### **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			ann bear con tale on green meet never as a process of the property	Unit no.	Lot/con.
Municipality	Postal code	Plan number/ other desc	cription	<u> </u>	
INNISFIL					
B. Individual who reviews and takes	responsibility fo	r design activities	1.00		Mark the Committee of t
Name		Firm			
MICHAEL O'ROURKE Street address		HVAC DESIGNS LTD.	Unit no.		II
375 FINLEY AVE			202		Lot/con. N/A
Municipality	Postal code	Province	E-mail		
AJAX	L1S 2E2	ONTARIO	info@hvacdes	igns.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 Tabl	le 3.5.2.1 OF Divis	sion C]
□ House	⊠ HVAC	_ House		Duilding Structur	
☐ Small Buildings	Building	g Services		Building Structur Plumbing – Hou:	se
☐ Large Buildings☐ Complex Buildings	☐ Detecti☐ Fire Pro	on, Lighting and Pow	/er ☐ [	Plumbing – All B	Buildings
Description of designer's work	<b>—</b> 1 110 110	Model:		On-site Sewage	Systems
HEAT LOSS / GAIN CALCULATIONS		iviodei.	117-4		
DUCT SIZING RESIDENTIAL MECHANICAL VENTILATIO	N DECICAL CLIBARA	NDV			
RESIDENTIAL MECHANICAL VENTILATION		Project:	ALCONA		
D. Declaration of Designer					
I MICHAEL O'ROURKE			declare tha	at (choose one as ar	onronriate).
(þr	int name)			(этгээг этгэ этг	, , , , , , , , , , , , , , , , , , ,
☐ I review and take responsibility for Division C, of the Building Code. classes/categories.	or the design work o I am qualified, and t	n behalf of a firm registere the firm is registered, in th	ed under subsec e	tion 3.2.4.of appropriate	
Individual BCIN: Firm BCIN:					
I review and take responsibility for designer" under subsection 3.2	r the design and am 2.5.of Di vision	n qualified in the appropria n C, of the Building Code.	ite category as a	n "other	
Individual BCIN:	19669				
Basis for exemption fr	om registration and	qualification:	O.B.C SENT	ENCE 3.2.4.1	(4)
☐ The design work is exempt Basis for exemption from registra	from the registration and qualificatio	on and qualification requiren:	ements of the Bu	ilding Code.	
I certify that:					
<ol> <li>The information contained</li> <li>I have submitted this applicate</li> </ol>	in this schedu tion with the knowle	le is true to the best of my dge and consent of the fin	knowledge. n.		
June 14, 2018			Michael	Offmhe	-
Date				Signature of Des	igner

<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.

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CSA-F280-12	SB-12 PACKAGE A1								-																						
	HEAT GAIN ∆T °F. 12														-									-							
WINTER NATURAL AIR CHANGE RATE 0.348	SUMMER NATURAL AIR CHANGE RATE 0.090																													-	*****
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CLG. HT.		10	67			3 4
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SUB TOTAL HTGAIN				1676	942	
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AIR CHANGE HEAT GAIN		241	•			
DUCTLOSS		<b>a</b>		2		P.
DUCT GAIN				-		
HEAT GAIN PEOPLE 240				0		0
			0	•	0	0
LILITE SOCIETIES		623			0	623
TOTAL		4362	334	2770 2653	942	9045
CIAC HI GAIN X 1.3 B 10/H		6288	943	982 1148	1315	1058
TOTAL HEAT GAIN BTU/H: 22455	TONS: 1.87	LOSS DUE TO VENTILATION LOAD BTU/H: 1429	JN LOAD BTU/H: 1429	STRUCTURAL HEAT LOSS: 28216	TOTAL COMBINED HEATLOSS BT	643

MICHAEL O'ROURKE

INDIVIDUAL BCIN: 19669

TOTAL COMBINED HEATLOSS BTU/H: 29643

STRUCTURAL HEAT LOSS: 28215

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SITE NAME: ALCONA BUILDER: BAYVIEW WELLINGTON	FM 800 35 28,215 FM 28.35	4		unless n	RUN# 1	111	_		DH. 1.65								IZE 3X10	NK	I WIN	ш 2 Z	ЭН.	AT	3H.	NG	RE	H.	E	Ŧ	RE	1, E		7F	¥
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TOTAL EFFECTIVE LH	213	236	242	268	150	<del></del>	<b>—</b>			· <del>-</del>		,	, ~-	· -	> ~	275								
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10/23/2018 3:25:07 PM kbayley

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TYPE: TH-4
SITE NAME: ALCONA

LO# 78872

#### RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

COMBUSTION APPLIANCES	9.32.3.1(1)	SUPPLEMENTAL VENTILATION CAPACITY 9.32.3.
a) V Direct vent (sealed combustion) only		Total Ventilation Capacity  148.4  SUPPLEMENTAL VENTILATION CAPACITY  9.32.3.
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 Capacity 84.8 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 Approve
Forced Air Non Forced Air		PRINCIPAL EXHAUST HEAT LOSS CALCULATION
Electric Space Heat		CFM ΔT *F FACTOR % LOSS 63.6 CFM X 83 F X 1.08 X 0.25
Include opace rest		SUPPLEMENTAL FANS NUTONE
HOUSE TYPE	0.00.4(0)	Location Model cfm HVI Sones
HOUSE TIFE	9.32.1(2)	ENS QTXEN050C 50 ✓ 0.3  BATH QTXEN050C 50 ✓ 0.3
I Type a) or b) appliance only, no solid fuel		BATH QIXEN050C 50 V 0.3
II Type I except with solid fuel (including fireplaces)		PWD QTXEN050C 50 V 0.3
III Any Type c) appliance		HEAT RECOVERY VENTILATOR 9.32.3.11
III Any Type c) appliance		Model:         VANEE 65H           155         cfm high         64         cfm low
IV Type I, or II with electric space heat		155 cfm high64 cfm low
Other: Type I, II or IV no forced air		75 % Sensible Efficiency
The state of the s		LOCATION OF INSTALLATION
SYSTEM DESIGN OPTIONS	O.N.H.W.P.	EGGY HOW OF ING INCENTION
1 Exhaust only/Forced Air System		Lot: Concession
Exhaust only in order All System		Township Plan:
2 HRV with Ducting/Forced Air System		•
3 HRV Simplified/connected to forced air system		Address
4 HRV with Ducting/non forced air system		Roll # Building Permit #
Part 6 Design		BUILDER: BAYVIEW WELLINGTON
		Name:
TOTAL VENTILATION CAPACITY	9.32.3.3(1)	Address:
Basement + Master Bedroom 2 @ 21.2 cfm 42.4	cfm	City:
Other Bedrooms <u>2</u> @ 10.6 cfm <u>21.2</u>	cfm	Telephone #: Fax #:
Kitchen & Bathrooms <u>4</u> @ 10.6 cfm <u>42.4</u>	cfm	INSTALLING CONTRACTOR
Other Rooms <u>4</u> @ 10.6 cfm <u>42.4</u>	cfm	Name:
Table 9.32.3.A. TOTAL <u>148.4</u>	cfm	Address:
		City:
PRINCIPAL VENTILATION CAPACITY REQUIRED	.32.3.4.(1)	Telephone #: Fax #:
1 Bedroom 31.8	cfm	
2 Bedroom 47.7	cfm	DESIGNER CERTIFICATION I hereby certify that this ventilation system has been designed
3 Bedroom 63.6	cfm	in accordance with the Ontario Building Code.  Name: HVAC Designs Ltd.
4 Bedroom 79.5	cfm	Signature: Machael Officente.
5 Bedroom 95.4	cfm	HRAI # 001820
TOTAL 63.6 cfm		Date: June-18
	FIED IN THE APPR	ROPRIATE CATEGORY AS AN "OTHER DESIGNER" UNDER DIVISION C, 3.2.5 OF THE BUILDING CODE.



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

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

MODEL: TH-4 SFQT: 1698	<b>LO#</b> 78872	BUILDER: BAYVIEW WELLINGT SITE: ALCONA	ON
DESIGN ASSUMPTIONS			
HEATING OUTDOOR DESIGN TEMP. INDOOR DESIGN TEMP. BUILDING DATA	°F -11 72	COOLING OUTDOOR DESIGN TEMP. INDOOR DESIGN TEMP. (MAX 75°F)	°F 84 72
ATTACHMENT:	ATTACHED	# OF STORIES (+BASEMENT):	3
FRONT FACES:	EAST	ASSUMED (Y/N):	Y
AIR CHANGES PER HOUR:	3.57	ASSUMED (Y/N):	Y
AIR TIGHTNESS CATEGORY:	AVERAGE	ASSUMED (Y/N):	Υ
WIND EXPOSURE:	SHELTERED	ASSUMED (Y/N):	Υ
HOUSE VOLUME (ft³):	23180.0	ASSUMED (Y/N):	Y
INTERNAL SHADING:	BLINDS/CURTAINS	ASSUMED OCCUPANTS:	4
INTERIOR LIGHTING LOAD (Btu/	/h/ft²): 1.75	DC BRUSHLESS MOTOR (Y/N):	Υ
FOUNDATION CONFIGURATION	BCIN_1	DEPTH BELOW GRADE:	6.0 ft
LENGTH: 48.0 ft	WIDTH: 21.0 ft	EXPOSED PERIMETER:	66.0 ft

2012 OBC - COMPLIANCE PACKAGE		
Common and	Compliance	Package
Component	A	1
	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

We	eather Sta	ation Description
Province:	Ontario	
Region:	Barrie	
	Site D	Description
Soil Conductivity:	Normal	conductivity: dry sand, loam, clay
Water Table:	Normal	(7-10 m, 23-33 ft)
	Foundatio	on Dimensions
Floor Length (m):	14.6	
Floor Width (m):	6.4	
Exposed Perimeter (m):	20.1	
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):		647

**TYPE:** TH-4 **LO#** 78872

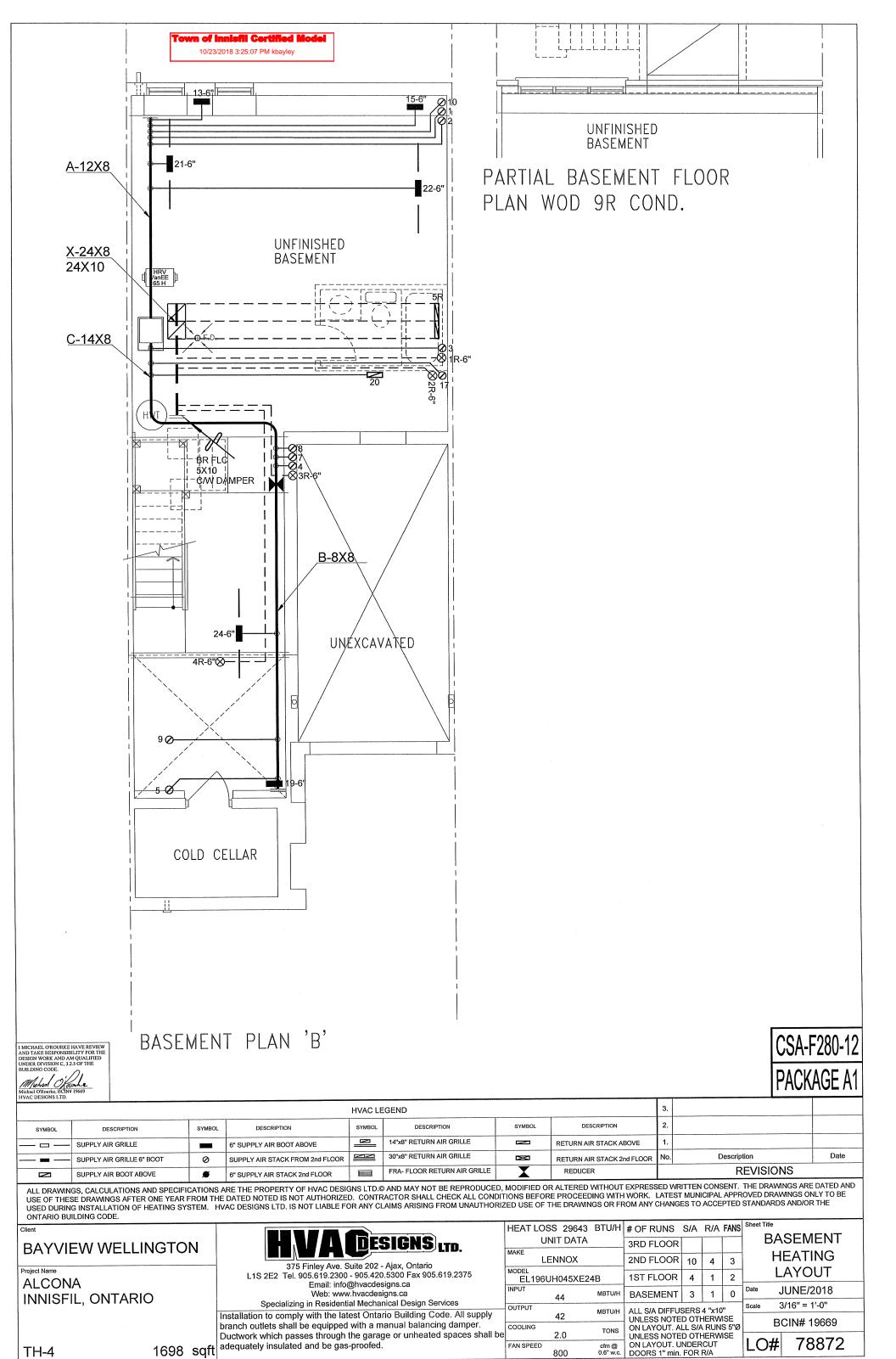
HVAC Designs Ltd. 375 Finley Ave, Suite 202 Ajax ON, L1S 2E2 905-619-2300

### **Air Infiltration Residential Load Calculator**

Supplemental tool for CAN/CSA-F280

Weather St	ation De	script	ion		
Province:	Onta	rio			
Region:	Barr	ie			
Weather Station Location:	Ope	n flat te	errain,	grass	
Anemometer height (m):	10				
Local	Shieldir	ng			
Building Site:	Subu	ırban, f	orest		
Walls:	Heav	<b>′</b> y			
Flue:	Heav	'y			
Highest Ceiling Height (m):	6.71				
Building	Configur	ation			
Type:	Semi				
Number of Stories:	Two				
Foundation:	Full				
House Volume (m³):	656.4	1			
Air Leaka	ge/Venti	lation	า		
Air Tightness Type:	Prese	ent (19	61-) (3.	.57 ACI	н)
Custom BDT Data:	ELA (	@ 10 Pa	Э.		875.0 cm <sup>2</sup>
	3.57				ACH @ 50 Pa
Mechanical Ventilation (L/s):	Т	otal Sup	ply		Total Exhaust
		30.0			30.0
Flo	ue Size				
Flue #:	#1	#2	#3	#4	
Diameter (mm):	0	0	0	0	
Natural In	filtratior	Rate	!S		
Heating Air Leakage Rate (ACH/I	H):	C	.34	8	
Cooling Air Leakage Rate (ACH/	H):	C	.09	0	

**TYPE:** TH-4 **LO#** 78872



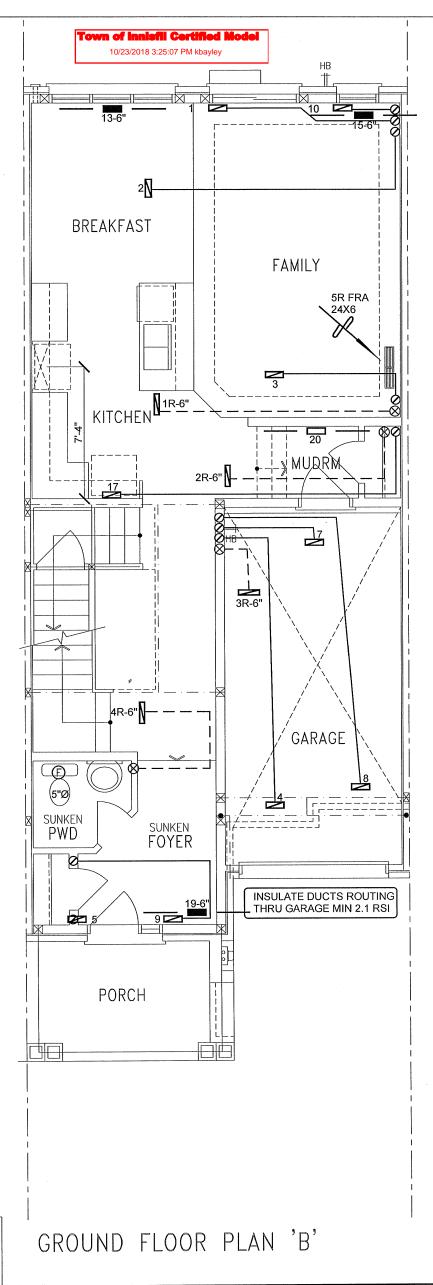
FAN SPEED

800

1698 sqft

TH-4

cfm @ 0.6" w.c.



CSA-F280-12 PACKAGE A1

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

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### **BAYVIEW WELLINGTON**

Project Name **ALCONA** INNISFIL, ONTARIO

# DESIGNS LTD.

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

Specializing in Residential Mechanical Design Services

Installation to comply with the latest Ontario Building Code. All supply branch outlets shall be equipped with a manual balancing damper.

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

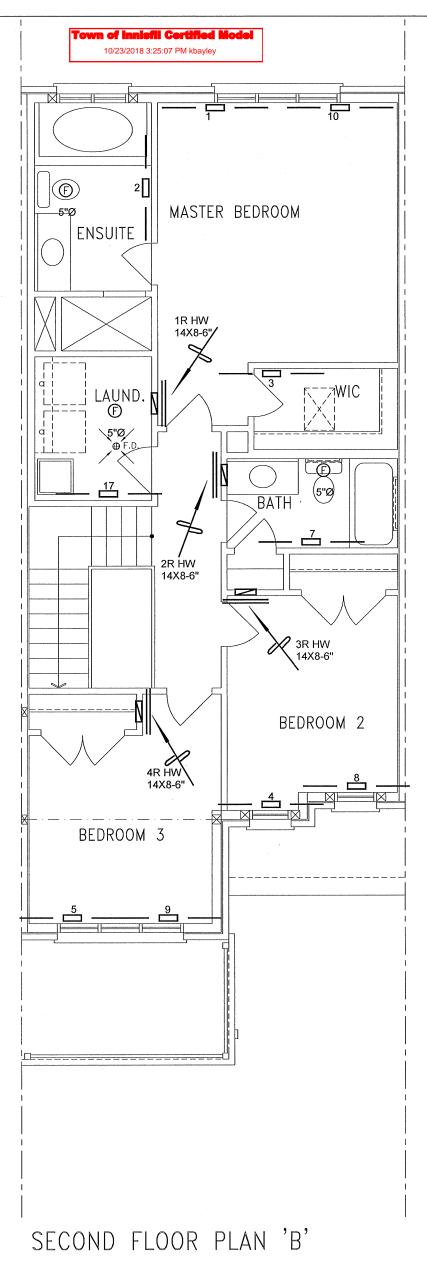
FIRST FLOOR

**HEATING** LAYOUT

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

78872

TH-4



CSA-F280-12

HVAC LEGEND DESCRIPTION DESCRIPTION SYMBOL SYMBOL SYMBOL SYMBOL SUPPLY AIR GRILLE Ø 14"x8" RETURN AIR GRILLE 6" SUPPLY AIR BOOT ABOVE RETURN AIR STACK ABOVE 30"x8" RETURN AIR GRILLE SUPPLY AIR GRILLE 6" BOOT 0 SUPPLY AIR STACK FROM 2nd FLOOR  $\sim$ RETURN AIR STACK 2nd FLOOR SUPPLY AIR BOOT ABOVE FRA- FLOOR RETURN AIR GRILLE **REVISIONS** ø 6" SUPPLY AIR STACK 2nd FLOOR 

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I MICHAEL O'ROURKE HAVE REVIEW AND TAKE RESPONSIBILITY FOR THE DESIGN WORK AND AM QUALIFIED UNDER DIVISION C, 3.2.5 OF THE

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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 1698 sqft adequately insulated and be gas-proofed.

SECOND FLOOR **HEATING** LAYOUT

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

LO# 78872

TH-4