


Type in the text you want to insert

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 MODEL CERTIFICATION		Unit no. N/A	Lot/con. N/A
Municipality KING CITY	Postal code N/A	Plan number/ other description N/A	
B. Individual who reviews and takes responsibility for design activities			
Name MICHAEL O'ROURKE		Firm HVAC DESIGNS LTD.	
Street address 65 CHURCH STREET SOUTH		Unit no.	Lot/con.
Municipality AJAX	Postal code L1S 6A7	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]			
<input type="checkbox"/> House <input type="checkbox"/> HVAC – House <input type="checkbox"/> Building Structural <input type="checkbox"/> Small Buildings <input type="checkbox"/> Building Services <input type="checkbox"/> Plumbing – House <input type="checkbox"/> Large Buildings <input type="checkbox"/> Detection, Lighting and Power <input type="checkbox"/> Plumbing – All Buildings <input type="checkbox"/> Complex Buildings <input type="checkbox"/> Fire Protection <input type="checkbox"/> On-site Sewage Systems			
Description of designer's work Heat Loss/Gain Calculations Duct Sizing Residential Mechanical Ventilation Design Summary Residential System Design per Can/CSA-F280-M90		Model: 50-13 Project: CASTLES OF KING CITY	
D. Declaration of Designer			
I, <u>MICHAEL O'ROURKE</u> declare that (choose one as appropriate): (print name)			
<input type="checkbox"/> 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: _____			
<input checked="" type="checkbox"/> 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: <u>O.B.C. SENTENCE 3.2.4.1.(4)</u>			
<input type="checkbox"/> 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 29, 2014</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.

ROOM USE	MBR	ENS	WIC	BED-2	BED-3	BED-4	ENS-3	STDY	TWR	ENS-2	WIC-2	ENS-4
EXP. WALL	39	22	0	37	27	45	6	9	37	6	0	5
RM AREA	306	195	72	292	320	286	66	153	301	126	63	85
CLG. HT.	11	10	10	10	10	10	10	10	13	10	9	9
COLD FLOOR	0	0	0	0	8	286	66	0	0	0	0	0
COLD CEILING	306	195	72	292	300	286	66	153	301	126	63	85
NO ATTIC EXPOSED CLG	0	0	0	0	20	0	0	0	0	0	0	0
GROSS WALL BAS ABOVE GRADE	0	0	0	0	0	0	0	0	0	0	0	0
GROSS WALL BAS BELOW GRADE	0	0	0	0	0	0	0	0	0	0	0	0
FACTORS												
GRS. WALL AREA	429	220	0	370	270	450	60	90	481	60	0	45
GLAZING	0	0	0	0	0	0	0	0	0	0	0	0
NORTH	19.50	13.96	0	0	0	0	0	15	293	0	0	5
EASTWEST	54	1053	1762	488	39	644	9	176	1320	13	254	98
SOUTH	19.50	20.92	0	12	234	251	0	0	28	507	544	0
SKYLT.	19.50	136.72	0	0	0	0	0	0	0	0	0	0
DOORS	25.91	4.98	10	333	974	187	51	219	42	415	1214	233
NET EXPOSED WALL	2.92	0.56	0	0	0	0	0	0	0	0	0	0
NET EXPOSED WALL BAS ABOVE GR	3.60	0.45	0	0	0	0	0	0	0	0	0	0
EXPOSED CLG	1.48	0.70	0	292	433	206	66	153	227	108	187	89
NO ATTIC EXPOSED CLG	2.42	1.15	0	0	20	48	0	0	0	0	0	0
EXPOSED FLOOR	2.36	0.45	0	0	8	19	66	156	30	0	0	0
EXPOSED WALL BAS ABOVE GRADE	22.00	0	0	0	0	0	0	0	0	0	0	0
BELOW GRADE HT LOSS FLOOR	1.08	0	0	0	0	0	0	0	0	0	0	0
SUBTOTAL HT LOSS	3000	1480	107	2129	1469	1655	579	739	2947	578	94	341
SUB TOTAL HT GAIN	918	453	33	652	597	907	177	226	902	177	29	104
HT LOSS AIR LEAKAGE FACTOR	0.306	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096
HT GAIN AIR LEAKAGE FACTOR	240	240	140	240	240	240	240	240	240	240	240	240
HT GAIN PEOPLE/APPLIANCES	240	240	140	240	240	240	240	240	240	240	240	240
TOTAL HT LOSS BTU/H	3918	1933	140	2781	2405	2670	756	985	3850	755	122	445
TOTAL HT GAIN x 1.3 BTU/H	4124	2210	72	2405	2670	2670	573	824	3291	776	63	217

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.

INDIVIDUAL BCIN: 19669

MICHAEL O'ROURKE

ROOM USE	LIB	DIN	KITRM	PANT	LAUN	WIR	FOY	DEN	R3	R4	WOB	BAS
EXP. WALL	20	42	91	31	14	6	8	17	0	0	0	228
RM AREA	0	0	0	99	0	0	0	0	0	0	0	0
CLG. HT.	10	10	10	10	11	10	10	10	9	9	9	9
COLD FLOOR	0	0	0	0	0	0	0	0	0	0	0	0
COLD CEILING	0	0	0	0	0	0	0	0	0	0	0	0
NO ATTIC EXPOSED CLG	0	0	0	0	0	0	0	0	0	0	0	0
GROSS WALL BAS ABOVE GRADE	0	0	0	0	0	0	0	0	0	0	0	684
GROSS WALL BAS BELOW GRADE	0	0	0	0	0	0	0	0	0	0	0	1368
FACTORS												
GRS. WALL AREA	200	420	910	310	154	60	80	170	0	0	0	0
GLAZING	0	0	0	0	0	0	0	0	0	0	0	0
NORTH	19.50	13.96	0	0	0	0	0	0	0	0	0	0
EASTWEST	36	702	1188	429	726	0	13	702	1188	0	0	10
SOUTH	14	273	293	0	0	8	156	167	293	0	0	10
SKYLT.	19.50	20.92	0	0	0	0	0	0	0	0	0	0
DOORS	25.91	4.98	10	259	50	0	28	726	140	0	0	40
NET EXPOSED WALL	2.92	0.56	0	0	0	0	0	0	0	0	0	0
NET EXPOSED WALL BAS ABOVE GR	3.60	0.45	0	0	0	0	0	0	0	0	0	0
EXPOSED CLG	1.48	0.70	0	0	0	0	0	0	0	0	0	0
NO ATTIC EXPOSED CLG	2.42	1.15	0	0	0	0	0	0	0	0	0	0
EXPOSED FLOOR	2.36	0.45	0	0	0	0	0	0	0	0	0	0
EXPOSED WALL BAS ABOVE GRADE	22.00	0	0	0	0	0	0	0	0	0	0	222
BELOW GRADE HT LOSS FLOOR	1.08	0	0	0	0	0	0	0	0	0	0	2040
SUBTOTAL HT LOSS	1414	1974	5577	1511	910	308	1093	1326	0	0	0	10897
SUB TOTAL HT GAIN	433	604	1707	463	279	94	335	406	0	0	0	3337
HT LOSS AIR LEAKAGE FACTOR	0.306	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096
HT GAIN AIR LEAKAGE FACTOR	240	240	240	240	240	240	240	240	240	240	240	240
HT GAIN PEOPLE/APPLIANCES	240	240	240	240	240	240	240	240	240	240	240	240
TOTAL HT LOSS BTU/H	1847	2579	7284	1973	1189	402	1428	1732	0	0	0	14234
TOTAL HT GAIN x 1.3 BTU/H	2543	2729	9551	1427	2121	280	842	2519	0	0	0	1482

TOTAL HEAT GAIN BTU/H

4.03 TONS

LOSS DUE TO VENTILATION LOAD BTU/H

19645

TOTAL STRUCTURE HEAT LOSS BTU/H

54747

TOTAL COMBINED HEAT LOSS BTU/H

74392

Specializing in Residential Mechanical Design Services

C

TYPE: 50

furnace filter	0.025
a/c coil pressure	0.2
available pressure	

MEDLOW MEDIUM 1460 DESIGN CFM = 1460

MEDIUM HIGH 1675 TEMPERATURE RISE 54 DEGF.

15	16	17	18	19	20	21	22	23	24
KT/M	KT/M	LAUN	W/R	FOY	DEN	BAS	BAS	BAS	BAS
1.82	1.82	1.19	0.40	1.43	1.73	2.37	2.37	2.37	2.37
49	49	32	11	38	46	63	63	63	63
2.39	2.39	2.12	0.28	0.84	2.52	0.25	0.25	0.25	0.25
80	80	71	9	28	85	8	8	8	8
0.13	0.13	0.13	0.13	0.125	0.13	0.13	0.13	0.13	0.13
30	30	19	39	43	45	44	33	31	39
150	170	170	130	170	170	110	130	120	180
180	200	189	169	213	215	154	163	151	219
0.07	0.06	0.07	0.07	0.06	0.06	0.08	0.08	0.08	0.06
6	6	5	5	5	6	5	5	5	5
4X10	4X10	3X10	3X10	3X10	4X10	3X10	3X10	3X10	3X10
D	D	C	C	A	B	E	D	E	C

[illegible]

RETURN AIR TRUNK SIZE				
	TRUNK CFM	STATIC PRESS.	ROUND DUCT	RECT DUCT
10	TRUNK O	0	0.04	0
8	TRUNK P	0	0.04	0
8	TRUNK Q	0	0.04	0
8	TRUNK R	0	0.04	0
8	TRUNK S	0	0.04	0

[illegible]

	TRUNK	STATIC	ROUND	RECT
100	100	100	100	100
200	100	100	100	100
300	100	100	100	100
400	100	100	100	100
500	100	100	100	100
600	100	100	100	100
700	100	100	100	100
800	100	100	100	100
900	100	100	100	100
1000	100	100	100	100
1100	100	100	100	100
1200	100	100	100	100
1300	100	100	100	100
1400	100	100	100	100
1500	100	100	100	100
1600	100	100	100	100
1700	100	100	100	100
1800	100	100	100	100
1900	100	100	100	100
2000	100	100	100	100
2100	100	100	100	100
2200	100	100	100	100
2300	100	100	100	100
2400	100	100	100	100
2500	100	100	100	100
2600	100	100	100	100
2700	100	100	100	100
2800	100	100	100	100
2900	100	100	100	100
3000	100	100	100	100
3100	100	100	100	100
3200	100	100	100	100
3300	100	100	100	100
3400	100	100	100	100
3500	100	100	100	100
3600	100	100	100	100
3700	100	100	100	100
3800	100	100	100	100
3900	100	100	100	100
4000	100	100	100	100
4100	100	100	100	100
4200	100	100	100	100
4300	100	100	100	100
4400	100	100	100	100
4500	100	100	100	100
4600	100	100	100	100
4700	100	100	100	100
4800	100	100	100	100
4900	100	100	100	100
5000	100	100	100	100
5100	100	100	100	100
5200	100	100	100	100
5300	100	100	100	100
5400	100	100	100	100
5500	100	100	100	100
5600	100	100	100	100
5700	100	100	100	100
5800	100	100	100	100
5900	100	100	100	100
6000	100	100	100	100
6100	100	100	100	100
6200	100	100	100	100
6300	100	100	100	100
6400	100	100	100	100
6500	100	100	100	100
6600	100	100	100	100
6700	100	100	100	100
6800	100	100	100	100
6900	100	100	100	100
7000	100	100	100	100
7100	100	100	100	100
7200	100	100	100	100
7300	100	100	100	100
7400	100	100	100	100
7500	100	100	100	100
7600	100	100	100	100
7700	100	100	100	100
7800	100	100	100	100
7900	100	100	100	100
8000	100	100	100	100
8100	100	100	100	100
8200	100	100	100	100
8300	100	100	100	100
8400	100	100	100	100
8500	100	100	100	100
8600	100	100	100	100
8700				

CFM PRESS. D

WORK AND AM QUALIFIED IN THE
ATE CATEGORY AS AN
DESIGNER" UNDER DIVISION C, 3.2.5
BIDDING CODE.

M. O'Rourke
MICHAEL O'ROURKE
RCIN: 19669

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. INDIVIDUAL BCIN: 19669

REVIEW AND TAKE RESPONSIBILITY

TYPE: 50-13

LO # 53765

MICHAEL O'ROURKE

PAGE 3 of 3

SITE NAME: CASTLES OF KING

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	3	@ 10.6 cfm	31.8	cfm
Kitchen & Bathrooms	6	@ 10.6 cfm	63.6	cfm
Other Rooms	9	@ 10.6 cfm	95.4	cfm
Table 9.32.3.A	TOTAL		233.2	cfm

PRINCIPAL VENTILATION CAPACITY REQUIRED 9.32.3.4.(1)

Master Bedroom	31.8	cfm
Two Bedrooms	47.7	cfm
Three Bedrooms	63.6	cfm
Four Bedrooms	79.5	cfm
Table 9.32.3.B.	TOTAL	79.5 cfm

More than 5 - Part 6

SUPPLEMENTAL VENTILATION CAPACITY 9.32.3.5.

Total Ventilation Capacity	233.2	cfm
Less Principal Ventil. Capacity	120	cfm
Required Supplemental Capacity	113.2	cfm

PRINCIPAL EXHAUST FAN CAPACITY

Model:	VANEE 90H-V ECM	Location:	BSMT
120	cfm	<input checked="" type="checkbox"/>	HVI Approved
	0.6		sones

SUPPLEMENTAL FANS		NUTONE		HVI		Sones
Location	Model	cfm				
ENS	QTXEN050C	50	<input checked="" type="checkbox"/>			0.3
ENS-2	QTXEN050C	50	<input checked="" type="checkbox"/>			0.3
ENS-3	QTXEN050C	50	<input checked="" type="checkbox"/>			0.3
W/R	QTXEN050C	50	<input checked="" type="checkbox"/>			0.3

HEAT RECOVERY VENTILATOR 9.32.3.11.

Model:	VANEE 90H-V ECM		
159	cfm high	65	cfm low
75	% Sensible Efficiency @ 32 deg F (0 deg C)	<input checked="" type="checkbox"/>	HVI Approved

LOCATION OF INSTALLATION

Lot: Concession
Township: Plan:
Address:
Roll # Building Permit #

BUILDER

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: *Michael O'Rourke*

HRAI # 001820

Date: January-14

MODEL: 50-13
SFQT: 4288

LO# 53765

BUILDER: ZANCOR HOMES

ENERGYSTAR 12.1

Component**Compliance Package****ZONE 1**

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	24
Basement Walls Minimum RSI (R)-Value	20
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


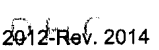
ZONE C

Windows and Sliding Glass Doors Maximum U-Value	2.8
Skylights Maximum U-Value	95%
Space Heating Equipment Minimum AFUE	75%
HRV Minimum Efficiency	0.9
Domestic Hot Water Heater Minimum EF	



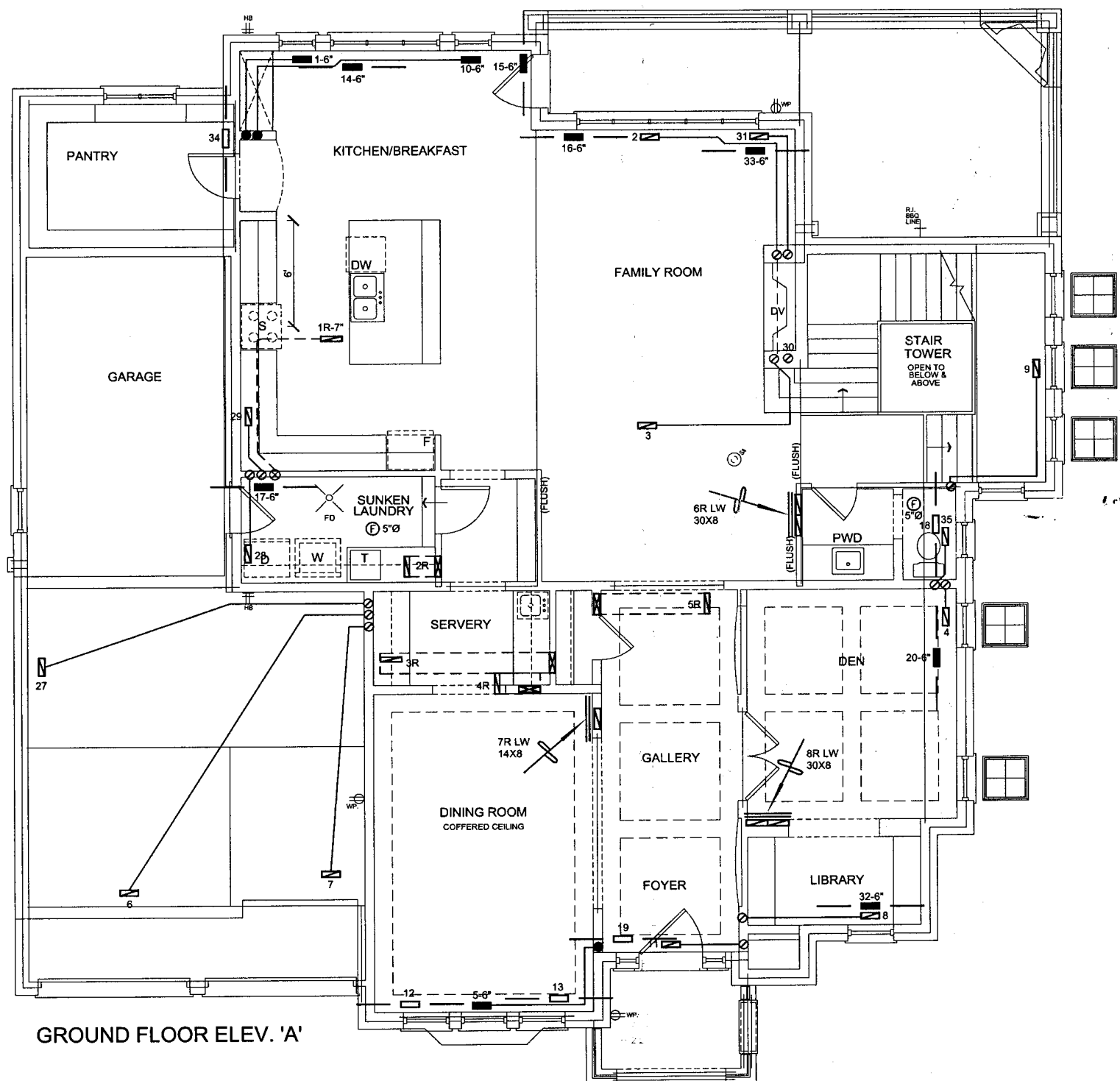
INDIVIDUAL BCIN: 19669

MICHAEL O'ROURKE

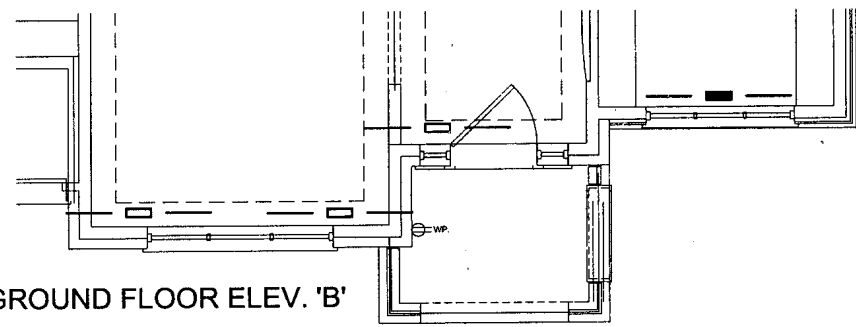


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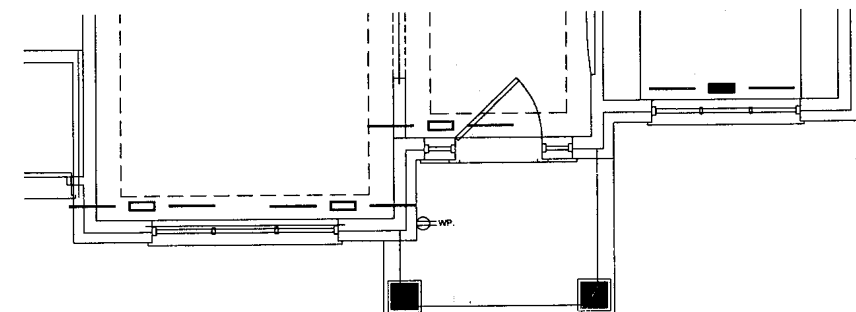
Client ZANCOR HOMES		 <p> 65 Church Street South - Ajax, Ontario L1S 6A7 Tel. 905.619.2300 - 905.420.5300 Fax 905.619.2375 Email: info@hvacdesigns.ca Web: www.hvacdesigns.ca Specializing in Residential Mechanical Design Services </p>	HEAT LOSS 74392 BTU/H UNIT DATA		# OF RUNS S/A R/A FANS			Sheet Title BASEMENT HEATING LAYOUT	
Project Name THE CASTLES OF KING CITY KING CITY, ONTARIO			MAKE LENNOX	3RD FLOOR					Date JAN/2014 Scale 1/8" = 1'-0" BCIN# 19669 LO# 53765
			MODEL ML195UH090XP48C-90	2ND FLOOR		17	5	5	
			INPUT 88 MBTU/H	1ST FLOOR		12	3	3	
			OUTPUT 85 MBTU/H	BASEMENT		6	1	0	
		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						
50-13 4288 sqft		FAN SPEED 1460 cfm @ 0.5" w.c.							
		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.							



GROUND FLOOR ELEV. 'A'



PARTIAL GROUND FLOOR ELEV. 'B'



PARTIAL GROUND FLOOR ELEV. 'C'

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.

OBC 2012-Rev. 2014



HVAC LEGEND						REVISIONS	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	No.	Description
— □ —	FLOOR SUPPLY AIR GRILLE	■	6" SUPPLY AIR BOOT ABOVE	— ▨ —	14"x8" RETURN AIR GRILLE	3.	
— ■ —	FLOOR SUPPLY AIR GRILLE 6" BOOT	○	SUPPLY AIR STACK FROM 2nd FLOOR	— ▨ —	30"x8" RETURN AIR GRILLE	2.	
— ▨ —	SUPPLY AIR BOOT ABOVE	●	6" SUPPLY AIR STACK 2nd FLOOR	— ▨ —	FRA- FLOOR RETURN AIR GRILLE	1.	
				— X —	REDUCER	No.	Description

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Client

ZANCOR HOMES

Project Name

THE CASTLES OF KING CITY
KING CITY, ONTARIO

HVAC DESIGNS LTD.

65 Church Street South - Ajax, Ontario
L1S 6A7 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

Date

JAN/2014

Scale

1/8" = 1'-0"

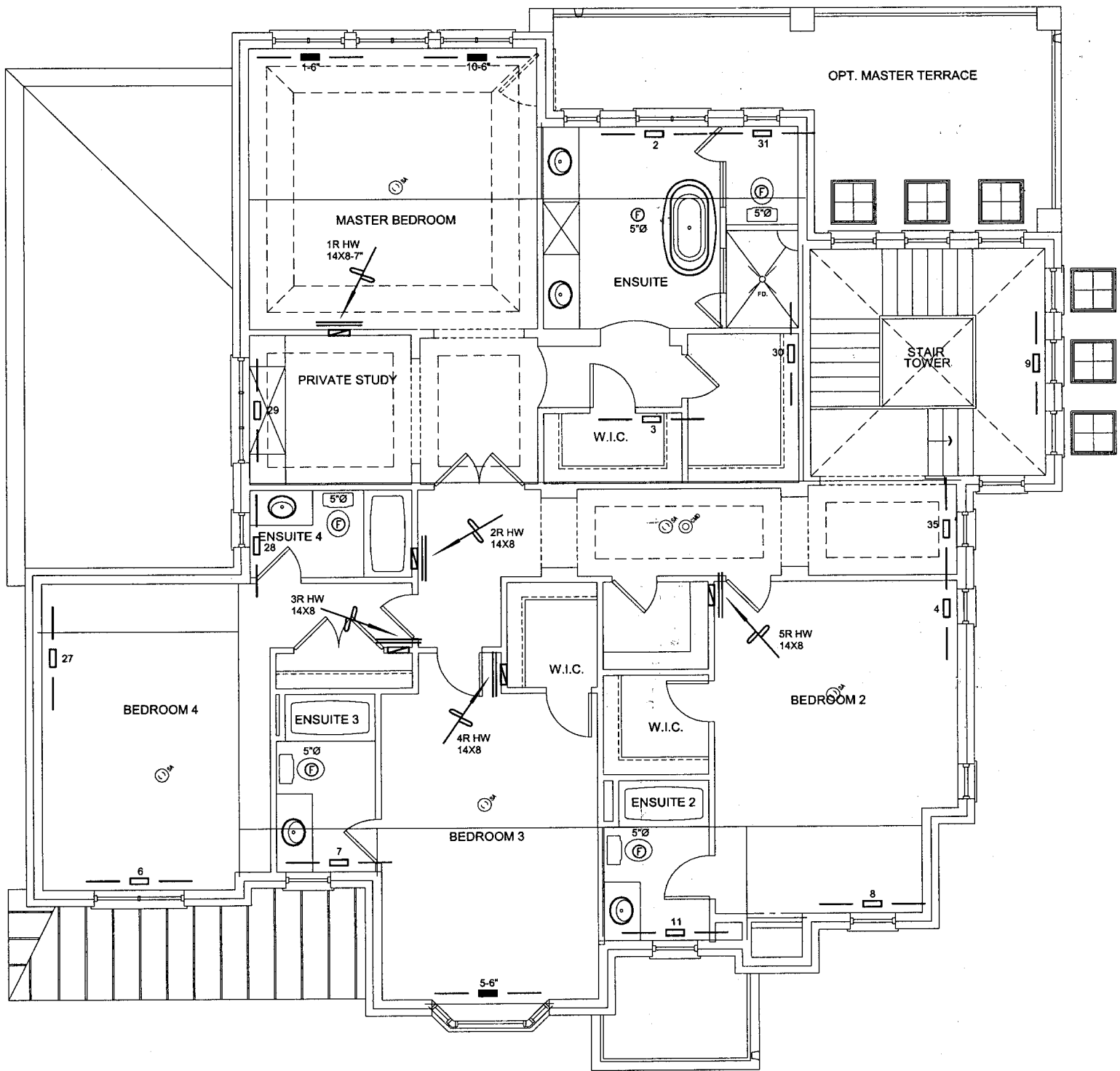
BCIN# 19669

LO#

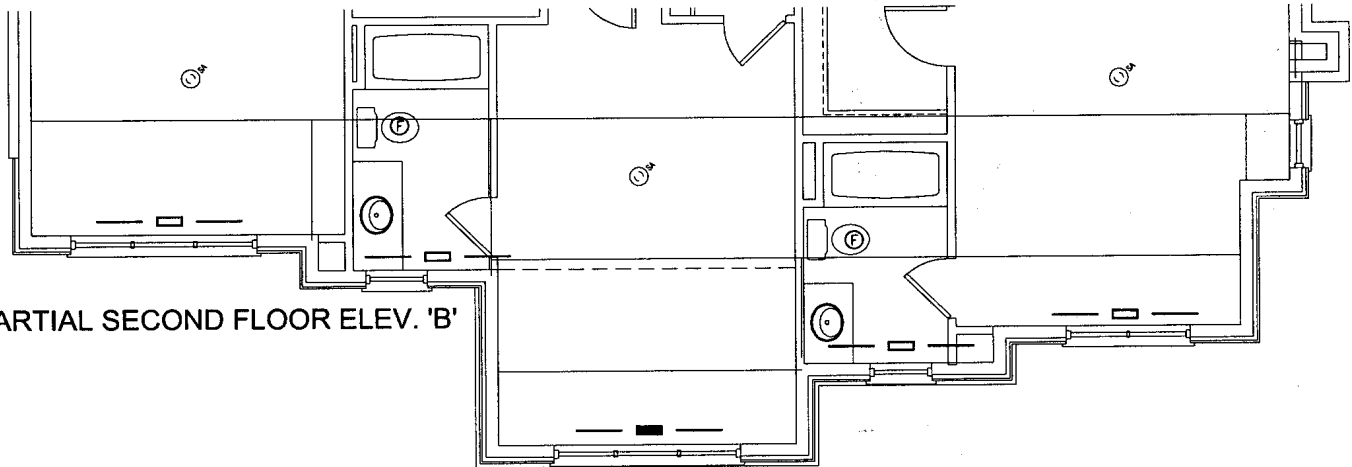
53765

50-13

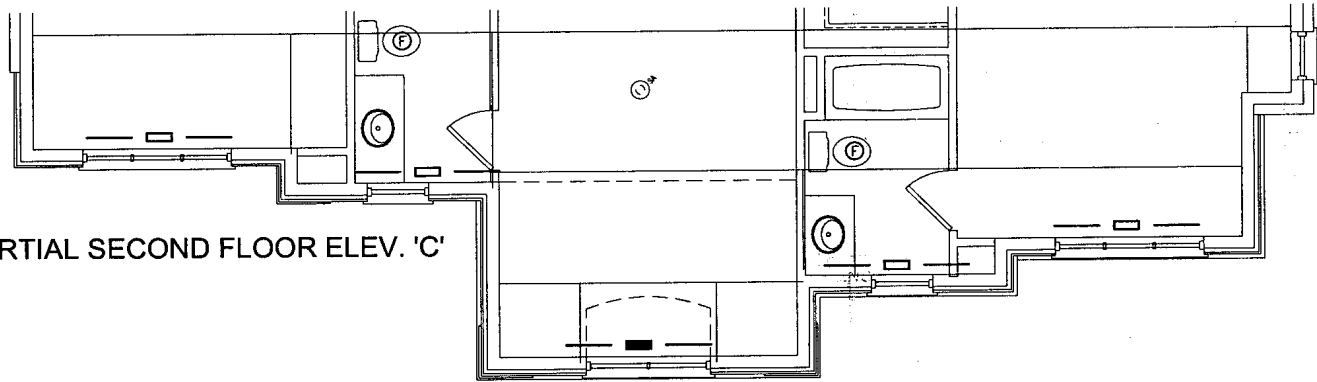
4288 sqft



SECOND FLOOR ELEV. 'A'



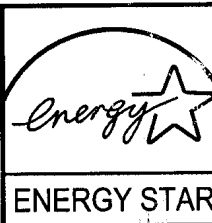
PARTIAL SECOND FLOOR ELEV. 'B'



PARTIAL SECOND FLOOR ELEV. 'C'

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.

OBC 2012-Rev. 2014



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

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Client ZANCOR HOMES		<div>HVACDESIGNS LTD.</div> <p>65 Church Street South - Ajax, Ontario L1S 6A7 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</p> <p>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.</p>	Sheet Title SECOND FLOOR HEATING LAYOUT	
Project Name THE CASTLES OF KING CITY KING CITY, ONTARIO			Date JAN/2014	
50-13			Scale 1/8" = 1'-0"	
4288 sqft			BCIN# 19669	
			LO#	53765