

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

SITE NAME: LAMBERT'S LANE PH.2				WOB				DATE: Jul-19				WINTER NATURAL AIR CHANGE RATE 0.262				HEAT LOSS AT °F. 74				CSA-F280-12							
BUILDER: GREENPARK HOMES				TYPE: PRESTON 1				GFA: 2507				LO# 82664				SUMMER NATURAL AIR CHANGE RATE 0.085				HEAT GAIN AT °F. 11				ENERGYSTAR			
ROOM USE				MBR		ENS		WIC		BED-2		BED-3		BED-4		BATH						ENS-2					
EXP. WALL				32		23		8		32		36		13		6						9					
CLG. HT.				8		8		8		8		8		8		8						8					
FACTORS																											
GRS.WALL AREA		LOSS GAIN		259		186		65		259		291		105		48						73					
GLAZING		LOSS GAIN		LOSS GAIN		LOSS GAIN		LOSS GAIN		LOSS GAIN		LOSS GAIN		LOSS GAIN		LOSS GAIN						LOSS GAIN					
NORTH		18.6 15.1		0 0 0		8 148 121		0 0 0		0 0 0		0 0 0		0 0 0		0 0 0		0 0 0				16 297 242					
EAST		18.6 40.7		0 0 0		0 0 0		0 0 0		30 557 1222		30 557 1222		0 0 0		0 0 0		0 0 0				0 0 0					
SOUTH		18.6 24.1		0 0 0		0 0 0		0 0 0		0 0 0		0 0 0		16 297 385		7 130 168						0 6 0					
WEST		18.6 40.7		32 594 1303		16 297 651		0 0 0		0 0 0		0 0 0		0 0 0		0 0 0		0 0 0				0 0 0					
SKYLT.		31.2 99.9		0 0 0		0 0 0		0 0 0		0 0 0		0 0 0		0 0 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 0 0		0 0 0		0 0 0		0 0 0		0 0 0				0 0 0					
NET EXPOSED WALL		3.5 0.5		227 797 118		162 569 84		65 227 34		229 804 119		281 918 136		89 313 46		41 146 22						57 200 30					
NET EXPOSED BSMT WALL ABOVE GR		3.5 0.5		0 0 0		0 0 0		0 0 0		0 0 0		0 0 0		0 0 0		0 0 0						0 0 0					
EXPOSED CLG		1.3 0.6		252 316 140		132 165 74		136 170 76		258 323 144		143 179 80		225 282 125		108 135 60						108 135 60					
NO ATTIC EXPOSED CLG		2.7 1.2		0 0 0		0 0 0		0 0 0		0 0 0		26 70 31		0 0 0		0 0 0						0 0 0					
EXPOSED FLOOR		2.5 0.4		0 0 0		0 0 0		0 0 0		258 642 95		30 75 11		42 105 16		0 0 0						72 179 27					
BASEMENT/CRAWL HEAT LOSS				0		0		0		0		0		0		0						0					
SLAB ON GRADE HEAT LOSS				0		0		0		0		0		0		0						0					
SUBTOTAL HT LOSS				1707		1180		398		2326		1798		997		411						811					
SUB TOTAL HT GAIN				1562		931		110		1580		1479		572		250						356					
LEVEL FACTOR / MULTIPLIER		0.20 0.22		0.20 0.22		0.20 0.22		0.20 0.22		0.20 0.22		0.20 0.22		0.20 0.22		0.20 0.22						0.20 0.22					
AIR CHANGE HEAT LOSS		371		257		87		506		391		217		89		99						176					
AIR CHANGE HEAT GAIN		78		46		5		79		74		29		12		0						99					
DUCT LOSS		0		0		0		283		219		121		0		0						38					
DUCT GAIN		0		0		0		244		233		138		0		0						0					
HEAT GAIN PEOPLE		240		2		480		0		0		1		240		1		240		0		0		0			
HEAT GAIN APPLIANCES/LIGHTS				539		0		0		539		539		539		539		539		0		0		0			
TOTAL HT LOSS BTU/H		2078		1437		484		3115		2408		1335		501		1086						538					
TOTAL HT GAIN x 1.3 BTU/H		3456		1270		149		3485		3335		1973		342													

RECEIVED

JUL 26 2019

TOWN OF CALEDON
BUILDING SECTION
FILE NO

ROOM USE		LVDN		KIT		FAM		LAUN		W/R		FOY		MUD		WOB		BAS	
EXP. WALL		40		39		36		12		14		18		25		40		128	
CLG. HT.		10		10		10		8		10		10		10		9		9	
FACTORS																			
GRS.WALL AREA		LOSS GAIN		390		360		97		140		180		250		360		768	
GLAZING		LOSS GAIN		LOSS GAIN		LOSS GAIN		LOSS GAIN		LOSS GAIN		LOSS GAIN		LOSS GAIN		LOSS GAIN		LOSS GAIN	
NORTH		18.6 15.1		0 0 0		0 0 0		8 148 121		0 0 0		0 0 0		10 186 151		53 983 802		0 0 0	
EAST		18.6 40.7		0 0 0		0 0 0		0 0 0		0 0 0		6 111 244		0 0 0		0 0 0		0 0 0	
SOUTH		18.6 24.1		28 519 674		0 0 0		0 0 0		9 167 217		0 0 0		0 0 0		0 0 0		8 148 193	
WEST		18.6 40.7		0 0 0		66 1224 2687		28 519 1140		0 0 0		0 0 0		0 0 0		22 408 896		0 0 0	
SKYLT.		31.2 99.9		0 0 0		0 0 0		0 0 0		0 0 0		0 0 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 0 0		40 986 146		20 493 73		0 0 0		20 493 73	
NET EXPOSED WALL		3.5 0.5		372 1308 194		324 1139 169		332 1168 173		89 313 46		131 461 68		134 471 70		220 774 115		285 1002 149	
NET EXPOSED BSMT WALL ABOVE GR		3.5 0.5		0 0 0		0 0 0		0 0 0		0 0 0		0 0 0		0 0 0		0 0 0		0 0 0	
EXPOSED CLG		1.3 0.6		0 0 0		0 0 0		0 0 0		144 180 80		0 0 0		0 0 0		0 0 0		384 1349 200	
NO ATTIC EXPOSED CLG		2.7 1.2		0 0 0		0 0 0		10 27 12		0 0 0		0 0 0		0 0 0		0 0 0		0 0 0	
EXPOSED FLOOR		2.5 0.4		0 0 0		0 0 0		0 0 0		0 0 0		0 0 0		0 0 0		0 0 0		0 0 0	
BASEMENT/CRAWL HEAT LOSS				0		0		0		0		0		0		0		2336	
SLAB ON GRADE HEAT LOSS				0		0		0		0		0		0		0			
SUBTOTAL HT LOSS				1828		2364		1714		642		1569		1452		522		4326	
SUB TOTAL HT GAIN		868		2856		1325		248		285		460		339		1847		466	
LEVEL FACTOR / MULTIPLIER		0.30 0.35		0.30 0.35		0.30 0.35		0.20 0.22		0.30 0.35		0.30 0.35		0.30 0.35		0.50 0.77			
AIR CHANGE HEAT LOSS		641		829		601		140		220		550		509		5582			
AIR CHANGE HEAT GAIN		43		142		66		12		14		23		17		115			
DUCT LOSS		0		0		0		0		0		0		0		0			
DUCT GAIN		0		0		0		0		0		0		0		0			
HEAT GAIN PEOPLE		240		0		0		0		0		0		0		0			
HEAT GAIN APPLIANCES/LIGHTS				539		539		539		539		539		539		539			
TOTAL HT LOSS BTU/H		2468		3192		2314		781		848		2118		1961		2915		9909	
TOTAL HT GAIN x 1.3 BTU/H		1885		4599		2509		1039		389		628		1163		2401		1455	

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TOWN OF CALEDON
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FILE NO.

ROOM USE			LV/DN		KIT		FAM		LAUN		W/R		FOY		MUD						WOB		BAS			
EXP. WALL			40		39		36		12		14		18		25						40		128			
CLG. HT.			10		10		10		8		10		10		10						9		9			
GRS.WALL AREA	FACTORS		400		390		360		97		140		180		250						360		768			
GLAZING	LOSS	GAIN	LOSS	GAIN	LOSS	GAIN	LOSS	GAIN	LOSS	GAIN	LOSS	GAIN	LOSS	GAIN	LOSS	GAIN	LOSS	GAIN	LOSS	GAIN	LOSS	GAIN	LOSS	GAIN		
NORTH	18.6	15.1	0	0	0	0	0	0	8	148	121	0	0	0	0	0	10	186	151	53	983	802	0	0	0	
EAST	18.6	40.7	0	0	0	0	0	0	0	0	0	0	0	0	6	111	244	0	0	0	0	0	0	0		
SOUTH	18.6	24.1	28	519	674	0	0	0	0	0	0	9	167	217	0	0	0	0	0	0	0	0	8	148	193	
WEST	18.6	40.7	0	0	0	66	1224	2687	28	519	1140	0	0	0	0	0	0	0	0	22	408	896	0	0	0	
SKYLT.	31.2	99.9	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	40	986	146	20	493	73	0	0	20	493	73	
NET EXPOSED WALL	3.5	0.5	372	1308	194	324	1139	169	332	1168	173	89	313	46	131	461	68	134	471	70	220	774	115	0	0	0
NET EXPOSED BSMT WALL ABOVE GR	3.5	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
EXPOSED CLG	1.3	0.6	0	0	0	0	0	0	0	144	180	80	0	0	0	0	0	0	0	0	0	0	0	384	1349	200
NO ATTIC EXPOSED CLG	2.7	1.2	0	0	0	0	0	0	10	27	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXPOSED FLOOR	2.5	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
BASEMENT/CRAWL HEAT LOSS			0			0			0			0			0			0							2336	
SLAB ON GRADE HEAT LOSS			0			0			0			0			0			0								
SUBTOTAL HT LOSS			1828			2364			1714			642			628			1569			1452			522		
SUB TOTAL HT GAIN				868			2856			1325		248		285		460				339			2915		1847	466
LEVEL FACTOR / MULTIPLIER	0.30	0.35				0.30	0.35		0.30	0.35		0.30	0.35		0.30	0.35		0.30	0.35				0.50	0.77		
AIR CHANGE HEAT LOSS			641			829			601			140			220			550			509					5582
AIR CHANGE HEAT GAIN				43			142			66		12		14		23				17						115
DUCT LOSS			0			0		0		0		0		0		0				0				0		0
DUCT GAIN			0			0		0		0		0		0		0				0			0		0	0
HEAT GAIN PEOPLE	240		0			0		0		0		0		0		0		0		0			0		0	0
HEAT GAIN APPLIANCES/LIGHTS				539			539			539		539		0		0			539				0			539
TOTAL HT LOSS BTU/H			2468			3192			2314			781		848		2118			1961			2915				
TOTAL HT GAIN x 1.3 BTU/H				1885			4599			2509		1039		389		628			1163			2401				1455

TOTAL HEAT GAIN BTU/H: 30852 TONS: 2.57 LOSS DUE TO VENTILATION LOAD BTU/H: 1593 STRUCTURAL HEAT LOSS: 38951 TOTAL COMBINED HEAT LOSS BTU/H: 40544

Michael O'Rourke

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

WOB
TYPE: PRESTON 1

DATE: Jul-19

GFA: 2507 LO# 82664

HEATING CFM 1131 COOLING CFM 1131
TOTAL HEAT LOSS 38,951 TOTAL HEAT GAIN 30,615
AIR FLOW RATE CFM 29.04 AIR FLOW RATE CFM 36.94

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

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

FAN SPEED
LOW
MEDLOW
MEDIUM
MEDIUM HIGH
HIGH 1131

DESIGN CFM = 1131
CFM @ .5" E.S.P.

TEMPERATURE RISE 47 °F

RUN COUNT	4th	3rd	2nd	1st	Bas
S/A	0	0	12	8	4
R/A	0	0	4	2	1

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

plenum pressure s/a 0.18 r/a pressure 0.17
max s/a dif press. loss 0.02 r/a grille press. Loss 0.02
min adjusted pressure s/a 0.16 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-2	BED-3	MBR	ENS-2	LV/DN	KIT	KIT	FAM	FAM	LAUN	W/R	FOY	MUD	BAS	BAS	BAS	BAS
RM LOSS MBH.	1.04	1.44	0.48	1.56	1.20	1.33	0.50	1.56	1.20	1.04	1.09	2.47	1.60	1.60	1.16	1.16	0.78	0.85	2.12	1.96	3.21	3.21	3.21	3.21
CFM PER RUN HEAT	30	42	14	45	35	39	15	45	35	30	32	72	46	46	34	34	23	25	62	57	93	93	93	93
RM GAIN MBH.	1.73	1.27	0.15	1.74	1.67	1.97	0.34	1.74	1.67	1.73	0.54	1.88	2.30	2.30	1.25	1.25	1.04	0.39	0.63	1.16	0.96	0.96	0.96	0.96
CFM PER RUN COOLING	64	47	6	64	62	73	13	64	62	64	20	70	85	85	46	46	38	14	23	43	36	36	36	36
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	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.16
ACTUAL DUCT LGH.	61	73	48	48	35	37	41	50	28	51	41	13	41	45	52	42	47	20	30	36	48	59	23	17
EQUIVALENT LENGTH	140	190	190	190	130	220	210	160	140	150	180	190	170	170	190	160	150	150	160	170	220	160	170	170
TOTAL EFFECTIVE LENGTH	201	263	238	238	165	257	251	210	168	201	221	203	211	215	242	202	197	170	180	196	218	279	183	187
ADJUSTED PRESSURE	0.09	0.07	0.07	0.07	0.1	0.07	0.07	0.08	0.1	0.09	0.08	0.08	0.08	0.08	0.07	0.09	0.09	0.1	0.1	0.09	0.07	0.06	0.09	0.09
ROUND DUCT SIZE	5	5	4	5	5	6	4	5	5	5	4	5	6	6	5	4	4	4	5	5	6	6	6	6
HEATING VELOCITY (ft/min)	220	308	161	330	257	199	172	330	257	220	367	529	235	235	250	390	264	287	455	419	474	474	474	474
COOLING VELOCITY (ft/min)	470	345	69	470	455	372	149	470	455	470	229	514	433	433	338	528	436	161	169	316	184	184	184	184
OUTLET GRILL SIZE	3X10	3X10	3X10	3X10	3X10	4X10	3X10	3X10	3X10	3X10	3X10	3X10	4X10	4X10	3X10	3X10	3X10	3X10	3X10	3X10	4X10	4X10	4X10	4X10
TRUNK	A	A	B	B	C	B	B	B	C	A	B	C	A	A	A	A	B	C	C	B	A	A	B	C

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
1	MBR	1.04	30	1.73	64	0.17	61	140	201	0.09	5	220	470	3X10	A
2	ENS	1.44	42	1.27	47	0.17	73	190	263	0.07	5	308	345	3X10	A
3	WIC	0.48	14	0.15	6	0.17	48	190	238	0.07	4	161	69	3X10	B
4	BED-2	1.56	45	1.74	64	0.17	48	190	238	0.07	5	330	470	3X10	B
5	BED-3	1.20	35	1.67	62	0.17	35	130	165	0.1	5	257	455	3X10	C
6	BED-4	1.33	39	1.97	73	0.17	37	220	257	0.07	6	199	372	4X10	B
7	BATH	0.50	15	0.34	13	0.17	41	210	251	0.07	4	172	149	3X10	B
8	BED-2	1.56	45	1.74	64	0.17	50	160	210	0.08	5	330	470	3X10	B
9	BED-3	1.20	35	1.67	62	0.17	28	140	168	0.1	5	257	455	3X10	C
10	MBR	1.04	30	1.73	64	0.17	51	150	201	0.09	5	220	470	3X10	A
11	ENS-2	1.09	32	0.54	20	0.17	41	180	221	0.08	4	367	229	3X10	B
12	LV/DN	2.47	72	1.88	70	0.17	13	190	203	0.08	5	529	514	3X10	C
13	KIT	1.60	46	2.30	85	0.16	41	170	211	0.08	6	235	433	4X10	A
14	KIT	1.60	46	2.30	85	0.16	45	170	215	0.08	6	235	433	4X10	A
15	FAM	1.16	34	1.25	46	0.17	52	190	242	0.07	5	250	338	3X10	A
16	FAM	1.16	34	1.25	46	0.17	42	160	202	0.09	4	390	528	3X10	A
17	LAUN	0.78	23	1.04	38	0.17	47	150	197	0.09	4	264	436	3X10	B
18	W/R	0.85	25	0.39	14	0.17	20	150	180	0.1	4	287	161	3X10	C
19	FOY	2.12	62	0.63	23	0.17	30	160	196	0.09	5	455	316	3X10	C
20	MUD	1.96	57	1.16	43	0.17	36	170	218	0.07	5	419	184	3X10	B
21	BAS	3.21	93	0.96	36	0.16	48	220	279	0.06	6	474	184	4X10	A
22	BAS	3.21	93	0.96	36	0.16	59	160	279	0.06	6	474	184	4X10	A
23	BAS	3.21	93	0.96	36	0.16	23	170	183	0.09	6	474	184	4X10	B
24	BAS	3.21	93	0.96	36	0.16	17	170	187	0.09	6	474	184	4X10	C

SUPPLY AIR TRUNK SIZE													RETURN AIR TRUNK SIZE												
TRUNK	STATIC	ROUND	RECT	VELOCITY			TRUNK	STATIC	ROUND	RECT	VELOCITY			TRUNK	STATIC	ROUND	RECT	VELOCITY							
CFM	PRESS.	DUCT	DUCT			(ft/min)	CFM	PRESS.	DUCT	DUCT			(ft/min)	CFM	PRESS.	DUCT	DUCT			(ft/min)					
TRUNK A	448	0.06	11.2	14	x	8	576	0	0.00	0	0	x	8	0	0.05	0	0	x	8	0					
TRUNK B	811	0.06	13.9	22	x	8	664	0	0.00	0	0	x	8	0	0.05	0	0	x	8	0					
TRUNK C	322	0.08	9.2	10	x	8	580	0	0.00	0	0	x	8	0	0.05	0	0	x	8	0					
TRUNK D	0	0.00	0	0	x	8	0	0	0.00	0	0	x	8	0	0.05	0	0	x	8	0					
TRUNK E	0	0.00	0	0	x	8	0	0	0.00	0	0	x	8	0	0.05	0	0	x	8	0					
TRUNK F	0	0.00	0	0	x	8	0	0	0.00	0	0	x	8	0	0.05	0	0	x	8	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	130	135	130	95	310	150	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.	61	48	49	47	40	71	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
EQUIVALENT LENGTH	185	225	175	145	255	190	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL EFFECTIVE LH	246	273	224	192	295	261	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ADJUSTED PRESSURE	0.06	0.05	0.07	0.08	0.05	0.06	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	7.5	6.8	5.8	10.2	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	14	14	14	14	30	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TYPE: PRESTON 1
SITE NAME: LAMBERT'S LANE PH.2

LO # 82664
WOB

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	5 @ 10.6 cfm	53 cfm
Other Rooms	6 @ 10.6 cfm	63.6 cfm
Table 9.32.3.A. TOTAL		190.8 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		79.5 cfm

SUPPLEMENTAL VENTILATION CAPACITY		9.32.3.5.
Total Ventilation Capacity	190.8	cfm
Less Principal Ventil. Capacity	79.5	cfm
Required Supplemental Capacity	111.3	cfm

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

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

SUPPLEMENTAL FANS		PANASONIC	
Location	Model	cfm	HVI Sones
ENS	FV-05-11VK1	50	☒ 0.3
BATH	FV-05-11VK1	50	☒ 0.3
ENS-2	FV-05-11VK1	50	☒ 0.3
W/R	FV-05-11VK1	50	☒ 0.3

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

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:	<i>Michael O'Rourke</i>
HRAI #	001820
Date:	July-19

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 *Michael O'Rourke* MICHAEL O'ROURKE

THIS STRUCTURE MUST BE
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CSA F280-12 Residential Heat Loss and Heat Gain Calculations																																																														
Formula Sheet (For Air Leakage / Ventilation Calculation)																																																														
LO#: 82664	Model: PRESTON 1	Builder: GREENPARK HOMES	Date: 7/12/2019																																																											
Volume Calculation		Air Change & Delta T Data																																																												
House Volume <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Level</th> <th>Floor Area (ft²)</th> <th>Floor Height (ft)</th> <th>Volume (ft³)</th> </tr> </thead> <tbody> <tr> <td>Bsmt</td> <td>1087</td> <td>9</td> <td>9783</td> </tr> <tr> <td>First</td> <td>1087</td> <td>10</td> <td>10870</td> </tr> <tr> <td>Second</td> <td>1418</td> <td>8</td> <td>11461.694</td> </tr> <tr> <td>Third</td> <td>0</td> <td>9</td> <td>0</td> </tr> <tr> <td>Fourth</td> <td>0</td> <td>9</td> <td>0</td> </tr> <tr> <td colspan="3" style="text-align: right;">Total:</td> <td>32,114.7 ft³</td> </tr> <tr> <td colspan="3" style="text-align: right;">Total:</td> <td>909.4 m³</td> </tr> </tbody> </table>		Level	Floor Area (ft²)	Floor Height (ft)	Volume (ft³)	Bsmt	1087	9	9783	First	1087	10	10870	Second	1418	8	11461.694	Third	0	9	0	Fourth	0	9	0	Total:			32,114.7 ft³	Total:			909.4 m³	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">WINTER NATURAL AIR CHANGE RATE</th> <th>0.262</th> </tr> </thead> <tbody> <tr> <td colspan="2">SUMMER NATURAL AIR CHANGE RATE</td> <td>0.085</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="5">Design Temperature Difference</th> </tr> <tr> <th></th> <th>T_{in} °C</th> <th>T_{out} °C</th> <th>ΔT °C</th> <th>ΔT °F</th> </tr> </thead> <tbody> <tr> <td>Winter DTDh</td> <td>22</td> <td>-19</td> <td>41</td> <td>74</td> </tr> <tr> <td>Summer DTDc</td> <td>24</td> <td>30</td> <td>6</td> <td>11</td> </tr> </tbody> </table>			WINTER NATURAL AIR CHANGE RATE		0.262	SUMMER NATURAL AIR CHANGE RATE		0.085	Design Temperature Difference						T _{in} °C	T _{out} °C	ΔT °C	ΔT °F	Winter DTDh	22	-19	41	74	Summer DTDc	24	30	6	11
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5.2.3.1 Heat Loss due to Air Leakage		6.2.6 Sensible Gain due to Air Leakage																																																												
$HL_{airb} = LR_{airh} \times \frac{V_b}{3.6} \times DTD_h \times 1.2$ 0.262 x 252.61 x 41 °C x 1.2 = 3272 W = 11164 Btu/h		$HG_{salb} = LR_{airc} \times \frac{V_b}{3.6} \times DTD_c \times 1.2$ = 0.085 x 252.61 x 6 °C x 1.2 = 158 W = 538 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)																																																														
$HL_{airr} = Level\ Factor \times HL_{airbv} \times \{(HL_{agcr} + HL_{bgcr}) \div (HL_{agclevel} + HL_{bgclevel})\}$ <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Level</th> <th>Level Factor (LF)</th> <th>HL_{airbv} Air Leakage + Ventilation Heat Loss (Btu/h)</th> <th>Level Conductive Heat Loss: (HL_{level})</th> <th>Air Leakage Heat Loss Multiplier (LF x HL_{airbv} / HL_{level})</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>0.5</td> <td rowspan="5" style="text-align: center;">11,164</td> <td>7,242</td> <td>0.771</td> </tr> <tr> <td>2</td> <td>0.3</td> <td>9,553</td> <td>0.351</td> </tr> <tr> <td>3</td> <td>0.2</td> <td>10,269</td> <td>0.217</td> </tr> <tr> <td>4</td> <td>0</td> <td>0</td> <td>0.000</td> </tr> <tr> <td>5</td> <td>0</td> <td>0</td> <td>0.000</td> </tr> </tbody> </table> *HL_{airbv} = Air leakage heat loss + ventilation heat loss *For a balanced or supply only ventilation system HL_{airv} = 0					Level	Level Factor (LF)	HL _{airbv} Air Leakage + Ventilation Heat Loss (Btu/h)	Level Conductive Heat Loss: (HL _{level})	Air Leakage Heat Loss Multiplier (LF x HL _{airbv} / HL _{level})	1	0.5	11,164	7,242	0.771	2	0.3	9,553	0.351	3	0.2	10,269	0.217	4	0	0	0.000	5	0	0	0.000																																
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HEAT LOSS AND GAIN SUMMARY SHEET

MODEL: PRESTON 1	WOB	BUILDER: GREENPARK HOMES
SFQT: 2507	LO# 82664	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

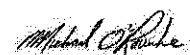
BUILDING DATA

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):	32114.7	ASSUMED (Y/N):	Y
INTERNAL SHADING:	BLINDS/CURTAINS	ASSUMED OCCUPANTS:	5
INTERIOR LIGHTING LOAD (Btu/h/ft²):	1.50	DC BRUSHLESS MOTOR (Y/N):	Y
FOUNDATION CONFIGURATION	BCIN_1	DEPTH BELOW GRADE:	6.0 ft
LENGTH: 54.0 ft	WIDTH: 30.0 ft	EXPOSED PERIMETER:	128.0 ft
WOB INSULATION CONFIGURATION	SCB_9	WOB EXPOSED PERIMETER	40.0 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	-

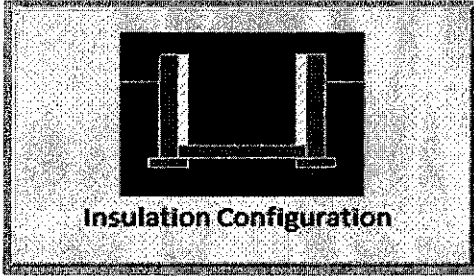
INDIVIDUAL BCIN: 19669
MICHAEL O'ROURKE



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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):	4.6	 Insulation Configuration
Floor Width (m):	9.1	
Exposed Perimeter (m):	39.0	
Wall Height (m):	2.7	
Depth Below Grade (m):	1.52	
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):		684

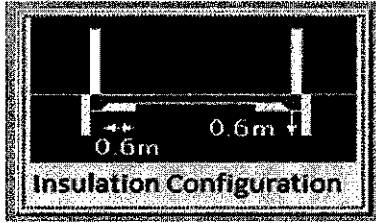
TYPE: PRESTON 1
LO# 82664

WOB

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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):	1.5	 Insulation Configuration
Width (m):	9.1	
Exposed Perimeter (m):	12.2	
Radiant Slab		
Heated Fraction of the Slab:	0	
Fluid Temperature (°C):	33	
Design Months		
Heating Month	1	
Results		
Heating Load (Watts):		153

TYPE: PRESTON 1
LO# 82664

WOB

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Air Infiltration Residential Load Calculator

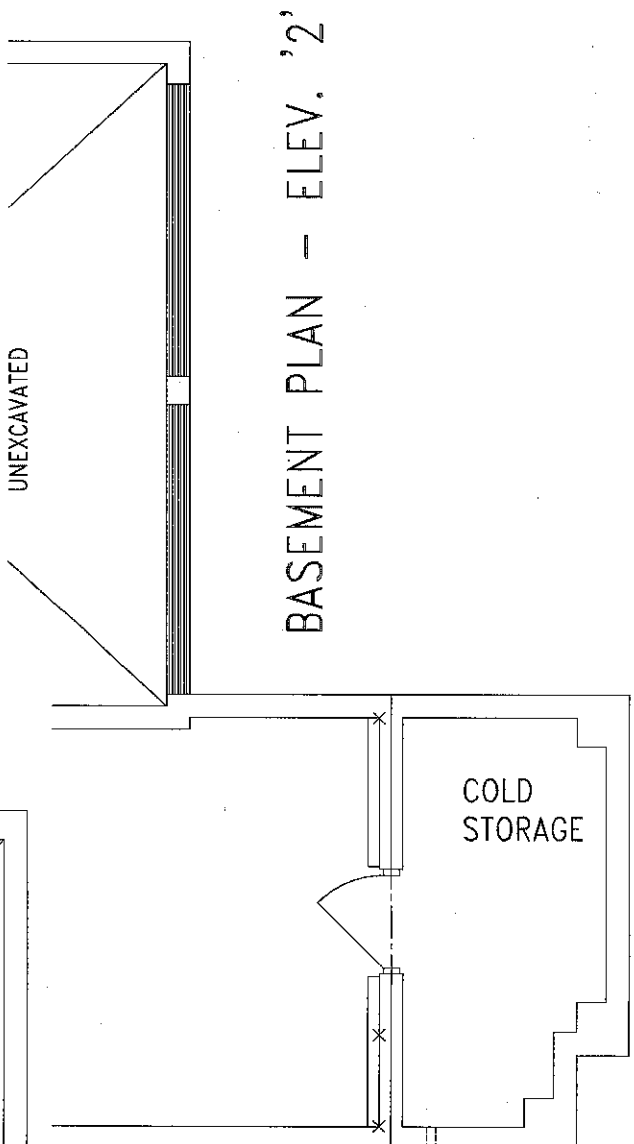
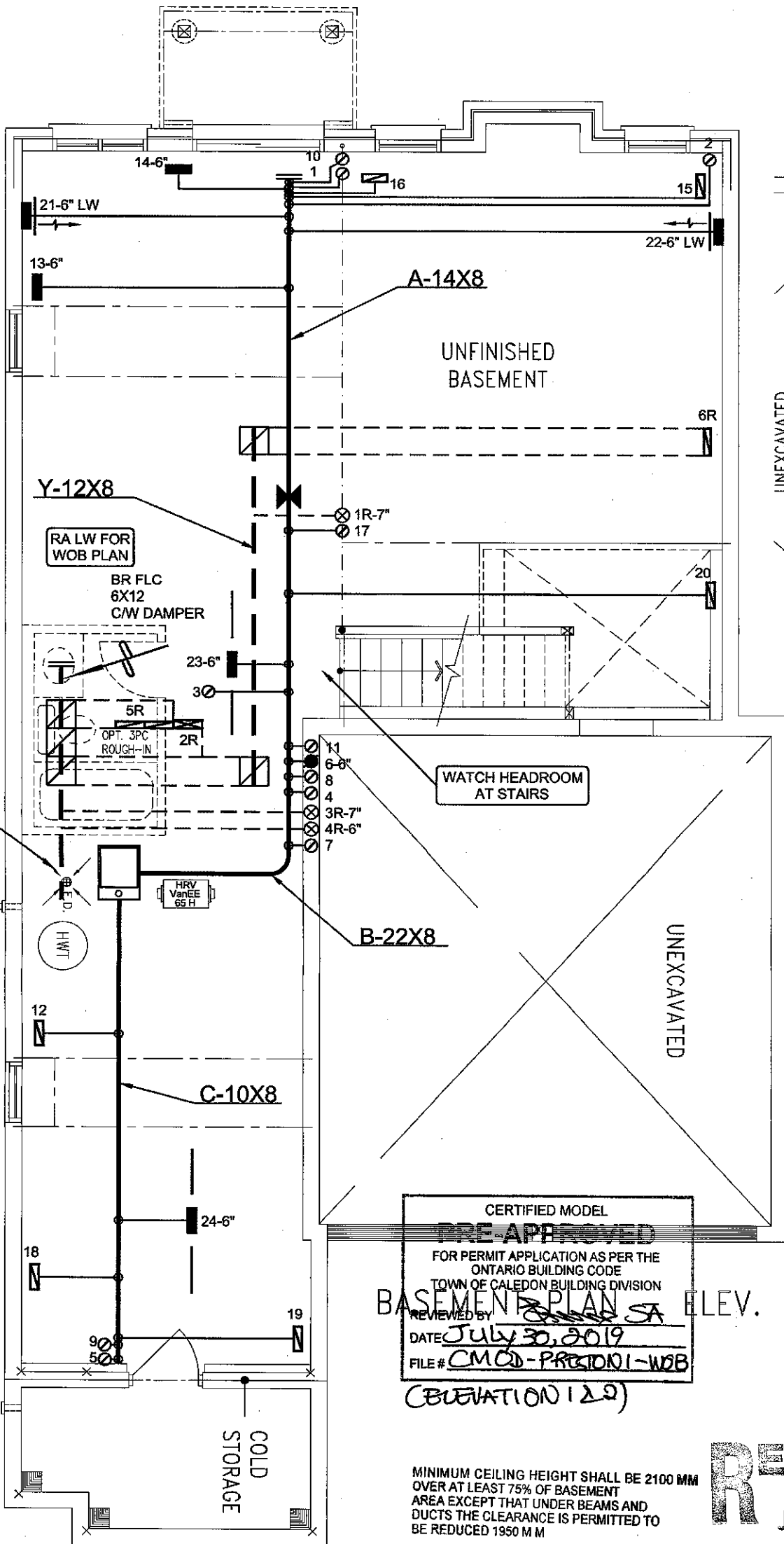
Supplemental tool for CAN/CSA-F280

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):	8.25		
Building Configuration			
Type:	Detached		
Number of Stories:	Two		
Foundation:	Full		
House Volume (m ³):	909.4		
Air Leakage/Ventilation			
Air Tightness Type:	Energy Star Detached (2.5 ACH)		
Custom BDT Data:	ELA @ 10 Pa.	848.9 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):	0.262		
Cooling Air Leakage Rate (ACH/H):	0.085		

TYPE: PRESTON 1
LO# 82664

WOB

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CERTIFIED MODEL
PRE-APPROVED
FOR PERMIT APPLICATION AS PER THE
ONTARIO BUILDING CODE
TOWN OF CALEDON BUILDING DIVISION
REVIEWED BY SA
DATE July 30, 2019
FILE # CMO-PRE-2001-WOB
(BUVATION 122)

MINIMUM CEILING HEIGHT SHALL BE 2100 MM
OVER AT LEAST 75% OF BASEMENT
AREA EXCEPT THAT UNDER BEAMS AND
DUCTS THE CLEARANCE IS PERMITTED TO
BE REDUCED 1950 M M

RECEIVED
JUL 26 2019

TOWN OF CALEDON
BUILDING SECTION
FILE NO.

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WOB
CSA-F280-12

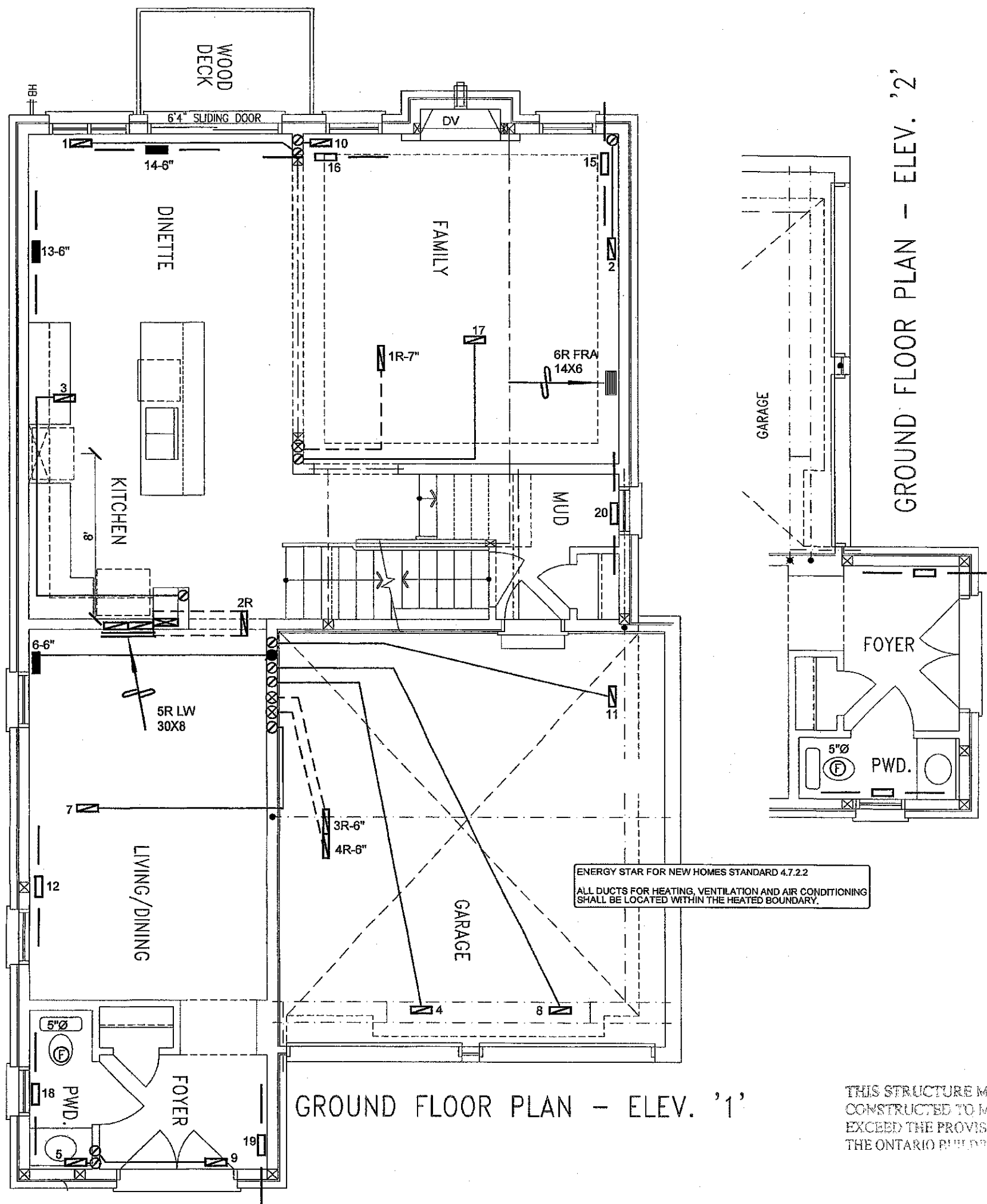
ENERGY STAR

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	
	SUPPLY AIR GRILLE		6" SUPPLY AIR BOOT ABOVE		14"x8" RETURN AIR GRILLE		RETURN AIR STACK ABOVE	2.
	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		8" SUPPLY AIR STACK 2nd FLOOR		FRA- FLOOR RETURN AIR GRILLE		REDUCER	No. Description Date

ALL DRAWINGS, CALCULATIONS AND SPECIFICATIONS ARE THE PROPERTY OF HVAC DESIGNS LTD. AND MAY NOT BE REPRODUCED, MODIFIED OR ALTERED WITHOUT EXPRESSED WRITTEN CONSENT. THE DRAWINGS ARE DATED AND USE OF THESE DRAWINGS AFTER ONE YEAR FROM THE DATED NOTED IS NOT AUTHORIZED. CONTRACTOR SHALL CHECK ALL CONDITIONS BEFORE PROCEEDING WITH WORK. LATEST MUNICIPAL APPROVED DRAWINGS ONLY TO BE USED DURING INSTALLATION OF HEATING SYSTEM. HVAC DESIGNS LTD. IS NOT LIABLE FOR ANY CLAIMS ARISING FROM UNAUTHORIZED USE OF THE DRAWINGS OR FROM ANY CHANGES TO ACCEPTED STANDARDS AND/OR THE ONTARIO BUILDING CODE.

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 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.	HEAT LOSS 40544 BTU/H UNIT DATA		# OF RUNS S/A R/A FANS				Sheet Title				
GREENPARK HOMES		MAKE GOODMAN	MODEL GMEC960603BNA-60	INPUT 60 MBTU/H	OUTPUT 57.6 MBTU/H	COOLING 2.5 TONS	FAN SPEED 1131 cfm @ 0.6" w.c.	3RD FLOOR		BASEMENT HEATING LAYOUT		
Project Name LAMBERTS LANE HOME CORP PH 2 CALEDON, ONTARIO								2ND FLOOR	12		4	4
								1ST FLOOR	8		2	2
								BASEMENT	4	1	0	Date JUNE/2019
												Scale 3/16" = 1'-0"
											BCIN# 19669	
											LO# 82664	
	PRESTON 1 WOB 2507 sqft											



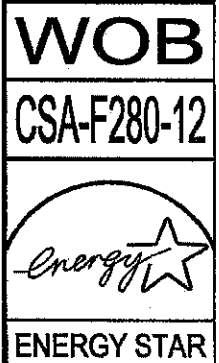
GROUND FLOOR PLAN - ELEV. '1'

GROUND FLOOR PLAN - ELEV. '2'

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

RECEIVED
JUL 26 2019

TOWN OF CALEDON
BUILDING SECTION
FILE NO.



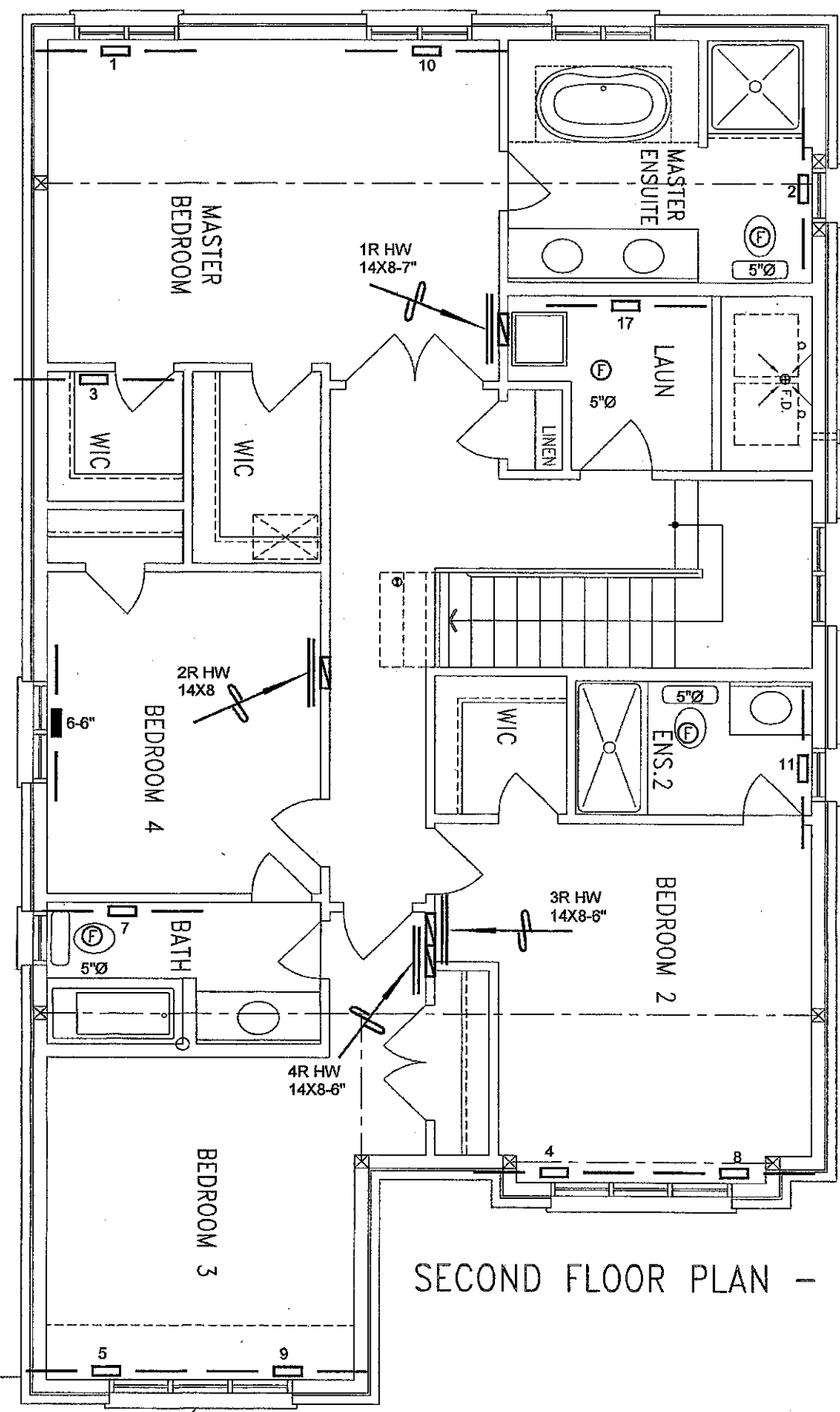
DUCTS LOCATED IN UNCONDITIONED SPACES SHALL BE SEALED TO A CLASS A SEAL LEVEL IN ACCORDANCE WITH THE SMACNA MANUAL

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, BCIN# 19669
HVAC DESIGNS LTD.

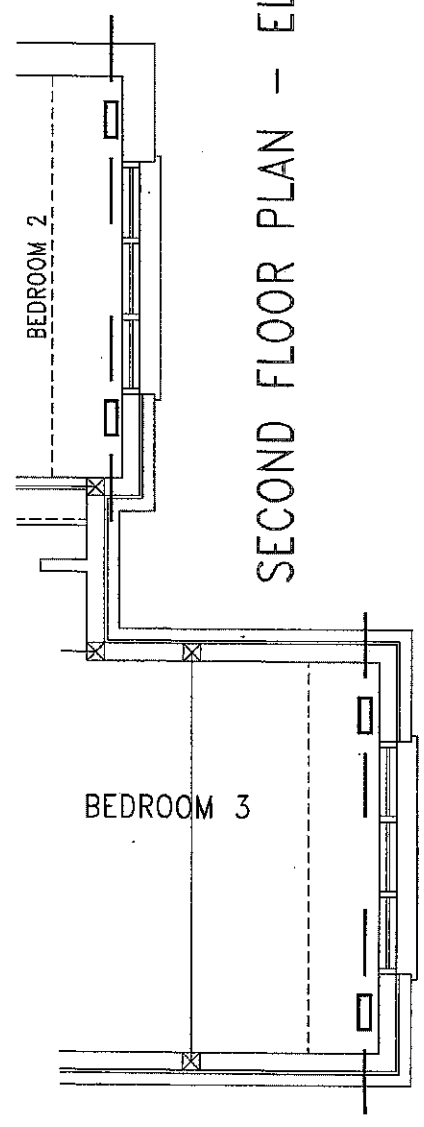
HVAC LEGEND								3.	
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	SUPPLY AIR GRILLE 6" BOOT		SUPPLY AIR STACK FROM 2nd FLOOR		30"x8" RETURN AIR GRILLE		RETURN AIR STACK 2nd FLOOR	1.	
	SUPPLY AIR BOOT ABOVE		6" SUPPLY AIR STACK 2nd FLOOR		FRA- FLOOR RETURN AIR GRILLE		REDUCER	No.	Description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

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Client 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 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	
Project Name LAMBERTS LANE HOME CORP PH 2 CALEDON, ONTARIO			Date JUNE/2019	
PRESTON 1 WOB 2507 sqft			Scale 3/16" = 1'-0"	
			BCIN# 19669	
			LO# 82664	



SECOND FLOOR PLAN - ELEV. '1'



SECOND FLOOR PLAN - ELEV. '2'

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.

RECEIVED
JUL 26 2019

TOWN OF CALEDON
BUILDING SECTION
FILE NO

WOB

CSA-F280-12

ENERGY STAR

HVAC LEGEND							
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SUPPLY AIR GRILLE		6" SUPPLY AIR BOOT ABOVE		14"x8" RETURN AIR GRILLE		RETURN AIR STACK ABOVE
	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

No.	Description	Date
3.		
2.		
1.		

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Client

GREENPARK HOMES

Project Name

LAMBERTS LANE HOME CORP PH 2
CALEDON, ONTARIO

PRESTON 1 WOB 2507 sqft

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L1S 2E2 Tel. 905.619.2300 - 905.420.5300 Fax 905.619.2375
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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

JUNE/2019

Scale

3/16" = 1'-0"

BCIN# 19669

LO#

82664