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 des	scription	
INNISFIL			·	
B. Individual who reviews and ta	ikes responsibility f	or design activities		
Name MICHAEL O'ROURKE		Firm		
Street address		HVAC DESIGNS LTD.	Unit no.	Lot/con.
375 FINLEY AVE			202	N/A
Municipality AJAX	Postal code L1S 2E2	Province	E-mail	
Telephone number	Fax number	ONTARIO	info@hvacdesigns.ca	
(905) 619-2300	(905) 619-2375		Cell number	
C. Design activities undertaken	⊠ HVAC □ Buildiı	C – House ng Services tion, Lighting and Pov	☐ Building☐ Plumbing ☐ Plumbingwer ☐ Plumbing	Structural g – House g – All Buildings
Description of designer's work HEAT LOSS / GAIN CALCULATIONS DUCT SIZING RESIDENTIAL MECHANICAL VENTIL RESIDENTIAL SYSTEM DESIGN per (D. Declaration of Designer)	ATION DESIGN SUMN	Model:	TH-5	Sewage Systems
	-			
MICHAEL O'ROURK	(print name)		declare that (choose	one as appropriate):
☐ I review and take responsible Division C, of the Building C classes/categories. Individual BCIN: Firm BCIN:	ility for the design work ode. I am qualified, and	on behalf of a firm register I the firm is registered, in th		of opriate
I review and take responsible designer" under subsection	lity for the design and a on 3.2.5.of Di visio	m qualified in the appropri on C, of the Building Code.	ate category as an "other	
Individual BCIN: Basis for exempt	19669 ion from registration an	d qualification:	O.B.C SENTENCE	3.2.4.1 (4)
☐ The design work is exempt Basis for exemption from reg	from the registrat gistration and qualificati	ion and qualification requir on:	ements of the Building Cod	e.
I certify that:				
 The information contain I have submitted this ap 	ed in this sched plication with the knowle	ule is true to the best of my edge and consent of the fir	v knowledge. m.	
June 14, 2018			Milehal OKa	unhe.
Date		•	Signatu	re of Designer
NOTE				

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.

TOTAL COMBINED HEAT LOSS BTU/H: 28796

STRUCTURAL HEAT LOSS: 27367

LOSS DUE TO VENTILATION LOAD BTU/H: 1429

TONS: 1.56

18771

TOTAL HEAT GAIN BTU/H:

10/23/2018 5:43:58 PM kbayley

CSA-F280-12 SB-12 PACKAGE A1 83 HEAT LOSS ∆T °F. HEAT GAIN ∆T °F. WINTER NATURAL AIR CHANGE RATE 0.348 SUMMER NATURAL AIR CHANGE RATE 0.077 104 156 0 0 0 0 0 0 0 5 = 0 0 BATH LOSS o 4 0 0 376 0.43 163 54 592 0.20 0 DATE: Jun-18 LO# 78873 GAIN 0 1338 1475 2914 0 240 456 2 BED-3 0 0 1455 126 LOSS 0.43 2086 GFA: 1720 1037 178 240 456 49 0 0 1390 2192 0.43 363 603 199 108 0.43 155 0.70 TYPE: TH-5 613 e3 LOSS 0.43 1010 0 0 0 704 305 0.20 GAIN 1306 62 0 480 456 2996 126 LOSS 0 0 1446 0.43 2073 BUILDER: BAYVIEW WELLINGTON
ROOM USE MB 0.20 0 0 98 0 0 0 GRS.WALL AREA LOSS GAIN 40.5 99.8 0.5 0.5 1.1 0.3 FACTORS SITE NAME: ALCONA 23.3 23.3 23.3 40.8 27.6 23.3 4.9 3.9 3.0 2.8 240 CLG. HT. EAST SOUTH WEST SKYLT. HEAT GAIN PEOPLE DOORS NET EXPOSED WALL NET EXPOSED BSMT WALL ABOVE GR EXPOSED CLG NO ATTIC EXPOSED CLG **EXPOSED FLOOR** SLAB ON GRADE HEAT LOSS SUBTOTAL HTLOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT GAIN DUCTLOSS HEAT GAIN APPLIANCE SAIGHTS TOTAL HT LOSS BTU/H BASEMENT/CRAWL HEAT LOSS **DUCT GAIN** TOTAL HT GAIN x 1.3 BTU/H

KOOM USE	KIT	NIA		
EXP. WALL	-			
1 2 2	77 :	•	-	
	 	o		
FACTORS				
GRS.WALL AREA LOSS GAIN	210			
GLAZING	LOSS GAIN	_	GAIN	NIVE
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EAST 23.3 40.5			200	0 0 0
SOUTH 23.3 23.9	, ,	, ,	280 487 0 0	0 0
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4.	0	108	0 0 0	
NO ATTIC EXPOSED CLG 3.0 1.1	0 0 0	0		
EXPOSED FLOOR 2.8 0.3	0 0 0		,,,	
BA SEMENT/CRAWL HEAT LOSS	0			
SLAB ON GRADE HEAT LOSS			-	2129
SUBTOTAL HTLOSS	2608		- ;	
SUB TOTAL HT GAIN	2555		1481	2930
LEVEL FACTOR / MUL TIPLIER	0.30 0.63		644	
AIR CHANGE HEATLOSS		£ 5	0.50 0.50	1.67
AIR CHANGE HEAT GAIN	420		928	
DUCTLOSS			- -	
DUCT GAIN	,		- ,	
HEAT GAIN PEOPLE 240				,
HEAT GAIN APPLIANCES/LIGHTS	4		- -	
TOTAL HT LOSS BTU/H	4246	155	2410	400 400
TOTAL HT GAIN x 1.3 BTU/H	5433	879	877	-



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HVVA DESIGNS 1110.

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			ŗ.														
	96 % 44.000 42,000	685 " E.S.P.	22	23	3 23	8	0.44	16	0.16 32	3 5	122	0 11		595	117	3X10	ш
	AFUE = 96 % INPUT (BTU/H) = 44,000 OUTPUT (BTU/H) = 42,000	DESIGN CFM = 685 CFM @ .6 " E.S.P.	JRE RISE_	22	3 23	<u>8</u>	0.44	16	0.7c	77	167	0	ı,	595	117	3X10	A
	INPUT	DESIG	TEMPERATURE RISE	21	3 23	2	0.44	9 2	0.10 13	5 5	143	0.11	2	595	117	3X10	⋖
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2		0 0 685 800		19	27	69	0.88	35	- o	5 5	129	0.11	2	202	235	3X10	മ
GFA: 1720	EL196UH045XE24B FAN SPEED	LOW MEDLOW MEDIUM MEDIUM HIGH	HIGH	17 1 ATIN	0.16	4	0.65	24	7.5	205	248	0.07	4	46	275	3X10	O
				15 TIX	2.12	53	2.72	100	. G	2 2	146	0.11	9	270	510	4X10	A
lun-18		0.17	0.15	47 T7	2.12	23	2.72	100	5 6	19	129	0.13	9	270	510	4X10	A
DATE: Jun-18		r/a grille press. Loss	adjusted pressure r/a														
	0.05	0.35 0.18 0.02	0.16	6 A	10.1	56	1.50	55	3 5	160	194	0.09	ა	191	404	3X10	A
TYPE: TH-5	furnace pressure furnace filter a/c coil pressure available pressure	or s/a & f/a plenum pressure s/a max s/a dif press. loss	min adjusted pressure s/a	7 8 BATH BED-3				6 54 0.17 0.17						172 191			СВ
	685 18.613 36.8	Bas 3		5 BED-3	1.04	56	1.46	54 0 17	09	155	215	0.08	2	191	396	3X10	a
GTON		1st 4 +		4 3ED-2										280			O
TE NAME: ALCONA BUILDER: BAYVIEW WELLINGTON	COOLING CFM TOTAL HEAT GAIN AIR FLOW RATE CFM	2nd 9	on layout	_∞ Ω	0.16	4	90.0	0.17	56	200	226	0.08	4	46	53	3X10	O
ALCONA SAYVIEW	Alf	0 0 grd	otherwise ise on lay	2 ENS	1.01	52	0.84	0.17	53	160	213	0.08	4	287	356	3X10	4
SITE NAME: ALCONA BUILDER: BAYVIEV	685 27,367 25.03	\$ 0 o	ss noted o	1 MBR	1.04	58	1.50	0.17	27	160	187	0.09	<u>ب</u>	191	404	3X10	A
SITE BU	HEATING CFM TOTAL HEAT LOSS AIR FLOW RATE CFM	RUN COUNT S/A R/A	All S/A runs 5"Ø unless noted otherwise on layou All S/A runs 5"Ø unless noted otherwise on layout.	ROOM NAME	RM LOSS MBH.	CFM PER RUN HEAT	CEM DEP BIN COO ING	ADJUSTED PRESSURE	ACTUAL DUCT LGH.	EQUIVALENT LENGTH	TOTAL EFFECTIVE LENGTH	ADJUSTED PRESSURE	ROUND DUCT SIZE	HEALING VELOCITY (II/min)	COOLING VELOCITY (filmin)	OUTLET GRILL SIZE	TRUNK

SUPPLY AIR TRUNK SIZE																	DETLIBN AID TRIINK SIZE	TOTINK	2175					
	TRUNK		TC ROUND		ECT			VELOCITY		TRUNK	STATIC	ROUND	RECT			VELOCITY		TRINK	STATIC	CMINO	BECT		>	YII OCITY
	S.F.	_	_		UCT			(ff/min)		CFM	PRESS	DHC	TOTAL			/ft/mins		, and	90000	1010	2 2			1
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RUN#
ROOM NAME
RA LOSS MBH.
CFM PER RUN HEAT
RM GAIN MBH.
CFM PER RUN COOLING
ADJUSTED PRESSURE
ACTUAL DUCT LGH.
EQUIMALENT LENGTH
TOTAL EFFECTIVE LENGTH

HEATING VELOCITY (fluin)
COOLING VELOCITY (fluin)
OUTLET GRILL SIZE
TRUNK

ADJUSTED PRESSURE ROUND DUCT SIZE

	-	ROW	SIMIL	KOUND	Z Z			VELOCITY			TRUNK	STATIC	ROUND	RECT		>	LOCITY	F		_	_	RECT		VELOCITY	CITY
		CFM	PRESS.	DUCT	DUCT			(ff/min)			CFM	PRESS	DUCT	DUCT			f/min1		•			Tollic		-(4)	1
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ACTUAL DUCT LGH		47	40	51	8	ά,	. ~		-		? +	5 ~	5. 4	2.	5.							- ;			
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TOTAL EFFECTIVE LI		222	240	216	263	138	· 	, —	•		·	, ~	· **	, +	> -		5 4								
ADJUSTED PRESSURE		0.07	90.0	0.07	0.00	0.11	14.80	14.80	14.80	_	14 RO	14.80	14 80	14.00	14 80		2 2								
ROUND DUCT SIZE		5.6	5.9	5.6	5.9	7.8	0	0			2	2	2	2	5 -	_	3 0								
INLET GRILL SIZE		œ	œ	œ	æ	ω	0	0	0	0	0	· c	· c	o c	o c	o c	g α								
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INLET GRILL SIZE		14	14	14	14	74	0	0	0		0	0	(C	: =	: c		< <u>7</u>								
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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

TYPE: SITE NAME: TH-5

ALCONA

78873

RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

COMBUSTION APPLIANCES	9.32.3.1(1)	SUPPLEMENTAL	VENTILATION CAPACITY	***************************************	9.32.3.5.
a) Direct vent (sealed combustion) only		Total Ventilation Ca	pacity	148.4	cfm
b) Positive venting induced draft (except fireplaces)		Less Principal Venti	I. Capacity	63.6	cfm
c) Natural draft, B-vent or induced draft gas fireplace		Required Suppleme	ntal Capacity	84.8	cfm
d) Solid Fuel (including fireplaces)					
e) No Combustion Appliances		PRINCIPAL EXHAL	JST FAN CAPACITY		
		Model:	VANEE 65H	Location:	BSMT
HEATING SYSTEM		63.6	cfmson	es	HVI Approved
Forced Air Non Forced Air			ST HEAT LOSS CALCULATION		
Electric Space Heat		63.6 CFM	ΔT °F X 83 F X	FACTOR 1.08	% LOSS X 0.25
Electric Space neat		SUPPLEMENTAL F	ANS	NUTONE	
HOUGE TYPE		Location	Model	cfm	HVI Sones
HOUSE TYPE	9.32.1(2)	ENS	QTXEN050C	50	✓ 0.3
✓ I Type a) or b) appliance only, no solid fuel		BATH	QTXEN050C	50	✓ 0.3
II Type I except with solid fuel (including fireplaces)		PWD	QTXEN050C	50	√ 0.3
III Any Type c) appliance		HEAT RECOVERY Model:	VENTILATOR VANEE 65H		9.32.3.11.
IV Type I, or II with electric space heat		155	cfm high	64	cfm low
71		75	% Sensible Efficiency		✓ HVI Approved
Other: Type I, II or IV no forced air			@ 32 deg F (0 deg C)		
SYSTEM DESIGN OPTIONS C	D.N.H.W.P.	LOCATION OF INST	FALLATION	***************************************	
		Lot:		Concession	
1 Exhaust only/Forced Air System					
2 HRV with Ducting/Forced Air System		Township	,	Plan:	
3 HRV Simplified/connected to forced air system		Address			
4 HRV with Ducting/non forced air system		Roll #		Building Permi	t #
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 2 @ 10.6 cfm 21.2	cfm	Telephone #:		Fax #:	
Kitchen & Bathrooms <u>4</u> @ 10.6 cfm <u>42.4</u>	cfm	INSTALLING CONTE	RACTOR		
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:			
	.32.3.4.(1)	Telephone #:		Fax #:	
1 Bedroom 31.8	cfm	DESIGNER CERTIFIC	CATION		
2 Bedroom 47.7	cfm	I hereby certify that the	ils ventilation system has been de e Ontario Building Code.	signed	
3 Bedroom 63.6	cfm	Name:	HVAC Designs Ltd.		
4 Bedroom 79.5	cfm	Signature:	Mehan	1 Ofounde	
5 Bedroom 95.4	cfm	HRAI#		001820	
TOTAL 63.6 cfm I REVIEW AND TAKE RESPONBILITY FOR THE DESIGN WORK AND AM QUALIF	IED IN THE APPE	Date:	OTHER DESIGNED JUNDER DIVISION OF	June-18	ING CODE
TREVIEW OF TAKE TEST CHISIET FOR THE DESIGN WORK AND AM QUALIT	LUM MEAPPR	O MAIL GAILGORI AS AN "	O ITTLE DESIGNER UNDER DIVISION C,	J.Z.O 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-5 SFQT: 1720	LO# 78873	BUILDER: BAYVIEW WELLING SITE: ALCONA	TON
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 75
ATTACHMENT:	ATTACHED	# OF STORIES (+BASEMENT):	3
FRONT FACES:	EAST	ASSUMED (Y/N):	Υ
AIR CHANGES PER HOUR:	3.57	ASSUMED (Y/N):	Y
AIR TIGHTNESS CATEGORY:	AVERAGE	ASSUMED (Y/N):	Y
WIND EXPOSURE:	SHELTERED	ASSUMED (Y/N):	Υ
HOUSE VOLUME (ft³):	23392.0	ASSUMED (Y/N):	Y
INTERNAL SHADING:	BLINDS/CURTAINS	ASSUMED OCCUPANTS:	4
INTERIOR LIGHTING LOAD (Btu/	h/ft²): 1.27	DC BRUSHLESS MOTOR (Y/N):	Y
FOUNDATION CONFIGURATION	BCIN_1	DEPTH BELOW GRADE:	6.0 ft
LENGTH: 46.0 ft	WIDTH: 21.0 ft	EXPOSED PERIMETER:	63.0 ft

2012 OBC - COMPLIANCE PACKAGE		
Component	Compliance	Package
	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



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

Residential Foundation Thermal Load Calculator

Supplemental tool for CAN/CSA-F280

W	eather Sta	ation Description
Province:	Ontario	
Region:	Barrie	
	Site D	Pescription Pescription
Soil Conductivity:	Normal	conductivity: dry sand, loam, clay
Water Table:	Normal	(7-10 m, 23-33 ft)
	Foundatio	on Dimensions
Floor Length (m):	14.0	
Floor Width (m):	6.4	
Exposed Perimeter (m):	19.2	
Wall Height (m):	2.7	
Depth Below Grade (m):	1.83	Insulation Configuration
Window Area (m²):	0.9	
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):		624

TYPE: TH-5 **LO#** 78873

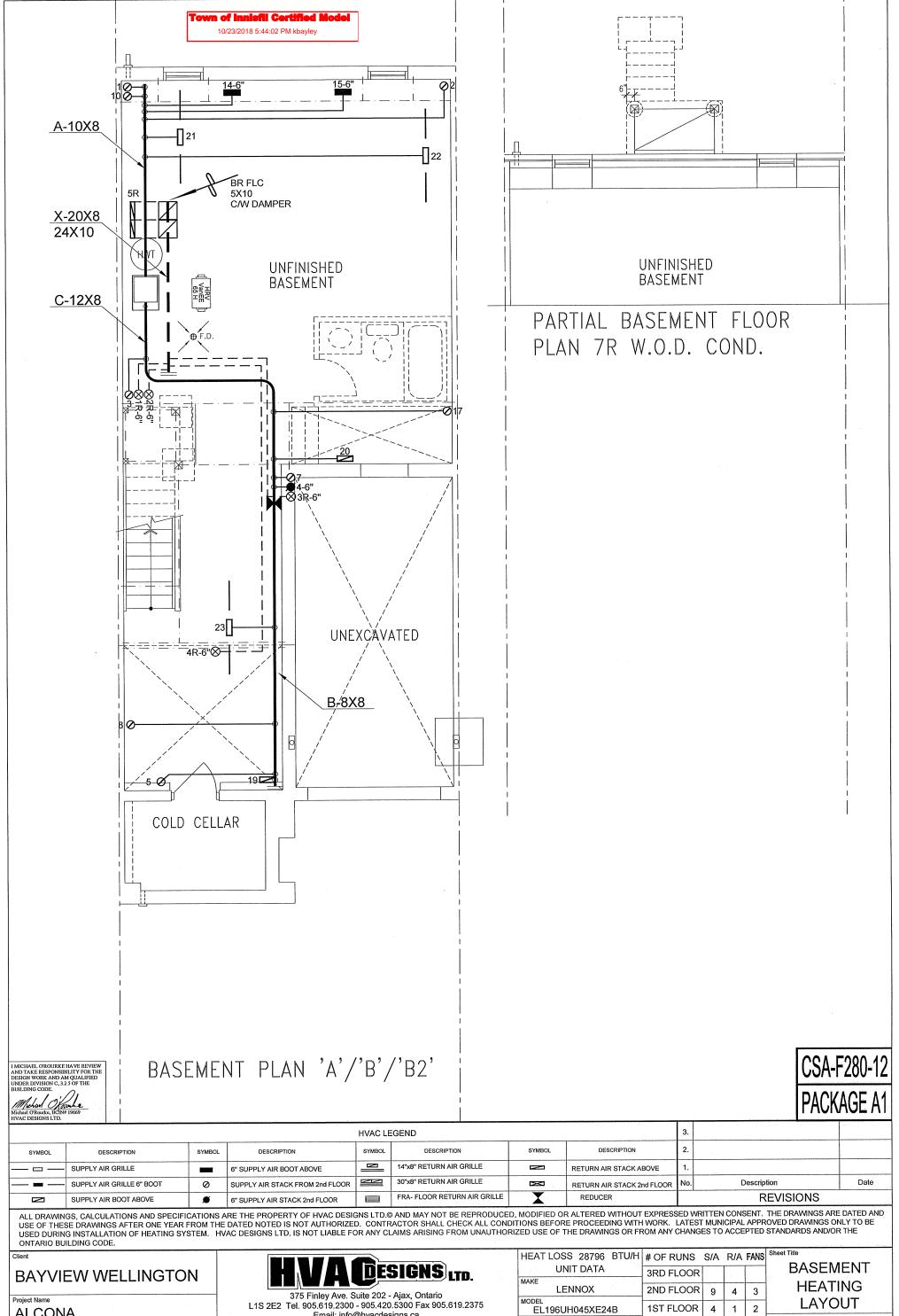
HVAC Designs Ltd. 375 Finley Ave, Suite 202 Ajax ON, L1S 2E2 905-619-2300

Air Infiltration Residential Load Calculator

Supplemental tool for CAN/CSA-F280

Wooth on Cto	: D-		, •		
Weather Sta			tion		
Province:	Onta				
Region:	Barri	е			
Weather Station Location:	Opei	n flat te	errain,	grass	
Anemometer height (m):	10				
Local	Shieldir	ng			
Building Site:	Subu	rban, f	orest		
Walls:	Heav	У			
Flue:	Heav	У			
Highest Ceiling Height (m):	6.71				
Building C	onfigur	ation			
Type:	Semi				
Number of Stories:	Two				
Foundation:	Full				
House Volume (m³):	662.4	ļ			
Air Leakago	e/Venti	latio	า		
Air Tightness Type:	Prese	nt (19	61-) (3	.57 ACI	H)
Custom BDT Data:	ELA @	2 10 Pa	э.		883.0 cm²
	3.57				ACH @ 50 Pa
Mechanical Ventilation (L/s):	To	tal Sup	ply		Total Exhaust
		30.0			30.0
Flu	e Size				
Flue #:	#1	#2	#3	#4	
Diameter (mm):	0	0	0	0	
Natural Infi	ltration	Rate	S		,
Heating Air Leakage Rate (ACH/H):	C	.34	8	
Cooling Air Leakage Rate (ACH/H)) :	0	.07	7	

TYPE: TH-5 **LO#** 78873



ALCONA INNISFIL, ONTARIO

TH-5

1720 sqft

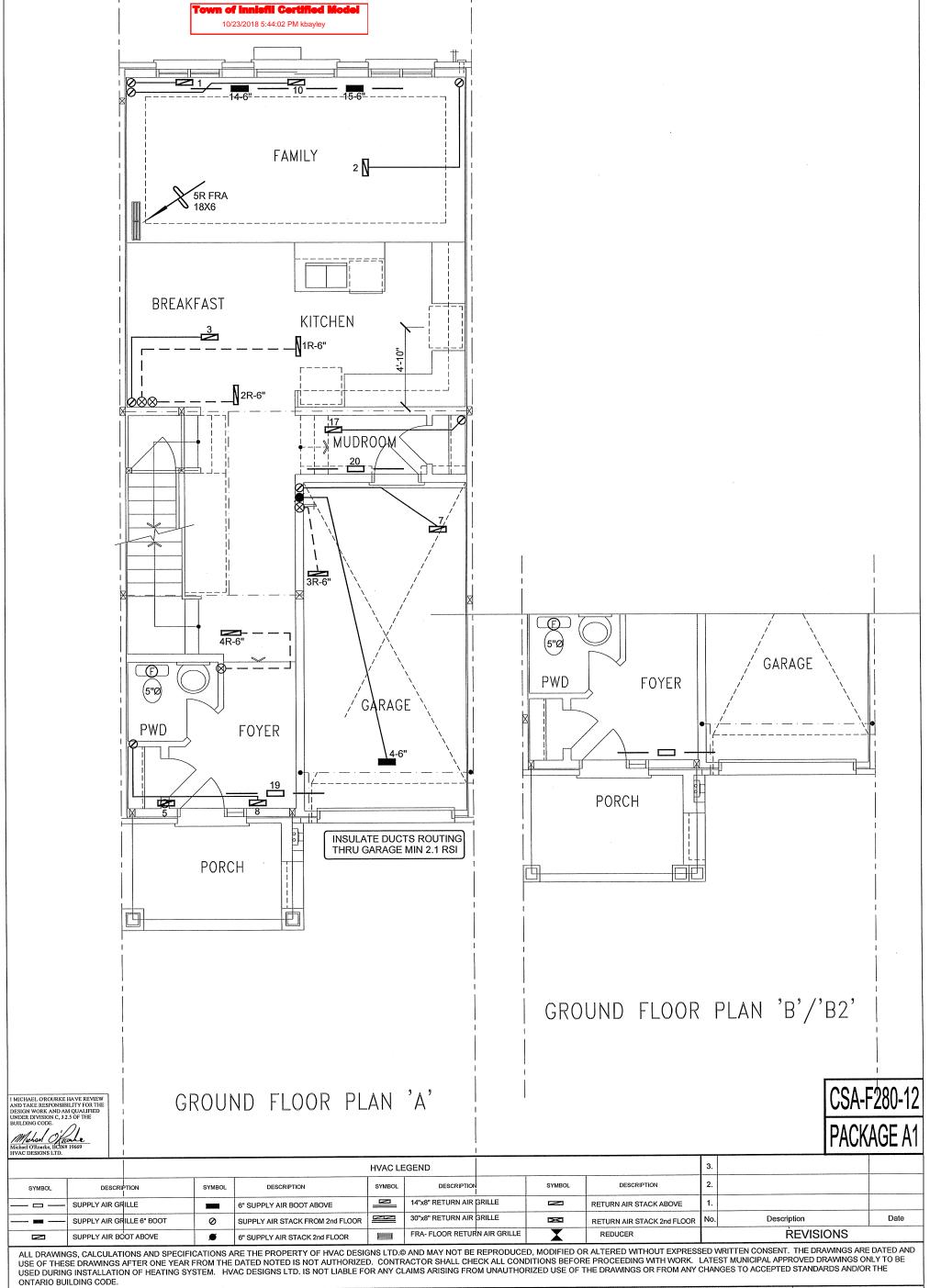
Email: info@hvacdesigns.ca Web: www.hvacdesigns.ca

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.

								ليفور وريان الماسية لا يريون التفور وريان الماسية لا يريون
	HEAT LOSS 287	96 BTU/H	# OF RUNS	S/A	R/A	FAÑS	Sheet Title	
	UNIT DA	TA	3RD FLOOR	·			BA	SEMENT
	MAKE LENNOX		2ND FLOOR	9	4	3	1	IEATING
	MODEL EL196UH045X	(E24B	1ST FLOOR	4	1	2	L	LAYOUT
	INPUT 44	мвти/н	BASEMENT	3	1	0	Date	JUNE/2018
-	OUTPUT	MBTU/H	ALL S/A DIFFU	SERS	4 "x10)"	Scale	3/16" = 1'-0"
	42 cooling		UNLESS NOTE ON LAYOUT. A				В	CIN# 19669
Э	1.5	TONS	UNLESS NOTE	D OT	HERW			70070
	FAN SPEED 685	cfm @ 0.6" w.c.	ON LAYOUT. U DOORS 1" min.				LO#	78873



Client

BAYVIEW WELLINGTON

Project Name ALCONA INNISFIL, ONTARIO

HVA 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.

heet Title FIRST FLOOR

HEATING LAYOUT

JUNE/2018

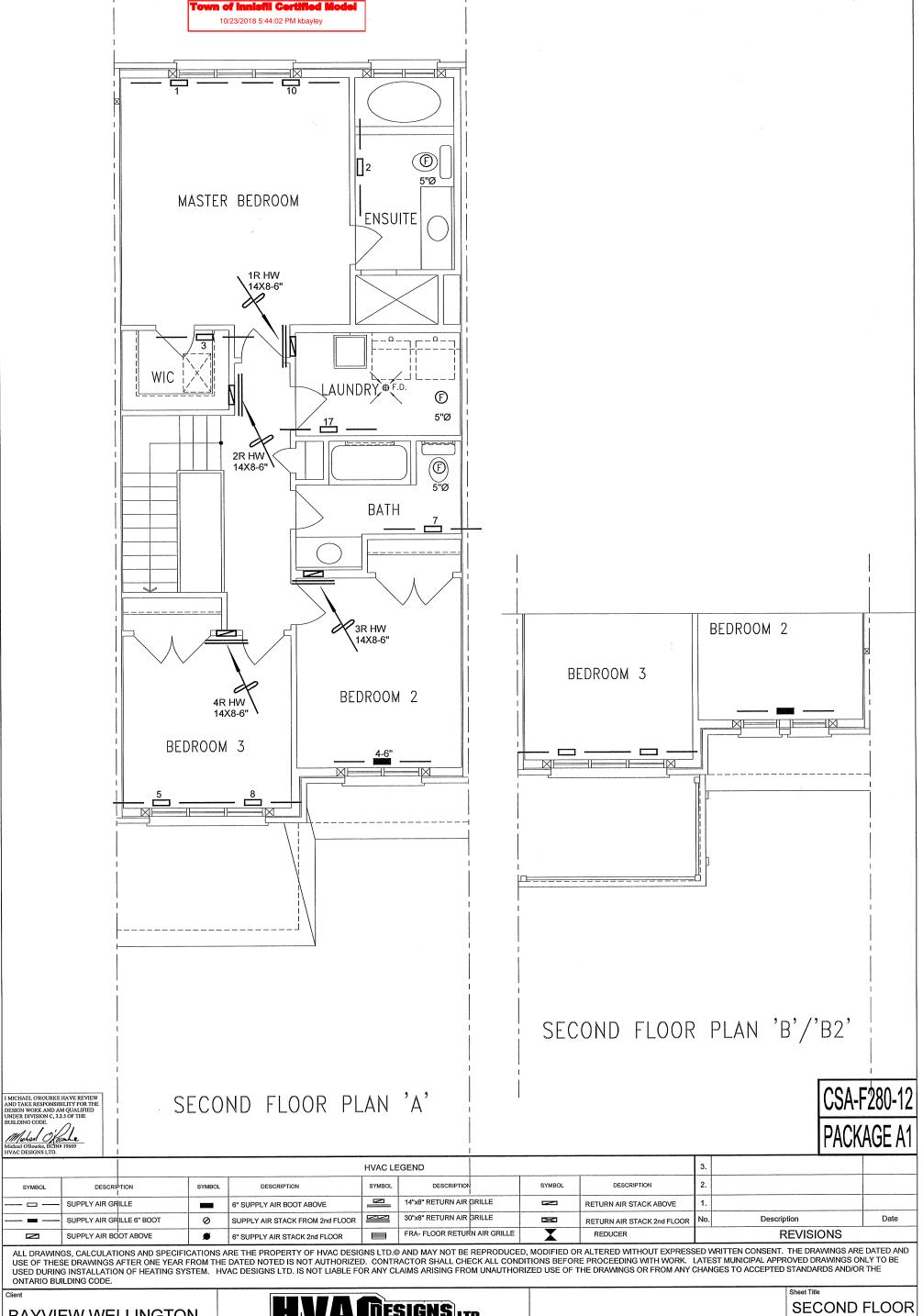
Scale 3/16" = 1'-0"

BCIN# 19669

LO# 78873

TH-5 17

1720 sqft



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HEATING LAYOUT

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

78873 LO#

TH-5

1720 sqft