		
Ceiling with Attic Space Minimum RSI (R)-Value	60	59.22		
Ceiling Without Attic Space Minimum RSI (R)-Value	31	27.65		
Exposed Floor Minimum RSI (R)-Value	31	29.80		
Walls Above Grade Minimum RSI (R)-Value	22+1.5	21.40		
Basement Walls Minimum RSI (R)-Value	20	21.12		
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	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	1.6	-		
Skylights Maximum U-Value	2.6	-		
Space Heating Equipment Minimum AFUE	96%	-		
HRV/ERV Minimum Efficiency	75%	-		
Domestic Hot Water Heater Minimum EF	0.9	-		

INDIVIDUAL BCIN: 19669 MICHAEL O'ROURKE





## **Residential Foundation Thermal Load Calculator**

Supplemental tool for CAN/CSA-F280

We	ather Sta	tion Description										
Province:	Ontario	•										
Region:	Brampto	n										
	Site D	escription										
Soil Conductivity:	Normal o	conductivity: dry sand, loam, clay										
Water Table:	Normal (	7-10 m, 23-33 ft)										
Foundation Dimensions												
Floor Length (m):	15.5											
Floor Width (m):	7.0											
Exposed Perimeter (m):	0.0											
Wall Height (m):	2.7											
Depth Below Grade (m):	1.83	Insulation Configuration										
Window Area (m²):	0.8											
Door Area (m²):	0.0											
	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):		1474										

**TYPE:** 2504-END **LO#** 105279





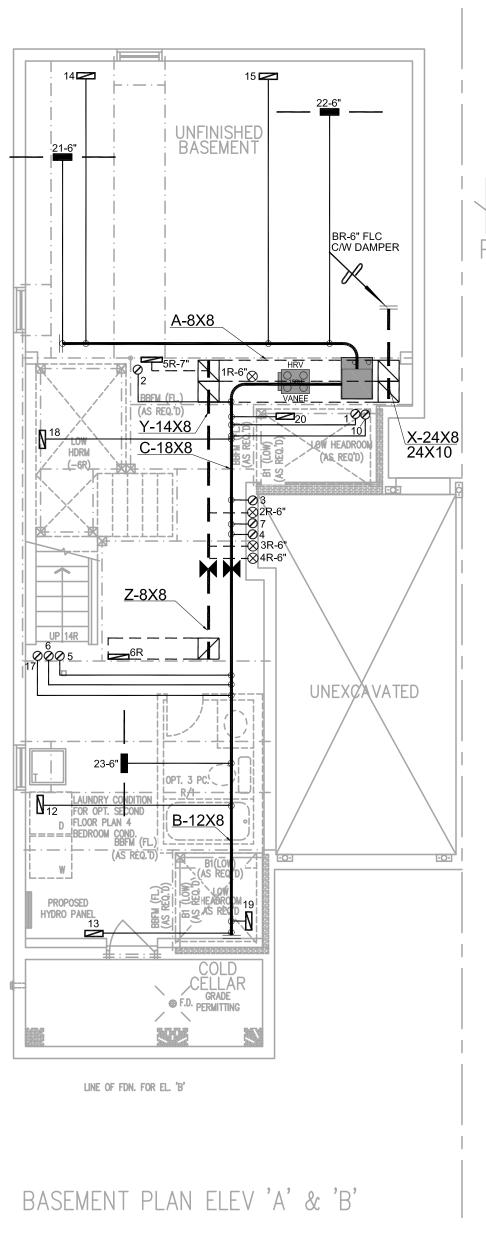
## **Air Infiltration Residential Load Calculator**

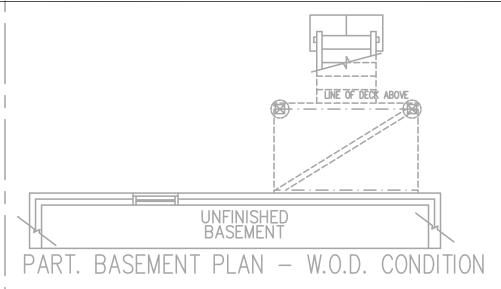
Supplemental tool for CAN/CSA-F280

Weather Statio	n Des	cript	ion		
Province:	Ontai	io			
Region:	Bram	pton			
Weather Station Location:	Open	flat te	rrain, {	grass	
Anemometer height (m):	10				
Local Sh	ieldin	g			
Building Site:	Subui	rban, f	orest		
Walls:	Heav	y			
Flue:	Heav	y			
Highest Ceiling Height (m):	7.62				
Building Cor	nfigura	ation			
Туре:	Detac	ched			
Number of Stories:	Two				
Foundation:	Full				
House Volume (m³):	775.4	•			
Air Leakage/	Venti	latior	1		
Air Tightness Type:	Attac	hed (3	.0 ACH	)	
Custom BDT Data:	ELA @	9 10 Pa	Э.		868.6 cm <sup>2</sup>
	3.00			ACH @ 50 Pa	
Mechanical Ventilation (L/s):	To	tal Sup	ply		Total Exhaust
		30.0			30.0
Flue	Size				
Flue #:	#1	#2	#3	#4	
Diameter (mm):	0	0	0	0	
Natural Infilt	ration	Rate	S		
Heating Air Leakage Rate (ACH/H):		C	.29	8	
Cooling Air Leakage Rate (ACH/H):		C	.09	7	

**TYPE:** 2504-END **LO#** 105279







		3.								
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	2.		
	SUPPLY AIR GRILLE		6" SUPPLY AIR BOOT ABOVE		14"x8" RETURN AIR GRILLE	N	RETURN AIR STACK ABOVE	1.		
	SUPPLY AIR GRILLE 6" BOOT	0	SUPPLY AIR STACK FROM 2nd FLOOR	<u></u>	30"x8" RETURN AIR GRILLE	×	RETURN AIR STACK 2nd FLOOR	No.	Description	Date
	SUPPLY AIR BOOT ABOVE	<b>Ø</b>	6" SUPPLY AIR STACK 2nd FLOOR		FRA- FLOOR RETURN AIR GRILLE	X	REDUCER		REVISIONS	

I Michael O'Rourke have reviewed and take responsibility for the design work and am qualified under division C,3.2.5 of the building

770

FAN SPEED

Michael Ofourhe Michael O'Rourke BCIN # 19669 HVAC Designs Ltd.

ON LAYOUT. UNDERCUT

DOORS 1" min. FOR R/A

SB-12 PERFORMANCE

**BASEMENT** 

**ROYAL PINE HOMES** 

Project Name

SUMMER RIDGE ESTATES BRAMPTON, ONTARIO

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.

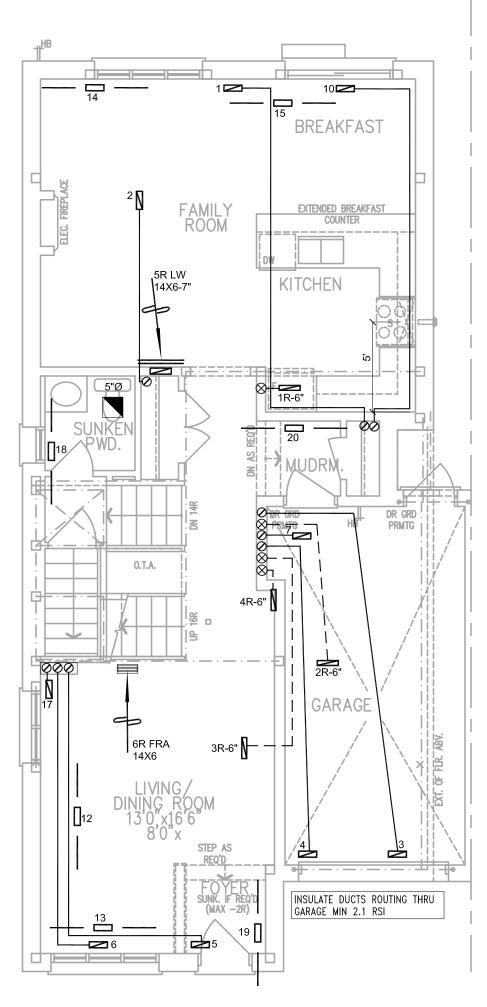
HEAT L	OSS 35879	BTU/H	# OF	RUNS	S/A	R/A	FANS	Sheet Title
	UN <b>I</b> T DATA		3RD	FLOOR				В
MAKE	CARRIER			FLOOR	9	4	3	
MODEL					9	4	3	
	C6A040M14	10	1ST I	FLOOR	7	2	2	
INPUT	40	MBTU/H	BASI	EMENT	3	1	0	Date
OUTPUT		MBTU/H	ALL S	/A DIFFU:	SERS	4 "x10	)"	Scale
	39		UNLE					
COOLING	2.0	TONS	ON LA					
	2.0		UNLE	SS NOTE	DOIL	IERW	ISE	101

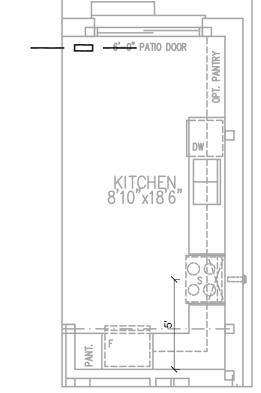
cfm @ 0.6" w.c

**HEATING LAYOUT** JUNE/2024 3/16" = 1'-0" BCIN# 19669

2504-END 2027 sqft

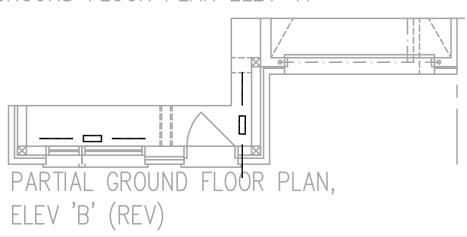
105279 LO#





PARTIAL GROUND FLOOR PLAN ELEV 'A' (W/ OPT. KITCHEN LAYOUT) (ELEV. 'B' SIMILAR)

GROUND FLOOR PLAN ELEV 'A'



HVAC LEGEND								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	$\bowtie$	RETURN AIR STACK 2nd FLOOR	No.	Description	Date
	SUPPLY AIR BOOT ABOVE	<b>Ø</b>	6" SUPPLY AIR STACK 2nd FLOOR		FRA- FLOOR RETURN AIR GRILLE	X	REDUCER		REVISIONS	

I Michael O'Rourke have reviewed and take responsibility for the design work and am qualified under division C,3.2.5 of the building

Michael Offmuche Michael O'Rourke BCIN # 19669 HVAC Designs Ltd.

SB-12 PERFORMANCE

## **ROYAL PINE HOMES**

Project Name

SUMMER RIDGE ESTATES BRAMPTON, ONTARIO

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

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FIRST FLOOR

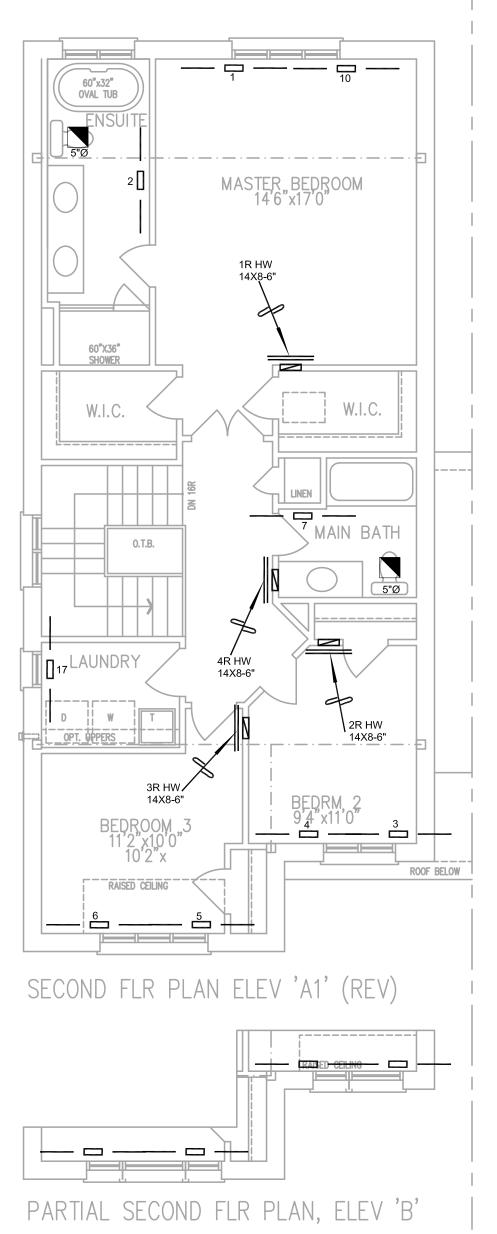
LO#

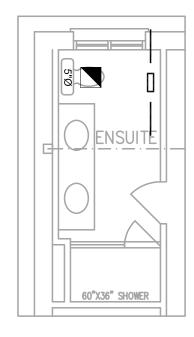
**HEATING LAYOUT** JUNE/2024

3/16" = 1'-0" BCIN# 19669 105279

2504-END

2027 sqft





PARTIAL SECOND FLR PLAN ELEV 'A1' (REV) OPT. ENSUITE LAYOUT (ELEV. 'B1' REV. & 'B2' SIMILAR)

	HVAC LEGEND								
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	<u> </u>	30"x8" RETURN AIR GRILLE	×	RETURN AIR STACK 2nd FLOOR	No. Description	Date
	SUPPLY AIR BOOT ABOVE	<b>Ø</b>	6" SUPPLY AIR STACK 2nd FLOOR		FRA- FLOOR RETURN AIR GRILLE	X	REDUCER	REVISIONS	

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I Michael O'Rourke have reviewed and take responsibility for the design work and am qualified under division C,3.2.5 of the building Michael O'Kowke Michael O'Rourke BCIN # 19669 HVAC Designs Ltd. SB-12 PERFORMANCE

Cllent

## **ROYAL PINE HOMES**

Project Name

SUMMER RIDGE ESTATES BRAMPTON, 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

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SECOND FLOOR

HEATING
LAYOUT

JUNE/2024

Scale 3/16" = 1'-0"

BCIN# 19669

LO# 105279

2504-END

027 so