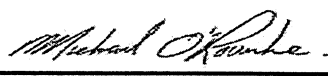


Schedule 1: Designer Information

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 OAKVILLE	Postal code	Plan number/ other description	
B. Individual who reviews and takes responsibility for design activities			
Name MICHAEL O'ROURKE		Firm HVAC DESIGNS LTD.	
Street address 375 FINLEY AVE		Unit no. 202	Lot/con. N/A
Municipality AJAX	Postal code L1S 2E2	Province ONTARIO	E-mail info@hvacdesigns.ca
Telephone number (905) 619-2300	Fax number (905) 619-2375	Cell number ()	
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			
Description of designer's work HEAT LOSS / GAIN CALCULATIONS DUCT SIZING RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY RESIDENTIAL SYSTEM DESIGN per CSA-F280-12		Model: GEORGIAN 3 Project: TIBURTINO BUILDING CORP	
D. Declaration of Designer			
I, <u>MICHAEL O'ROURKE</u> (print name) declare that (choose one as appropriate):			
☐ I review and take responsibility for the design work on behalf of a firm registered under subsection 3.2.4. of Division C, of the Building Code. I am qualified, and the firm is registered, in the appropriate classes/categories. Individual BCIN: _____ Firm BCIN: _____			
☒ I review and take responsibility for the design and am qualified in the appropriate category as an "other designer" under subsection 3.2.5. of Division C, of the Building Code. Individual BCIN: <u>19669</u> Basis for exemption from registration and qualification: <u>O.B.C SENTENCE 3.2.4.1 (4)</u>			
☐ The design work is exempt from the registration and qualification requirements of the Building Code. Basis for exemption from registration and qualification: _____			
I certify that:			
1. The information contained in this schedule is true to the best of my knowledge. 2. I have submitted this application with the knowledge and consent of the firm.			
January 16, 2018		 Signature of Designer	
Date			

NOTE:

- 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.
- 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.

48910	TONS: 4.08	LOSS DUE TO VENTILATION LOAD BTU/H: 3030	STRUCTURAL HEAT LOSS: 68664	TOTAL COMBINED HEAT LOSS BTU/H: 71694
TOTAL HEAT GAIN BTU/H:				

SITE NAME: TIBURTINO BUILDING CORP
BUILDER: GREENPARK HOMES

TYPE: GEORGIAN 3

DATE: Jan-18

GFA: 3830 LO# 77395

HEATING CFM 1396 COOLING CFM 1396
TOTAL HEAT LOSS 68,864 TOTAL HEAT GAIN 48,366
AIR FLOW RATE CFM 20.33 AIR FLOW RATE CFM 28.86

GMVC960804CNA
FAN SPEED
LOW 1316
MEDIUM 1389
HIGH 1396

AFUE = 96 %
INPUT (BTU/H) = 80,000
OUTPUT (BTU/H) = 76,800

RUN COUNT	4th	3rd	2nd	1st	Bas
S/A	0	0	13	11	6
R/A	0	0	5	3	1

plenum pressure s/a 0.18
max s/a dif press. loss 0.03
min adjusted pressure s/a 0.15
r/a grille press. loss 0.02
adjusted pressure r/a 0.15

DESIGN CFM = 1396
CFM @ 8" E.S.P.

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

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

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	WIC	BED-2	BED-3	BED-4	ENS-2/3	WIC-4	BED-3	MBR	ENS-4	FAM	LV/DN	KIT	KIT	STUDY	LAUN	PWD	FOY	FAM	BAS	BAS	BAS	ENS-5
RM LOSS MBH	1.88	1.36	1.54	3.03	1.27	1.45	1.79	0.63	1.27	1.88	0.71	3.15	2.67	2.98	2.98	1.88	2.38	0.41	1.70	3.15	4.67	4.67	4.67	0.45
CFM PER RUN HEAT	38	28	31	62	26	29	36	13	26	38	15	64	54	61	61	38	48	8	35	64	95	95	9	
RM GAIN MBH	2.38	0.82	0.74	2.66	2.09	2.11	0.72	0.69	2.09	2.38	0.43	3.73	2.85	2.38	2.38	2.36	1.29	0.07	0.29	3.73	0.62	0.62	0.00	
CFM PER RUN COOLING	69	24	21	77	60	61	21	20	60	69	13	108	82	69	69	68	37	2	8	108	18	18	0	
ADJUSTED PRESSURE	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.15	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.15	0.16	0.16	0.17	
ACTUAL DUCT LGH.	63	33	26	57	59	33	55	40	42	57	36	50	35	34	44	42	52	33	31	60	38	43	62	
EQUIVALENT LENGTH	160	200	180	170	170	210	160	200	170	160	210	140	200	170	150	130	110	130	150	120	160	130	160	
TOTAL EFFECTIVE LENGTH	223	233	206	227	229	243	215	240	212	217	246	190	235	204	194	172	162	163	181	180	198	173	222	
ADJUSTED PRESSURE	0.08	0.07	0.08	0.08	0.08	0.07	0.08	0.07	0.08	0.08	0.07	0.08	0.07	0.08	0.09	0.1	0.11	0.11	0.1	0.08	0.08	0.09	0.07	
ROUND DUCT SIZE	5	4	4	5	5	5	4	4	5	5	4	6	6	5	5	5	4	4	4	6	6	6	4	
HEATING VELOCITY (ft/min)	279	321	356	455	191	213	413	149	191	279	172	326	275	448	448	279	551	92	402	326	484	484	103	
COOLING VELOCITY (ft/min)	507	275	241	585	441	448	241	229	441	507	149	551	418	507	507	499	424	23	92	551	92	92	0	
OUTLET GRILL SIZE	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	4X10	4X10	3X10	3X10	3X10	3X10	3X10	3X10	4X10	4X10	4X10	3X10	
TRUNK	A	A	A	B	B	B	B	B	B	A	B	C	D	C	C	D	C	D	D	C	C	C	D	

RUN #	25	26	27	28	29	30
ROOM NAME	ENS	BED-4	LV/DN	BED-5	BAS	STUDY
RM LOSS MBH	1.36	1.45	2.67	4.05	4.67	1.88
CFM PER RUN HEAT	28	29	54	82	95	38
RM GAIN MBH	0.82	2.11	2.85	1.59	0.62	2.36
CFM PER RUN COOLING	24	61	82	46	18	68
ADJUSTED PRESSURE	0.17	0.17	0.16	0.16	0.16	0.17
ACTUAL DUCT LGH.	25	43	28	24	40	42
EQUIVALENT LENGTH	200	220	180	210	160	130
TOTAL EFFECTIVE LENGTH	225	263	208	234	200	172
ADJUSTED PRESSURE	0.08	0.07	0.08	0.07	0.08	0.1
ROUND DUCT SIZE	4	5	5	6	6	5
HEATING VELOCITY (ft/min)	321	213	396	418	484	279
COOLING VELOCITY (ft/min)	275	448	602	235	92	499
OUTLET GRILL SIZE	3X10	3X10	3X10	4X10	4X10	3X10
TRUNK	A	B	D	D	C	D

SUPPLY AIR TRUNK SIZE										RETURN AIR TRUNK SIZE									
TRUNK	STATIC PRESS.	ROUND DUCT	RECT DUCT	VELOCITY (ft/min)	TRUNK CFM	STATIC PRESS.	ROUND DUCT	RECT DUCT	VELOCITY (ft/min)	TRUNK	STATIC PRESS.	ROUND DUCT	RECT DUCT	VELOCITY (ft/min)	TRUNK CFM	STATIC PRESS.	ROUND DUCT	RECT DUCT	VELOCITY (ft/min)
TRUNK A	196	0.07	7.9	8	0	0.00	0	0	8	0	0.00	0	0	0	0	0.06	0	0	8
TRUNK B	266	0.07	8.8	10	0	0.00	0	0	8	0	0.00	0	0	0	0	0.06	0	0	8
TRUNK C	583	0.08	11.5	16	0	0.00	0	0	8	0	0.00	0	0	0	0	0.06	0	0	8
TRUNK D	413	0.07	10.4	12	0	0.00	0	0	8	0	0.00	0	0	0	0	0.06	0	0	8
TRUNK E	746	0.07	13	20	0	0.00	0	0	8	0	0.00	0	0	0	0	0.06	0	0	8
TRUNK F	649	0.07	12.3	18	0	0.00	0	0	8	0	0.00	0	0	0	0	0.06	0	0	8
TRUNK G	0	0	0	0	0	0.00	0	0	0	0	0.00	0	0	0	0	0.06	0	0	0
TRUNK H	0	0	0	0	0	0.00	0	0	0	0	0.00	0	0	0	0	0.06	0	0	0
TRUNK I	0	0	0	0	0	0.00	0	0	0	0	0.00	0	0	0	0	0.06	0	0	0
TRUNK J	0	0	0	0	0	0.00	0	0	0	0	0.00	0	0	0	0	0.06	0	0	0
TRUNK K	0	0	0	0	0	0.00	0	0	0	0	0.00	0	0	0	0	0.06	0	0	0
TRUNK L	0	0	0	0	0	0.00	0	0	0	0	0.00	0	0	0	0	0.06	0	0	0
TRUNK M	0	0	0	0	0	0.00	0	0	0	0	0.00	0	0	0	0	0.06	0	0	0
TRUNK N	0	0	0	0	0	0.00	0	0	0	0	0.00	0	0	0	0	0.06	0	0	0
TRUNK O	0	0	0	0	0	0.00	0	0	0	0	0.00	0	0	0	0	0.06	0	0	0
TRUNK P	0	0	0	0	0	0.00	0	0	0	0	0.00	0	0	0	0	0.06	0	0	0
TRUNK Q	0	0	0	0	0	0.00	0	0	0	0	0.00	0	0	0	0	0.06	0	0	0
TRUNK R	0	0	0	0	0	0.00	0	0	0	0	0.00	0	0	0	0	0.06	0	0	0
TRUNK S	0	0	0	0	0	0.00	0	0	0	0	0.00	0	0	0	0	0.06	0	0	0
TRUNK T	0	0	0	0	0	0.00	0	0	0	0	0.00	0	0	0	0	0.06	0	0	0
TRUNK U	0	0	0	0	0	0.00	0	0	0	0	0.00	0	0	0	0	0.06	0	0	0
TRUNK V	0	0	0	0	0	0.00	0	0	0	0	0.00	0	0	0	0	0.06	0	0	0
TRUNK W	0	0	0	0	0	0.00	0	0	0	0	0.00	0	0	0	0	0.06	0	0	0
TRUNK X	916	0.06	14.6	24	0	0.06	14.6	24	0	0.06	14.6	24	24	0	0.06	14.6	24	24	0
TRUNK Y	480	0.06	11.4	16	0	0.06	11.4	16	0	0.06	11.4	16	16	0	0.06	11.4	16	16	0
TRUNK Z	710	0.06	13.3	20	0	0.06	13.3	20	0	0.06	13.3	20	20	0	0.06	13.3	20	20	0
DROP	1396	0.06	17.1	24	0	0.06	17.1	24	0	0.06	17.1	24	24	0	0.06	17.1	24	24	0

TYPE: GEORGIAN 3
SITE NAME: TIBURTINO BUILDING CORP

LO # 77395

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	<u>2</u> @ 21.2 cfm <u>42.4</u> cfm	
Other Bedrooms	<u>4</u> @ 10.6 cfm <u>42.4</u> cfm	
Kitchen & Bathrooms	<u>6</u> @ 10.6 cfm <u>63.6</u> cfm	
Other Rooms	<u>9</u> @ 10.6 cfm <u>95.4</u> cfm	
Table 9.32.3.A.	TOTAL <u>243.8</u> 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	95.4 cfm	

SUPPLEMENTAL VENTILATION CAPACITY		9.32.3.5.
Total Ventilation Capacity	<u>243.8</u> cfm	
Less Principal Ventil. Capacity	<u>155</u> cfm	
Required Supplemental Capacity	<u>88.8</u> cfm	

PRINCIPAL EXHAUST FAN CAPACITY	
Model: VANE 65H	Location: BSMT
<u>155.0</u> cfm	<u>3.0</u> sones
☒ HVI Approved	

PRINCIPAL EXHAUST HEAT LOSS CALCULATION	
CFM	ΔT °F
155.0 CFM	X 72 F
X	X
FACTOR	% LOSS
1.08	X
	0.25

SUPPLEMENTAL FANS		NUTONE	
Location	Model	cfm	HVI
ENS	QTXEN050C	50	☒
ENS-2/3	QTXEN050C	50	☒
ENS-4	QTXEN050C	50	☒
PWD	QTXEN050C	50	☒

HEAT RECOVERY VENTILATOR		9.32.3.11.
Model: VANE 65H		
<u>155</u> cfm high	<u>64</u> cfm low	
<u>75</u> % Sensible Efficiency	☒ HVI Approved	
@ 32 deg F (0 deg C)		

LOCATION OF INSTALLATION	
Lot:	Concession
Township	Plan:
Address	
Roll #	Building Permit #

BUILDER: GREENPARK HOMES	
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:	<i>Michael O'Rourke</i>
HRAI #	001820
Date:	January-18

HEAT LOSS AND GAIN SUMMARY SHEET**MODEL:** GEORGIAN 3**BUILDER:** GREENPARK HOMES**SFQT:** 3830**LO#** 77395**SITE:** TIBURTINO BUILDING CORP**DESIGN ASSUMPTIONS**

HEATING	°F	COOLING	°F
OUTDOOR DESIGN TEMP.	0	OUTDOOR DESIGN TEMP.	86
INDOOR DESIGN TEMP.	72	INDOOR DESIGN TEMP. (MAX 75°F)	73

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):	58482.0	ASSUMED (Y/N):	Y
INTERNAL SHADING:	BLINDS/CURTAINS	ASSUMED OCCUPANTS:	6
INTERIOR LIGHTING LOAD (Btu/h/ft²):	1.27	DC BRUSHLESS MOTOR (Y/N):	Y
FOUNDATION CONFIGURATION	BCIN_1	DEPTH BELOW GRADE:	7.0 ft
LENGTH: 48.0 ft	WIDTH: 45.0 ft	EXPOSED PERIMETER:	186.0 ft

2012 OBC - COMPLIANCE PACKAGE**Component****Compliance Package
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	-

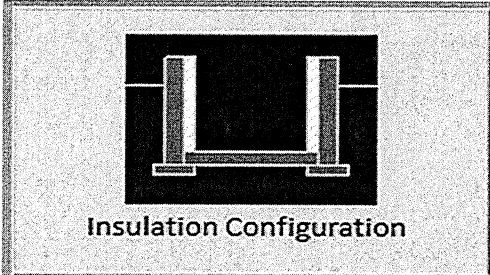
INDIVIDUAL BCIN: 19669

MICHAEL O'ROURKE

Michael O'Rourke

Residential Foundation Thermal Load Calculator

Supplemental tool for CAN/CSA-F280

Weather Station Description		
Province:	Ontario	
Region:	Oakville	
Site Description		
Soil Conductivity:	Normal conductivity: dry sand, loam, clay	
Water Table:	Normal (7-10 m, 23-33 ft)	
Foundation Dimensions		
Floor Length (m):	14.6	 Insulation Configuration
Floor Width (m):	13.7	
Exposed Perimeter (m):	0.0	
Wall Height (m):	3.0	
Depth Below Grade (m):	2.13	
Window Area (m ²):	5.8	
Door Area (m ²):	1.9	
Radiant Slab		
Heated Fraction of the Slab:	0	
Fluid Temperature (°C):	33	
Design Months		
Heating Month	1	
Foundation Loads		
Heating Load (Watts):		1748

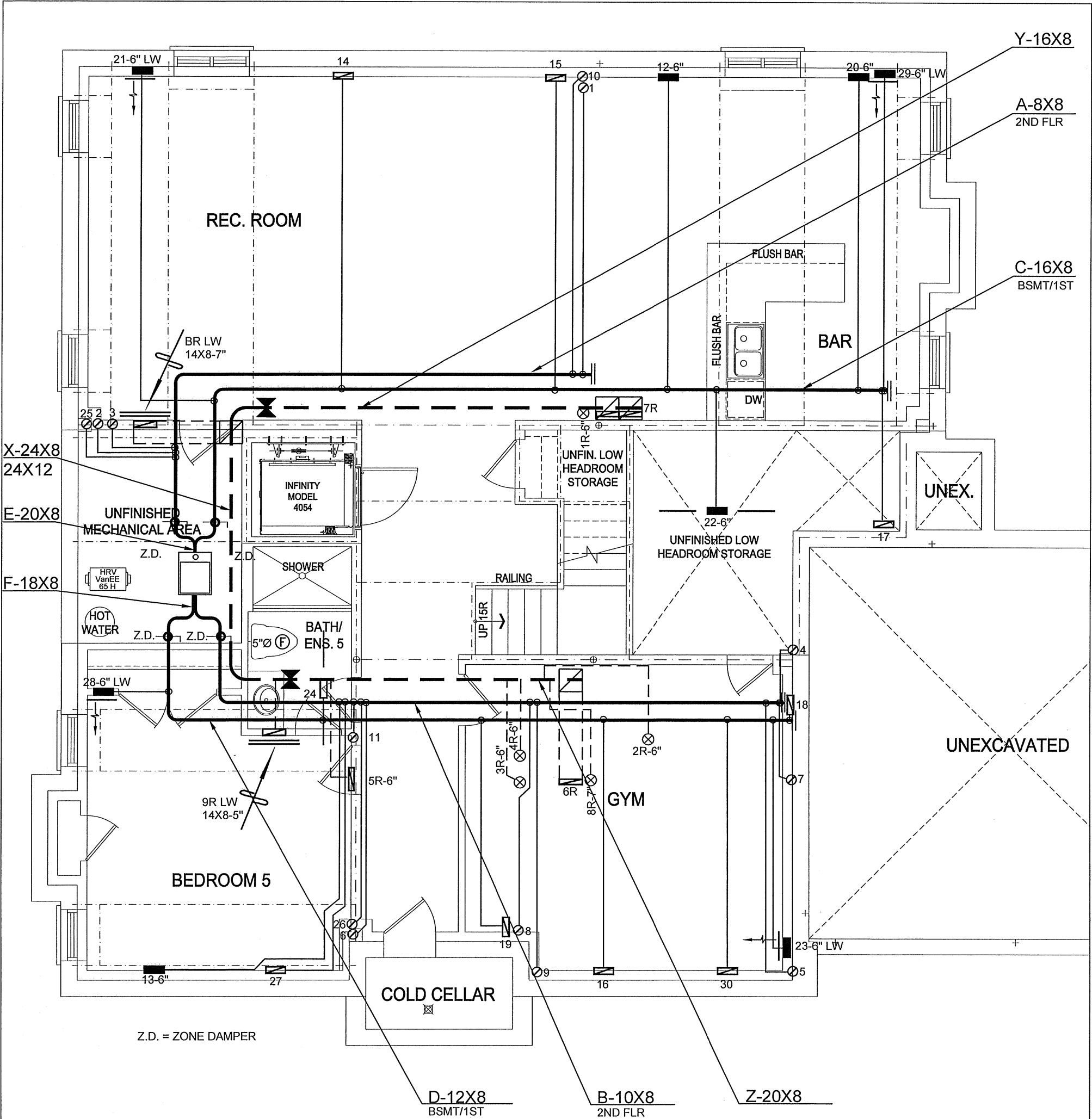
TYPE: GEORGIAN 3
LO# 77395

Air Infiltration Residential Load Calculator

Supplemental tool for CAN/CSA-F280

Weather Station Description				
Province:	Ontario			
Region:	Oakville			
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):	7.01			
Building Configuration				
Type:	Detached			
Number of Stories:	Two			
Foundation:	Full			
House Volume (m ³):	1656.0			
Air Leakage/Ventilation				
Air Tightness Type:	Present (1961-) (3.57 ACH)			
Custom BDT Data:	ELA @ 10 Pa.	2207.5 cm ²		
	3.57	ACH @ 50 Pa		
Mechanical Ventilation (L/s):	Total Supply	Total Exhaust		
	73.2	73.2		
Flue Size				
Flue #:	#1	#2	#3	#4
Diameter (mm):	0	0	0	0
Natural Infiltration Rates				
Heating Air Leakage Rate (ACH/H):	0.358			
Cooling Air Leakage Rate (ACH/H):	0.110			

TYPE: GEORGIAN 3
LO# 77395



BASEMENT ELEVATION A & B

I MICHAEL O'ROURKE HAVE REVIEW AND TAKE RESPONSIBILITY FOR THE DESIGN WORK AND AM QUALIFIED UNDER DIVISION C, 3.2.5 OF THE BUILDING CODE.

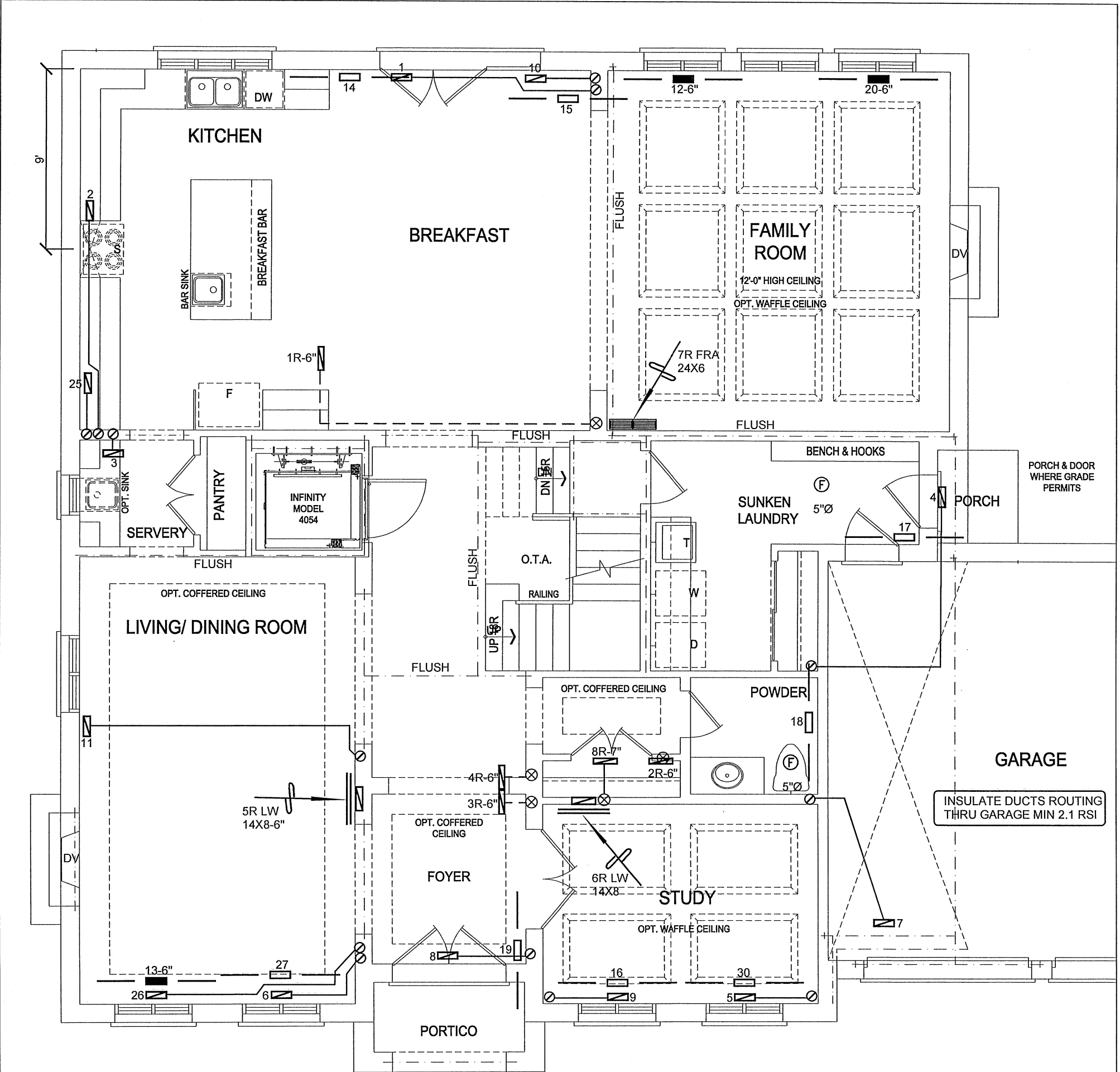
Michael O'Rourke, BCIN# 19669
HVAC DESIGNS LTD.

CSA-F280-12
PACKAGE A1

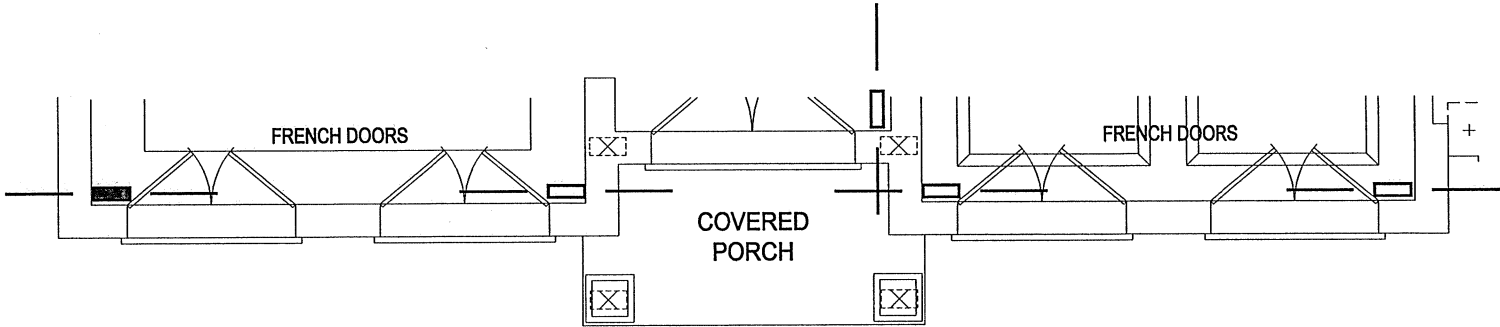
HVAC LEGEND							3.		
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	2.	
	SUPPLY AIR GRILLE		6" SUPPLY AIR BOOT ABOVE		14"x8" RETURN AIR GRILLE		RETURN AIR STACK ABOVE	1.	
	SUPPLY AIR GRILLE 6" BOOT		SUPPLY AIR STACK FROM 2nd FLOOR		30"x8" RETURN AIR GRILLE		RETURN AIR STACK 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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Client GREENPARK HOMES	Project Name TIBURTINO BUILDING CORP OAKVILLE, ONTARIO	HVACDESIGNS 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.	HEAT LOSS 71694 BTU/H UNIT DATA MAKE GOODMAN MODEL GMVC960804CNA INPUT 80 MBTU/H OUTPUT 76.8 MBTU/H COOLING 4.0 TONS FAN SPEED 1396 cfm @ 0.6" w.c.	# OF RUNS S/A R/A FANS 3RD FLOOR 2ND FLOOR 13 5 4 1ST FLOOR 11 3 3 BASEMENT 6 1 1	Sheet Title BASEMENT HEATING LAYOUT Date JAN/2018 Scale 3/16" = 1'-0" BCIN# 19669 LO# 77395



GROUND FLOOR ELEVATION A



I MICHAEL O'ROURKE HAVE REVIEWED AND TAKE RESPONSIBILITY FOR THE DESIGN WORK AND AM QUALIFIED UNDER DIVISION C, 3.2.5 OF THE BUILDING CODE.

Michael O'Rourke
Michael O'Rourke, BCIN# 19669
HVAC DESIGNS LTD.

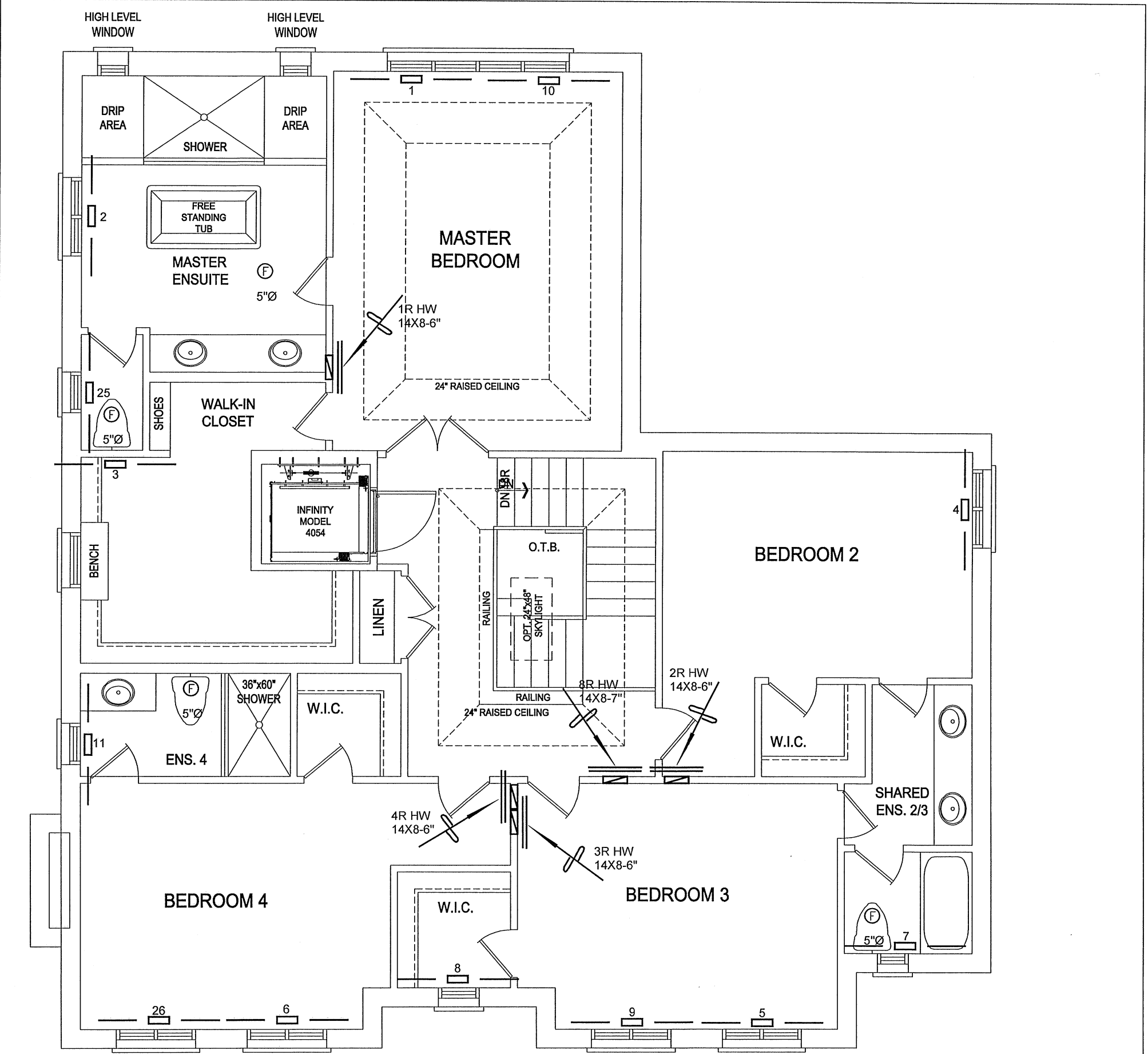
GROUND FLOOR ELEVATION B

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		14"x8" RETURN AIR GRILLE		RETURN AIR STACK ABOVE	1.	
	SUPPLY AIR GRILLE 6" BOOT		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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Client GREENPARK HOMES		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@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.	Sheet Title FIRST FLOOR HEATING LAYOUT	
Project Name TIBURTINO BUILDING CORP OAKVILLE, ONTARIO			Date JAN/2018	
GEORGIAN 3 3830 sqft			Scale 3/16" = 1'-0"	
			BCIN# 19669	
			LO# 77395	



SECOND FLOOR ELEVATION A & B

I MICHAEL O'ROURKE HAVE REVIEWED AND TAKE RESPONSIBILITY FOR THE DESIGN WORK AND AM QUALIFIED UNDER DIVISION C, 3.2.3 OF THE BUILDING CODE.

Michael O'Rourke
Michael O'Rourke, BCIN# 19669
HVAC DESIGNS LTD.

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		14"x8" RETURN AIR GRILLE		RETURN AIR STACK ABOVE	1.	
	SUPPLY AIR GRILLE 6" BOOT		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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Client GREENPARK HOMES		 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.	Sheet Title SECOND FLOOR HEATING LAYOUT	
Project Name TIBURTINO BUILDING CORP OAKVILLE, ONTARIO			Date JAN/2018	
GEORGIAN 3 3830 sqft			Scale 3/16" = 1'-0"	
			BCIN# 19669	
			LO# 77395	