

SITE NAME: LAMBERT'S LANE PH.2

BUILDER: GREENPARK HOMES

LOT 73

TYPE: KINMOUNT GA

GFA: 3062

DATE: Aug-19

LO# 83548

WINTER NATURAL AIR CHANGE RATE 0.274

SUMMER NATURAL AIR CHANGE RATE 0.089

HEAT LOSS AT °F. 74

HEAT GAIN AT °F. 11

CSA-F280-12

ENERGYSTAR

ROOM USE	EXP. WALL	CLG. HT.	FACTORS	MDR	ENS	WIC	BED-2	BED-3	BED-4	BATH	ENS-4
GRS.WALL AREA	18.6	13.9	0	0	0	0	0	0	0	0	0
GLAZING	18.6	13.9	0	0	0	0	0	0	0	0	0
NORTH	18.6	13.9	0	0	0	0	0	0	0	0	0
EAST	18.6	13.9	0	0	0	0	0	0	0	0	0
SOUTH	18.6	13.9	0	0	0	0	0	0	0	0	0
WEST	18.6	13.9	0	0	0	0	0	0	0	0	0
SKYL.T.	31.2	99.9	0	0	0	0	0	0	0	0	0
DOORS	24.7	3.7	0	0	0	0	0	0	0	0	0
NET EXPOSED WALL	3.5	0.5	265	932	138	292	1027	152	117	411	61
NET EXPOSED BSMT WALL ABOVE GR	3.5	0.5	0	0	0	0	0	0	0	0	0
EXPOSED CLG	1.3	0.6	270	338	151	255	320	142	195	244	109
NO ATTIC EXPOSED CLG	2.7	1.2	0	0	0	0	0	0	0	0	0
EXPOSED FLOOR	2.5	0.4	0	0	0	0	0	0	0	0	0
BASEMENT/CRAWL HEAT LOSS											
SLAB ON GRADE HEAT LOSS											
SUBTOTAL HT LOSS											
SUB TOTAL HT GAIN											
LEVEL FACTOR / MULTIPLIER	0.20	0.26									
AIR CHANGE HEAT LOSS	478										
AIR CHANGE HEAT GAIN		92									
DUCT LOSS											
DUCT GAIN											
HEAT GAIN PEOPLE	240										
HEAT GAIN APPLIANCES/LIGHTS											
TOTAL HT LOSS BTU/H											
TOTAL HT GAIN x 1.3 BTU/H											

ROOM USE	EXP. WALL	CLG. HT.	FACTORS	LIV	KIT	FAM	LAUN	W/R	FOY	OFF	WOB	BAS
GRS.WALL AREA	18.6	13.9	0	0	0	0	0	0	0	0	0	0
GLAZING	18.6	13.9	0	0	0	0	0	0	0	0	0	0
NORTH	18.6	13.9	0	0	0	0	0	0	0	0	0	0
EAST	18.6	13.9	0	0	0	0	0	0	0	0	0	0
SOUTH	18.6	13.9	0	0	0	0	0	0	0	0	0	0
WEST	18.6	13.9	0	0	0	0	0	0	0	0	0	0
SKYL.T.	31.2	99.9	0	0	0	0	0	0	0	0	0	0
DOORS	24.7	3.7	0	0	0	0	0	0	0	0	0	0
NET EXPOSED WALL	3.5	0.5	330	1161	172							
NET EXPOSED BSMT WALL ABOVE GR	3.5	0.5	0	0	0							
EXPOSED CLG	1.3	0.6	0	0	0							
NO ATTIC EXPOSED CLG	2.7	1.2	0	0	0							
EXPOSED FLOOR	2.5	0.4	0	0	0							
BASEMENT/CRAWL HEAT LOSS												
SLAB ON GRADE HEAT LOSS												
SUBTOTAL HT LOSS												
SUB TOTAL HT GAIN												
LEVEL FACTOR / MULTIPLIER	0.30	0.40										
AIR CHANGE HEAT LOSS	689											
AIR CHANGE HEAT GAIN		52										
DUCT LOSS												
DUCT GAIN												
HEAT GAIN PEOPLE	240											
HEAT GAIN APPLIANCES/LIGHTS												
TOTAL HT LOSS BTU/H												
TOTAL HT GAIN x 1.3 BTU/H												

TOTAL HEAT GAIN BTU/H:

31077

TONS: 2.59

LOSS DUE TO VENTILATION LOAD BTU/H: 1593

STRUCTURAL HEAT LOSS: 47626

TOTAL COMBINED HEAT LOSS BTU/H: 45218

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.

Michael O'Rourke

INDIVIDUAL BCIN: 19669

MICHAEL O'ROURKE

SITE NAME: LAMBERT'S LANE PH.2
 BUILDER: GREENPARK HOMES

 LOT 73
 TYPE: KINMOUNT 6A

DATE: Aug-19

GFA: 3062 LO# 83548

 HEATING CFM 1131 COOLING CFM 1131
 TOTAL HEAT LOSS 47,626 TOTAL HEAT GAIN 30,841
 AIR FLOW RATE CFM 23.75 AIR FLOW RATE CFM 36.67

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

 #GOODMAN
 GMEC960603BNA 60
 FAN SPEED LOW
 MEDLOW
 MEDIUM
 MEDIUM HIGH
 HIGH 1131

 AFUE = 96 %
 INPUT (BTU/H) = 60,000
 OUTPUT (BTU/H) = 57,600

 DESIGN CFM = 1131
 CFM @ 6" E.S.P.

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

 All S/A diffusers 4"x10" unless noted otherwise on layout.
 All S/A runs 5/2 unless noted otherwise on layout.

 plenum pressure s/a 0.18
 max s/a dif press. loss 0.02
 min adjusted pressure s/a 0.16
 r/a pressure 0.17
 r/a grille press. Loss 0.02
 adjusted pressure r/a 0.15

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	BATH	BED-4	BED-3	MBR	ENS-4	LIV	FAM	KIT	KIT	FAM	LAUN	W/R	FOY	OFF	BAS	BAS	BAS	BAS
RM LOSS MBH	1.17	1.99	0.82	1.30	1.46	1.77	1.02	1.77	1.46	1.17	0.94	2.41	1.52	1.82	1.82	1.52	2.59	0.52	2.38	1.61	3.97	3.97	3.97	3.97
CFM PER RUN HEAT	28	47	20	31	35	42	24	42	35	28	22	57	36	43	43	36	61	12	57	38	94	94	94	94
RM GAIN MBH	1.69	1.62	0.23	1.81	1.31	1.91	0.44	1.91	1.31	1.69	0.33	1.88	1.70	1.46	1.46	1.70	1.22	0.26	0.35	2.29	0.93	0.93	0.93	0.93
CFM PER RUN COOLING	62	60	9	66	48	70	16	70	48	62	12	69	62	53	53	62	45	10	13	84	34	34	34	34
ADJUSTED PRESSURE	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.16
ACTUAL DUCT LGH	57	49	37	21	45	47	37	37	47	44	33	14	38	35	31	46	46	8	37	28	63	32	11	28
EQUIVALENT LENGTH	190	130	180	140	130	200	140	170	90	150	170	140	160	140	120	130	140	120	170	140	160	180	130	190
TOTAL EFFECTIVE LENGTH	247	179	217	161	175	247	177	207	137	194	203	154	198	175	151	176	186	128	207	168	223	212	141	218
ADJUSTED PRESSURE	0.07	0.1	0.08	0.11	0.1	0.07	0.1	0.08	0.13	0.09	0.08	0.11	0.09	0.1	0.11	0.1	0.09	0.13	0.08	0.1	0.07	0.08	0.11	0.07
ROUND DUCT SIZE	6	5	4	6	5	6	4	6	5	6	4	5	5	5	5	5	5	4	5	6	6	6	6	6
HEATING VELOCITY (ft/min)	143	345	229	158	257	214	275	214	257	143	252	419	264	316	316	264	448	138	419	194	479	479	479	479
COOLING VELOCITY (ft/min)	316	441	103	337	352	357	184	357	352	316	138	507	455	389	389	455	330	115	95	428	173	173	173	173
OUTLET GRILL SIZE	4X10	3X10	3X10	4X10	3X10	4X10	3X10	4X10	3X10	4X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	4X10	4X10	4X10	4X10	4X10
TRUNK	B	B	E	C	D	E	E	E	D	B	E	E	A	B	B	A	A	C	D	D	A	B	C	D

RUN #	25
ROOM NAME	ENS
RM LOSS MBH	0.66
CFM PER RUN HEAT	16
RM GAIN MBH	0.54
CFM PER RUN COOLING	20
ADJUSTED PRESSURE	0.17
ACTUAL DUCT LGH	19
EQUIVALENT LENGTH	130
TOTAL EFFECTIVE LENGTH	149
ADJUSTED PRESSURE	0.12
ROUND DUCT SIZE	4
HEATING VELOCITY (ft/min)	184
COOLING VELOCITY (ft/min)	229
OUTLET GRILL SIZE	3X10
TRUNK	C

SUPPLY AIR TRUNK SIZE										RETURN 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	227	0.07	8.3	8	X	8	511	TRUNK G	0	0.00	0	0	X	8	0	0	0	0	0
TRUNK B	283	0.07	9	10	X	8	509	TRUNK H	0	0.00	0	0	X	8	0	0	0	0	0
TRUNK C	663	0.07	12.4	18	X	8	663	TRUNK I	0	0.00	0	0	X	8	0	0	0	0	0
TRUNK D	259	0.07	8.7	10	X	8	466	TRUNK J	0	0.00	0	0	X	8	0	0	0	0	0
TRUNK E	466	0.07	10.9	14	X	8	599	TRUNK K	0	0.00	0	0	X	8	0	0	0	0	0
TRUNK F	0	0.00	0	0	X	8	0	TRUNK L	0	0.00	0	0	X	8	0	0	0	0	0

RETURN AIR #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
AIR VOLUME	155	170	95	85	290	165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PLENUM PRESSURE	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
ACTUAL DUCT LGH	58	43	56	58	20	32	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
EQUIVALENT LENGTH	180	175	165	190	135	170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL EFFECTIVE LH	238	218	221	246	155	202	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ADJUSTED PRESSURE	0.06	0.07	0.07	0.06	0.10	0.07	14.80	14.80	14.80	14.80	14.80	14.80	14.80	14.80	14.80	14.80	14.80	14.80	14.80	14.80	14.80	14.80	14.80	14.80
ROUND DUCT SIZE	7.5	7.5	6	6	8.3	7.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INLET GRILL SIZE	8	8	8	8	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INLET GRILL SIZE	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
INLET GRILL SIZE	14	14	14	14	24	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CSA F280-12 Residential Heat Loss and Heat Gain Calculations
Formula Sheet (For Air Leakage / Ventilation Calculation)

LOW: 83548

Model: KINMOUNT 6A

Builder: GREENPARK HOMES

Date: 29/08/2019

Volume Calculation
Air Change & Delta T Data

House Volume			
Level	Floor Area (ft²)	Floor Height (ft)	Volume (ft³)
Bsmt	1371	9	12339
First	1371	11	14967.207
Second	1691	9	15219
Third	0	9	0
Fourth	0	9	0
Total:			42,525.2 ft³
Total:			1204.2 m³

WINTER NATURAL AIR CHANGE RATE	0.274
SUMMER NATURAL AIR CHANGE RATE	0.089

Design Temperature Difference				
	Tin °C	Tout °C	ΔT °C	ΔT °F
Winter DTDh	22	-19	41	74
Summer DTDc	24	30	6	11

5.2.3.1 Heat Loss due to Air Leakage
6.2.6 Sensible Gain due to Air Leakage

$$HL_{airb} = LR_{airh} \times \frac{V_b}{3.6} \times DTD_h \times 1.2$$

0.274 x 334.49 x 41 °C x 1.2 = 4528 W

= 15448 Btu/h

$$HG_{salb} = LR_{airc} \times \frac{V_b}{3.6} \times DTD_c \times 1.2$$

= 0.089 x 334.49 x 6 °C x 1.2 = 218 W

= 743 Btu/h

5.2.3.2 Heat Loss due to Mechanical Ventilation
6.2.7 Sensible heat Gain due to Ventilation

$$HL_{vairb} = PVC \times DTD_h \times 1.08 \times (1 - E)$$

80 CFM x 74 °F x 1.08 x 0.25 = 1593 Btu/h

$$HL_{vairb} = PVC \times DTD_h \times 1.08 \times (1 - E)$$

80 CFM x 11 °F x 1.08 x 0.25 = 236 Btu/h

5.2.3.3 Calculation of Air Change Heat Loss for Each Room (Floor Multiplier Section)

$$HL_{airr} = \text{Level Factor} \times HL_{airbv} \times \{(HL_{agcr} + HL_{bgcr}) \div (HL_{agcleve} + HL_{bgcleve})\}$$

Level	Level Factor (LF)	HLairve Air Leakage + Ventilation Heat Loss (Btu/h)	Level Conductive Heat Loss: (HL _{level})	Air Leakage Heat Loss Multiplier (LF x HLairbv / HLlevel)
1	0.5	15,448	8,174	0.945
2	0.3		11,554	0.401
3	0.2		12,042	0.257
4	0		0	0.000
5	0		0	0.000

*HLairbv = Air leakage heat loss + ventilation heat loss

*For a balanced or supply only ventilation system HLairve = 0

HEAT LOSS AND GAIN SUMMARY SHEET

MODEL: KINMOUNT 6A	LOT 73	BUILDER: GREENPARK HOMES
SFQT: 3062	LO# 83548	SITE: LAMBERT'S LANE PH.2

DESIGN ASSUMPTIONS

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

BUILDING DATA

ATTACHMENT:	DETACHED	# OF STORIES (+BASEMENT):	3
FRONT FACES:	EAST	ASSUMED (Y/N):	Y
AIR CHANGES PER HOUR:	2.50	ASSUMED (Y/N):	Y
AIR TIGHTNESS CATEGORY:	TIGHT	ASSUMED (Y/N):	Y
WIND EXPOSURE:	SHELTERED	ASSUMED (Y/N):	Y
HOUSE VOLUME (ft³):	42525.2	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:	6.0 ft
LENGTH: 57.0 ft WIDTH: 34.0 ft		EXPOSED PERIMETER:	130.0 ft
WOB INSULATION CONFIGURATION	SCB_9	WOB EXPOSED PERIMETER	52.0 ft

2012 OBC - COMPLIANCE PACKAGE

Component	Compliance Package ENERGYSTAR	
	Nominal	Min. Eff.
Ceiling with Attic Space Minimum RSI (R)-Value	60	59.20
Ceiling Without Attic Space Minimum RSI (R)-Value	31	27.70
Exposed Floor Minimum RSI (R)-Value	31	29.80
Walls Above Grade Minimum RSI (R)-Value	R22+R5	21.10
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	0.96	-
HRV Minimum Efficiency	75%	-
Domestic Hot Water Heater Minimum EF	0.9	-

INDIVIDUAL BCIN: 19669

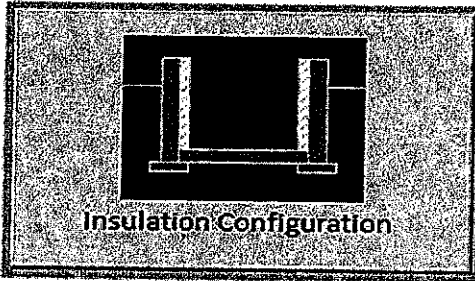
MICHAEL O'ROURKE

Michael O'Rourke

THIS STRUCTURE MUST BE
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THE ONTARIO BUILDING CODE

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):	6.1	 Insulation Configuration
Floor Width (m):	10.4	
Exposed Perimeter (m):	39.6	
Wall Height (m):	2.7	
Depth Below Grade (m):	1.57	
Window Area (m ²):	0.7	
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):	780	

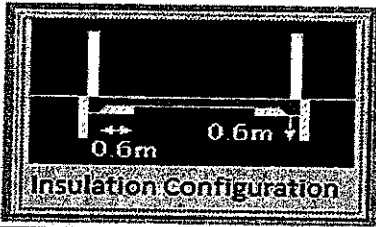
TYPE: KINMOUNT 6A
LO# 83548

LOT 73

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Residential Slab on Grade 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		
Length (m):	3.0	
Width (m):	9.8	
Exposed Perimeter (m):	15.8	
Radiant Slab		
Heated Fraction of the Slab:	0	
Fluid Temperature (°C):	33	
Design Months		
Heating Month	1	
Results		
Heating Load (Watts):		219

TYPE: KINMOUNT 6A
LO# 83548

LOT 73

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Air Infiltration Residential Load Calculator

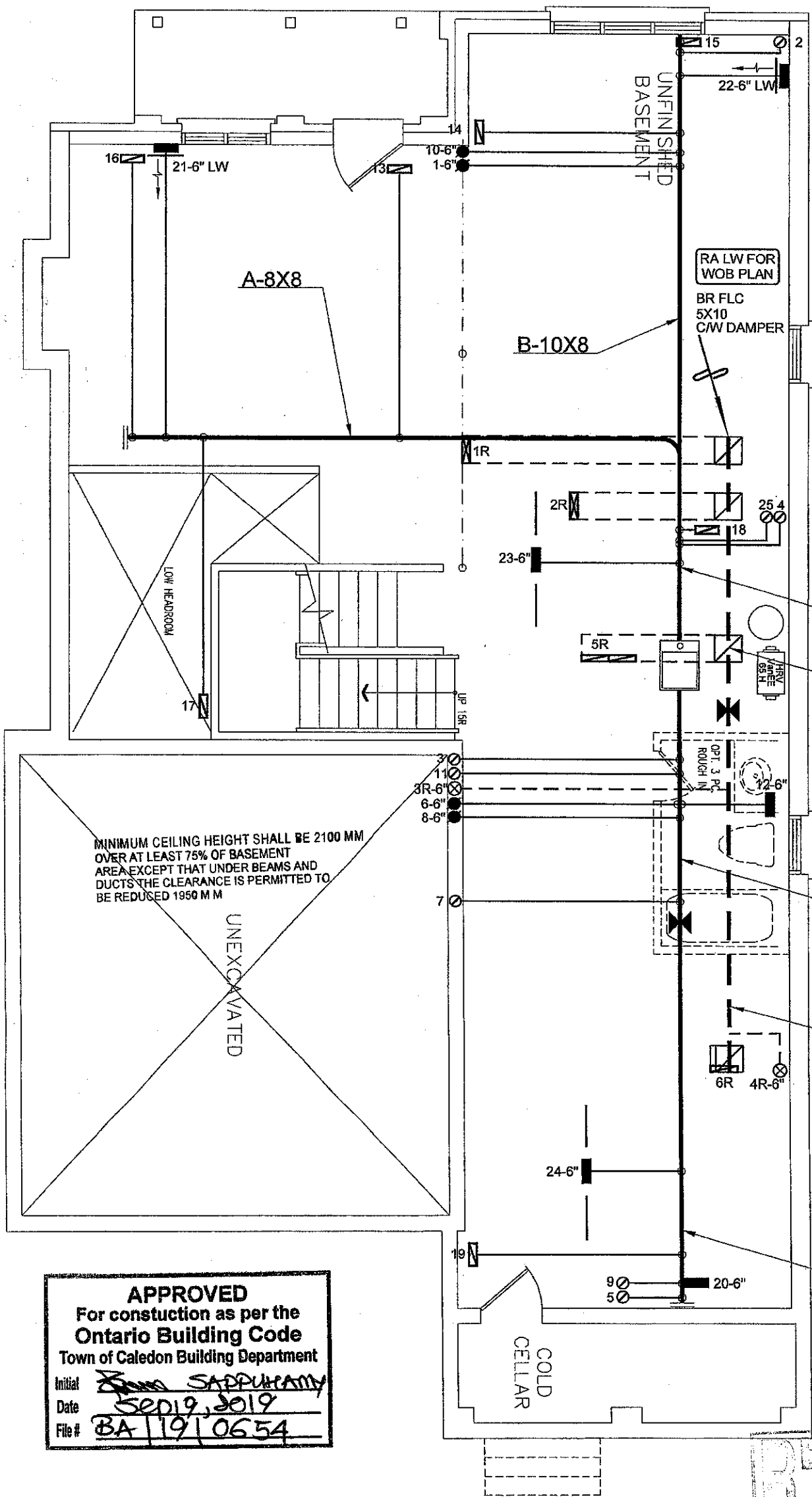
Supplemental tool for CAN/CSA-F280

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):	8.81		
Building Configuration			
Type:	Detached		
Number of Stories:	Two		
Foundation:	Full		
House Volume (m ³):	1204.2		
Air Leakage/Ventilation			
Air Tightness Type:	Energy Star Detached (2.5 ACH)		
Custom BDT Data:	ELA @ 10 Pa.	1124.1 cm ²	
	2.50	ACH @ 50 Pa	
Mechanical Ventilation (L/s):	Total Supply	Total Exhaust	
	37.5	37.5	
Flue Size			
Flue #:	#1	#2	#3
Diameter (mm):	0	0	0
Natural Infiltration Rates			
Heating Air Leakage Rate (ACH/H):	0.274		
Cooling Air Leakage Rate (ACH/H):	0.089		

TYPE: KINMOUNT 6A
LO# 83548

LOT 73

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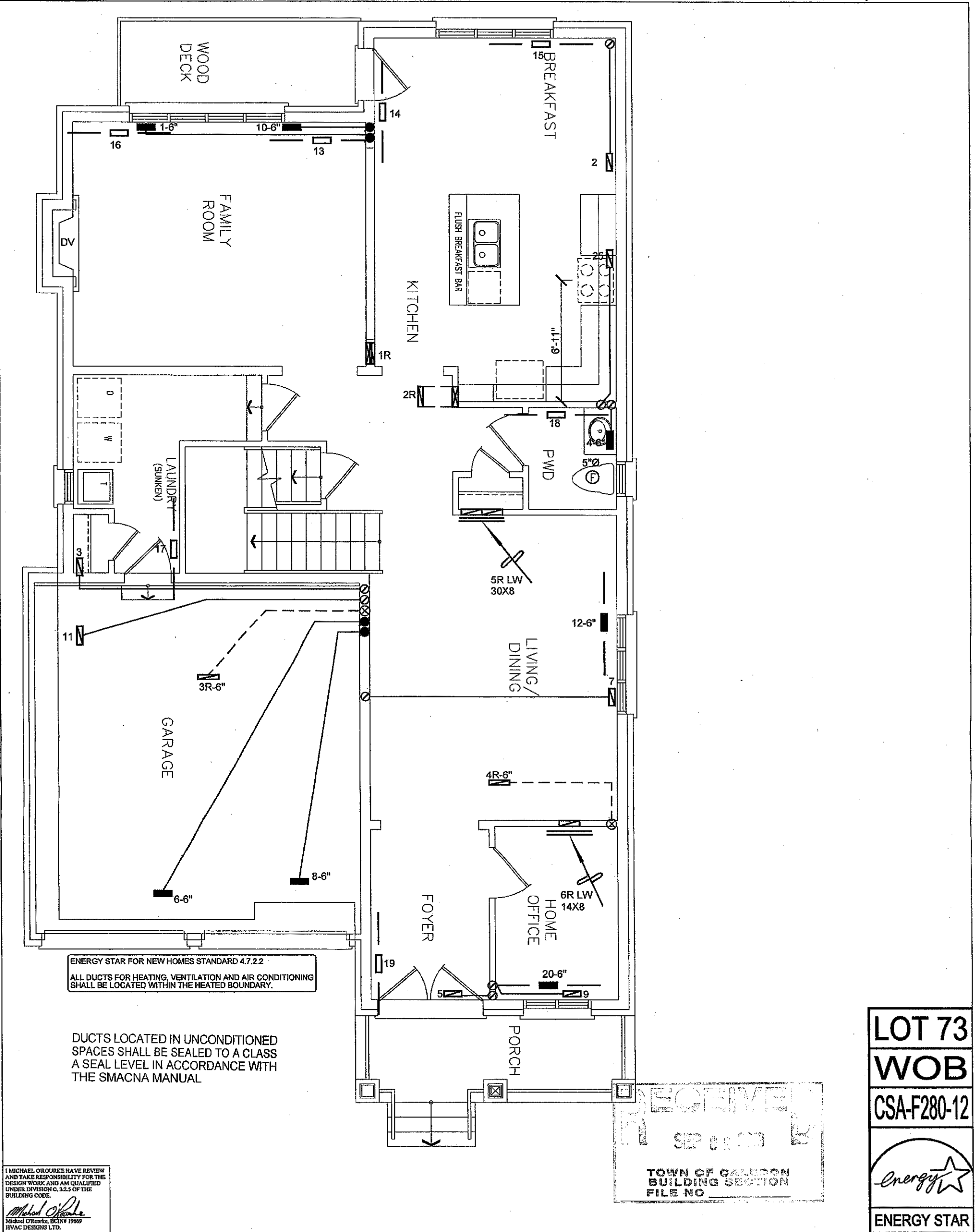


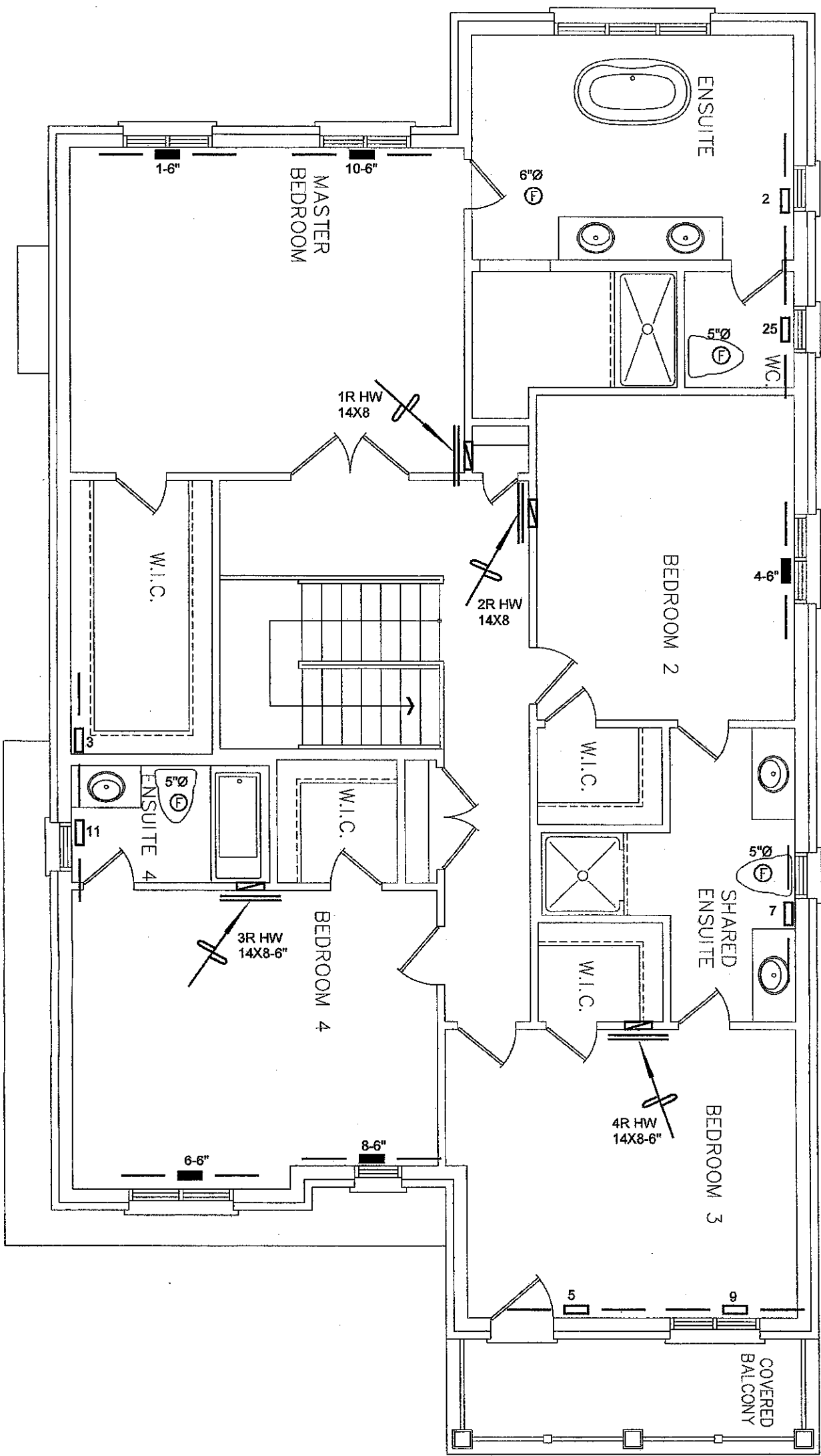
I MICHAEL O'Rourke HAVE REVIEWED AND TAKE RESPONSIBILITY FOR THE DESIGN WORK AND AM QUALIFIED UNDER DIVISION C, 3.2.3 OF THE BUILDING CODE.
Michael O'Rourke, BCIN# 19669
HVAC DESIGNS LTD.

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

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Client GREENPARK HOMES		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 49218 BTU/H UNIT DATA		# OF RUNS S/A R/A FANS				Sheet Title BASEMENT HEATING LAYOUT	
Project Name LAMBERT'S LANE HOME CORP PH 2 CALEDON, ONTARIO			MAKE GOODMAN	3RD FLOOR						
			MODEL GMEC960603BNA	2ND FLOOR		12	4	4		
			INPUT 60 MBTU/H	1ST FLOOR		9	2	2		
			OUTPUT 57.6 MBTU/H	BASEMENT		4	1	0		
LOT 73 KINMOUNT 6A 3062 sqft		COOLING 2.5 TONS	ALL S/A DIFFUSERS 4 "x10" UNLESS NOTED OTHERWISE ON LAYOUT. ALL S/A RUNS 5/8" UNLESS NOTED OTHERWISE ON LAYOUT. UNDERCUT DOORS 1" min. FOR R/A		Date AUG/2019				Scale 3/16" = 1'-0"	
		FAN SPEED 1131 cfm @ 0.5" w.c.					BCIN# 19669			
							LO#		83548	





LOT 73

WOB

CSA-F280-12

ENERGY STAR

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.

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

GREENPARK HOMES

Project Name

LAMBERT'S LANE HOME CORP PH 2
CALEDON, ONTARIO

LOT 73
KINMOUNT 6A 3062 sqft

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.

THIS STRUCTURE MUST BE
CONSTRUCTED TO MEET OR
EXCEED THE PROVISIONS OF
THE ONTARIO BUILDING CODE

Sheet Title

SECOND FLOOR
HEATING
LAYOUT

Date

AUG/2019

Scale

3/16" = 1'-0"

BCIN# 19669

LO# 83548