

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		Unit no.	Lot/con.
Municipality INNISFIL	Postal code	Plan number/ other description	
B. Individual who reviews and takes responsibility for design activities			
Name MICHAEL O'ROURKE		Firm HVAC DESIGNS LTD.	
Street address 375 FINLEY AVE		Unit no. 202	Lot/con. N/A
Municipality AJAX	Postal code L1S 2E2	Province ONTARIO	E-mail info@hvacdsgns.ca
Telephone number (905) 619-2300	Fax number (905) 619-2375	Cell number ()	
C. Design activities undertaken by individual identified in Section B. [Building Code Table 3.5.2.1 OF Division C]			
☐ House ☐ Small Buildings ☐ Large Buildings ☐ Complex Buildings		☒ HVAC – House ☐ Building Services ☐ Detection, Lighting and Power ☐ Fire Protection	
		☐ Building Structural ☐ Plumbing – House ☐ Plumbing – All Buildings ☐ On-site Sewage Systems	
Description of designer's work HEAT LOSS / GAIN CALCULATIONS DUCT SIZING RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY RESIDENTIAL SYSTEM DESIGN per CSA-F280-12		Model: 32-2-10 Project: ALCONA	
D. Declaration of Designer			
I <u>MICHAEL O'ROURKE</u> (print name)		declare that (choose one as appropriate):	
☐ I review and take responsibility for the design work on behalf of a firm registered under subsection 3.2.4. of Division C, of the Building Code. I am qualified, and the firm is registered, in the appropriate classes/categories. Individual BCIN: _____ Firm BCIN: _____			
☒ I review and take responsibility for the design and am qualified in the appropriate category as an "other designer" under subsection 3.2.5. of Division C, of the Building Code. Individual BCIN: <u>19669</u> Basis for exemption from registration and qualification: <u>O.B.C SENTENCE 3.2.4.1 (4)</u>			
☐ The design work is exempt from the registration and qualification requirements of the Building Code. Basis for exemption from registration and qualification: _____			
I certify that:			
1. The information contained in this schedule is true to the best of my knowledge. 2. I have submitted this application with the knowledge and consent of the firm.			
June 21, 2017 Date		 Signature of Designer	

NOTE:

- 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.
- 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.

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

SITE NAME: ALCONA										DATE: Jun-17		WINTER NATURAL AIR CHANGE RATE		HEAT LOSS ΔT °F		CSA-F280-12	
BUILDER: BAYVIEW WELLINGTON										LO# 74575		SUMMER NATURAL AIR CHANGE RATE		HEAT GAIN ΔT °F		SB-12 PACKAGE A1	
TYPE: 32-2-10										GFA: 2135		BATH					
ROOM USE										BED-3		BED-4					
EXP. WALL										35		17					
CLG. HT.										10		9					
FACTORS										LOSS GAIN		LOSS GAIN					
GRS.WALL AREA										333		153		72			
GLAZING										LOSS GAIN		LOSS GAIN		LOSS GAIN			
NORTH										0		0		0			
EAST										0		0		0			
SOUTH										28		652		7		163 173	
WEST										0		0		0			
SKYL.T.										0		0		0			
DOORS										0		0		0			
NET EXPOSED WALL										200		125		65		318 47	
NET EXPOSED BSMT WALL ABOVE GR										977		611		90			
EXPOSED CLG										174		263		108			
NO ATTIC EXPOSED CLG										30		0		0			
EXPOSED FLOOR										154		0		0			
BASEMENT/CRAWL HEAT LOSS										0		0		0			
SLAB ON GRADE HEAT LOSS										0		0		0			
SUBTOTAL HT LOSS										2324		1526		660			
SUB TOTAL HT GAIN										1474		890		294			
LEVEL FACTOR / MULTIPLIER										0.20		0.20		0.20			
AIR CHANGE HEAT LOSS										575		377		163			
AIR CHANGE HEAT GAIN										105		63		21			
DUCT LOSS										0		0		0			
DUCT GAIN										234		0		0			
HEAT GAIN PEOPLE										1		240		0			
HEAT GAIN APPLIANCES/LIGHTS										518		518		0			
TOTAL HT LOSS BTU/H										3188		1903		824			
TOTAL HT GAIN x 1.3 BTU/H										3354		2225		409			

ROOM USE										WIR		MUD				BAS	
EXP. WALL										4		16				150	
CLG. HT.										10		10				9	
FACTORS										LOSS GAIN		LOSS GAIN				LOSS GAIN	
GRS.WALL AREA										63		160				1116	
GLAZING										LOSS GAIN		LOSS GAIN				LOSS	
NORTH										0		0				6	
EAST										0		0				140 95	
SOUTH										0		6				0	
WEST										0		0				0	
SKYL.T.										0		0				0	
DOORS										0		0				0	
NET EXPOSED WALL										40		20				553 81	
NET EXPOSED BSMT WALL ABOVE GR										195		143				20	
EXPOSED CLG										29		899				0	
NO ATTIC EXPOSED CLG										0		0				0	
EXPOSED FLOOR										0		0				0	
BASEMENT/CRAWL HEAT LOSS										0		0				0	
SLAB ON GRADE HEAT LOSS										0		0				0	
SUBTOTAL HT LOSS										195		1237				5186	
SUB TOTAL HT GAIN										29		513				6800 311	
LEVEL FACTOR / MULTIPLIER										0.30		0.30				0.50	
AIR CHANGE HEAT LOSS										73		460				7150	
AIR CHANGE HEAT GAIN										2		13				56	
DUCT LOSS										0		0				0	
DUCT GAIN										0		0				0	
HEAT GAIN PEOPLE										0		0				0	
HEAT GAIN APPLIANCES/LIGHTS										268		518				518	
TOTAL HT LOSS BTU/H										268		1697				13951	
TOTAL HT GAIN x 1.3 BTU/H										40		926				1150	

SITE NAME: ALCONA

BUILDER: BAYVIEW WELLINGTON

DATE: Jun-17

GFA: 2135 LO# 74575

TYPE: 32-2-10

furnace pressure 0.6
furnace filter 0.05
a/c coil pressure 0.2
available pressure for s/a & r/a 0.35
plenum pressure s/a 0.18
max s/a dif press. loss 0.02
min adjusted pressure s/a 0.16

HEATING CFM 995 COOLING CFM 995
TOTAL HEAT GAIN 27,668
AIR FLOW RATE CFM 35.96

ARUE = 96 %
INPUT (BTU/H) = 66,000
OUTPUT (BTU/H) = 64,000
DESIGN CFM = 995
CH-M @ 8" E.S.P.

RUN COUNT	4th	3rd	2nd	1st	Bas
S/A	0	0	11	9	4
R/A	0	0	4	2	1

All S/A diffusers 4"x10" unless noted otherwise on layout.

All S/A runs 5'Ø unless noted otherwise on layout.

RUN #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
ROOM NAME	MBR	ENS	WIC	BED-2	BED-3	BED-4	BATH	BED-2	BED-3	MBR	WIC-2	GRT	GRT	KIT	KIT	KIT	LAUN	W/R	FOY	MUD	BAS	BAS	BAS	BAS
RM LOSS MBH	1.34	1.72	0.50	1.59	1.58	1.90	0.82	1.59	1.58	1.34	1.11	1.98	1.98	2.04	2.04	2.04	0.83	0.27	2.67	1.70	3.81	3.81	3.81	3.81
CFM PER RUN HEAT	29	37	11	35	34	41	18	35	34	29	24	43	44	44	44	44	18	6	58	37	83	83	83	83
RM GAIN MBH	1.67	1.03	0.13	1.67	1.68	2.22	0.41	1.67	1.68	1.67	0.80	1.34	1.34	1.99	1.99	1.99	0.94	0.04	0.71	0.93	0.44	0.44	0.44	0.44
CFM PER RUN COOLING	60	37	5	60	60	80	15	60	60	60	29	48	48	72	72	72	34	1	26	33	16	16	16	16
ADJUSTED PRESSURE	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.16
ACTUAL DUCT LGH	62	81	36	37	54	41	58	42	63	56	41	24	33	33	37	35	30	26	31	19	38	28	25	34
EQUIVALENT LENGTH	140	150	120	190	120	140	160	180	140	150	120	130	140	110	120	120	170	110	90	140	110	150	120	120
TOTAL EFFECTIVE LENGTH	202	231	156	227	174	181	218	222	203	206	161	154	173	143	157	125	200	136	121	159	128	138	175	154
ADJUSTED PRESSURE	0.09	0.07	0.11	0.08	0.1	0.1	0.08	0.08	0.08	0.08	0.11	0.11	0.1	0.12	0.11	0.11	0.09	0.13	0.14	0.11	0.13	0.12	0.09	0.11
ROUND DUCT SIZE	5	4	4	5	5	5	5	5	5	5	4	4	4	5	5	5	4	4	4	4	5	5	5	5
HEATING VELOCITY (ft/min)	213	424	126	257	250	301	207	257	250	213	275	493	493	323	323	323	323	69	665	424	609	609	609	609
COOLING VELOCITY (ft/min)	441	424	57	441	441	587	172	441	441	441	333	551	529	529	529	529	390	390	298	379	117	117	117	117
OUTLET GRILL SIZE	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10
TRUNK	B	B	C	C	D	C	D	C	D	B	D	C	D	A	B	B	C	C	D	C	A	A	D	D

RUN #	ROOM NAME	RM LOSS MBH	CFM PER RUN HEAT	RM GAIN MBH	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
1	TRUNK A	210	7.1	6	8	630	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	TRUNK B	183	7.7	8	8	412	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	TRUNK C	619	12.1	18	8	619	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	TRUNK D	377	9.7	12	8	566	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	TRUNK E	996	14.5	24	8	747	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	TRUNK F	0	0	0	8	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

SUPPLY AIR TRUNK SIZE	TRUNK CFM	STATIC PRESS.	ROUND DUCT	RECT DUCT	VELOCITY (ft/min)	TRUNK CFM	STATIC PRESS.	ROUND DUCT	RECT DUCT	VELOCITY (ft/min)	RETURN AIR TRUNK SIZE	TRUNK CFM	STATIC PRESS.	ROUND DUCT	RECT DUCT	VELOCITY (ft/min)
TRUNK A	210	0.12	7.1	6	8	630	0.00	0.00	0.00	0.00	TRUNK O	0	0.07	0	0	8
TRUNK B	183	0.07	7.7	8	8	412	0.00	0.00	0.00	0.00	TRUNK P	0	0.07	0	0	8
TRUNK C	619	0.07	12.1	18	8	619	0.00	0.00	0.00	0.00	TRUNK Q	0	0.07	0	0	8
TRUNK D	377	0.08	9.7	12	8	566	0.00	0.00	0.00	0.00	TRUNK R	0	0.07	0	0	8
TRUNK E	996	0.07	14.5	24	8	747	0.00	0.00	0.00	0.00	TRUNK S	0	0.07	0	0	8
TRUNK F	0	0.00	0	0	8	0	0.00	0.00	0.00	0.00	TRUNK T	0	0.07	0	0	8
											TRUNK U	0	0.07	0	0	8
											TRUNK V	0	0.07	0	0	8
											TRUNK W	0	0.07	0	0	8
											TRUNK X	995	0.07	14.5	26	8
											TRUNK Y	350	0.07	9.8	12	8
											TRUNK Z	0	0.07	0	0	8
											DROP	995	0.07	14.5	24	10

HEAT LOSS AND GAIN SUMMARY SHEET**MODEL:** 32-2-10**BUILDER:** BAYVIEW WELLINGTON**SFQT:** 2135**LO#** 74575**SITE:** ALCONA**DESIGN ASSUMPTIONS**

HEATING	°F	COOLING	°F
OUTDOOR DESIGN TEMP.	-11	OUTDOOR DESIGN TEMP.	84
INDOOR DESIGN TEMP.	72	INDOOR DESIGN TEMP. (MAX 75°F)	72

BUILDING DATA

ATTACHMENT:	DETACHED	# 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):	Y
WIND EXPOSURE:	SHELTERED	ASSUMED (Y/N):	Y
HOUSE VOLUME (ft³):	28935.0	ASSUMED (Y/N):	Y
INTERNAL SHADING:	BLINDS/CURTAINS	ASSUMED OCCUPANTS:	5
INTERIOR LIGHTING LOAD (Btu/h/ft²):	1.50	DC BRUSHLESS MOTOR (Y/N):	Y
FOUNDATION CONFIGURATION	BCIN_1	DEPTH BELOW GRADE:	6.0 ft
LENGTH: 48.0 ft	WIDTH: 27.0 ft	EXPOSED PERIMETER:	150.0 ft

2012 OBC - COMPLIANCE PACKAGE**Component****Compliance Package****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	29.8
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	-

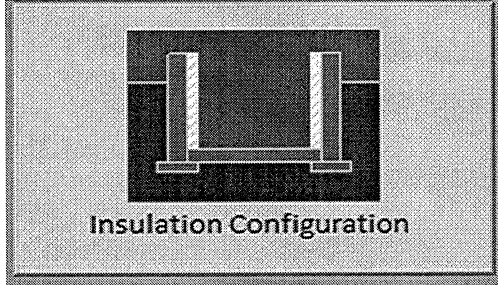
INDIVIDUAL BCIN: 19669

MICHAEL O'ROURKE



Residential Foundation Thermal Load Calculator

Supplemental tool for CAN/CSA-F280

Weather Station Description		
Province:	Ontario	
Region:	Barrie	
Site Description		
Soil Conductivity:	Normal conductivity: dry sand, loam, clay	
Water Table:	Normal (7-10 m, 23-33 ft)	
Foundation Dimensions		
Floor Length (m):	14.6	 Insulation Configuration
Floor Width (m):	8.2	
Exposed Perimeter (m):	0.0	
Wall Height (m):	2.7	
Depth Below Grade (m):	1.83	
Window Area (m ²):	2.7	
Door Area (m ²):	1.9	
Radiant Slab		
Heated Fraction of the Slab:	0	
Fluid Temperature (°C):	33	
Design Months		
Heating Month	1	
Foundation Loads		
Heating Load (Watts):		1519

TYPE: 32-2-10
LO# 74575

TYPE: 32-2-10
SITE NAME: ALCONA

LO # 74575

RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

COMBUSTION APPLIANCES		9.32.3.1(1)
a)	☒ Direct vent (sealed combustion) only	
b)	☐ Positive venting induced draft (except fireplaces)	
c)	☐ Natural draft, B-vent or induced draft gas fireplace	
d)	☐ Solid Fuel (including fireplaces)	
e)	☐ No Combustion Appliances	

HEATING SYSTEM	
☒ Forced Air	☐ Non Forced Air
☐ Electric Space Heat	

HOUSE TYPE		9.32.1(2)
☒ I	Type a) or b) appliance only, no solid fuel	
☐ II	Type I except with solid fuel (including fireplaces)	
☐ III	Any Type c) appliance	
☐ IV	Type I, or II with electric space heat	
☐	Other: Type I, II or IV no forced air	

SYSTEM DESIGN OPTIONS		O.N.H.W.P.
☐	1 Exhaust only/Forced Air System	
☐	2 HRV with Ducting/Forced Air System	
☒	3 HRV Simplified/connected to forced air system	
☐	4 HRV with Ducting/non forced air system	
☐	Part 6 Design	

TOTAL VENTILATION CAPACITY		9.32.3.3(1)
Basement + Master Bedroom	2 @ 21.2 cfm	42.4 cfm
Other Bedrooms	3 @ 10.6 cfm	31.8 cfm
Kitchen & Bathrooms	4 @ 10.6 cfm	42.4 cfm
Other Rooms	5 @ 10.6 cfm	53.0 cfm
Table 9.32.3.A.	TOTAL	169.6 cfm

PRINCIPAL VENTILATION CAPACITY REQUIRED		9.32.3.4.(1)
1 Bedroom	31.8	cfm
2 Bedroom	47.7	cfm
3 Bedroom	63.6	cfm
4 Bedroom	79.5	cfm
5 Bedroom	95.4	cfm
TOTAL	79.5	cfm

SUPPLEMENTAL VENTILATION CAPACITY		9.32.3.5.
Total Ventilation Capacity	169.6	cfm
Less Principal Ventil. Capacity	139	cfm
Required Supplemental Capacity	30.6	cfm

PRINCIPAL EXHAUST FAN CAPACITY	
Model:	VANEE 60H-V+
Location:	BSMT
139.0 cfm	3.0 sones
☒	HVI Approved

PRINCIPAL EXHAUST HEAT LOSS CALCULATION				
CFM	ΔT °F	FACTOR	% LOSS	
139.0 CFM	X 83 F	X 1.08	X	0.25

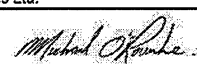
SUPPLEMENTAL FANS		NUTONE		
Location	Model	cfm	HVI	Sones
ENS	QTXEN050C	50	☒	0.3
BATH	QTXEN050C	50	☒	0.3
W/R	QTXEN050C	50	☒	0.3

HEAT RECOVERY VENTILATOR		9.32.3.11.
Model:	VANEE 60H-V+	
139 cfm high	50 cfm low	
75 % Sensible Efficiency	☒	HVI Approved
@ 32 deg F (0 deg C)		

LOCATION OF INSTALLATION	
Lot:	Concession
Township	Plan:
Address	
Roll #	Building Permit #

BUILDER:		BAYVIEW WELLINGTON
Name:		
Address:		
City:		
Telephone #:	Fax #:	

INSTALLING CONTRACTOR	
Name:	
Address:	
City:	
Telephone #:	Fax #:

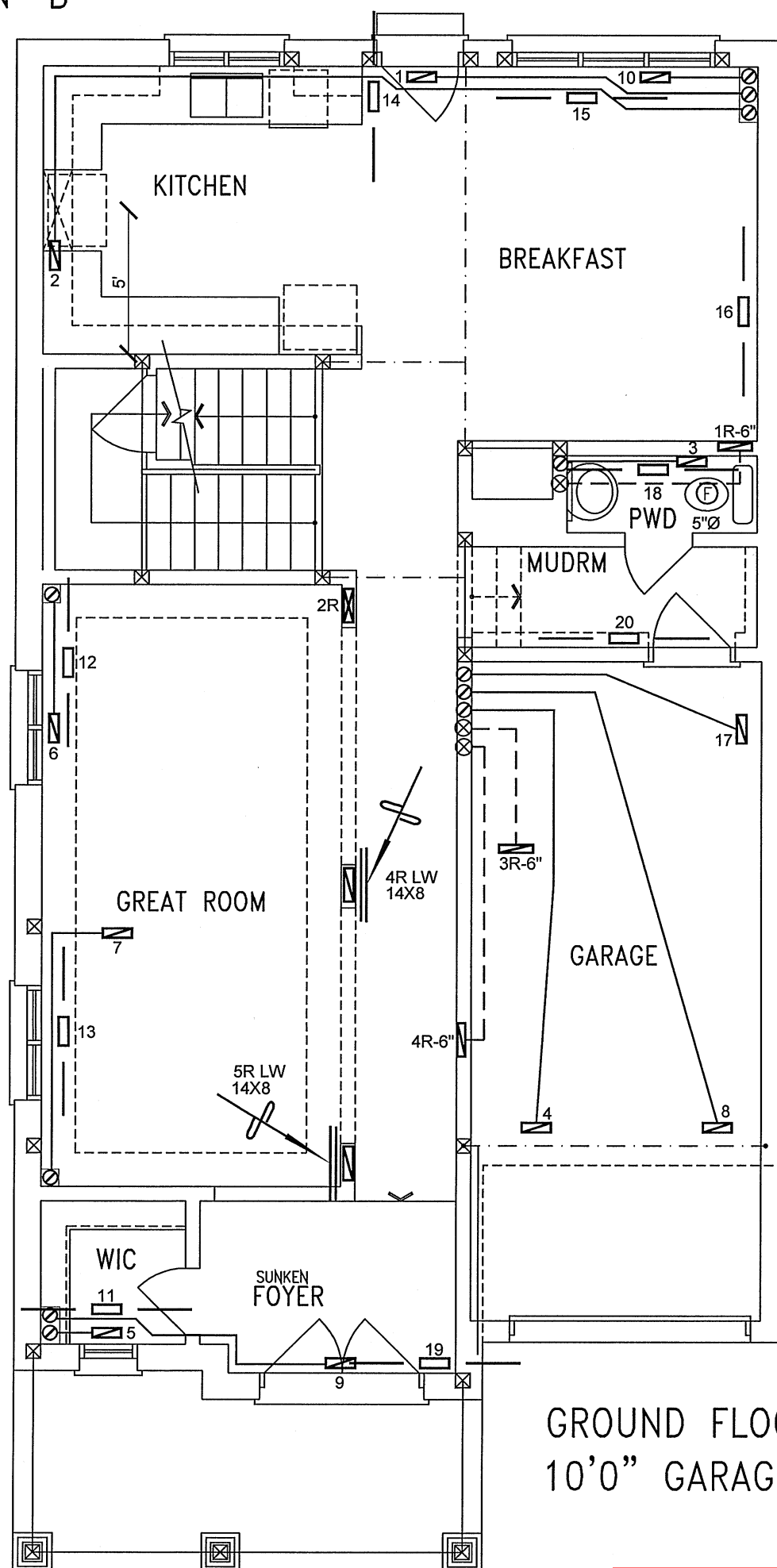
DESIGNER CERTIFICATION	
I hereby certify that this ventilation system has been designed in accordance with the Ontario Building Code.	
Name:	HVAC Designs Ltd.
Signature:	
HRAI #	001820
Date:	June-17

Air Infiltration Residential Load Calculator

Supplemental tool for CAN/CSA-F280

Weather Station Description				
Province:	Ontario			
Region:	Barrie			
Weather Station Location:	Open flat terrain, grass			
Anemometer height (m):	10			
Local Shielding				
Building Site:	Suburban, forest			
Walls:	Heavy			
Flue:	Heavy			
Highest Ceiling Height (m):	6.71			
Building Configuration				
Type:	Detached			
Number of Stories:	Two			
Foundation:	Full			
House Volume (m ³):	819.3			
Air Leakage/Ventilation				
Air Tightness Type:	Present (1961-) (3.57 ACH)			
Custom BDT Data:	ELA @ 10 Pa. 3.57	1092.2 cm ² ACH @ 50 Pa		
Mechanical Ventilation (L/s):	Total Supply 65.6	Total Exhaust 65.6		
Flue Size				
Flue #:	#1	#2	#3	#4
Diameter (mm):	0	0	0	0
Natural Infiltration Rates				
Heating Air Leakage Rate (ACH/H):	0.332			
Cooling Air Leakage Rate (ACH/H):	0.087			

TYPE: 32-2-10
LO# 74575



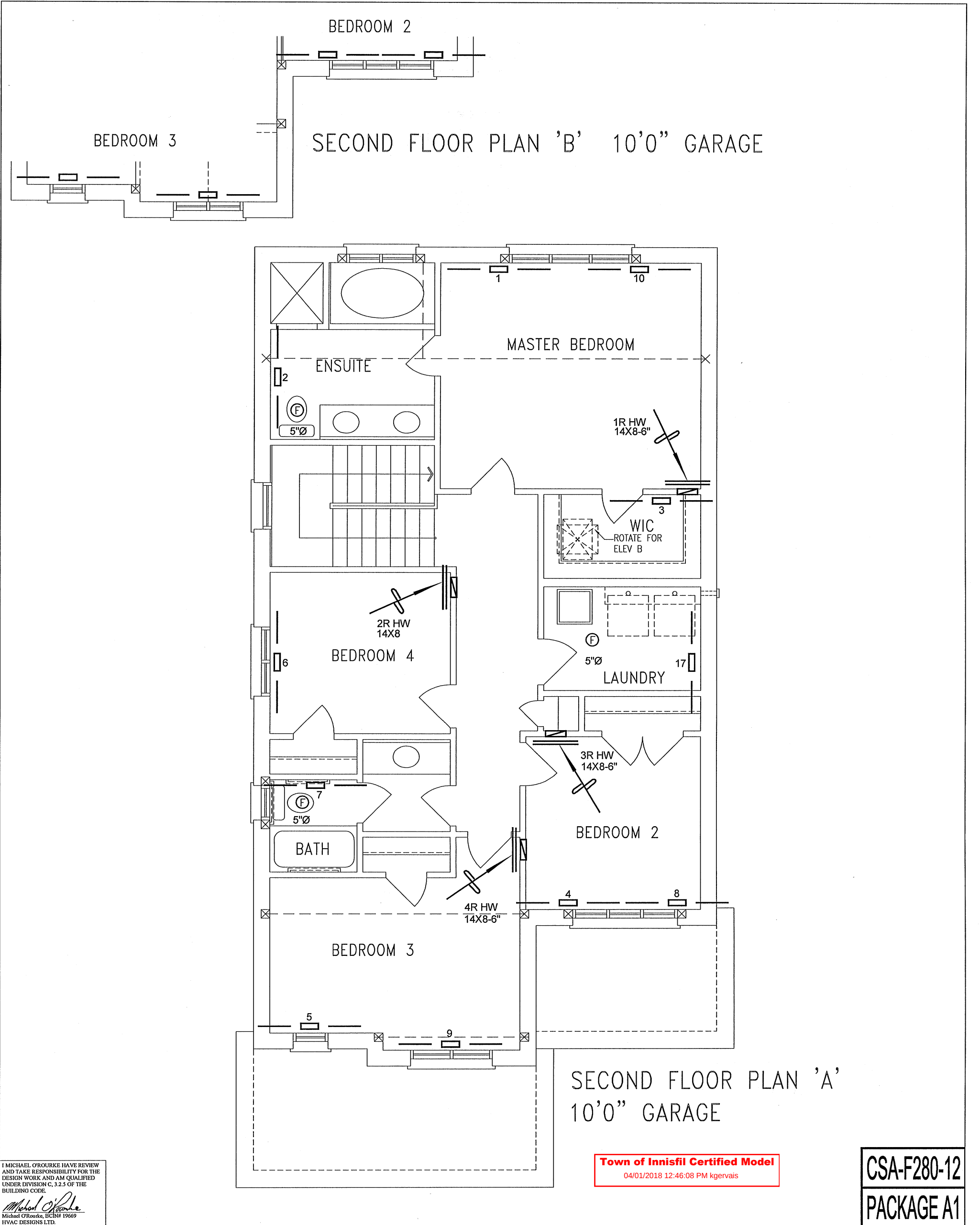
GROUND FLOOR PLAN 'A'
10'0" GARAGE

04/01/2018 12:46:05 PM kgervais

PACKAGE A1

ALL DRAWINGS, CALCULATIONS AND SPECIFICATIONS ARE THE PROPERTY OF HVAC DESIGNS LTD.© AND MAY NOT BE REPRODUCED, MODIFIED OR ALTERED WITHOUT EXPRESSED WRITTEN CONSENT. THE DRAWINGS ARE DATED AND USE OF THESE DRAWINGS AFTER ONE YEAR FROM THE DATED NOTED IS NOT AUTHORIZED. CONTRACTOR SHALL CHECK ALL CONDITIONS BEFORE PROCEEDING WITH WORK. LATEST MUNICIPAL APPROVED DRAWINGS ONLY TO BE USED DURING INSTALLATION OF HEATING SYSTEM. HVAC DESIGNS LTD. IS NOT LIABLE FOR ANY CLAIMS ARISING FROM UNAUTHORIZED USE OF THE DRAWINGS OR FROM ANY CHANGES TO ACCEPTED STANDARDS AND/OR THE ONTARIO BUILDING CODE.

Client BAYVIEW WELLINGTON		 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	Sheet Title FIRST FLOOR HEATING LAYOUT	
Project Name ALCONA INNISFIL, ONTARIO			Date JUNE/2017	
32-2-10 2135 sqft			Scale 3/16" = 1'-0"	
			BCIN# 19669	
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.		LO#	74575	



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

Michael O'Rourke
Michael O'Rourke, BCIN# 19669
HVAC DESIGNS LTD.

Town of Innisfil Certified Model
04/01/2018 12:46:08 PM kgervais

CSA-F280-12
PACKAGE A1

HVAC LEGEND								3.		
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	2.		
	FLOOR SUPPLY AIR GRILLE		6" SUPPLY AIR BOOT ABOVE		14"x8" RETURN AIR GRILLE		RETURN AIR STACK ABOVE	1.		
	FLOOR SUPPLY AIR GRILLE 6" BOOT		SUPPLY AIR STACK FROM 2nd FLOOR		30"x8" RETURN AIR GRILLE		RETURN AIR STACK 2nd FLOOR	No.	Description	Date
	SUPPLY AIR BOOT ABOVE		6" SUPPLY AIR STACK 2nd FLOOR		FRA- FLOOR RETURN AIR GRILLE		REDUCER	REVISIONS		

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Client		 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.	Sheet Title	
BAYVIEW WELLINGTON			SECOND FLOOR HEATING LAYOUT	
Project Name			Date	JUNE/2017
ALCONA INNISFIL, ONTARIO			Scale	3/16" = 1'-0"
			BCIN# 19669	
32-2-10	2135 sqft	LO#	74575	