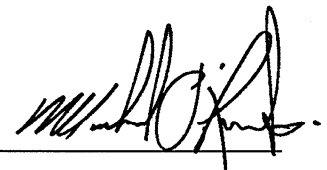


Schedule 1: Designer Information

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 BRAMPTON	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@hvacdsgns.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: 41-6 CNR Project: ENCORE	
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>March 7, 2017</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: ENCORE BUILDER: GOLD PARK HOMES			CNR TYPE: 41-6		GFA: 4202				DATE: Mar-17 LO# 72725		WINTER NATURAL AIR CHANGE RATE 0.404		HEAT LOSS AT °F. 74		CSA-F280-12 SB-12 PACKAGE A1	
ROOM USE	MBR	ENS	WIC	BED-2	BED-3	BED-4	BATH			ENS-2	WIC-2	DEN				
EXP. WALL	37	27	14	23	22	18	18			29	12	20				
CLG. HT.	10	9	9	10	10	10	9			9	12	9				
FACTORS																
GRS.WALL AREA	370	243	126	230	220	171	162			261	144	180				
GLAZING	LOSS GAIN	LOSS GAIN	LOSS GAIN	LOSS GAIN	LOSS GAIN	LOSS GAIN	LOSS GAIN			LOSS GAIN	LOSS GAIN	LOSS GAIN				
NORTH	0	0	0	0	0	16	0			0	0	0				
EAST	54	32	0	0	0	332	0			0	0	0				
SOUTH	20	0	0	37	0	0	0			0	0	0				
WEST	20	0	0	767	0	0	0			0	0	0				
SKYLT.	0	0	0	0	41	0	15			24	14	36				
DOORS	20.7	0	0	0	850	0	311			497	290	746				
NET EXPOSED WALL	4.3	917	548	839	778	155	639			1030	175	626				
NET EXPOSED BSMT WALL ABOVE GR	3.5	0	0	0	132	674	147			237	130	144				
EXPOSED CLG	1.2	209	0	362	206	322	110			280	0	0				
NO ATTIC EXPOSED CLG	2.7	0	0	193	59	0	0			43	0	0				
EXPOSED FLOOR	2.5	0	0	0	0	0	0			0	0	0				
BASEMENT/CRAWL HEAT LOSS	0	0	0	0	0	0	0			0	0	120				
SLAB ON GRADE HEAT LOSS	0	0	0	0	0	0	0			0	0	298				
SUBTOTAL HT LOSS	3239	1822	809	2160	1991	1327	1060			1850	855	1670				
SUB TOTAL HT GAIN	2899	1473	215	1241	1845	500	724			1229	623	1511				
LEVEL FACTOR / MULTIPLIER	0.10	0.10	0.10	0.10	0.10	0.10	0.10			0.20	0.20	0.20				
AIR CHANGE HEAT LOSS	655	368	163	437	403	268	214			542	250	489				
AIR CHANGE HEAT GAIN	159	81	12	68	101	27	40			67	34	83				
DUCT LOSS	0	0	0	0	0	0	0			0	0	216				
DUCT GAIN	0	0	0	0	0	0	0			0	0	219				
HEAT GAIN PEOPLE	240	1	0	1	240	1	0			0	0	0				
HEAT GAIN APPLIANCES/LIGHTS	592	0	0	592	592	592	592			0	0	0				
TOTAL HT LOSS BTU/H	3894	2191	972	2597	2394	1596	1274			2392	1105	2374				
TOTAL HT GAIN x 1.3 BTU/H	5370	2332	295	2783	3611	1767	1763			1685	854	3126				

ROOM USE	FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS		FACTORS	
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SITE NAME: ENCORE
BUILDER: GOLD PARK HOMES

CNR
TYPE: 41-6

DATE: Mar-17

GFA: 4202

LO# 72725

HEATING CFM	1525	COOLING CFM	1525
TOTAL HEAT LOSS	71,334	TOTAL HEAT GAIN	48,814
AIR FLOW RATE CFM	21.38	AIR FLOW RATE CFM	31.24

parameter	value
furnace pressure	0.05
a/c coil pressure	0.2
available pressure for a/c	0.25

EL195UH090XE48C 90
FAN SPEED

AFUE = 95 %
INPUT (BTU/H) = 88,000
OUTPUT (BTU/H) = 84,000

RUN COUNT	4th	3rd	2nd	1st	Bas
S/A	0	9	12	4	4
R/A	0	4	2	1	1

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

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

1		2		3		4		5		6		BATH		/		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24	
1		2		3		4		5		6		BATH		/		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24	
1		2		3		4		5		6		BATH		/		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24	
1		2		3		4		5		6		BATH		/		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24	
1		2		3		4		5		6		BATH		/		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24	
1		2		3		4		5		6		BATH		/		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24	
1		2		3		4		5		6		BATH		/		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24	
1		2		3		4		5		6		BATH		/		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24	
1		2		3		4		5		6		BATH		/		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24	
1		2		3		4		5		6		BATH		/		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24	
1		2		3		4		5		6		BATH		/		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24	
1		2		3		4		5		6		BATH		/		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24	
1		2		3		4		5		6		BATH		/		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24	
1		2		3		4		5		6		BATH		/		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24	
1		2		3		4		5		6		BATH		/		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24	
1		2		3		4		5		6		BATH		/		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24	
1		2		3		4		5		6		BATH		/		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24	
1		2		3		4		5		6		BATH		/		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24	
1		2		3		4		5		6		BATH		/		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24	
1		2		3		4		5		6		BATH		/		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24	
1		2		3		4		5		6		BATH		/		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24	
1		2		3		4		5		6		BATH		/		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24	
1		2		3		4		5		6		BATH		/		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24	
1		2		3		4		5		6		BATH		/		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24	
1		2		3		4		5		6		BATH		/		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24	
1		2		3		4		5		6		BATH		/		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24	
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1		2		3		4		5		6		BATH		/		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24	
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1		2		3		4		5		6		BATH		/		7		8		9		10		11		12		13		14		15		16		17		18</													

ROOM NAME	25	26	27	28	29	30	31
WIC-2	WIC-1	KT/FM	DIN	REC	REC	REC	FOY-2
RM LOSS MBH.	1.11	2.09	1.73	3.41	3.41	3.41	5.09
CFM PER RUN HEAT	24	45	37	73	73	73	109
RM GAIN MBH.	0.85	2.35	1.97	2.23	2.23	2.23	0.61
CFM PER RUN COOLING	27	73	62	70	70	70	19
ADJUSTED PRESSURE	0.17	0.17	0.17	0.17	0.17	0.17	0.15
ACTUAL DUCT LGH.	55	38	34	18	33	22	11
EQUIVALENT LENGTH	140	100	130	110	100	110	120
TOTAL EFFECTIVE LENGTH	195	138	164	128	133	132	131
ADJUSTED PRESSURE	0.09	0.12	0.1	0.13	0.13	0.13	0.12
ROUND DUCT SIZE	4	5	5	5	5	5	6
HEATING VELOCITY (ft/min)	275	330	272	536	536	536	556
COOLING VELOCITY (ft/min)	310	536	455	514	514	514	97
OUTLET GRILL SIZE	3X10	3X10	3X10	3X10	3X10	3X10	4X10
TRUNK	C	B	D	F	F	D	D

SUPPLY AIR TRUNK SIZE					RETURN AIR TRUNK SIZE					VELOCITY (ft/min)				
TRUNK CFM	STATIC PRESS.	ROUND DUCT	RECT DUCT	VELOCITY (ft/min)	TRUNK CFM	STATIC PRESS.	ROUND DUCT	RECT DUCT	VELOCITY (ft/min)	TRUNK CFM	STATIC PRESS.	ROUND DUCT	RECT DUCT	VELOCITY (ft/min)
TRUNK A	8.8	10	16	8	477	0	0	0	8	0	0.06	0	0	8
TRUNK B	639	12.7	16	10	575	TRUNK G	0	0	8	0	0.06	0	0	8
TRUNK C	185	7.5	6	8	555	TRUNK H	0	0	8	0	0.06	0	0	8
TRUNK D	554	11.2	16	8	623	TRUNK I	0	0	8	0	0.06	0	0	8
TRUNK E	0	0	0	8	0	TRUNK J	0	0	8	0	0.06	0	0	8
TRUNK F	334	8.2	10	8	601	TRUNK K	0	0	8	0	0.06	0	0	8
						TRUNK L	0	0	8	0	0.06	0	0	8

RETURN AIR #	1	2	3	4	5	6	7	BR
AIR VOLUME	130	120	85	130	205	310	360	0
PLENUM PRESSURE	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
ACTUAL DUCT LGH.	47	53	46	60	31	34	14	1
EQUIVALENT LENGTH	165	215	175	195	155	200	145	0
TOTAL EFFECTIVE LH	212	268	221	255	186	234	159	1
ADJUSTED PRESSURE	0.07	0.06	0.07	0.06	0.08	0.06	0.09	0.09
ROUND DUCT SIZE	6.8	6.8	5.8	7	7.7	9.7	9.3	7.2
INLET GRILL SIZE	X	X	X	X	X	X	X	X
INLET GRILL SIZE	14	14	14	14	14	30	30	14

TYPE: 41-6
SITE NAME: ENCORE

LO # 72725
CNR

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>3</u> @ 10.6 cfm	<u>31.8</u> cfm
Kitchen & Bathrooms	<u>5</u> @ 10.6 cfm	<u>53</u> cfm
Other Rooms	<u>6</u> @ 10.6 cfm	<u>63.6</u> cfm
Table 9.32.3.A.	TOTAL	<u>190.8</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
More than 5 - Part 6	TOTAL	<u>79.5</u> cfm

SUPPLEMENTAL VENTILATION CAPACITY		9.32.3.5.
Total Ventilation Capacity	<u>190.8</u>	cfm
Less Principal Ventil. Capacity	<u>139</u>	cfm
Required Supplemental Capacity	<u>51.8</u>	cfm

PRINCIPAL EXHAUST FAN CAPACITY	
Model: VANEE 60H-V+	Location: BSMT
<u>139.0</u> cfm	<u>3.0</u> sones
☒	HVI Approved

PRINCIPAL EXHAUST HEAT LOSS CALCULATION			
CFM	ΔT °F	FACTOR	% LOSS
139.0 CFM	X 74 F	X 1.08	X 0.25

SUPPLEMENTAL FANS		NUTONE	cfm	HVI	Sones
Location	Model				
ENS	QTXEN050C	50	☒	0.3	
BATH	QTXEN050C	50	☒	0.3	
ENS-2	QTXEN050C	50	☒	0.3	
W/R	QTXEN050C	50	☒	0.3	

HEAT RECOVERY VENTILATOR		9.32.3.11.
Model: VANEE 60H-V+		
<u>139</u> cfm high	<u>50</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: 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:	March-17

HEAT LOSS AND GAIN SUMMARY SHEET

MODEL: 41-6	CNR	BUILDER: GOLD PARK HOMES
SFQT: 4202	LO# 72725	SITE: ENCORE

DESIGN ASSUMPTIONS

HEATING	°F	COOLING	°F
OUTDOOR DESIGN TEMP.	-2	OUTDOOR DESIGN TEMP.	86
INDOOR DESIGN TEMP.	72	INDOOR DESIGN TEMP. (MAX 75°F)	73

BUILDING DATA

ATTACHMENT:	DETACHED	# OF STORIES (+BASEMENT):	4
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):	46877.8	ASSUMED (Y/N):	Y
INTERNAL SHADING:	BLINDS/CURTAINS	ASSUMED OCCUPANTS:	5
INTERIOR LIGHTING LOAD (Btu/h/ft²):	1.27	DC BRUSHLESS MOTOR (Y/N):	Y
FOUNDATION CONFIGURATION	BCIN_1	DEPTH BELOW GRADE:	6.2 ft
LENGTH: 47.0 ft	WIDTH: 35.0 ft	EXPOSED PERIMETER:	164.0 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	29.8
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	-

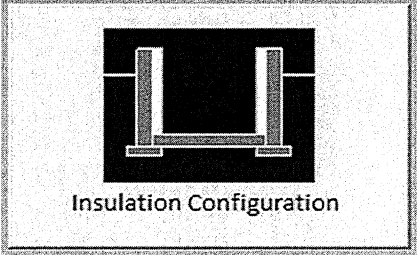
INDIVIDUAL BCIN: 19669

MICHAEL O'ROURKE



Residential Foundation Thermal Load Calculator

Supplemental tool for CAN/CSA-F280

Weather Station Description		
Province:	Ontario	
Region:	Brampton	
Site Description		
Soil Conductivity:	Normal conductivity: dry sand, loam, clay	
Water Table:	Normal (7-10 m, 23-33 ft)	
Foundation Dimensions		
Floor Length (m):	14.3	 Insulation Configuration
Floor Width (m):	10.7	
Exposed Perimeter (m):	0.0	
Wall Height (m):	2.7	
Depth Below Grade (m):	1.9	
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):		1567

TYPE: 41-6
LO# 72725

CNR

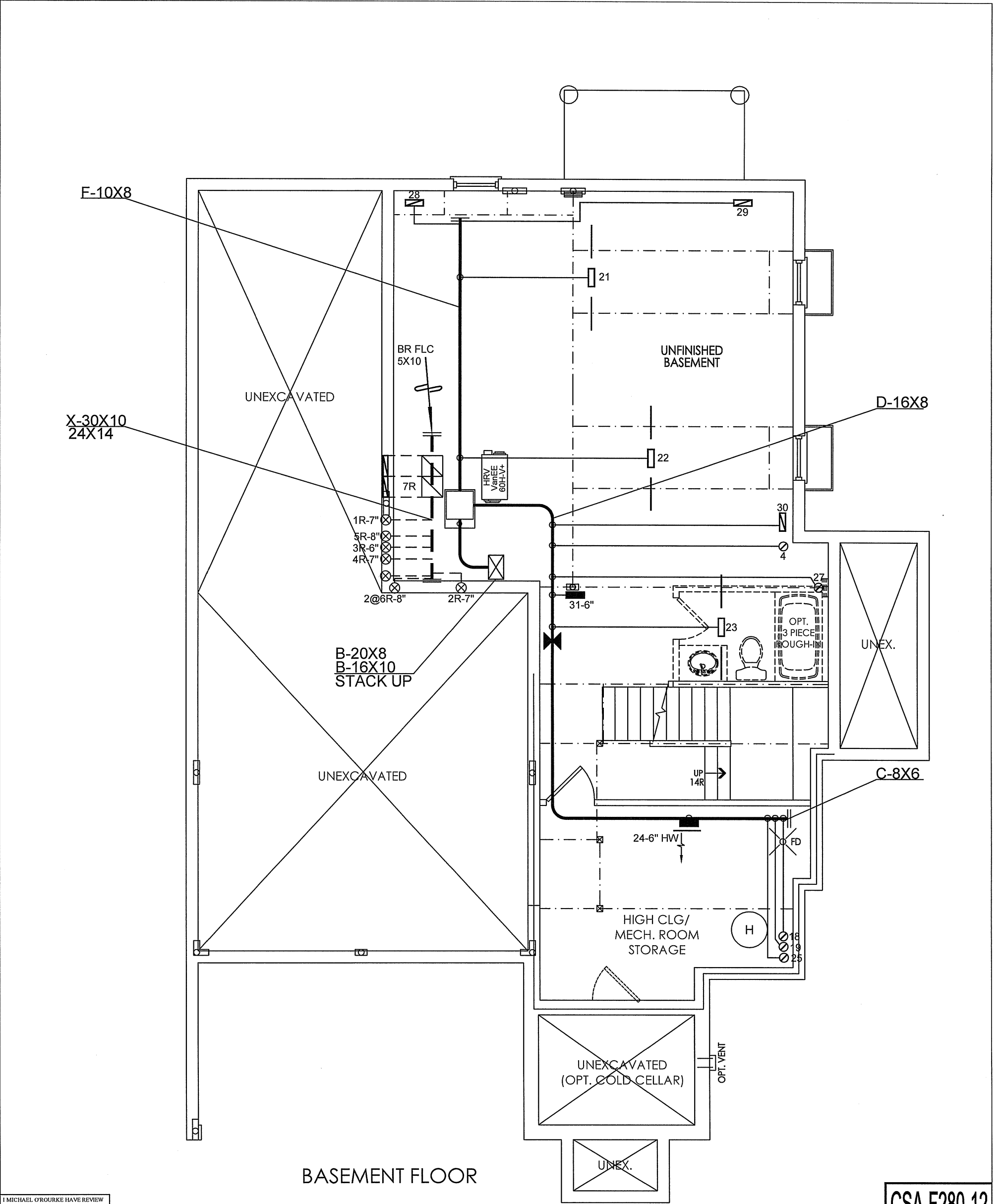
Air Infiltration Residential Load Calculator

Supplemental tool for CAN/CSA-F280

Weather Station Description				
Province:	Ontario			
Region:	Brampton			
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):	9.30			
Building Configuration				
Type:	Detached			
Number of Stories:	Three			
Foundation:	Full			
House Volume (m ³):	1327.4			
Air Leakage/Ventilation				
Air Tightness Type:	Present (1961-) (3.57 ACH)			
Custom BDT Data:	ELA @ 10 Pa.	1769.5 cm ²		
	3.57	ACH @ 50 Pa		
Mechanical Ventilation (L/s):	Total Supply	Total Exhaust		
	65.6	65.6		
Flue Size				
Flue #:	#1	#2	#3	#4
Diameter (mm):	0	0	0	0
Natural Infiltration Rates				
Heating Air Leakage Rate (ACH/H):	0.404			
Cooling Air Leakage Rate (ACH/H):	0.138			

TYPE: 41-6
LO# 72725

CNR



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.

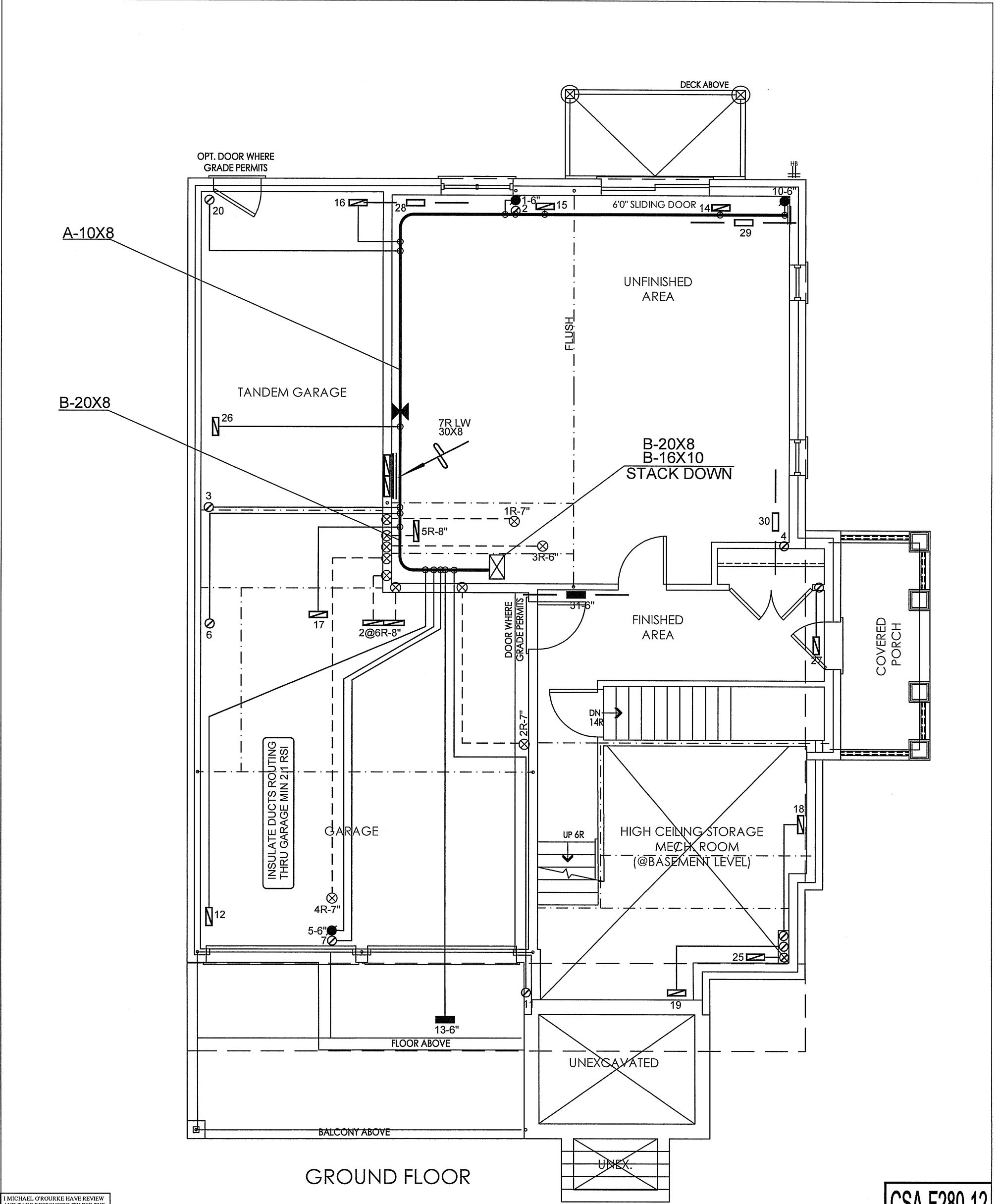
Michael O'Rourke
Michael O'Rourke, BCIN# 19669
HVAC DESIGNS LTD.

CSA-F280-12
PACKAGE A1

HVAC LEGEND						3.		
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	2.		
	FLOOR SUPPLY AIR GRILLE		6" SUPPLY AIR BOOT ABOVE		14"x8" RETURN AIR GRILLE	1.		
	FLOOR SUPPLY AIR GRILLE 6" BOOT		SUPPLY AIR STACK FROM 2nd FLOOR		30"x8" RETURN AIR GRILLE	No.	Description	Date
	SUPPLY AIR BOOT ABOVE		6" SUPPLY AIR STACK 2nd FLOOR		FRA- FLOOR RETURN AIR GRILLE	REVISIONS		
					REDUCER			

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Client	 375 Finley Ave - Unit 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 74111 BTU/H UNIT DATA		# OF RUNS S/A R/A FANS			Sheet Title		
GOLD PARK HOMES		MAKE LENNOX	3RD FLOOR		9	4	4	BASEMENT HEATING LAYOUT	
Project Name ENCORE BRAMPTON, ONTARIO		MODEL EL296UH090XE48C-90	2ND FLOOR		12	2	3		
		INPUT 88 MBTU/H	1ST FLOOR		4	1	0		
		OUTPUT 84 MBTU/H	BASEMENT		4	1	0		
CNR 41-6	4202 sqft	COOLING 4.0 TONS	ALL S/A DIFFUSERS 4"x10" UNLESS NOTED OTHERWISE ON LAYOUT. ALL S/A RUNS 5"Ø UNLESS NOTED OTHERWISE ON LAYOUT. UNDERCUT DOORS 1" min. FOR R/A				Date MAR/2017		
		FAN SPEED 1525 cfm @ 0.5" w.c.					Scale 3/16" = 1'-0"		
						BCIN# 19669			
						LO#	72725		



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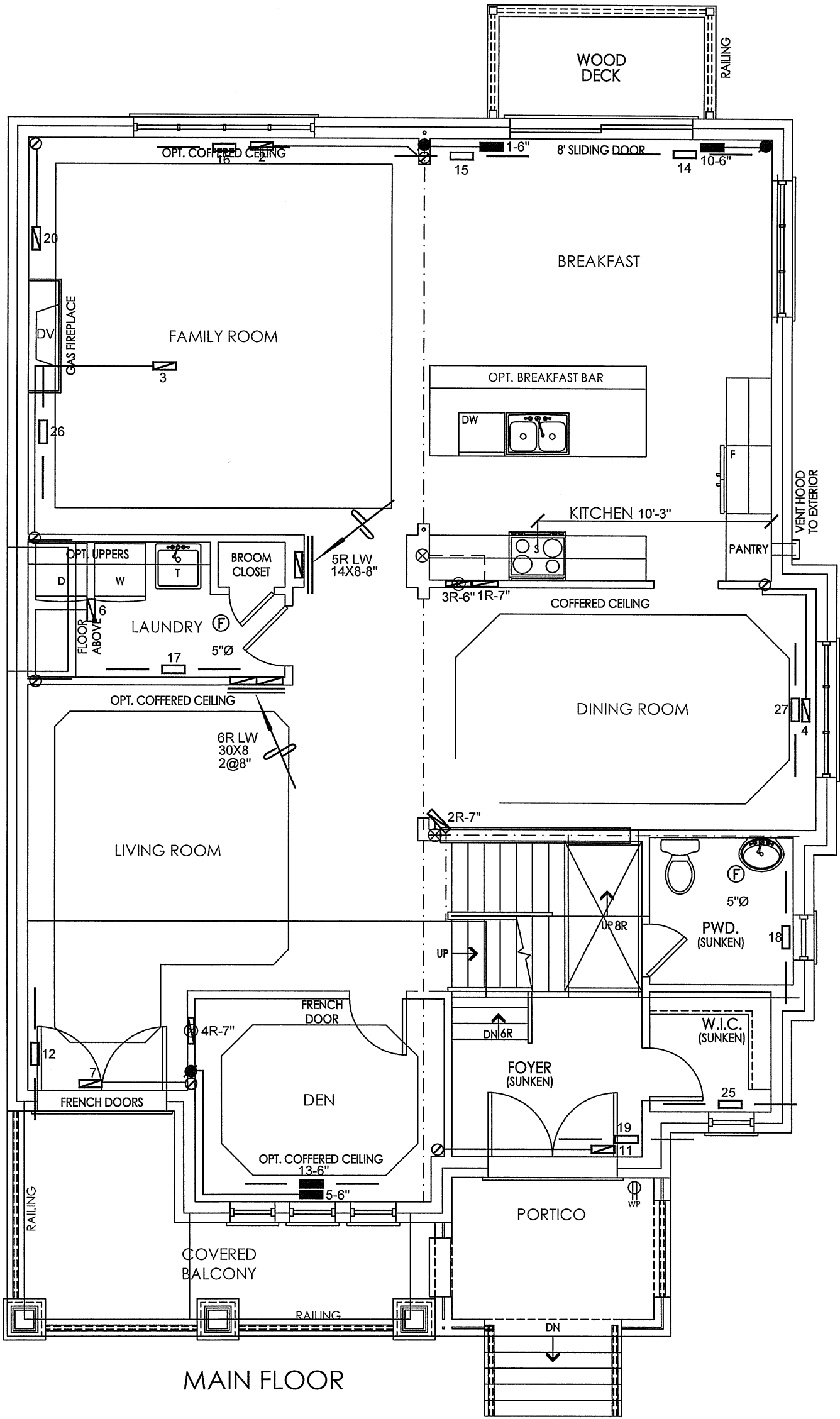
Michael O'Rourke
Michael O'Rourke, BCIN# 19669
HVAC DESIGNS LTD.

CSA-F280-12
PACKAGE A1

HVAC LEGEND								3.		
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	2.		
	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		 375 Finley Ave - Unit 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	Sheet Title	
GOLD PARK HOMES			FIRST FLOOR HEATING LAYOUT	
Project Name ENCORE BRAMPTON, ONTARIO			Date	MAR/2017
CNR 41-6			Scale	3/16" = 1'-0"
		BCIN# 19669		
		LO#	72725	
4202 sqft		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.		



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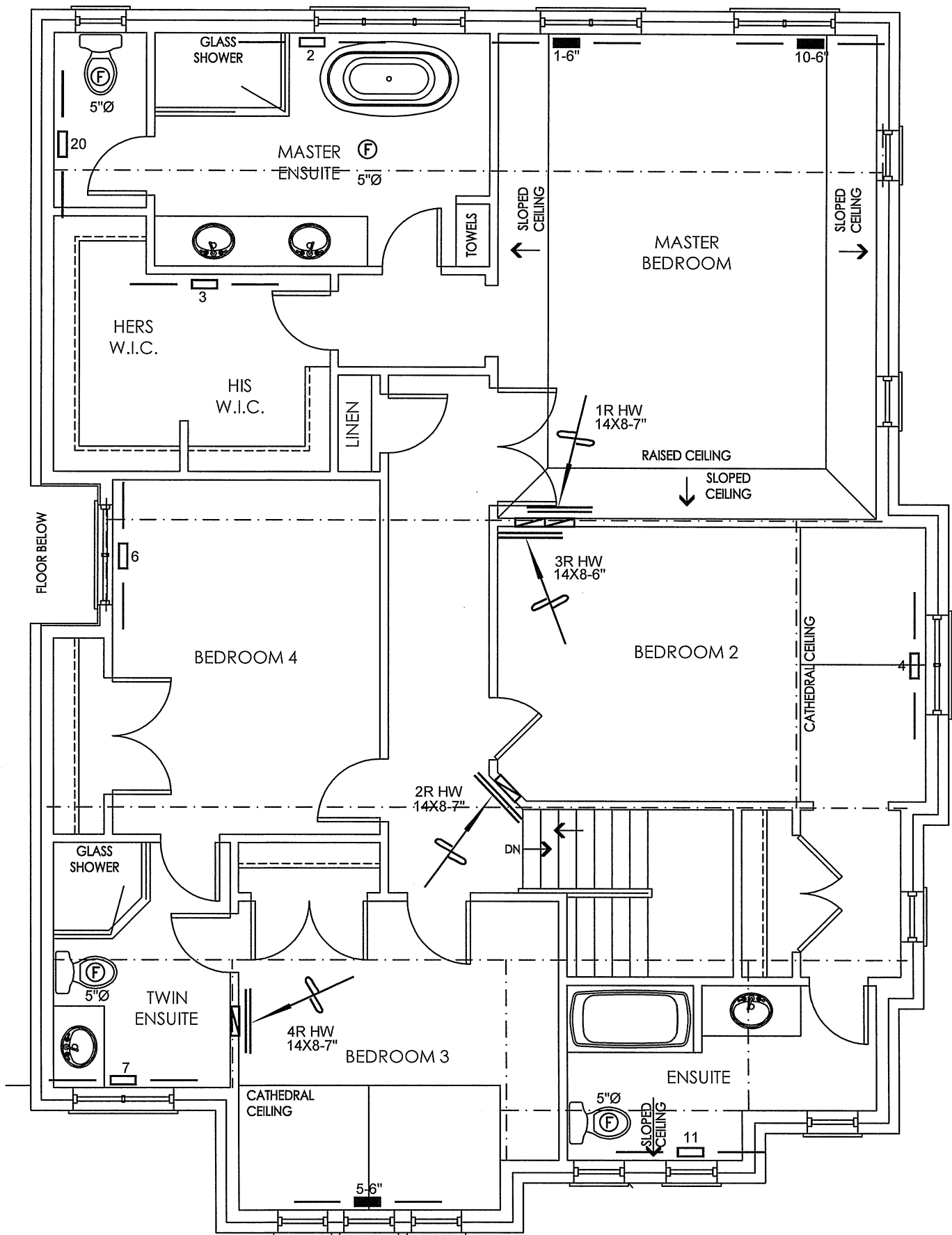
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CSA-F280-12
PACKAGE A1

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		 375 Finley Ave - Unit 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	Sheet Title	
GOLD PARK HOMES			SECOND FLOOR HEATING LAYOUT	
Project Name			Date	MAR/2017
ENCORE BRAMPTON, ONTARIO			Scale	3/16" = 1'-0"
CNR 41-6		BCIN# 19669		
		LO# 72725		
4202 sqft		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.		



SECOND FLOOR

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 A1

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 GOLD PARK HOMES		 375 Finley Ave - Unit 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 THIRD FLOOR HEATING LAYOUT	
Project Name ENCORE BRAMPTON, ONTARIO			Date MAR/2017	
CNR 41-6			Scale 3/16" = 1'-0"	
4202 sqft			BCIN# 19669	
			LO# 72725	