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	D. Lot/con.
Municipality	Postal code	Plan number/ other des	orintion	
INNISFIL	1. 3314. 3343	i lan namben other des	Cription	
B. Individual who reviews and takes	responsibility f	or design activities		
Name	reeperiorsing 1	Firm		
MICHAEL O'ROURKE		HVAC DESIGNS LTD.		
Street address 375 FINLEY AVE			Unit no.	Lot/con.
Municipality	Postal code	Desites	202	N/A
AJAX	L1S 2E2	Province ONTARIO	E-mail info@hvacdesigns.ca	
Telephone number	Fax number		Cell number	
(905) 619-2300	(905) 619-2375		()	
C. Design activities undertaken by in	⊥ dividual identifi	ed in Section B. (Build	ing Code Table 3 5 3	210E Division 61
		ou in Georgia D. [Duna	ing Code Table 3.3.2	ET OF DIVISION CJ
☐ House		C – House	☐ Buildir	ng Structural
☐ Small Buildings ☐ Large Buildings	☐ Buildir	ng Services	☐ Plumb	ing – House
☐ Complex Buildings	☐ Fire P	tion, Lighting and Pov		ing – All Buildings e Sewage Systems
Description of designer's work		Model:		- Cowage Systems
HEAT LOSS / GAIN CALCULATIONS		illouen.	111-126	
DUCT SIZING	N 55010N 0111			
RESIDENTIAL MECHANICAL VENTILATIO RESIDENTIAL SYSTEM DESIGN per CSA-		Project:	ALCONA	
D. Declaration of Designer	. 200 12			
I MICHAEL O'ROURKE				
	int name)		declare that (choo	se one as appropriate):
□ I review and take responsibility fo Division C, of the Building Code. classes/categories.	or the design work I am qualified, and	on behalf of a firm registere the firm is registered, in th		.4.of ppropriate
Individual BCIN: Firm BCIN:			-	
I review and take responsibility fo designer" under subsection 3.2	r the design and a 2.5.of Di visio	m qualified in the appropria on C, of the Building Code.	ate category as an "other	r
Individual BCIN:	19669			
Basis for exemption from	om registration and	d qualification:	O.B.C SENTENCE	3.2.4.1 (4)
The design work is exempt Basis for exemption from registrate	from the registrat tion and qualification	ion and qualification require	ements of the Building C	Code.
I certify that:				
The information contained I have submitted this applicat	in this sched ion with the knowle	ule is true to the best of my edge and consent of the fin	knowledge. m.	
June 14, 2018			Michael Ox	Touche.
Date		•	Sign	ature of Designer
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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•

SITE NAME: ALCONA

Millehand C	URAL HEATLOSS: 40675
Winde.	TOTAL COMBINED HEAT LOSS BTU/H: 42461

STRUCTURAL HEAT LOSS: 40675

LOSS DUE TO VENTILATION LOAD BTU/H: 1786

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.

																						_		_		_				_	
TOTAL HEAT GAIN BTU/H:		TOTAL HT GAIN x 1.3 BTU/H	TOTAL HT LOSS BTUIN	HEAT GAIN APPLIANCE S/LIGHTS	HEAT GAIN PEOPLE	DUCT GAIN	DUCTLOSS	AIR CHANGE HEAT GAIN	AIR CHANGE HEAT LOSS	LEVEL FACTOR / MULTIPLIER	SUB TOTAL HT GAIN	SUBTOTAL HT LOSS	SLAB ON GRADE HEAT LOSS	BASEMENT/CRAWL HEAT LOSS	_			_	NET EXPOSED WALL	DOORS	SKYLT.	WEST			NORTH	GLAZING	GRS.WALL AREA LOSS GAIN	71	CLG. HT.	EXP. WALL	ROOMUSE
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SR-19 BACKAGE A1		SUMMER NATURAL AIR CHANGE RATE 0.090	SUMME			LO# 78882	LQ#		GFA: 1996	GFA:				TYPE: TH-12E	TYPE			S	LLING	A MAIL	K: BAY	BOILDER: BAYVIEW WELLINGTON	_
CSA-F280-12	HEAT LOSS AT °F. 83	WINTER NATURAL AIR CHANGE RATE 0.348	WINTE			DA TE: Jun-18	DA TE											•		SNA NA	E: ALC	SITE NAME: ALCONA	

DATE: Jun-18	
GFA:	
GFA: 1996	
LO#	
LO# 78882	Web: www.hvacdesigns.ca E-mail: info@hvacdesigns.ca

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

HV/ADESIGNS1110.

HEATING CFM 985
TOTAL HEAT LOSS 40,675
AIR FLOW RATE CFM 24.22

COOLING CFM 985
TOTAL HEAT GAIN 24.309
AIR FLOW RATE CFM 40.52

TYPE: TH-12E furnace pressure furnace filter a/c coil pressure available pressure

SITE NAME: ALCONA BUILDER: BAYVIEW WELLINGTON

RETURN AIR # AIR VOLUME PLENUM PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH TOTAL EFFECTIVE LH ADJUSTED PRESSURE ROUND DUCT SIZE INLET GRILL SIZE INLET GRILL SIZE	SUPPLY AIR TRUNK SIZE TRUNK A TRUNK B TRUNK C TRUNK D TRUNK C TRUNK C	ROUN # ROOM NAME RM LOSS MBH. CFM PER RUN LOOLING ADJUSTED PRESSURE ACTUAL DUCT LGH. TOTAL EFFECTIVE LENGTH ADJUSTED PRESSURE ACTUAL DUCT GET TOTAL EFFECTIVE LENGTH ADJUSTED PRESSURE ROUND DUCT SIZE HEATING VELOCITY (ffmin) COOLING VELOCITY (ffmin) OUTLET GRILL SIZE TRUNK	ROOM NAME MBR ENS WIC BED RAIL OSS MBH. 1.44 0.93 0.11 2.11 CFM PER RUN HEAT 35 23 3.53 RM GARN MBH. 1.63 0.89 0.05 2.77 RM CAN MBH. 1.63 0.89 0.05 2.77 CFM PER RUN COOLING 66 36 2 100 ADJUSTED PRESSURE 0.17 0.17 0.17 0.11 ACTUAL DUCT LGH. 62 47 37 49 EQUIVALENT LENGTH 180 170 155 172 TOTAL EFFECTIVE LENGTH 242 217 192 224 ADJUSTED PRESSURE 0.07 0.08 0.09 0.01 ROUND DUCT SIZE 5 4 6 HEATING VELOCITY (Ithini) 257 264 34 270 COOLING VELOCITY (Ithini) 485 413 23 556 0UTLET GRILL SIZE 3X10 3X10 3X10 4X11 TRUNK A B B	TOTAL HEAT LOSS AIR FLOW RATE CFM RUN COUNT S/A R/A All S/A diffusers 4"x10" unless note RINA All S/A runs 5"Ø unless note
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7 0 0 0 0 0 0 0 0			23 BAS 4.42 107 0.49 20 0.15 12 160 172 0.09 6 6 5 6 5 6 102 4X10	AFUE = 96 % (BTU/H) = 66,000 (BTU/H) = 63,000 3N CFM = 985 CFM @ 6" E.S.P. JRE RISE
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10/26/2018 10:03:26 AM kbayley

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-12E ALCONA LO# 78882

RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

COMBUSTION APPLIANCES	9.32.3.1(1)	SUPPLEMENTAL VE	NTILATION CAPACITY			9.32.3.5.
a) Virect vent (sealed combustion) only		Total Ventilation Capac	city	148.4	_	cfm
b) Positive venting induced draft (except fireplaces)		Less Principal Ventil. C	apacity	79.5	_	cfm
c) Natural draft, B-vent or induced draft gas fireplace		Required Supplemental	l Capacity	68.9	_	cfm
d) Solid Fuel (including fireplaces)						
e) No Combustion Appliances		PRINCIPAL EXHAUST	FAN CAPACITY			
		Model:	VANEE 65H	Location:		BSMT
HEATING SYSTEM		79.5	:fm <u>3.0</u> so	nes	√	HVI Approved
Forced Air Non Forced Air		PRINCIPAL EXHAUST	HEAT LOSS CALCULATIO)N		
		CFM	ΔT °F	FACTOR		% LOSS
Electric Space Heat		79.5 CFM	X 83F >	(1.08	X	0.25
		SUPPLEMENTAL FAN	IS	NUTONE		
HOUSE TYPE		Location	Model	cfm	HVI	Sones
NOUSE TIPE	9.32.1(2)	ENS BATH	QTXEN050C	50	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0.3
Type a) or b) appliance only, no solid fuel		LAUN	QTXEN050C QTXEN050C	50 50	V	0.3
	ĺ	W/R	QTXEN050C	50	7	0.3
II Type I except with solid fuel (including fireplaces)						
III Any Type c) appliance		HEAT RECOVERY VEI Model:				9.32.3.11.
		155	VANEE 65H cfm high	64		cfm low
IV Type I, or II with electric space heat			-		-	CIIII IOW
Other: Type I, II or IV no forced air		75	% Sensible Efficiency		4	HVI Approved
Other: Type 1, 17 of 14 flo folded all			@ 32 deg F (0 deg C)	· · · · · · · · · · · · · · · · · · ·		
		LOCATION OF INSTAL	LATION			
SYSTEM DESIGN OPTIONS O	N.H.W.P.					
1 Exhaust only/Forced Air System		Lot:		Concession		
, , , , , , , , , , , , , , , , , , , ,		Township		Plan:		
2 HRV with Ducting/Forced Air System						
✓ 3 HRV Simplified/connected to forced air system		Address				
		Roll#		Building Permi	##	
4 HRV with Ducting/non forced air system						
Part 6 Design		BUILDER:	BAYVIEW WELLINGTO	Ν		
		Name:				
TOTAL VENTILATION CAPACITY	9.32.3.3(1)	Address:				
Basement + Master Bedroom 2 @ 21.2 cfm 42.4	cfm	City:				
Other Bedrooms3_ @ 10.6 cfm31.8	cfm	Telephone #:		F#-		
Kitchen & Bathrooms 4 @ 10.6 cfm 42.4	cfm	INSTALLING CONTRAC	2708	Fax #:		
			- I - I			
Other Rooms 3 @ 10.6 cfm 31.8	cfm	Name:		-		
Table 9.32.3.A. TOTAL 148.4	cfm	Address:		***************************************		
		City:				
PRINCIPAL VENTILATION CAPACITY REQUIRED 9.	32.3.4.(1)	Tolonhone #		- "		
1 Bedroom 31.8	cfm	Telephone #:		Fax #:		
2 Padrami		DESIGNER CERTIFICA			363-A12-11	
2 Bedroom 47.7	cfm	I hereby certify that this v	entilation system has been d	esigned		
3 Bedroom 63.6	cfm	in accordance with the O Name:	ntario Building Code. HVAC Designs Ltd.			
4 Bedroom 79,5	cfm	Signature:		of Offenha		
		- 9.00.00	III feeka	ed Mounte		
5 Bedroom 95.4	cfm	HRAI#		001820		
TOTAL 79.5 cfm I REVIEW AND TAKE RESPONIBILITY FOR THE DESIGN WORK AND AM QUALIFI		Date:		June-18		
I REVIEW AND TARE RESPONDILLET FOR THE DESIGN WORK AND AM QUALIFI	CUIN THE APPR	COPRIATE CATEGORY AS AN "OTH	ER DESIGNER" UNDER DIVISION C.	3.2.5 OF THE BUILD	NG COD	E





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: SFQT:	TH-12E 1996	LO# 78882	BUILDER: BAYVIEW WELLINGTO SITE: ALCONA	DN
DESIGN A	SSUMPTIONS			
	DESIGN TEMP. ESIGN TEMP. DATA	°F -11 72	COOLING OUTDOOR DESIGN TEMP. INDOOR DESIGN TEMP. (MAX 75°F)	°F · 84 72
ATTACHM	ENT:	ATTACHED	# OF STORIES (+BASEMENT):	3
FRONT FAC	CES:	EAST	ASSUMED (Y/N):	Y
AIR CHANG	SES PER HOUR:	3.57	ASSUMED (Y/N):	Υ
AIR TIGHT	NESS CATEGORY:	AVERAGE	ASSUMED (Y/N):	Υ
WIND EXP	OSURE:	SHELTERED	ASSUMED (Y/N):	Y
HOUSE VO	LUME (ft³):	26854.0	ASSUMED (Y/N):	Υ
INTERNAL	SHADING:	BLINDS/CURTAINS	ASSUMED OCCUPANTS:	5
INTERIOR L	IGHTING LOAD (Btu/h	/ft²): 1.27	DC BRUSHLESS MOTOR (Y/N):	Υ
FOUNDATIO	ON CONFIGURATION	BCIN_1	DEPTH BELOW GRADE:	6.0 ft
LENGTH:	57.0 ft	WIDTH: 21.0 ft	EXPOSED PERIMETER:	129.0 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





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	escription escription
Soil Conductivity:	Normal	conductivity: dry sand, loam, clay
Water Table:	Normal	(7-10 m, 23-33 ft)
	Foundatio	on Dimensions
Floor Length (m):	17.4	
Floor Width (m):	6.4	
Exposed Perimeter (m):	39.3	
Wall Height (m):	2.7	
Depth Below Grade (m):	1.83	Insulation Configuration
Window Area (m²):	1.2	
Door Area (m²):	0.0	
	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):		1318

TYPE: TH-12E **LO#** 78882



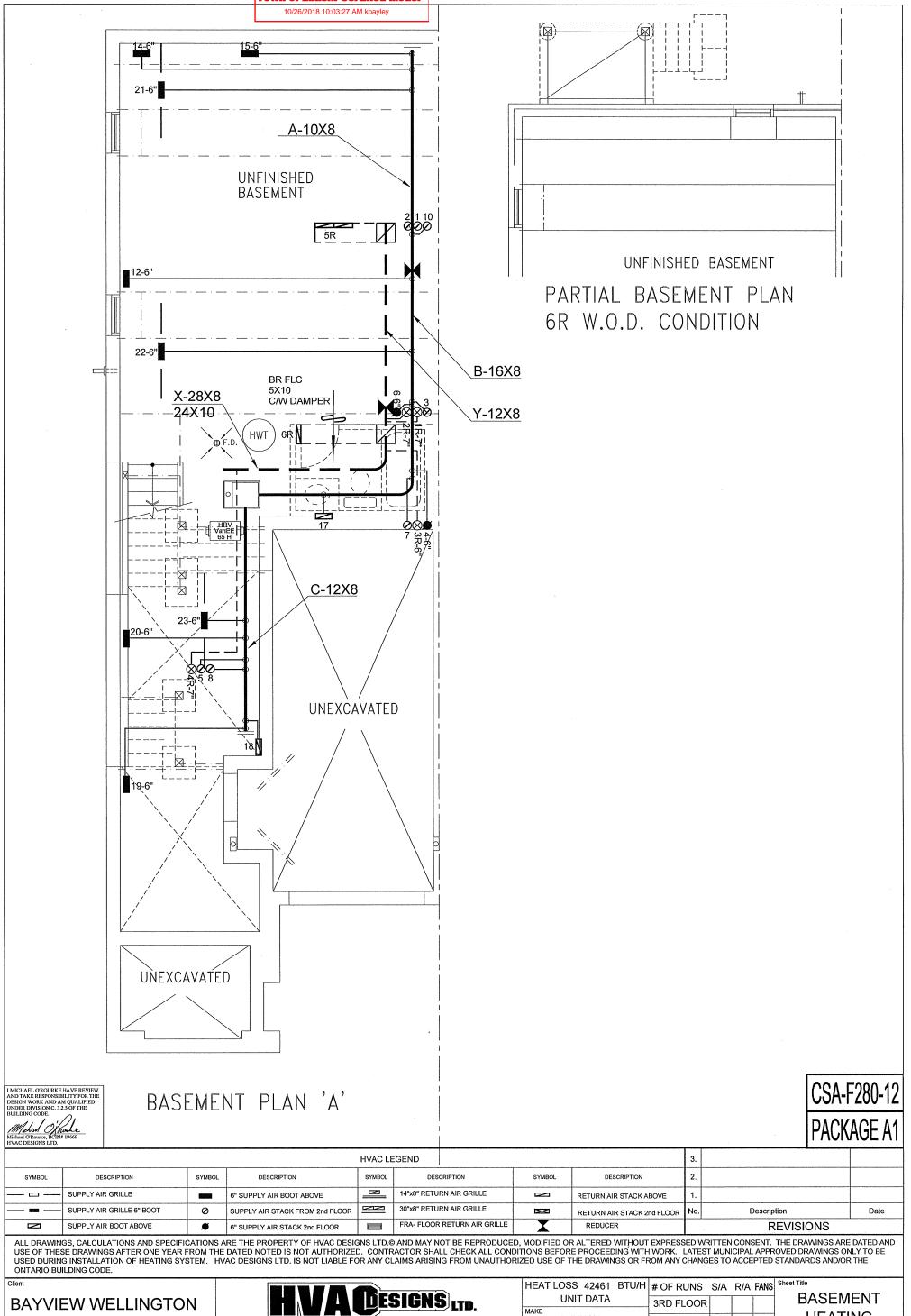
HVAC Designs Ltd. 375 Finley Ave, Suite 202 Ajax ON, L1S 2E2 905-619-2300

Air Infiltration Residential Load Calculator

Supplemental tool for CAN/CSA-F280

Weather Sta	tion De	script	tion						
Province:	Onta	rio							
Region:	Barri	e							
Weather Station Location:	Oper	n flat te	errain,	grass					
Anemometer height (m):	10								
Local	Shieldin	g							
Building Site:	Subu	rban, f	orest						
Walls:	Heav								
Flue:	Heav	У							
Highest Ceiling Height (m):	6.71								
Building C	onfigur	ation							
Type:	Semi								
Number of Stories:	Two								
Foundation:	Full								
House Volume (m³):	760.4	ļ							
Air Leakago	e/Venti	lation	า						
Air Tightness Type:	Prese	nt (19	61-) (3.	.57 ACI	H)				
Custom BDT Data:	ELA @	9 10 Pa	a.		1013.7 cm²				
	3.57				ACH @ 50 Pa				
Mechanical Ventilation (L/s):	To	tal Sup	ply		Total Exhaust				
		37.5			37.5				
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):	O	.34	8					
Cooling Air Leakage Rate (ACH/H)):	0	.09	0					

TYPE: TH-12E **LO#** 78882



Project Name **ALCONA** INNISFIL, ONTARIO

TH-12E

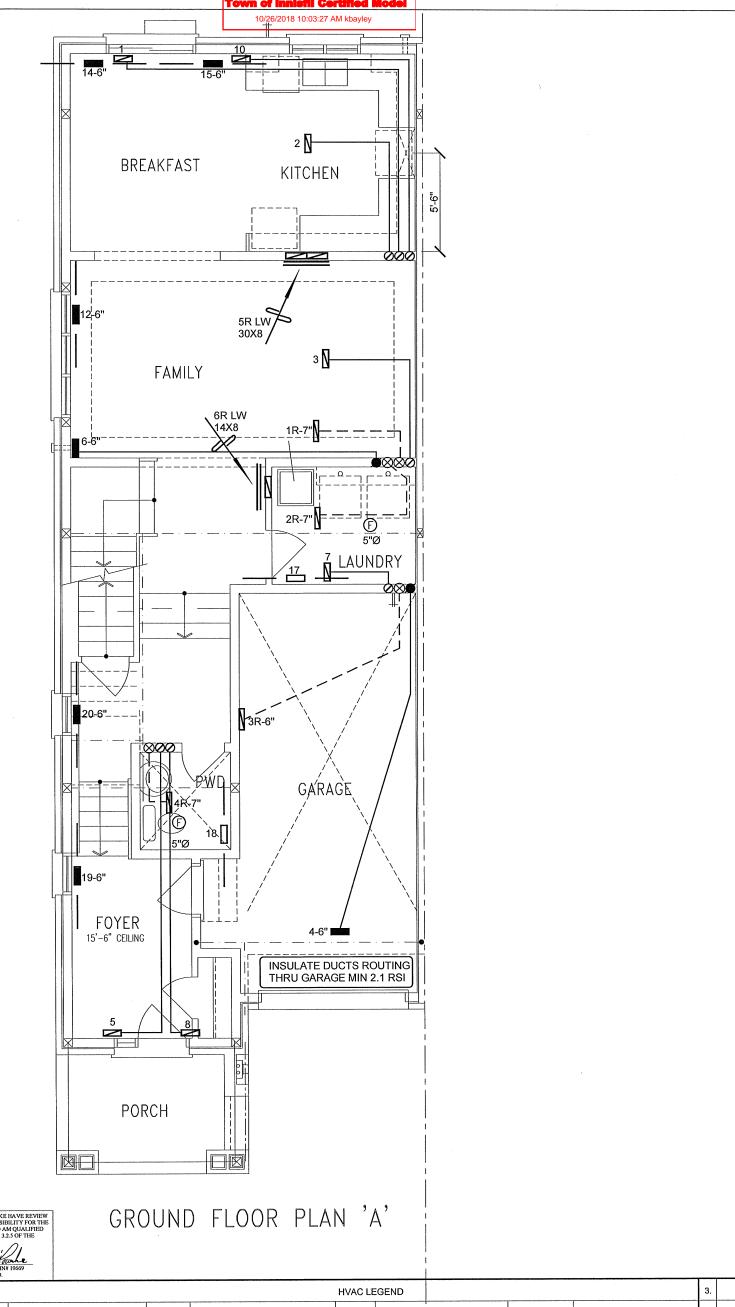
375 Finley Ave. Suite 202 - Ajax, Ontario L1S 2E2 Tel. 905.619.2300 - 905.420.5300 Fax 905.619.2375 Email: info@hvacdesigns.ca Web: www.hvacdesigns.ca

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. 1996 sqft

	HEAT LOS	SS 42461	BTU/H	# OF RUNS	S/A	R/A	FANS	Sheet Title			
-	UNIT DATA		3RD FLOOR		<u> </u>		BASEMENT				
Ì	MAKE			ONDILOGIC				LIFATING			
	LE	ENNOX	2ND FLOOR	9	4	2	Н	EATING			
	MODEL EL196U	JH070XE3	6B	1ST FLOOR	7	2	3	LAYOUT			
	INPUT	66	мвти/н	BASEMENT	1	0	Date JUNE/2018				
-	OUTPUT		MBTU/H	ALL S/A DIFFUS	SERS	4 "x10	,"	Scale 3/16" = 1'-0"			
		63		UNLESS NOTE				DOIN# 40000			
	COOLING		TONS	ON LAYOUT. A	LL S/A	RUN	S 5"Ø	BCIN# 19669			
1		2.0	10110	UNLESS NOTE	D OTH	HERW	ISE		70000		
	FAN SPEED	985	cfm @ 0.6" w.c.	ON LAYOUT. UNDERCUT DOORS 1" min. FOR R/A				LO#	78882		
,		2.0		ON LAYOUT. AT UNLESS NOTE ON LAYOUT. U	LL S/A D OTI NDER	RUN: HERW CUT	S 5"Ø	LO#	78882		



CSA-F280-12 PACKAGE A1

	HVAC LEGEND							3.		
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	2.		
	— SUPPLY AIR GRILLE 6" SUPPLY AIR BOOT ABOVE		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	×	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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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.

BCIN# 19669 LO#

Sheet Title

78882

FIRST FLOOR

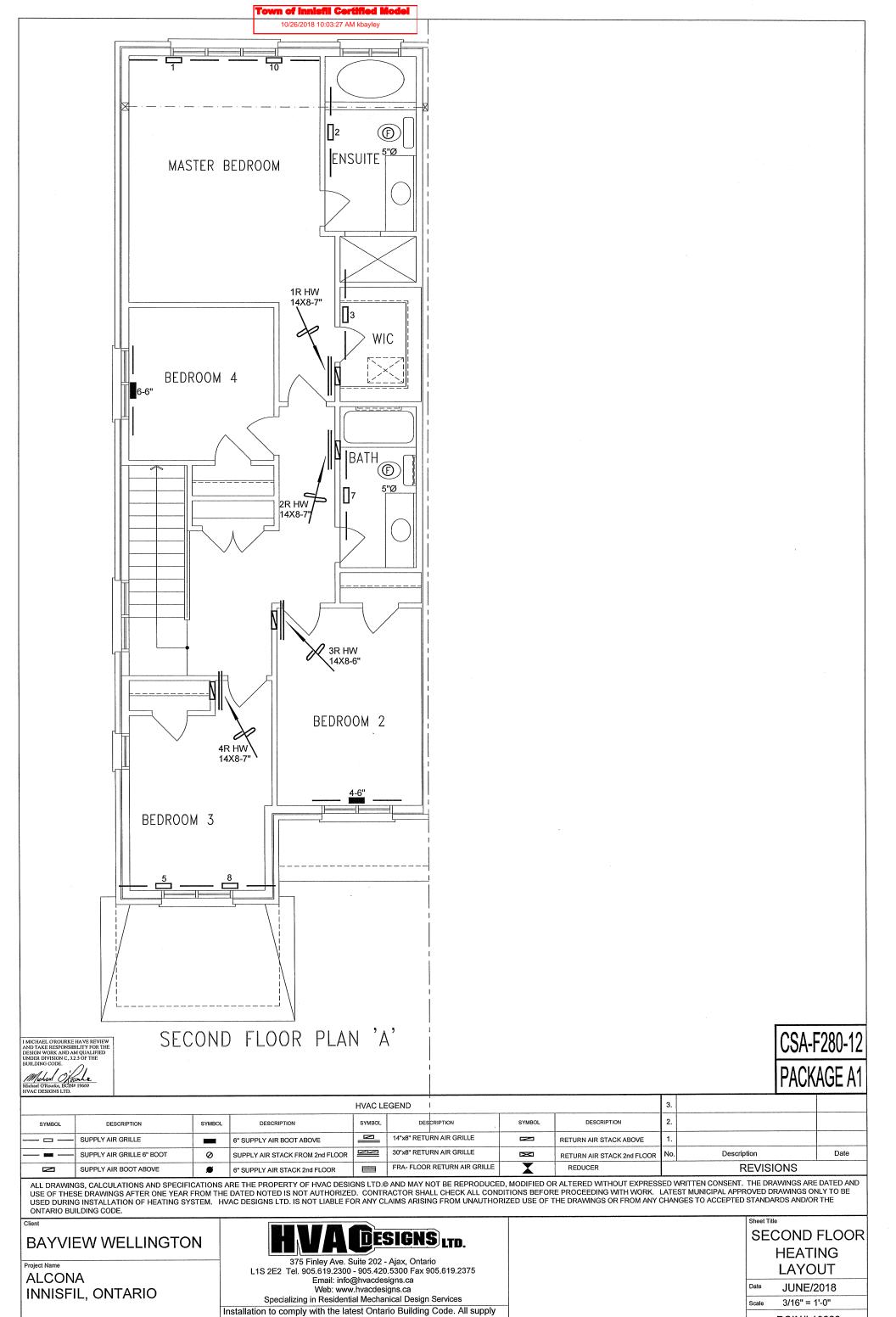
HEATING

LAYOUT

JUNE/2018

3/16" = 1'-0"

TH-12E 1996 sqft



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.

1996 sqft

TH-12E

BCIN# 19669

LO#

78882