

TOTAL HEAT GAIN BTU/H:

42101

SITE NAME:	LECCO R	DGE					LOT	149							DATE: Jun-	7		v	WINTE	R NAT	URAL	AIR CH	IANGE RATE 0.316	HEAT LOSS	ΔT°F.	72		c	CSA-F280-12
BUILDER:			MES			TYI		NIPER 7			GI	A: 3137			LO# 7404								IANGE RATE 0.108	HEAT GAIN					IERGYSTAF
ROOM USE			MBR			ENS		WIC			BED-2		BED-3		BED-	4		BATH			ENS-2								
EXP. WALL			34			28		7			14		42		14	-		7			22								
CLG. HT.			10			9		9			9		10		9			9			9								
	FACTORS					•		•			•				•			•											
GRS.WALL AREA	LOSS G	INI	340			252		63			126		420		126			63			198								
GLAZING	L033 G/	WI V		GAIN		LOSS GA	INI	LOSS	CAIN	Ι.	.OSS GA	INI	LOSS	CAIN		GAIN		LOSS	CAIN			GAIN							
NORTH	17.9 1	.8 0		0	0	0 0			0	۱ ، '	0		0	0	0 0	0	0	0	0	0	0	0							
EAST				0	0	0 0			0	-	589 13		1357	3148	0 0	0	0		0	16	286	663							
SOUTH	17.9 4 <sup>2</sup>			0	14	250 34			0	0	0		1357	0	15 268	372	7	0 125	173	0	0	0		1	T(	<b>1WC</b>	N OF	F MIL	LTON
			-	-	13			-	290	0	0		0	- 1	0 0	0	ó	0	0	0	0	0		PLANN	IING	AND	DEVI	ELOP	PMENT
WEST SKYLT.	17.9 4°			1657	0			125 0		-			0	0			-	-	-	0	0	0						T: 17-	
DOORS	30.6 10 24.1 4			0	0	-			0	0	0		0	0	0 0	0	0	0	0	0	0	0							
				0				-	-	-	-		-	-		-	-	-	-	182	476	92		BUILDING: RE					
NET EXPOSED WALL	2.6 0			152	225	589 11			28		243 4		900	174	111 290	56	56	147	28	0	4/6	0	5	SCOTT SHER	RIFF	S	Jl	UN 15	5, 2017
NET EXPOSED BSMT WALL ABOVE GR		6 0		0	0	0 0			0	0	0		0	0	0 0	0	0	0	0	96	132	66	Ē	LANS EXAMINER	₹				DATE
EXPOSED CLG	1.4 0			197	195	269 13			77		237 1			131	210 289	144	140	193	96	0		0	Ī	leither the issuanc	e of a	permit n	or carr	vina ou	ut of
NO ATTIC EXPOSED CLG	2.2 1			0	0	0 0		-	0	20	45 2			154	0 0	0	0	0	0	-	0	-		spections by the 7					
EXPOSED FLOOR	2.2 0	4 0	•	0	0	0 0	0		0	192	421 8	1 20	44	8	0 0	0	20	44	8	96	210	41		ıll responsibility fo					
BASEMENT/CRAWL HEAT LOSS			0		l	0		0			0		0		0			0			0			ne Ontario Building					
SLAB ON GRADE HEAT LOSS			0		1	0		0		1	0		0		0		l	0			0			ode, both as ame					
SUBTOTAL HT LOSS			1896		1	1339		426		1	1535		2874		848		l	508			1105			tatutes and regula					
SUB TOTAL HT GAIN				2006	1	11			395	1	16			3615		572	l		306			861		y-laws of the Regi	UII UI I	iaiton a	iilu 10V	WIT OF IVE	IIIUII
LEVEL FACTOR / MULTIPLIER		0.2	0 0.32		0.20		0.2	0.32		0.20		0.20	0.32		0.20 0.32		0.20			0.20	0.32								
AIR CHANGE HEAT LOSS			605			428		136			490		918		271			162			353					F	REC.	EIVE	ם=
AIR CHANGE HEAT GAIN				156		8	8		31		1	27		281		44			24			67							LTON
DUCT LOSS			0			0		0			203		379		0			67			146					101	/VIN C	) IVIII	LION
DUCT GAIN				0		C	)		0		2	64		477		0			33			157				N	/AY	30, 20	)17
HEAT GAIN PEOPLE	240	2		480	1	24	0 0		0	1	2	10 1		240	1	240	0		0	0		0							
HEAT GAIN APPLIANCES/LIGHTS				638		0	)		0		6	38		638		638			0			638					17-	7101	
TOTAL HT LOSS BTU/H			2501			1767		562			2228		4171		1118			738			1603					DLIII	DINI	אום ב	ISION
																										וונוס	ועווכו		ועוטוסוי
TOTAL HT GAIN x 1.3 BTU/H				4264		18	99		553		37	76		6827		1942			472			2240			L	DUIL	יאווט	יום כ	ISION
							99					76		6827		1942	ı		472								ואווט		
ROOM USE			LV/DN			OFF	99	KT/FN				76	LAUN	6827	W/R	1942		FOY	472		MUE				<u>                                     </u>	WOD	DING		BAS
ROOM USE EXP. WALL			26			OFF 23	99	78				76	11	6827	7	1942		20	472		28					WOD 38	DING		BAS 182
ROOM USE						OFF	99					76		6827		1942			472							WOD	- JUING		BAS
ROOM USE EXP. WALL CLG. HT.	FACTORS		26 11			OFF 23 11	99	78 11				76	11 9	6827	7 11	1942		20 11	472		28 12	)				WOD 38 9	-DING	1	BAS 182 9
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA			26 11 286	N		OFF 23 11 253		78 11 858	1			76	11 9 99		7 11 77			20 11 220			28 12 336	)				WOD 38 9		1	BAS 182 9
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING	LOSS GA	IN	26 11 286 LOSS	N S GAIN		OFF 23 11 253 LOSS GA	un	78 11 858 LOSS	1 GAIN			76	11 9 99 LOSS	GAIN	7 11 77 LOS	6 GAIN		20 11 220 LOSS	GAIN		28 12 336 LOS	) S GAIN				WOD 38 9 342 LOSS	GAIN	1 L	BAS 182 9 1206 LOSS GAIN
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH	LOSS GA	IN 5.8 0	26 11 286 LOSS	N S GAIN 0	10	OFF 23 11 253 LOSS GA 179 15	LIN 58 0	78 11 858 LOSS	1 GAIN 0			7	99 LOSS 125	GAIN 111	7 11 77 LOS: 0 0	GAIN 0	20	20 11 220 LOSS 357	GAIN 317	9	28 12 336 LOSS 161	GAIN			10	WOD 38 9 342 LOSS 179	GAIN 158	1 L	BAS 182 9 1206 OSS GAIN 89 79
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST	17.9 1:	iN 5.8 0 .4 0	26 11 286 LOSS 0 0	S GAIN 0 0	10 37	OFF 23 11 253 LOSS GA 179 15 661 15	IIN 58 0 33 0	78 11 858 LOSS 0	GAIN 0 0			76	11 9 99 LOSS 125 0	GAIN 111 0	7 11 77 LOS: 0 0 0 0	GAIN 0 0	20 6	20 11 220 LOSS 357 107	GAIN 317 249	0	28 12 336 LOSS 161 0	5 GAIN 143 0			10	WOD 38 9 342 LOSS 179 0	GAIN 158 0	1 L 5	BAS 182 9 1206 -OSS GAIN 89 79 0 0
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH	17.9 1: 17.9 4: 17.9 2:	i.8 0 .4 0 i.8 38	26 11 286 LOSS 0 0	S GAIN 0 0 941	10 37 0	OFF 23 11 253 LOSS GA 179 15 661 15	IIN 58 0 33 0	78 11 858 LOSS 0 0	GAIN 0 0			7	11 9 99 LOSS 125 0	GAIN 111 0	7 11 77 LOS: 0 0 0 0 7 125	6 GAIN 0 0 173	20 6 0	20 11 220 LOSS 357 107 0	GAIN 317 249 0	0	28 12 336 LOSS 161 0	S GAIN 143 0			0	WOD 38 9 342 LOSS 179 0	GAIN 158 0	5 0	BAS 182 9 1206 -OSS GAIN 89 79 0 0
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST	17.9 1: 17.9 4: 17.9 2: 17.9 4:	i.8 0 .4 0 .8 38 .4 0	26 11 286 LOSS 0 0 0 678	S GAIN 0 0	10 37 0 0	OFF 23 11 253 LOSS GA 179 15 661 15 0 0	SIN 58 0 33 0 0 0 120	78 11 858 LOSS 0 0 0	GAIN 0 0 0 4970			7 0 0	11 9 99 LOSS 125 0 0	GAIN 111 0 0	7 11 77 LOSS 0 0 0 0 7 125 0 0	6 GAIN 0 0 173	20 6 0	20 11 220 LOSS 357 107 0	GAIN 317 249 0	0 0	28 12 336 LOSS 161 0 0	9 GAIN 143 0 0			0 0	WOD 38 9 342 LOSS 179 0 0	GAIN 158 0 0	5 0 0	BAS 182 9 1206 .OSS GAIN 89 79 0 0 0 0
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT.	17.9 19 17.9 4 17.9 4 17.9 4 17.9 4 30.6 10	i.8 0 .4 0 i.8 38 .4 0 i.2 0	26 11 286 LOSS 0 0 6 678 0	S GAIN 0 0 941 0	10 37 0 0	OFF 23 11 253 LOSS GA 179 15 661 15 0 0 0 0 0 0 0 0	SIN 58 0 33 0 0 0 120 0 0	78 11 858 LOSS 0 0 0 0 2142	GAIN 0 0 0 4970			7 0 0 0	11 9 99 LOSS 125 0 0	GAIN 111 0 0 0	7 11 77 LOS: 0 0 0 7 125 0 0 0	6 GAIN 0 0 173 0	20 6 0 0	20 11 220 LOSS 357 107 0 0	GAIN 317 249 0 0	0 0 0	28 12 336 LOSS 161 0 0	5 GAIN 143 0 0 0			0 0 0	WOD 38 9 342 LOSS 179 0 0	GAIN 158 0 0	5 0 0	BAS 182 9 1206 -OSS GAIN 89 79 0 0 0 0 0 0
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS	17.9 1: 17.9 4: 17.9 4: 17.9 4: 17.9 4: 30.6 10 24.1 4:	i.8 0 .4 0 .8 38 .4 0 1.2 0 7 0	26 11 286 LOSS 0 0 6 678 0 0	S GAIN 0 0 941 0 0	10 37 0 0 0	OFF 23 11 253 LOSS GA 179 15 661 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SIN 58 0 33 0 0 0 120 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	78 11 858 LOSS 0 0 0 0 2142 0	GAIN 0 0 0 4970 0			7 0 0 0	11 9 99 LOSS 125 0 0 0	GAIN 111 0 0 0	7 11 77 LOSS 0 0 0 0 7 125 0 0 0 0	6 GAIN 0 0 173 0 0	20 6 0 0 0 20	20 11 220 LOSS 357 107 0 0 481	GAIN 317 249 0 0 0	0 0 0 0 20	28 12 336 LOSS 161 0 0 0 481	S GAIN 143 0 0 0 0			0 0 0 0	WOD 38 9 342 LOSS 179 0 0 0	GAIN 158 0 0 0	5 0 0 0 0	BAS 182 9 1206 -OSS GAIN 89 79 0 0 0 0 0 0 0 0 481 93
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL	17.9 1: 17.9 4: 17.9 4: 17.9 4: 30.6 10 24.1 4: 2.6 0	i.8 0 .4 0 .8 38 .4 0 1.2 0 7 0 5 24	26 11 286 LOSS 0 0 6 678 0 0 0	S GAIN 0 0 941 0	10 37 0 0 0 0 206	OFF 23 11 253 LOSS GA 179 15 661 15 0 0 0 0 0 539 10	SIN 58 0 33 0 0 120 0 0 0 0	78 11 858 LOSS 0 0 0 2142 0 0 8 1931	GAIN 0 0 0 4970 0 0 373			7 0 0 0 0 0	11 9 99 LOSS 125 0 0 0 0 0	GAIN 111 0 0 0 0 0	7 11 77 LOS: 0 0 0 0 7 125 0 0 0 0 0 0 7 183	6 GAIN 0 0 173 0 0 0	20 6 0 0 0 20 174	20 11 220 LOSS 357 107 0 0 0 481 455	GAIN 317 249 0 0 0 93 88	0 0 0 0 20 307	28 12 336 LOSS 161 0 0 0 481 803	S GAIN 143 0 0 0 0 93 155			0 0 0 0 0	WOD 38 9 342 LOSS 179 0 0 0 0 0	GAIN 158 0 0 0 0	5 0 0 0 0 20	BAS 182 9 1206 .OSS GAIN 89 79 0 0 0 0 0 0 0 0 481 93 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 GR	17.9 11 17.9 4 17.9 4 17.9 4 30.6 10 24.1 4 2.6 0 3.3 0	in i.8 0 .4 0 .8 38 .4 0 1.2 0 .7 0 5 24 6 0	26 11 286 LOSS 0 0 678 0 0 0 8 678 0	S GAIN 0 0 941 0 0	10 37 0 0 0 0 206	OFF 23 11 253 LOSS GA 179 15 661 15 0 0 0 0 0 539 10	SIN 58 0 33 0 0 120 0 0 0 0 0 0 0 0 0 0	78 11 858 LOSS 0 0 0 2142 0 0 8 1931	GAIN 0 0 0 4970 0 0 373			7 0 0 0 0 0 0 92	11 9 99 LOSS 125 0 0 0 0 0 241	GAIN 111 0 0 0 0 0 47	7 11 77 LOS: 0 0 0 0 7 125 0 0 0 0 0 0 7 183 0 0	G GAIN 0 0 173 0 0 0 35	20 6 0 0 0 20 174	20 11 220 LOSS 357 107 0 0 481 455 0	GAIN 317 249 0 0 0 93 88 0	0 0 0 0 20 307 0	28 12 336 LOSS 161 0 0 0 481 803 0	S GAIN 143 0 0 0 0 93 155			0 0 0 0 0 0 218	WOD 38 9 342 LOSS 179 0 0 0 0 0 0 728	GAIN 158 0 0 0 0 0	5 0 0 0 20 0 432	BAS 182 9 1206 -COSS GAIN 89 79 0 0 0 0 0 0 0 481 93 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	17.9 11 17.9 4 17.9 2 17.9 4 30.6 10 24.1 4 2.6 0 3.3 0 1.4 0	in i	26 11 286 LOSS 0 0 678 0 0 0 8 649 0	S GAIN 0 0 941 0 0 125 0	10 37 0 0 0 0 206 0	OFF 23 11 253 LOSS GA 179 15 661 15 0 0 0 0 5339 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SIN 68 0 33 0 0 0 120 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	78 11 858 LOSS 0 0 0 2142 0 0 8 1931 0 8	GAIN 0 0 4970 0 373 0			7 0 0 0 0 0 92 0 253	11 9 99 LOSS 125 0 0 0 0 241 0 349	GAIN 111 0 0 0 0 47 0 173	7 111 77 LOS: 0 0 0 0 7 125 0 0 0 0 0 0 0 7 183 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	G GAIN 0 0 173 0 0 35 0	20 6 0 0 0 20 174 0	20 11 220 LOSS 357 107 0 0 481 455 0	GAIN 317 249 0 0 0 93 88 0	0 0 0 0 20 307 0	28 12 336 LOSS 161 0 0 0 481 803 0	S GAIN 143 0 0 0 93 155 0			0 0 0 0 0 0 218	WOD 38 9 342 LOSS 179 0 0 0 728	GAIN 158 0 0 0 0 0 141	5 0 0 0 0 20 0 432	BAS 182 9 1206 -OSS GAIN 89 79 0 0 0 0 0 0 481 93 0 0 0 1442 279 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	17.9 1: 17.9 4: 17.9 2: 17.9 4: 30.6 10 24.1 4: 2.6 0 3.3 0 1.4 0 2.2 1	i.8 0 .4 0 .8 38 .4 0 1.2 0 .7 0 5 24 6 0 .7 0 1 0	26 11 286 LOSS 0 0 678 0 0 0 8 649 0 0	S GAIN 0 0 941 0 0	10 37 0 0 0 0 206 0	OFF 23 11 253 LOSS GA 179 15 661 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SIN 68 0 33 0 0 0 120 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	78 11 858 LOSS 0 0 0 2142 0 0 8 1931 0 8	GAIN 0 0 4970 0 373 0 4			7 0 0 0 0 0 92 0 253	11 9 99 LOSS 125 0 0 0 0 241 0 349 0	GAIN 111 0 0 0 0 47 0 173	7 111 777 LOS: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 GAIN 0 0 173 0 0 35 0	20 6 0 0 0 20 174 0	20 11 220 LOSS 357 107 0 0 481 455 0	GAIN 317 249 0 0 0 93 88 0 0	0 0 0 0 20 307 0 0	28 12 336 LOSS 161 0 0 0 481 803 0 0	S GAIN 143 0 0 0 0 93 155 0			0 0 0 0 0 0 218 0	WOD 38 9 342 LOSS 179 0 0 0 728 0 0	GAIN 158 0 0 0 0 0 0 141	5 0 0 0 0 20 0 432	BAS 182 9 1206 COSS GAIN 89 79 0 0 0 0 0 0 481 93 0 0 1442 279 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	17.9 11 17.9 4 17.9 2 17.9 4 30.6 10 24.1 4 2.6 0 3.3 0 1.4 0	i.8 0 .4 0 .8 38 .4 0 1.2 0 .7 0 5 24 6 0 .7 0 1 0	26 11 286 LOSS 0 0 678 0 0 0 8 649 0 0	S GAIN 0 0 941 0 0 125 0	10 37 0 0 0 0 206 0	OFF 23 11 253 LOSS GA 179 16 661 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SIN 68 0 33 0 0 0 120 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	78 11 858 LOSS 0 0 0 2142 0 8 1931 0 8	GAIN 0 0 4970 0 373 0			7 0 0 0 0 0 92 0 253	11 9 99 LOSS 125 0 0 0 0 241 0 349 0	GAIN 111 0 0 0 0 47 0 173	7 111 777 LOS: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	G GAIN 0 0 173 0 0 35 0	20 6 0 0 0 20 174 0	20 11 220 LOSS 357 107 0 0 481 455 0 0	GAIN 317 249 0 0 0 93 88 0	0 0 0 0 20 307 0	28 12 336 LOSS 161 0 0 0 481 803 0 0	S GAIN 143 0 0 0 93 155 0			0 0 0 0 0 0 218	WOD 38 9 342 LOSS 179 0 0 0 728	GAIN 158 0 0 0 0 0 141	5 0 0 0 20 0 432	BAS 182 9 1206 -OSS GAINI 89 79 0 0 0 0 0 0 481 93 0 0 1442 279 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 EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS	17.9 1: 17.9 4: 17.9 2: 17.9 4: 30.6 10 24.1 4: 2.6 0 3.3 0 1.4 0 2.2 1	i.8 0 .4 0 .8 38 .4 0 1.2 0 .7 0 5 24 6 0 .7 0 1 0	26 11 286 LOSS 0 0 678 0 0 0 8 649 0 0	S GAIN 0 0 941 0 0 125 0	10 37 0 0 0 0 206 0	OFF 23 11 253 LOSS GA 179 18 661 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SIN 68 0 33 0 0 0 120 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	78 11 858 LOSS 0 0 0 2142 0 0 8 1931 0 8	GAIN 0 0 4970 0 373 0 4			7 0 0 0 0 0 92 0 253	99 LOSS 125 0 0 0 0 241 0 349 0 0 0	GAIN 111 0 0 0 0 47 0 173	7 11 77 LOS: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 GAIN 0 0 173 0 0 35 0	20 6 0 0 0 20 174 0	20 11 220 LOSS 357 107 0 0 481 455 0 0 0	GAIN 317 249 0 0 0 93 88 0 0	0 0 0 0 20 307 0 0	28 12 3366 LOS: 161 0 0 0 481 803 0 0 0	S GAIN 143 0 0 0 0 93 155 0			0 0 0 0 0 0 218 0	WOD 38 9 342 LOSS 179 0 0 0 728 0 0 0	GAIN 158 0 0 0 0 0 0 141	5 0 0 0 20 0 432	BAS 182 9 1206 COSS GAIN 89 79 0 0 0 0 0 0 481 93 0 0 1442 279 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 ULG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS	17.9 1: 17.9 4: 17.9 2: 17.9 4: 30.6 10 24.1 4: 2.6 0 3.3 0 1.4 0 2.2 1	i.8 0 .4 0 .8 38 .4 0 1.2 0 .7 0 5 24 6 0 .7 0 1 0	26 11 286 LOSS 0 0 678 0 0 0 8 649 0 0 0	S GAIN 0 941 0 0 125 0	10 37 0 0 0 0 206 0	OFF 23 11 253 LOSS GA 179 15 661 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SIN 68 0 33 0 0 0 120 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	78 11 858 LOSS 0 0 0 2142 0 0 8 1931 0 8 0 0	GAIN 0 0 4970 0 373 0 4			7 0 0 0 0 0 92 0 253	99 LOSS 125 0 0 0 0 241 0 349 0 0 0 0 0	GAIN 111 0 0 0 0 47 0 173	7 111 777 LOS: 0 0 0 0 0 7 125 0	6 GAIN 0 0 173 0 0 35 0	20 6 0 0 0 20 174 0	20 11 220 LOSS 357 107 0 0 481 455 0 0 0	GAIN 317 249 0 0 0 93 88 0 0	0 0 0 0 20 307 0 0	28 12 336 LOS: 161 0 0 0 481 803 0 0 0 0	93 155 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0 0 0 0 0 0 218 0	WOD 38 9 342 LOSS 179 0 0 0 728 0 0 0	GAIN 158 0 0 0 0 0 0 141	5 0 0 0 0 20 0 432 0	BAS 182 9 1206 COSS GAIN 89 79 0 0 0 0 0 0 481 93 0 0 1442 279 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 LGG EXPOSED LGG EXPOSED LGG EXPOSED LOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT LOSS	17.9 1: 17.9 4: 17.9 2: 17.9 4: 30.6 10 24.1 4: 2.6 0 3.3 0 1.4 0 2.2 1	i.8 0 .4 0 .8 38 .4 0 1.2 0 .7 0 5 24 6 0 .7 0 1 0	26 11 286 LOSS 0 0 678 0 0 0 8 649 0 0	S GAIN 0 941 0 0 125 0	10 37 0 0 0 0 206 0	OFF 23 11 253 LOSS GA 179 16 661 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10 10 10 10 10 10 10 10 10 10 10 10 10 1	78 11 858 LOSS 0 0 0 2142 0 0 8 1931 0 8	GAIN 0 0 4970 0 373 0 4			7 0 0 0 0 0 92 0 253	99 LOSS 125 0 0 0 0 241 0 349 0 0 0	GAIN 111 0 0 0 0 47 0 173	7 11 77 LOS: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 GAIN 0 0 173 0 0 35 0	20 6 0 0 0 20 174 0	20 11 220 LOSS 357 107 0 0 481 455 0 0 0	GAIN 317 249 0 0 0 93 88 0 0	0 0 0 0 20 307 0 0	28 12 3366 LOS: 161 0 0 0 481 803 0 0 0	93 155 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0 0 0 0 0 0 218 0	WOD 38 9 342 LOSS 179 0 0 0 728 0 0 0	GAIN 158 0 0 0 0 0 0 141	5 0 0 0 0 20 0 432 0	BAS 182 9 1206 -OSS GAINI 89 79 0 0 0 0 0 0 481 93 0 0 1442 279 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 LOSS	17.9 1: 17.9 4: 17.9 2: 17.9 4: 30.6 10 24.1 4: 2.6 0 3.3 0 1.4 0 2.2 1	in i	26 11 286 LOSS 0 0 0 6 678 0 0 0 0 0 0 0 0 1 0 1 1 1 1 1 1 1 1 1	S GAIN 0 941 0 0 125 0	10 37 0 0 0 0 206 0 0	OFF 23 11 253 LOSS GA 179 15 661 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	68 0 0 0 121 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	78 11 858 LOSS 0 0 0 2142 0 0 8 1931 0 8 0 0 0 4081	GAIN 0 0 4970 0 373 0 4			7 0 0 0 0 0 92 0 253 0	11 9 99 LOSS 125 0 0 0 241 0 349 0 0 0	GAIN 111 0 0 0 0 47 0 173	7 11 77 LOS: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 GAIN 0 0 173 0 0 35 0	20 6 0 0 20 174 0 0	20 11 220 LOSS 357 107 0 0 481 455 0 0 0 0 0 1400	GAIN 317 249 0 0 0 93 88 0 0	0 0 0 20 307 0 0	28 12 3366 LOSS 161 0 0 0 481 803 0 0 0 0 0 1445	3 GAIN 143 0 0 0 0 93 155 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0 0 0 0 0 0 218 0	WOD 38 9 342 LOSS 179 0 0 0 728 0 0 0	GAIN 158 0 0 0 0 0 0 141	5 0 0 0 0 20 0 432 0	BAS 182 9 1206 COSS GAIN 89 79 0 0 0 0 0 0 481 93 0 0 1442 279 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 LGG EXPOSED LGG EXPOSED LGG EXPOSED LOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT LOSS	17.9 1: 17.9 4: 17.9 2: 17.9 4: 30.6 10 24.1 4: 2.6 0 3.3 0 1.4 0 2.2 1	in i	26 11 286 LOSS 0 0 678 0 0 0 8 649 0 0 0	S GAIN 0 0 941 0 0 125 0 0 0	10 37 0 0 0 0 206 0	OFF 23 11 253 LOSS GA 179 15 661 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	68 0 0 0 121 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	78 11 858 LOSS 0 0 0 2142 0 0 8 1931 0 8 0 0	GAIN 0 0 0 4970 0 0 373 0 4 0 0			7 0 0 0 0 0 92 0 253	11 9 99 LOSS 125 0 0 0 241 0 349 0 0 0	GAIN 111 0 0 0 0 47 0 173 0	7 111 777 LOS: 0 0 0 0 0 7 125 0	G GAIN 0 0 173 0 0 35 0 0	20 6 0 0 0 20 174 0	20 11 220 LOSS 357 107 0 0 481 455 0 0 0 0 0 1400	GAIN 317 249 0 0 93 88 0 0	0 0 0 20 307 0 0	28 12 336 LOS: 161 0 0 0 481 803 0 0 0 0	3 GAIN 143 0 0 0 0 93 155 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0 0 0 0 0 0 218 0	WOD 38 9 342 LOSS 179 0 0 0 728 0 0 0	GAIN 158 0 0 0 0 0 0 141 0 0	L L 5 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BAS 182 9 1206 -OSS GAIN 89 79 0 0 0 0 0 0 481 93 0 0 0 1442 279 0 0 0 0 0 0 6194
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 LOSS	17.9 1: 17.9 4: 17.9 2: 17.9 4: 30.6 10 24.1 4: 2.6 0 3.3 0 1.4 0 2.2 1	in i	26 11 286 LOSS 0 0 0 6 678 0 0 0 0 0 0 0 0 1 0 1 1 1 1 1 1 1 1 1	S GAIN 0 0 941 0 0 125 0 0 0	10 37 0 0 0 0 206 0 0	OFF 23 11 253 LOSS GA 179 15 661 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	68 0 0 0 121 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	78 11 858 LOSS 0 0 0 2142 0 0 8 1931 0 8 0 0 0 4081	GAIN 0 0 0 4970 0 0 373 0 4 0 0			7 0 0 0 0 0 92 0 253 0	11 9 99 LOSS 125 0 0 0 241 0 349 0 0 0	GAIN 111 0 0 0 0 47 0 173 0	7 11 77 LOS: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	G GAIN 0 0 173 0 0 35 0 0	20 6 0 0 20 174 0 0	20 11 220 LOSS 357 107 0 0 481 455 0 0 0 0 0 1400	GAIN 317 249 0 0 93 88 0 0	0 0 0 20 307 0 0	28 12 3366 LOSS 161 0 0 0 481 803 0 0 0 0 0 1445	S GAIN 143 0 0 0 0 93 155 0 0 0			0 0 0 0 0 0 218 0	WOD 38 9 342 LOSS 179 0 0 0 728 0 0 0	GAIN 158 0 0 0 0 0 0 141 0 0	5 0 0 0 20 0 432 0 0	BAS 182 9 1206 -OSS GAIN 89 79 0 0 0 0 0 0 481 93 0 0 0 1442 279 0 0 0 6194 8206
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 GSIN LEVEL FACTOR / MULTIPLIER	17.9 1: 17.9 4: 17.9 2: 17.9 4: 30.6 10 24.1 4: 2.6 0 3.3 0 1.4 0 2.2 1	in i	26 11 286 LOSS 0 0 678 0 0 0 0 0 0 0 0 1327	S GAIN 0 0 941 0 0 125 0 0 0	10 37 0 0 0 0 206 0 0	OFF 23 11 253 LOSS GA 179 15 661 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NIN 88 0 0 0 0 0 12(1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	78 11 858 LOSS 0 0 0 2142 0 0 8 1931 0 0 0 4081	GAIN 0 0 0 4970 0 0 373 0 4 0 0			7 0 0 0 0 0 92 0 253 0	99 LOSS 125 0 0 0 0 241 0 349 0 0 0 714	GAIN 111 0 0 0 0 47 0 173 0	7 111 77 LOS: 0	G GAIN 0 0 173 0 0 35 0 0	20 6 0 0 20 174 0 0	20 11 220 LOSS 357 107 0 0 481 455 0 0 0 0 0 1400	GAIN 317 249 0 0 93 88 0 0	0 0 0 20 307 0 0	28 12 336 LOS: 161 0 0 0 481 803 0 0 0 0 1445 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	S GAIN 143 0 0 0 0 93 155 0 0 0			0 0 0 0 0 0 218 0	WOD 38 9 342 LOSS 179 0 0 0 728 0 0 0	GAIN 158 0 0 0 0 0 0 141 0 0	5 0 0 0 20 0 432 0 0	BAS 182 9 1206 .OSS GAIN 89 79 0 0 0 0 0 0 0 0 1442 279 0 0 0 0 0 0 1442 279 0 0 0 0 149 0 0 0 0 0 481 0 0 0 0 0 0 0 481 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 CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SUBTOTAL HT LOSS SUB TOTAL HT GAIN LEVEL FACTOR, MULTIPLIER AIR CHANGE HEAT LOSS	17.9 1: 17.9 4: 17.9 2: 17.9 4: 30.6 10 24.1 4: 2.6 0 3.3 0 1.4 0 2.2 1	in i	26 11 286 LOSS 0 0 678 0 0 0 0 0 0 0 0 1327	S GAIN 0 0 941 0 0 0 125 0 0 0 0	10 37 0 0 0 0 206 0 0	OFF 23 11 253 LOSS GA 179 15 661 15 0 0 0 0 0 0 0 0 0 1 1378 17 0.54 747	NIN 88 0 0 0 0 0 12(1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	78 11 858 LOSS 0 0 0 2142 0 0 8 1931 0 0 0 4081	GAIN 0 0 0 4970 0 0 373 0 4 0 0 0			7 0 0 0 0 0 92 0 253 0	99 LOSS 125 0 0 0 0 241 0 349 0 0 0 714	GAIN 1111 0 0 0 0 47 0 173 0	7 111 77 LOS: 0	6 GAIN 0 0 173 0 0 0 35 0 0 0	20 6 0 0 20 174 0 0	20 11 220 LOSS 357 107 0 0 481 455 0 0 0 0 0 1400	GAIN 317 249 0 0 93 88 0 0 0	0 0 0 20 307 0 0	28 12 336 LOS: 161 0 0 0 481 803 0 0 0 0 1445 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 GAIN 143 0 0 0 0 93 155 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0 0 0 0 0 0 218 0	WOD 38 9 342 LOSS 179 0 0 0 728 0 0 0	GAIN 158 0 0 0 0 0 0 141 0 0	5 0 0 0 20 0 432 0 0	BAS 182 9 1206 COSS GAIN 89 79 0 0 0 0 0 0 481 93 0 0 0 1442 279 0 0 0 0 0 0 0 0 6194 8206 451 0.99 8977
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 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	17.9 1: 17.9 4: 17.9 2: 17.9 4: 30.6 10 24.1 4: 2.6 0 3.3 0 1.4 0 2.2 1	in i	26 11 286 0 0 0 0 6 6 6 7 8 6 49 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	S GAIN 0 0 941 0 0 0 125 0 0 0 0	10 37 0 0 0 0 206 0 0	OFF 23 11 253 LOSS GA 179 16 661 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NIN 688 0 0 124 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	78 11 858 LOSS 0 0 0 2142 0 0 8 1931 0 8 0 0 4081	GAIN 0 0 0 4970 0 0 373 0 4 0 0 0			7 0 0 0 0 0 92 0 253 0	11 9 99 LOSS 125 0 0 0 0 241 0 349 0 0 714	GAIN 1111 0 0 0 0 47 0 173 0	7 111 777 LOS: 0 0 0 0 0 7 125 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 GAIN 0 0 173 0 0 0 35 0 0 0	20 6 0 0 20 174 0 0	20 11 220 LOSS 357 107 0 0 481 455 0 0 0 0 1400	GAIN 317 249 0 0 93 88 0 0 0	0 0 0 20 307 0 0	28 12 3366 LOSS 1661 0 0 0 4811 803 0 0 0 0 14445 0.54 783	9 GAIN 143 0 0 0 0 93 155 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0 0 0 0 0 0 218 0	WOD 38 9 342 LOSS 179 0 0 0 728 0 0 0	GAIN 158 0 0 0 0 0 0 141 0 0	5 0 0 0 20 0 432 0 0	BAS 182 9 1206 .OSS GAIN 89 79 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 BANT WALL ABOVE GR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT GAIN DUCT LOSS	17.9 1: 17.9 4: 17.9 4: 30.6 10 24.1 4 2.6 0 3.3 0 1.4 0 2.2 1 2.2 0	in i	26 11 286 0 0 0 0 6 6 6 7 8 6 49 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	S GAIN 0 0 941 0 0 0 125 0 0 0 0	10 37 0 0 0 0 206 0 0	OFF 23 11 253 LOSS GA 179 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Nin 188 0 0 0 0 121 0 0 0 0 0 0 0 0 0 0 0 0 0 0	78 11 858 LOSS 0 0 0 2142 0 0 8 1931 0 8 0 0 4081	GAIN 0 0 4970 0 0 373 0 4 0 0 0 5348			7 0 0 0 0 0 92 0 253 0	11 9 99 LOSS 125 0 0 0 0 241 0 349 0 0 714	GAIN 1111 0 0 0 0 47 0 173 0 0	7 111 777 LOS: 0 0 0 0 0 7 125 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 GAIN 0 0 173 0 0 0 35 0 0 0 0	20 6 0 0 20 174 0 0	20 11 220 LOSS 357 107 0 0 481 455 0 0 0 0 1400	GAIN 3147 249 0 0 93 88 0 0 0	0 0 0 20 307 0 0	28 12 3366 LOSS 1661 0 0 0 4811 803 0 0 0 0 14445 0.54 783	93 0 0 0 0 93 155 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0 0 0 0 0 0 218 0	WOD 38 9 342 LOSS 179 0 0 0 0 728 0 0 0	GAIN 158 0 0 0 0 0 0 141 0 0	5 0 0 0 20 0 432 0 0	BAS 182 9 1206 .OSS GAIN 89 79 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 FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT GAIN DUCT LOSS DUCT GAIN	17.9 1: 17.9 4: 17.9 4: 30.6 10 24.1 4 2.6 0 3.3 0 1.4 0 2.2 1 2.2 0	8.8 0 0.4 0 0.8 38 4.4 0 0.1.2 0 0.7 7 0 0.3 0.3	26 11 286 0 0 0 0 6 6 6 7 8 6 49 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	S GAIN 0 0 0 941 0 0 0 125 0 0 0 1067 83 0	10 37 0 0 0 206 0 0 0	OFF 23 11 253 LOSS GA 179 15 661 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NIN   10   12   12   12   12   12   12   12	78 11 858 LOSS 0 0 0 2142 0 0 8 1931 0 8 0 0 4081	GAIN 0 0 0 4970 0 0 373 0 4 0 0 0 5348 416 0			7 0 0 0 0 0 92 0 253 0	11 9 99 LOSS 125 0 0 0 0 241 0 349 0 0 714	GAIN 1111 0 0 0 0 47 0 173 0 0	7 111 77 LOS: 0	6 GAIN 0 0 0 173 0 0 0 355 0 0 0 0 2099	20 6 0 0 0 20 174 0 0 0	20 11 220 LOSS 357 107 0 0 481 455 0 0 0 0 1400	GAIN 3147 249 0 0 988 80 0 0 0 0 7446 58	0 0 0 0 20 307 0 0 0	28 12 3366 LOSS 1661 0 0 0 4811 803 0 0 0 0 14445 0.54 783	9 GAIN 143 0 0 0 0 0 93 155 0 0 0 0			0 0 0 0 0 0 218 0 0	WOD 38 9 342 LOSS 179 0 0 0 0 728 0 0 0	GAIN 158 0 0 0 0 0 141 0 0	5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BAS 182 9 1206 .OSS GAIN 89 79 0 0 0 0 0 0 481 93 0 0 1442 279 0 0 0 0 6194 8206 451 0.99 88977 58
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 SUBTOTAL HT LOSS SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS DUCT GAIN DUCT LOSS DUCT GAIN HEAT GAIN PEOPLE	17.9 1: 17.9 4: 17.9 4: 30.6 10 24.1 4 2.6 0 3.3 0 1.4 0 2.2 1 2.2 0	8.8 0 0.4 0 0.8 38 4.4 0 0.1.2 0 0.7 7 0 0.3 0.3	26 11 286 0 0 0 0 6 6 6 7 8 6 49 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	S GAIN 0 0 0 941 0 0 125 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10 37 0 0 0 0 206 0 0 0 0 0	OFF 23 11 253 LOSS GA 179 15 661 15 0 0 0 0 0 0 0 0 0 0 1378 17 0.54 747 14	NIN   10   12   12   12   12   12   12   12	78 11 858 LOSS 0 0 0 2142 0 0 8 1931 0 8 0 0 4081	1 GAIN 0 0 0 4970 0 0 373 0 4 0 0 5348 416 0 240			7 0 0 0 0 0 92 0 253 0	11 9 99 LOSS 125 0 0 0 0 241 0 349 0 0 714	GAIN 111 0 0 0 47 0 173 0 0 331	7 111 77 LOS: 0	GAIN 0 0 0 173 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 6 0 0 20 174 0 0 0 0	20 11 220 LOSS 357 107 0 0 481 455 0 0 0 0 1400	GAIN 317 249 0 0 0 93 88 0 0 0 0 7466 58 0 0 0	0 0 0 0 20 307 0 0 0	28 12 3366 LOSS 1661 0 0 0 4811 803 0 0 0 0 14445 0.54 783	3 GAIN 143 0 0 0 93 155 0 0 0 0 391			0 0 0 0 0 0 218 0 0	WOD 38 9 342 LOSS 179 0 0 0 0 728 0 0 0	GAIN 158 0 0 0 0 0 141 0 0	L L 5 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BAS 182 9 1206 .OSS GAIN 89 79 0 0 0 0 0 0 481 93 0 0 1442 279 0 0 0 0 6194 8206 451 0.99 88977 58
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 FLOOR BASEMENT/CRAWL HEAT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS OUCT GAIN HEAT GAIN PEOPLE HEAT GAIN APPLIANCES/LIGHTS	17.9 1: 17.9 4: 17.9 4: 30.6 10 24.1 4 2.6 0 3.3 0 1.4 0 2.2 1 2.2 0	8.8 0 0.4 0 0.8 38 4.4 0 0.1.2 0 0.7 7 0 0.3 0.3	26 11 286 COSS 0 0 0 0 0 0 0 0 0 0 1327 0 0 0.54 719 0	S GAIN 0 0 0 941 0 0 125 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10 37 0 0 0 0 206 0 0 0 0 0	OFF 23 11 253 LOSS GA 179 15 661 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10 10 10 10 10 10 10 10 10 10 10 10 10 1	78 11 858 LOSS 0 0 0 2142 0 0 8 1931 0 0 0 4081 90 0 0 4081	1 GAIN 0 0 0 4970 0 0 373 0 4 0 0 5348 416 0 240			7 0 0 0 0 0 92 0 253 0	111 9 99 LOSS 125 0 0 0 0 2411 0 349 0 0 0 714 0 0.32 228 0	GAIN 111 0 0 0 47 0 173 0 0 331	7 111 777 LOS: 0 0 0 0 0 7 125 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 0 173 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 6 0 0 20 174 0 0 0 0	20 11 220 LOSS 357 107 0 0 481 455 0 0 0 0 0 1400 0.54 759	GAIN 317 249 0 0 0 93 88 0 0 0 0 7466 58 0 0 0	0 0 0 0 20 307 0 0 0	28 12 3366 LOS: 161 0 0 0 481 803 0 0 0 0 0 1445 0.54 783	3 GAIN 143 0 0 0 93 155 0 0 0 0 391			0 0 0 0 0 0 218 0 0	WOD 38 9 342 LOSS 179 0 0 0 0 728 0 0 0 906	GAIN 158 0 0 0 0 0 141 0 0	L L 5 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BAS 182 9 1206 .OSS GAIN 89 79 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

I REVIEW AND TAKE RESPONSIBILITY FOR THE DESIGN WORK AND AM QUALIFIED IN THE APPROPRIATE CATEGORY AS AN "OTHER DESIGNER" UNDER DIVISION C, 3.2.5 OF THE BUILDING CODE.

LOSS DUE TO VENTILATION LOAD BTU/H: 2354

TONS: 3.51

Michael Oxounte. INDIVIDUAL BCIN: 19669 MICHAEL O'ROURKE

STRUCTURAL HEAT LOSS: 49046

TOTAL COMBINED HEAT LOSS BTU/H: 51399



SITE NAME: LECCO RIDGE BUILDER: GREENPARK HOMES								TYPE:	LOT 149 JUNIPER				DATE:	Jun-17			GFA:	3137	LO#	74046				
HEATING CFM TOTAL HEAT LOSS AIR FLOW RATE CFM	49,046 26.83		TOTAL H	LING CFM EAT GAIN RATE CFM	41,646 31.6		а	furr a/c coil vailable	pressure nace filter pressure pressure s/a & r/a	0.6 0.05 0.2 0.35						,		SPEED LOW	* <b>AMANA</b> <b>80</b> 1316		OUTPUT	(BTU/H) = (BTU/H) =	76,800	
RUN COUNT S/A	4th 0	3rd 0	2nd 12	1st 8	Bas 5		ple	enum pre	ssure s/a	0.18		r/a	pressure	0.17				EDLOW MEDIUM	0 1389		DESI	GN CFM = CFM @ .	1316 6 " E.S.P.	-
R/A All S/A diffusers 4"x10" unle	0 ess note	0 d otherwi	4	2 Out	1		max	s/a dif pr	ress. loss ssure s/a	0.03 0.15		grille pre	ess. Loss ssure r/a				MEDIU	M HIGH HIGH	0 1396	т	EMDEDAT	URE RISE	54	°F
All S/A runs 5"Ø unless not		wise on la	ayout.				IIIII auju																	
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 (ff/min) COOLING VELOCITY (ff/min) OUTLET GRILL SIZE TRUNK	MBR 1.25 34 2.13 67 0.17 57 140 197 0.09 5 250 492 3X10 A	2 ENS 0.88 24 0.95 30 0.17 29 170 199 0.09 4 275 344 3X10 B	3 WIC 0.56 15 0.55 17 0.17 49 120 169 0.1 4 172 195 3X10 B	4 BED-2 2.23 60 3.78 119 0.15 43 130 0.09 <b>6</b> 306 607 4X10 D	5 BED-3 2.09 56 3.41 108 0.15 41 140 0.08 <b>6</b> 286 551 4X10 C	6 BED-4 1.12 30 1.94 61 0.17 21 190 211 0.08 5 220 448 3X10 D	BATH 0.74 20 0.47 15 0.17 50 130 180 0.1 4 229 172 3X10 D	8 BED-3 2.09 56 3.41 108 0.15 46 170 216 0.07 <b>6</b> 286 551 4X10 C	9 ENS 0.88 24 0.95 30 0.17 27 180 207 0.08 4 275 344 3X10 D	10 MBR 1.25 34 2.13 67 0.17 47 130 177 0.1 5 250 492 3X10 B	11 ENS-2 1.60 43 2.24 71 0.17 49 120 169 0.1 5 316 521 3X10 D	12 OFF 2.12 57 3.34 106 0.16 29 110 0.12 5 419 778 3X10 C	13 LV/DN 2.05 55 2.32 73 0.17 7 130 0.13 5 404 536 3X10 D	14 KT/FM 2.10 56 2.88 91 0.16 44 150 194 0.08 <b>6</b> 286 464 4X10 A	15 KT/FM 2.10 56 2.88 91 0.16 31 110 0.11 5 411 668 3X10 B	16 KT/FM 2.10 56 2.88 91 0.16 23 130 153 0.11 5 411 668 3X10 B	17 LAUN 0.94 25 1.60 51 0.17 42 130 172 0.1 4 287 585 3X10 A	18 W/R 0.48 13 0.29 9 0.17 22 160 0.09 4 149 103 3X10 C	19 FOY 2.16 58 1.05 33 0.17 34 120 0.11 4 665 379 3X10 C	20 MUD 2.23 60 1.38 44 0.17 39 110 0.12 4 688 505 3X10 A	21 BAS 3.62 97 0.21 7 0.16 40 130 0.1 <b>6</b> 495 36 4X10 A	22 BAS 3.62 97 0.21 7 0.16 16 120 0.12 5 712 5 712 5 718 8	23 BAS 3.62 97 0.21 7 0.16 12 120 0.12 5 712 51 3X10 D	24 BAS 3.62 97 0.21 7 0.16 26 100 126 0.13 5 712 51 3X10 C
RUN # ROOM NAME RM LOSS MBH. CFM PER RUN HEAT RM GAIN MBH. CFM PER RUN COOLING ADJUSTED PRESSURE ACTUAL DUCT LCH. EQUIVALENT LENGTH TOTAL EFFECTIVE LENGTH ADJUSTED PRESSURE ROUND DUCT SIZE HEATING VELOCITY (ft/min) COOLING VELOCITY (ft/min) OUTLET GRILL SIZE TRUNK	25 BAS 3.62 97 0.21 7 0.16 28 130 158 0.1 <b>6</b> 495 36 4X10 B																				ı	OWN C	30, 2017 7101	ON 7
SUPPLY AIR TRUNK SIZE																	RETURN A	IR TRUNK						
TRUNK A TRUNK B TRUNK C TRUNK D TRUNK E TRUNK F	TRUNK CFM 272 651 337 666 0	STATIC PRESS. 0.08 0.08 0.07 0.07 0.00 0.00	8.6 11.9 9.6 12.5 0	8 16 10 18 0	x x x x x	8 8 8 8 8	VELOCITY (ft/min) 612 732 607 666 0		TRUNK G TRUNK H TRUNK I TRUNK J TRUNK K TRUNK L	TRUNK CFM 0 0 0 0 0 0	STATIC PRESS. 0.00 0.00 0.00 0.00 0.00 0.00 0.00	ROUND DUCT 0 0 0 0 0	DUCT 0 0 0 0 0 0 0	x x x x x	8 8 8 8	VELOCITY (ff/min) 0 0 0 0 0	TRUNK O TRUNK P TRUNK Q TRUNK R TRUNK S TRUNK T TRUNK U TRUNK V	TRUNK CFM 0 0 0 0 0 0 0 0 0	STATIC PRESS. 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0	ROUND DUCT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	DUCT 0 0 0 0 0 0 0 0 0 0 0	x x x x x x	8 8 8 8 8	VELOCITY (ft/min) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
RETURN AIR #  AIR VOLUME PLENUM PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH TOTAL EFFECTIVE LH ADJUSTED PRESSURE ROUND DUCT SIZE INLET GRILL SIZE  INLET GRILL SIZE	1 0 155 0.15 63 195 258 0.06 7.5 8 X	2 0 185 0.15 52 145 197 0.08 7.5 8 X	3 0 175 0.15 52 170 222 0.07 7.5 8 X 14	4 0 90 0.15 52 175 227 0.07 5.9 8 X 14	5 0 155 0.15 46 200 246 0.06 7.5 8 X	6 0 335 0.15 23 185 208 0.07 9.6 8 X 30	0 0 0.15 1 0 1 14.80 0 0 X	0 0 0.15 1 0 1 14.80 0 0 X	0 0 0.15 1 0 1 14.80 0 0 X	0 0 0.15 1 0 1 14.80 0 0 X	0 0 0.15 1 0 1 14.80 0 0 X	0 0 0.15 1 0 1 14.80 0 0 X	0 0 0.15 1 0 1 14.80 0 0 X	0 0 0.15 1 0 1 14.80 0 0 X	0 0 0.15 1 0 1 14.80 0 0 X	221 0.15 14 145 159 0.09 7.7 8 X 24	TRUNK W TRUNK X TRUNK Y TRUNK Z DROP	0 1141 645 310 1316	0.06 0.06 0.06 0.06 0.06	0 15.8 12.8 9.7 16.7	0 30 20 12 24	x x x x x	8 8 8 8 12	0 685 581 465 658



TYPE: SITE NAME: JUNIPER 7

LECCO RIDGE

LO#

74046 LOT 149

RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

COMBUSTION APPLIANCES	9.32.3.1(1)	SUPPLEMENTAL VI	ENTILATION CAPACITY		9.32.3,5,
a) Direct vent (sealed combustion) only		Total Ventilation Cape	ecity	201.4	cfm
b) Positive venting induced draft (except fireplaces)	-	Less Principal Ventil.	Capacity	86	cfm
c) Natural draft, B-vent or induced draft gas fireplace	and the state of t	Required Supplement	tal Capacity	115.4	_ cfm
d) Solid Fuel (including fireplaces)					
e) No Combustion Appliances		PRINCIPAL EXHAUS	ST FAN CAPACITY		
		Modal:	VANEE 40H+	Location:	BSMT
HEATING SYSTEM		86.0	cfm 3.0 sones	6	HVI Approved
Forced Air Non Forced Air			ST HEAT LOSS CALCULATION		
		CFM 86.0 CFM	ΔT*F X 72 F X	FACTOR 1.08	% LOSS X 0.35
Electric Space Heat		SUPPLEMENTAL FA	Me	NUTONE	
	I	Location	Model	cfm	HVI Sones
HOUSE TYPE	9.32.1(2)	ENS	OTXEN050C	50	✓ 0.3
Type a) or b) appliance only, no solid fuel		BATH	OTXEN050C	50	✓ 0.3 ✓ 0.3
Type a) or b) appliance only, no solid fuel		ENS-2 W/R	OTXEN050C OTXEN050C	50 50	✓ 0.3 ✓ 0.3
II Type I except with solid fuel (Including fireplaces)					
III Any Type c) appliance		HEAT RECOVERY V Modal:	ENTILATOR  VANEE 40H+		9.32.3.11.
IV Type I, or If with electric space heat		86	cfm high	37	cfm low
		65	% Sensible Efficiency		✓ HVI Approved
Other: Type I, II or IV no forced air			@ 32 deg F ( 0 deg C)		
SYSTEM DESIGN OPTIONS	O.N.H.W.P.	LOCATION OF INST	ALLATION	RI	ECEIVED
S 15 IEM DESIGN OF HONS	O.N.H.VV.P.	Lot:			N OF MILTON
1 Exhaust only/Forced Air System		Township			AY 30, 2017
2 HRV with Ducting/Forced Air System		TOWNSHIP		Pli	17-7101
3 HRV Simplified/connected to forced air system		Address		BUILE	DING DIVISION
4 HRV with Ducting/non forced air system		Roll#		TOWN	OF MILTON
		BUILDER:		NG AND D	DEVELOPMENT RMIT: 17-7101
Part 6 Design		Name:	BUILDING: REV		(WIT: 17-7 101
TOTAL VENTILATION CAPACITY	9.32.3.3(1)	Address:	SCOTT SHERR	RIFFS	JUN 15, 2017
	5.52.5.0(1)	A44; 633.	PLANS EXAMINER Neither the issuance	of a permit no	DATE r carrying out of
Basemant + Mastar Bedroom 2 @ 21.2 cfm 42.4	cfm	City:	full responsibility for o	compliance wit	
Other Bedrooms 3 @ 10.6 cfm 31.8	cfm	Telephone #:	the Ontario Building ( Code, both as amend		
Kitchen & Bathrooms 5 @ 10.6 cfm 53	cfm	INSTALLING CONTR	statutes and regulation By-laws of the Region		
Other Rooms 7 @ 10.6 cfm 74.2	cfm	Name:			
Table 9.32.3.A. TOTAL <u>201.4</u>	cfm	Address:			
		City:			
PRINCIPAL VENTILATION CAPACITY REQUIRED	9.32.3.4.(1)	Telephone #:		F #4	
1 Bedroom 31.8 cfm		Telephone #:		Fex #:	
2 Bedroom 47.7 cfm			is ventilation system has been de	signed	
3 Bedroom 63,6 cfm		in accordanca with the Name:	e Ontario Building Code. HVAC Designs Ltd.		
4 Bedroom 79.5 cfm		Signature:	Muhan	1 Ofmbe	<b>€</b> ±
5 Bedroom 95.4 cfm		HRAI#	···	001820	
More than 5 - Part 6 TOTAL 79.5 cfm		Date:		May-17	
I REVIEW AND TAKE RESPONBILITY FOR THE DESIGN WORK AND AM QUAL	IFIED IN THE APP	ROPRIATE CATEGORY AS AN "C	OTHER DESIGNER" UNDER DIVISION C. 3	25 OF THE BUIL	DINGCODE



Web: www.hvacdesigns.ca E-mail: info@hvacdesigns.ca

#### **HEAT LOSS AND GAIN SUMMARY SHEET**

MODEL:	JUNIPER 7	L	OT 149	BUILDER: GREENPARK HOMES	
SFQT:	3137	LO# 7	4046	SITE: LECCO RIDGE	
DESIGN A	SSUMPTIONS				
HEATING			٩F	COOLING	°F
	R DESIGN TEMP.		0	OUTDOOR DESIGN TEMP.	86
INDOOR E	DESIGN TEMP.		72	INDOOR DESIGN TEMP. (MAX 75°F)	72
BUILDING	DATA				
ATTACHM	IENT:		ETACHED	# OF STORIES (+BASEMENT):	3
FRONT FA	ACES:	•	EAST	ASSUMED (Y/N):	Υ
AIR CHAN	GES PER HOUR:		3.57	ASSUMED (Y/N):	Υ
AIR TIGHT	TNESS CATEGORY:		AVERAGE	ASSUMED (Y/N):	Y
WIND EXF	POSURE:	SI	HELTERED	ASSUMED (Y/N):	Υ
HOUSE VO	OLUME (ft³):		42433.0	ASSUMED (Y/N):	Υ
INTERNAL	SHADING:	BLINDS/	CURTAINS	ASSUMED OCCUPANTS:	5
INTERIOR	LIGHTING LOAD (Btu/	n/ft²):	1.40	DC BRUSHLESS MOTOR (Y/N):	Υ
FOUNDAT	TION CONFIGURATION		BCIN_1	DEPTH BELOW GRADE:	6.0 ft
LENGTH:	51.0 ft	WIDTH:	40.0 ft	EXPOSED PERIMETER:	182.0 ft

2012 OBC - COMPLIANCE PACKAGE			
Component			Compliance Package ENERGYSTAR
Ceiling with Attic Space Minimum RSI (R)-Value			50
Ceiling Without Attic Space Minimum RSI (R)-Value			31
Exposed Floor Minimum RSI (R)-Value			31
Walls Above Grade Minimum RSI (R)-Value			20 + 5
Basement Walls Minimum RSI (R)-Value			20
Below Grade Slab Entire surface > 600 mm below grade Minimum F	RSI (R)-V	alue	-
Edge of Below Grade Slab ≤ 600 mm Below Grade Minimum RSI (R)-	-Value		10
Heated Slab or Slab ≤ 600 mm below grade Minimum RSI (R)-Value			10
Windows and Sliding Glass Doors Maximum U-Value		RECEIVED	ZONE 2
Skylights Maximum U-Value		TOWN OF MILTON	ZONE 2
Space Heating Equipment Minimum AFUE		MAY 30, 2017 17-7101	0.95
HRV Minimum Efficiency			65%
Domestic Hot Water Heater Minimum EF	L	BUILDING DIVISION	90% TE

INDIVIDUAL BCIN: 19669 MICHAEL O'ROURKE





# **Residential Foundation Thermal Load Calculator**

Supplemental tool for CAN/CSA-F280

Wea	ther Sta	ntion Description							
Province:	Ontario	•							
Region:	Milton								
	Site D	<b>Description</b>							
Soil Conductivity:	Normal	conductivity: dry dand, loam, clay							
Water Table:	Normal	(7-10 m, 23-33 ft)							
Foundation Dimensions									
Floor Length (m):	15.5								
Floor Width (m):	12.2								
Exposed Perimeter (m):	0.0								
Wall Height (m):	2.7								
Depth Below Grade (m):	1.8	Insulation Configuration							
Window Area (m²):	1.4								
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	ation Loads							
Heating Load (Watts):		1815							

**TYPE:** JUNIPER 7 **LO#** 74046

LOT 149

RECEIVED TOWN OF MILTON MAY 30, 2017 17-7101 BUILDING DIVISION



## **Air Infiltration Residential Load Calculator**

Supplemental tool for CAN/CSA-F280

Weather S	Station Description
Province:	Ontario
Region:	Milton
Weather Station Location:	Open flat terrain, grass
Anemometer height (m):	10
Loc	cal Shielding
Building Site:	Suburban, forest
Walls:	Heavy
Flue:	Heavy
Highest Ceiling Height (m):	7.01
Buildin	g Configuration
Туре:	Detached
Number of Stories:	Two
Foundation:	Full
House Volume (m³):	1241.8
Air Leak	kage/Ventilation
Air Tightness Type:	Present (1961-) (3.57 ACH)
Custom BDT Data:	ELA @ 10 Pa. 1655.3 cm <sup>2</sup>
	3.57 ACH @ 50 Pa
Mechanical Ventilation (L/s):	Total Supply Total Exhaust
	40.6 40.6
	Flue Size
Flue #:	#1 #2 #3 #4
Diameter (mm):	0 0 0 0
Natural	Infiltration Rates
Heating Air Leakage Rate (ACH	I/H): 0.316
Cooling Air Leakage Rate (ACH	/H): <b>0.108</b>

**TYPE:** JUNIPER 7 **LO#** 74046

LOT 149

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- **RESIDENTIAL HVAC (New Construction)** 1) All HVAC work shall comply with Part 6 4) All supply/return air ducts located in and 9.32/9.33.
- 2) Supply or return air ducts not protected by an insulated exterior wall shall me insulated to a minimum 2.1 RSI (R-12)
- 3) Exhaust ducts (principle, supplemental & other exhaust fans) passing through unheated space shall be insulated to a minimum 0.5 RSI (R-3)
- unconditioned spaces shall be sealed to a SMACNA Class 'A' seal level and supply air ducts in conditioned spaces to shall be sealed to a SMACNA Class "C' seal level
- 5) Furnaces to be equipped with brushless DC motor (ECM) and controlled with a programmable thermostat (4 times periods/day, 2 day types/week)
- 6) HRVs to be installed in accordance with 9.32.3.11. and manufacturers' requirements (intake/exhaust separation, distance from R/A drop)
- 7) Bathrooms and washrooms to have a min. 50 CFM exhaust fan ducted directly outdoors with ductwork sized in accordance with Table 9.32.3.5.
- 8) Range hoods to exhaust directly to outdoors with non-combustible ducting
- 9) Changes to the HVAC equipment or duct layout requires a revision permit to be applied for and approved prior to booking any HVAC inspections

RECEIVED TOWN OF MILTON MAY 30, 2017 17-7101

**BUILDING DIVISION** 

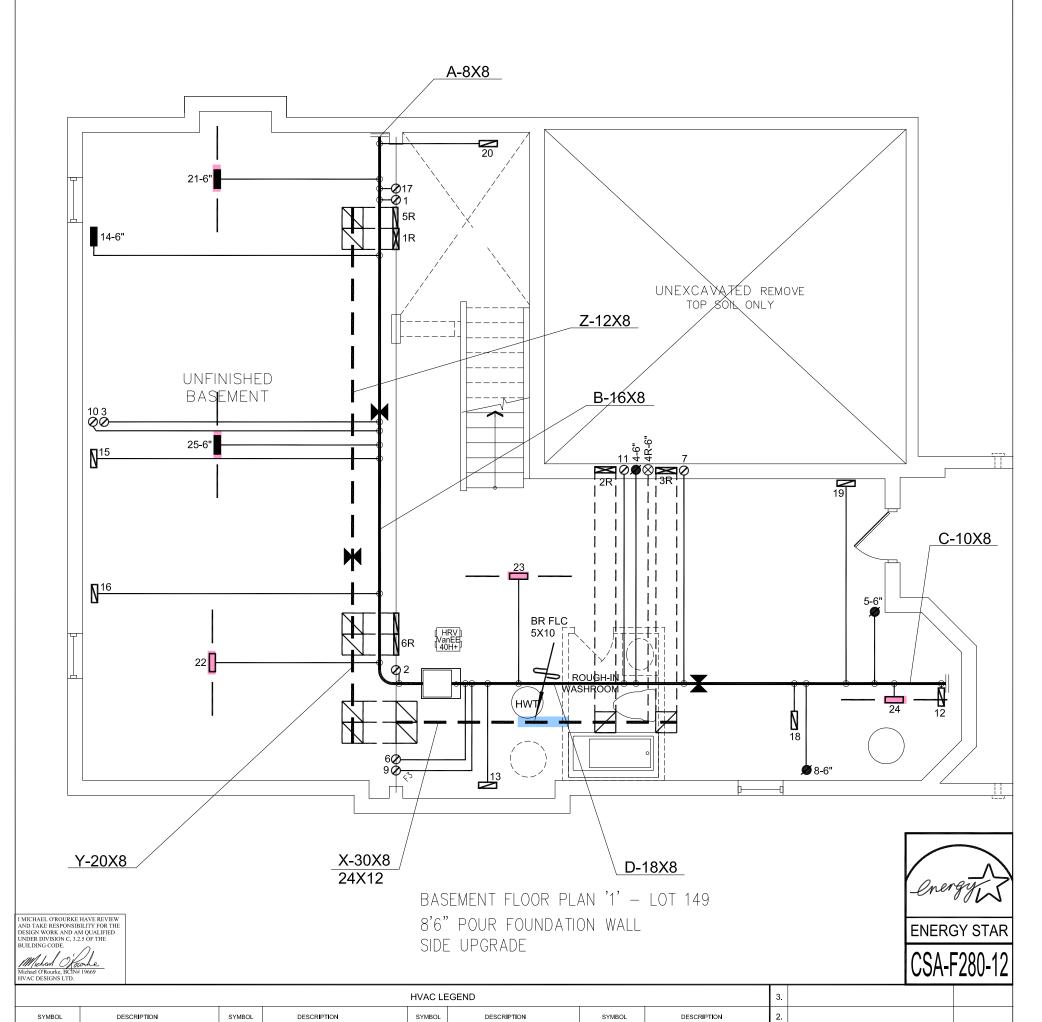
**TOWN OF MILTON** PLANNING AND DEVELOPMENT BUILDING PERMIT: 17-7101

**BUILDING: REVIEWED** SCOTT SHERRIFFS

PLANS EXAMINER

JUN 15, 2017

Neither the issuance of a permit nor carrying out of aspections by the Town of Milton relives the owner from all responsibility for compliance with the provisions of the Ontario Building Code Act and the Ontario Building Code, both as amended, as well as other applicable tatutes and regulations of the Province on Ontario, By-laws of the Region of Halton and Town of Milton



SUPPLY AIR STACK FROM 2nd FLOOR  $\sim$ 0 No. Description Date RETURN AIR STACK 2nd FLOOR FRA- FLOOR RETURN AIR GRILLE SUPPLY AIR BOOT ABOVE **REVISIONS** 9 6" SUPPLY AIR STACK 2nd FLOOR ALL DRAWINGS, CALCULATIONS AND SPECIFICATIONS ARE THE PROPERTY OF HVAC DESIGNS LTD. AND MAY NOT BE REPRODUCED, MODIFIED OR ALTERED WITHOUT EXPRESSED WRITTEN CONSENT. THE DRAWINGS ARE DATED AND USE OF THESE DRAWINGS AFTER ONE YEAR FROM THE DATED NOTED IS NOT AUTHORIZED. CONTRACTOR SHALL CHECK ALL CONDITIONS BEFORE PROCEEDING WITH WORK. LATEST MUNICIPAL APPROVED DRAWINGS ONLY TO BE USED DURING INSTALLATION OF HEATING SYSTEM. HVAC DESIGNS LTD. IS NOT LIABLE FOR ANY CLAIMS ARISING FROM UNAUTHORIZED USE OF THE DRAWINGS OR FROM ANY CHANGES TO ACCEPTED STANDARDS AND/OR THE

14"x8" RETURN AIR GRILLE

30"x8" RETURN AIR GRILLE

FAN SPEED

1316

GREENPARK HOMES

FLOOR SUPPLY AIR GRILLE

FLOOR SUPPLY AIR GRILLE 6" BOOT

Proiect Name

- 🗆

LECCO RIDGE MILTON, ONTARIO

ONTARIO BUILDING CODE

**LOT 149** JUNIPER 7



6" SUPPLY AIR BOOT ABOVE

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.

		OSS 51399	BTU/H	# OF RUNS	S/A	R/A	FANS	Sh		
		UNIT DATA		3RD FLOOR						
	MAKE	AMANA		2ND FLOOR	12	4	4			
	MODEL AMV	C960804CN	A	1ST FLOOR	8	2	2			
	INPUT	80	MBTU/H	BASEMENT	5	1	0	Da		
	OUTPUT		MBTU/H	ALL S/A DIFFU	SERS	4 "x10	)"	Sc		
	COOLING	76.8		UNLESS NOTE						
)		3.5	TONS	UNLESS NOTED OTHERWISE						

cfm @ 0.5" w.c.

ON LAYOUT. UNDERCUT

DOORS 1" min. FOR R/A

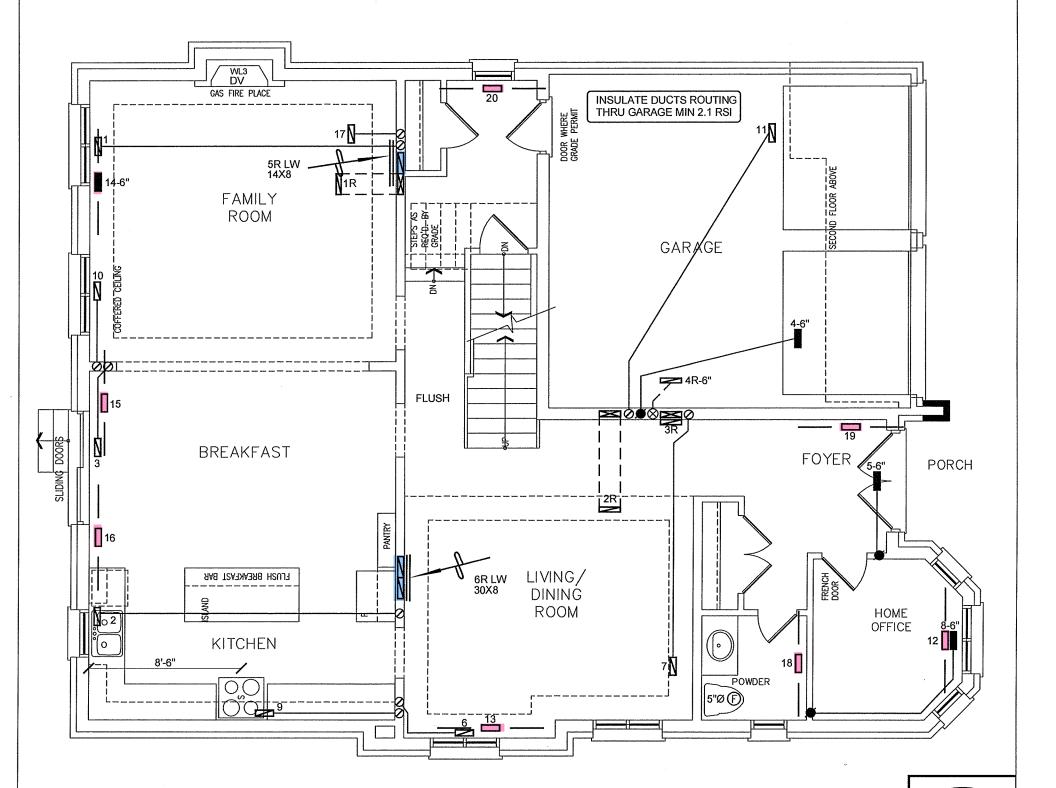
RETURN AIR STACK ABOVE

IS	Sheet Title										
	BASEMENT										
	HEATING										
	· <del>-</del>	_AYOUT									
	L	ATOUT									
	Date	MAY/2017									
	Scale	3/16" = 1'-0"									
Ø	В	CIN# 19669									
	LO#	74046									



**RECEIVED** OWN OF MILTON MAY 30, 2017 17-7101 **BUILDING DIVISION** 

ode, both as amended, as well as other applicable utes and regulations of the Province on Ontario, laws of the Region of Halton and Town of Milton



FIRST FLOOR PLAN '1'-LOT 149 10 FOOT CEILING SIDE UPGRADE

-energy S **ENERGY STAR** 

			3.							
SYMBDL	DESCRIPTION	SYMBOL.	DESCRIPTION	SYMBDL	DESCRIPTION	SYMBOL	DESCRIPTION	2.		
	FLOOR SUPPLY AIR GRILLE	-	6" SUPPLY AIR BOOT ABOVE		14"x8" RETURN AIR GRILLE		RETURN AIR STACK ABOVE	1.		
	FLOOR SUPPLY AIR GRILLE 6" BOOT	Ø	SUPPLY AIR STACK FROM 2nd FLOOR		30"x8" RETURN AIR GRILLE	<b>⊠</b>	RETURN AIR STACK 2nd FLOOR	No.	Description	Date
8	SUPPLY AIR BOOT ABOVE 6" SUPPLY AIR STACK 2nd FLOOR FRA- FLOOR RETURN AIR GRILLE REDUCER								REVISIONS	

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### **GREENPARK HOMES**

LECCO RIDGE MILTON, ONTARIO

**LOT 149** JUNIPER 7

# 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 3137 sqft adequately insulated and be gas-proofed.

,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
FIRST FLOOR
HEATING
LAYOUT

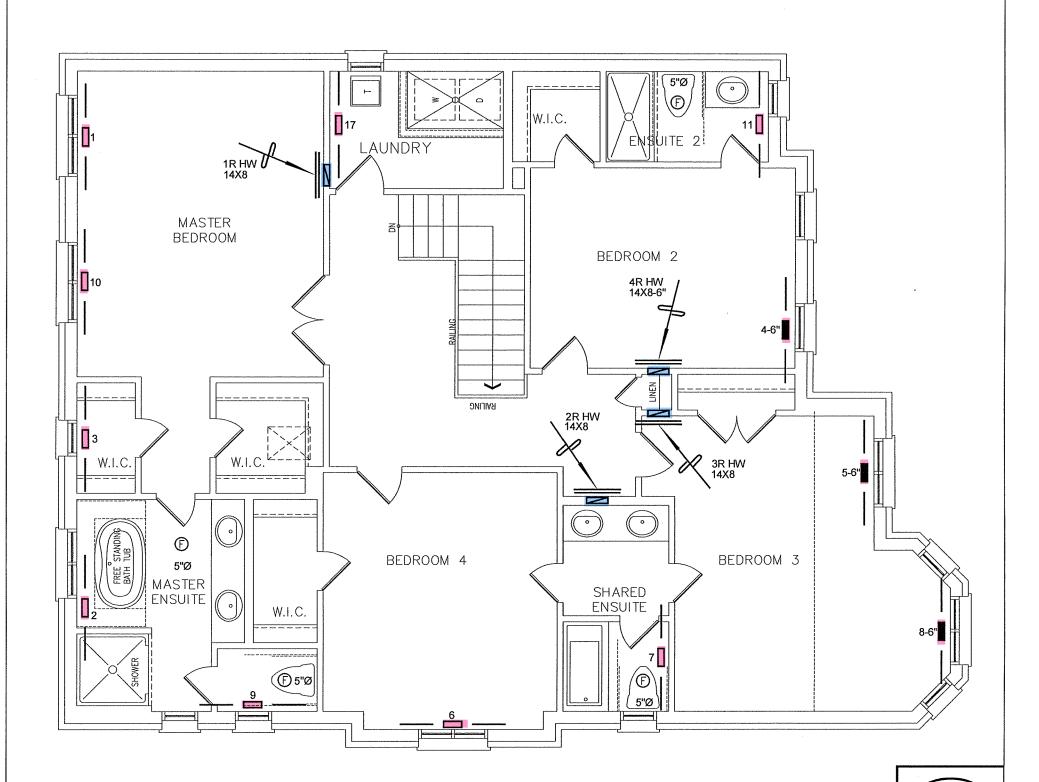
MAY/2017 3/16" = 1'-0"

BCIN# 19669

74046 LO#

**RECEIVED** TOWN OF MILTON MAY 30, 2017 17-7101 **BUILDING DIVISION** 

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SECOND FLOOR PLAN '1"-LOT 149 SIDE UPGRADE 10' HIGH FIRST FLOOR

-energy S **ENERGY STAR** 

		3.								
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBDL	DESCRIPTION	SYMBOL	DESCRIPTION	2.		
	FLOOR SUPPLY AIR GRILLE		6" SUPPLY AIR BOOT ABOVE		14"x8" RETURN AIR GRILLE	8	RETURN AIR STACK ABOVE	1.		
	FLOOR SUPPLY AIR GRILLE 6" BOOT	0	SUPPLY AIR STACK FROM 2nd FLOOR		30"x8" RETURN AIR GRILLE	· DEED	RETURN AIR STACK 2nd FLOOR	No.	Description	Date
SUPPLY AIR BOOT ABOVE # 6" SUPPLY AIR STACK 2nd FLOOR FRA- FLOOR RETURN AIR GRILLE REDUCER									REVISIONS	

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### **GREENPARK HOMES**

Project Name

LECCO RIDGE MILTON, ONTARIO

**LOT 149** JUNIPER 7

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Sheet Title
SECOND FLOOR
HEATING
LAYOUT

MAY/2017 3/16" = 1'-0"

BCIN# 19669

74046 LO#