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					- P 2 7 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
Building number, street nan	ne				Unit no.	Lot/con.
Municipality		Postal code	Plan number/ other of	description		
INNISFIL						
B. Individual who revie	ws and takes r	esponsibility fo	or design activities			
Name			Firm		(100 V (1	
MICHAEL O'ROURKE Street address			HVAC DESIGNS LT			
375 FINLEY AVE				Unit no. 202		Lot/con.
Municipality		Postal code	Province	E-mail		1,
AJAX	-	L1S 2E2	ONTARIO	info@hvacdes	igns.ca	
Telephone number (905) 619-2300		Fax number (905) 619-2375		Cell number		
C. Design activities und	dertaken by inc	lividual identifi	ed in Section B. [Bu	ilding Code Tabl	le 3.5.2.1 OF Di	vision C]
					T 250	
│			: – House ng Services		Building Struct	
☐ Large Buildings		Detect	ion, Lighting and F	ower 🔲 F	Plumbing – Ho Plumbing – All	Buildings
Complex Buildings		☐ Fire Pi	rotection		On-site Sewag	e Systems
Description of designer's wo HEAT LOSS / GAIN CALCU			Mode	l: TH-8C		
DUCT SIZING						
RESIDENTIAL MECHANICA			ARY Project	ct: ALCONA		
RESIDENTIAL SYSTEM DE D. Declaration of Desig		280-12			C 788 A Walan C 198 Marin 1984 C 198 A	
						etrus
MICHAEL	O'ROURKE (pri	nt name)		_ declare tha	at (choose one as	appropriate):
☐ I review and take Division C, of the classes/categorie	Building Code. I	the design work of am qualified, and	on behalf of a firm regis the firm is registered, i	tered under subsect n the	tion 3.2.4.of appropriate	
	dual BCIN: _ BCIN: _					
☑ I review and take designer" under	responsibility for er subsection 3.2.	the design and ar 5.of Di visio	m qualified in the appro on C, of the Building Co	priate category as a de.	ın "other	
		19669 m registration and	d qualification:	O.B.C SENT	ENCE 3.2.4.1	(4)
The design work Basis for exempt		from the registrati	ion and qualification rec			
I certify that:						
The informat I have subm	ion contained tted this applicati	in this schedu	ule is true to the best of edge and consent of the	my knowledge. e firm.		
June 14, 2018	3			Michael	O Kounte	≥
Date				-	Signature of D	esigner
					2	
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.

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1513 0.41

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3377 1.14 0 0 6

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TOTAL COMBINED HEAT LOSS BTUIH: 50353

STRUCTURAL HEAT LOSS: 48567

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375 Finley Ave. Suite 202 Ajax, ON L1S 2E2 Tel: 905.619.2300 Fax: 905.619.2375 www.hvacdesigns.ca E-mail: info@hvacdesigns.ca CSA-F280-12 SB-12 PACKAGE A1 83 HEAT LOSS ∆T °F. HEAT GAIN ∆T °F. Web

0.348

WINTER NATURAL AIR CHANGE RATE SUMMER NATURAL AIR CHANGE RATE

BED-4 20 9

0 0 0 0 0 0 307 000 0.32 0 0 0 2 2 5 2 5 2 5 2 5 957 0.20 0 0 72 0 0 0 0 0 0 936 166 240 453 34

0 0 1768 0.32 562 233 2563 147 0 180

DA TE: Jun-18 LO# 78877 506 75 0 240 453 297 OSS 0.32 144 896 GFA: 2453 177 240 453 38

0 0 0 0 0 0 0 TYPE: TH-8C 195

63

MBR 34

EXP. WALL CLG. HT.

BUILDER: BAYVIEW WELLINGTON ROOM USE

SITE NAME: ALCONA

0.32 862 0 288 0 0.20 GAIN 14.4 38.9 23.0 38.9 3.1 3.1 0.5 0.4 0.5 1.1 FACTORS LOSS 23.3 23.3 23.3 23.3 40.8 27.6 4.9 3.9 3.0 2.8 NORTH WEST SKYLT. DOORS GRS.WALL AREA EAST SOUTH

157

0 0 0 1 1 1 2 0 0

NET EXPOSED WALL NO ATTIC EXPOSED CLG **EXPOSED FLOOR** BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUB TOTAL HT GAIN HEAT GAIN PEOPLE NET EXPOSED BSMT WALL ABOVE GR EXPOSED CLG SUBTOTAL HT LOSS LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT GAIN DUCTLOSS **DUCT GAIN**

3442 0 480 453 3572 FAM 29 10 ROOM USE EXP. WALL TOTAL HTLOSS BTU/H HEAT GAIN APPLIANCE SALIGHTS TOTAL HT GAIN x 1.3 BTU/H CLG. HT.

310 .O.S.S 음생음 290 .OSS 1075 0 0 220 38.9 3.1 0.4 FACTORS 23.3 23.3 23.3 40.8 27.6 3.9

GRS.WALL AREA LOSS GAIN EA ST SOUTH DOORS

NET EXPOSED WALL

EXPOSED CLG

0 61 134

NO ATTIC EXPOSED CLG

NET EXPOSED BSMT WALL ABOVE GR **EXPOSED FLOOR**

SUBTOTAL HTLOSS

SLAB ON GRADE HEAT LOSS SUB TOTAL HT GAIN

BASEMENTICRAWL HEAT LOSS LEVEL FACTOR / MULTIPLIER AIR CHANGE HEATLOSS AIR CHANGE HEAT GAIN DUCTLOSS **DUCT GAIN**

240 HEAT GAIN PEOPLE HEAT GAIN APPLIANCE SAIGHTS TOTAL HTLOSS BTUIH TOTAL HT GAIN x 1.3 BTU/H TOTAL HEAT GAIN BTU/H:

3890

LOSS DUE TO VENTILATION LOAD BTU/H: 1786

3409

3818

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.



10/24/2018 9:34:01 AM kbayley

Web: www.hvacdesigns.ca E-mail: info@hvacdesigns.ca 24 BAS 4.02 82 0.61 19 0.16 33 170 203 0.08 6 6 6 418 97 N CFM = 985 CFM @ .6 " E.S.P. AFUE = 96 % INPUT (BTU/H) = 66,000 OUTPUT (BTU/H) = 63,000 23 BAS 82 82 0.61 19 0.16 7 7 7 140 147 0.11 6 29 DESIGN CFM = TEMPERATURE RISE 21 BAS 4.02 82 0.61 19 0.16 0.16 0.1 6 6 140 140 140 140 140 1418 20 LIBR 2.25 46 1.95 62 0.17 41 130 171 0.1 5 78877 LENNOX 70 8 0 0 985 1110 1275 MEDIUM MEDIUM HIGH HIGH EL 196UH070XE36B FAN SPEED § S MEDLOW 18 W/R 0.60 12 0.34 11 0.17 38 160 160 198 0.09 4 4 2453 GFA: 17 0.43 9 0.73 23 0.17 37 150 1160 4 4 4 103 264 3X10 16 LIBR 2.25 46 46 0.17 0.17 130 176 0.1 5 5 338 338 338 3310 3310 15 KIT 43 43 43 43 43 43 44 109 0.15 39 179 0.08 6 6 556 4410 Jun-18 0.17 r/a pressure r/a grille press. Loss adjusted pressure r/a DATE: 13 3.86 78 78 22.15 69 00.17 150 150 156 398 3398 FAM 1.91 39 1.91 61 61 0.17 31 110 141 0.12 5 11 1.91 39 39 1.91 61 61 0.17 21 90 111 0.15 5 5 10 MBR 1.79 36 36 55 55 0.17 41 220 261 0.07 5 3X10 0.6 0.05 0.2 0.35 0.18 0.03 0.15 a/c coil pressure available pressure for s/a & r/a furnace pressure furnace filter plenum pressure s/a max s/a dif press. loss min adjusted pressure s/a TYPE: TH-8C 6 2.56 52 52 2.38 76 0.17 160 186 0.09 6 4X10 8 985 30.771 32.01 5 BED-3 1.86 38 38 1.83 59 59 2.10 2.68 0.06 5 433 3X10 C Bas COOLING CFM TOTAL HEAT GAIN AIR FLOW RATE CFM 4 BED-2 2.19 2.19 4.4 4.4 4.4 5.4 5.4 5.4 5.4 6.0 6.0 8 4.1 4.1 4.1 0.0 D SITE NAME: ALCONA BUILDER: BAYVIEW WELLINGTON 0 0 5 noted otherwise on layout. 3 WIC 0.36 7 0.17 29 150 179 0.1 4 80 46 3X10 B otherwise on layout. ENS 0.93 19 0.80 26 0.17 47 160 207 0.08 4 218 298 3X10 B 985 48.567 20.28 MBR 1.79 36 1.72 55 0.17 38 190 228 0.08 5 5 404 404 404 4th 0 S/A diffusers 4"x10" unless S/A runs 5"Ø unless noted c HEATING CFM TOTAL HEAT LOSS AIR FLOW RATE CFM

ROOM NAME RM LOSS MBH. CFM PER RUN HEAT CFM PER RUN COOLING ADJUSTED PRESSURE EQUIVALENT LENGTH TOTAL EFFECTIVE LENGTH

RUN COUNT

RM GAIN MBH

HEATING VELOCITY (ft/min) COOLING VELOCITY (ft/min) OUTLET GRILL SIZE TRUNK

ADJUSTED PRESSURE

ROUND DUCT SIZE

ACTUAL DUCT LGH

	RUN#	ROOM NAME	RM LOSS MBH.	CFM PER RUN HEAT	RM GAIN MBH.	CFM PER RUN COOLING	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	
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TRUNK A		0.07	ι α	,	3	c	(Inimin)				PRESS.	DUCT	DUCT			(ft/min)		CFM	PRESS	DUCT	DUCT			(A/min)	
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AIR VOLUME	82	82	80	, <u>e</u>	, <u>S</u>	15.5	180	2 5	> <	> 0	> 0	o (0	0	0		TRUNKX	705	0.05	13.8	22	×	00	277	
PLENUM PRESSURE	0.15	0.15	0.15	0 15	0.15	2,0	- 0	045	ر د د	2 5	o ;	0;	0 ;	0	0	140	TRUNKY	280	0.05	9.8	12	: ×	- ∞	420	
ACTUAL DUCT LGH.	36	38	5	50	2 g	? ?	3 6	? .	 	<u></u>	CI.0	0.15	0.15	0.15	0.15	0.15	TRUNKZ	0	0.05	0	0	· ×	0	c	
EQUIVALENT LENGTH	165	185	185	205	185	3 8	172	‡ ç	c	(— (-	·	-		16	DROP	985	0.05	15.7	54	: ×	10	591	
TOTAL EFFECTIVE LH	201	223	236	264	224	2,5	2 5	27.0	> <	> •	۰ د	.	0	0	0	215									
ADJUSTED PRESSURE	0.07	0.07	90.0	0.0	007	200	200	477	_ {	_ {	٠,	- ;	- !	Ψ.		231									
ROUND DUCT SIZE	5.8	2.8	5.0	9 6	2 6	2.0	7.00	0,03	. 4.80 0	14.80	14.80	14.80	14.80	14.80	14.80	90.0									
INLET GRILL SIZE	œ	æ	8	<u>β</u> ∞	} œ	<u>.</u> 00	<u>.</u> ∝	∵ ∝	> 0	> c	> c	0 0	0 0	0 (0	7.2									
	×	×	×	×	×	×	×	> ×	> >	> >	> >	> >	> >	- ;	0;	∞ :									
INLET GRILL SIZE	14	14	14	14	14	77	; 7	: 5	< <	< 0	< 0	< •	Κ.	×	×	×									



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TYPE: SITE NAME: TH-8C

ALCONA

LO# 78877

RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

COMBUSTION APPLIANCES	0.22.2.4(4)	OUDD! TIETITAL				
	9.32.3.1(1)	SUPPLEMENTAL	VENTILATION CAPACITY			9.32.3.5
,		Total Ventilation Ca	apacity	169.6	_	cfm
b) Positive venting induced draft (except fireplaces)		Less Principal Vent	il. Capacity	79.5		cfm
c) Natural draft, B-vent or induced draft gas fireplace		Required Suppleme	ental Capacity	90.1	_	cfm
d) Solid Fuel (including fireplaces)						
e) No Combustion Appliances		PRINCIPAL EXHA	UST FAN CAPACITY			
		Model:	VANEE 65H	Location:		вѕмт
HEATING SYSTEM		79.5	cfm 3.0 sone	s	~	HVI Approved
Forced Air Non Forced Air		PRINCIPAL EXHAU	JST HEAT LOSS CALCULATION			
		СFM 79.5 CFM	ΔT °F X 83 F X	FACTOR 1.08		% LOSS
Electric Space Heat					X	0.25
		SUPPLEMENTAL F		NUTONE		
HOUSE TYPE	9.32.1(2)	Location ENS	Model QTXEN050C	cfm	HVI	Sones
	0.02(2)	BATH	QTXEN050C	50	1	0.3
Type a) or b) appliance only, no solid fuel	İ	5/(11)	Q1XEIN050C	50	+*+	0.3
II Type I except with solid fuel (including fireplaces)		W/R	QTXEN050C	50	1	0.3
, , , , , , , , , , , , , , , , , , ,		HEAT RECOVERY	VENTILATOR			9.32.3.11.
III Any Type c) appliance	1	Model:	VANEE 65H			
IV Type I, or II with electric space heat		155	_ cfm high	64	_	cfm low
Other: Type I, II or IV no forced air		75	% Sensible Efficiency @ 32 deg F (0 deg C)	11000	Y	HVI Approved
SYSTEM DESIGN OPTIONS		LOCATION OF INST	TALLATION	- Inches		
313 TEM DESIGN OF HORS	O.N.H.W.P.	Lot:		0		
1 Exhaust only/Forced Air System				Concession		
2 HRV with Ducting/Forced Air System		Township		Plan:		
HRV Simplified/connected to forced air system		Address				
		Roll#		Building Permi	it#	
4 HRV with Ducting/non forced air system		BUILDER:	BAYVIEW WELLINGTON			
Part 6 Design		Name:				
TOTAL VENTILATION CAPACITY						
TO THE VEHICLE OF SCHOOL STATES	9.32.3.3(1)	Address:				
Basement + Master Bedroom 2 @ 21.2 cfm 42.4	cfm	City:				
Other Bedrooms <u>3</u> @ 10.6 cfm <u>31.8</u>	cfm	Telephone #:	F	Fax #:		
Kitchen & Bathrooms <u>4</u> @ 10.6 cfm <u>42.4</u>	cfm	INSTALLING CONTR	RACTOR			
Other Rooms <u>5</u> @ 10.6 cfm <u>53.0</u>	cfm	Name:				
Table 9.32.3.A. TOTAL <u>169.6</u>	cfm	Address:				
PRINCIPAL VENTILATION CAPACITY REQUIRED	22244	City:				
•).32.3.4.(1)	Telephone #:	F	'ax #:		
1 Bedroom 31.8	cfm					
2 Bedroom 47.7	cfm		is ventilation system has been desi	gned		
3 Bedroom 63.6	cfm	in accordance with the Name:	Ontario Building Code. HVAC Designs Ltd.			
4 Bedroom 79.5	cfm	Signature:	Michael	Ofounda		
5 Bedroom 95.4	cfm	HRAI#		001820		
TOTAL 79.5 cfm		Date:	J	lune-18		
I REVIEW AND TAKE RESPONIBILITY FOR THE DESIGN WORK AND AM QUALIF	ED IN THE APPRO	PRIATE CATEGORY AS AN "C	OTHER DESIGNER" UNDER DIVISION C, 3.2	5 OF THE BUILD	ING CODE.	



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

HEAT LOSS AND GAIN SUMMARY SHEET

MODEL: TH-8C			
	100	BUILDER: BAYVIEW WELLING	TON
SFQT: 2453	LO# 78877	SITE: ALCONA	
DESIGN ASSUMPTIONS			
HEATING	°F	COOLING	°F
OUTDOOR DESIGN TEMP.	-11	OUTDOOR DESIGN TEMP.	•
INDOOR DESIGN TEMP.	72	INDOOR DESIGN TEMP. (MAX 75°F)	84
	72	INDOOR DESIGN TEIVIP. (IVIAX 75 F)	75
BUILDING DATA			
ATTACHMENT:	ATTACHED	# OF STORIES (+BASEMENT):	3
FRONT FACES:	SOUTH	ASSUMED (Y/N):	Υ
AIR CHANGES PER HOUR:	3.57	ASSUMED (Y/N):	Υ
AIR TIGHTNESS CATEGORY:	AVERAGE	ASSUMED (Y/N):	Υ
WIND EXPOSURE:	SHELTERED	ASSUMED (Y/N):	Υ
HOUSE VOLUME (ft³):	33177.0	ASSUMED (Y/N):	Υ
INTERNAL SHADING:	BLINDS/CURTAINS	ASSUMED OCCUPANTS:	5
INTERIOR LIGHTING LOAD (B	tu/h/ft²): 1.27	DC BRUSHLESS MOTOR (Y/N):	Υ
FOUNDATION CONFIGURATION	ON BCIN_1	DEPTH BELOW GRADE:	6.0 ft
LENGTH: 56.0 ft	WIDTH: 27.0 ft	EXPOSED PERIMETER:	135.0 ft

2012 OBC - COMPLIANCE PACKAGE		
	Compliand	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	Description
Soil Conductivity:	Normal	conductivity: dry sand, loam, clay
Water Table:	Normal	(7-10 m, 23-33 ft)
	Foundatio	on Dimensions
Floor Length (m):	17.1	
Floor Width (m):	8.2	
Exposed Perimeter (m):	41.1	
Wall Height (m):	2.7	
Depth Below Grade (m):	1.83	Insulation Configuration
Window Area (m²):	2.9	
Door Area (m²):	1.9	
	Radia	ant Slab
Heated Fraction of the Slab:	0	
Fluid Temperature (°C):	33	
	Desigr	n Months
Heating Month	1	
	Founda	tion Loads
Heating Load (Watts):		1385

TYPE: TH-8C **LO#** 78877

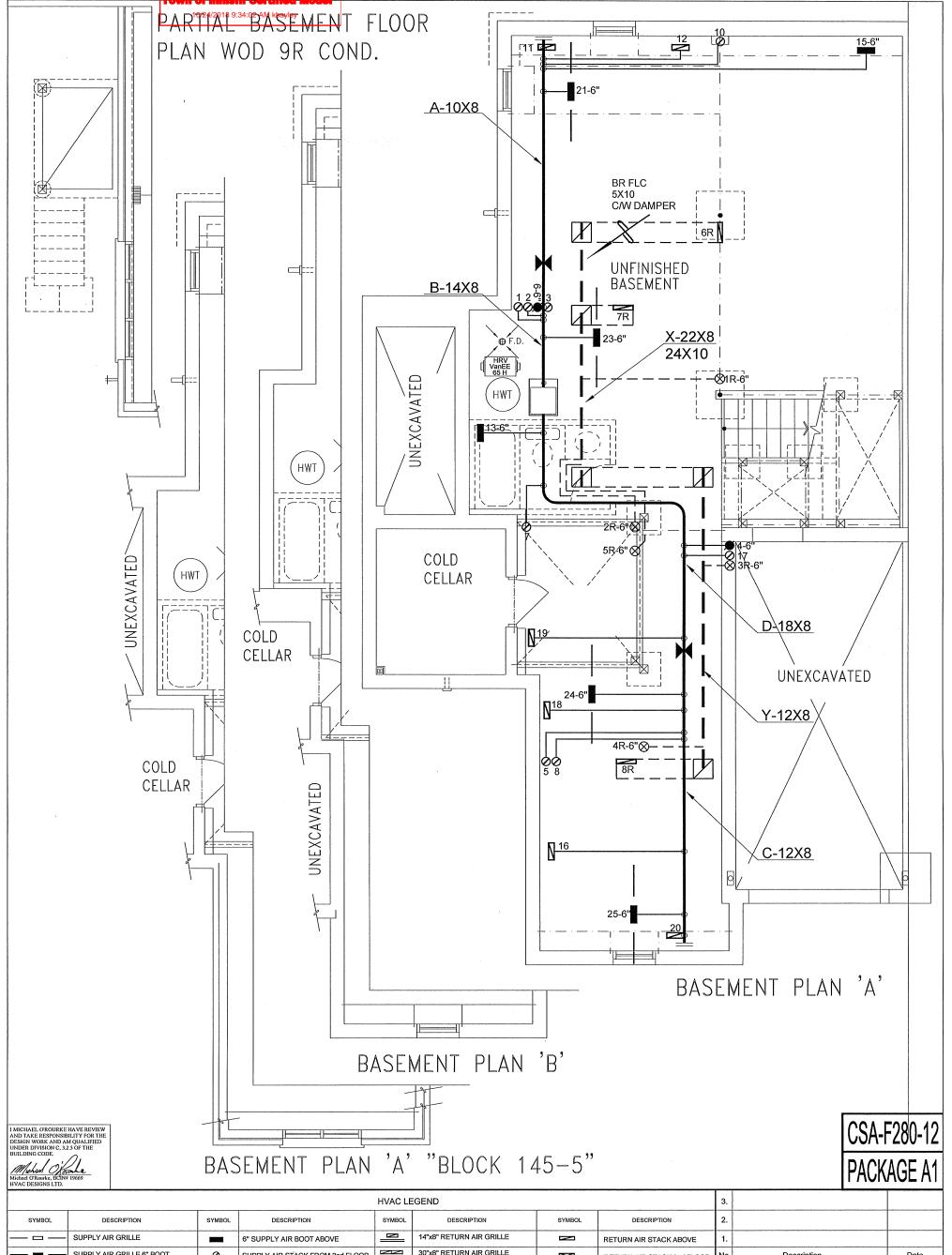


Air Infiltration Residential Load Calculator

Supplemental tool for CAN/CSA-F280

Weather Station	n De	scrip	tion				
Province:	Onta	rio					
Region:	Barr	ie					
Weather Station Location:	Opei	n flat te	errain,	grass			
Anemometer height (m):	10						
Local Sh		ng					
Building Site:		rban, f	orest				
Walls:	Heav	•					
Flue:	Heav	'Y					
Highest Ceiling Height (m):	6.71	•					
Building Cor	figur	ation					
Type:	Semi						
Number of Stories:	Two						
Foundation:	Full						
House Volume (m³):	939.5	5					
Air Leakage/	Venti	latior	า				
Air Tightness Type:	Prese	nt (19	61-) (3	.57 ACI	H)		
Custom BDT Data:	ELA @	2 10 Pa	a.		1252.3 cm ²		
	3.57				ACH @ 50 Pa		
Mechanical Ventilation (L/s):	Total Supply				Total Exhaust		
		37.5		37.5			
Flue S	ize						
Flue #:	#1	#2	#3	#4			
Diameter (mm):	0	0	0	0			
Natural Infiltr	ation	Rate	S				
Heating Air Leakage Rate (ACH/H):		0	.34	8			
Cooling Air Leakage Rate (ACH/H):		0	.07	7			

TYPE: TH-8C **LO#** 78877



				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		30"x8" RETURN AIR GRILLE	I	RETURN AIR STACK 2nd FLOOR	No.	Description	Date
	SUPPLY AIR BOOT ABOVE	.66	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

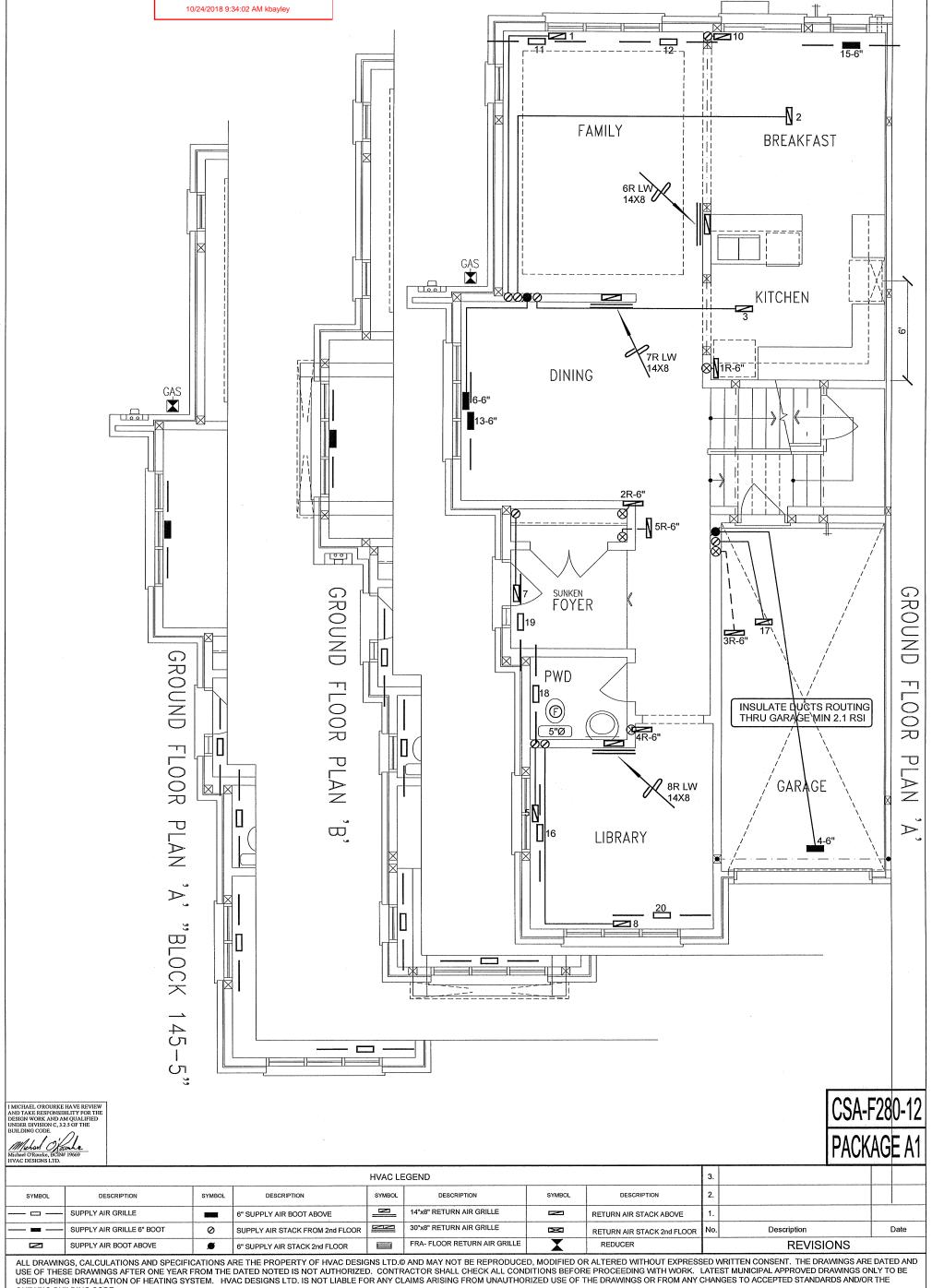
Specializing in Residential Mechanical Design Services

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.

									and the second section of the second section of
	HEAT LO	SS 50353	BTU/H	# OF RUNS	S/A	R/A	FANS	Sheet Title	
		NIT DATA		3RD FLOOR				BA	SEMENT
	MAKE L	ENNOX		2ND FLOOR	10	5	3		EATING
	MODEL EL196U	JH070XE36	3B	1ST FLOOR	8	3	2	L	.AYOUT
	INPUT	66	MBTU/H	BASEMENT	4	1	0	Date	JUNE/2018
_	OUTPUT		MBTU/H	ALL S/A DIFFUS	SERS	4 "x10)"	Scale 3	3/16" = 1'-0"
		63		UNLESS NOTE	D OTH	ERW	ISE	R	CIN# 19669
е	COOLING	2.5	TONS	ON LAYOUT. A				ال	
,	FAN SPEED	985	cfm @ 0.6" w.c.	UNLESS NOTE ON LAYOUT. U DOORS 1" min.	NDER	CUT	IOE	LO#	78877

TH-8C

2453 sqft



ONTARIO BUILDING CODE.

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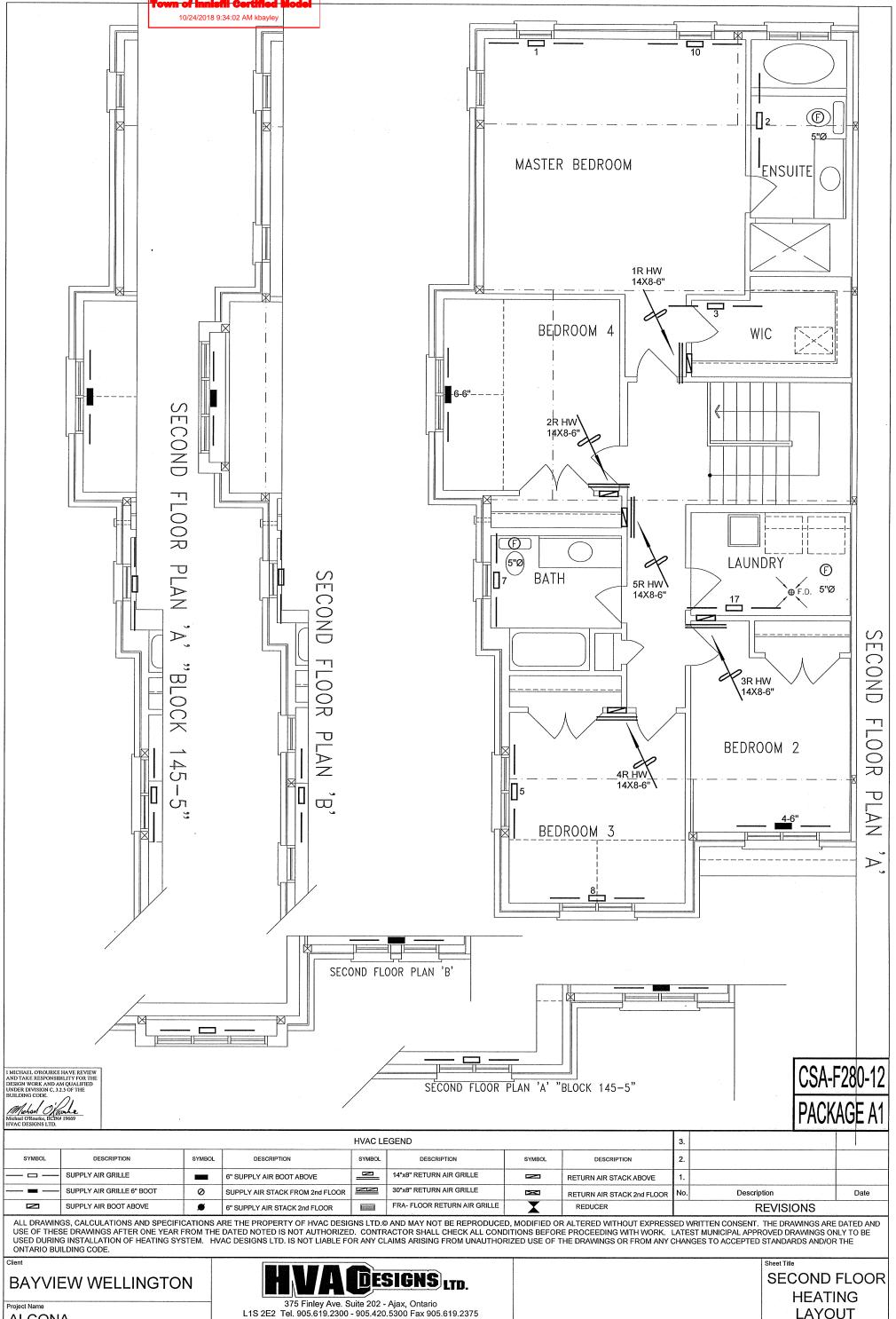
FIRST FLOOR **HEATING** LAYOUT

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

78877 LO#

TH-8C

2453 sqft



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