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			E PROPERTY A		
Building number, street name	-		OR CONTRACTOR OF THE CONTRACTO	Unit no.	Lot/con.
Municipality	Postal code	Plan number/ other desc	cription	<u> </u>	
INNISFIL					
B. Individual who reviews and takes	responsibility fo	r design activities			
Name		Firm			
MICHAEL O'ROURKE Street address		HVAC DESIGNS LTD.	It to it on a		T
375 FINLEY AVE			Unit no.		Lot/con. N/A
Municipality	Postal code	Province	E-mail		
AJAX	L1S 2E2	ONTARIO	info@hvacdes	igns.ca	
Telephone number (905) 619-2300	Fax number (905) 619-2375		Cell number		
,	, ,		()		
C. Design activities undertaken by in	ndividual identifie	ed in Section B. [Build	ing Code Tab	le 3.5.2.1 OF Divis	sion C]
☐ House	⊠ HVAC	Hausa		Buildia - Otalia	
☐ Small Buildings	Buildin	g Services		Building Structur Plumbing – Hous	
☐ Large Buildings ☐ Complex Buildings	Detect	ion, Lighting and Pov	ver 🔲 l	Plumbing – All B	uildings
Description of designer's work	☐ Fire Pr			On-site Sewage	Systems
HEAT LOSS / GAIN CALCULATIONS		Model:	TH-3		
DUCT SIZING					
RESIDENTIAL SYSTEM DESIGN TO COM		ARY Project:	ALCONA		
RESIDENTIAL SYSTEM DESIGN per CSA D. Declaration of Designer	-F28U-12				
MICHAEL O'ROURKE	rint name)	***************************************	declare the	at (choose one as ap	propriate):
☐ I review and take responsibility f Division C, of the Building Code. classes/categories.	or the design work o I am qualified, and	on behalf of a firm registere the firm is registered, in th	ed under subsec e	tion 3.2.4.of appropriate	
Individual BCIN: Firm BCIN:					
I review and take responsibility for designer and take responsibility for designer and take responsibility for designer.	or the design and ar 2.5.of Di visio	m qualified in the appropria on C, of the Building Code.	ate category as a	an "other	
Individual BCIN: Basis for exemption f	19669 rom registration and	l qualification:	O.B.C SENT	ENCE 3.2.4.1	(4)
☐ The design work is exempt Basis for exemption from registra	from the registration and qualification	on and qualification requirence.	ements of the Bu	uilding Code.	
I certify that:					
The information contained I have submitted this application.	in this schedution with the knowle	ule is true to the best of my edge and consent of the fir	knowledge. m.		
June 14, 2018	_		Michael	O Kounte	 .
Date	_	•		Signature of Des	igner
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.

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

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10010	9761	600		



LOSS DUE TO VENTILATION LOAD BTU/H: 1429

TONS: 1.91

22940

TOTAL HEAT GAIN BTU/H:

MICHAEL O'ROURKE

INDIVIDUAL BCIN: 19669

TOTAL COMBINED HEAT LOSS BTU/H: 31394

STRUCTURAL HEAT LOSS: 29966

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

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MICHAEL O'ROURKE



TYPE: TH-3 SITE NAME: ALCONA

LO# 78871

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	137.8		cfm
b) Positive venting induced draft (except fireplaces)		Less Principal Venti	il. Capacity	63.6		cfm
c) Natural draft, B-vent or induced draft gas fireplace		Required Suppleme	ental Capacity	74.2		cfm
d) Solid Fuel (including fireplaces)						
e) No Combustion Appliances		PRINCIPAL EXHAU	JST FAN CAPACITY			
		Model:	VANEE 65H	Location:	В	SMT
HEATING SYSTEM		63.6	cfm3.0sone	es	✓ 1	-IVI Approved
Forced Air Non Forced Air			JST HEAT LOSS CALCULATION			
		63.6 CFM	ΔT °F Χ 83 F Χ	FACTOR 1.08	х	% LOSS 0.25
Electric Space Heat		SUPPLEMENTAL F	ANS	NUTONE		
		Location	Model	cfm	HVI	Sones
HOUSE TYPE	9.32.1(2)	ENS	QTXEN050C	50	TVT	0,3
✓ I Type a) or b) appliance only, no solid fuel		BATH	QTXEN050C	50	~	0.3
, and an		PWD	QTXEN050C	50	1	0.3
		HEAT RECOVERY	VENTILATOR			9.32.3.11.
III Any Type c) appliance		Model: 155	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)		✓ ⊦	IVI Approved
SYSTEM DESIGN OPTIONS O.N	I.H.W.P.	LOCATION OF INST	FALLATION			
		Lot:		Concession		
		Township		Plan:		
2 HRV with Ducting/Forced Air System		A del roco				
3 HRV Simplified/connected to forced air system		Address				
4 HRV with Ducting/non forced air system		Roll #		Building Permi	it #	
Part 6 Design		BUILDER:	BAYVIEW WELLINGTON			
<u> </u>		Name:				
TOTAL VENTILATION CAPACITY 9.3	2.3.3(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 & Bathrooms4 @ 10.6 cfm 42.4	cfm	INSTALLING CONTR		T WATER		
			ACTOR .			
	cfm	Name:				
Table 9.32.3.A. TOTAL 137.8	cfm	Address:				
PRINCIPAL VENTILATION CAPACITY REQUIRED 9.32		City:				
9,32	2.3.4.(1)	Telephone #:		Fax #:		
1 Bedroom 31.8	cfm					
2 Bedroom 47.7	cfm		is ventilation system has been des	signed		
3 Bedroom 63.6	cfm	in accordance with the Name:	e Ontario Building Code. HVAC Designs Ltd.			
4 Bedroom 79.5	cfm	Signature:		Ofounde	***************************************	
5 Bedroom 95.4	cfm	HRAI#	jin jiewan	001820	•	
•						
TOTAL 63.6 cfm I REVIEW AND TAKE RESPONIBILITY FOR THE DESIGN WORK AND AM QUALIFIED	IN THE APPRI	Date: OPRIATE CATEGORY AS AN "C	OTHER DESIGNER" LINDER DIVISION C. 3	June-18	ING CODE	



10/23/2018 3:07:39 PM kbayley

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

86.0 ft

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

HEAT LOSS AND GAIN SUMMARY SHEET

MODEL: TH-3 **BUILDER: BAYVIEW WELLINGTON** SFQT: 1708 LO# 78871 **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: **ATTACHED** # OF STORIES (+BASEMENT): 3 FRONT FACES: **EAST** ASSUMED (Y/N): Υ AIR CHANGES PER HOUR: 3.57 ASSUMED (Y/N): AIR TIGHTNESS CATEGORY: AVERAGE ASSUMED (Y/N): WIND EXPOSURE: **SHELTERED** ASSUMED (Y/N): Υ HOUSE VOLUME (ft3): 22850.0 ASSUMED (Y/N): Υ INTERNAL SHADING: **BLINDS/CURTAINS ASSUMED OCCUPANTS:** INTERIOR LIGHTING LOAD (Btu/h/ft²): 1.75 DC BRUSHLESS MOTOR (Y/N): FOUNDATION CONFIGURATION BCIN_1 **DEPTH BELOW GRADE:** 6.0 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	_

EXPOSED PERIMETER:

INDIVIDUAL BCIN: 19669 MICHAEL O'ROURKE

LENGTH:

46.0 ft

WIDTH:

20.0 ft





Residential Foundation Thermal Load Calculator

Supplemental tool for CAN/CSA-F280

W	eather Stat	ion Description
Province:	Ontario	
Region:	Barrie	
	Site De	scription
Soil Conductivity:	Normal co	nductivity: dry sand, loam, clay
Water Table:	Normal (7	-10 m, 23-33 ft)
	Foundation	Dimensions
Floor Length (m):	14.0	
Floor Width (m):	6.1	The state of the s
Exposed Perimeter (m):	26.2	
Wall Height (m):	2.7	
Depth Below Grade (m):	1.83	Insulation Configuration
Window Area (m²):	2.1	
Door Area (m²):	1.9	
	Radiar	nt Slab
Heated Fraction of the Slab:	0	
Fluid Temperature (°C):	33	
	Design	Months
Heating Month	1	
	Foundati	on Loads
Heating Load (Watts):		832

TYPE: TH-3 **LO#** 78871



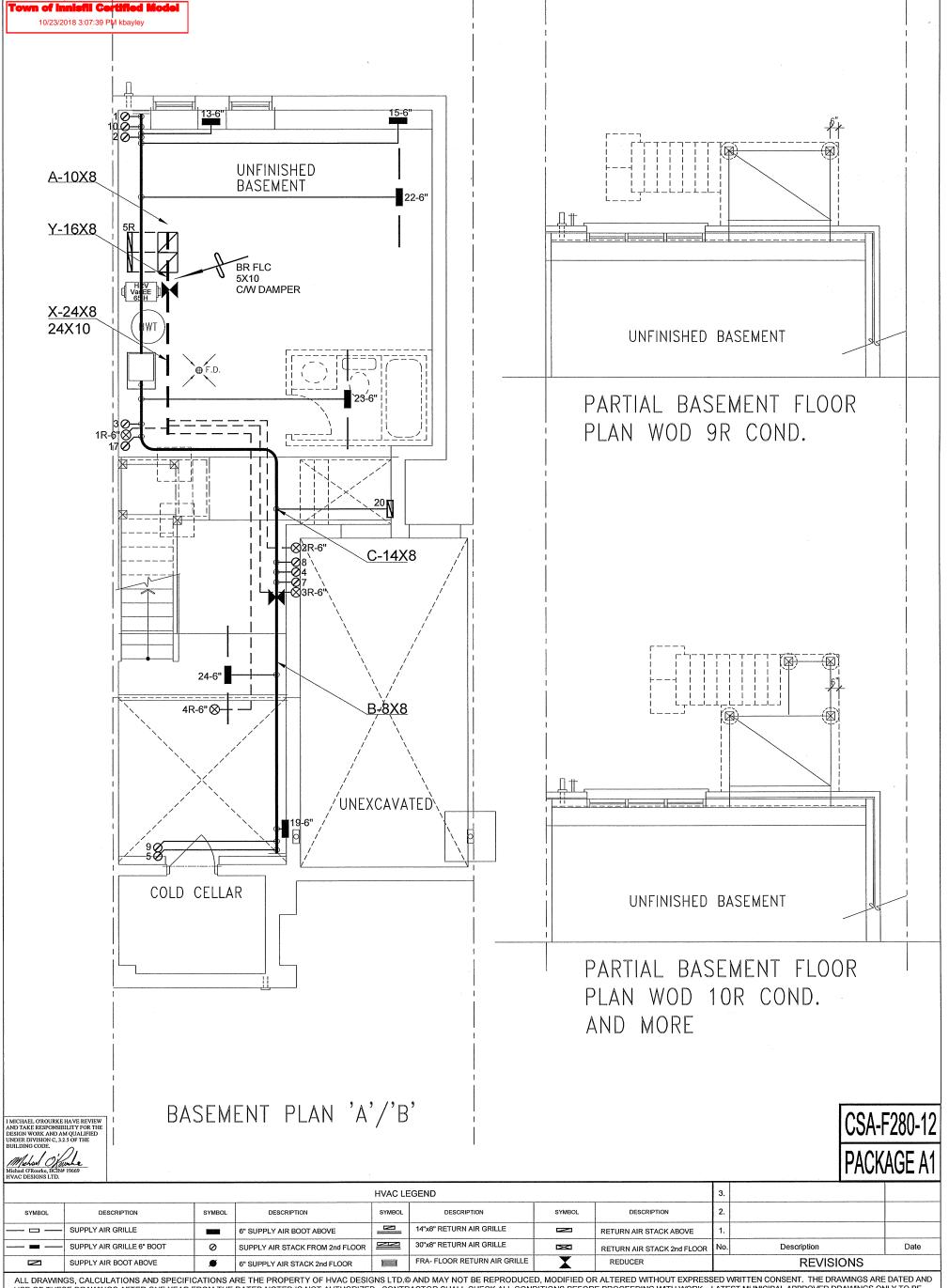
Town of innisfii Certified Model 10/23/2018 3:07:39 PM kbayley

Air Infiltration Residential Load Calculator

Supplemental tool for CAN/CSA-F280

Weather Stati	on De	scrip	tion		
Province:	Onta	rio			
Region:	Barri	e			
Weather Station Location:	Oper	n flat te	errain,	grass	
Anemometer height (m):	10				
Local Sh	nieldir	g			
Building Site:	Subu	rban, f	orest		
Walls:	Heav	у			
Flue:	Heav	У			
Highest Ceiling Height (m):	6.71				
Building Co	nfigur	ation			
Type:	Semi				
Number of Stories:	Two				
Foundation:	Full				
House Volume (m³):	647.0)			
Air Leakage/	Venti	latio	า		
Air Tightness Type:	Prese	nt (19	61-) (3.	.57 ACI	Н)
Custom BDT Data:	ELA @	9 10 Pa	а.		862.5 cm ²
	3.57				ACH @ 50 Pa
Mechanical Ventilation (L/s):	To	tal Sup	ply		Total Exhaust
		30.0			30.0
Flue	Size				
Flue #:	#1	#2	#3	#4	
Diameter (mm):	0	0	0	0	
Natural Infilt	ration	Rate	!S		
Heating Air Leakage Rate (ACH/H):		0	.34	8	
Cooling Air Leakage Rate (ACH/H):		0	.09	0	

TYPE: TH-3 **LO#** 78871



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FAN SPEED

800

BAYVIEW WELLINGTON

Project Name ALCONA INNISFIL, ONTARIO

TH-3

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

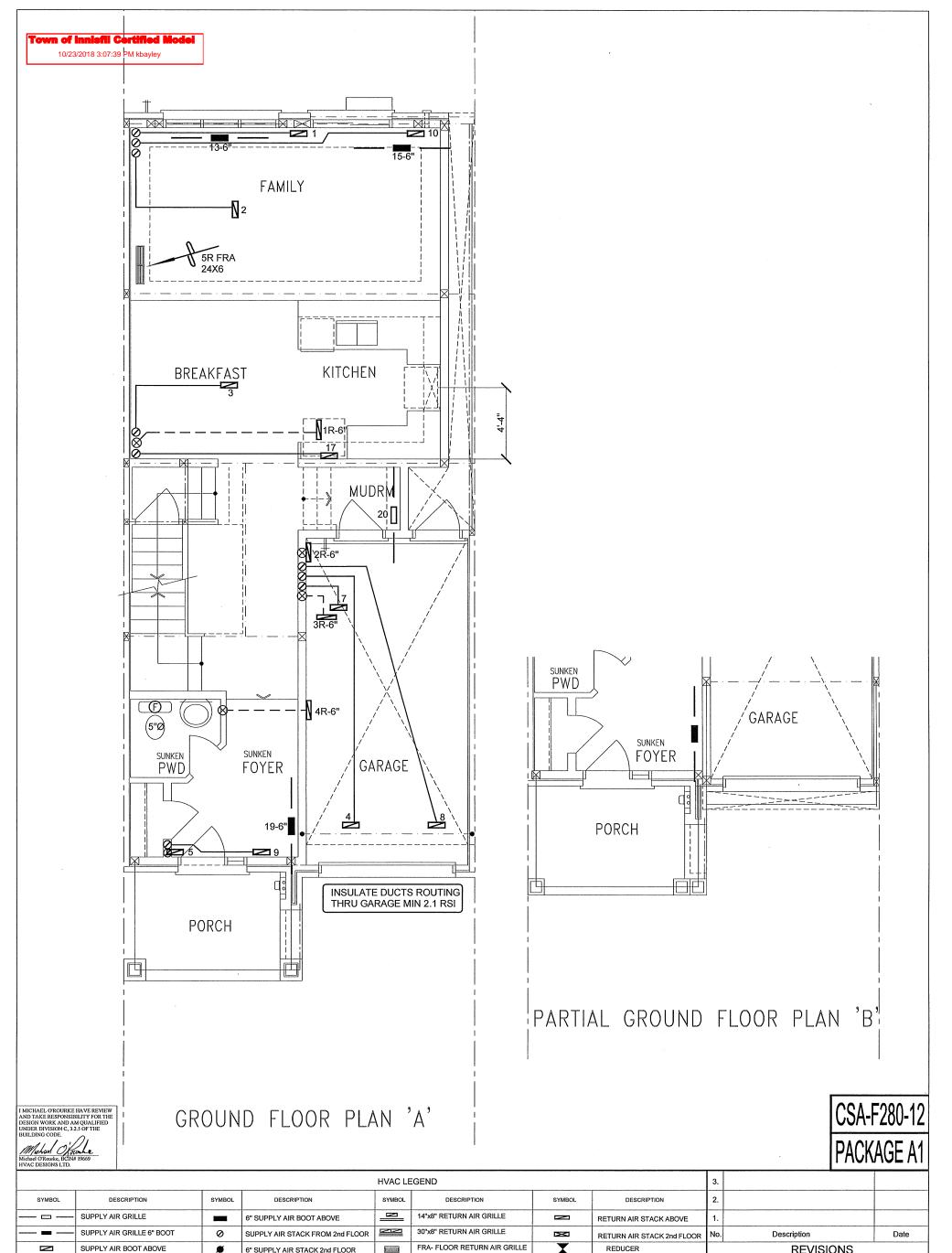
Installation to comply with the latest Ontario Building Code. All supply branch outlets shall be equipped with a manual balancing damper.

Ductwork which passes through the garage or unheated spaces shall be adequately insulated and be gas-proofed.

	HEAT LO	SS 31394	BTU/H	# OF RUNS	S/A	R/A	FANS	Sheet Title	
	L	JNIT DATA		3RD FLOOR		T		B₽	SEMENT
	MAKE L	ENNOX		2ND FLOOR	10	4	3	Н	EATING
	MODEL EL196	UH045XE2	4B	1ST FLOOR	4	1	2	L	.AYOUT
	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		UNLESS NOTE	D OTI	HERW	ISE	B	CIN# 19669
e	COOLING	2.0	TONS	ON LAYOUT. A					011411 10000

ON LAYOUT. UNDERCUT DOORS 1" min. FOR R/A 78871

LO#



SUPPLY AIR BOOT ABOVE

6" SUPPLY AIR STACK 2nd FLOOR

FRA- FLOOR RETURN AIR GRILLE

REDUCER

REDUCER

REDUCER

REDUCER

REDUCER

REDUCER

REPOPER

REVISIONS

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Client

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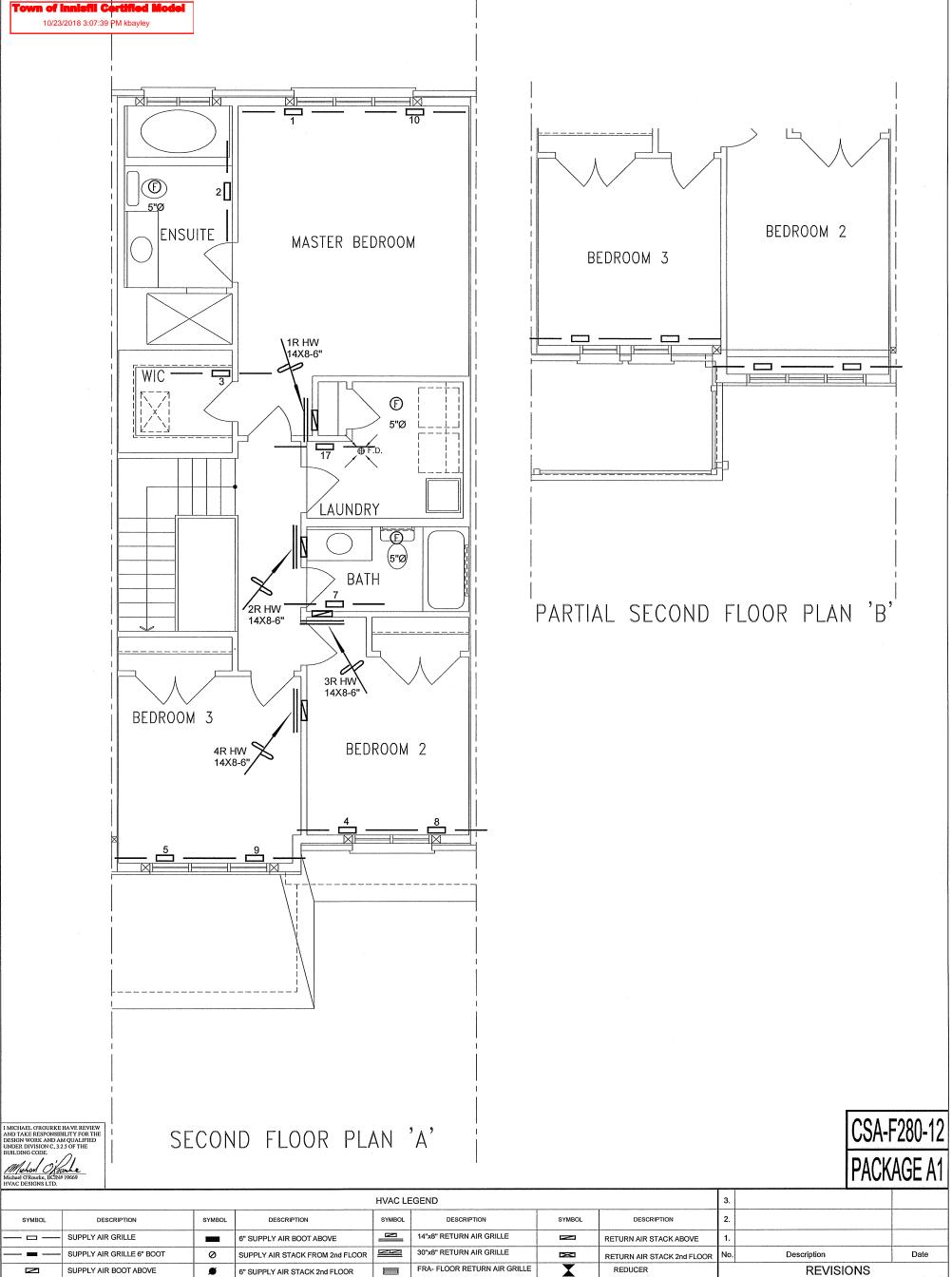
FIRST FLOOR
HEATING
LAYOUT

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

LO# 78871

TH-3

1708 sqft



6" SUPPLY AIR STACK 2nd FLOOR 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.

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SECOND FLOOR **HEATING** LAYOUT

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

78871 LO#

TH-3

1708 sqft