

SITE NAME: SECONDO	BUILDER: GREENPARK HOMES	TYPE: HOLLAND 15	GFA: 1952	DATE: Nov-17 LO# 76862	WINTER NATURAL AIR CHANGE RATE 0.272	HEAT LOSS AT °F. 81
ROOM USE	MBR	ENS	BED-2	BED-3	BATH	ENERGYSTAR
EXP. WALL CLG. HT.	13 9	21 9	24 9	30 9	11 9	
FACTORS						
GRS.WALL AREA LOSS GAIN	117	189	216	270	99	
GLAZING NORTH	20.4 14.9	0 0 0	0 0 0	LOSS GAIN	LOSS GAIN	
EAST	20.4 39.0	11 224 430	0 0 0	0 0 0	0 0 0	
SOUTH	20.4 23.3	0 0 0	18 366 420	12 244 280	12 244 280	
WEST	20.4 39.0	0 0 0	9 183 351	33 672 1289	0 0 0	
SKYLT.	34.2 100.7	0 0 0	0 0 0	0 0 0	0 0 0	
DOORS	27.0 4.3	0 0 0	0 0 0	0 0 0	0 0 0	
NET EXPOSED WALL	5.4 0.9	95 512 82	189 1018 163	225 1212 194	87 468 75	
NET EXPOSED BSMT WALL ABOVE GR	3.9 0.6	0 0 0	0 0 0	0 0 0	0 0 0	
EXPOSED CLG	1.6 0.7	312 501 215	155 249 107	224 359 155	192 308 132	
NO ATTIC EXPOSED CLG	4.0 1.7	0 0 0	0 0 0	0 0 0	0 0 0	
EXPOSED FLOOR	3.3 0.5	0 0 0	0 0 0	0 0 0	0 0 0	
BASEMENT/CRAWL HEAT LOSS		0 0 0	0 0 0	0 0 0	0 0 0	
SLAB ON GRADE HEAT LOSS		0 0 0	0 0 0	0 0 0	0 0 0	
SUBTOTAL HT LOSS	1460	1356	1816	2487	1021	
SUB TOTAL HT GAIN		657	1041	1917	487	
LEVEL FACTOR / MULTIPLIER	0.20 0.27	0.20 0.27	0.20 0.27	0.20 0.27	0.20 0.27	
AIR CHANGE HEAT LOSS	387	359	481	659	271	
AIR CHANGE HEAT GAIN		51	81	150	38	
DUCT LOSS	0	0	0	0	0	
DUCT GAIN		0	0	0	0	
HEAT GAIN PEOPLE	240	0	1	240 1	0	
HEAT GAIN APPLIANCES/LIGHTS		617	617	617	0	
TOTAL HT LOSS BTU/H	1847	1715	2297	3146	1291	
TOTAL HT GAIN x 1.3 BTU/H	3046	921	2573	3800	683	

ROOM USE EXP. WALL CLG. HT.	DINLIV	KIT/IFM	WIR	FOY	BAS	FOY	WIR	KIT/IFM	DINLIV	FACTORS		GRS.WALL AREA	LOSS GAIN
										LOSS GAIN	LOSS GAIN		
GRS.WALL AREA	300	490	90	120	700	120	90	490	300	20.4	14.9	34	692
	GLAZING									NORTH	14.9	34	692
	NORTH									EAST	39.0	0	0
	EAST									SOUTH	20.4	34	692
	SOUTH									WEST	20.4	39.0	0
	WEST									SKYLT.	34.2	100.7	0
	SKYLT.									DOORS	27.0	4.3	0
	DOORS									NET EXPOSED WALL	5.4	0.9	232
	NET EXPOSED WALL									NET EXPOSED BSMT WALL ABOVE GR	3.9	0.6	0
	NET EXPOSED BSMT WALL ABOVE GR									EXPOSED CLG	1.6	0.7	0
NO ATTIC EXPOSED CLG										EXPOSED CLG	1.6	0.7	0
										EXPOSED CLG	1.6	0.7	0
										EXPOSED CLG	1.6	0.7	0
BASEMENT/CRAWL HEAT LOSS										EXPOSED FLOOR	4.0	1.7	0
										EXPOSED FLOOR	4.0	1.7	0
										EXPOSED FLOOR	4.0	1.7	0
SLAB ON GRADE HEAT LOSS										EXPOSED FLOOR	3.3	0.5	0
										EXPOSED FLOOR	3.3	0.5	0
										EXPOSED FLOOR	3.3	0.5	0
SUBTOTAL HT LOSS										EXPOSED FLOOR	3.3	0.5	0
										EXPOSED FLOOR	3.3	0.5	0
										EXPOSED FLOOR	3.3	0.5	0
LEVEL FACTOR / MULTIPLIER										EXPOSED FLOOR	3.3	0.5	0
										EXPOSED FLOOR	3.3	0.5	0
										EXPOSED FLOOR	3.3	0.5	0
AIR CHANGE HEAT LOSS										EXPOSED FLOOR	3.3	0.5	0
										EXPOSED FLOOR	3.3	0.5	0
										EXPOSED FLOOR	3.3	0.5	0
DUCT LOSS										EXPOSED FLOOR	3.3	0.5	0
										EXPOSED FLOOR	3.3	0.5	0
										EXPOSED FLOOR	3.3	0.5	0
DUCT GAIN										EXPOSED FLOOR	3.3	0.5	0
										EXPOSED FLOOR	3.3	0.5	0
										EXPOSED FLOOR	3.3	0.5	0
HEAT GAIN PEOPLE										EXPOSED FLOOR	3.3	0.5	0
										EXPOSED FLOOR	3.3	0.5	0
										EXPOSED FLOOR	3.3	0.5	0
HEAT GAIN APPLIANCES/LIGHTS										EXPOSED FLOOR	3.3	0.5	0
										EXPOSED FLOOR	3.3	0.5	0
										EXPOSED FLOOR	3.3	0.5	0
TOTAL HT LOSS BTU/H										EXPOSED FLOOR	3.3	0.5	0
										EXPOSED FLOOR	3.3	0.5	0
										EXPOSED FLOOR	3.3	0.5	0

TOTAL HEAT GAIN BTU/H:

TONS: 2.05

LOSS DUE TO VENTILATION LOAD BTU/H: 3407

STRUCTURAL HEAT LOSS: 32856

TOTAL COMBINED HEAT LOSS BTU/H: 36263

SITE NAME: SECONDINO

BUILDER: GREENPARK HOMES

TYPE: HOLLAND 15

DATE: Nov-17

GFA: 1952 LO# 76862

HEATING CFM 890 COOLING CFM 890
TOTAL HEAT LOSS 32,856 TOTAL HEAT GAIN 24,113
AIR FLOW RATE CFM 27.09 AIR FLOW RATE CFM 36.91

furnace pressure 0.6
furnace filter 0.05
a/c coil pressure 0.2
available pressure
for s/a & r/a 0.35

#GOODMAN -
GMEC960402BNA 40
FAN SPEED
LOW
MEDIUM
HIGH

AFUE = 96 %
INPUT (BTU/H) = 40,000
OUTPUT (BTU/H) = 38,400
DESIGN CFM = 890
CFM @ .6" E.S.P.

RUN COUNT	4th	3rd	2nd	1st	Bas
S/A	0	0	8	7	4
R/A	0	0	3	2	1

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	10	12	13	14	15	16	18	19	21	22	23	24
ROOM NAME	MBR	ENS	BED-2	BED-3	BED-3	BED-3	BATH	BED-2	MBR	DIN/LIV	DIN/LIV	KIT/FM	KIT/FM	KIT/FM	W/R	FOY	BAS	BAS	BAS	BAS
RM LOSS MBH	0.92	1.71	1.15	1.57	1.57	1.57	1.29	1.15	0.92	1.78	1.78	1.78	2.12	2.12	0.92	1.63	2.52	2.52	2.52	2.52
CFM PER RUN HEAT	25	46	31	43	43	43	35	31	25	48	48	57	57	57	25	44	68	68	68	68
RM GAIN MBH	1.52	0.92	1.29	1.90	1.90	1.90	0.68	1.29	1.52	1.45	1.45	2.56	2.56	2.56	0.80	0.27	0.36	0.36	0.36	0.36
CFM PER RUN COOLING	56	34	47	70	70	70	25	47	56	54	54	94	94	94	30	10	13	13	13	13
ADJUSTED PRESSURE	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.17
ACTUAL DUCT LGH.	52	38	32	55	47	47	55	27	45	38	23	10	25	28	15	36	27	22	24	34
EQUIVALENT LENGTH	140	200	180	190	140	140	200	200	150	150	140	100	110	120	170	110	120	130	130	120
TOTAL EFFECTIVE LENGTH	192	238	212	245	187	255	227	227	195	188	163	110	135	148	185	146	137	152	154	154
ADJUSTED PRESSURE	0.09	0.07	0.08	0.07	0.09	0.09	0.07	0.08	0.09	0.09	0.11	0.15	0.12	0.11	0.09	0.12	0.13	0.11	0.11	0.11
ROUND DUCT SIZE	5	5	4	5	5	5	4	4	5	5	4	5	5	5	4	4	5	5	5	5
HEATING VELOCITY (ft/min)	184	338	356	316	316	316	402	356	184	352	551	419	419	419	287	505	499	499	499	499
COOLING VELOCITY (ft/min)	411	250	539	514	514	514	287	539	411	396	620	690	690	690	344	115	95	95	95	95
OUTLET GRILL SIZE	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10
TRUNK	A	B	B	D	D	D	D	B	A	D	D	B	B	A	D	D	A	B	D	D

RUN

ROOM NAME

RM LOSS MBH

CFM PER RUN HEAT

RM GAIN MBH

CFM PER RUN COOLING

ADJUSTED PRESSURE

ACTUAL DUCT LGH.

EQUIVALENT LENGTH

TOTAL EFFECTIVE LENGTH

ADJUSTED PRESSURE

ROUND DUCT SIZE

HEATING VELOCITY (ft/min)

COOLING VELOCITY (ft/min)

OUTLET GRILL SIZE

TRUNK

SUPPLY AIR TRUNK SIZE

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	175	0.09	7.1	6	525	TRUNK G	0	0.00	0	0	TRUNK O	0	0.05	0	8
TRUNK B	290	0.07	9.1	10	522	TRUNK H	0	0.00	0	0	TRUNK P	0	0.05	0	8
TRUNK C	465	0.07	10.9	14	598	TRUNK I	0	0.00	0	0	TRUNK Q	0	0.05	0	8
TRUNK D	422	0.07	10.5	14	543	TRUNK J	0	0.00	0	0	TRUNK R	0	0.05	0	8
TRUNK E	0	0.00	0	0	0	TRUNK K	0	0.00	0	0	TRUNK S	0	0.05	0	8
TRUNK F	0	0.00	0	0	0	TRUNK L	0	0.00	0	0	TRUNK T	0	0.05	0	8
RETURN AIR #	1	2	3	4	5	0	0	0	0	0	TRUNK U	0	0.05	0	8
AIR VOLUME	95	175	75	135	300	0	0	0	0	0	TRUNK V	0	0.05	0	8
PLENUM PRESSURE	0.15	0.15	0.15	0.15	0.15	0	0	0	0	0	TRUNK W	0	0.05	0	8
ACTUAL DUCT LGH.	30	32	62	15	31	1	1	1	1	1	TRUNK X	890	0.05	15.1	8
EQUIVALENT LENGTH	140	185	230	135	225	0	0	0	0	0	TRUNK Y	550	0.05	12.6	8
TOTAL EFFECTIVE LH	170	217	292	150	256	1	1	1	1	1	TRUNK Z	0	0.05	0	8
ADJUSTED PRESSURE	0.09	0.07	0.05	0.10	0.06	14.80	14.80	14.80	14.80	14.80	DROP	890	0.05	15.1	10
ROUND DUCT SIZE	5.6	7.5	6	6.3	9.6	0	0	0	0	0					
INLET GRILL SIZE	8	8	8	8	8	0	0	0	0	0					
INLET GRILL SIZE	14	14	14	14	30	0	0	0	0	0					

TYPE: HOLLAND 15
SITE NAME: SECONDO

LO # 76862

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
TOTAL		63.6 cfm

SUPPLEMENTAL VENTILATION CAPACITY		9.32.3.5.
Total Ventilation Capacity	137.8	cfm
Less Principal Ventil. Capacity	155	cfm
Required Supplemental Capacity	-17.2	cfm

PRINCIPAL EXHAUST FAN CAPACITY	
Model: VANEE 65H	Location: BSMT
155.0 cfm	3.0 sones
☒ HVI Approved	

PRINCIPAL EXHAUST HEAT LOSS CALCULATION			
CFM	ΔT °F	FACTOR	% LOSS
155.0 CFM	81 F	1.08	0.25

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

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

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:	
HRAI #	001820
Date:	November-17

HEAT LOSS AND GAIN SUMMARY SHEET**MODEL:** HOLLAND 15**BUILDER:** GREENPARK HOMES**SFQT:** 1952**LO#** 76862**SITE:** SECONDO**DESIGN ASSUMPTIONS**

HEATING	°F	COOLING	°F
OUTDOOR DESIGN TEMP.	-9	OUTDOOR DESIGN TEMP.	86
INDOOR DESIGN TEMP.	72	INDOOR DESIGN TEMP. (MAX 75°F)	73

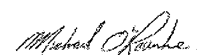
BUILDING DATA

ATTACHMENT:	ATTACHED	# OF STORIES (+BASEMENT):	3
FRONT FACES:	EAST	ASSUMED (Y/N):	Y
AIR CHANGES PER HOUR:	3.00	ASSUMED (Y/N):	Y
AIR TIGHTNESS CATEGORY:	TIGHT	ASSUMED (Y/N):	Y
WIND EXPOSURE:	UNSHELTERED	ASSUMED (Y/N):	Y
HOUSE VOLUME (ft ³):	27188.0	ASSUMED (Y/N):	Y
INTERNAL SHADING:	BLINDS/CURTAINS	ASSUMED OCCUPANTS:	4
INTERIOR LIGHTING LOAD (Btu/h/ft ²):	1.27	DC BRUSHLESS MOTOR (Y/N):	Y
FOUNDATION CONFIGURATION	BCIN_1	DEPTH BELOW GRADE:	7.0 ft
LENGTH: 50.0 ft	WIDTH: 25.0 ft	EXPOSED PERIMETER:	100.0 ft

2012 OBC - COMPLIANCE PACKAGE		Compliance Package ENERGYSTAR	
Component		Nominal	Min. Eff.
Ceiling with Attic Space Minimum RSI (R)-Value		50	50.72
Ceiling Without Attic Space Minimum RSI (R)-Value		31	20.54
Exposed Floor Minimum RSI (R)-Value		31	24.58
Walls Above Grade Minimum RSI (R)-Value		20 + 5	15.12
Basement Walls Minimum RSI (R)-Value		20	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		ZONE 2	-
Skylights Maximum U-Value		ZONE 2	-
Space Heating Equipment Minimum AFUE		0.95	-
HRV Minimum Efficiency		65%	-
Domestic Hot Water Heater Minimum EF		0.75	-

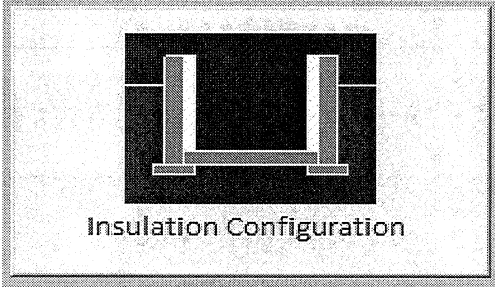
INDIVIDUAL BCIN: 19669

MICHAEL O'ROURKE



Residential Foundation Thermal Load Calculator

Supplemental tool for CAN/CSA-F280

Weather Station Description		
Province:	Ontario	
Region:	Bradford	
Site Description		
Soil Conductivity:	Normal conductivity: dry sand, loam, clay	
Water Table:	Normal (7-10 m, 23-33 ft)	
Foundation Dimensions		
Floor Length (m):	15.2	
Floor Width (m):	7.6	
Exposed Perimeter (m):	30.5	
Wall Height (m):	2.7	
Depth Below Grade (m):	2.13	
Window Area (m ²):	1.5	
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):		899

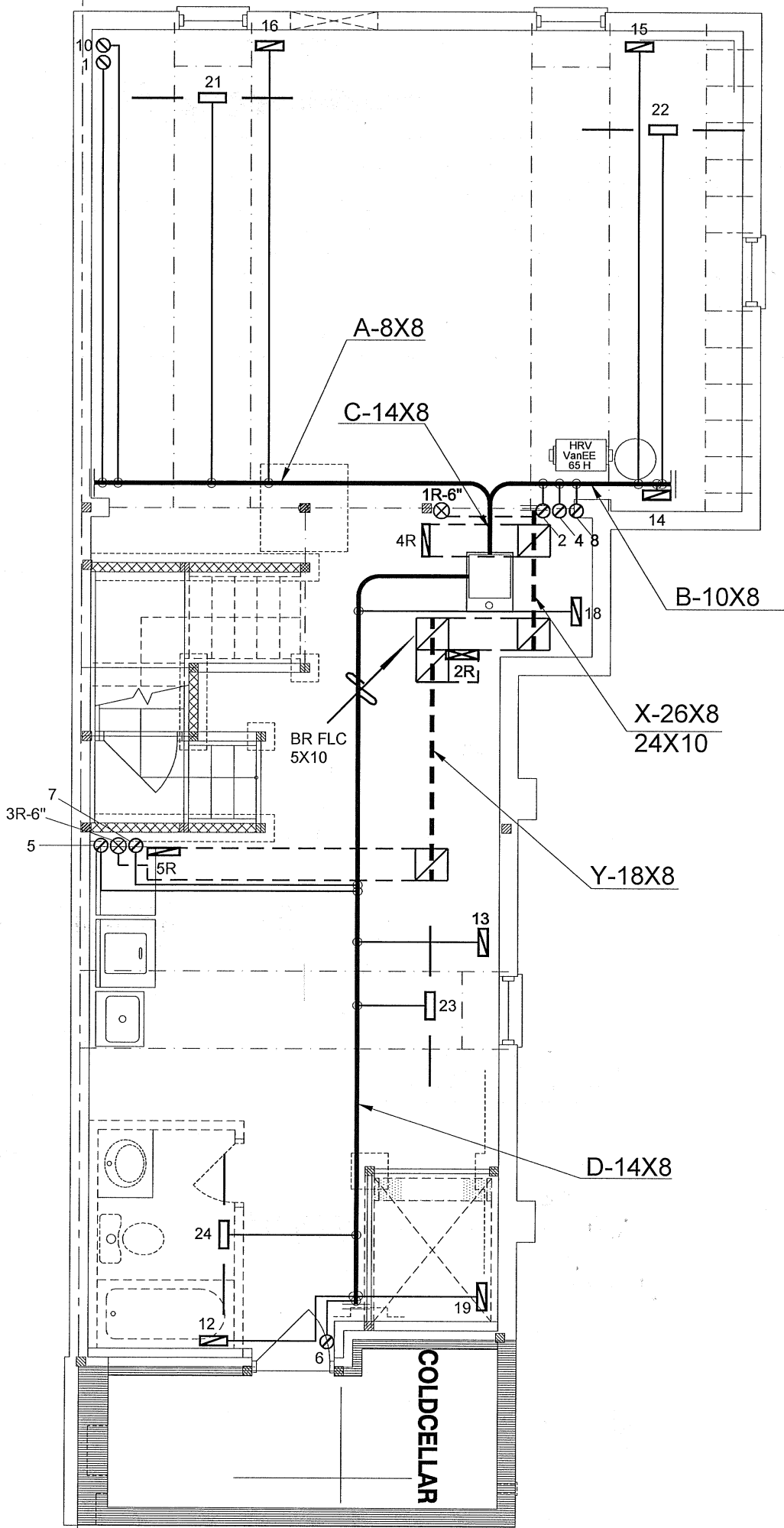
TYPE: HOLLAND 15
LO# 76862

Air Infiltration Residential Load Calculator

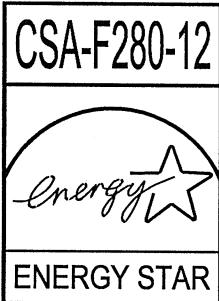
Supplemental tool for CAN/CSA-F280

Weather Station Description				
Province:	Ontario			
Region:	Bradford			
Weather Station Location:	Open flat terrain, grass			
Anemometer height (m):	10			
Local Shielding				
Building Site:	Suburban, forest			
Walls:	Very heavy			
Flue:	Heavy			
Highest Ceiling Height (m):	6.40			
Building Configuration				
Type:	Semi			
Number of Stories:	Two			
Foundation:	Full			
House Volume (m ³):	769.9			
Air Leakage/Ventilation				
Air Tightness Type:	Energy Star Attached (3.0 ACH)			
Custom BDT Data:	ELA @ 10 Pa.	862.4 cm ²		
	3.00	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):	0.272			
Cooling Air Leakage Rate (ACH/H):	0.073			

TYPE: HOLLAND 15
LO# 76862



HOLLAND 15
ELEV-1
TH 52-5

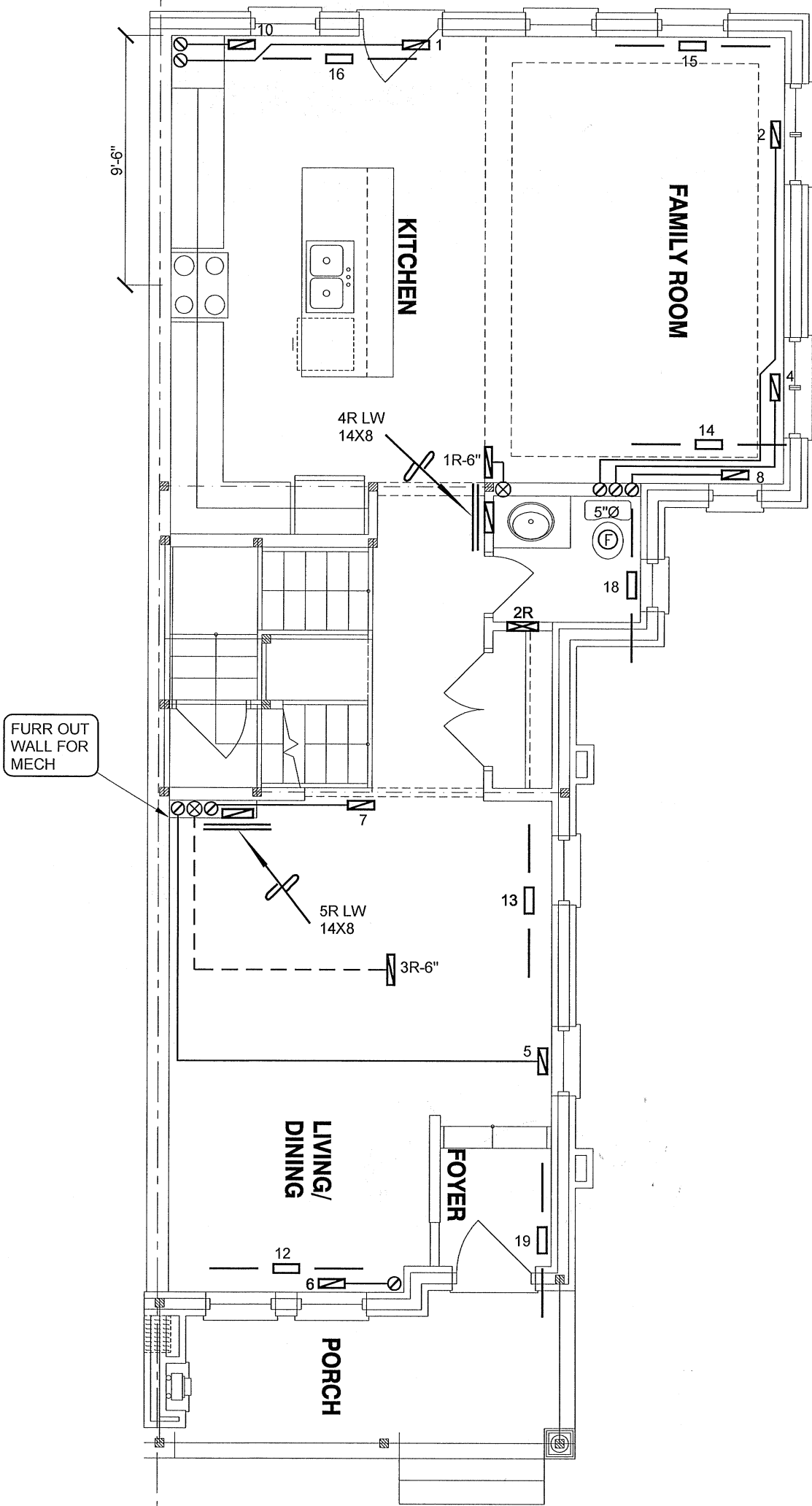


I MICHAEL O'ROURKE HAVE REVIEWED AND TAKE RESPONSIBILITY FOR THE DESIGN WORK AND AM QUALIFIED UNDER DIVISION C.3.2.3 OF THE BUILDING CODE.
Michael O'Rourke
Michael O'Rourke, BCIN# 19669
HVAC DESIGNS LTD.

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 36263 BTU/H		# OF RUNS S/A R/A FANS				Sheet Title	
GREENPARK HOMES				UNIT DATA		3RD FLOOR				BASEMENT HEATING LAYOUT	
Project Name		SECOND GWILLIMBURY, ONTARIO		MAKE GOODMAN		2ND FLOOR 8 3 2				Date NOV/2017	
MODEL GMEC960402BNA				1ST FLOOR 7 2 2				Scale 3/16" = 1'-0"			
INPUT 40 MBTU/H				BASEMENT 4 1 0				BCIN# 19669			
OUTPUT 38.4 MBTU/H				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				LO# 76862			
COOLING 2.0 TONS											
HOLLAND 15		1952 sqft		FAN SPEED 890 cfm @ 0.6" 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.									



HOLLAND 15
ELEV-1
TH 52-5

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



ENERGY STAR

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. 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	
GREENPARK HOMES			FIRST FLOOR HEATING LAYOUT	
Project Name			Date	NOV/2017
SECONDO GWILLIMBURY, ONTARIO			Scale	3/16" = 1'-0"
HOLLAND 15 1952 sqft			BCIN# 19669	
		LO#	76862	

