

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	Postal code	Plan number/ other description	
INNISFIL			
B. Individual who reviews and takes responsibility for design activities			
Name		Firm	
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@hvacdesigns.ca
Telephone number	Fax number	Cell number	
(905) 619-2300	(905) 619-2375	()	
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			

NOTE:

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.

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

SITE NAME: ALCONA BUILDER: BAYVIEW WELLINGTON										TYPE: 32-10C-15		GFA: 2558		DATE: Jun-17 LO# 74689		WINTER NATURAL AIR CHANGE RATE 0.085		HEAT LOSS AT °F 83		HEAT GAIN AT °F 12		CSA F280-11 SB-12 PACKAGE A1	
ROOM USE		MBR		ENS		WIC		BED-2		BED-3		BED-4		BATH		ENS-2							
EXP. WALL CLG. HT.		37 9		29 9		5 9		27 9		33 10		15 10		12 9		9 9							
FACTORS		333		261		45		243		330		150		108		81							
GRS.WALL AREA		LOSS GAIN		LOSS GAIN		LOSS GAIN		LOSS GAIN		LOSS GAIN		LOSS GAIN		LOSS GAIN		LOSS GAIN							
GLAZING		0		0		0		0		0		0		0		0							
NORTH		23.3		15.7		0		0		0		0		0		0							
EAST		23.3		41.3		0		33		31		0		0		0							
SOUTH		23.3		24.6		0		0		40		932		585		33		769		812			
WEST		23.3		41.3		0		0		0		0		0		0		0		0			
SKYLT.		40.8		104.1		0		0		0		0		0		0		0		0			
DOORS		27.8		3.9		0		0		0		0		0		0		0		0			
NET EXPOSED WALL		4.9		0.7		0		0		259		1265		179		117		572		81			
NET EXPOSED BSMT WALL ABOVE GR		3.9		0.6		0		0		0		0		0		0		0		0			
EXPOSED CLG		1.4		0.5		0		0		165		232		94		136		55		205			
NO ATTIC EXPOSED CLG		3.0		1.2		0		0		92		397		161		30		90		37			
EXPOSED FLOOR		0		0		0		0		40		112		16		0		0		0			
BASEMENT/CRAWL HEAT LOSS		0		0		0		0		0		0		0		0		0		0			
SLAB ON GRADE HEAT LOSS		0		0		0		0		0		0		0		0		0		0			
SUBTOTAL HT LOSS		2868		1819		338		2487		3565		1719		1089		1018		720					
SUB TOTAL HT GAIN		0		0		0		0		0		0		0		0		0					
LEVEL FACTOR / MULTIPLIER		0.20		0.22		0.20		0.20		0.20		0.20		0.20		0.20		0.22					
AIR CHANGE HEAT LOSS		624		396		87		541		775		374		237		221		37					
AIR CHANGE HEAT GAIN		0		0		0		0		136		53		36		124		76					
DUCT LOSS		0		0		0		0		434		0		0		0		0					
DUCT GAIN		0		0		0		0		354		0		0		0		0					
HEAT GAIN PEOPLE		240		0		0		1		240		1		240		0		0					
HEAT GAIN APPLIANCES/LIGHTS		491		0		0		491		491		491		491		0		0					
TOTAL HT LOSS BTU/H		3492		2215		534		3331		4774		2093		1326		1383		1083					
TOTAL HT GAIN x 1.3 BTU/H		3801		327		3550		5967		2380		976											

ROOM USE		DIN		KIT/FRM		LAUN		PWD		FOY		LIB		BAS	
EXP. WALL CLG. HT.		36 10		66 10		10 9		7 10		17 11		35 11		170 9	
FACTORS		360		660		90		70		187		385		1020	
GRS.WALL AREA		LOSS GAIN		LOSS GAIN		LOSS GAIN		LOSS GAIN		LOSS GAIN		LOSS GAIN		LOSS GAIN	
GLAZING		0		0		0		0		0		0		0	
NORTH		23.3		16.7		0		0		0		0		0	
EAST		23.3		41.3		0		0		0		0		0	
SOUTH		23.3		24.6		30		699		739		33		769	
WEST		23.3		41.3		95		2213		3921		45		1048	
SKYLT.		40.8		104.1		0		0		0		0		0	
DOORS		27.8		3.9		0		0		0		0		0	
NET EXPOSED WALL		4.9		0.7		90		440		52		70		342	
NET EXPOSED BSMT WALL ABOVE GR		3.9		0.6		0		0		0		0		0	
EXPOSED CLG		1.4		0.5		0		0		0		0		0	
NO ATTIC EXPOSED CLG		3.0		1.2		0		0		0		0		0	
EXPOSED FLOOR		0		0		0		0		0		0		0	
BASEMENT/CRAWL HEAT LOSS		0		0		0		0		0		0		0	
SLAB ON GRADE HEAT LOSS		0		0		0		0		0		0		0	
SUBTOTAL HT LOSS		2842		5030		594		342		2197		3262		8926	
SUB TOTAL HT GAIN		0		0		0		0		0		0		0	
LEVEL FACTOR / MULTIPLIER		0.30		0.36		0.20		0.30		0.30		0.30		0.50	
AIR CHANGE HEAT LOSS		960		2008		129		124		788		1185		8461	
AIR CHANGE HEAT GAIN		0		0		0		0		0		0		0	
DUCT LOSS		0		0		0		0		0		0		0	
DUCT GAIN		0		0		0		0		0		0		0	
HEAT GAIN PEOPLE		240		0		0		0		0		0		0	
HEAT GAIN APPLIANCES/LIGHTS		491		481		491		466		2996		4447		17387	
TOTAL HT LOSS BTU/H		3803		7534		724		466		1736		4205		1391	
TOTAL HT GAIN x 1.3 BTU/H		2548		7510		809		66							

SITE NAME: ALCONA
BUILDER: BAYVIEW WELLINGTON

TYPE: 32-10C-15

DATE: Jun-17

GFA: 2558

LO# 74589

HEATING CFM 1100 COOLING CFM 1100
TOTAL HEAT LOSS 56,283 TOTAL HEAT GAIN 36,630
AIR FLOW RATE CFM 19.54 AIR FLOW RATE CFM 30.03furnace pressure 0.6
furnace filter 0.05
a/c coil pressure 0.2
available pressure 0.35
for s/a & r/a*LENNOX
EL298UH070XE36B 70
FAN SPEED
LOW 0
MEDIUM 995
HIGH 1100AFUE = 96 %
INPUT (BTU/H) = 66,000
OUTPUT (BTU/H) = 64,000
DESIGN CFM = 1100
CFM @ 5" E.S.P.

RUN COUNT	4th	3rd	2nd	1st	Bas
S/A	0	0	12	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	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	ENS-2	DIN	KT/FM	KT/FM	KT/FM	LAUN	PWD	FOY	LIB	BAS	BAS	BAS	BAS
RM LOSS MBH	1.75	2.22	0.53	1.67	2.39	2.09	1.33	1.67	2.39	1.75	1.36	3.60	1.88	1.88	1.88	0.72	0.47	3.00	2.22	4.35	4.35	4.35	4.35
CFM PER RUN HEAT	34	43	10	33	47	41	26	33	47	34	27	70	37	37	37	14	9	59	43	85	85	85	85
RM GAIN MBH	1.90	1.18	0.33	1.77	2.53	2.38	0.98	1.77	2.53	1.90	1.08	2.55	1.88	1.88	1.88	0.81	0.07	1.74	2.10	0.35	0.35	0.35	0.35
CFM PER RUN COOLING	57	36	10	53	76	71	29	53	76	57	33	77	56	56	56	24	2	52	63	10	10	10	10
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	0.16	0.16	0.16	0.16
ACTUAL DUCT LGH.	43	63	43	49	39	32	28	51	50	46	38	20	36	31	41	35	20	16	32	30	28	9	33
EQUIVALENT LENGTH	130	170	140	150	170	160	130	160	140	160	170	180	140	130	140	190	110	110	120	100	120	140	110
TOTAL EFFECTIVE LENGTH	173	233	183	199	209	192	158	211	190	206	208	200	176	161	181	225	130	126	152	130	148	149	143
ADJUSTED PRESSURE	0.1	0.07	0.09	0.09	0.08	0.09	0.11	0.08	0.09	0.08	0.08	0.09	0.1	0.11	0.1	0.08	0.13	0.14	0.11	0.12	0.11	0.11	0.11
ROUND DUCT SIZE	5	4	4	5	5	5	4	5	5	5	4	5	5	4	5	4	4	4	5	5	5	5	5
HEATING VELOCITY (f/min)	250	493	115	242	345	301	298	242	345	250	310	514	272	424	272	161	103	677	316	624	624	624	624
COOLING VELOCITY (f/min)	419	413	115	389	558	521	333	389	558	419	379	565	411	642	411	275	23	597	463	73	73	73	73
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
TRUNK	A	D																					

ROOM NAME	LIB	KT/FM
RM LOSS MBH	2.22	1.88
CFM PER RUN HEAT	43	37
RM GAIN MBH	2.10	1.88
CFM PER RUN COOLING	63	56
ADJUSTED PRESSURE	0.17	0.17
ACTUAL DUCT LGH.	1	28
EQUIVALENT LENGTH	0	110
TOTAL EFFECTIVE LENGTH	1	138
ADJUSTED PRESSURE	17.2	0.12
ROUND DUCT SIZE	5	4
HEATING VELOCITY (f/min)	316	424
COOLING VELOCITY (f/min)	463	642
OUTLET GRILL SIZE	3X10	3X10
TRUNK	A	D

SUPPLY AIR TRUNK SIZE	TRUNK	STATIC PRESS.	ROUND DUCT	RECT DUCT	VELOCITY (f/min)	TRUNK CFM	STATIC PRESS.	ROUND DUCT	RECT DUCT	VELOCITY (f/min)	RETURN AIR TRUNK SIZE	TRUNK CFM	STATIC PRESS.	ROUND DUCT	RECT DUCT	VELOCITY (f/min)
TRUNK A	265	0.08	8.5	8	596	0	0.00	0	0	8	TRUNK O	0	0.05	0	0	8
TRUNK B	547	0.08	11.2	14	703	0	0.00	0	0	8	TRUNK P	0	0.05	0	0	8
TRUNK C	188	0.07	7.8	8	423	0	0.00	0	0	8	TRUNK Q	0	0.05	0	0	8
TRUNK D	554	0.07	11.6	16	623	0	0.00	0	0	8	TRUNK R	0	0.05	0	0	8
TRUNK E	0	0.00	0	0	0	0	0.00	0	0	8	TRUNK S	0	0.05	0	0	8
TRUNK F	0	0.00	0	0	0	0	0.00	0	0	8	TRUNK T	0	0.05	0	0	8
TRUNK G	0	0.00	0	0	0	0	0.00	0	0	8	TRUNK U	0	0.05	0	0	8
TRUNK H	0	0.00	0	0	0	0	0.00	0	0	8	TRUNK V	0	0.05	0	0	8
TRUNK I	0	0.00	0	0	0	0	0.00	0	0	8	TRUNK W	0	0.05	0	0	8
TRUNK J	0	0.00	0	0	0	0	0.00	0	0	8	TRUNK X	920	0.05	15.3	28	591
TRUNK K	0	0.00	0	0	0	0	0.00	0	0	8	TRUNK Y	0	0.05	0	0	8
TRUNK L	0	0.00	0	0	0	0	0.00	0	0	8	TRUNK Z	0	0.05	0	0	8
TRUNK M	0	0.00	0	0	0	0	0.00	0	0	8	DROP	1100	0.05	16.3	24	660
TRUNK N	0	0.00	0	0	0	0	0.00	0	0	8						
TRUNK O	0	0.00	0	0	0	0	0.00	0	0	8						
TRUNK P	0	0.00	0	0	0	0	0.00	0	0	8						
TRUNK Q	0	0.00	0	0	0	0	0.00	0	0	8						
TRUNK R	0	0.00	0	0	0	0	0.00	0	0	8						
TRUNK S	0	0.00	0	0	0	0	0.00	0	0	8						
TRUNK T	0	0.00	0	0	0	0	0.00	0	0	8						
TRUNK U	0	0.00	0	0	0	0	0.00	0	0	8						
TRUNK V	0	0.00	0	0	0	0	0.00	0	0	8						
TRUNK W	0	0.00	0	0	0	0	0.00	0	0	8						
TRUNK X	920	0.05	15.3	28	591	0	0.05	15.3	28	591						
TRUNK Y	0	0.05	0	0	8	0	0.05	0	0	8						
TRUNK Z	0	0.05	0	0	8	0	0.05	0	0	8						
DROP	1100	0.05	16.3	24	660											
TRUNK																

I REVIEW AND TAKE RESPONSIBILITY FOR THE DESIGN WORK AND AM QUALIFIED IN THE APPROPRIATE CATEGORY AS AN "OTHER DESIGNER" UNDER DIVISION C, 3.2.5 OF THE BUILDING CODE.

Michael O'Rourke

INDIVIDUAL BCIN: 19669

MICHAEL O'ROURKE

TYPE: 32-10C-15
SITE NAME: ALCONA

LO # 74589

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	5	@ 10.6 cfm	53	cfm
Other Rooms	5	@ 10.6 cfm	53.0	cfm
Table 9.32.3.A.		TOTAL	180.2	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	180.2	cfm
Less Principal Ventil. Capacity	139	cfm
Required Supplemental Capacity	41.2	cfm

PRINCIPAL EXHAUST FAN CAPACITY

Model: VANE 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
ENS-2	QTXEN050C	50	☒	0.3
PWD	QTXEN050C	50	☒	0.3

HEAT RECOVERY VENTILATOR 9.32.3.11.

Model: VANE 60H-V+

139 cfm high 50 cfm low

75 % Sensible Efficiency @ 32 deg F (0 deg C) ☒ HVI Approved

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



Town of Innisfil Certified Model
15/02/2018 12:55:13 PM kgervais

375 Finley Ave. Suite 202 Ajax, ON L1S 2E2
Tel: 905.619.2300 Fax: 905.619.2375

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

HEAT LOSS AND GAIN SUMMARY SHEET

MODEL:	32-10C-15	BUILDER:	BAYVIEW WELLINGTON
SFQT:	2558	LO#	74589
		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):	34238.0	ASSUMED (Y/N):	Y
INTERNAL SHADING:	BLINDS/CURTAINS	ASSUMED OCCUPANTS:	5
INTERIOR LIGHTING LOAD (Btu/h/ft²):	1.20	DC BRUSHLESS MOTOR (Y/N):	Y
FOUNDATION CONFIGURATION	BCIN_1	DEPTH BELOW GRADE:	6.0 ft
LENGTH: 57.0 ft	WIDTH: 28.0 ft	EXPOSED PERIMETER:	170.0 ft

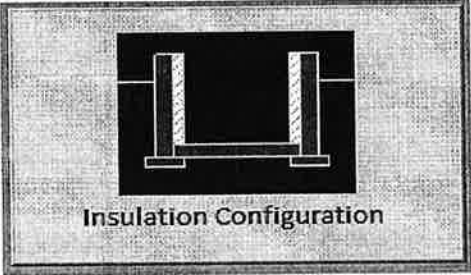
2012 OBC - COMPLIANCE PACKAGE		Compliance Package	
Component		A1	
		Nominal	Min. Eff.
Ceiling with Attic Space Minimum RSI (R)-Value		60	59.22
Ceiling Without Attic Space Minimum RSI (R)-Value		31	27.65
Exposed Floor Minimum RSI (R)-Value		31	29.8
Walls Above Grade Minimum RSI (R)-Value		22	17.03
Basement 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

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 dand, loam, clay	
Water Table:	Normal (7-10 m, 23-33 ft)	
Foundation Dimensions		
Floor Length (m):	17.4	 Insulation Configuration
Floor Width (m):	8.5	
Exposed Perimeter (m):	0.0	
Wall Height (m):	2.7	
Depth Below Grade (m):	1.83	
Window Area (m ²):	1.1	
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):		1783



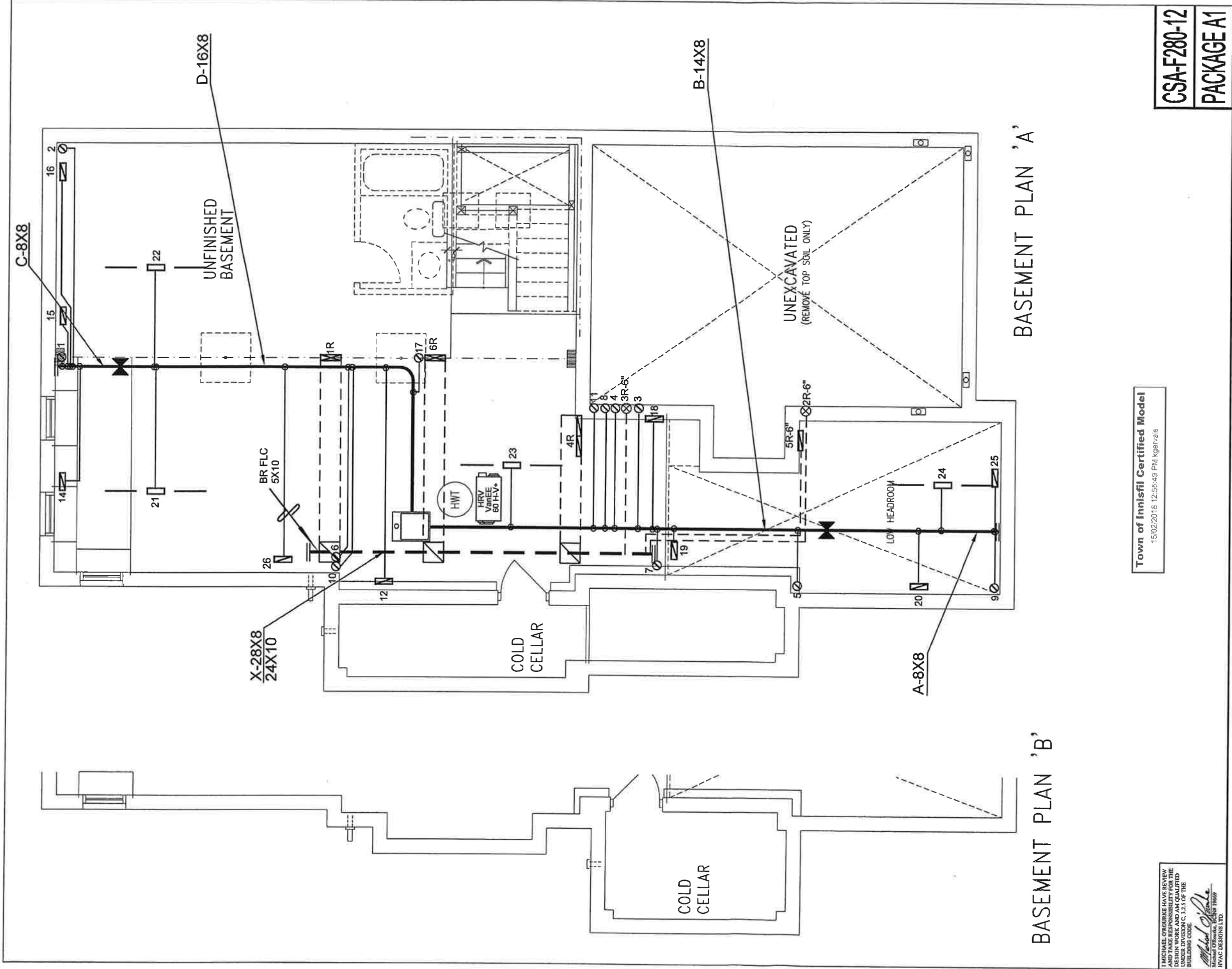
HVAC Designs Ltd.
375 Finley Ave, Suite 202
Ajax ON, L1S 2E2
905-619-2300

Air Infiltration Residential Load Calculator

Supplemental tool for CAN/CSA-F280

Weather 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):	969.5		
Air Leakage/Ventilation			
Air Tightness Type:	Present (1961-) (3.57 ACH)		
Custom BDT Data:	ELA @ 10 Pa.	1292.4 cm ²	
	3.57	ACH @ 50 Pa	
Mechanical Ventilation (L/s):	Total Supply	Total Exhaust	
	65.6	65.6	
Flue Size			
Flue #:	#1	#2	#3
Diameter (mm):	0	0	0
			#4
			0
Natural Infiltration Rates			
Heating Air Leakage Rate (ACH/H):		0.332	
Cooling Air Leakage Rate (ACH/H):		0.085	

TYPE: 32-10C-15
LO# 74589



CSA-F280-12
PACKAGE A1

Town of Innisfil Certified Model
15/02/2018 12:55:43 PM kgervais

HVAC LEGEND					3.	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	
	SUPPLY AIR GRILLE		14"x8" RETURN AIR GRILLE		RETURN AIR STACK ABOVE	
	SUPPLY AIR GRILLE 6" BOOT		30"x38" RETURN AIR GRILLE		RETURN AIR STACK 2nd FLOOR	
	SUPPLY AIR BOOT ABOVE		FRA- FLOOR RETURN AIR GRILLE		REDUCER	
					REVISIONS	
					No.	Description
						Date

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Client		Sheet Title	
BAYVIEW WELLINGTON		BASEMENT HEATING LAYOUT	
Project Name		Date	
ALCONA INNISFIL, ONTARIO		JUNE/2017	
32-10C-15		Scale	
		3/16" = 1'-0"	
		BCIN# 19669	
		LO# 74589	

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

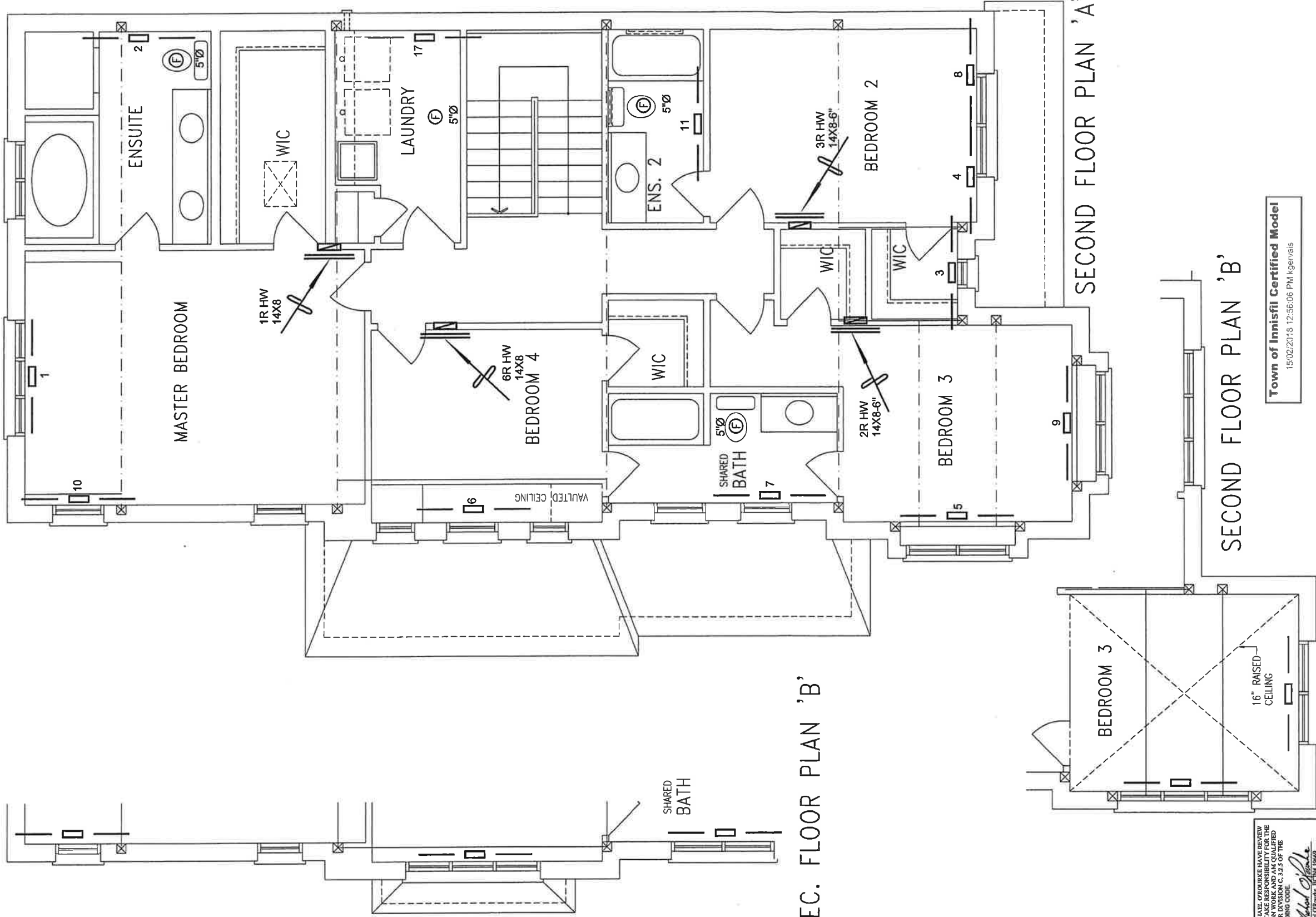
Installation to comply with the latest Ontario Building Code. All supply branch outlets shall be equipped with a manual balancing damper. Ductwork which passes through the garage or unheated spaces shall be adequately insulated and be gas-proofed.

HEAT LOSS 59406 BTU/H

UNIT DATA

MAKE	LENNOX
MODEL	EL296JH070XE36B-70
INPUT	66 MBTU/H
OUTPUT	64 MBTU/H
COOLING	3.0 TONS
FAN SPEED	1100 cfm @ 0.5" w.c.

# OF RUNS	S/A	R/A	FANS
3RD FLOOR			
2ND FLOOR	12	4	4
1ST FLOOR	9	2	1
BASEMENT	4	1	0
ALL S/A DIFFUSERS 4"x10" UNLESS NOTED OTHERWISE ON LAYOUT. ALL S/A RUNS 5"Ø UNLESS NOTED OTHERWISE ON LAYOUT. UNDERCUT DOORS 1" min. FOR R/A			



SEC. FLOOR PLAN 'B'

SECOND FLOOR PLAN 'A'

SECOND FLOOR PLAN 'B'

1 MICHAEL OKORURKE HAVE REVIEWED THIS DRAWING FOR THE DESIGN WORK AND AM QUALIFIED UNDER DIVISION C.3.2.5 OF THE BUILDING CODE.
Michael Okorurke
HVAC DESIGNS LTD.

Town of Innisfil Certified Model
15/02/2018 12:56:06 PM kgervais

CSAF280-12

PACKAGE A1

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

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BAYVIEW WELLINGTON

Client

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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 adequately insulated and be gas-proofed.

ALCONA

Project Name

INNISFIL, ONTARIO

Client

SECOND FLOOR HEATING LAYOUT

Sheet Title

Date JUNE/2017

Scale 3/16" = 1'-0"

BCIN# 19669

LO# 74589

32-10C-15

2558 sqft

