

NOT THE GRANTING OF A PERMIT NOR REVIEWING OF SPECS & DRAWINGS NOR INSPECTIONS MADE DURING INSTALLATION BY THE OFFICIAL HAVING JURISDICTION SHALL RELIEVE THE OWNER FROM REQUIREMENTS OF THE ONTARIO BUILDING CODE AND ANY OTHER REFERENCED REQUIREMENTS.

Block 119 Units 25 to 30

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BULCHE OFFENOMEN CANSES	SITE NAME:	: BARLA	SSINA		CO	DE AI	ND A	NY O	IHEK	REFER	REINCE	D KE	JUIKE	IVIEIVI	3.				DATE	: Aug-2	2			WHAT	ER NATURAL AIR CHANGE RAT	= 0.240							
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AIR CHANGE HEAT LOSS	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSEO WALL NET EXPOSEO BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT LOSS	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 40.5 99.8 2.4 0.5 0.4 0.5	0 30 15 0 0 325 0 0	37 10 370 LOSS 0 608 304 0 0 1382 0 0 0	GAIN 0 1216 358 0 0 1776 0 0 0	0 33 0 0 0 237 0 0	27 10 270 LOSS 0 0 669 0 0 1008 0 0 0	GAIN 0 0 788 0 0 0 128 0 0 0 0	0 0 30 82 0 8 300 0 0	42 10 420 LOSS 0 608 1662 0 153 1275 0 0 0 0 0 3699	0 0 717 3325 0 19 162 0 0			3168	0 0 0 0 0 42	LAUN 0 9 0 LOSS 0 0 0 0 0 0 0 102 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 0 0 0 0 0 0 0 22 0 0 13	0 15 0 0 0 45 0	PWO 6 10 60 LOSS 0 0 304 0 0 191 0 0 0 0 0 0	GAIN 0 0 3558 0 0 0 24 0 0 0 0	0 10 0 0 48 222 0 0	FOY 28 10 280 LOSS 0 0 203 0 0 917 944 0 0 0 0 0 0	GAIN 0 0 239 0 0 1117 120 0 0					15		0 4 4 4 0 20 0 396 0 0	132 9 792 LOSS 6 81 81 81 0 382 0 1358 0 0 4268	0 162 96 162 0 49 0 173 0
AIR CHANGE HEAT GAIN OUCT LOSS O	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST! SKYLT. DOORS NET EXPOSEO WALL NET EXPOSEO CLG NO ATTIC EXPOSEO CLG EXPOSEO FLOOR BASEMENTICRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT LOSS SUBTOTAL HT GAIN	20.3 20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6	GAIN 15.0 40.5 23.9 40.5 99.8 2.4 0.5 0.4 0.5 1.1 0.3	0 30 15 0 0 325 0 0	37 10 370 LOSS 0 608 304 0 0 0 1382 0 0 0 0 0 2294	GAIN 0 1216 358 0 0 1776 0 0 0	0 33 0 0 0 237 0 0 0	277 10 270 LOSS 0 0 669 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 788 0 0 0 128 0 0 0 0	0 0 30 82 0 8 300 0 0	42 10 420 LOSS 0 608 1662 0 153 1275 0 0 0 0 0 3699	0 0 717 3325 0 19 162 0 0				0 0 0 0 0 42 0 42	LAUN 0 9 0 LOSS 0 0 0 0 0 0 0 0 102 0 0 0 153	GAIN 0 0 0 0 0 0 0 0 0 22 0 0 13	0 15 0 0 0 45 0 0	PWO 6 10 CO	GAIN 0 0 3558 0 0 0 24 0 0 0 0	0 10 0 48 222 0 0 0	FOY 28 10 280 LOSS 0 0 917 944 0 0 0 0 0 2063	GAIN 0 0 239 0 0 1117 120 0 0					15		0 4 4 4 0 20 0 396 0 0	132 9 792 LOSS 6 0 81 81 81 0 382 0 1358 0 0 4268	0 162 96 162 0 49 0 173 0 0
OUCT LOSS DUCT GAIN DUCT GAIN O 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSEO WALL NET EXPOSEO WALL NET EXPOSEO CLG NO ATTIC EXPOSEO CLG EXPOSEO CLG NO ATTIC EXPOSEO CLG SASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUB TOTAL 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	GAIN 15.0 40.5 23.9 40.5 99.8 2.4 0.5 0.4 0.5 1.1 0.3	0 30 15 0 0 325 0 0	37 10 370 LOSS 0 608 304 0 0 1382 0 0 0 0 0 2294	GAIN 0 1216 358 0 0 1776 0 0 0	0 33 0 0 0 237 0 0 0	277 10 270 LOSSS 0 0 0 0 0 1008 0 0 0 0 0 1677	GAIN 0 0 788 0 0 0 128 0 0 0 0	0 0 30 82 0 8 300 0 0	420 LOSS 0 0 608 1662 0 153 1275 0 0 0 0 3699	0 0 717 3325 0 19 162 0 0				0 0 0 0 0 42 0 42	LAUN 0 9 0 LOSS 0 0 0 0 0 0 0 102 0 153 0.27	GAIN 0 0 0 0 0 0 0 0 0 22 0 0 13	0 15 0 0 0 45 0 0	PWO 6 10 10 10 10 10 10 10 10 10 10 10 10 10	GAIN 0 0 3558 0 0 0 24 0 0 0 0	0 10 0 48 222 0 0 0	FOY 28 10 10 LOSS 0 0 203 0 0 917 944 0 0 0 0 2063	GAIN 0 0 239 0 0 1117 120 0 0			1		5.5		0 4 4 4 0 20 0 396 0	132 9 792 LOSS 0 81 81 0 382 0 1358 0 0 4268	0 162 96 162 0 49 0 173 0 0
DUCT GAIN	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS. NET EXPOSEO WALL NET EXPOSED ORLO EXPOSEO CLG NO ATTIC EXPOSEO CLG NO ATTIC EXPOSEO CLG BASEMENTICRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT LOSS SUBTOTAL 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	GAIN 15.0 40.5 23.9 40.5 99.8 2.4 0.5 0.4 0.5 1.1 0.3	0 30 15 0 0 325 0 0	37 10 370 LOSS 0 608 304 0 0 1382 0 0 0 0 0 2294	GAIN 0 1216 358 0 0 0 1776 0 0 0 17750	0 33 0 0 0 237 0 0 0	277 10 270 LOSSS 0 0 0 0 0 1008 0 0 0 0 0 1677	GAIN 0 0 788 0 0 128 0 0 0	0 0 30 82 0 8 300 0 0	420 LOSS 0 0 608 1662 0 153 1275 0 0 0 0 3699	0 0 717 3325 0 19 162 0 0 0				0 0 0 0 0 42 0 42	LAUN 0 9 0 LOSS 0 0 0 0 0 0 0 102 0 153 0.27	GAIN 0 0 0 0 0 0 0 0 0 0 13	0 15 0 0 0 45 0 0	PWO 6 10 10 10 10 10 10 10 10 10 10 10 10 10	GAIN 0 0 358 0 0 0 24 0 0 0 0 383	0 10 0 48 222 0 0 0	FOY 28 10 10 LOSS 0 0 203 0 0 917 944 0 0 0 0 2063	GAIN 0 0 239 0 0 1117 1220 0 0 0 475			1		15		0 4 4 4 0 20 0 396 0 0	132 9 792 LOSS 6 0 81 81 0 382 0 1358 0 0 4268 6251	0 162 96 162 0 49 0 173 0 0
HEAT GAIN PEOPLE 240 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSEO WALL NET EXPOSEO WALL NET EXPOSEO CLG EXPOSEO CLG NO ATTIC EXPOSEO CLG EXPOSEO FLOOR BASEMENT/CRAWL HEAT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS 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	GAIN 15.0 40.5 23.9 40.5 99.8 2.4 0.5 0.4 0.5 1.1 0.3	0 30 15 0 0 325 0 0	37 10 370 LOSS 0 608 304 0 0 0 1382 0 0 0 0 2294	GAIN 0 1216 358 0 0 0 1776 0 0 0 17750	0 33 0 0 0 237 0 0 0	277 10 270 LOSSS 0 0 0 0 0 1008 0 0 0 0 0 1677	GAIN 0 0 788 0 0 128 0 0 0	0 0 30 82 0 8 300 0 0	42 10 420 LOSS 0 0 608 1662 0 153 1275 0 0 0 0 3699	0 0 717 3325 0 19 162 0 0 0				0 0 0 0 0 42 0 42	LAUN 0 9 0 LOSS 0 0 0 0 0 0 51 0 0 153 0 .27 42	GAIN 0 0 0 0 0 0 0 0 0 0 13	0 15 0 0 0 45 0 0	PWO 6 10 60 LOSS 0 0 0 191 0 0 0 0 495 0.39 191	GAIN 0 0 358 0 0 0 24 0 0 0 0 383	0 10 0 48 222 0 0 0	FOY 28 10 280 10 LOSS 0 0 0 917 944 0 0 0 0 2063 0 0 794 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 239 0 0 1117 1220 0 0 0 475			1		15		0 4 4 4 0 20 0 396 0 0	132 9 792 LOSS 6 81 81 81 0 382 0 1358 0 0 4268 6251 6 1.05 6563	0 162 96 162 0 49 0 173 0 0 0 0 0 641
HEAT GAIN APPLIANCES/LIGHTS 481 481 481 481 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSEO WALL NET EXPOSEO CLG NO ATTIC EXPOSEO CLG EXPOSEO FLOOR BASEMENT/CRAWL HEAT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT GAIN OUCT LOSS	20.3 20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6	GAIN 15.0 40.5 23.9 40.5 99.8 2.4 0.5 0.4 0.5 1.1 0.3	0 30 15 0 0 325 0 0	37 10 370 LOSS 0 608 304 0 0 0 1382 0 0 0 0 2294	GAIN 0 1216 358 0 0 0 1776 0 0 0 17750 73	0 33 0 0 0 237 0 0 0	277 10 270 LOSSS 0 0 0 0 0 1008 0 0 0 0 0 1677	GAIN 0 0 788 0 0 0 128 0 0 0 0 0 0 916	0 0 30 82 0 8 300 0 0	42 10 420 LOSS 0 0 608 1662 0 153 1275 0 0 0 0 3699	0 0 717 3325 0 19 162 0 0 0 0				0 0 0 0 0 42 0 42	LAUN 0 9 0 LOSS 0 0 0 0 0 0 51 0 0 153 0 .27 42	GAIN 0 0 0 0 0 0 0 0 22 0 13	0 15 0 0 0 45 0 0	PWO 6 10 60 LOSS 0 0 0 191 0 0 0 0 495 0.39 191	GAIN 0 0 358 0 0 0 24 0 0 0 0 383	0 10 0 48 222 0 0 0	FOY 28 10 280 10 LOSS 0 0 0 917 944 0 0 0 0 2063 0 0 794 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 239 0 0 1117 1220 0 0 0 475 2			1		15		0 4 4 4 0 20 0 396 0 0	132 9 792 LOSS 6 81 81 81 0 382 0 1358 0 0 4268 6251 6 1.05 6563	0 162 96 162 0 49 0 173 0 0 0 0 0 641
TOTAL HT LOSS BTU/H 3177 2322 5123 215 686 2858 TOTAL HT GAIN x 1.3 BTU/H 2996 1866 6344 740 548 684 2858	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSEO WALL NET EXPOSEO WALL NET EXPOSEO CLG NO ATTIC EXPOSEO CLG EXPOSEO FLOOR BASEMENT/CRAWL HEAT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT GAIN OUCT LOSS DUCT GAIN HEAT GAIN HEAT GAIN HEAT GAIN HEAT GAIN HEAT GAIN PEOPLE	20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6 2.4	GAIN 15.0 40.5 23.9 40.5 99.8 2.4 0.5 0.4 0.5 1.1 0.3	0 30 15 0 0 325 0 0 0	37 10 370 LOSS 0 608 304 0 0 0 1382 0 0 0 0 2294	GAIN 0 1216 358 0 0 0 176 0 0 0 0 1750 73	0 33 0 0 0 237 0 0 0	277 10 270 LOSSS 0 0 0 0 0 1008 0 0 0 0 0 1677	GAIN 0 0 788 0 0 0 128 0 0 0 128 0 0 0 138 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 30 82 0 8 300 0 0	42 10 420 LOSS 0 0 608 1662 0 153 1275 0 0 0 0 3699	0 0 717 3325 0 19 162 0 0 0 0				0 0 0 0 0 42 0 42	LAUN 0 9 0 LOSS 0 0 0 0 0 0 51 0 0 153 0 .27 42	GAIN 0 0 0 0 0 0 0 0 13 3 5 1 52	0 15 0 0 0 45 0 0	PWO 6 10 60 LOSS 0 0 0 191 0 0 0 0 495 0.39 191	GAIN 0 0 0 3558 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 10 0 48 2222 0 0 0	FOY 28 10 280 10 LOSS 0 0 0 917 944 0 0 0 0 2063 0 0 794 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 239 0 0 1177 120 0 0 0 475 20 0			1		15		0 4 4 4 0 20 0 396 0 0	132 9 792 LOSS 6 81 81 81 0 382 0 1358 0 0 4268 6251 1.05 6563	0 1162 96 1162 0 0 49 0 1173 0 0 0
TOTAL HT GAIN x 1.3 BTU/H 2996 1866 6344 740 548 C44	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSEO WALL NET EXPOSEO BOM EXPOSEO CLG NO ATTIC EXPOSEO CLG EXPOSEO FLOOR BASEMENT/CRAWL HEAT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS OUCT GAIN UCT LOSS DUCT GAIN HEAT GAIN PEOPLE HEAT GAIN PEOPLE	20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6 2.4	GAIN 15.0 40.5 23.9 40.5 99.8 2.4 0.5 0.4 0.5 1.1 0.3	0 30 15 0 0 0 325 0 0 0 0	37 10 370 LOSS 0 608 304 0 0 0 1382 0 0 0 0 2294 0.39 883	GAIN 0 1216 358 0 0 0 1776 0 0 0 17750 73 0 0 0	0 33 0 0 0 237 0 0 0	277 10 270 LOSSS 0 0 0 0 0 1008 0 0 0 0 0 1677	GAIN 0 0 788 0 0 0 128 0 0 0 916 38 0 0 0	0 0 30 82 0 8 300 0 0	42 10 420 LOSS 0 0 608 1662 0 153 1275 0 0 0 0 3699 0.3699	0 0 717 3325 0 19 162 0 0 0 0 4223				0 0 0 0 0 42 0 42	LAUN 0 9 0 LOSS 0 0 0 0 0 0 51 0 0 153 0 .27 42	GAIN 0 0 0 0 0 0 0 0 0 0 13 3 35 1 52 0	0 15 0 0 0 45 0 0	PWO 6 10 60 LOSS 0 0 0 191 0 0 0 0 495 0.39 191	GAIN 0 0 0 3558 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 10 0 48 2222 0 0 0	FOY 28 10 280 10 LOSS 0 0 0 917 944 0 0 0 0 2063 0 0 794 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 239 0 0 117 120 0 0 0 475 20 0 0 0					15		0 4 4 4 0 20 0 396 0 0	132 9 792 LOSS 0 81 81 81 0 382 0 0 4268 6251 6563	0 162 96 162 0 49 0 173 0 0 0
	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSEO WALL NET EXPOSEO WALL NET EXPOSEO CLG NO ATTIC EXPOSEO CLG ON OATTIC EXPOSEO CLG EXPOSEO FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS DUCT LOSS DUCT GAIN HEAT GAIN PEOPLE HEAT GAIN APPLIANCES/LIGHTS TOTAL HT LOSS BTU/H	20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6 2.4	GAIN 15.0 40.5 23.9 40.5 99.8 2.4 0.5 0.4 0.5 1.1 0.3	0 30 15 0 0 0 325 0 0 0 0	37 10 370 LOSS 0 608 304 0 0 0 1382 0 0 0 0 0 2294 0.39 883 0	GAIN 0 1216 358 0 0 0 1776 0 0 17750 73 0 0 481	0 33 0 0 0 237 0 0 0	27 10 270 LOSS 0 0 669 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 0 788 0 0 0 128 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 30 82 0 8 300 0 0 0	42 10 420 LOSS 0 0 608 1662 0 153 1275 0 0 0 0 0 3699 0.39 1424	0 0 717 3325 0 19 162 0 0 0 0 4223				0 0 0 0 0 42 0 42	LAUN 0 9 9 0 LOSS 0 0 0 0 0 0 0 151 0 102 0 0 153 0.27 42 20	GAIN 0 0 0 0 0 0 0 0 0 0 13 3 35 1 52 0	0 15 0 0 0 45 0 0	PWO 6 10 10 10 10 10 10 10 10 10 10 10 10 10	GAIN 0 0 0 3558 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 10 0 48 2222 0 0 0	FOY 28 10 280 10 LOSS 0 0 917 944 0 0 0 0 2063 0.39 794 0	GAIN 0 0 239 0 0 117 120 0 0 0 475 20 0 0 0					15		0 4 4 4 0 20 0 0 396 0 0	132 9 792 LOSS 0 81 81 81 0 1358 0 0 4268 6251 6563 0	0 162 96 162 0 49 0 173 0 0 0

TOTAL HEAT GAIN BTU/H:

28814

TONS: 2.40

LOSS OUE TO VENTILATION LOAD BTU/H: 1554

STRUCTURAL HEAT LOSS: 39793

TOTAL COMBINED HEAT LOSS BTU/H: 41347

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O.T.		D 4 D) 4 C		COD	E AND A	NY OTH	ER REFER	ENCED	REQUIRE	MENTS.														
		BARLAS GREEN	SSINA PARK HO	MES				TYPE:	CHERRY	12			DATE:	Aug-22			GFA:	2354	LO#	98652				
HEATING CFM TOTAL HEAT LOSS AIR FLOW RATE CFM	23.32		TOTAL H AIR FLOW F		28,616 32.43		а	furr a/c coil vailable	pressure nace filter pressure pressure s/a & r/a	0.6 0.05 0.2 0.35							GMEC960 FAN	#0 603BNA SPEED LOW	GOODMA		OUTPUT	AFUE = (BTU/H) = (BTU/H) =	60,000 57, 600	
RUN COUNT	4th	3rd	2nd	1st	Bas		mle.			0.10		-1-		0.47				EDLOW	000		DESI	GN CFM =		
S/A R/A	0	0	11 5	8	3 1				ess. loss	0.18 0.02	r/s		pressure ess. Loss	0.17 0.02				MEDIUM IM HIGH				CFM @ .	6 " E.S.P.	
All S/A diffusers 4"x10" unle				ut.					ssure s/a	0.16			ssure r/a	0.15			MEDIO	HIGH	1131	т	EMPERAT	URE RISE	57	°F
All S/A runs 5"Ø unless not												•										-		
RUN #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19		21	22	23	
RM LOSS MBH.	MBR 0.86	ENS 1.64	BED-2 1.15	BED-2 1.15	BED-3 1.84	BED-4 1.17	BATH 0.84	BED-3 1.84	LIB 1.59	MBR 0.86	ENS-3 1.25	LIB 1.59	DIN 2.32	KT/FM 1.71	KT/FM 1.71	KT/FM 1.71	LAUN 0.21	PWD 0.69	FOY 2.86		BAS 4.27	BAS 4.27	BAS	
CFM PER RUN HEAT	20	38	27	27	43	27	20	43	37	20	29	37	54	40	40	40	5	16	67		100	100	4.27 100	
RM GAIN MBH.	1.46	1.14	1.58	1.58	1.92	1.52	0.51	1.92	1.50	1.46	0.94	1.50	1.87	2.11	2.11	2.11	0.74	0.52	0.64		0.50	0.50	0.50	
CFM PER RUN COOLING	47	37	51	51	62	49	17	62	49	47	30	49	61	69	69	69	24	17	21		16	16	16	
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	
ACTUAL DUCT LGH.	35	43	57	60	64	35	42	54	52	36	37	44	27	27	29	21	46	39	26		29	16	39	
EQUIVALENT LENGTH	150 185	200 243	180 237	120 180	180 244	140 175	150 192	160 214	130 182	160 196	150 187	130 174	140 167	80 107	130 159	110 131	130 176	110 149	140 166		130 159	120 136	140 179	
ADJUSTED PRESSURE	0.09	0.07	0.07	0.1	0.07	0.1	0.09	0.08	0.09	0.09	0.09	0.1	0.1	0.16	0.11	0.13	0.1	0.12	0.1		0.1	0.12	0.09	
ROUND DUCT SIZE	5	4	5	5	6	6	4	6	5	5	4	5	5	5	5	5	4	4	5		6	6	6	
HEATING VELOCITY (ft/min)	147	436	198	198	219	138	229	219	272	147	333	272	396	294	294	294	57	184	492		510	510	510	
COOLING VELOCITY (ft/min)	345	424	374	374	316	250	195	316	360	345	344	360	448	507	507	507	275	195	154		82	82	82	
OUTLET GRILL SIZE TRUNK	3X10 C	3X10 D	3X10 A	3X10 B	4X10 A	4X10 D	3X10 D	4X10 A	3X10 A	3X10 C	3X10 B	3X10 A	3X10 B	3X10 D	3X10 C	3X10 C	3X10 B	3X10 B	3X10 B		4X10 C	4X10 D	4X10 A	
THOUSE.																		<u> </u>	<u>D</u>		<u></u>		A	
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																								l
ROUND DUCT SIZE																								
HEATING VELOCITY (ft/min)																								1
COOLING VELOCITY (ft/min)																								
OUTLET GRILL SIZE TRUNK																								
TRUNK																	·							
SUPPLY AIR TRUNK SIZE																	RETURN A	AIR TRUNK	SIZE					
	TRUNK	STATIC	ROUND	RECT			VELOCITY			TRUNK	STATIC	ROUND	RECT			VELOCITY		TRUNK	STATIC	ROUND	RECT			VELOCITY
	CFM	PRESS.	DUCT	DUCT		c	(ft/min)		TOUR	CFM	PRESS.	DUCT	DUCT	_		(ft/min)		CFM	PRESS.	DUCT	DUCT		_	(ft/min)
TRUNK A	287 485	0.07 0.07	9.1 11.1	10 14	X X	8 8	517 624		TRUNK G	0	0.00 0.00	0	0	X	8 8	0	TRUNK O	0	0.05 0.05	0 0	0	X	8 8	0
TRUNK C	220	0.07	7.7	8	x	8	495		TRUNK I	Ö	0.00	0	0	X X	8	0	TRUNK Q	0	0.05	0	0	X X	8	0
TRUNK D	445	0.07	10.7	14	x	8	572		TRUNK J	ŏ	0.00	ő	ő	X	8	ő	TRUNK R	Ö	0.05	ő	ő	x	8	ő
TRUNK E	0	0.00	0	0	Х	8	0		TRUNK K	0	0.00	0	0	x	8	0	TRUNK S	0	0.05	0	Ō	x	8	ō
TRUNK F	0	0.00	0	00	X	8	0		TRUNK L	0	0.00	0	0	X	8	0	TRUNK T	0	0.05	0	0	х	8	0
																	TRUNK U	0	0.05 0.05	0	0	X X	8 8	0
RETURN AIR #	1	2	3	4	5	6										BR	TRUNK W	Ö	0.05	0	0	X	8	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		TRUNK X	928	0.05	15.3	28	x	8	597
AIR VOLUME	135	95	85	75 0.15	75	360	0	0	0	0	0	0	0	0	0	103	TRUNK Y	615	0.05	13.1	20	Х	8	554
PLENUM PRESSURE ACTUAL DUCT LGH.	0.15 45	0.15 36	0.15 64	0.15 68	0.15 69	0.15 38	0.15 1	0.15 1	0.15 1	0.15 1	0.15 1	0.15 1	0.15 1	0.15	0.15	0.15 14	TRUNK Z DROP	255 928	0.05 0.05	9.5	10	X	8	459
EQUIVALENT LENGTH	45 175	140	195	235	240	36 150	Ó	ó	Ó	ó	0	0	Ó	1 0	1 0	180	DROP	920	บ.บอ	15.3	24	х	10	557
TOTAL EFFECTIVE LH	220	176	259	303	309	188	1	1	1	1	1	1	1	1	1	194								and the same of th
ADJUSTED PRESSURE	0.07	0.08	0.06	0.05	0.05	0.08	14.80	14.80	14.80	14.80	14.80	14.80	14.80	14.80	14.80	0.08								-
ROUND DUCT SIZE	6.8	5.8	6	6	6	9.6	0	0	0	0	0	0	0	0	0	6								-
INLET GRILL SIZE	8 X	8 X	8 X	8 X	8 X	8 X	0 X	0 X	0 X	0 X	0 X	0 X	0 X	0 X	0 X	8 X								1
INLET GRILL SIZE	14	14	14	14	14	30	ô	Ô	Ô	0	ô	ô	ô	ô	ô	14								



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TYPE: SITE NAME: CHERRY 12

BARLASSINA

LO# 98652

RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

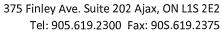
COMBUSTION APPLIANCES	9.32.3.1(1)	SUPPLEMENTAL VENTILATION CAPACITY 9.3	32.3.5.
a) Direct vent (sealed combustion) only		Total Ventilation Capacity 180.2 cfm	١
b) Positive venting induced draft (except fireplaces)		Less Principal Ventil. Capacity 79.5 cfm	ו ו
c) Natural draft, B-vent or induced draft gas fireplace		Required Supplemental Capacity 100.7 cfm	1
d) Solid Fuel (including fireplaces)			
e) No Combustion Appliances		PRINCIPAL EXHAUST FAN CAPACITY	
		Model: VANEE V150H Location: BSMT	
HEATING SYSTEM		79.5 cfm ✓ HVI Appr	roved
Forced Air Non Forced Air		PRINCIPAL EXHAUST HEAT LOSS CALCULATION	
		CFM ΔT *F FACTOR % LOS 79.5 CFM X 72 F X 1.08 X 0.25	1
Electric Space Heat	I	SUPPLEMENTAL FANS BY INSTALLING CONTRACTOR	
	L	Location Model cfm HVI Sone	es
HOUSE TYPE	9.32.1(2)	ENS BY INSTALLING CONTRACTOR 50 ✓ 3.5	
✓ I Type a) or b) appliance only, no solid fuel		BATH BY INSTALLING CONTRACTOR 50 / 3.5	
Type a) or b) appliance only, no solid ruel		ENS-3 BY INSTALLING CONTRACTOR 50 ✓ 3.5 PWD BY INSTALLING CONTRACTOR 50 ✓ 3.5	
II Type I except with solid fuel (including fireplaces)			
III Any Type c) appliance		HEAT RECOVERY VENTILATOR 9.32. Model: VANEE V150H	2.3.11.
		150 cfm high 35 cfm lo	w
IV Type I, or II with electric space heat		75 % Sensible Efficiency ✓ HVI Appr	roved
Other: Type I, II or IV no forced air		@ 32 deg F (0 deg C)	0.00
		LOCATION OF INSTALLATION	
SYSTEM DESIGN OPTIONS C	D.N.H.W.P.		l
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		BUILDER: GREENPARK HOMES	
		Name:	
TOTAL VENTILATION CAPACITY	9.32.3.3(1)	Address:	
Basement + Master Bedroom 2 @ 21.2 cfm 42.4	cfm	City:	
Other Bedrooms 3 @ 10.6 cfm 31.8	cfm	Telephone #: Fax #:	
Kitchen & Bathrooms <u>5</u> @ 10.6 cfm <u>53</u>	cfm	INSTALLING CONTRACTOR	
Other Rooms <u>5</u> @ 10.6 cfm <u>53.0</u>	cfm	Name:	_
Table 9.32,3.A. TOTAL <u>180.2</u>	cfm	Address:	
PRINCIPAL VENTILATION CAPACITY REQUIRED 9	2024(4)	City:	
FRINGIFAL VENTILATION CAFACITY REQUIRED 9	.32.3.4.(1)	Telephone #: Fax #:	
1 Bedroom 31.8	cfm		
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	In accordance with the Orland Building Code. Name: HVAC Designs Ltd.	
4 Bedroom 79.5	cfm	Signature: Mahan Olombe.	
5 Bedroom 95.4	cfm	HRAI# 001820	
TOTAL 79.5 cfm		Date: August-22	
THE VIEW AND TAKE RESPONDILLLY FOR THE DESIGN WORK AND AM OUAL IF	TO DING THE AP	PERCHERIALE LA LEGICIEY AS AN TO HER DESIGNED TIMBED DIVISION C. 3.2.5 OF THE BUILDING CODE	

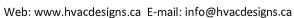


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			CSA F2	80-12 Residential Hea	t Loss and Heat Gair	n Calculations									
			Form	ula Sheet (For Air Lea	kage / Ventiliation C	Calculation)									
LO#:	98652	Model: CHERRY 12		Builde	r: GREENPARK HOMES				Date:	2022-08-30					
		Volume Calculatio	n		Air Change & Delta T Data										
Javes Volume				1											
House Volume Level	Floor Area (ft²)	Floor Height (ft)	Volume (ft³)	-	WINTER NATURAL AIR CHANGE RATE 0.319 5UMMER NATURAL AIR CHANGE RATE 0.085										
Bsmt	1054	9	9486			JOINTUILIT IVA	TOTAL AIR CHAIN	GE NATE	0.085						
First	1054	10	10540												
5 e cond	1300	9	11700				Design Te	emperature Diff	erence						
Third	0	9	0				Tin °C	Tout °C	ΔT°C	ΔT °F					
Fourth	0	9	0			Winter DTDh	22	-18	40	72					
		Total:	31,726.0 ft ³			5ummer DTDc	24	29	5	9					
		Total:	898.4 m³												
	5.2.	3.1 Heat Loss due to Ai	r Leakage			6.2.6 S	ensible Gain due	to Air Leakage							

	$HL_{airb} =$	$LR_{airh} \times \frac{V_b}{3.6} \times D$	$TD_h \times 1.2$		Н	$IG_{salb} = LR_{airc} \times$	$\frac{V_b}{3.6} \times DTD_c$:	× 1.2							
0.319	x 249.55	x 40 °C	x 1.2	= 3847 W	= 0.085	x <u>249.55</u>	x <u>5°C</u>	x 1.2	. = [129 W					
				= 13127 Btu/h					= [442 Btu/h					
	S.2.3.2 He	eat Loss due to Mechan	ical Ventilation		6.2.7 Sensible heat Gain due to Ventilation										
	$HL_{vairb} =$	$PVC \times DTD_h \times 1$	$.08 \times (1-E)$		$HL_{vairb} = PVC \times DTD_h \times 1.08 \times (1 - E)$										
80 CFM	x 72 °F	x <u>1.08</u>	x 0.25	= 1554 Btu/h	80 CFM	x 9°F	x <u>1.08</u>	x <u>0.25</u>	. = [197 Btu/h					
<u></u>			5.2.3.3 Calcula	tion of Air Change Heat I	oss for Each Room (Flor	or Multiplier Section)									
		HL_{ai}		$pr \times HL_{airbv} \times \{(H$		· · · · · · · · · · · · · · · · · · ·	gclevel)}			**************************************					
		Level	Level Factor (LF)	HLairve Air Leakage + Ventilation Heat Loss	Level Conductive Heat	1	1								
			-2-2 20101 (21)	(Btu/h)	Loss: (HL _{clevel})	HLairbv / H	Lievel)								
		1	0.5	X-3-16-16-16-16-16-16-16-16-16-16-16-16-16-	6,251	1.050)								
		2	0.3		10,228	0.385									
		3	0.2	13,127	9,625	0.273									
		4	0		0	0.000			Michael O'Ro	urke					
		5	0		0	0.000)		BCIN# 19669						
				- ventilation heat loss entilation system HLairve	= 0				Maha	l Oxombe.					







HEAT LOSS AND GAIN SUMMARY SHEET

		IILAI LOS	J AND GAIN	SOMMANT SHEET	
MODEL:	CHERRY 12			BUILDER: GREENPARK HOMES	
SFQT:	23S4	LO# 9865	52	SITE: BARLASSINA	
DESIGN A	SSUMPTIONS				
	R DESIGN TEMP. DESIGN TEMP.		°F 0 72	COOLING OUTDOOR DESIGN TEMP. INDOOR DESIGN TEMP. (MAX 75°F) WINDOW 5HGC	°F 84 7S 0.S0
BUILDING	DATA				
ATTACHM	1ENT:	ATTA	ACHED	# OF STORIES (+BASEMENT):	3
FRONT FA	CES:		EAST	ASSUMED (Y/N):	Υ
AIR CHAN	GES PER HOUR:		3.S7	ASSUMED (Y/N):	Υ
AIR TIGHT	NE55 CATEGORY:	AVE	ERAGE	ASSUMED (Y/N):	Υ
WIND EXF	POSURE:	SHEL	TERED	ASSUMED (Y/N):	Υ
HOUSE V	OLUME (ft³):	31	1726.0	ASSUMED (Y/N):	Υ
INTERNAL	. 5HADING:	BLINDS/CUR	TAINS	ASSUMED OCCUPANT5:	5
INTERIOR	LIGHTING LOAD (Btu/l	n/ft²):	1.27	DC BRUSHLESS MOTOR (Y/N):	Υ
FOUNDAT	TION CONFIGURATION	В	CIN_1	DEPTH BELOW GRADE:	6.0 ft
LENGTH:	57.0 ft	WIDTH:	25.0 ft	EXPOSED PERIMETER:	132.0 ft

2012 OBC - COMPLIANCE PACKAGE Component	NOT THE GRANTING OF A PERMIT NOR REVIEWING OF SPECS & DRAWINGS NOR INSPECTIONS MADE DURING INSTALLATION BY THE OFFICIAL HAVING JURISDICTION SHALL RELIEVE THE OWNER FROM REQUIREMENTS OF THE ONTARIO BUILDING	Compliance	e Package A1
	CODE AND ANY OTHER REFERENCED REQUIREMENTS.	Nominal	Min. Eff.
Ceiling with Attic Space Minimum RSI (R)-	Value	60	59.22
Ceiling Without Attic 5pace Minimum R5I	(R)-Value	31	27.65
Exposed Floor Minimum RSI (R)-Value		31	29.80
Walls Above Grade Minimum RSI (R)-Valu	22	17.03	
Basement Walls Minimum RSI (R)-Value		20 ci	21.12
Below Grade 5lab Entire surface > 600 mi	n below grade Minimum RSI (R)-Value	-	-
Edge of Below Grade Slab ≤ 600 mm Belo	w Grade Minimum RSI (R)-Value	10	10
Heated Slab or Slab ≤ 600 mm below grad	de Minimum RSI (R)-Value	10	11.13
Windows and Sliding Glass Doors Maximi	um U-Value	0.28	-
Skylights Maximum U-Value		0.49	-
Space Heating Equipment Minimum AFU	Ε	96%	-
HRV/ERV Minimum Efficiency	75%	-	
Domestic Hot Water Heater Minimum EF		0.8	-

INDIVIDUAL BCIN: 19669 MICHAEL O'ROURKE







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Residential Foundation Thermal Load Calculator

Supplemental tool for CAN/CSA-F280

We	eather Sta	tion Description
Province:	Ontario	
Region:	Cambrid	ge
	Site D	escription
Soil Conductivity:	Normal o	conductivity: dry sand, loam, clay
Water Table:	Normal (7-10 m, 23-33 ft)
	Foundatio	n Dimensions
Floor Length (m):	17.4	
Floor Width (m):	7.6	ggrowe name to the state of the
Exposed Perimeter (m):	40.2	
Wall Height (m):	2.7	
Depth Below Grade (m):	1.83	Insulation Configuration
Window Area (m²):	1.1	
Door Area (m²):	1.9	
	Radi	ant Slab
Heated Fraction of the Slab:	0	
Fluid Temperature (°C):	33	
	Desig	n Months
Heating Month	1	
	Founda	tion Loads
Heating Load (Watts):		1250

TYPE: CHERRY 12 **LO#** 98652







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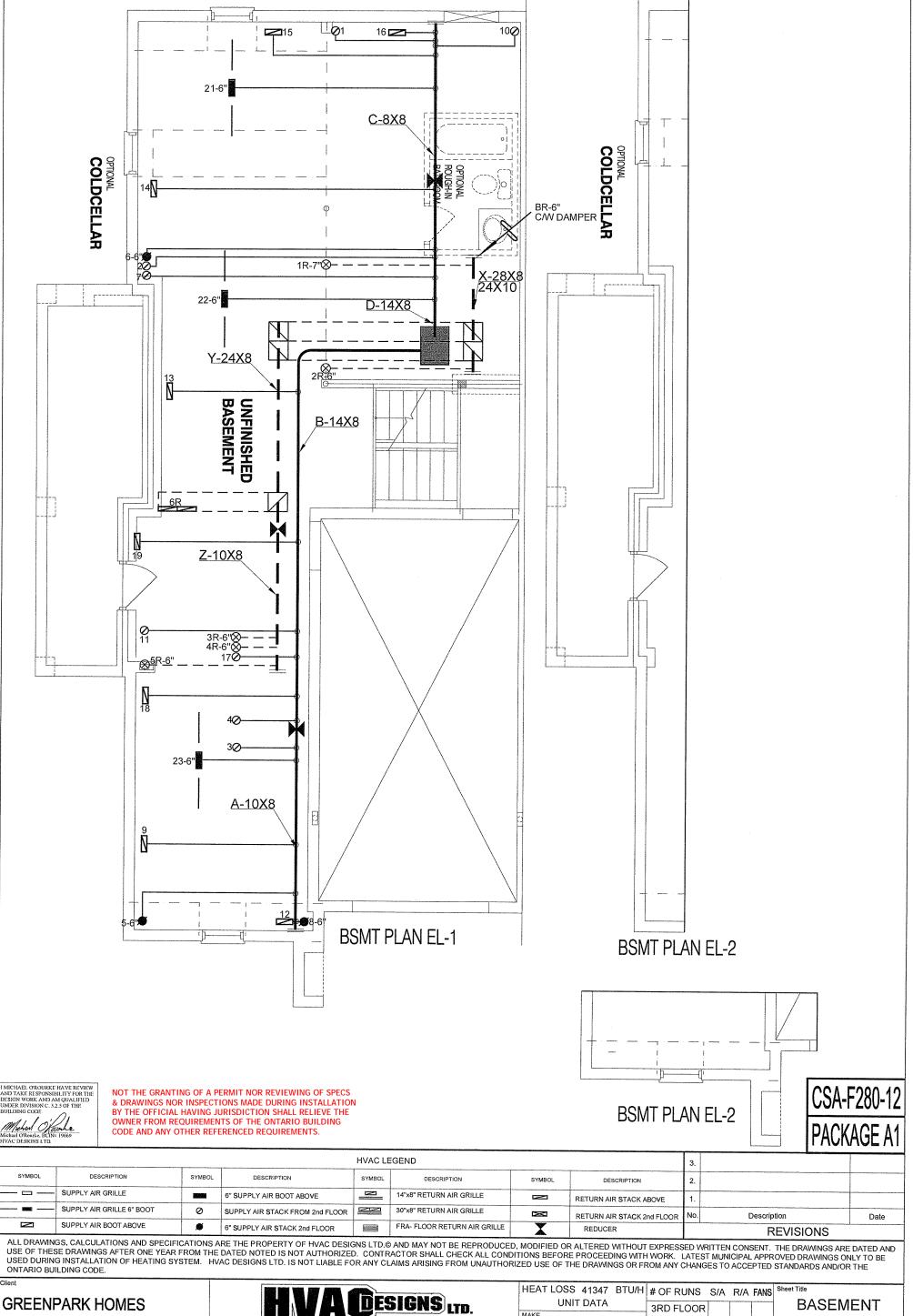
Air Infiltration Residential Load Calculator

Supplemental tool for CAN/CSA-F280

Weather Statio	n Des	cripti	ion					
Province:	Ontar	io						
Region:	Camb	ridge						
Weather Station Location:	Open	flat te	rrain, g	rass				
Anemometer height (m):	10							
Local Sh	ieldin	g						
Building Site:	Subur	ban, fo	orest					
Walls:	Heavy	/						
Flue:	Heavy	/						
Highest Ceiling Height (m):	6.71							
Building Cor	figura	ation						
Type:	Semi							
Number of Stories:	Two							
Foundation:	Full							
House Volume (m³):	898.4							
Air Leakage/	Ventil	ation)					
Air Tightness Type:	Prese	nt (196	51-) (3.	57 ACH	1)			
Custom BDT Data:	ELA @	9 10 Pa	ì.		1197.6 cm²			
	3.57				ACH @ 50 Pa			
Mechanical Ventilation (L/s):	To	tal Sup	ply		Total Exhaust			
		37.5			37.5			
Flue S	Size							
Flue #:	#1	#2	#3	#4	·			
Diameter (mm):	0	0	0	0				
Natural Infilt	ation	Rate	s					
Heating Air Leakage Rate (ACH/H):		0	.31	9				
Cooling Air Leakage Rate (ACH/H):		0	.08	5				

TYPE: CHERRY 12 **LO#** 98652





BARLASSINA CAMBRIDGE, ONTARIO

Block 119 Units 25 to 30

CHERRY 12 2354 sqft

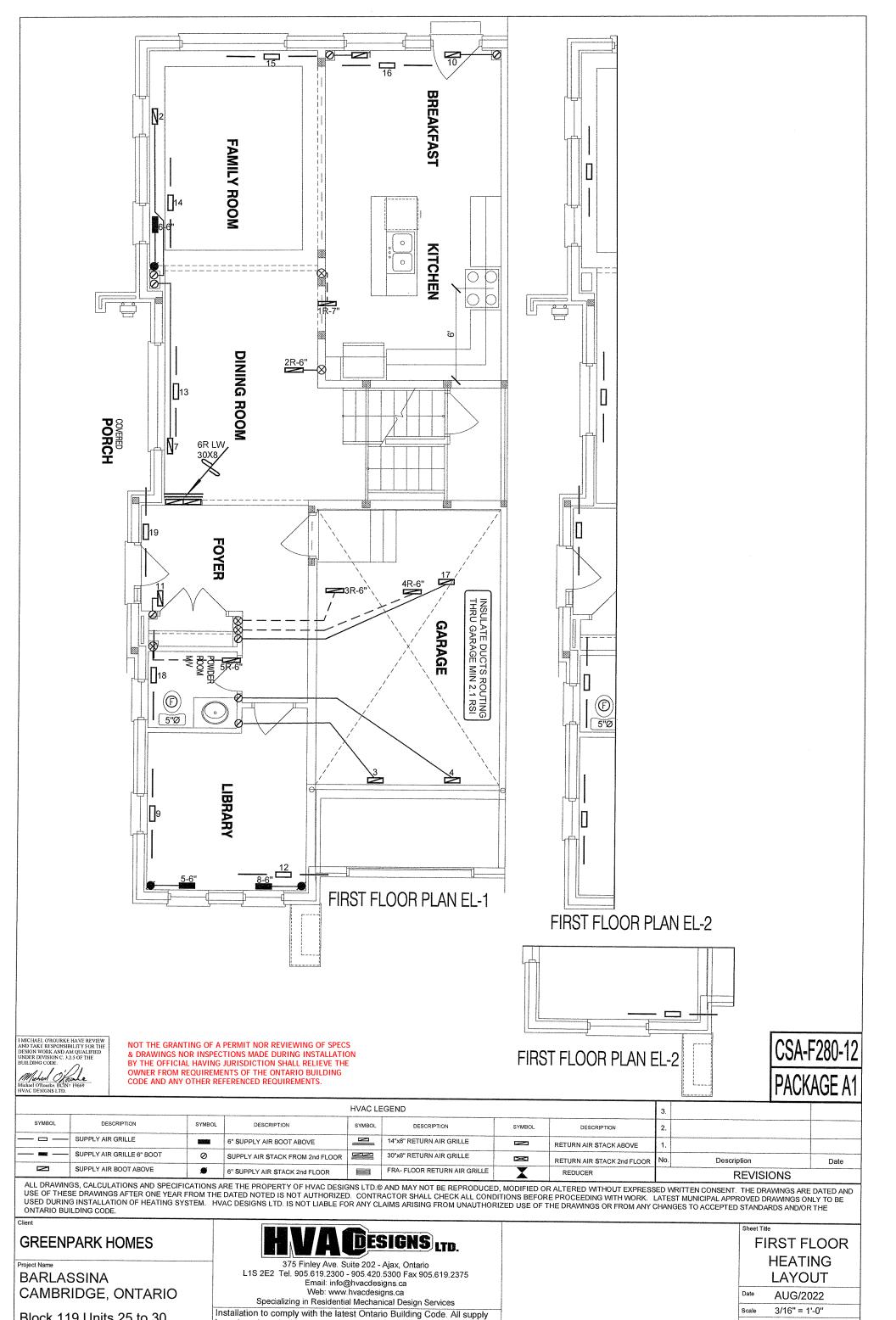
375 Finley Ave. Suite 202 - Ajax, Ontario

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 I	OSS 41347	BTU/H	# OF RUNS	S/A	R/A	FANS	Sheet Title	
		UNIT DATA		3RD FLOOR	I		T	BA	SEMENT
	MAKE	000004444	***						
	MODEL	GOODMAN		2ND FLOOR	11	5	4		IEATING
		EC960603BN	A	1ST FLOOR	8	1	2	L	.AYOUT
	INPUT	60	MBTU/H	BASEMENT	3	1	0	Date	4UG/2022
-	OUTPUT	57.6	мвти/н	ALL S/A DIFFUS	SERS	4 "x10	ייי	Scale (3/16" = 1'-0"
	COOLING	2.5	UNLESS NOTE	LL S/A	RUN	S 5"Ø	В	CIN# 19669	
	FAN SPEE	***************************************	cfm @ 0.6" w.c.	UNLESS NOTE ON LAYOUT, UI DOORS 1" min.	NDER	CUT	ISE	LO#	98652



branch outlets shall be equipped with a manual balancing damper.

adequately insulated and be gas-proofed.

Ductwork which passes through the garage or unheated spaces shall be

BCIN# 19669

LO#

98652

Block 119 Units 25 to 30

2354 sqft

CHERRY 12

