

Block 120 Units 19 to 24

375 Finley Ave. Suite 202 Ajax, ON L1S 2E2
Tel: 905.619.2300 Fax: 905.619.2375
Web: www.hvacdesigns.ca E-mail: info@hvacdesigns.ca

		SSINA		_														DATE: A								ANGERATE 0.319	HEAT LOSS				CSA-F28	
BUILDER:		PARK	OWES					TYPE	CHER					GFA:				LO# 98	5049				R NAT			ANGERATE 0.085	HEAT GAIN	ΔT°F.	9	SB-12 F	ACKAG	E A1
ROOM USE				MBR			ENS		1	WIC		1	BED-2			BED-3					BATH			FLEX	(]				
EXP. WALL	1			11			14		1	0			10			10					0		l	0				l				- 1
CLG. HT.	1			9			9			9			9			9					9			9				1				
000 0001	FACTO									_										1												- 1
GRS.WALL AREA		GAIN		99			126			0			90			90				1	0			0								
GLAZING	4			LOSS	GAIN	t	LOSS]	LOSS				GAIN		Loss					Loss	GAIN		LOSS	GAIN							
NORTH	1	15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0							- [
EAST	1	40.5	0	0	0	0	0	0	0	0	0	18	365	730	16	324	649			0	0	0	0	0	0							
SOUTH	1	23.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0							
WEST	1	40.5	27	547	1095	24	487	973	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0							1
SKYLT.	35.5	99.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0							
DOORS		2.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0			l		į		
NET EXPOSED WALL		0.5	72	306	39	102	434	55	0	0	0	72	306	39	74	315	40			0	0	0	0	0	0	i l						
NET EXPOSED BSMT WALL ABOVE GR	3.4	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0							
EXPOSED CLG	1.2	0.5	300	367	158	160	196	84	60	73	32	170	208	90	180	220	95			130	159	68	190	232	100					1		
NO ATTIC EXPOSED CLG	2.6	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0					1		
EXPOSED FLOOR	2.4	0.3	176	428	54	0	0	0	24	58	7	0	0	0	72	175	22			48	117	15	0	0	0							
BASEMENT/CRAWL HEAT LOSS	:	- 1		0			0			0			0			0				1	0		1	0	-							
SLAB ON GRADE HEAT LOSS	1	ļ		0			0			0			0			0					0			0				1		1		- 1
SUBTOTAL HT LOSS				1648			1116			132			879			1034					276			232						1		
SUB TOTAL HT GAIN	ıl				1346			1112			39			858	İ		806				-10	83		202	100					1		- 1
LEVEL FACTOR / MULTIPLIER	d		0.20	0.40		0.20	0.40		0.20	0.40	30	0.20	0.40		0.20	0.40				0.20	0.40	93	0.00	0.40	100					1		
AIR CHANGE HEAT LOSS				659		**	446			53			351] ""	413				1 0.20	110		0.20	93								- 1
AIR CHANGE HEAT GAIN	ıl			***	87		440	72		-	3		501	55		410	52				110	5		50						1		
DUCT LOSS				231	01		n	12		18	•		0	33		145	32				39	9		•	6			l.		1		
DUCT GAIN				231	250		v	0		10	4		U	0		145	168				39			0								
HEAT GAIN PEOPLE			2		480	0		0	0		0			240	1		240			١.		9			0					[
HEAT GAIN APPLIANCES/LIGHTS	1		-		585	v		0	"		0			585	'		585			0		0	0		0					l		
TOTAL HT LOSS BTU/H	1			2537	363		1562	U		202			4000	585		4500	585					0			685					l		
TOTAL HT GAIN x 1.3 BTU/H	1	-		2001	3571		1502	1540		203	59		1230	2260		1592				1	424			325						1		
TO TAE ITT GAIN X 1.3 BTO/F	Ц				35/1			1540	<u> </u>		59			2260			2406					127	L		899	LL		L		<u> </u>		
ROOM USE	T								I	K/L/D								F	PWD	T	FOY							·		l	BAS	
EXP. WALL	·l	j							1	48									15	1	30										91	
CLG. HT.										10									10	1	10										9	1
	FACTO	ne l							1					- 1	ı					1												-
GRS.WALL AREA									1											1											546	-
GLAZING										480				İ					150		300									l	อ4ช	1
											GAIN								150 .OSS GAIN			GAIN										MIA
NORTH									0		GAIN 0							L		0		GAIN 0									.oss G	
•	20.3	GAIN							0 56	LOSS	1							L	OSS GAIN	0	Loss									1	.oss G	0
NORTH	20.3	GAIN 15.0								LOSS 0	0							0 L	OSS GAIN	ł	LOSS 0	0								1	.oss G 0 81	0 162
NORTH EAST	20.3 20.3 20.3	GAIN 15.0 40.5							56	LOSS 0 1135	0 2270				·			0 0	.OSS GAIN 0 0 0 0	0	LOSS 0 0	0								0 4	.OSS G 0 81	0
NORTH EAST SOUTH	20.3 20.3 20.3 20.3	15.0 40.5 23.9							56 0	0 1135 0	0 2270 0							0 0 0	OSS GAIN 0 0 0 0 0 0	0	LOSS 0 0 0	0 0 0								0 4 0 0	.OSS G 0 81 0 0	0 162 0 0
NORTH EAST SOUTH WEST	20.3 20.3 20.3 20.3 20.3 35.5	15.0 40.5 23.9 40.6							56 0 0	LOSS 0 1135 0	0 2270 0 0							0 0 0 0	OSS GAIN 0 0 0 0 0 0	0 0 11	0 0 0 0 223 0	0 0 0 446 0								0 4 0 0	.OSS G 0 81 0 0	0 162 0 0
NORTH EAST SOUTH WEST SKYLT.	20.3 20.3 20.3 20.3 20.3 35.5	15.0 40.5 23.9 40.6 99.8							56 0 0	LOSS 0 1135 0 0	0 2270 0 0 0							0 0 0 0 0	OSS GAIN 0 0 0 0 0 0 0 0 0 0	0 0 11 0	0 0 0 0 223	0 0 0 446 0 136								0 4 0 0 0 0	.OSS G 0 81 0 0 0 401	0 162 0 0 0 51
NORTH EAST SOUTH WEST SKYLT. DOORS	20.3 20.3 20.3 20.3 20.3 35.5 19.1 4.3	15.0 40.5 23.9 40.6 99.8 2.4							56 0 0 0 10	LOSS 0 1135 0 0 0	0 2270 0 0 0 0							0 0 0 0 0	OSS GAIN 0 0 0 0 0 0 0 0 0 0 0 0	0 0 11 0 56	0 0 0 223 0	0 0 0 446 0								0 4 0 0 0 0 21	.OSS G 0 81 0 0 0 401	0 162 0 0 0 51
NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL	20.3 20.3 20.3 20.3 35.5 19.1 4.3 3.4	15.0 40.5 23.9 40.6 99.8 2.4 0.5							56 0 0 0 10 414	LOSS 0 1135 0 0 0 191 1760	0 2270 0 0 0 24 224							0 0 0 0 0 0 0	OSS GAIN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 638 81	0 0 11 0 56 233	0 0 0 223 0 1070 991	0 0 446 0 136 126								0 4 0 0 0 21 0 273	OSS G 0 81 0 0 0 401 0	0 162 0 0 0 51 0
NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL	20.3 20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2	15.0 40.5 23.9 40.6 99.8 2.4 0.5							56 0 0 0 10 414 0	LOSS 0 1135 0 0 0 191 1760	0 2270 0 0 0 24 224							0 0 0 0 0 0 0 150	OSS GAIN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 638 81 0 0	0 0 11 0 56 233	LOSS 0 0 0 223 0 1070 991 0	0 0 446 0 136 126 0								0 4 0 0 0 21 0 273 0	OSS G 0 81 0 0 0 401 0 936	0 162 0 0 0 51 0
NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BMT WALL ABOVE OR EXPOSED CLG	20.3 20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6	15.0 40.5 23.9 40.6 99.8 2.4 0.5 0.4							56 0 0 0 10 414 0	LOSS 0 1135 0 0 191 1760 0	0 2270 0 0 0 24 224 0							0 0 0 0 0 0 0 150	OSS GAIN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 638 81 0 0	0 0 11 0 56 233 0	LOSS 0 0 0 223 0 1070 991 0	0 0 446 0 136 126								0 4 0 0 0 21 0 273 0	OSS G 0 81 0 0 0 401 0 936	0 162 0 0 51 0 119 0
NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BSMT WALL ABOVE GR EXPOSED CLG NO ATTIC EXPOSED CLG	20.3 20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6	15.0 40.5 23.9 40.6 99.8 2.4 0.5 0.4 0.5							56 0 0 0 10 414 0 0	LOSS 0 1135 0 0 191 1760 0	0 2270 0 0 0 24 224 0							0 0 0 0 0 0 0 0 150 0	OSS GAIN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 11 0 56 233 0 0	LOSS 0 0 223 0 1070 991 0 0	0 0 446 0 136 126 0								0 4 0 0 0 21 0 273 0	OSS G 0 81 0 0 0 401 0 936 0	0 162 0 0 0 51 0
NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BSMT WALL ABOVE OR EXPOSED IS NO ATTIC EXPOSED CLG EXPOSED FLOOR	20.3 20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6 2.4	15.0 40.5 23.9 40.6 99.8 2.4 0.5 0.4 0.5							56 0 0 0 10 414 0 0	LOSS 0 1135 0 0 191 1760 0 0 0	0 2270 0 0 0 24 224 0							0 0 0 0 0 0 0 0 150 0	OSS GAIN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 11 0 56 233 0 0	LOSS 0 0 0 223 0 1070 991 0 0 0	0 0 446 0 136 126 0								0 4 0 0 0 21 0 273 0	OSS G 0 81 0 0 0 401 0 936	0 162 0 0 51 0 119 0
NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED SIMT WALL ABOVE OR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS	20.3 20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6 2.4	15.0 40.5 23.9 40.6 99.8 2.4 0.5 0.4 0.5							56 0 0 0 10 414 0 0	LOSS 0 1135 0 0 0 191 1760 0 0 0	0 2270 0 0 0 24 224 0							0 0 0 0 0 0 0 0 150 0 0	OSS GAIN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 11 0 56 233 0 0	LOSS 0 0 223 0 1070 991 0 0 0 0	0 0 446 0 136 126 0								0 4 0 0 0 21 0 273 0 0	OSS G 0 81 0 0 0 401 0 936 0 0	0 162 0 0 51 0 119
NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BSMT WALL ABOVE OR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS	20.3 20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6 2.4	15.0 40.5 23.9 40.6 99.8 2.4 0.5 0.4 0.5							56 0 0 0 10 414 0 0	LOSS 0 1135 0 0 191 1760 0 0 0 0	0 2270 0 0 0 24 224 0 0							0 0 0 0 0 0 0 0 150 0 0	OSS GAIN 0	0 0 11 0 56 233 0 0	LOSS 0 0 0 223 0 1070 991 0 0 0	0 0 446 0 136 126 0 0								0 4 0 0 0 21 0 273 0 0	OSS G 0 81 0 0 0 401 0 936 0 0 0 2758	0 162 0 0 51 0 119 0
NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BASE WALLABOVE OR EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS	20.3 20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6 2.4	15.0 40.5 23.9 40.6 99.8 2.4 0.5 0.4 0.5							56 0 0 10 414 0 0	LOSS 0 1135 0 0 191 1760 0 0 0 0 3086	0 2270 0 0 0 24 224 0							0 0 0 0 0 0 0 0 150 0 0	OSS GAIN 0 0 0	0 0 11 0 56 233 0 0 0	LOSS 0 0 0 223 0 1070 991 0 0 0 0 2283	0 0 446 0 136 126 0								0 4 0 0 0 21 0 273 0	OSS G 0 81 0 0 401 0 936 0 0 2758	0 162 0 0 51 0 119 0
NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED SIMT WALL ABOVE OR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER	20.3 20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6 2.4	15.0 40.5 23.9 40.6 99.8 2.4 0.5 0.4 0.5							56 0 0 10 414 0 0	LOSS 0 1135 0 0 191 1760 0 0 0 0 3086	0 2270 0 0 0 24 224 0 0							0 0 0 0 0 0 0 0 150 0 0	OSS GAIN 0	0 0 11 0 56 233 0 0 0	LOSS 0 0 0 223 0 1070 991 0 0 0 0 2283 0 0.53	0 0 446 0 136 126 0 0								0 4 0 0 0 21 0 273 0 0	OSS G 0 81 0 0 0 401 0 936 0 0 0 2758	0 162 0 0 51 0 119 0
NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED UGE EXPOSED CLG NO ATTIC EXPOSED CLG NO ATTIC EXPOSED CLOR BASEMENT/CRAWL HEAT LOSS SUBTOTAL HT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS	20.3 20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6 2.4	15.0 40.5 23.9 40.6 99.8 2.4 0.5 0.4 0.5							56 0 0 10 414 0 0	LOSS 0 1135 0 0 191 1760 0 0 0 0 3086	0 2270 0 0 0 24 224 0 0 0							0 0 0 0 0 0 0 0 150 0 0	OSS GAIN 0	0 0 11 0 56 233 0 0 0	LOSS 0 0 0 223 0 1070 991 0 0 0 0 2283	0 0 446 0 136 126 0 0 0								0 4 0 0 0 21 0 273 0 0	OSS G 0 81 0 0 0 401 0 936 0 0 0 2758	0 162 0 0 0 0 51 0 1119 0 0
NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BAST WALL ABOVE GR EXPOSED CLG EXPOSED FLOOR BASEMENTICRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS	20.3 20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6 2.4	15.0 40.5 23.9 40.6 99.8 2.4 0.5 0.4 0.5							56 0 0 10 414 0 0	LOSS 0 1135 0 0 191 1760 0 0 0 0 3086	0 2270 0 0 0 24 224 0 0							0 0 0 0 0 0 0 0 150 0 0 0	OSS GAIN 0	0 0 11 0 56 233 0 0 0	LOSS 0 0 0 223 0 1070 991 0 0 0 0 2283 0.53 1211	0 0 446 0 136 126 0 0								0 4 0 0 0 21 0 273 0 0	OSS G 0 81 0 0 0 401 0 936 0 0 0 2758 4176	0 162 0 0 51 0 119 0
NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED BSMT WALL ABOVE GR EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT LOSS SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT GSIN AIR CHANGE HEAT GAIN DUCT LOSS	20.3 20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6 2.4	15.0 40.5 23.9 40.6 99.8 2.4 0.5 0.4 0.5							56 0 0 10 414 0 0	LOSS 0 1135 0 0 191 1760 0 0 0 0 3086	0 2270 0 0 0 24 224 0 0 0							0 0 0 0 0 0 0 0 150 0 0 0	OSS GAIN 0	0 0 11 0 56 233 0 0 0	LOSS 0 0 0 223 0 1070 991 0 0 0 0 2283 0 0.53	0 0 446 0 136 126 0 0 0								0 4 0 0 0 21 0 273 0 0	OSS G 0 81 0 0 0 401 0 936 0 0 0 2758 4176	0 1162 0 0 0 51 0 1119 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SUBTOTAL HT LOSS SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT GAIN DUCT GAIN	20.3 20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6 2.4	15.0 40.5 23.9 40.6 99.8 2.4 0.5 0.4 0.5							56 0 0 10 414 0 0 0	LOSS 0 1135 0 0 191 1760 0 0 0 0 3086	0 2270 0 0 24 224 0 0 0							0 0 0 0 0 0 0 0 150 0 0 0	OSS GAIN 0	0 0 111 0 56 233 0 0 0	LOSS 0 0 0 223 0 1070 991 0 0 0 0 2283 0.53 1211	0 0 446 0 136 126 0 0 0								0 4 0 0 0 21 0 273 0 0 0	OSS G 0 81 0 0 0 401 0 936 0 0 2758 1176 3 11.27	0 1162 0 0 0 51 0 1119 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED BASE EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT COSS AIR CHANGE HEAT GAIN DUCT LOSS	20.3 20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6 2.4	15.0 40.5 23.9 40.6 99.8 2.4 0.5 0.4 0.5							56 0 0 10 414 0 0	LOSS 0 1135 0 0 191 1760 0 0 0 0 3086	0 2270 0 0 24 224 0 0 0 0							0 0 0 0 0 0 0 0 150 0 0 0	OSS GAIN 0	0 0 11 0 56 233 0 0 0	LOSS 0 0 0 223 0 1070 991 0 0 0 0 2283 0.53 1211	0 0 0 446 0 136 126 0 0 0 0								0 4 0 0 0 21 0 273 0 0	OSS G 0 81 0 0 0 401 0 936 0 0 0 2758 4176 31.27	0 162 0 0 0 51 0 0 0 1119 0 0 0 0 0 0 0 0 0 0 0 0 0 0
NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BASH WALL ABOVE OR EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS OUCT GAIN HEAT GAIN PEOPLE HEAT GAIN APPLIANCES/LIGHTS	20.3 20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6 2.4	15.0 40.5 23.9 40.6 99.8 2.4 0.5 0.4 0.5							56 0 0 10 414 0 0 0	LOSS 0 1135 0 0 0 0 191 1760 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 2270 0 0 24 224 0 0 0							0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	OSS GAIN 0	0 0 111 0 56 233 0 0 0	LOSS 0 0 0 2233 0 1070 991 0 0 0 0 2283 1211 0	0 0 446 0 136 126 0 0 0								0 4 0 0 0 0 21 0 0 273 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	OSS G 0 81 0 0 0 0 401 0 0 9936 0 0 0 0 117758	0 1162 0 0 0 51 0 1119 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BASIT WALL ABOVE OR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT LOSS SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT GAIN DUCT LOSS DUCT GAIN HEAT GAIN PEOPLE	20.3 20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6 2.4	15.0 40.5 23.9 40.6 99.8 2.4 0.5 0.4 0.5							56 0 0 10 414 0 0 0	LOSS 0 1135 0 0 191 1760 0 0 0 0 3086	0 2270 0 0 24 224 0 0 0 0							0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	OSS GAIN 0	0 0 111 0 56 233 0 0 0	LOSS 0 0 0 223 0 1070 991 0 0 0 0 2283 0.53 1211	0 0 0 446 0 136 126 0 0 0 0								0 4 0 0 0 0 21 0 0 273 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	OSS G 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 162 0 0 0 51 0 0 0 1119 0 0 0 0 0 0 0 0 0 0 0 0 0 0

TOTAL HEAT GAIN BTU/H:

17576

TONS: 1.46

LOSS DUE TO VENTILATION LOAD BTU/H: 1243

STRUCTURAL HEAT LOSS: 26554

TOTAL COMBINED HEAT LOSS BTU/H: 27798

Mahad Offmhe.



SITE NAME: BARLASSINA

В	UILDER:	GREEN	PARK HO	DMES				TYPE: CHERRY	1	DATE:	Aug-22			GFA: 1946	LO#	98649				
								furnace pressure	0.6											
HEATING CFM	614			DLING CFM	•			furnace filter	0.05					#0	SOODM	IAN		AFUE = 9	96 %	
TOTAL HEAT LOSS	,_,			HEAT GAIN				a/c coil pressure	0.2				(GMEC960302BNA	30		INPUT	(BTU/H) = ;		
AIR FLOW RATE CFM	23.12	P	AIR FLOW I	RATE CFM	35.25		a	vailable pressure						FAN SPEED				(BTU/H) = :		
DUBLICOURS I			·					for s/a & r/a	0.35					LOW					,	
RUN COUNT	4th	3rd	2nd	1st	Bas									MEDLOW			DES	GN CFM =	614	
S/A	0	0	9	5	3			enum pressure s/a	0.18	r/a pressure	0.17			MEDIUM	614			СFM @ .6		
R/A	0	0	3	1 1	1			s/a dif press. loss	0.02	r/a grille press. Loss	0.02			MEDIUM HIGH				_		
All S/A diffusers 4"x10" unle				out.			min adjı	usted pressure s/a	0.16	adjusted pressure r/a	0.15			HIGH	895		TEMPERAT	URE RISE	43	۰F
All S/A runs 5"Ø unless not		vise on la	ayout.															-		•
RUN #		2	3	4	5	6	7	8	10		14	15	16	18	19		21	22		24
RM LOSS MBH.	MBR	ENS	WIC	BED-2	BED-3	BATH	BATH	FLEX	MBR		K/L/D	K/L/D	K/L/D	PWD	FOY		BAS	BAS		BAS
CFM PER RUN HEAT	1.27	1.56	0.20	1.23	1.59	0.21	0.21	0.33	1.27		1.57	1.57	1.57	0.98	3.49		3.16	3.16		3.16
RM GAIN MBH.	29	36	5	28	37	5	5	8	29		36	36	36	23	81		73	73		73
CFM PER RUN COOLING	1.79	1.54 54	0.06	2.26	2.41	0.06	0.06	0.90	1.79		1.42	1.42	1.42	0.11	0.98		0.41	0.41		0.41
ADJUSTED PRESSURE	63 0.17		2	80	85	2	2	32	63		50	50	50	4	35		14	14		14
ACTUAL DUCT LGH.	0.17 51	0.17	0.17	0.17	0.16	0.17	0.17	0.17	0.17		0.17	0.17	0.17	0.17	0.16		0.17	0.17		0.17
EOUIVALENT LENGTH		42	18	54	45	26	24	45	55		45	40	12	6	28		44	31		22
TOTAL EFFECTIVE LENGTH		160	170	160	130	150	170	170	200		120	120	90	90	120		120	130		140
ADJUSTED PRESSURE		202	188	214	175	176	194	215	255		165	160	102	96	148		164	161		162
ROUND DUCT SIZE		0.09	0.09	0.08	0.09	0.1	0.09	0.08	0.07		0.1	0.11	0.17	0.18	0.11		0.1	0.11		0.11
HEATING VELOCITY (ft/min)		2004	4 57	6	400	4	4	5	6		5	4	5	4	5		5	5		5
COOLING VELOCITY (ft/min)		264 396	57 23	143	189	57	57	59	148		264	413	264	264	595		536	536		536
OUTLET GRILL SIZE				408	433	23	23	235	321		367	574	367	46	257		103	103		103
TRUNK	47.10	3X10 C	3X10 B	4X10	4X10	3X10	3X10	3X10	4X10		3X10	3X10	3X10	3X10	3X10		3X10	3X10		3X10
I RONK	<u> </u>	<u> </u>		A	A	В	B	В	С		A	A	В	C	C		A	Α		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

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SUPPLY AIR TRUNK SIZE																	RETURN A	ID TOUNI	K SIZE					
	TRUNK	STATIC	ROUND	RECT			VELOCITY			TRUNK	STATIC	ROUND	RECT			VELOCITY	TAL TOTAL	TRUNK	STATIC	ROUND	RECT			
	CFM	PRESS.	DUCT	DUCT			(ft/min)			CFM	PRESS.	DUCT	DUCT			(ft/min)		CFM	PRESS.					VELOCI
TRUNK /	283	0.08	8.7	10	х	8	509		TRUNK G		0.00	0	ο.	v	8	(1071011)	TRUNK O	0		DUCT	DUCT		_	(ft/min)
TRUNK I	3 342	80.0	9.4	14	x	8	440		TRUNK H	Õ	0.00	ñ	n	X	0	0	TRUNK P	Ü	0.07	Ü	0	X	8	0
TRUNK (271	0.07	8.9	10	x	8	488		TRUNK I	ñ	0.00	n	0		٥	0	1	Ü	0.07	Ü	U	X	8	0
TRUNK I	0 0	0.00	0	n	Y Y	8	0		TRUNK J	ñ	0.00	0	0	X	0	Ü	TRUNKO	Ü	0.07	U	0	Х	8	0
TRUNK I	E 0	0.00	ñ	ñ	Ŷ	8	ñ		TRUNK K	0	0.00	0	0	X	0	Ū	TRUNK R	0	0.07	0	0	X	8	0
TRUNK I	-	0.00	ñ	ñ	Ŷ	8	n		TRUNK L	0	0.00	0	0	X	8	Ü	TRUNK S	U	0.07	0	0	X	8	0
		0.00			^				TRUIN E	<u> </u>	0.00	<u> </u>	<u> </u>	X	8	U	TRUNK T	0	0.07	0	0	Х	8	0
																	TRUNK U	0	0.07	0	0	X	8	0
RETURN AIR #	1		3	1	5												TRUNK V	U	0.07	0	0	Х	8	0
	'n	n	ñ	<u> </u>	0	0	0	0	0		•	^	•	•	_	BR	TRUNK W	.0	0.07	0	0	X	8	0
AIR VOLUME	85	•	85	85	270	0	0	0	0	0	Ŭ	U	U	0	0		TRUNK X	614	0.07	12.1	18	X	8	614
PLENUM PRESSURE	0.15	0.15	0.15	0.15		0.45	-	0.45	0.45	0.45	0	0	0	0	0	89	TRUNK Y	85	0.07	5.8	8	X	8	191
ACTUAL DUCT LGH.	55	0.13			0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	TRUNK Z	0	0.07	0	0	X	8	0
EQUIVALENT LENGTH	145		28 175	27	14	1	1	1	1	1	1	1	1	1	1	14	DROP	614	0.07	12.1	24	Х	10	368
TOTAL EFFECTIVE LH		0		140	180	Ü	Ü	Ü	Ų	0	0	0	0	0	0	180								
ADJUSTED PRESSURE	200	44.00	203	167	194	1		. 1	1	1	1	1	1	1	1	194								
	0.07	14.80	0.07	0.09	0.08	14.80	14.80	14.80	14.80	14.80	14.80	14.80	14.80	14.80	14.80	0.08								
ROUND DUCT SIZE	5.8	Ü	5.8	5.4	8.6	0	0	0	0	.0	0	0	0	0	0	5.7								
NLET GRILL SIZE	8	0	8	8	8	0	0	0	0	0	0	0	0	0	0	8								
	X	Х	X	X	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	х								
NLET GRILL SIZE	14	0	14	14	30	0	0	0	0	0	0	0	0	0	0	14								



375 Finley Ave. Suite 202 Ajax, ON L15 2E2 Tel: 905.619.2300 Fax: 905.619.2375 Web: www.hvacdesigns.ca E-mail: info@hvacdesigns.ca

TYPE: SITE NAME:

CHERRY 1

BARLASSINA

LO# 98649

RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

COMBUSTION APPLIANCES	9.32.3.1(1)	SUPPLEMENTAL VENTILATION CAPACITY 9.32.3.5
a)Direct vent (sealed combustion) only		Total Ventilation Capacity 148.4 cfm
b) Positive venting induced draft (except fireplaces)		Less Principal Ventil. Capacity <u>63.6</u> cfm
c) Natural draft, B-vent or induced draft gas fireplace		Required Supplemental Capacity 84.8 cfm
d) Solid Fuel (including fireplaces)		PRINCIPAL EXHAUST FAN CAPACITY
e) No Combustion Appliances		
HEATING SYSTEM		63.6 cfm
✓ Forced Air Non Forced Air		PRINCIPAL EXHAUST HEAT LOSS CALCULATION CFM
Electric Space Heat		63.6 CFM X 72 F X 1.08 X 0.25
		SUPPLEMENTAL FANS BY INSTALLING CONTRACTOR
HOUSE TYPE	0.22.4(2)	Location Model cfm HVI Sones
NOOSE ITE	9.32.1(2)	ENS BY INSTALLING CONTRACTOR 50 ✓ 3.5 BATH BY INSTALLING CONTRACTOR 50 ✓ 3.5
Type a) or b) appliance only, no solid fuel		LAUN BY INSTALLING CONTRACTOR 50 ✓ 3,5
		PWD BY INSTALLING CONTRACTOR 50 ✓ 3.5
II Type I except with solid fuel (including fireplaces)		HEAT RECOVERY VENTILATOR 9.32.3.11.
III Any Type c) appliance		Model: VANEE V150H
IV Type I, or II with electric space heat		
Other: Type I, II or IV no forced air		
		LOCATION OF INSTALLATION
SYSTEM DESIGN OPTIONS C	D.N.H.W.P.	LOCATION OF INSTALLATION
1 Exhaust only/Forced Air System		Lot: Concession
		Township Plan:
2 HRV with Ducting/Forced Air System		Address
HRV Simplified/connected to forced air system		Roll # Building Permit #
4 HRV with Ducting/non forced air system		BUILDER: GREENPARK HOMES
Part 6 Design		Name:
TOTAL VENTILATION CAPACITY	9.32.3.3(1)	Address:
Basement + Master Bedroom 2 @ 21.2 cfm 42.4	cfm	City:
Other Bedrooms 2 @ 10.6 cfm 21.2	cfm	Telephone #: Fax #:
Kitchen & Bathrooms <u>4</u> @ 10.6 cfm <u>42.4</u>	cfm	INSTALLING CONTRACTOR
Other Rooms <u>4</u> @ 10.6 cfm <u>42.4</u>	cfm	Name:
Table 9.32.3.A. TOTAL 148.4	cfm	Address:
		City:
PRINCIPAL VENTILATION CAPACITY REQUIRED 9	0.32.3.4.(1)	
1 Bedroom 31.8	cfm	Telephone #: Fax #:
2 Bedroom 47.7	cfm	DESIGNER CERTIFICATION I hereby certify that this ventilation system has been designed in accordance with the Ontario Building Code.
3 Bedroom 63.6	cfm	Name: HVAC Designs Ltd.
4 Bedroom 79.5	cfm	Signature: Mahad Ofmale.
5 Bedroom 95.4	cfm	HRAI # 001820
TOTAL 63.6 cfm		Date: August-22
I REVIEW AND TAKE RESPONIBILITY FOR THE DESIGN WORK AND AM QUALIF INDIVIDUAL BCIN: 19669 MICHAEL O'ROL		PROPRIATE CATEGORY AS AN "OTHER DESIGNER" UNDER DIVISION C, 3.2.5 OF THE BUILDING CODE.



: 2022-08-22
: 2022-08-22
-
T 47.85
ΔT °F 72
9
] 3
105 W
358 Btu/h
158 Btu/h
Rourke
9
11-101
al Offmhe.
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37S Finley Ave. Suite 202 Ajax, ON L1S 2E2 Tel: 90S.619.2300 Fax: 90S.619.237S

HEAT LOSS AND GAIN SUMMARY SHEET

MODEL:	CHERRY 1		BUILDER: GREENPARK HOMES	
SFQT:	1946	LO# 98649	SITE: BARLASSINA	
DESIGN A	ASSUMPTIONS			
	R DESIGN TEMP. DESIGN TEMP.	°F 0 72	COOLING OUTDOOR DESIGN TEMP. INDOOR DESIGN TEMP. (MAX 75°F) WINDOW SHGC	°F 84 7S 0.S0
ATTACHN	1ENT:	ATTACHED	# OF STORIES (+BASEMENT):	3
FRONT FA	ACES:	EAST	ASSUMED (Y/N):	Υ
AIR CHAN	IGES PER HOUR:	3.S7	ASSUMED (Y/N):	Υ
AIR TIGHT	rness category:	AVERAGE	ASSUMED (Y/N):	Υ
WIND EX	POSURE:	SHELTERED	ASSUMED (Y/N):	Υ
HOUSE V	OLUME (ft³):	2S674.0	ASSUMED (Y/N):	Υ
INTERNAL	SHADING:	BLINDS/CURTAINS	ASSUMED OCCUPANTS:	4
INTERIOR	LIGHTING LOAD (Btu/	h/ft²): 1.27	DC BRUSHLESS MOTOR (Y/N):	Υ
FOUNDAT	TION CONFIGURATION	BCIN_1	DEPTH BELOW GRADE:	6.0 ft
LENGTH:	S7.0 ft	WIDTH: 17.0 ft	EXPOSED PERIMETER:	91.0 ft

2012 OBC - COMPLIANCE PACKAGE		
Component	1	e Package
Component		A1
Cailing with Attic Space Minimum BSI (D) Value	Nominal	Min. Eff.
Ceiling with Attic Space Minimum RSI (R)-Value	60	\$9.22
Ceiling Without Attic Space Minimum RSI (R)-Value	31	27.6S
Exposed Floor Minimum RSI (R)-Value	31	29.80
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	96%	-
HRV/ERV 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

W	eather Sta	tion Description
Province:	Ontario	
Region:	Cambridg	ge
	Site D	escription
Soil Conductivity:	Normal c	onductivity: dry sand, loam, clay
Water Table:	Normal (7-10 m, 23-33 ft)
	Foundatio	n Dimensions
Floor Length (m):	17.4	
Floor Width (m):	5.2	
Exposed Perimeter (m):	27.7	
Wall Height (m):	2.7	
Depth Below Grade (m):	1.83	Insulation Configuration
Window Area (m²):	0.4	en en en en en en en en en en en en en e
Door Area (m²):	2.0	
	Radia	ant Slab
Heated Fraction of the Slab:	0	
Fluid Temperature (°C):	33	
	Design	n Months
Heating Month	1	
	Founda	tion Loads
Heating Load (Watts):		808

TYPE: CHERRY 1 **LO#** 98649







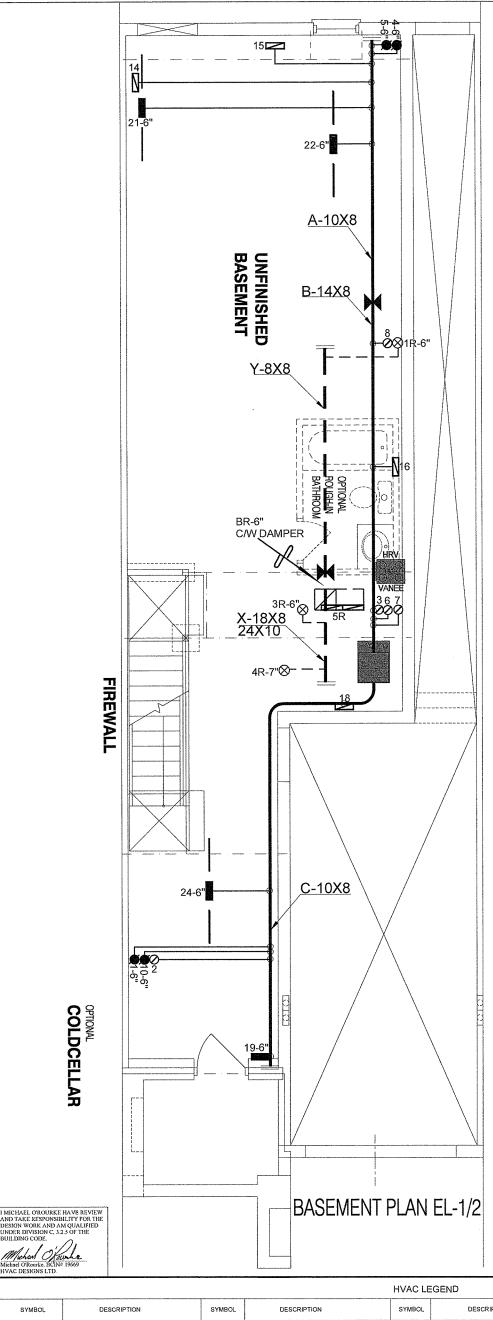
Air Infiltration Residential Load Calculator

Supplemental tool for CAN/CSA-F280

Weather St	tation Description
Province:	Ontario
Region:	Cambridge
Weather Station Location:	Open flat terrain, grass
Anemometer height (m):	10
Loca	al Shielding
Building Site:	Suburban, forest
Walls:	Heavy
Flue:	Heavy
Highest Ceiling Height (m):	6.71
Building	Configuration
Type:	Semi
Number of Stories:	Two
Foundation:	Full
House Volume (m³):	727.0
Air Leaka	age/Ventilation
Air Tightness Type:	Present (1961-) (3.57 ACH)
Custom BDT Data:	ELA @ 10 Pa. 969.1 cm ²
	3.57 ACH @ 50 Pa
Mechanical Ventilation (L/s):	Total Supply Total Exhaust
	30.0 30.0
FI	lue Size
Flue #:	#1 #2 #3 #4
Diameter (mm):	0 0 0 0
Natural Ir	nfiltration Rates
Heating Air Leakage Rate (ACH/	(H): 0.319
Cooling Air Leakage Rate (ACH/	H): 0.085

TYPE: CHERRY 1 **LO#** 98649





CSA-F280-12 PACKAGE A1

		3.								
SYMBOL.	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	2.		
	SUPPLY AIR GRILLE	estel .	6" SUPPLY AIR BOOT ABOVE		14"x8" RETURN AIR GRILLE		RETURN AIR STACK ABOVE	1.		
	SUPPLY AIR GRILLE 6" BOOT	0	SUPPLY AIR STACK FROM 2nd FLOOR		30"x8" RETURN AIR GRILLE	5	RETURN AIR STACK 2nd FLOOR	No.	Description	Date
	SUPPLY AIR BOOT ABOVE	ø	6" SUPPLY AIR STACK 2nd FLOOR		FRA- FLOOR RETURN AIR GRILLE	X	REDUCER		REVISIONS	

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Client

GREENPARK HOMES

Project Nam

BARLASSINA CAMBRIDGE, ONTARIO

Block 120 Units 19 to 24

CHERRY 1 1946 sqft

HVA DESIGNS 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 :		BTU/H	# OF RUNS	S/A	R/A	FANS	She
	UNIT	DATA		3RD FLOOR				
	MAKE GOOD!	MAN		2ND FLOOR	9	3	3	
	MODEL GMEC960	302BN	A	1ST FLOOR	5	1	2	
	INPUT 30	i	MBTU/H	BASEMENT	3	1	0	Date
	оитрит 29		мвти/н	ALL S/A DIFFUS				Scal
е	COOLING 1.5	5	TONS	ON LAYOUT. A	LL S/A	RUN	S 5"Ø	

735

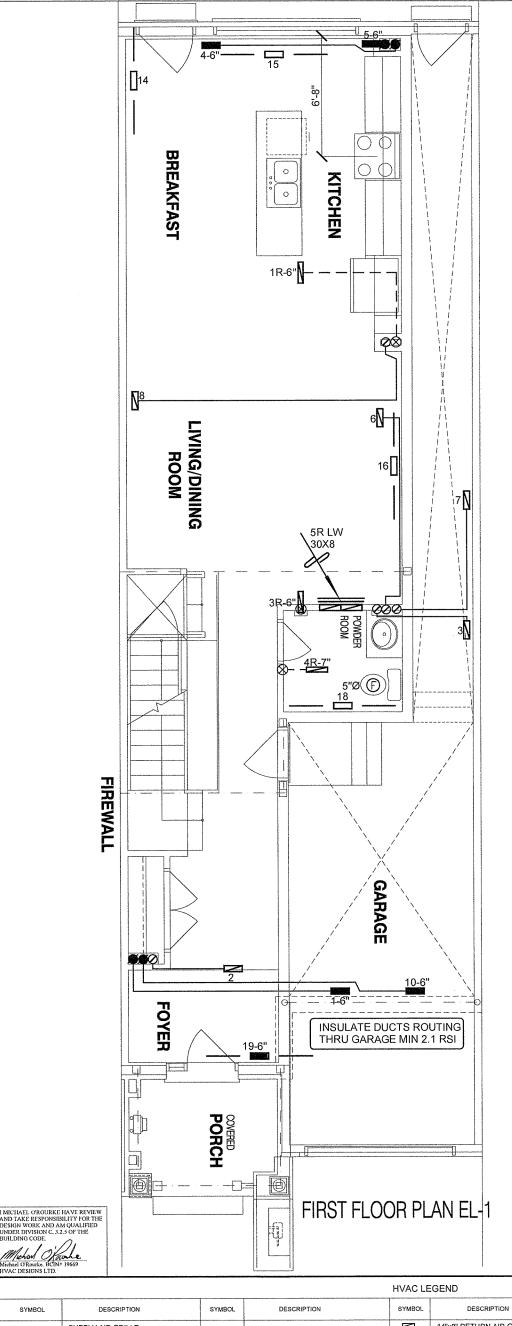
ON LAYOUT. UNDERCUT

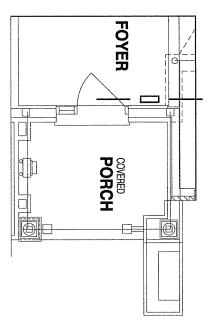
DOORS 1" min. FOR R/A

BASEMENT
HEATING
LAYOUT

ate AUG/2022
cale 3/16" = 1'-0"
BCIN# 19669

LO# 98649





FIRST FLOOR PLAN EL-2

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CSA-F280-12 PACKAGE A1

		3.								
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	2.		
	SUPPLY AIR GRILLE		6" SUPPLY AIR BOOT ABOVE		14"x8" RETURN AIR GRILLE	=	RETURN AIR STACK ABOVE	1.		
NRI	SUPPLY AIR GRILLE 6" BOOT	0	SUPPLY AIR STACK FROM 2nd FLOOR		30"x8" RETURN AIR GRILLE	1 221	RETURN AIR STACK 2nd FLOOR	No.	Description	Date
	SUPPLY AIR BOOT ABOVE	Ø	6" SUPPLY AIR STACK 2nd FLOOR		FRA- FLOOR RETURN AIR GRILLE	X	REDUCER		REVISIONS	

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GREENPARK HOMES

Project Name

BARLASSINA CAMBRIDGE, ONTARIO

Block 120 Units 19 to 24

DESIGNS LTD.

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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.

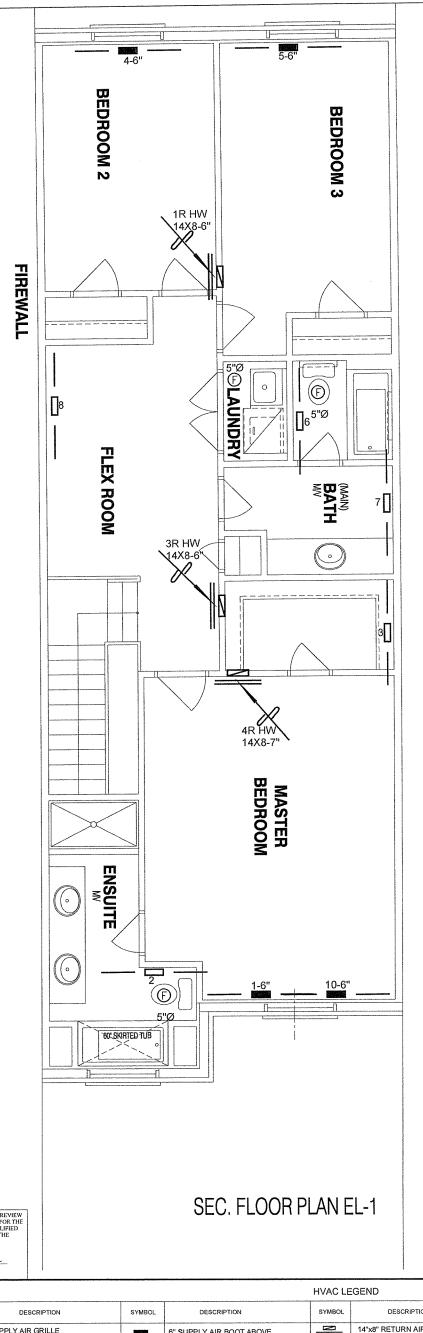
FIRST FLOOR **HEATING** LAYOUT

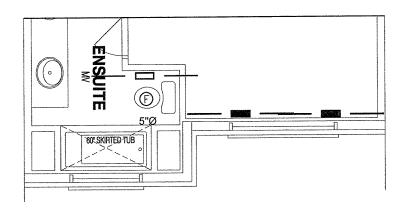
AUG/2022 3/16" = 1'-0" Scale

BCIN# 19669

98649 LO#

1946 sqft CHERRY 1





SEC. FLOOR PLAN EL-2

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CSA-F280-12

HVAC LEGEND								3.		
SYMBOL.	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	2.		
	SUPPLY AIR GRILLE		6" SUPPLY AIR BOOT ABOVE		14"x8" RETURN AIR GRILLE		RETURN AIR STACK ABOVE	1.		
	SUPPLY AIR GRILLE 6" BOOT	0	SUPPLY AIR STACK FROM 2nd FLOOR		30"x8" RETURN AIR GRILLE		RETURN AIR STACK 2nd FLOOR	No.	Description	Date
a	SUPPLY AIR BOOT ABOVE	.6	6" SUPPLY AIR STACK 2nd FLOOR		FRA- FLOOR RETURN AIR GRILLE	X	REDUCER		REVISIONS	

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GREENPARK HOMES

Project Name

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CHERRY 1

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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 1946 sqft adequately insulated and be gas-proofed.

SECOND FLOOR **HEATING** LAYOUT

AUG/2022 3/16" = 1'-0"

BCIN# 19669

98649 LO#