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			U	nit no.	Lot/con.
Municipality	Postal code	Plan number/ other desc	printion		L
INNISFIL	l ostal code	Flair number/ other desc	aription		
B. Individual who reviews and takes	 				
Name	responsibility to	Firm	ALCOHOL THE WAY TO THE		
MICHAEL O'ROURKE		HVAC DESIGNS LTD.			
Street address			Unit no.		Lot/con.
375 FINLEY AVE			202		N/A
Municipality	Postal code	Province	E-mail		
AJAX	L1S 2E2	ONTARIO	info@hvacdesigr	ns.ca	
Telephone number (905) 619-2300	Fax number (905) 619-2375		Cell number		
	[` '		()		
C. Design activities undertaken by in	dividual identifie	d in Section B. [Build	ing Code Table :	3.5.2.1 OF Divisi	ion C]
☐ House	⊠ HVAC	– House	□ Bu	ilding Structura	al
☐ Small Buildings	🔲 Building	g Services	☐ Plu	umbing - Hous	
☐ Large Buildings ☐ Complex Buildings	☐ Detecti☐ Fire Pro	on, Lighting and Pow	/er 🔲 Plu	ımbing – All Bu	ildings
Description of designer's work	U File File			-site Sewage S	Systems
HEAT LOSS / GAIN CALCULATIONS		Model:	IH-1		
DUCT SIZING					
RESIDENTIAL MECHANICAL VENTILATIO		ARY Project:	ΔΙ COΝΔ		
RESIDENTIAL SYSTEM DESIGN per CSA-		ı roject.	ALCONA		
D. Declaration of Designer		The management of a second section of the	The second secon		and the second of the second of the second
I MICHAEL O'ROURKE	int name)		declare that (choose one as app	propriate):
"	•				
 I review and take responsibility for Division C, of the Building Code. classes/categories. 	r the design work of am qualified, and t	n behalf of a firm registere the firm is registered, in th	ed under subsectior e	n 3.2.4.of appropriate	
Individual BCIN:					
Firm BCIN:					
□ I review and take responsibility for	r the decian and an				
I review and take responsibility fo designer" under subsection 3.2	.5.of Di vision	i qualified in the appropria i C, of the Building Code.	ite category as an "	other	
Individual BCIN:	19669				
Basis for exemption from	om registration and	qualification:	O.B.C SENTEN	ICE 3.2.4.1 (4	<u>1</u>)
☐ The design work is exempt Basis for exemption from registrat	from the registration	on and qualification require	ements of the Build	ing Code.	
I certify that:					
•					
 The information contained I have submitted this applicat 	in this schedu ion with the knowle	le is true to the best of my dge and consent of the fire	knowledge. m.		
June 14, 2018			Michael &	Okounhe	
Date		-		Signature of Designature	mer
Dute				orginature of Desig	31101
NOTE:					

NOTE

Application for a Permit Construct or Demolish - Effective January 1, 2015

^{1.} 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.

^{2.} 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.

DESIGNS LTD.

INDIVIDUAL BCIN: 19669

MICHAEL O'ROURKE

GAIN 44 0 0 575 1017 0 0 0 0 0 0 0 0 0 0 67 670 LOSS 3728 0 0 0 2766 1.16 86 9 9257 0 0 0 410 0.50 TOTAL COMBINED HEAT LOSS BTUIH: 31333 104 0 GAIN 1028 952 0002000 00 0 0 198 .OSS 1052 LOD 22 9 STRUCTURAL HEAT LOSS: 29904 497 0 0 0 0 126 0 0 0 704 6 208 LOS S 240 FOY 16 13 0 0 0 0 0.45 767 2459 0.30 394 541 22 39 OSS W. 8 0.45 0 0 356 518 0.30 000000 0 3594 0 0 276 317 5 oss 2627 0.37 0 0 124 169 OSS DUE TO VENTILATION LOAD BTU/H: 1429 0.20 2838 GAIN 96 2215 180 LOSS 18 t 0 0 0 0 0.45 1940 0.30 GAIN 150 0 0 575 954 210 LOSS 232 0 0 0.45 KIT 21 10 465 1491 0.30 0 210 0 393 038 3601 0 0 0 3352 3502 5559 0 0 5 199 0 0 575 2441 FAM 29 10 290 0 0 0.45 1021 1227 0 0.30 209 GAIN 41.4 101.3 7. 0.7 0.6 1.2 0.4 GRS.WALL AREA LOSS 23.3 23.3 40.8 23.3 27.6 240 3.9 4. ROOM USE EXP. WALL SOUTH EAST DOORS HEAT GAIN PEOPLE TOTAL HT GAIN x 1.3 BTU/H GLAZING **NET EXPOSED WALL** NET EXPOSED BSMT WALL ABOVE GR EXPOSED CLG NO ATTIC EXPOSED CLG CLG. HT. EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT GAIN DUCTLOSS **DUCT GAIN** HEAT GAIN APPLIANCE SALIGHTS TOTAL HTLOSS BTUIH TOTAL HT GAIN x 1.3 BTU/H TOTAL HEAT GAIN BTU/H: 10/18/2018 11:35:45 AM kbayley

CSA-F280-12 SB-12 PACKAGE A1 83 HEAT LOSS AT °F. HEAT GAIN AT °F. 0.348 WINTER NATURAL AIR CHANGE RATE SUMMER NATURAL AIR CHANGE RATE 4 0 0 Loss 0 6 0 0 8 0.37 28 22 0.20 0 DA TE: Jun-18 LO# 78868 0 152 0 1607 92 251 240 575 BED-3 17 9 153 LOSS 0 0 1748 0.37 239 640 0.20 GFA: 1627 1107 198 240 575 S 3ED-2 10 9 0 0 1474 0.37 539 0 419 201 50 49 600 ΝC 54 0.37 28 0.70 TYPE: TH-1 650 72 .0SS 0 0 2 0.37 278 0 0.20 0 0 59 0 120 0 0 0 1385 23 252 480 575 MBR 14 9 oss. 0 0 1624 0.37 594 222 0 179 BUILDER: BAYVIEW WELLINGTON
ROOM USE ME 0.20 0 0 98 0 0 0 0 64 8 GAIN 15.8 41.4 101.3 0.6 1.2 0.4 4.1 0.7 SITE NAME: ALCONA LOSS 23.3 23.3 23.3 40.8 27.6 23.3 4.9 3.9 3.0 2.8 240 NORTH DOORS GRS.WALL AREA GLAZING EAST WEST SKYLT. NET EXPOSED BSMT WALL ABOVE GR HEAT GAIN PEOPLE CLG. HT. **NET EXPOSED WALL** EXPOSED CLG NO ATTIC EXPOSED CLG SUBTOTAL HT LOSS SUB TOTAL HT GAIN AIR CHANGE HEAT LOSS AIR CHANGE HEAT GAIN DUCTLOSS EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS LEVEL FACTOR / MULTIPLIER **DUCT GAIN** HEAT GAIN APPLIANCE SAIGHTS TOTAL HT LOSS BTUIH

	SITS B	E NAME:	SITE NAME: ALCONA BUILDER: BAYVIEW WELLINGTON	W WELL	NGTON			TYPE: TH-1	TH-1		DAT	DATE: Jun-18	ω		GFA:	GFA: 1627	#O	78868	,	1		
	HEATING CFM	800		000	COOLING CFM	800		furnace p	lace pressure fumace filter	0.6 0.05					5		1 🗢		AFUE:	AFUE = 96 %		
	AIR FLOW RATE CFM			IOTAL HEAT GAIN AIR FLOW RATE CFM	FLOW RATE CFM	22.521 35.52		a/c coil r available p	coil pressure ble pressure	0.2				ш	EL196UH045XE24B FAN SPEED	H045XE24B FAN SPEED	45	INP OUTP	INPUT (BTU/H) = $44,000$ OUTPUT (BTU/H) = $42,000$	42,000 + 42,000		
	RUN COUNT	4th	3rd	2nd	1st	Bas		5	8 0 1 a	0.33					2	LOW MEDICAN	00	č	- FEICH CERF			
	S/A	0	0	10	9	6	•	plenum pres	pressure s/a	0.18	r/a pressure				2	MEDIUM	685	5	CFM @ 6" E.S.P.	6"ESP		
	K/A	0	0	4	-	-	max	max s/a dif press. loss	ss. loss	0.02	r/a grille press. Loss		~1		MEDI	JMHIGH	800)			
	All 5/A diffusers 4'X10" unless noted otherwise on layout.	less noted	d otherwis	se on layo	ut.		min adjusted		pressure s/a	0.16	adjusted pressure r/a	r/a 0.15				프	890	TEMPER	EMPERATURE RISE	49	ŗ	
	All S/A runs 5 1/2 unless noted otherwise on layout.	ted other	wise on la	yout.	,																	
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	CFM PER RUN COOLING		32.6	<u>.</u>	7 2	0.07	ر ان	7 02	 8. %	 9. 8.	2.78	2.7		0.27	0.82	0.54	26.0	0.78			0.78	
	ADJUSTED PRESSURE		0 17	0 17	27	7,7	710	2 5	, c	47	, c	S (2 ! 2	53	<u></u>	34	28				
	ACTUAL DUCT LGH.	5	20	45	43	53	- e	46.7	57.	- e	0.10 0.00	0.16	5 0.17	0.17	0.17	0.17	0.17	0.16	0.16		0.16	
	EQUIVALENT LENGTH		180	240	160	170	180	5 5	185	18. 18.	8 C	<u>.</u>		<u> </u>	8 5	- 5	9,5	92.			32	
ľ	TOTAL EFFECTIVE LENGTH		230	285	203	223	219	216	242	223	149	2 2		2 5	212	2 5	140	100			1/0	
_	ADJUSTED PRESSURE		0.07	90.0	0.08	0.08	0.08	0.08	0.07	0 08		7 - 0			0.00	0 0	0 +	120			707	
	ROUND DUCT SIZE		4	4	Ŋ	ည	4	5	5	25				- - -). ().	 	- - -				0.08	
10	HEATING VELOCITY (ft/min)		321	69	220	257	69	220	257	242	419	416		597	12	197	485	469			9	
/18	COOLING VELOCITY (#Min)		367	34	367	470	23	367	470	470	727	727		115	333	218	250	143			143	
3/20	OUTLET GRILL SIZE		3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X1	`	3X10	3X10	3X10	3X10	4X10	`		4X10	
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:35	# NOX																					
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EQUIVALENT LENGTH	185	220	195	195	120	C	c		. c	- ح	٠ ح	- ح	- ح	- c	- c	7.70	2	000	0.03	C.+.	47	Υ.	2	 6
TOTAL EFFECTIVE LH	245	271	244	246	154	-			· -	· -	· ~) «	۰ د	> +	> 4	5 5								
ADJUSTED PRESSURE	90.0	0.05	0.06	0.06	0.10	14.80			14 80	14 80	14 80	14 00	. 7	- 4	- 5	2 5								
ROUND DUCT SIZE	9	9	9	9	8		2		2	<u>.</u>	20.	20.5	50.4	9.4	9.4.00	3,5								
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SUPPLY AIR TRUNK SIZE



TYPE: SITE NAME:

ALCONA

TH-1

LO# 78868

RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

COMBUSTION APPLIANCES	9.32.3.1(1)	SUPPLEMENTAL VENTILATION CAPACITY 9.32	2.3.5.
a)		Total Ventilation Capacity 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 Supplemental Capacity63.6 cfm	
d) Solid Fuel (including fireplaces)			
e) No Combustion Appliances		PRINCIPAL EXHAUST FAN CAPACITY	
		Model: VANEE 65H Location: BSMT	
HEATING SYSTEM		63.6 cfm 3.0 sones ✓ HVI Appro	oved
Forced Air Non Forced Air		PRINCIPAL EXHAUST HEAT LOSS CALCULATION CFM	
		CFM ΔT °F FACTOR % LOSS 63.6 CFM X 83 F X 1.08 χ 0.25	,
Electric Space Heat		SUPPLEMENTAL FANS NUTONE	
		Location Model cfm HVI Sones	,
HOUSE TYPE	9.32.1(2)		
	1	BATH QTXEN050C 50 ✓ 0.3	
Type a) or b) appliance only, no solid fuel	-	LAUN QTXEN050C 50 7 0.3	
II Type I except with solid fuel (including fireplaces	,	W/R QTXEN050C 50 ✓ 0.3	
III Any Type c) appliance	,	HEAT RECOVERY VENTILATOR 9.32.3 Model: VANEE 65H	3.11.
IV Type I, or II with electric space heat		155 cfm high 64 cfm low	v
		75 % Sensible Efficiency ✓ HVI Appro	ved
Other: Type I, II or IV no forced air		@ 32 deg F (0 deg C)	
		LOCATION OF INSTALLATION	
SYSTEM DESIGN OPTIONS	O.N.H.W.P.		
1 Exhaust only/Forced Air System		Lot: Concession	\dashv
2 HRV with Ducting/Forced Air System		Township Plan:	_
3 HRV Simplified/connected to forced air system	ŀ	Address	_
4 HRV with Ducting/non forced air system		Roll # Building Permit #	
Part & Docing		BUILDER: BAYVIEW WELLINGTON	
Part 6 Design		Name:	
TOTAL VENTILATION CAPACITY	9.32.3.3(1)	Address:	
Basement + Master Bedroom 2 @ 21.2 cfm 42.4	cfm		\exists
Basement + Master Bedroom 2 @ 21.2 cfm 42.4 Other Bedrooms 2 @ 10.6 cfm 21.2	cfm	City: Telephone #: Fax #:	_
	'		_
Kitchen & Bathrooms 4 @ 10.6 cfm 42.4	cfm	INSTALLING CONTRACTOR	
Other Rooms 2 @ 10.6 cfm 21.2	cfm	Name:	\dashv
Table 9.32.3.A. TOTAL <u>127.2</u>	cfm	Address:	\dashv
PRINCIPAL VENTILATION CAPACITY REQUIRED	9.32.3.4.(1)	City:	\dashv
	510210171(1)	Telephone #: Fax #:	
1 Bedroom 31.8	cfm	DESIGNER CERTIFICATION	
2 Bedroom 47.7	cfm	I hereby certify that this ventilation system has been designed In accordance with the Ontario Building Code.	
3 Bedroom 63.6	cfm	Name: HVAC Designs Ltd.	\dashv
4 Bedroom 79.5	cfm	Signature: Michael Officence.	
5 Bedroom 95.4	cfm	HRAI # 001820	_
TOTAL 63.6 cfm		Date: June-18	
I REVIEW AND TAKE RESPONIBILITY FOR THE DESIGN WORK AND AM QUA INDIVIDUAL BCIN: 19669 MICHAEL O'RO		PPROPRIATE CATEGORY AS AN "OTHER DESIGNER" UNDER DIVISION C, 3.2.5 OF THE BUILDING CODE.	

Maked Offiche.



DESIGNS LTD.

Tel: 905.619.2300 Fax: 905.619.2375

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

HEAT LOSS AND GAIN SUMMARY SHEET

MODEL: SFQT:	TH-1 1627	LO# 78868	BUILDER: BAYVIEW WELLINGTON SITE: ALCONA	
DESIGN A	SSUMPTIONS			
	R DESIGN TEMP. DESIGN TEMP.	°F -11 72	COOLING OUTDOOR DESIGN TEMP. INDOOR DESIGN TEMP. (MAX 75°F)	°F 84 72
ATTACHM	ENT:	ATTACH	ED # OF STORIES (+BASEMENT):	3
FRONT FA	CES:	EA	ASSUMED (Y/N):	Y
AIR CHANG	GES PER HOUR:	3.	57 ASSUMED (Y/N):	Υ
AIR TIGHT	NESS CATEGORY:	AVERA	GE ASSUMED (Y/N):	Υ
WIND EXP	OSURE:	SHELTERI	ED ASSUMED (Y/N):	Υ
HOUSE VO	LUME (ft³):	21353	3.0 ASSUMED (Y/N):	Υ
INTERNAL	SHADING:	BLINDS/CURTAII	NS ASSUMED OCCUPANTS:	4
INTERIOR I	LIGHTING LOAD (Btu/	h/ft²): 1.:	DC BRUSHLESS MOTOR (Y/N):	Υ
FOUNDATI	ON CONFIGURATION	BCIN	_1 DEPTH BELOW GRADE:	6.0 ft
LENGTH:	50.0 ft	WIDTH: 17.0	ft EXPOSED PERIMETER:	86.0 ft

2012 OBC - COMPLIANCE PACKAGE		
	Compliano	e Package
Component		A1
	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	17.03
Basement Walls Minimum RSI (R)-Value	20 ci	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	0.28	_
Skylights Maximum U-Value	0.49	_
Space Heating Equipment Minimum AFUE	0.96	_
HRV Minimum Efficiency	75%	-
Domestic Hot Water Heater Minimum EF	0.8	_

INDIVIDUAL BCIN: 19669 MICHAEL O'ROURKE







Residential Foundation Thermal Load Calculator

Supplemental tool for CAN/CSA-F280

W	eather Sta	ation Description
Province:	Ontario	
Region:	Barrie	
	Site D	Pescription
Soil Conductivity:	Normal	conductivity: dry sand, loam, clay
Water Table:	Normal	(7-10 m, 23-33 ft)
	Foundation	on Dimensions
Floor Length (m):	15.2	
Floor Width (m):	5.2	
Exposed Perimeter (m):	26.2	
Wall Height (m):	2.7	
Depth Below Grade (m):	1.83	Insulation Configuration
Window Area (m²):	2.1	
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):		810

TYPE: TH-1 **LO#** 78868

Town of innisfii Certified Model 10/18/2018 11:35:45 AM kbayley

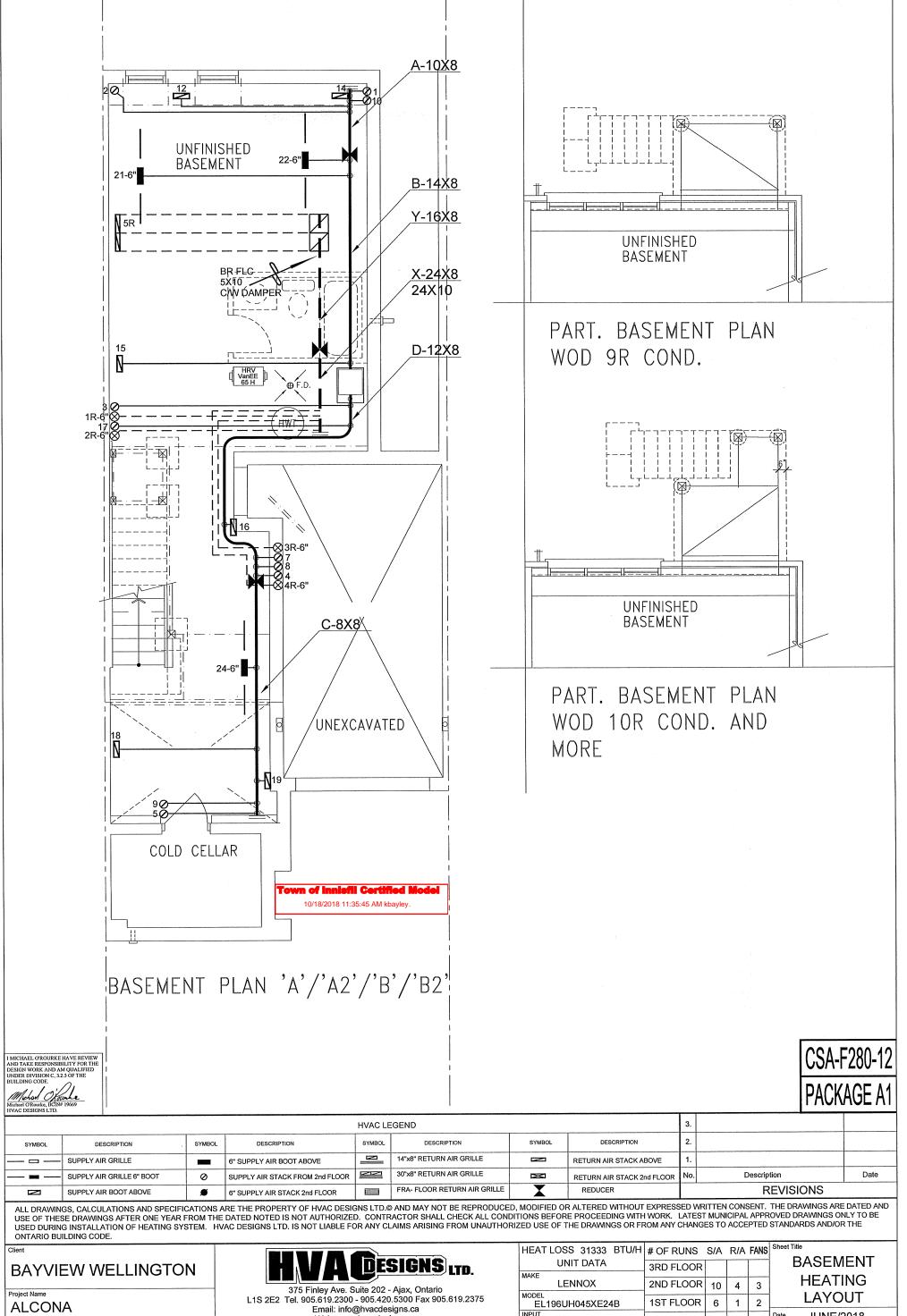


Air Infiltration Residential Load Calculator

Supplemental tool for CAN/CSA-F280

Weather Stati	on De	scrip	tion	****		
Province:	Onta					
Region:	Barr	ie				
Weather Station Location:	Ope	n flat t	errain,	grass		
Anemometer height (m):	10		•	•		
Local SI	nieldir	ng				
Building Site:	Subu	ırban,	forest			
Walls:	Heav	/y				
Flue:	Heav	'y				
Highest Ceiling Height (m):	6.71					
Building Co	nfigur	atior)			
Type:	Semi					
Number of Stories:	Two					
Foundation:	Full					
House Volume (m³):	604.6	5				
Air Leakage,	Venti	latio	n			
Air Tightness Type:	Prese	nt (19	61-) (3	.57 AC	H)	
Custom BDT Data:	ELA @	ELA @ 10 Pa. 806.0 cm ²				
	3.57				ACH @ 50 Pa	
Mechanical Ventilation (L/s):					Total Exhaust	
		30.0			30.0	
Flue	Size					
Flue #:	#1	#2	#3	#4		
Diameter (mm):	0	0	0	0		
Natural Infilt	ration	Rate	es			
Heating Air Leakage Rate (ACH/H):		().34	8		
Cooling Air Leakage Rate (ACH/H):		C	0.09	0		

TYPE: TH-1 **LO#** 78868



TH-1 1627 sqft

INNISFIL, 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.

	. ,	0.0	00	" 01 110110	0,, (1 477 4		
	U	NIT DA	ΓA	3RD FLOOR				
	MAKE							
		ENNOX		2ND FLOOR	10	4	3	
	MODEL EL196	JH045X	E24B	1ST FLOOR	6	1	2	
	INPUT	44	мвти/н	BASEMENT	3	1	0	Date
	OUTPUT		MBTU/H	ALL S/A DIFFU	SERS	4 "x10)"	Scale
		42		UNLESS NOTE				
_	COOLING		TONS	ON LAYOUT. A				
е		2.0		UNLESS NOTE	D OTI	HERW	ISE	

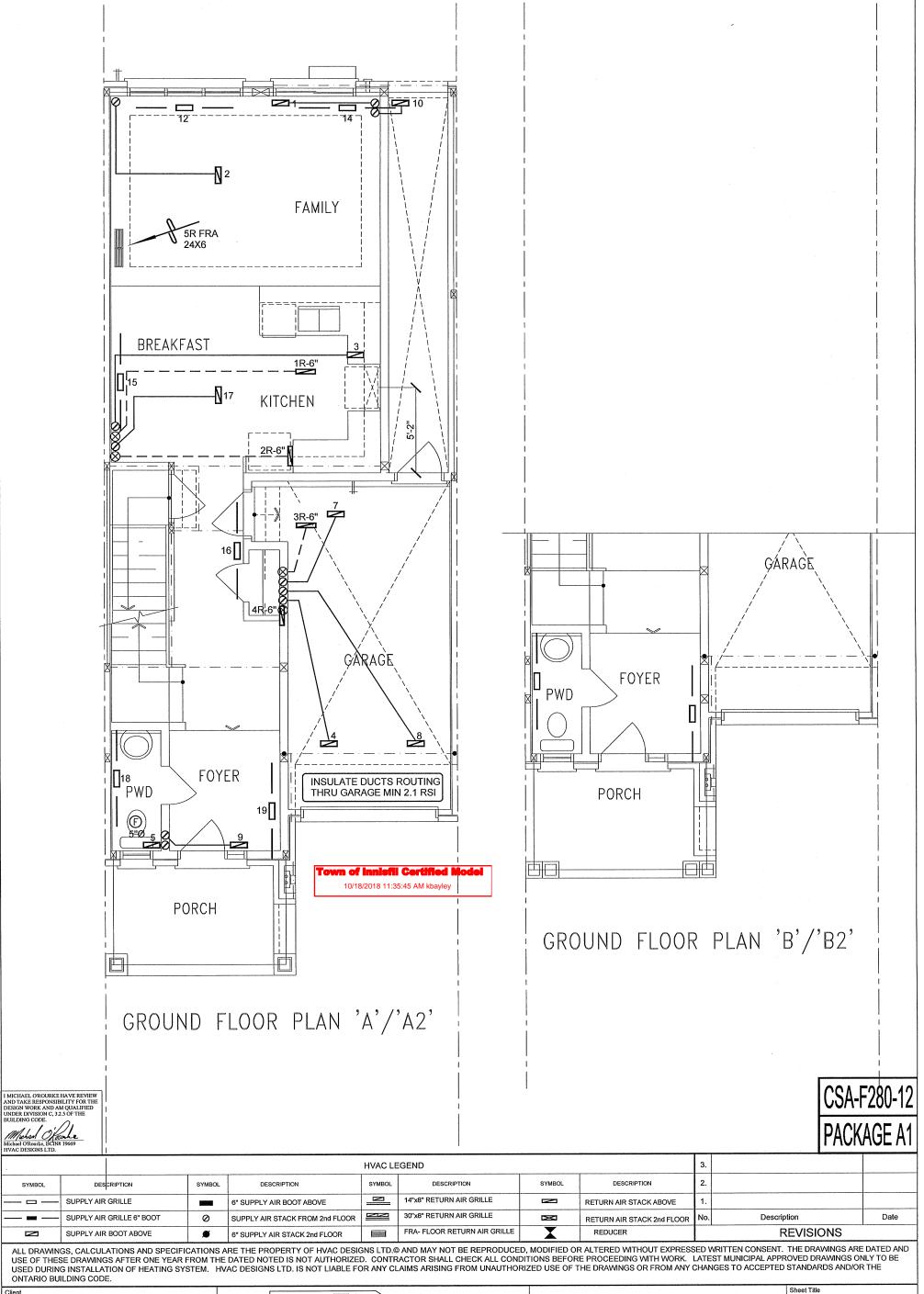
ON LAYOUT. UNDERCUT

DOORS 1" min. FOR R/A

FAN SPEED

800

JUNE/2018 3/16" = 1'-0" BCIN# 19669 78868 LO#



BAYVIEW WELLINGTON

Project Name **ALCONA** INNISFIL, ONTARIO

DESIGNS LTD.

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

Specializing in Residential Mechanical Design Services

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

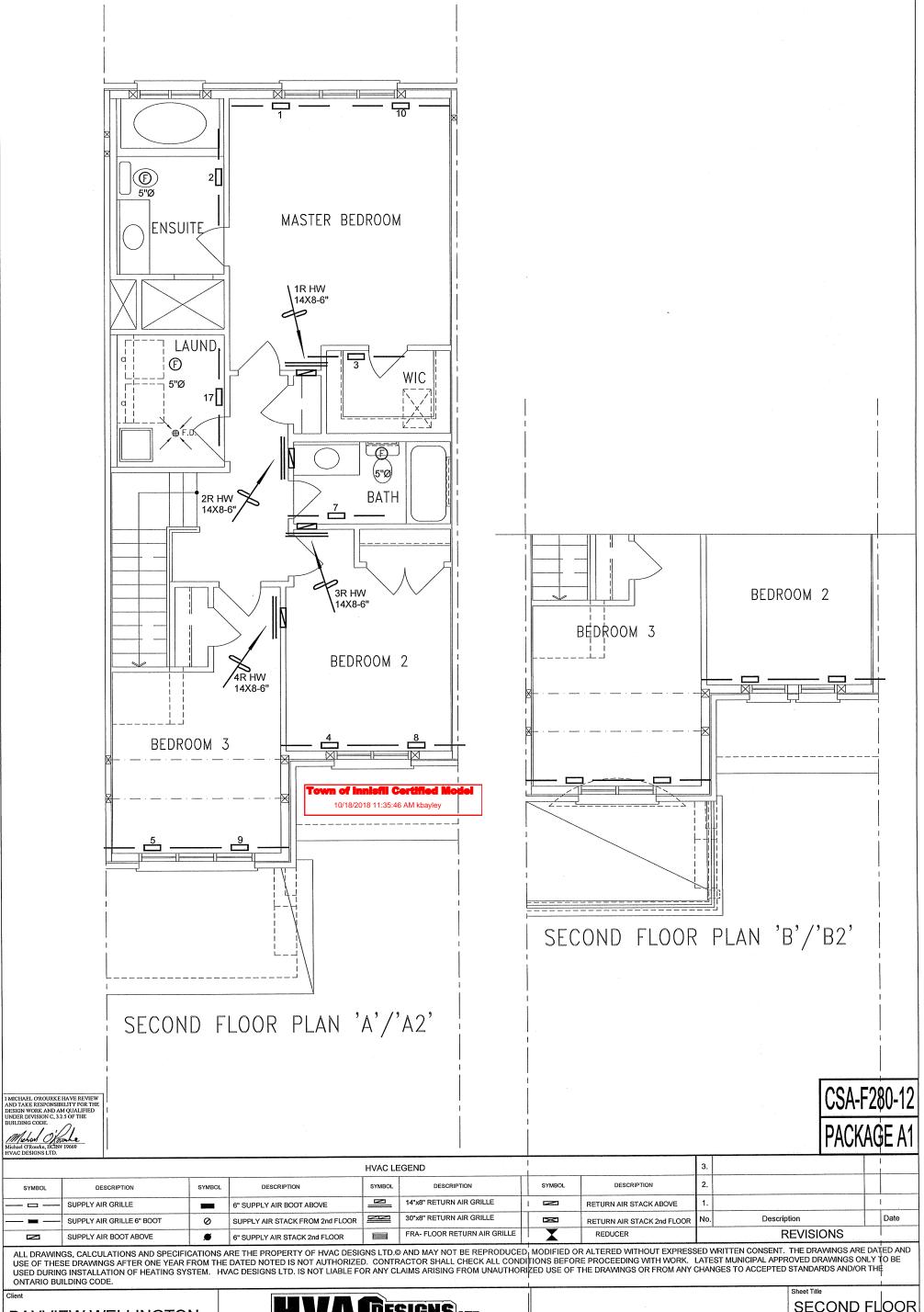
FIRST FLOOR **HEATING** LAYOUT

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

78868

TH-1

1627 sqft



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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 1627 sqft adequately insulated and be gas-proofed.

SECOND FLOOR **HEATING** LAYOUT

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

BCIN# 19669 LO# 78868

TH-1