

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@hvaccdesigns.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



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

SITE NAME: ALCONA

BUILDER: BAYVIEW WELLINGTON

TYPE: 32-B-15

GFA: 2170

DATE: Jmr-17
LOG 74587

WINTER NATURAL AIR CHANGE RATE 0.332
SUMMER NATURAL AIR CHANGE RATE 0.087

HEAT LOSS AT "F" 83
HEAT GAIN AT "F" 12

CSA-F280-12
SB-42 PACKAGE A1

ROOM USE EXP. WALL CLG. HT.	MIR	ENS	BED-2	BED-3	BED-4	BATH	Town of Innisfil Certified Model 14/02/2018 10:28:54 AM kgervais	
GRS.WALL AREA GLAZING FACTORS LOSS GAIN	306 LOSS GAIN	216 LOSS GAIN	216 LOSS GAIN	371 LOSS GAIN	144 LOSS GAIN	117 LOSS GAIN		
NORTH	23.3 15.8	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0		
EAST	23.3 41.4	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0		
SOUTH	23.3 24.7	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0		
WEST	23.3 41.4	28 652 1159	13 303 538	8 186 198	24 559 594	0 0 0		
SKYLT.	40.8 104.3	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0		
DOORS	27.6 4.1	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0		
NET EXPOSED WALL	4.9 0.7	278 1368 199	203 992 145	313 1527 224	120 586 85	117 572 84		
NET EXPOSED BSMT WALL ABOVE GR	3.9 0.6	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0		
NO ATTIC EXPOSED CLG	1.4 0.6	286 402 165	135 190 78	234 329 135	198 278 114	206 289 119		
EXPOSED FLOOR	3.0 1.2	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0		
BASEMENT/CRAWL HEAT LOSS	2.8 0.4	0 0 0	0 0 0	0 0 0	0 0 0	15 42 6		
SLAB ON GRADE HEAT LOSS	0 0	0 0	0 0	0 0	0 0	0 0		
SUBTOTAL HT LOSS	2412	1484	2469	3303	1424	903		
SUB TOTAL HT GAIN	1523	761	1686	2666	794	209		
LEVEL FACTOR / MULTIPLIER	0.20 0.24	0.20 0.24	0.20 0.24	0.20 0.24	0.20 0.24	0.20 0.24		
AIR CHANGE HEAT LOSS	587	351	600	803	345	220		
AIR CHANGE HEAT GAIN	108	54	119	188	55	112		
DUCT LOSS	0	0	307	0	0	0		
HEAT GAIN PEOPLE	240	0	284	0	0	22		
HEAT GAIN APPLIANCES/LIGHTS	2	480	1	240	1	240		
TOTAL HT LOSS BTU/H	793	793	793	793	793	0		
TOTAL HT GAIN x 1.3 BTU/H	2999	1845	3378	4106	1770	1235		

ROOM USE EXP. WALL CLG. HT.	KIDL	LAUN	WIR	FOY	WOD	BAS
GRS.WALL AREA GLAZING FACTORS LOSS GAIN	740 LOSS GAIN	240 LOSS GAIN	180 LOSS GAIN	360 LOSS GAIN	243 LOSS GAIN	1074 LOSS GAIN
NORTH	23.3 15.8	0 0 0	0 0 0	0 0 0	23 836 364	8 186 126
EAST	23.3 41.4	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
SOUTH	23.3 24.7	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
WEST	23.3 41.4	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
SKYLT.	40.8 104.3	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
DOORS	27.6 4.1	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
NET EXPOSED WALL	4.9 0.7	220 553 81	0 0 0	40 1106 162	0 0 0	20 553 81
NET EXPOSED BSMT WALL ABOVE GR	3.9 0.6	220 1075 158	171 835 123	314 1534 225	139 648 80	294 1158 170
NO ATTIC EXPOSED CLG	1.4 0.6	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
EXPOSED FLOOR	3.0 1.2	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
BASEMENT/CRAWL HEAT LOSS	2.8 0.4	0 0 0	0 0 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 0	0 0 0	0 0 0
SUBTOTAL HT LOSS	5596	1628	1045	2779	1083	7153
SUB TOTAL HT GAIN	4726	239	345	635	444	377
LEVEL FACTOR / MULTIPLIER	0.30 0.39	0.30 0.39	0.30 0.39	0.30 0.39	0.50	0.89
AIR CHANGE HEAT LOSS	2235	639	410	1091	23	7293
AIR CHANGE HEAT GAIN	334	17	24	45	0	58
DUCT LOSS	0	0	0	0	0	0
HEAT GAIN PEOPLE	0	0	0	0	0	0
HEAT GAIN APPLIANCES/LIGHTS	793	793	0	0	0	793
TOTAL HT LOSS BTU/H	7931	2257	1455	3871	1083	14446
TOTAL HT GAIN x 1.3 BTU/H	7698	1352	450	884	577	1596

TOTAL HEAT GAIN BTU/H: 29977

TONS: 2.47

LOSS DUE TO VENTILATION LOAD BTU/H: 3122

STRUCTURAL HEAT LOSS: 46389

TOTAL COMBINED HEAT LOSS BTU/H: 49507

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

SITE NAME: ALCONA

BUILDER: BAYVIEW WELLINGTON

TYPE: 32-8-15

DATE: JUN-17

GFA: 2170 LCH: 74587

HEATING CFM 995 COOLING CFM 995
TOTAL HEAT LOSS 46,385 TOTAL HEAT GAIN 29,219
AIR FLOW RATE CFM 21.45 AIR FLOW RATE CFM 34.05TYPE: 32-8-15
furnace pressure 0.6
a/c coil pressure 0.05
available pressure 0.2
for s/a & r/a 0.35ALLENNOX
EL296UH070XE36B 70
FAN SPEED
LOW 0
MEDIUM 995
HIGH 1100AFUE = 96 %
INPUT (BTU/H) = 66,000
OUTPUT (BTU/H) = 64,000

RUN COUNT	4th	3rd	2nd	1st	Bas
S/A	0	0	9	6	4
R/A	0	0	4	1	1

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

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

DESIGN CFM = 995
CFM @ .6" E.S.P.r/a pressure 0.17
r/a grille press. loss 0.02
adjusted pressure r/a 0.15

TEMPERATURE RISE 60 °F

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	BED-2	BED-3	BED-4	BATH	BED-2	BED-3	BED-4	MBR	K/D/L	K/D/L	K/D/L	K/D/L	K/D/L	K/D/L	K/D/L	K/D/L	K/D/L	K/D/L	K/D/L	K/D/L	K/D/L	K/D/L
RM LOSS MBH	1.50	1.85	1.69	2.05	1.77	1.23	1.69	2.05	1.77	1.50	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64
CFM PER RUN HEAT	32	40	36	44	38	26	36	44	32	32	57	57	57	57	57	57	57	57	57	57	57	57	57	57
RM GAIN MBH	1.89	1.06	2.03	2.53	2.45	0.32	2.03	2.53	1.89	1.89	2.54	2.54	2.54	2.54	2.54	2.54	2.54	2.54	2.54	2.54	2.54	2.54	2.54	2.54
CFM PER RUN COOLING	64	36	69	86	83	11	69	86	64	64	86	86	86	86	86	86	86	86	86	86	86	86	86	86
ADJUSTED PRESSURE	0.17	0.17	0.17	0.16	0.16	0.17	0.17	0.16	0.17	0.17	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
EQUIVALENT LENGTH	36	31	37	49	43	28	40	54	40	40	24	27	27	27	27	27	27	27	27	27	27	27	27	27
TOTAL EFFECTIVE LENGTH	186	211	157	189	233	188	170	204	180	140	100	90	90	90	90	90	90	90	90	90	90	90	90	90
ADJUSTED PRESSURE	0.09	0.08	0.11	0.09	0.07	0.09	0.1	0.08	0.1	0.1	0.13	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
HEATING VELOCITY (ft/min)	235	459	264	323	194	298	264	224	235	235	419	419	419	419	419	419	419	419	419	419	419	419	419	419
COOLING VELOCITY (ft/min)	470	413	507	631	423	126	507	438	470	470	631	631	631	631	631	631	631	631	631	631	631	631	631	631
OUTLET GRILL SIZE	3X10	3X10	3X10	3X10	4X10	3X10	3X10	3X10	4X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10
TRUNK	A	A	C	B	A	C	C	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A

Town of Innisfil Certified Model

14/02/2018 10:26:59 AM kgervais

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)	TRUNK CFM	STATIC PRESS.	ROUND DUCT	RECT DUCT	VELOCITY (ft/min)
TRUNK A	479	0.07	11	14	8	TRUNK G	0	0	0	0	TRUNK H	0	0	0	0
TRUNK B	285	0.08	8.8	10	8	TRUNK I	0	0	0	0	TRUNK J	0	0	0	0
TRUNK C	515	0.08	10.9	14	8	TRUNK K	0	0	0	0	TRUNK L	0	0	0	0
TRUNK D	994	0.07	14.5	24	8										
TRUNK E	0	0.00	0	0	8										
TRUNK F	0	0.00	0	0	8										
RETURN AIR #	1	2	3	4	5										
AIR VOLUME	155	155	85	85	360										
PLENUM PRESSURE	0.15	0.15	0.15	0.15	0.15										
ACTUAL DUCT LGH.	40	43	45	46	31										
EQUIVALENT LENGTH	185	225	145	150	230										
TOTAL EFFECTIVE LH	225	268	190	196	261										
ADJUSTED PRESSURE	0.07	0.06	0.08	0.08	0.06										
ROUND DUCT SIZE	8	8	8	8	10.3										
INLET GRILL SIZE	14	14	14	14	30										

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.

INDIVIDUAL BCIN: 19669

MICHAEL O'ROURKE

TYPE: 32-8-15
SITE NAME: ALCONA

LO # 74587

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	4	@ 10.6 cfm	42.4	cfm
Table 9.32.3.A.		TOTAL	159.0	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	159	cfm
Less Principal Ventil. Capacity	139	cfm
Required Supplemental Capacity	20.0	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	83 F	1.08	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: 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



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:	32-8-15	BUILDER:	BAYVIEW WELLINGTON
SFQT:	2170	LO#	74587
		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):	29514.0	ASSUMED (Y/N):	Y
INTERNAL SHADING:	BLINDS/CURTAINS	ASSUMED OCCUPANTS:	5
INTERIOR LIGHTING LOAD (Btu/h/ft²):	1.75	DC BRUSHLESS MOTOR (Y/N):	Y
FOUNDATION CONFIGURATION	BCIN_1	DEPTH BELOW GRADE:	6.0 ft
LENGTH: 49.0 ft	WIDTH: 27.0 ft	EXPOSED PERIMETER:	152.0 ft

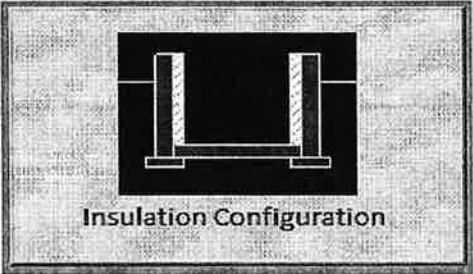
2012 OBC - COMPLIANCE PACKAGE		Compliance Package A1	
Component	Town of Innisfil Certified Model 14/02/2018 10:27:10 AM kgervais	Nominal	Min. Eff.
Ceiling with Attic Space Minimum RSI (R)-Value		60	59.22
Ceiling Without Attic Space Minimum RSI (R)-Value		31	27.65
Exposed Floor Minimum RSI (R)-Value		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

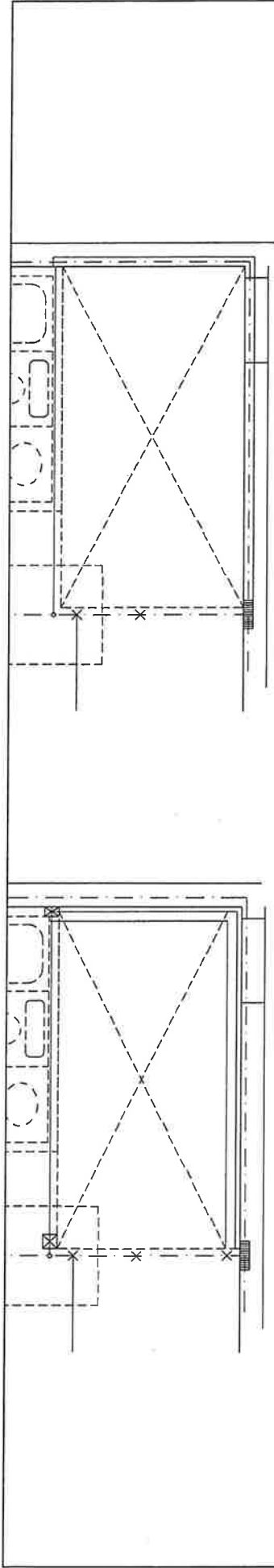
Supplemental tool for CAN/CSA-F280

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):	14.9	 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 (m²):	2.9	
Door Area (m²):	1.9	
Radiant Slab		
Heated Fraction of the Slab:		0
Fluid Temperature (°C):		33
Design Months		
Heating Month		1
Foundation Loads		
Heating Load (Watts):		1540

Air Infiltration Residential Load Calculator

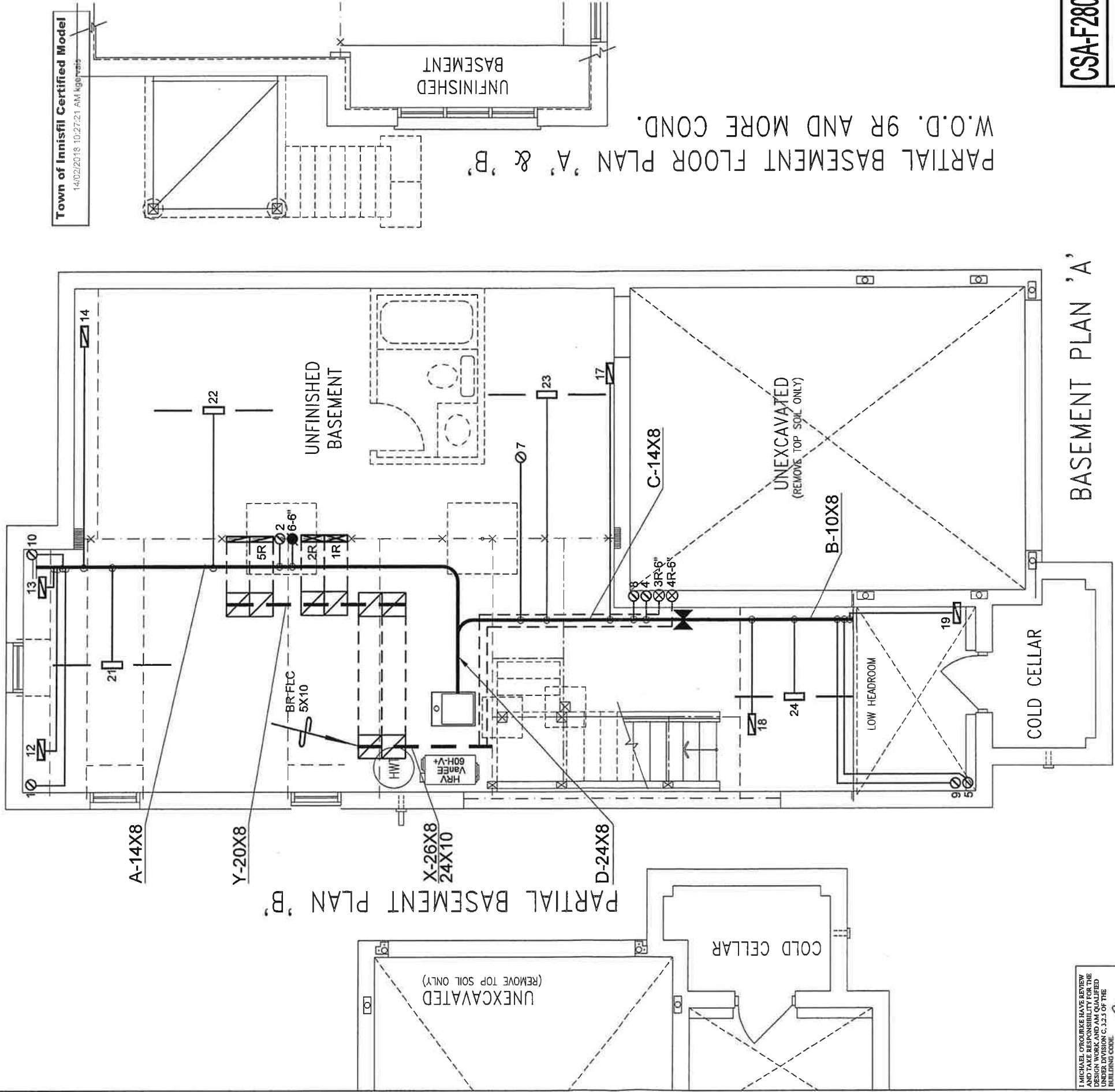
Supplemental tool for CAN/CSA-F280

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):	835.7		
Air Leakage/Ventilation			
Air Tightness Type:	Present (1961-) (3.57 ACH)		
Custom BDT Data:	ELA @ 10 Pa.	1114.1 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 #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		



PART. BSMT PLAN
MUD ROOM SUNKEN >1R

PART. BSMT PLAN
MUD ROOM SUNKEN 1R



PARTIAL BASEMENT PLAN 'B'

PARTIAL BASEMENT FLOOR PLAN 'A' & 'B'
W.O.D. 9R AND MORE COND.

I MICHAEL OROURKE HAVE REVIEWED AND TAKE RESPONSIBILITY FOR THE DESIGN WORK AND AM QUALIFIED TO SIGN THESE DRAWINGS IN ACCORDANCE WITH THE BUILDING CODE.
Michael O'Rourke
MICHAEL O'ROURKE, DCIM 19669
HVAC DESIGNS LTD.

BASEMENT PLAN 'A'

CSA-F280-12

PACKAGE A1

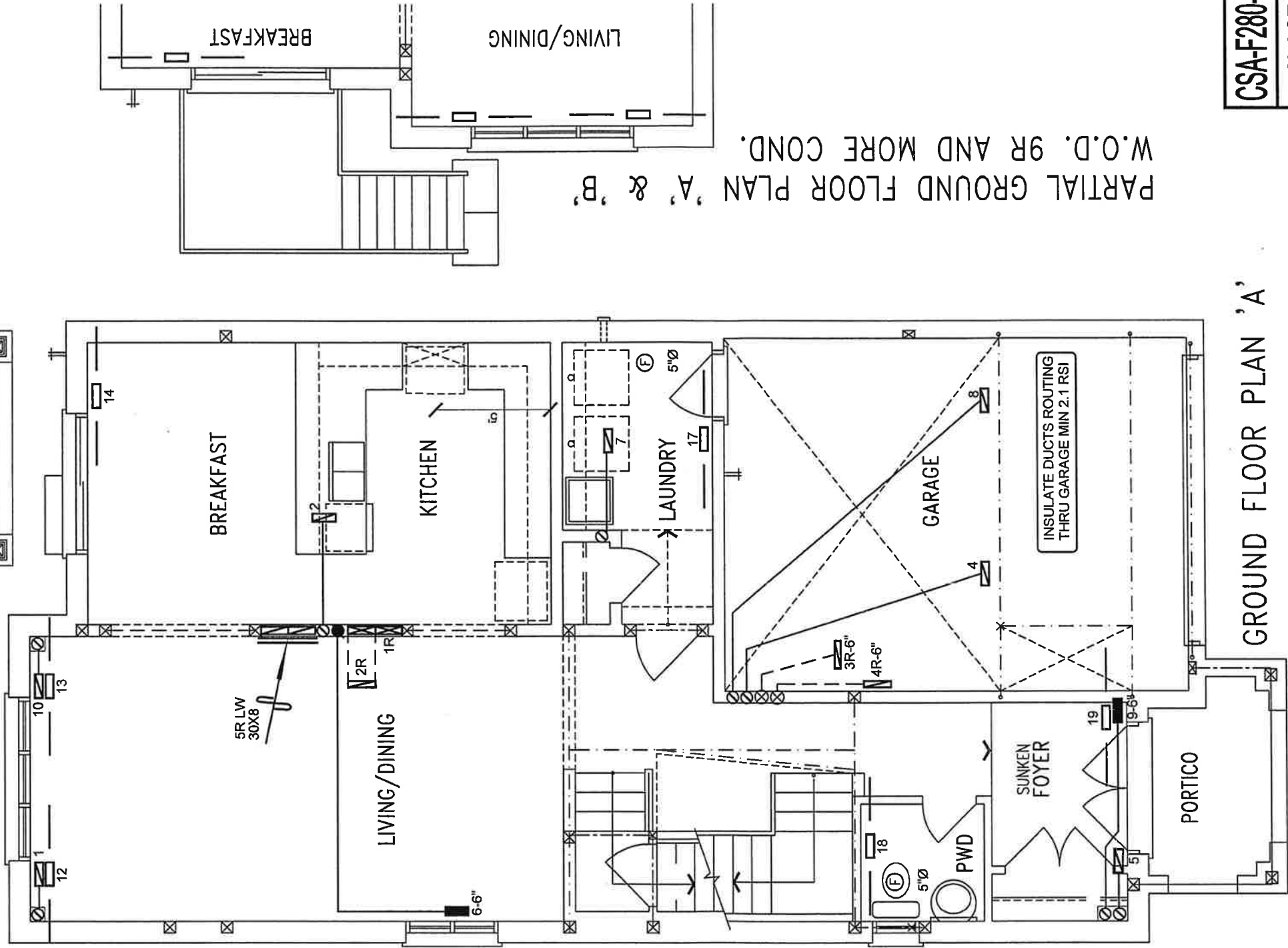
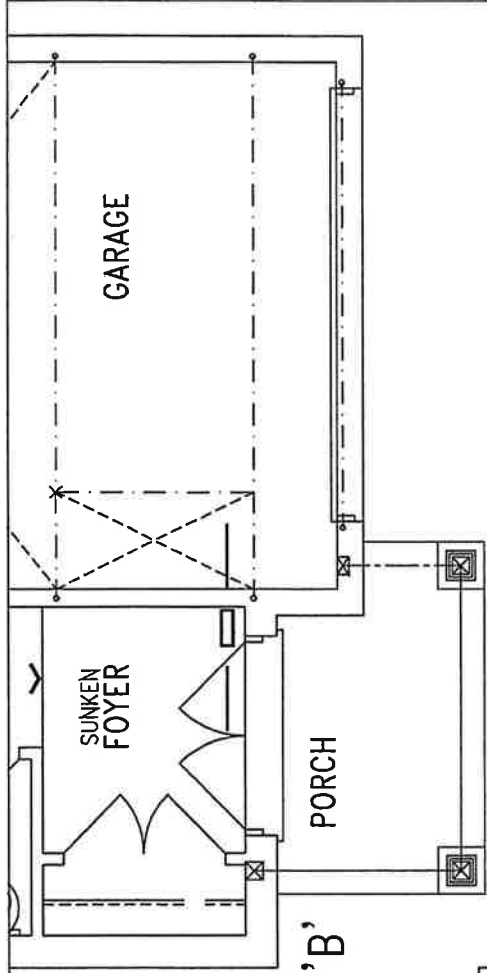
HVAC LEGEND				3.	2.	1.	REVISIONS	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	No.	Description	Date
	FLOOR SUPPLY AIR GRILLE		14"x8" RETURN AIR GRILLE		RETURN AIR STACK ABOVE	1.		
	FLOOR SUPPLY AIR GRILLE 6" BOOT		30"x8" RETURN AIR GRILLE		FRA- FLOOR RETURN AIR GRILLE			
	SUPPLY AIR BOOT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

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		Sheet Title		BAYVIEW WELLINGTON		BASEMENT HEATING LAYOUT	
Project Name		ALCONA INNISFIL, ONTARIO		HEAT LOSS 49507 BTU/H		# OF RUNS	
				UNIT DATA		3RD FLOOR	
				MAKE		2ND FLOOR	
				MODEL		1ST FLOOR	
				INPUT		BASEMENT	
				OUTPUT		ALL S/A DIFFUSERS 4 "x10"	
				COOLING		UNLESS NOTED OTHERWISE	
				FAN SPEED		ON LAYOUT: ALL S/A RUNS 5'Ø	
				TONS		UNLESS NOTED OTHERWISE	
				cfm@ 0.5" w.c.		ON LAYOUT: UNDERCUT	
				995		DOORS 1" min. FOR R/A	
				66		DATE	
				64		JUNE/2017	
				2.5		Scale	
				995		3/16" = 1'-0"	
						BCIN# 19669	
						LO# 74587	

Town of Innisfil Certified Model
14/02/2018 10:27:28 AM kgervais

PART. GROUND FLOOR PLAN 'B'



MICHAEL OROURKE (DATE REVIEW
DESIGN WORK AND AM QUALIFIED
UNDER DIVISION C.3.2.5 OF THE
BUILDING CODE.
Michael O'Rourke
HVAC DESIGNS LTD.

GROUND FLOOR PLAN 'A'

CSA-F280-12
PACKAGE A1

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

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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
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ONTARIO BUILDING CODE.

Client

BAYVIEW WELLINGTON

Project Name

ALCONA

INNISFIL, ONTARIO

HVAC DESIGNS LTD.

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

**FIRST FLOOR
HEATING
LAYOUT**

Date

JUNE/2017

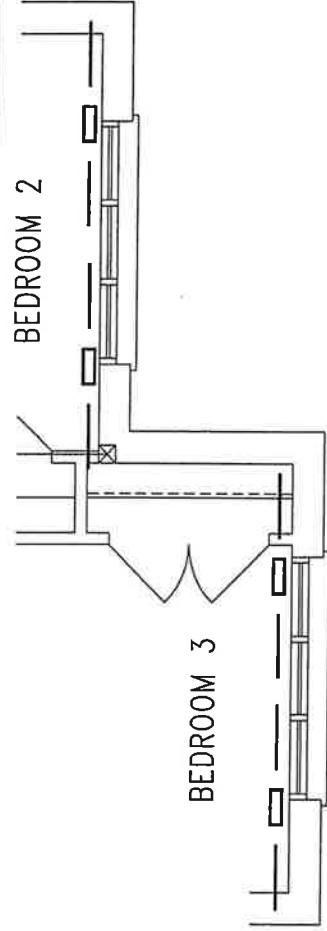
Scale

3/16" = 1'-0"

BCIN# 19669

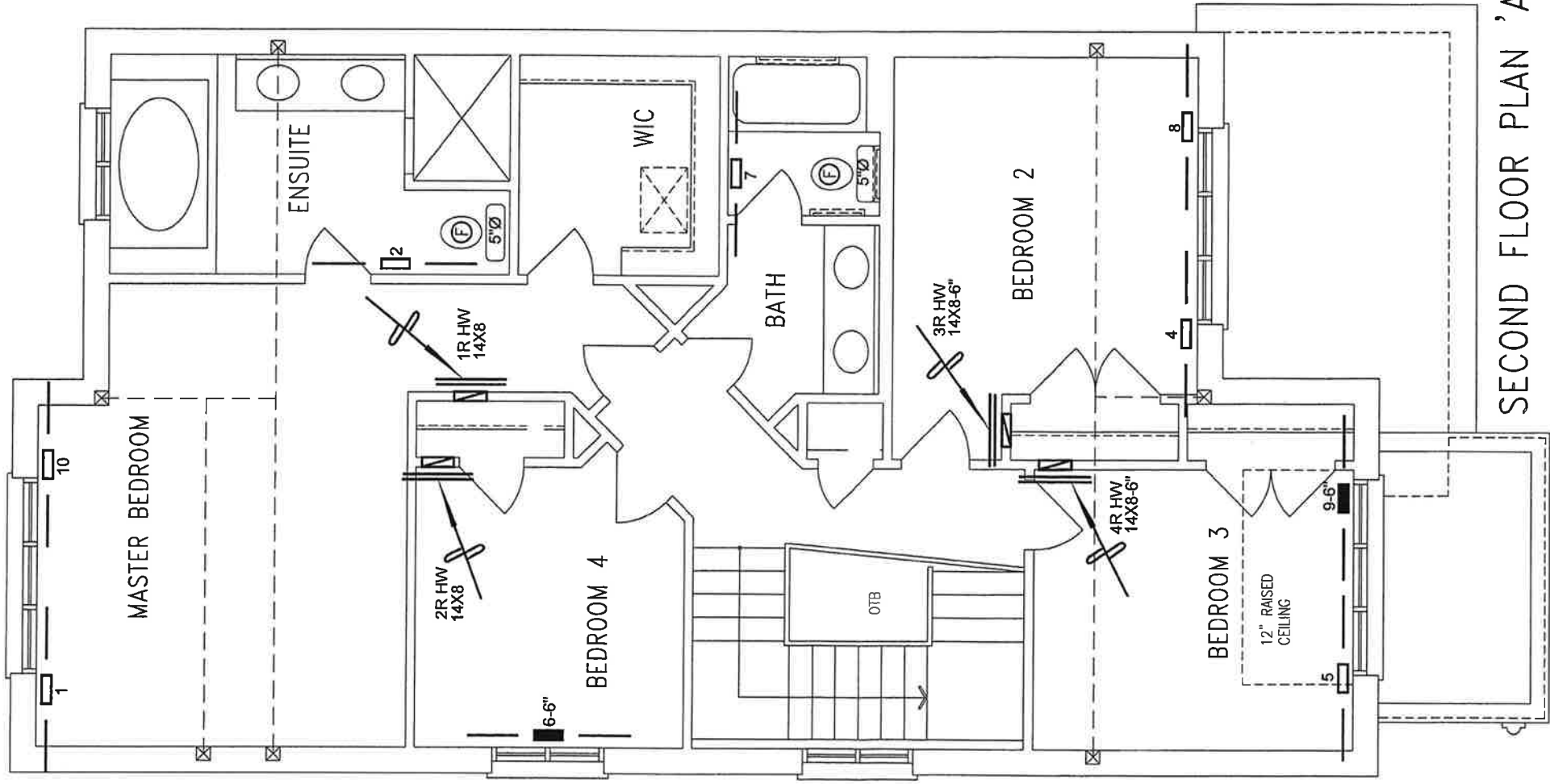
LO# 74587

32-8-15 2170 sqft



PART. SECOND FLOOR PLAN 'B'

Town of Innisfil Certified Model
14/02/2018 10:27:34 AM kgervais



I, MICHAEL O'DRISKE HAVE REVIEWED AND TAKE RESPONSIBILITY FOR THE ACCURACY OF THESE DRAWINGS UNDER DIVISION C, 3.2.2 OF THE BUILDING CODE.
Michael O'Driscoll
Michael O'Driscoll
HVAC DESIGNS LTD.

CSA-F280-12
PACKAGE A1

SECOND FLOOR PLAN 'A'

HVAC LEGEND				REVISIONS			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	No.	Date
	FLOOR SUPPLY AIR GRILLE		14"x8" RETURN AIR GRILLE		RETURN AIR STACK ABOVE	1.	
	FLOOR 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		

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Client

BAYVIEW WELLINGTON

Project Name
**ALCONA
INNISFIL, ONTARIO**

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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

**SECOND FLOOR
HEATING
LAYOUT**

Date
JUNE/2017

Scale
3/16" = 1'-0"

BCIN# 19669

LO# **74587**

