



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 122 Units 37 to 42

SITE MATE - SOLIC AND							BI	ock	122	2 Un	its 3	37 to	42																						
MONTH MATERIAL M																																			
ESP, WALL CLOSE CAMP CLOS		GREEN	PARK	HOME	S				TYPE:	WILLO	W 12				GFA:	2330							SI	UMMEF	R NATU	RAL A	IR CH	ANGE RATE 0.085	HE	EAT GAIN	ΔT °F.	. 9	SB-1	2 PACKA	GE A1
C.C. ST. ACTIONS AND ACTIONS ON LOSS CANN LOSS	ROOM USE				MBR			ENS			WIC			BED-2			BED-3			MEDIA			BATH												
Color Colo					33			15			7			11			37			0			18												
GRS-MAL, MATE, LOSS CAMP. GRS-MAL, MATE, LOSS C	CLG. HT.				9			9			9			9			9			9			9												
CHAMPIGN CLOSE CAMP CLOSE		FACTO	RS																																
GLAMPIC (MARCH MARCH MAR	GRS.WALL AREA	LOSS	GAIN		297			135			63		Т	\/99,⊝	tex	t he	r833			0			162												
ESST 203 408 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GLAZING				LOSS	GAIN		LOSS	GAIN		LOSS	GAIN	-				LOSS	GAIN		LOSS	GAIN		LOSS	GAIN											
SOUTH 23 23 26 24 47 570 6 0 0 12 24 27 27 67 106 1 0 2 24 27 27 67 106 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NORTH	20.3	15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
WEST 23.5 46.5 27 57 105 16 365 726 0 0 0 0 0 0 0 0 0	EAST	20.3	40.5	0	0	0	0	0	0	0	0	0	18	365	730	36	730	1460	0	0	0	0	0	0											
SENTET SS. 98.8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SOUTH	20.3	23.9	24	487	573	0	0	0	12	243	287	0	0	0	24	487	573	0	0	0	30	608	717											
MINISTRATION PRODUCED 12.	WEST	20.3	40.5	27	547	1095	18	365	730	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
MINISTRAMPHINE CLAIM 18	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											
MATERIANGE NAME A			2.4		0	0	0	0	0		0	0		0	0		0	0	0	0	0														
ENT PROPRIED CLG 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0.5	246	1046	133	117	497	63	51	217	28		344	44		1161	147		0	0			71											
EXPOSED CLG 12 0.5 28 29 129 132 142 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					0										0				0	0	0														
MO-STITE CENTROLOGIC LOCAL 2			0.5		291	125	152	186	80		68	30		215	93		238	103		313	135			75											
EXPOSED FLOOR 2.4 0.3 0 0 0 0 0 0 0 0 0																																			
BASEMENTRAMINITERAT LOSS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					0	0	0	0	0			0			54			0			0			-											
SLAB ON GRADE HEAT LOSS SUB TOTAL HT CARN 11920 1048 529 11920 1058 529 1362 2215 331 135 1344 69 693 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120				_		-	-	0		-					• •	_	0		_	0				-											
SUBTOTAL HT LOSS SUBTOTAL HT CANN LEVEL RATTOR MULTIPLIER 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.20 0.20 0.28 0.20 0.20 0.20 0.28 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20					-			0			-			-			0			0			-						1						
SUB TOTAL NT CANN 1926 572 344 221 2223 1316 883 883 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885 885				1	•			•			•			-			•		l	-			•						1						
LEVEL FACTOR MULTIPLIER 0.20 0.26 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.28 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.				1	_3, ,	1926		.540	873		020	344			921			2283	l	0.0	135			863					1						
ARI CHANGE HEAT COSS AND THE CHANGES HEAT CO				0.20	0.26	.525	0.20	0.26	2,0	0.20	0.26		0.20	0.26		0.20	0.26		0.20	0.26	.50	0.20	0.26	550					1						
ARCHANGE HEAT CAMN DUDT CASN DUDT CANN DUDT CASN DUDT CANN HAT CAMN PEOPLE 240 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				0.20			0.20			0.20			0.20			0.20			0.20			0.20													
DUCT LOSS DUCT GAIN HEAT GAIN PEOPLE 240 2					0.0	75			3.4		101	13		555	36		0.0	80		٥.	5		040	33											
DUCT GAN HEAT CARN PEOPLE 240 2 480 0 0 0 0 1 168 1240 1 240 0 0 0 0 0 0 0 0 0						75			34		•	13		170	30		0	09			3			33											
HEAT GAIN PEOPLE 240 2					U			U	•		U	•		170	160		U	•		U			U												
		240		_			_												_			•													
TOTAL HT LOSS BIUN 2884 1319 665 1872 3240 3292 394 1692 394 1692 394 1692 394 1692 394 3852 394 3852 394 3852 394 3852 394 3852 394 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 3		240					۰		0	0		0	1			1			۰		•	U		-											
TOTAL HT GAIN x 1.3 BTUM 3852 1179 464 2400 4022 809 1166					2004	402		4240	U			U		4070	402		2202	402		204	402		4000	۷											
ROOM USE EXP.WALL CLG.HT. 10	TOTAL HT LUSS BTU/H							1319			coo			10/2																					
EXP. WALL CLG. HT. FACTORS GRS.WALL AREA LOSS GAIN GLAZING NORTH 20.3 15.0 EAST 20.3 40.5 SOUTH 20.3 23.9 SOUTH 20.3 24.9	TOTAL UT CAIN v 4 2 DTII/U					2052			4470			404			2400			4000			000			4400											
EXP. WALL CLG. HT. FACTORS GRS.WALL AREA LOSS GAIN GLAZING NORTH 20.3 15.0 EAST 20.3 40.5 SOUTH 20.3 23.9 SOUTH 20.3 24.9	TOTAL HT GAIN x 1.3 BTU/H					3852			1179			464			2400			4022			809			1166											
CLG, HT FACTORS GRIN ALLAREA LOSS GAIN GLZSTORS GRIN CLOSS GAIN GLZSTORS GL						3852		I/D	1179	1		464			2400			4022			809			1166		MUD								BAS	
FACTORS GRS.WALL AREA LOSS GAIN LOSS	ROOM USE					3852			1179		KT/BF	464		FAM	2400		LAUN	4022		W/R	809		FOY	1166					<u> </u>						
GR.Z.WALL AREA LOSS GAIN GLAZEM GLAZE	ROOM USE EXP. WALL					3852		50	1179		KT/BF 16	464		FAM 33	2400		LAUN 8	4022		W/R 14	809		FOY 18	1166		5								133	
GLAZING NOTH OLOSS GAIN OLOSS GAI	ROOM USE EXP. WALL	EACTO	DQ.			3852		50	1179		KT/BF 16	464		FAM 33	2400		LAUN 8	4022		W/R 14	809		FOY 18	1166		5								133	
NORTH 20.3 15.0	ROOM USE EXP. WALL CLG. HT.					3852		50 10	1179		KT/BF 16 10	464		FAM 33 10	2400		LAUN 8 9	4022		W/R 14 10	809		FOY 18 10	1166		5 10								133 9	
EAST 20.3 40.5 SOUTH 20.3 23.9 SOUTH 20.3 SOUTH 20	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA					3852		50 10 500			KT/BF 16 10			FAM 33 10			LAUN 8 9 72			W/R 14 10			FOY 18 10			5 10 50	CAIN							133 9 798	CAIN
SOUTH 20.3 23.9 30 608 717 0 0 0 0 45 912 1075 12 243 287 15 304 308 30 608 717 0 0 0 0 0 0 0 0 0	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING	LOSS	GAIN			3852		50 10 500 LOSS	GAIN		KT/BF 16 10 160 LOSS	GAIN		FAM 33 10 330 LOSS	GAIN		LAUN 8 9 72 LOSS	GAIN		W/R 14 10 140 LOSS	GAIN		FOY 18 10 180 LOSS	GAIN		5 10 50 LOSS								133 9 798 LOSS	
WEST 23.3 40.5 SKYLT. 35.5 93.8 0 0 0 0 0 15 304 608 36 730 1460 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	LOSS 20.3	GAIN 15.0			3852	-	50 10 500 LOSS 0	GAIN 0	0	KT/BF 16 10 160 LOSS 0	GAIN 0		FAM 33 10 330 LOSS 0	GAIN 0		LAUN 8 9 72 LOSS 0	GAIN 0	0	W/R 14 10 140 LOSS 0	GAIN 0	0	FOY 18 10 180 LOSS 0	GAIN 0		5 10 50 LOSS	0						-	133 9 798 LOSS 0	0
SKYLT. 35.5 99.8 DOORS 19.1 24 DOORS 19.1 24 SET EXPOSED WALL SET EXPOSED	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST	20.3 20.3	15.0 40.5			3852	34	50 10 500 LOSS 0 689	GAIN 0 1378	0	KT/BF 16 10 160 LOSS 0	GAIN 0 0	0	FAM 33 10 330 LOSS 0	GAIN 0 0	0	1 LAUN 8 9 72 LOSS 0 0	GAIN 0 0	0	W/R 14 10 140 LOSS 0	GAIN 0 0	0	FOY 18 10 180 LOSS 0	GAIN 0 0	0	5 10 50 LOSS 0 0	0						4	133 9 798 LOSS 0 81	0 162
DOORS 19.1 2.4	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH	20.3 20.3 20.3 20.3	15.0 40.5 23.9			3852	34 30	50 10 500 LOSS 0 689 608	GAIN 0 1378 717	0 0 0	KT/BF 16 10 160 LOSS 0 0	GAIN 0 0	0 45	FAM 33 10 330 LOSS 0 0	GAIN 0 0 1075	0 12	1 LAUN 8 9 72 LOSS 0 0 243	GAIN 0 0 287	0 0 15	W/R 14 10 140 LOSS 0 0 304	GAIN 0 0 358	0 0 30	FOY 18 10 180 LOSS 0 0 608	GAIN 0 0 717	0 0	5 10 50 LOSS 0 0	0 0 0						4 8	133 9 798 LOSS 0 81 162	0 162 191
NET EXPOSED WALL NET EXPOSED BMT WALL ABOVE GR 3.4 0.4 NET EXPOSED DSMT WALL ABOVE GR 3.4 0.4 EXPOSED CLG 12 0.5 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	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST	20.3 20.3 20.3 20.3 20.3	15.0 40.5 23.9 40.5			3852	34 30 0	50 10 500 LOSS 0 689 608 0	GAIN 0 1378 717 0	0 0 0 15	KT/BF 16 10 160 LOSS 0 0 0	GAIN 0 0 0 608	0 45 36	FAM 33 10 330 LOSS 0 0 912 730	GAIN 0 0 1075 1460	0 12 0	72 LOSS 0 0 243 0	GAIN 0 0 287 0	0 0 15 0	W/R 14 10 140 LOSS 0 0 304	GAIN 0 0 358 0	0 0 30 0	FOY 18 10 180 LOSS 0 0 608	GAIN 0 0 717 0	0 0 0	5 10 50 LOSS 0 0 0 0	0 0 0						4 8 4	133 9 798 LOSS 0 81 162 81	0 162 191 162
NO ATTICE PROSED CLG 1.2 0.5 0 0 0 0 0 0 0 0 0	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT.	20.3 20.3 20.3 20.3 20.3 35.5	15.0 40.5 23.9 40.5 99.8			3852	34 30 0	50 10 500 LOSS 0 689 608 0	GAIN 0 1378 717 0	0 0 0 15	KT/BF 16 10 160 LOSS 0 0 0 304 0	GAIN 0 0 0 608	0 45 36 0	FAM 33 10 330 LOSS 0 0 912 730 0	GAIN 0 0 1075 1460 0	0 12 0 0	1 LAUN 8 9 72 LOSS 0 0 243 0 0	GAIN 0 0 287 0	0 0 15 0	W/R 14 10 140 LOSS 0 0 304 0	GAIN 0 0 358 0	0 0 30 0	FOY 18 10 180 LOSS 0 0 608 0	GAIN 0 0 717 0	0 0 0 0	5 10 50 LOSS 0 0 0 0	0 0 0 0						4 8 4 0	133 9 798 LOSS 0 81 162 81 0	0 162 191 162 0
EXPOSED CLG 1.2 0.5 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	20.3 20.3 20.3 20.3 20.3 35.5 19.1	15.0 40.5 23.9 40.5 99.8 2.4			3852	34 30 0 0	50 10 500 LOSS 0 689 608 0 0	GAIN 0 1378 717 0 0	0 0 0 15 0	KT/BF 16 10 160 LOSS 0 0 0 304 0 382	GAIN 0 0 0 608 0 49	0 45 36 0	FAM 33 10 330 LOSS 0 0 912 730 0	GAIN 0 0 1075 1460 0	0 12 0 0	1 LAUN 8 9 72 LOSS 0 0 243 0 0 0	GAIN 0 0 287 0 0	0 0 15 0 0	W/R 14 10 140 LOSS 0 0 304 0 0	GAIN 0 0 358 0 0	0 0 30 0 0	FOY 18 10 180 LOSS 0 0 608 0 0 344	GAIN 0 0 717 0 0	0 0 0 0 0	5 10 50 LOSS 0 0 0 0 0 0 0 382	0 0 0 0 0 49						4 8 4 0 21	133 9 798 LOSS 0 81 162 81 0 401	0 162 191 162 0 51
NO ATTIC EXPOSED CLG	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL	20.3 20.3 20.3 20.3 20.3 35.5 19.1 4.3	15.0 40.5 23.9 40.5 99.8 2.4 0.5			3852	34 30 0 0 0 436	50 10 500 LOSS 0 689 608 0 0	GAIN 0 1378 717 0 0 0 236	0 0 0 15 0 20	KT/BF 16 10 160 LOSS 0 0 0 304 0 382 531	GAIN 0 0 0 608 0 49 68	0 45 36 0 0 249	FAM 33 10 330 LOSS 0 0 912 730 0 0 1059	GAIN 0 0 1075 1460 0 0	0 12 0 0 0 0	LAUN 8 9 72 LOSS 0 0 243 0 0 0 255	GAIN 0 0 287 0 0 0	0 0 15 0 0 125	W/R 14 10 140 LOSS 0 0 304 0 0 0 531	GAIN 0 0 358 0 0 0	0 0 30 0 0 18 132	FOY 18 10 180 LOSS 0 0 608 0 0 344 561	GAIN 0 0 717 0 0 44 71	0 0 0 0 0 20 30	5 10 50 LOSS 0 0 0 0 0 0 0 382 128	0 0 0 0 0 49 16						4 8 4 0 21	133 9 798 LOSS 0 81 162 81 0 401	0 162 191 162 0 51
EXPOSED FLOOR 2.4 0.3	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BMT WALL ABOVE GR	20.3 20.3 20.3 20.3 35.5 19.1 4.3 3.4	15.0 40.5 23.9 40.5 99.8 2.4 0.5 0.4			3852	34 30 0 0 0 436	50 10 500 LOSS 0 689 608 0 0 0	GAIN 0 1378 717 0 0 0 236	0 0 0 15 0 20 125 0	KT/BF 16 10 160 LOSS 0 0 0 304 0 382 531 0	GAIN 0 0 0 608 0 49 68 0	0 45 36 0 0 249 0	FAM 33 10 330 LOSS 0 0 912 730 0 0 1059 0	GAIN 0 0 1075 1460 0 0 135	0 12 0 0 0 0 60	LAUN 8 9 72 LOSS 0 0 243 0 0 0 255 0	GAIN 0 0 287 0 0 0 32	0 0 15 0 0 0 125	W/R 14 10 140 LOSS 0 0 304 0 0 0 531	GAIN 0 0 358 0 0 0 68	0 0 30 0 0 18 132 0	FOY 18 10 180 LOSS 0 0 608 0 0 344 561 0	GAIN 0 0 717 0 0 44 71 0	0 0 0 0 0 20 30	5 10 50 LOSS 0 0 0 0 0 0 0 382 128 0	0 0 0 0 0 49 16						4 8 4 0 21 0 399	133 9 798 LOSS 0 81 162 81 0 401 0	0 162 191 162 0 51 0
BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT LOSS SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT GAIN DUCT LOSS O	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BSMT WALL ABOVE OR EXPOSED CLG	20.3 20.3 20.3 20.3 35.5 19.1 4.3 3.4	15.0 40.5 23.9 40.5 99.8 2.4 0.5 0.4 0.5			3852	34 30 0 0 0 436 0	50 10 500 LOSS 0 689 608 0 0 0 1854 0	GAIN 0 1378 717 0 0 236 0	0 0 0 15 0 20 125 0	KT/BF 16 10 160 LOSS 0 0 0 304 0 382 531 0	GAIN 0 0 0 608 0 49 68 0	0 45 36 0 0 249 0	FAM 33 10 330 LOSS 0 0 912 730 0 0 1059 0	GAIN 0 1075 1460 0 0 135 0	0 12 0 0 0 0 60 0	LAUN 8 9 72 LOSS 0 0 243 0 0 0 255 0 120	GAIN 0 0 287 0 0 0 32 0 52	0 0 15 0 0 0 125 0	W/R 14 10 140 LOSS 0 0 304 0 0 0 531 0	GAIN 0 0 358 0 0 0 68	0 0 30 0 0 18 132 0	FOY 18 10 180 LOSS 0 0 608 0 0 344 561 0	GAIN 0 717 0 0 44 71 0	0 0 0 0 0 20 30 0	5 10 50 LOSS 0 0 0 0 0 0 382 128 0	0 0 0 0 0 49 16 0						4 8 4 0 21 0 399	133 9 798 LOSS 0 81 162 81 0 401 0 1368	0 162 191 162 0 51 0 174
SLAB ON GRADE HEAT LOSS 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 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 40.5 99.8 2.4 0.5 0.4 0.5			3852	34 30 0 0 0 436 0	50 10 500 LOSS 0 689 608 0 0 0 1854 0	GAIN 0 1378 717 0 0 236 0	0 0 0 15 0 20 125 0 0	KT/BF 16 10 160 LOSS 0 0 304 0 382 531 0 0	GAIN 0 0 608 0 49 68 0	0 45 36 0 0 249 0 0	FAM 33 10 330 LOSS 0 0 912 730 0 0 1059 0	GAIN 0 0 1075 1460 0 0 135 0	0 12 0 0 0 60 0 98	LAUN 8 9 72 LOSS 0 0 243 0 0 255 0 120 0	GAIN 0 287 0 0 32 0 52	0 0 15 0 0 0 125 0	W/R 14 10 140 LOSS 0 0 304 0 0 0 531 0	GAIN 0 0 358 0 0 68 0	0 0 30 0 0 18 132 0 0	FOY 18 10 180 LOSS 0 0 608 0 0 344 561 0 0	GAIN 0 0 717 0 0 44 71 0 0	0 0 0 0 0 20 30 0	5 10 50 LOSS 0 0 0 0 0 382 128 0 0	0 0 0 0 0 49 16 0						4 8 4 0 21 0 399 0	133 9 798 LOSS 0 81 162 81 0 401 0 1368 0	0 162 191 162 0 51 0 174 0
SUBTOTAL HT COSS SUB TOTAL HT GAIN 2331 724 2669 371 426 835 1513 510 740 740 740 740 740 740 740 740 740 74	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BSMT WALL ABOVE GR EXPOSED CLG 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	15.0 40.5 23.9 40.5 99.8 2.4 0.5 0.4 0.5			3852	34 30 0 0 0 436 0	50 10 500 LOSS 0 689 608 0 0 0 1854 0 0	GAIN 0 1378 717 0 0 236 0	0 0 0 15 0 20 125 0 0	KT/BF 16 10 160 LOSS 0 0 304 0 382 531 0 0	GAIN 0 0 608 0 49 68 0	0 45 36 0 0 249 0 0	FAM 33 10 330 LOSS 0 0 912 730 0 0 1059 0 0 0 0 0	GAIN 0 0 1075 1460 0 0 135 0	0 12 0 0 0 60 0 98	LAUN 8 9 72 LOSS 0 0 243 0 0 255 0 120 0 0	GAIN 0 287 0 0 32 0 52	0 0 15 0 0 0 125 0	W/R 14 10 140 LOSS 0 0 304 0 0 0 531 0 0	GAIN 0 0 358 0 0 68 0	0 0 30 0 0 18 132 0 0	FOY 18 10 180 LOSS 0 608 0 0 344 561 0 0	GAIN 0 0 717 0 0 44 71 0 0	0 0 0 0 0 20 30 0	5 10 50 LOSS 0 0 0 0 0 382 128 0 0	0 0 0 0 0 49 16 0						4 8 4 0 21 0 399 0	798 LOSS 0 81 162 81 0 401 0 1368 0	0 162 191 162 0 51 0 174 0
SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.30 0.40 0.4	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BANT WALL ABOVE OR EXPOSED CLG NO ATTIC EXPOSED CLG 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	15.0 40.5 23.9 40.5 99.8 2.4 0.5 0.4 0.5			3852	34 30 0 0 0 436 0	50 10 500 LOSS 0 689 608 0 0 0 1854 0 0	GAIN 0 1378 717 0 0 236 0	0 0 0 15 0 20 125 0 0	KT/BF 16 10 160 LOSS 0 0 0 304 0 382 531 0 0	GAIN 0 0 608 0 49 68 0	0 45 36 0 0 249 0 0	FAM 33 10 330 LOSS 0 0 912 730 0 0 1059 0 0 0 0 0 0 0	GAIN 0 0 1075 1460 0 0 135 0	0 12 0 0 0 60 0 98	LAUN 8 9 72 LOSS 0 0 243 0 0 0 255 0 120 0 0 0 0	GAIN 0 287 0 0 32 0 52	0 0 15 0 0 0 125 0	W/R 14 10 140 LOSS 0 0 304 0 0 531 0 0 0	GAIN 0 0 358 0 0 68 0	0 0 30 0 0 18 132 0 0	FOY 18 10 180 LOSS 0 0 608 0 0 344 561 0 0 0	GAIN 0 0 717 0 0 44 71 0 0	0 0 0 0 0 20 30 0	5 10 50 LOSS 0 0 0 0 0 0 382 128 0 0 0	0 0 0 0 0 49 16 0						4 8 4 0 21 0 399 0	798 LOSS 0 81 162 81 0 401 0 1368 0	0 162 191 162 0 51 0 174 0
LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS O .40 O .30 0.40 O .30 O .30 0.40 O .30 O .30 0.40 O .30	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SYUTT. DOORS NET EXPOSED WALL NET EXPOSED BMIT WALL ABOVE GR EXPOSED CLG EXPOSED CLG 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	15.0 40.5 23.9 40.5 99.8 2.4 0.5 0.4 0.5			3852	34 30 0 0 0 436 0	50 10 500 LOSS 0 689 608 0 0 1854 0 0 0	GAIN 0 1378 717 0 0 236 0	0 0 0 15 0 20 125 0 0	KT/BF 16 10 160 LOSS 0 0 0 304 0 382 531 0 0 0	GAIN 0 0 608 0 49 68 0	0 45 36 0 0 249 0 0	FAM 33 10 330 LOSS 0 0 912 730 0 0 1059 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 1075 1460 0 0 135 0	0 12 0 0 0 60 0 98	LAUN 8 9 72 LOSS 0 0 243 0 0 0 255 0 120 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 287 0 0 32 0 52	0 0 15 0 0 0 125 0	W/R 14 10 140 LOSS 0 0 0 304 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 358 0 0 68 0	0 0 30 0 0 18 132 0 0	FOY 18 10 180 LOSS 0 0 608 0 0 344 561 0 0 0	GAIN 0 0 717 0 0 44 71 0 0	0 0 0 0 0 20 30 0	5 10 50 LOSS 0 0 0 0 0 0 382 128 0 0 0	0 0 0 0 0 49 16 0						4 8 4 0 21 0 399 0	798 LOSS 0 81 162 81 0 401 0 1368 0 0	0 162 191 162 0 51 0 174 0
AIR CHANGE HEAT LOSS	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED CLG EXPOSED CLG EXPOSED FLOOR 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			3852	34 30 0 0 0 436 0	50 10 500 LOSS 0 689 608 0 0 1854 0 0 0	GAIN 0 1378 717 0 0 0 236 0 0 0	0 0 0 15 0 20 125 0 0	KT/BF 16 10 160 LOSS 0 0 0 304 0 382 531 0 0 0	GAIN 0 0 0 608 0 49 68 0 0 0 0	0 45 36 0 0 249 0 0	FAM 33 10 330 LOSS 0 0 912 730 0 0 1059 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 1075 1460 0 0 1355 0 0 0 0	0 12 0 0 0 60 0 98	LAUN 8 9 72 LOSS 0 0 243 0 0 0 255 0 120 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 287 0 0 0 32 0 52 0	0 0 15 0 0 0 125 0	W/R 14 10 140 LOSS 0 0 0 304 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 3558 0 0 0 688 0 0 0 0	0 0 30 0 0 18 132 0 0	FOY 18 10 180 LOSS 0 0 608 0 0 344 561 0 0 0	GAIN 0 0 717 0 44 71 0 0	0 0 0 0 0 20 30 0	5 10 50 LOSS 0 0 0 0 0 0 382 128 0 0 0	0 0 0 0 49 16 0 0						4 8 4 0 21 0 399 0	798 LOSS 0 81 162 81 0 401 0 1368 0 0	0 162 191 162 0 51 0 174 0
AIR CHANGE HEAT GAIN DUCT LOSS DUCT GAIN HEAT GAIN POPPLE 240 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 EXPOSED WALL NET EXPOSED BMIT WALL ABOVE OR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT GAIN	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			3852	34 30 0 0 0 436 0 0	50 10 5000 LOSS 0 689 608 0 0 1854 0 0 0 0 3151	GAIN 0 1378 717 0 0 0 236 0 0 0	0 0 0 15 0 20 125 0 0	KT/BF 16 10 1600 LOSS 0 0 0 304 0 3822 531 0 0 0 0 1218	GAIN 0 0 0 608 0 49 68 0 0 0 0	0 45 36 0 0 249 0 0 0	FAM 33 10 330 LOSS 0 0 912 730 0 0 1059 0 0 0 2701	GAIN 0 0 1075 1460 0 0 1355 0 0 0 0	0 12 0 0 0 60 0 98 0	LAUN 8 9 72 LOSS 0 0 243 0 0 0 2555 0 120 0 0 0 6618	GAIN 0 287 0 0 0 32 0 52 0	0 0 15 0 0 0 125 0 0	W/R 14 10 140 LOSS 0 0 304 0 0 0 531 0 0 0 0 835	GAIN 0 0 3558 0 0 0 688 0 0 0 0	0 0 30 0 0 18 132 0 0	FOY 18 10 180 LOSS 0 0 608 0 0 344 5661 0 0 0 0 1513	GAIN 0 0 717 0 44 71 0 0	0 0 0 0 20 30 0 0	5 10 50 LOSS 0 0 0 0 0 382 128 0 0 0 0 0	0 0 0 0 49 16 0 0						4 8 4 0 21 0 399 0	133 9 798 LOSS 0 81 162 81 0 401 0 1368 0 0 4307 6400	0 162 191 162 0 51 0 174 0
DUCT LOSS DUCT GAIN HEAT GAIN PEOPLE 10 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 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 SUBTOTAL HT CASM SUB TOTAL HT GAIM LEVEL FACTOR / MULTIPLIER	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			3852	34 30 0 0 0 436 0 0	500 10 10 10 10 10 10 10 10 10 10 10 10 1	GAIN 0 1378 717 0 0 0 236 0 0 0	0 0 0 15 0 20 125 0 0	KT/BF 16 10 160 LOSS 0 0 0 304 0 382 531 0 0 0 0 1218	GAIN 0 0 0 608 0 49 68 0 0 0 0	0 45 36 0 0 249 0 0 0	FAM 33 10 330 LOSS 0 0 912 730 0 0 1059 0 0 0 2701	GAIN 0 0 1075 1460 0 0 1355 0 0 0 0	0 12 0 0 0 60 0 98 0	LAUN 8 9 9 72 LOSS 0 0 0 243 0 0 0 2555 0 0 120 0 0 0 618 0 0.26	GAIN 0 287 0 0 0 32 0 52 0	0 0 15 0 0 0 125 0 0	W/R 14 10 140 LOSS 0 0 0 0 531 0 0 0 0 835	GAIN 0 0 3558 0 0 0 688 0 0 0 0	0 0 30 0 0 18 132 0 0	FOY 18 10 180 LOSS 0 0 608 0 0 3444 5661 0 0 0 1513 0.40	GAIN 0 0 717 0 44 71 0 0	0 0 0 0 20 30 0 0	5 10 50 LOSS 0 0 0 0 0 0 382 128 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 49 16 0 0						4 8 4 0 21 0 399 0	133 9 798 LOSS 0 81 162 81 0 401 0 1368 0 0 4307 6400	0 162 191 162 0 51 0 174 0
DUCT GAIN HEAT GAIN PEOPLE 1240 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 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 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 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <t< td=""><td>ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SYUTT. DOORS NET EXPOSED WALL NET EXPOSED BMT WALL ABOVE GR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SUBTOTAL HT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS</td><td>20.3 20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6</td><td>15.0 40.5 23.9 40.5 99.8 2.4 0.5 0.4 0.5</td><td></td><td></td><td>3852</td><td>34 30 0 0 0 436 0 0</td><td>500 10 10 10 10 10 10 10 10 10 10 10 10 1</td><td>GAIN 0 1378 717 0 0 0 236 0 0 0 0 2331</td><td>0 0 0 15 0 20 125 0 0</td><td>KT/BF 16 10 160 LOSS 0 0 0 304 0 382 531 0 0 0 0 1218</td><td>GAIN 0 0 608 0 49 68 0 0 0</td><td>0 45 36 0 0 249 0 0 0</td><td>FAM 33 10 330 LOSS 0 0 912 730 0 0 1059 0 0 0 2701</td><td>GAIN 0 1075 1460 0 1355 0 0 0</td><td>0 12 0 0 0 60 0 98 0</td><td>LAUN 8 9 9 72 LOSS 0 0 0 243 0 0 0 2555 0 0 120 0 0 0 618 0 0.26</td><td>GAIN 0 0 287 0 0 0 32 0 52 0 0 0</td><td>0 0 15 0 0 0 125 0 0</td><td>W/R 14 10 140 LOSS 0 0 0 0 531 0 0 0 0 835</td><td>GAIN 0 0 3558 0 0 0 688 0 0 0</td><td>0 0 30 0 0 18 132 0 0</td><td>FOY 18 10 180 LOSS 0 0 608 0 0 3444 5661 0 0 0 1513 0.40</td><td>GAIN 0 0 7177 0 444 71 0 0 0</td><td>0 0 0 0 20 30 0 0</td><td>5 10 50 LOSS 0 0 0 0 0 0 382 128 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>0 0 0 0 49 16 0 0 0</td><td></td><td></td><td></td><td></td><td></td><td>4 8 4 0 21 0 399 0</td><td>133 9 798 LOSS 0 81 162 81 0 401 0 1368 0 0 4307 6400</td><td>0 162 191 162 0 51 0 174 0 0</td></t<>	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SYUTT. DOORS NET EXPOSED WALL NET EXPOSED BMT WALL ABOVE GR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED CLG EXPOSED FLOOR 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	15.0 40.5 23.9 40.5 99.8 2.4 0.5 0.4 0.5			3852	34 30 0 0 0 436 0 0	500 10 10 10 10 10 10 10 10 10 10 10 10 1	GAIN 0 1378 717 0 0 0 236 0 0 0 0 2331	0 0 0 15 0 20 125 0 0	KT/BF 16 10 160 LOSS 0 0 0 304 0 382 531 0 0 0 0 1218	GAIN 0 0 608 0 49 68 0 0 0	0 45 36 0 0 249 0 0 0	FAM 33 10 330 LOSS 0 0 912 730 0 0 1059 0 0 0 2701	GAIN 0 1075 1460 0 1355 0 0 0	0 12 0 0 0 60 0 98 0	LAUN 8 9 9 72 LOSS 0 0 0 243 0 0 0 2555 0 0 120 0 0 0 618 0 0.26	GAIN 0 0 287 0 0 0 32 0 52 0 0 0	0 0 15 0 0 0 125 0 0	W/R 14 10 140 LOSS 0 0 0 0 531 0 0 0 0 835	GAIN 0 0 3558 0 0 0 688 0 0 0	0 0 30 0 0 18 132 0 0	FOY 18 10 180 LOSS 0 0 608 0 0 3444 5661 0 0 0 1513 0.40	GAIN 0 0 7177 0 444 71 0 0 0	0 0 0 0 20 30 0 0	5 10 50 LOSS 0 0 0 0 0 0 382 128 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 49 16 0 0 0						4 8 4 0 21 0 399 0	133 9 798 LOSS 0 81 162 81 0 401 0 1368 0 0 4307 6400	0 162 191 162 0 51 0 174 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 EXPOSED WALL NET EXPOSED WALL NET EXPOSED CLG EXPOSED CLG EXPOSED FLOOR BASEMENT/CRWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL 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	15.0 40.5 23.9 40.5 99.8 2.4 0.5 0.4 0.5			3852	34 30 0 0 0 436 0 0	50 10 500 LOSS 0 689 608 0 0 0 1854 0 0 0 0 3151	GAIN 0 1378 717 0 0 0 236 0 0 0 0 2331	0 0 0 15 0 20 125 0 0	KT/BF 16 10 1600 LOSS 0 0 0 3044 0 3822 5531 0 0 0 0 1218	GAIN 0 0 608 0 49 68 0 0 0	0 45 36 0 0 249 0 0 0	FAM 33 10 330 LOSS 0 0 912 730 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 1075 1460 0 1355 0 0 0	0 12 0 0 0 60 0 98 0	T2 LOSS 0 0 0 2243 0 0 0 0 1220 0 0 0 618 0 0.26 160	GAIN 0 0 287 0 0 0 32 0 52 0 0 0	0 0 15 0 0 0 125 0 0	W/R 14 10 140 LOSS 0 0 304 0 0 0 531 0 0 0 0 835	GAIN 0 0 3558 0 0 0 688 0 0 0	0 0 30 0 0 18 132 0 0	FOY 18 10 180 LOSS 0 0 608 561 0 0 0 1513 0.40 603	GAIN 0 0 7177 0 444 71 0 0 0	0 0 0 0 20 30 0 0	5 10 50 LOSS 0 0 0 0 0 0 382 128 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 49 16 0 0 0						4 8 4 0 21 0 399 0	133 9 798 LOSS 0 81 162 81 0 401 0 1368 0 0 4307 6400 1.03 6589	0 162 191 162 0 51 0 174 0 0
HEAT GAIN APPLIANCES/LIGHTS	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BINT WALL ABOVE OR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS 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	15.0 40.5 23.9 40.5 99.8 2.4 0.5 0.4 0.5			3852	34 30 0 0 0 436 0 0	50 10 500 LOSS 0 689 608 0 0 0 1854 0 0 0 0 3151	GAIN 0 1378 717 0 0 0 236 0 0 0 0 2331	0 0 0 15 0 20 125 0 0	KT/BF 16 10 1600 LOSS 0 0 0 3044 0 3822 5531 0 0 0 0 1218	GAIN 0 0 0 608 0 49 68 0 0 0	0 45 36 0 0 249 0 0 0	FAM 33 10 330 LOSS 0 0 912 730 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 1075 1460 0 0 135 0 0 0 0 2669	0 12 0 0 0 60 0 98 0	T2 LOSS 0 0 0 2243 0 0 0 0 1220 0 0 0 618 0 0.26 160	GAIN 0 0 287 0 0 0 32 0 52 0 0 3711	0 0 15 0 0 0 125 0 0	W/R 14 10 140 LOSS 0 0 304 0 0 0 531 0 0 0 0 835	GAIN 0 0 3358 0 0 68 0 0 0	0 0 30 0 0 18 132 0 0	FOY 18 10 180 LOSS 0 0 608 561 0 0 0 1513 0.40 603	GAIN 0 0 7117 0 0 44 71 0 0 0	0 0 0 0 20 30 0 0	5 10 50 LOSS 0 0 0 0 0 0 382 128 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 49 16 0 0 0						4 8 4 0 21 0 399 0	133 9 798 LOSS 0 81 162 81 0 401 0 1368 0 0 4307 6400 1.03 6589	0 162 191 162 0 51 0 174 0 0
TOTAL HT LOSS BTU/H 4406 1702 3776 778 1168 2116 713 12989	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING 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 SUB TOTAL HT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT GAIN DUCT LOSS DUCT GAIN	LOSS 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 40.5 99.8 2.4 0.5 0.4 0.5			3852	34 30 0 0 0 436 0 0 0	50 10 500 LOSS 0 689 608 0 0 0 1854 0 0 0 0 3151	GAIN 0 1378 717 0 0 0 236 0 0 0 0 2331 90 0	0 0 0 15 0 20 125 0 0 0	KT/BF 16 10 1600 LOSS 0 0 0 3044 0 3822 5531 0 0 0 0 1218	GAIN 0 0 0 608 0 49 68 0 0 0	0 45 36 0 0 249 0 0 0	FAM 33 10 330 LOSS 0 0 912 730 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 1075 1460 0 0 135 0 0 0 0	0 12 0 0 0 60 0 98 0 0	T2 LOSS 0 0 0 2243 0 0 0 0 1220 0 0 0 618 0 0.26 160	GAIN 0 0 287 0 0 32 0 52 0 0	0 0 15 0 0 125 0 0 0	W/R 14 10 140 LOSS 0 0 304 0 0 0 531 0 0 0 0 835	GAIN 0 0 0 3558 0 0 0 0 68 0 0 0 426 17 0	0 0 30 0 0 18 132 0 0 0	FOY 18 10 180 LOSS 0 0 608 561 0 0 0 1513 0.40 603	GAIN 0 0 7717 0 0 44 711 0 0 0 0	0 0 0 0 0 20 30 0 0 0	5 10 50 LOSS 0 0 0 0 0 0 382 128 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 49 16 0 0 0						4 8 4 0 21 0 399 0 0 0	133 9 798 LOSS 0 81 162 81 0 401 0 1368 0 0 4307 6400 1.03 6589	0 162 191 162 0 51 0 174 0 0 740
	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SYUTT. DOORS NET EXPOSED WALL NET EXPOSED BMT WALL ABOVE GR EXPOSED CLG EXPOSED CLG EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SUBTOTAL HT LOSS SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS OUT GAIN DUCT LOSS DUCT GAIN HEAT GAIN PEOPLE	LOSS 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 40.5 99.8 2.4 0.5 0.4 0.5			3852	34 30 0 0 0 436 0 0 0	50 10 500 LOSS 0 689 608 0 0 0 1854 0 0 0 0 3151	GAIN 0 1378 717 0 0 0 236 0 0 0 0 2331 90 0 0	0 0 0 15 0 20 125 0 0 0	KT/BF 16 10 1600 LOSS 0 0 0 3044 0 3822 5531 0 0 0 0 1218	GAIN 0 0 0 608 0 49 68 0 0 0 0 724 28 0 0 0	0 45 36 0 0 249 0 0 0	FAM 33 10 330 LOSS 0 0 912 730 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 1075 1460 0 0 135 0 0 0 12669 104 0 0	0 12 0 0 0 60 0 98 0 0	T2 LOSS 0 0 0 2243 0 0 0 0 1220 0 0 0 618 0 0.26 160	GAIN 0 0 2887 0 0 0 32 0 52 0 0 0 3711 144 0 0 0	0 0 15 0 0 125 0 0 0	W/R 14 10 140 LOSS 0 0 304 0 0 0 531 0 0 0 0 835	GAIN 0 0 0 3558 0 0 0 0 0 0 4266 177 0 0 0	0 0 30 0 0 18 132 0 0 0	FOY 18 10 180 LOSS 0 0 608 561 0 0 0 1513 0.40 603	GAIN 0 0 0 7117 0 0 44 471 0 0 0 0 8332 0 0 0	0 0 0 0 0 20 30 0 0 0	5 10 50 LOSS 0 0 0 0 0 382 128 0 0 0 0 0 510 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 49 16 0 0 0						4 8 4 0 21 0 399 0 0 0	133 9 798 LOSS 0 81 162 81 0 401 0 1368 0 0 4307 6400 1.03 6589	0 162 191 162 0 51 0 174 0 0 0
TOTAL HT GAIN x 1.3 BTU/H 3775 1605 3605 1128 575 1123 714 1 1627	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED CLG EXPOSED CLG EXPOSED CLG EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS AIR CHANGE HEAT GAIN DUCT LOSS DUCT GAIN HEAT GAIN PEOPLE HEAT GAIN APPLIANCES/LIGHTS	LOSS 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 40.5 99.8 2.4 0.5 0.4 0.5			3852	34 30 0 0 0 436 0 0 0	50 10 500 LOSS 0 689 608 0 0 0 0 1854 0 0 0 0 3151 0.40 1255	GAIN 0 1378 717 0 0 0 236 0 0 0 0 2331 90 0 0	0 0 0 15 0 20 125 0 0 0	KT/BF 16 10 160 LOSS 0 0 304 0 382 5511 0 0 0 1218 0 0 0 0 0 0 1 1218 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 0 608 0 49 68 0 0 0 0 724 28 0 0 0	0 45 36 0 0 249 0 0 0	FAM 33 10 330 LOSS 0 0 912 730 0 0 1059 0 0 2701 0.40 1075	GAIN 0 0 1075 1460 0 0 135 0 0 0 12669 104 0 0	0 12 0 0 0 60 0 98 0 0	LAUN 8 9 72 LOSS 0 0 0 243 0 0 0 2555 0 120 0 0 0 6618 0 0.266 160 0	GAIN 0 0 2887 0 0 0 32 0 52 0 0 0 3711 144 0 0 0	0 0 15 0 0 125 0 0 0	W/R 14 10 1440 LOSS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 0 3558 0 0 0 0 0 4266 177 0 0 0	0 0 30 0 0 18 132 0 0 0	FOY 18 10 180 LOSS 0 0 0 3444 561 0 0 0 0 1513 0.440 603 0	GAIN 0 0 0 7117 0 0 44 471 0 0 0 0 8332 0 0 0	0 0 0 0 0 20 30 0 0 0	5 10 50 LOSS 0 0 0 0 0 0 382 128 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 49 16 0 0 0						4 8 4 0 21 0 399 0 0 0	133 9 798 LOSS 0 81 162 81 0 1358 0 0 0 4307 64400 0 1.03 6589 0	0 162 191 162 0 51 0 174 0 0 0
	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BMIT WALL ABOVE OR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT GAIN DUCT LOSS DUCT GAIN HEAT GAIN PEOPLE HEAT GAIN APPLIANCES/LIGHTS TOTAL HT LOSS BTU/H	LOSS 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 40.5 99.8 2.4 0.5 0.4 0.5			3852	34 30 0 0 0 436 0 0 0	50 10 500 LOSS 0 689 608 0 0 0 0 1854 0 0 0 0 3151 0.40 1255	GAIN 0 1378 717 0 0 236 0 0 0 0 0 2331 90 0 482	0 0 0 15 0 20 125 0 0 0	KT/BF 16 10 160 LOSS 0 0 304 0 382 5511 0 0 0 1218 0 0 0 0 0 0 1 1218 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 0 0 608 0 49 688 0 0 0 0 0 724 28 0 0 482	0 45 36 0 0 249 0 0 0	FAM 33 10 330 LOSS 0 0 912 730 0 0 1059 0 0 2701 0.40 1075	GAIN 0 0 1075 1460 0 0 1355 0 0 0 2669 1044 0 0 0 0	0 12 0 0 0 60 0 98 0 0	LAUN 8 9 72 LOSS 0 0 0 243 0 0 0 2555 0 120 0 0 0 6618 0 0.266 160 0	GAIN 0 0 287 0 0 32 0 52 0 0 371 14 0 0 482	0 0 15 0 0 125 0 0 0	W/R 14 10 1440 LOSS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 0 3558 0 0 0 688 0 0 0 0 426 17 0 0 0 0	0 0 30 0 0 18 132 0 0 0	FOY 18 10 180 LOSS 0 0 0 3444 561 0 0 0 0 1513 0.440 603 0	GAIN 0 0 7717 0 0 444 771 0 0 0 832 0 0 0 0	0 0 0 0 0 20 30 0 0 0	5 10 50 LOSS 0 0 0 0 0 382 128 0 0 0 0 510 0 0 0 713	0 0 0 0 49 16 0 0 0 0 0 49 49 49 49 49 49 49 49 49 49 49 49 49						4 8 4 0 21 0 399 0 0 0	133 9 798 LOSS 0 81 162 81 0 1358 0 0 0 4307 64400 0 1.03 6589 0	0 162 191 162 0 51 0 174 0 0 0

TOTAL HEAT GAIN BTU/H:

28203

TONS: 2.35

LOSS DUE TO VENTILATION LOAD BTU/H: 1243

STRUCTURAL HEAT LOSS: 39866

TOTAL COMBINED HEAT LOSS BTU/H: 41109

Mehal Oxombe.



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		: BARLAS : GREEN		MES					WILLOW				DATE:	Aug-22			GFA:	2330	LO#	98656				
AIR FLOW RATE CFM	928 39,866 23.28			LING CFM EAT GAIN RATE CFM	28,045 33.09		а	furr a/c coil vailable	pressure nace filter pressure pressure s/a & r/a	0.6 0.05 0.2 0.35						(603BNA SPEED LOW	GOODMA 60	AN	OUTPUT	AFUE = (BTU/H) = (BTU/H) =	60,000 57,600	
RUN COUNT S/A	4th 0	3rd 0	2nd 12	1st 8	Bas 4		pla	enum pre	ssure s/a	0.18		r/a	pressure	0.17				EDLOW MEDIUM	928		DESI	GN CFM = CFM @ .	928 6 " E.S.P.	=
R/A	0	0	4	1	1		max	s/a dif pr	ress. loss	0.01		grille pre	ess. Loss	0.02 0.15				IM HIGH	1017 1131	-	EMPERAT			°F
All S/A diffusers 4"x10" unle All S/A runs 5"Ø unless not				Jul.			min auju	isteu pre	ssure s/a	0.17	auj	usteu pre	ssure r/a					HIGH		<u>'</u>		UKE KISE		-
RUN # ROOM NAME	1 MBR	2 ENS	3 BATH	4 BED-2	5 BED-3	6 MEDIA	7 BATH	8 BED-2	9 BED-3	10 MBR	11 L/D	12 WIC	13 L/D	14 FAM	15 FAM	16 KT/BF	17 LAUN	18 W/R	19 FOY	20 MUD	21 BAS	22 BAS	23 BAS	24 BAS
RM LOSS MBH.	1.49	1.32	0.85	0.94	1.65	0.39	0.85	0.94	1.65	1.49	2.20	0.67	2.20	1.89	1.89	1.70	0.78	1.17	2.12	0.71	3.25	3.25	3.25	3.25
CFM PER RUN HEAT RM GAIN MBH.	35 1.93	31 1.18	20 0.58	22 1.20	38 2.01	9 0.81	20 0.58	22 1.20	38 2.01	35 1.93	51 1.89	15 0.46	51 1.89	44 1.80	44 1.80	40 1.61	18 1.13	27 0.58	49 1.12	17 0.71	76 0.41	76 0.41	76 0.41	76 0.41
CFM PER RUN COOLING	64	39	19	40	67	27	19	40	67	64	62	15	62	60	60	53	37	19	37	24	13	13	13	13
ADJUSTED PRESSURE	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
ACTUAL DUCT LGH. EQUIVALENT LENGTH	50 180	40 180	42 150	47 210	55 180	37 190	35 220	49 190	68 220	40 140	45 110	33 220	42 120	26 100	33 90	25 110	46 150	33 90	24 140	12 150	29 90	18 110	22 130	39 120
TOTAL EFFECTIVE LENGTH	230	220	192	257	235	227	255	239	288	180	155	253	162	126	123	135	196	123	164	162	119	128	152	159
ADJUSTED PRESSURE ROUND DUCT SIZE	0.07 6	0.08 4	0.09 4	0.07 5	0.07 6	0.08 4	0.07 4	0.07 5	0.06 6	0.1 5	0.11 5	0.07 4	0.11 5	0.14 5	0.14 5	0.13 5	0.09 4	0.14 4	0.1 4	0.11 4	0.14 5	0.13 5	0.11 5	0.11 5
HEATING VELOCITY (ft/min)	178	356	229	162	194	103	229	162	194	257	374	172	374	323	323	294	207	310	562	195	558	558	558	558
COOLING VELOCITY (ft/min) OUTLET GRILL SIZE	326 4X10	447 3X10	218 3X10	294 3X10	342 4X10	310 3X10	218 3X10	294 3X10	342 4X10	470 3X10	455 3X10	172 3X10	455 3X10	441 3X10	441 3X10	389 3X10	424 3X10	218 3X10	424 3X10	275 3X10	95 3X10	95 3X10	95 3X10	95 3X10
TRUNK	C C	C	B	A	A	B	В	A	A	C	A	В	A	D	D	C	B	B	В	D	D	D	B	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 ROUND DUCT SIZE HEATING VELOCITY (ft/min) COOLING VELOCITY (ft/min)																								
OUTLET GRILL SIZE TRUNK																								
SUPPLY AIR TRUNK SIZE																	RETURN A	ND TOUNI	(CIZE					
SOFFET AIR TRONK SIZE	TRUNK	STATIC	ROUND	RECT			VELOCITY			TRUNK	STATIC	ROUND	RECT			VELOCITY	INE I OINIY A	TRUNK	STATIC	ROUND	RECT			VELOCITY
TRUNK A	сғм 298	PRESS. 0.06	9.6	DUСТ 12	х	8	(ft/min) 447		TRUNK G	CFM O	PRESS. 0.00	DUCT 0	DUCT 0	х	8	(ft/min)	TRUNK O	CFM O	PRESS. 0.05	DUCT 0	DUCT 0	x	8	(ft/min)
TRUNK B	532	0.06	11.9	16	x	8	599		TRUNK H	Ō	0.00	0	Ö	x	8	Ö	TRUNK P	0	0.05	0	0	x	8	0
TRUNK C TRUNK D	141 398	0.07 0.07	7 10.3	8 12	X X	8 8	317 597		TRUNK I TRUNK J	0	0.00	0	0	X X	8 8	0	TRUNK Q TRUNK R	0	0.05 0.05	0	0	X X	8 8	0
TRUNK E	0	0.00	0	0	х	8	0		TRUNK K	0	0.00	0	Ö	x	8	Ö	TRUNK S	0	0.05	Ö	0	x	8	0
TRUNK F	0	0.00	0	0	Х	8	0		TRUNK L	0	0.00	0	0	Х	8	0	TRUNK T	0	0.05 0.05	0	0 0	X X	8 8	0 0
DETUDN AID #				4													TRUNK V	0	0.05	0	0	х	8	0
RETURN AIR #	1 0	2 0	3 0	4 0	5 0	0	0	0	0	0	0	0	0	0	0	BR	TRUNK W TRUNK X	0 928	0.05 0.05	0 15.3	0 28	X X	8 8	0 597
AIR VOLUME	120	120	115	115	330	0	0	0	0	0	0	0	0	0	0	128	TRUNK Y	350	0.05	10.6	14	x	8	450
PLENUM PRESSURE ACTUAL DUCT LGH.	0.15 65	0.15 49	0.15 55	0.15 61	0.15 20	0.15 1	0.15 1	0.15 1	0.15 1	0.15 1	0.15 1	0.15 1	0.15 1	0.15 1	0.15 1	0.15 14	TRUNK Z DROP	0 928	0.05 0.05	0 15.3	0 24	X X	8 10	0 557
EQUIVALENT LENGTH	140	185	225	230	135	0	0	0	0	0	0	0	0	0	0	135								
TOTAL EFFECTIVE LH ADJUSTED PRESSURE	205 0.07	234 0.06	280 0.05	291 0.05	155 0.10	1 14.80	1 14.80	1 14.80	1 14.80	1 14.80	1 14.80	1 14.80	1 14.80	1 14.80	1 14.80	149 0.10								
ROUND DUCT SIZE	6.6	6.8	7	7	8.8	0	0	0	0	0	0	0	0	0	0	6.1								
INLET GRILL SIZE	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	0 X	8 X								
INLET GRILL SIZE	14	14	14	14	30	0	0	0	0	0	0	0	0	0	0	14								

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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

TYPE: WILLOW 12 SITE NAME: BARLASSINA

98656 LO#

RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

COMBUSTION APPLIANCES	9.32.3.1(1)	SUPPLEMENTAL VE	NTILATION CAPACITY		9.32.3.5.
a)		Total Ventilation Capa	acity	159	cfm
b) Positive venting induced draft (except fireplaces)		Less Principal Ventil.	Capacity	63.6	cfm
c) Natural draft, B-vent or induced draft gas fireplace		Required Supplement	tal Capacity	95.4	cfm
d) Solid Fuel (including fireplaces)					
e) No Combustion Appliances		PRINCIPAL EXHAUS	ST FAN CAPACITY		
		Model:	VANEE V150H	Location:	BSMT
HEATING SYSTEM		63.6	cfm		✓ HVI Approved
Forced Air Non Forced Air		PRINCIPAL EXHAUS	T HEAT LOSS CALCULATION ΔT °F	FACTOR	% LOSS
Floris Occupation		63.6 CFM	X 72 F X	1.08	X 0.25
Electric Space Heat		SUPPLEMENTAL FA		ALLING CONT	
HOUSE TYPE	9.32.1(2)	Location ENS	Model BY INSTALLING CONTRACTOR	cfm 50	HVI Sones ✓ 3.5
	0.02.1(2)	BATH	BY INSTALLING CONTRACTOR	50	✓ 3.5
Type a) or b) appliance only, no solid fuel		W/R	BY INSTALLING CONTRACTOR	50	✓ 3.5
II Type I except with solid fuel (including fireplace	es)			50	
III Any Type c) appliance		HEAT RECOVERY V Model:	ENTILATOR VANEE V150H		9.32.3.11.
		150	cfm high	35	cfm low
IV Type I, or II with electric space heat		75	% Sensible Efficiency		✓ HVI Approved
Other: Type I, II or IV no forced air			@ 32 deg F (0 deg C)		
		LOCATION OF INST.	ALLATION		
SYSTEM DESIGN OPTIONS	O.N.H.W.P.	Lot:		Concession	
1 Exhaust only/Forced Air System					
2 HRV with Ducting/Forced Air System		Township		Plan:	
3 HRV Simplified/connected to forced air system		Address			
4 HRV with Ducting/non forced air system		Roll #		Building Perm	nit#
		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 <u>2</u> @ 10.6 cfm <u>21.2</u>	cfm	Telephone #:		Fax#:	
Kitchen & Bathrooms 4 @ 10.6 cfm 42.4	cfm	INSTALLING CONTR	RACTOR		
Other Rooms <u>5</u> @ 10.6 cfm <u>53.0</u>	cfm	Name:			
Table 9.32.3.A. TOTAL 159.0	cfm	Address:			
		City:		_	
PRINCIPAL VENTILATION CAPACITY REQUIRED	9.32.3.4.(1)			- "	
1 Bedroom 31.8	cfm	Telephone #:		Fax #:	
2 Bedroom 47.7	cfm		nis ventilation system has been o	designed	
3 Bedroom 63.6	cfm	in accordance with the Name:	e Ontario Building Code. HVAC Designs Ltd.		
4 Bedroom 79.5	cfm	Signature:	Michael	I Ofounde	
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 QU. INDIVIDUAL BCIN: 19669 Michael O'R Michael O'R		PROPRIATE CATEGORY AS AN "I	OTHER DESIGNER" UNDER DIVISION C	, 3.2.5 OF THE BUI	LDING CODE.



			CSA F28	30-12 Residential Hea	eat Loss and Heat Gain Calculations								
			Form	ula Sheet (For Air Lea	kage / Ventiliation C	alculation)							
LO#: 9	8656	Model: WILLOW 12			r: GREENPARK HOMES	,			Date:	2022-08-31			
		Volume Calculatio	n				Air Change & Delt	a T Data					
										_			
House Volume						WINTER NA	TURAL AIR CHANG	E RATE	0.319				
Level	Floor Area (ft²)	Floor Height (ft)	Volume (ft³)			SUMMER NA	TURAL AIR CHANG	GE RATE	0.085				
Bsmt	1088	9	9792										
First	1088	10	10880			_							
Second	1242	9	11178					mperature Diff					
Third	0	9	0				Tin °C	Tout °C	ΔT °C	ΔT°F			
Fourth	0	9	0			Winter DTDh	22	-18	40	72			
		Total:	31,850.0 ft ³			Summer DTDc	24	29	5	9			
		Total:	901.9 m³										
	F 2 2	1 Haat Laar dua ta A:	· I salvasa		6366	Sanaible Cain due	4- Air II						
	5.2.3	.1 Heat Loss due to Ai	Leakage			0.2.0 3	Sensible Gain due	to Air Leakage					
		V_{r}					V.						
	$HL_{airb} = LR_{airh} \times \frac{V_b}{3.6} \times DTD_h \times 1.2$					$G_{salb} = LR_{airc} \times$	$(\frac{v_b}{2c} \times DTD_c)$	× 1.2					
0.040	5.0						0.0			120111			
0.319	x 250.53	x 40°C	x <u>1.2</u>	= 3862 W	= 0.085	x 250.53	x 5°C	x <u>1.2</u>	_ =	130 W			
				40470 0: //						444 81 /1			
				= 13178 Btu/h	<u> </u>				=	444 Btu/h			
	5 2 3 2 Has	it Loss due to Mechan	ical Ventilation			6 2 7 Ser	nsible heat Gain d	ue to Ventilatio	n				
	5.2.5.2 1100	it Loss due to Mechan	ical ventuation			0.2.7 301	isibic ficat dam a	uc to ventuatio	,,,,				
	HI =	$PVC \times DTD_h \times 1$	$08 \times (1 - F)$		HI.	$v_{airb} = PVC \times D'$	TD, × 1.08 ×	(1 - F)					
	II Lvairb —	IVC X DID _h X 1	.00 × (1 L)		11.20	vairb - IVC X D	$D_h \times 1.00 \times$	(1 2)					
C4 CEN4	72.05	1.00	0.25	4242 Dt. //	C4.05N4	0.85	1.00	0.25		450 Dt. /b			
64 CFM	x <u>72 °F</u>	x <u>1.08</u>	x <u>0.25</u>	= 1243 Btu/h	64 CFM	X 97	x <u>1.08</u>	x <u>0.25</u>	- =	158 Btu/h			
			5.2.3.3 Calcula	ion of Air Change Heat	Loss for Each Room (Floo	or Multiplier Section)							
		***				(, , , , , , , , , , , , , , , , , , ,	12						
		HL_{ai}	$_{rr}$ = Level Facto	$or \times HL_{airbv} \times \{(H_{airbv}) \times \{$	$L_{agcr} + HL_{bgcr}) \div$	$(HL_{agclevel} + HL_{l}$	bgclevel)}						
				HLairve Air Leakage +			1						
		Level	Level Factor (LF)	Ventilation Heat Loss	Level Conductive Heat								
		Level	Level ractor (Li)		Loss: (HL _{clevel})	HLairbv / H	HLlevel)						
		1	0.5	(Btu/h)	6,400	1.03	0						
		2	0.3		9,927	0.39							
		3	0.2	13,178	10,190	0.35							
		4	0.2	13,170	,				Michael O'R	ourko			
		5	0		0	0.00							
					U	0.00	U		BCIN# 19669				
	*HLairbv = Air leakage heat loss + ventilation heat loss								mel 1	ul Oxombe.			
		*For a balan	ed or supply only ve	ntilation system HLairve	= 0				/m/zem	Maurice.			

NOT THE GRANTING OF A PERMIT NOR REVIEWING OF SPECS & DRAWINGS NOR INSPECTIONS MADE DURING INSTALLATION BY THE OFFICIAL HAVING JURISDICTION SHALL RELIEVE THE

Tel: 905 619 2300 Fay: 905 619 2375 OWNER FROM REQUIREMENTS OF THE ONTARIO BUILDING

Tel: 905.619.2300 Fax: 905.619.2375

CODE AND ANY OTHER REFERENCED REQUIREME**W**€b: www.hvacdesigns.ca E-mail: info@hvacdesigns.ca

HEAT LOSS AND GAIN SUMMARY SHEET

MODEL:	WILLOW 12			BUILDER: GREENPARK HOMES	<u> </u>
SFQT:	2330	LO#	98656	SITE: BARLASSINA	
DESIGN A	ASSUMPTIONS				
HEATING			°F	COOLING	°F
OUTDOO	R DESIGN TEMP.		0	OUTDOOR DESIGN TEMP.	84
INDOOR	DESIGN TEMP.		72	INDOOR DESIGN TEMP. (MAX 75°F)	75
				WINDOW SHGC	0.50
BUILDING	G DATA				
ATTACHN	ΛΕΝΤ:	,	ATTACHED	# OF STORIES (+BASEMENT):	3
FRONT FA	ACES:		EAST	ASSUMED (Y/N):	Υ
AIR CHAN	IGES PER HOUR:		3.57	ASSUMED (Y/N):	Υ
AIR TIGH	TNESS CATEGORY:		AVERAGE	ASSUMED (Y/N):	Υ
WIND EX	POSURE:	S	HELTERED	ASSUMED (Y/N):	Υ
HOUSE V	OLUME (ft³):		31850.0	ASSUMED (Y/N):	Υ
INTERNA	L SHADING:	BLINDS/	CURTAINS	ASSUMED OCCUPANTS:	4
INTERIOR	R LIGHTING LOAD (Btu/h	n/ft²):	1.27	DC BRUSHLESS MOTOR (Y/N):	Υ
FOUNDA	TION CONFIGURATION		BCIN_1	DEPTH BELOW GRADE:	6.0 ft
LENGTH:	57.0 ft	WIDTH:	26.0 ft	EXPOSED PERIMETER:	133.0 ft

2012 OBC - COMPLIANCE PACKAGE		
	Compliance	Package
Component	A	1
	Nominal	Min. Eff.
Ceiling with Attic Space Minimum RSI (R)-Value	60	59.22
Ceiling Without Attic Space Minimum RSI (R)-Value	31	27.65
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

We	eather Sta	tion Description							
Province:	Ontario								
Region:	Cambridg	ambridge							
	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):	7.9								
Exposed Perimeter (m):	40.5								
Wall Height (m):	2.7								
Depth Below Grade (m):	1.83	Insulation Configuration							
Window Area (m²):	1.5								
Door Area (m²):	2.0								
	Radia	ant Slab							
Heated Fraction of the Slab:	0								
Fluid Temperature (°C):	33								
	Desigr	n Months							
Heating Month	1								
	Founda	tion Loads							
Heating Load (Watts):		1262							

TYPE: WILLOW 12 **LO#** 98656





HVAC Designs Ltd. 375 Finley Ave, Suite 202 Ajax ON, L1S 2E2 905-619-2300

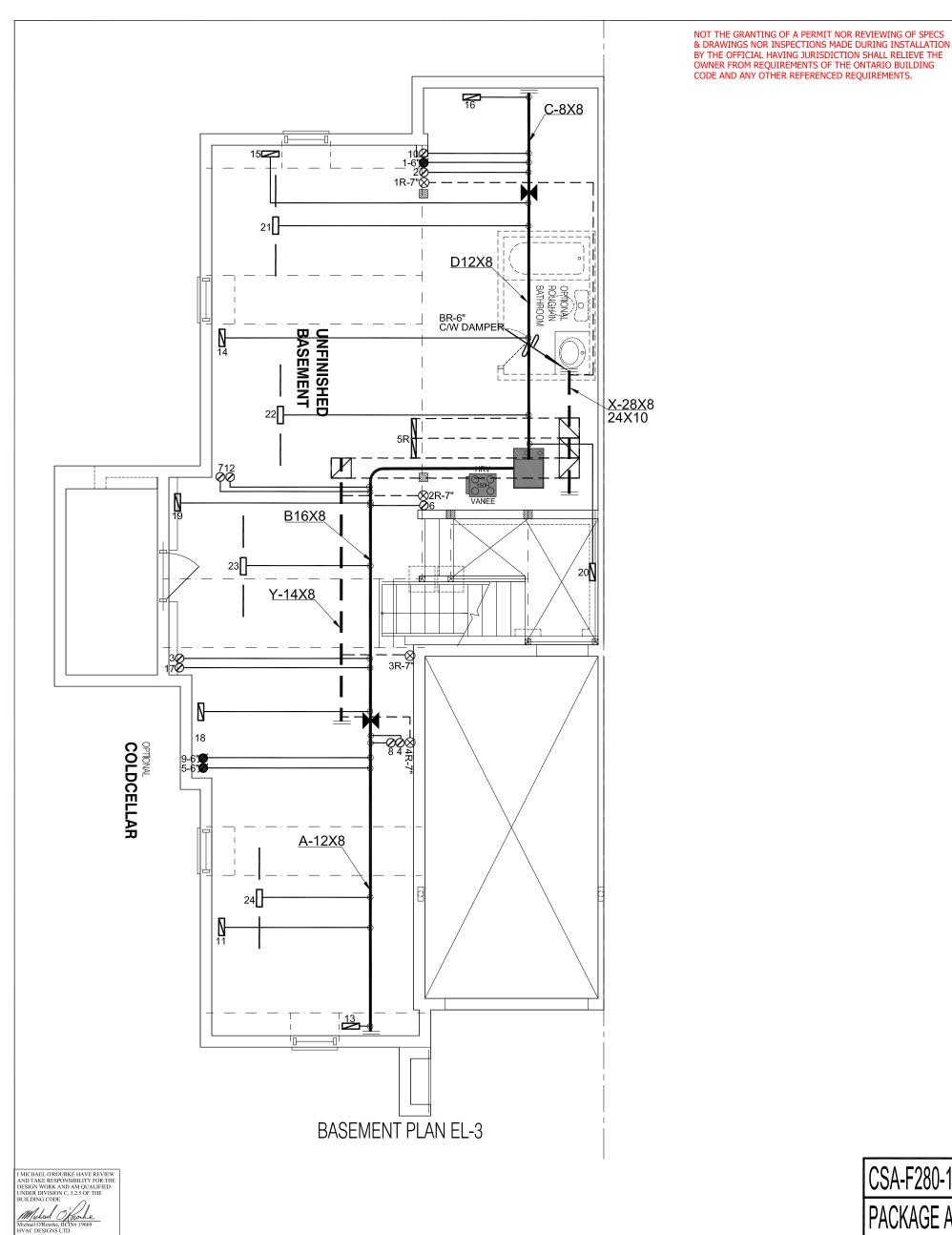
Air Infiltration Residential Load Calculator

Supplemental tool for CAN/CSA-F280

Weather Stati	on Des	cripti	ion		
Province:	Ontar	io			
Region:	Camb	ridge			
Weather Station Location:	Open	flat te	rrain, g	grass	
Anemometer height (m):	10				
Local S	hieldin	g			
Building Site:	Subur	ban, fo	orest		
Walls:	Heavy	/			
Flue:	Heavy	/			
Highest Ceiling Height (m):	6.71				
Building Co	nfigura	ation			
Type:	Semi				
Number of Stories:	Two				
Foundation:	Full				
House Volume (m³):	901.9				
Air Leakage	/Venti	atior	1		
Air Tightness Type:	Prese	nt (196	61-) (3.	57 ACH	⊣)
Custom BDT Data:	ELA @	9 10 Pa	Э.		1202.2 cm ²
	3.57				ACH @ 50 Pa
Mechanical Ventilation (L/s):	To	tal Sup	ply		Total Exhaust
		30.0			30.0
Flue	Size				
Flue #:	#1	#2	#3	#4	
Diameter (mm):	0	0	0	0	
Natural Infil	tration	Rate	:S		
Heating Air Leakage Rate (ACH/H)):	C	.31	9	
Cooling Air Leakage Rate (ACH/H)	:	C	.08	5	

TYPE: WILLOW 12 LO# 98656





			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	<u> </u>	30"x8" RETURN AIR GRILLE	\bowtie	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 122 Units 37 to 42

2330 sqft WILLOW 12

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. FAN SPEED

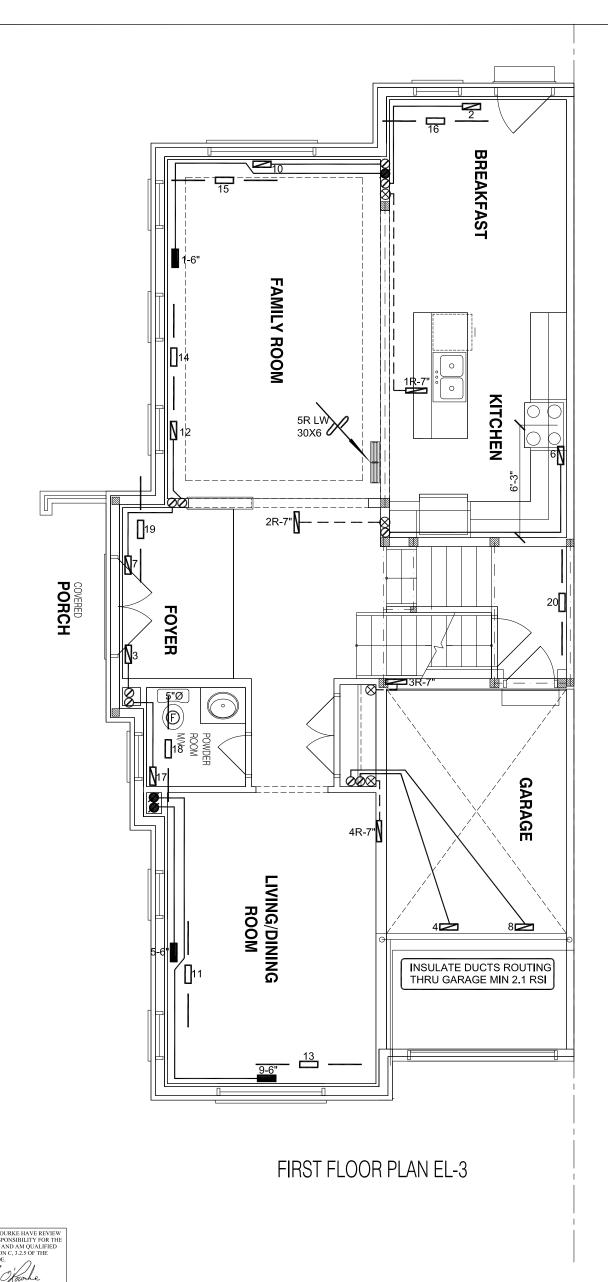
	HEAIL			# OF RUNS	S/A	R/A	FANS	Sile
		UN I T DATA	١	3RD FLOOR				
	MAKE	GOODMAN		2ND FLOOR	12	4	3	
	MODEL GM	IEC960603B	NA	1ST FLOOR	8	1	2	
	INPUT	60	MBTU/H	BASEMENT	4	1	0	Date
	OUTPUT		MBTU/H	ALL S/A DIFFU:	SERS	4 "x10)"	Scal
		57.6		UNLESS NOTE	D OTH	HERW	ISE	
	COOLING	2.5	TONS	ON LAYOUT. A				
•		2.5		UNLESS NOTE	D OTH	∃ERW	ISE	

928

ON LAYOUT, UNDERCUT

DOORS 1" min. FOR R/A

ıs	Sheet	Γltle									
_		BASEMENT									
		HI	EATING								
		L	AYOUT								
	Date	Д	JUG/2022								
	Scale	3	/16" = 1'-0"								
Ø		ВС	CIN# 19669								
	LC)#	98656								



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CSA-F280-12 PACKAGE A1

HVAC LEGEND								3.		
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	2.		
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	SUPPLY AIR GRILLE 6" BOOT	0	SUPPLY AIR STACK FROM 2nd FLOOR	<u> </u>	30"x8" RETURN AIR GRILLE	\bowtie	RETURN AIR STACK 2nd FLOOR	No.	Description	Date
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Cllent

GREENPARK HOMES

Project Name

BARLASSINA CAMBRIDGE, ONTARIO

Block 122 Units 37 to 42

WILLOW 12 2330 sqft



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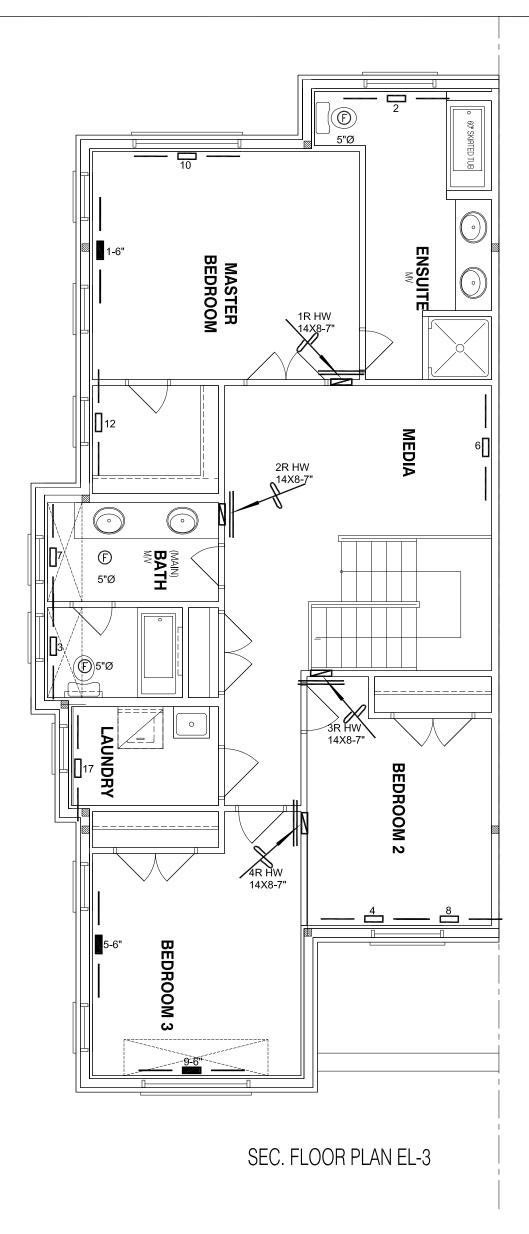
FIRST FLOOR HEATING

LAYOUT
Date AUG/2022

3/16" = 1'-0" BCIN# 19669

LO# 98656

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SECOND FLOOR

HEATING LAYOUT

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

BCIN# 19669

98656 LO#

Project Name