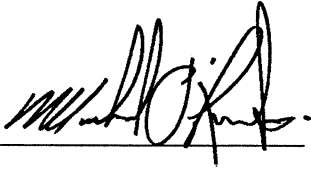


Schedule 1: Designer Information

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 VAUGHAN	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	☒ HVAC – House	☐ Building Structural		
☐ Small Buildings	☐ Building Services	☐ Plumbing – House		
☐ Large Buildings	☐ Detection, Lighting and Power	☐ Plumbing – All Buildings		
☐ Complex Buildings	☐ Fire Protection	☐ 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: 25-1 Project: KLEINBURG GLEN		
D. Declaration of Designer				
I <u>MICHAEL O'ROURKE</u> declare that (choose one as appropriate):				
(print name)				
☐ 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.				
<u>January 14, 2016</u>				
Date		Signature of Designer		

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.

SITE NAME: KLEINBURG GLEN BUILDER: GOLD PARK HOMES										DATE: Jan-16 LO# 66863		WINTER NATURAL AIR CHANGE RATE 0.322 HEAT LOSS AT °F. 76		SUMMER NATURAL AIR CHANGE RATE 0.098 HEAT GAIN AT °F. 16		CSA-F280-1 SB-12 PACKAGE 1	
ROOM USE EXP. WALL CLG. HT.		MBR		ENS		WIC		BED-2		BED-3		BATH					
GRS.WALL AREA GLAZING FACTORS LOSS GAIN		310		216		99		315		252		144					
NORTH		0		0		0		0		0		0					
EAST		24		14		0		0		0		0					
SOUTH		24		337		0		0		0		0					
WEST		0		0		0		7		189		369					
SKYLT.		0		0		0		35		843		16					
DOORS		0		0		0		0		0		0					
NET EXPOSED B SMT WALL ABOVE GR		0		0		0		0		0		0					
EXPOSED CLG		0		0		0		0		0		0					
NO A TTIC EXPOSED CLG		0		0		0		0		0		0					
EXPOSED FLOOR		0		0		0		52		127		27					
BASEMENT/CRAWL HEAT LOSS		0		0		0		0		0		0					
SLAB ON GRADE HEAT LOSS		0		0		0		0		0		0					
SUB TOTAL HT LOSS		1937		1230		476		2411		1758		1005					
SUB TOTAL HT GAIN		0.20		0.20		0.20		0.20		0.20		0.20					
LEVEL FACTOR / MULTPLIER		475		302		117		592		431		247					
AIR CHANGE HEAT LOSS		75		45		7		109		56		30					
AIR CHANGE HEAT GAIN		0		0		0		300		219		0					
DUCT LOSS		0		0		0		0		178		0					
DUCT GAIN		2		0		0		1		240		0					
HEAT GAIN PEOPLE		240		0		0		0		420		420					
HEAT GAIN APPLIANCES/LIGHTS		480		0		0		0		240		0					
TO TAL HT LOSS BTU/H		2412		1531		592		3303		2408		1252					
TOTAL HT GAIN x 1.3 BTU/H		3122		1705		190		4076		2550		1331					

ROOM USE EXP. WALL CLG. HT.		KTRFM		LAUN		WIR		FOY		BAS	
GRS.WALL AREA GLAZING FACTORS LOSS GAIN		700		220		50		480		936	
NORTH		0		0		0		0		0	
EAST		87		0		0		0		6	
SOUTH		30		0		9		0		145	
WEST		0		0		0		0		0	
SKYLT.		0		0		0		0		6	
DOORS		0		0		0		0		0	
NET EXPOSED WALL		563		220		41		44		20	
NET EXPOSED B SMT WALL ABOVE GR		0		0		0		0		0	
EXPOSED CLG		0		0		0		0		505	
NO A TTIC EXPOSED CLG		0		0		0		0		0	
EXPOSED FLOOR		0		0		0		0		0	
BASEMENT/CRAWL HEAT LOSS		0		0		0		0		0	
SLAB ON GRADE HEAT LOSS		0		0		0		0		0	
SUB TOTAL HT LOSS		4833		760		358		2617		8361	
SUB TOTAL HT GAIN		0.30		0.30		0.30		0.30		0.50	
LEVEL FACTOR / MULTPLIER		1830		288		135		991		5408	
AIR CHANGE HEAT LOSS		261		8		14		29		58	
AIR CHANGE HEAT GAIN		0		0		0		0		0	
DUCT LOSS		0		0		0		0		0	
DUCT GAIN		0		0		0		0		0	
HEAT GAIN PEOPLE		240		0		0		0		0	
HEAT GAIN APPLIANCES/LIGHTS		420		420		420		0		0	
TO TAL HT LOSS BTU/H		6663		1048		494		3608		13759	
TOTAL HT GAIN x 1.3 BTU/H		7334		765		912		754		1509	

SITE NAME: KLEINBURG GLEN
BUILDER: GOLD PARK HOMES

DATE: Jan-16

GFA: 1813 LO# 66853

TYPE: 25-1

furnace pressure 0.6
furnace filter 0.05
a/c coil pressure 0.2
available pressure for s/a & r/a 0.35HEATING CFM 700 COOLING CFM 700
TOTAL HEAT LOSS 37,071 TOTAL HEAT GAIN 24,249
AIR FLOW RATE CFM 18.88 AIR FLOW RATE CFM 28.87EL195UH045XE24B 45
FAN SPEED LOW 0
MEDIUM 0
HIGH 700AFUE = 95.0 %
INPUT (BTU/H) = 44,000
OUTPUT (BTU/H) = 42,000

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

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

All S/A runs 5'10" unless noted otherwise on layout.

RUN #	1	2	3	4	5	7	14	15	16	17	18	19	21	23	24
ROOM NAME	MBR	ENS	WIC	BED-2	BED-3	BATH				LAUN	W/R	FOY	BAS	BAS	BAS
RM LOSS MBH	2.41	1.53	0.59	3.30	2.41	1.25	2.22	2.22	2.22	1.05	0.49	3.61	4.59	4.59	4.59
CFM PER RUN HEAT	46	29	11	62	45	24	42	42	42	20	9	68	87	87	87
RM GAIN MBH	3.12	1.71	0.19	4.08	2.55	1.33	2.44	2.44	2.44	0.77	0.91	0.75	0.50	0.50	0.50
CFM PER RUN COOLING	90	49	5	118	74	38	71	71	71	22	26	22	15	15	15
ADJUSTED PRESSURE	0.16	0.17	0.17	0.15	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.16	0.16	0.16
ACTUAL DUCT LGH	50	28	29	56	47	21	16	22	34	23	19	43	24	16	35
EQUIVALENT LENGTH	150	180	150	140	160	120	140	80	120	130	90	120	110	100	100
TOTAL EFFECTIVE LENGTH	200	208	179	196	207	141	156	102	154	153	109	133	134	116	135
ADJUSTED PRESSURE	0.08	0.08	0.1	0.08	0.08	0.12	0.11	0.17	0.11	0.11	0.16	0.13	0.12	0.14	0.12
ROUND DUCT SIZE	6	5	4	6	5	4	5	4	5	4	4	5	5	5	5
HEATING VELOCITY (ft/min)	235	213	126	316	330	275	308	482	308	229	103	499	639	639	639
COOLING VELOCITY (ft/min)	459	360	57	602	543	436	521	815	521	252	298	162	110	110	110
OUTLET GRILL SIZE	4X10	3X10	3X10	4X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10
TRUNK	A	A	C	B	B	C	C	A	A	C	C	B	A	C	B

RUN #	1	2	3	4	5	7	14	15	16	17	18	19	21	23	24
ROOM NAME	MBR	ENS	WIC	BED-2	BED-3	BATH				LAUN	W/R	FOY	BAS	BAS	BAS
RM LOSS MBH	2.41	1.53	0.59	3.30	2.41	1.25	2.22	2.22	2.22	1.05	0.49	3.61	4.59	4.59	4.59
CFM PER RUN HEAT	46	29	11	62	45	24	42	42	42	20	9	68	87	87	87
RM GAIN MBH	3.12	1.71	0.19	4.08	2.55	1.33	2.44	2.44	2.44	0.77	0.91	0.75	0.50	0.50	0.50
CFM PER RUN COOLING	90	49	5	118	74	38	71	71	71	22	26	22	15	15	15
ADJUSTED PRESSURE	0.16	0.17	0.17	0.15	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.16	0.16	0.16
ACTUAL DUCT LGH	50	28	29	56	47	21	16	22	34	23	19	43	24	16	35
EQUIVALENT LENGTH	150	180	150	140	160	120	140	80	120	130	90	120	110	100	100
TOTAL EFFECTIVE LENGTH	200	208	179	196	207	141	156	102	154	153	109	133	134	116	135
ADJUSTED PRESSURE	0.08	0.08	0.1	0.08	0.08	0.12	0.11	0.17	0.11	0.11	0.16	0.13	0.12	0.14	0.12
ROUND DUCT SIZE	6	5	4	6	5	4	5	4	5	4	4	5	5	5	5
HEATING VELOCITY (ft/min)	235	213	126	316	330	275	308	482	308	229	103	499	639	639	639
COOLING VELOCITY (ft/min)	459	360	57	602	543	436	521	815	521	252	298	162	110	110	110
OUTLET GRILL SIZE	4X10	3X10	3X10	4X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10
TRUNK	A	A	C	B	B	C	C	A	A	C	C	B	A	C	B

RUN #	1	2	3	4	5	7	14	15	16	17	18	19	21	23	24
ROOM NAME	MBR	ENS	WIC	BED-2	BED-3	BATH				LAUN	W/R	FOY	BAS	BAS	BAS
RM LOSS MBH	2.41	1.53	0.59	3.30	2.41	1.25	2.22	2.22	2.22	1.05	0.49	3.61	4.59	4.59	4.59
CFM PER RUN HEAT	46	29	11	62	45	24	42	42	42	20	9	68	87	87	87
RM GAIN MBH	3.12	1.71	0.19	4.08	2.55	1.33	2.44	2.44	2.44	0.77	0.91	0.75	0.50	0.50	0.50
CFM PER RUN COOLING	90	49	5	118	74	38	71	71	71	22	26	22	15	15	15
ADJUSTED PRESSURE	0.16	0.17	0.17	0.15	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.16	0.16	0.16
ACTUAL DUCT LGH	50	28	29	56	47	21	16	22	34	23	19	43	24	16	35
EQUIVALENT LENGTH	150	180	150	140	160	120	140	80	120	130	90	120	110	100	100
TOTAL EFFECTIVE LENGTH	200	208	179	196	207	141	156	102	154	153	109	133	134	116	135
ADJUSTED PRESSURE	0.08	0.08	0.1	0.08	0.08	0.12	0.11	0.17	0.11	0.11	0.16	0.13	0.12	0.14	0.12
ROUND DUCT SIZE	6	5	4	6	5	4	5	4	5	4	4	5	5	5	5
HEATING VELOCITY (ft/min)	235	213	126	316	330	275	308	482	308	229	103	499	639	639	639
COOLING VELOCITY (ft/min)	459	360	57	602	543	436	521	815	521	252	298	162	110	110	110
OUTLET GRILL SIZE	4X10	3X10	3X10	4X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10
TRUNK	A	A	C	B	B	C	C	A	A	C	C	B	A	C	B

RUN #	1	2	3	4	5	7	14	15	16	17	18	19	21	23	24
ROOM NAME	MBR	ENS	WIC	BED-2	BED-3	BATH				LAUN	W/R	FOY	BAS	BAS	BAS
RM LOSS MBH	2.41	1.53	0.59	3.30	2.41	1.25	2.22	2.22	2.22	1.05	0.49	3.61	4.59	4.59	4.59
CFM PER RUN HEAT	46	29	11	62	45	24	42	42	42	20	9	68	87	87	87
RM GAIN MBH	3.12	1.71	0.19	4.08	2.55	1.33	2.44	2.44	2.44	0.77	0.91	0.75	0.50	0.50	0.50
CFM PER RUN COOLING	90	49	5	118	74	38	71	71	71	22	26	22	15	15	15
ADJUSTED PRESSURE	0.16	0.17	0.17	0.15	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.16	0.16	0.16
ACTUAL DUCT LGH	50	28	29	56	47	21	16	22	34	23	19	43	24	16	35
EQUIVALENT LENGTH	150	180	150	140	160	120	140	80	120	130	90	120	110	100	100
TOTAL EFFECTIVE LENGTH	200	208	179	196	207	141	156	102	154	153	109	133	134	116	135
ADJUSTED PRESSURE	0.08	0.08	0.1	0.08	0.08	0.12	0.11	0.17	0.11	0.11	0.16	0.13	0.12	0.14	0.12
ROUND DUCT SIZE	6	5	4	6	5	4	5	4	5	4	4	5	5	5	5
HEATING VELOCITY (ft/min)	235	213	126	316	330	275	308	482	308	229	103	499	639	639	639
COOLING VELOCITY (ft/min)	459	360	57	602	543	436	521	815	521	252	298	162	110	110	110
OUTLET GRILL SIZE	4X10	3X10	3X10	4X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10
TRUNK	A	A	C	B	B	C	C	A	A	C	C	B	A	C	B

TYPE: 25-1
SITE NAME: KLEINBURG GLEN

LO # 66853

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	2 @ 21.2 cfm	42.4 cfm
Other Bedrooms	2 @ 10.6 cfm	21.2 cfm
Kitchen & Bathrooms	4 @ 10.6 cfm	42.4 cfm
Other Rooms	3 @ 10.6 cfm	31.8 cfm
Table 9.32.3.A.	TOTAL	137.8 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	
More than 5 - Part 6	TOTAL	63.6 cfm

SUPPLEMENTAL VENTILATION CAPACITY		9.32.3.5.
Total Ventilation Capacity	137.8	cfm
Less Principal Ventil. Capacity	77	cfm
Required Supplemental Capacity	60.8	cfm

PRINCIPAL EXHAUST FAN CAPACITY			
Model:	VANEE 40H+ Location: BSMT		
77.0 cfm	3.0 sones ☒ HVI Approved		
PRINCIPAL EXHAUST HEAT LOSS CALCULATION			
CFM	ΔT °F	FACTOR	% LOSS
77.0 CFM	X 76 F	X 1.08	X 0.34

SUPPLEMENTAL FANS		NUTONE	
Location	Model	cfm	HVI Sones
ENS	QTXEN050C	50	☒ 0.3
BATH	QTXEN050C	50	☒ 0.3
W/R	QTXEN050C	50	☒ 0.3

HEAT RECOVERY VENTILATOR		9.32.3.11.
Model:	VANEE 40H+	
77	cfm high	42 cfm low
66	% Sensible Efficiency	☒ HVI Approved
@ 32 deg F (0 deg C)		

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

BUILDER:		GOLD PARK 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-16

HEAT LOSS AND GAIN SUMMARY SHEET

MODEL: 25-1	BUILDER: GOLD PARK HOMES
SFQT: 1813	LO# 66853
	SITE: KLEINBURG GLEN

DESIGN ASSUMPTIONS

HEATING	°F	COOLING	°F
OUTDOOR DESIGN TEMP.	-4	OUTDOOR DESIGN TEMP.	88
INDOOR DESIGN TEMP.	72	INDOOR DESIGN TEMP. (MAX 75°F)	72

BUILDING DATA

ATTACHMENT:	DETACHED	# OF STORIES (+BASEMENT):	3
FRONT FACES:	WEST	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):	24703.0	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:	6.5 ft
LENGTH: 53.0 ft	WIDTH: 19.0 ft	EXPOSED PERIMETER:	144.0 ft

2012 OBC - COMPLIANCE PACKAGE

Component	Compliance Package
	J
Ceiling with Attic Space Minimum RSI (R)-Value	50
Ceiling Without Attic Space Minimum RSI (R)-Value	31
Exposed Floor Minimum RSI (R)-Value	31
Walls Above Grade Minimum RSI (R)-Value	22
Basement Walls Minimum RSI (R)-Value	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
Heated Slab or Slab ≤ 600 mm below grade Minimum RSI (R)-Value	10
Windows and Sliding Glass Doors Maximum U-Value	1.8
Skylights Maximum U-Value	2.8
Space Heating Equipment Minimum AFUE	0.94
HRV Minimum Efficiency	60%
Domestic Hot Water Heater Minimum EF	0.67

INDIVIDUAL BCIN: 19669
MICHAEL O'ROURKE



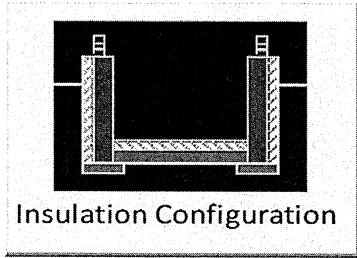
Air Infiltration Residential Load Calculator

Supplemental tool for CAN/CSA-F280

Weather Station Description				
Province:	Ontario ▼			
Region:	Vaughan (Woodbridge) ▼			
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):	6.71			
Building Configuration				
Type:	Detached ▼			
Number of Stories:	Two ▼			
Foundation:	Full ▼			
House Volume (m ³):	699.5			
Air Leakage/Ventilation				
Air Tightness Type:	Present (1961-) (ACH=3.57) ▼			
Custom BDT Data:	ELA @ 10 Pa. ▼ 716.42 cm² 3.57 ACH @ 50 Pa			
Mechanical Ventilation (L/s):	Total Supply:		Total Exhaust:	
	0		0	
Flue Size				
Flue #:	#1	#2	#3	#4
Diameter (mm):	0	0	0	0
Natural Infiltration Rates				
Heating Air Change Rate (ACH/H):			0.322	
Cooling Air Change Rate (ACH/H):			0.098	

Residential Foundation Thermal Load Calculator

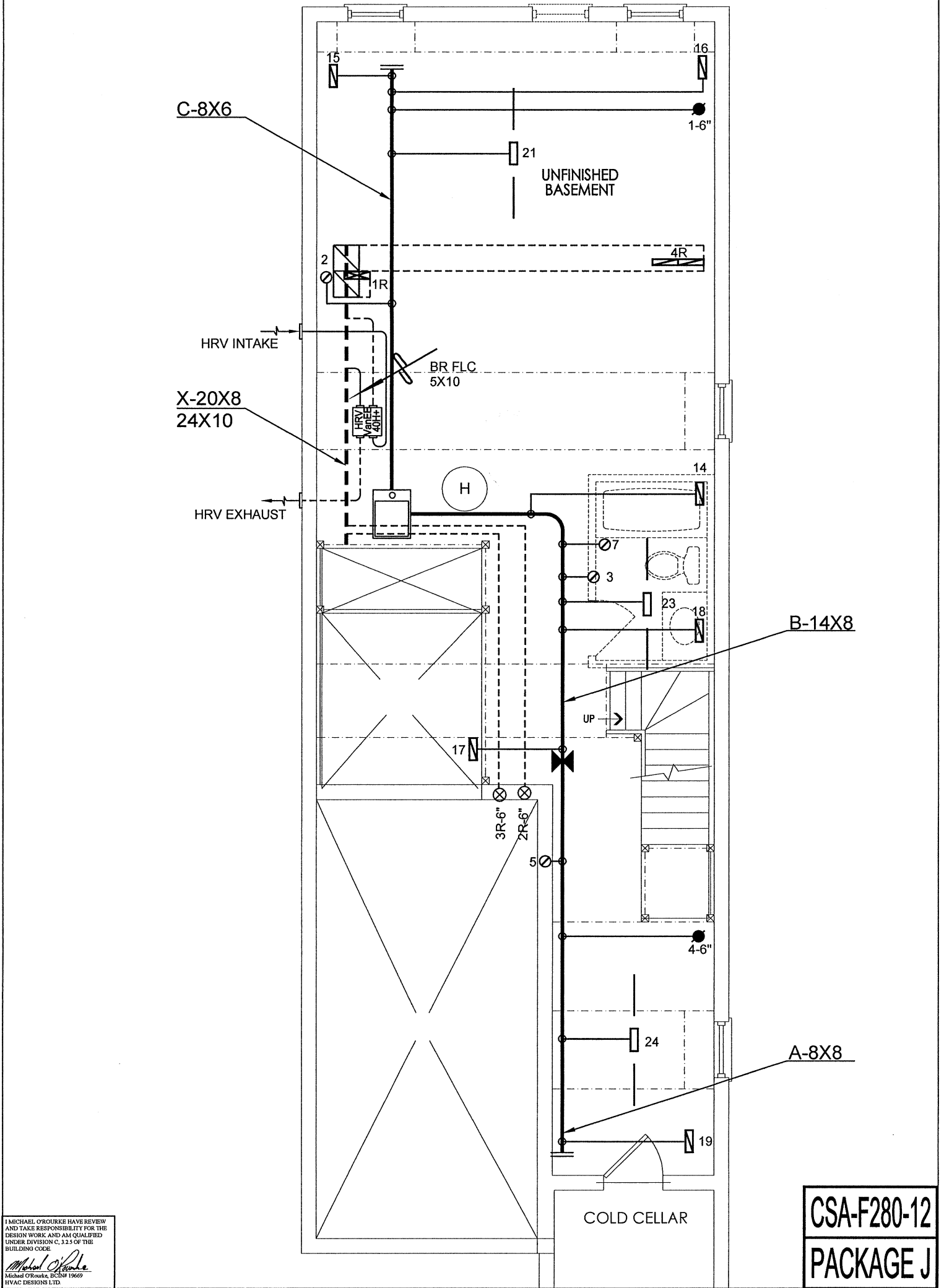
Supplemental tool for CAN/CSA-F280

Weather Station Description		
Province:	Ontario	▼
Region:	Vaughan (Woodbridge)	▼
Site Description		
Soil Conductivity:	Normal conductivity: dry sand, loam, clay	▼
Water Table:	Normal (7-10 m, 23-33 Ft)	▼
Foundation Dimensions		
Floor Length (m):	16.2	 Insulation Configuration
Floor Width (m):	5.8	
Exposed Perimeter (m):	0	
Wall Height (m):	2.7	
Depth Below Grade (m):	2	
Window Area (m ²):	1.1	
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):	1546	

44

2.6 117.7

116.9



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.

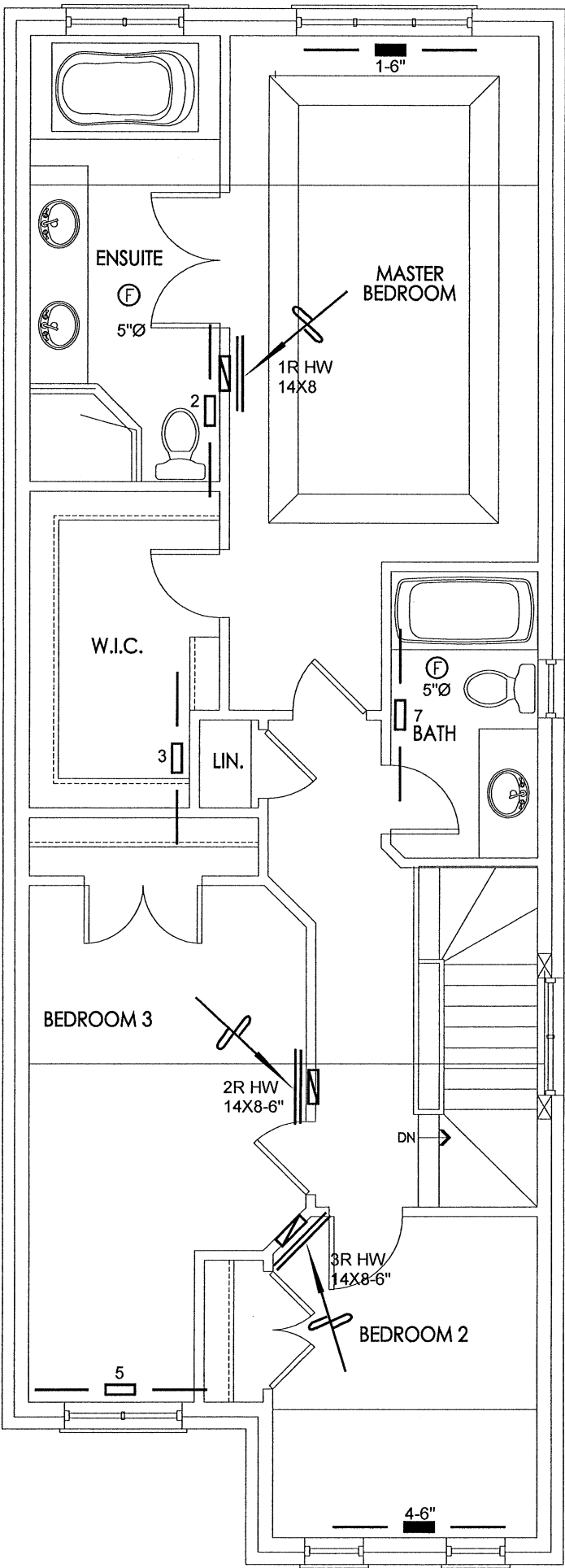
Michael O'Rourke
Michael O'Rourke, BCIN# 19669
HVAC DESIGNS LTD.

CSA-F280-12
PACKAGE J

HVAC LEGEND								3.		
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	2.		
	FLOOR SUPPLY AIR GRILLE		6" SUPPLY AIR BOOT ABOVE		14"x8" RETURN AIR GRILLE		RETURN AIR STACK ABOVE	1.		
	FLOOR 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		HVACDESIGNS 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	HEAT LOSS 39220 BTU/H UNIT DATA		# OF RUNS S/A R/A FANS				Sheet Title	
GOLD PARK HOMES			MAKE LENNOX	3RD FLOOR					BASEMENT HEATING LAYOUT	
Project Name KLEINBURG GLEN VAUGHAN, ONTARIO			MODEL EL195UH045XE24B-45	2ND FLOOR		6	3	2		
			INPUT 44 MBTU/H	1ST FLOOR		6	1	3	Date JAN/2016	
25-1			OUTPUT 42 MBTU/H	BASEMENT		3	1	0	Scale 3/16" = 1'-0"	
1813 sqft		COOLING 2.0 TONS			ALL S/A DIFFUSERS 4 "x10" UNLESS NOTED OTHERWISE ON LAYOUT. ALL S/A RUNS 5" UNLESS NOTED OTHERWISE ON LAYOUT. UNDERCUT DOORS 1" min. FOR R/A				BCIN# 19669	
		FAN SPEED 700 cfm @ 0.6" w.c.							LO# 66853	



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PACKAGE J

HVAC LEGEND								3.		
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	2.		
	FLOOR SUPPLY AIR GRILLE		6" SUPPLY AIR BOOT ABOVE		14"x8" RETURN AIR GRILLE		RETURN AIR STACK ABOVE	1.		
	FLOOR 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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GOLD PARK HOMES			SECOND FLOOR HEATING LAYOUT	
Project Name			Date	JAN/2016
KLEINBURG GLEN VAUGHAN, ONTARIO			Scale	3/16" = 1'-0"
		BCIN# 19669		
25-1		LO#		
1813 sqft		66853		