

SITE NAME:	LECCO	RIDGE														DA TE: C							LAIRC							S ΔT°F.				CSA-F2	
BUILDER		ARK H			.,		TYPE:	JUNIPER	89			GFA:				LO# 7					IER N		LAIRC	HANGE						V ΔT°F.	. 14			ENERGY	STAR
ROOM USE				BR		ENS				1	BED-2	2		BED-3	- 1	E	ED-4	1.	BAT	Н		BE			ENS-4			ENS-2	2						
EXP. WALL				36		28				1	15			33			38		7			14			16			9		l					
CLG. HT.		.	1	10		9				1	9			10	- 1		10		9		ı	9			9			9							
	FACTOR														- 1								_												
GRS.WALL AREA		SAIN		60		252					135			330			380		63			12		.	144			81		.					
GLAZING	l .			SS GAIN	1	LOSS				١	LOSS			LOSS			OSS GAI			S GAI			S GAIN	1	LOSS		1		GAIN	1					
NORTH	I		•	0 0	9		143			15	268	238	0	0	0	0	0 0					0		0	0	0	0	0	0						
EAST	1	41.4	-	0 0	0	0	0			0	0	0	48	857 0	1988		643 149 303 42		-	0	1 -	23		11	196 0	456 0	0	125	0 173	.					
SOUTH WEST				0 0	0	•	٠,١			0	0	0	١	0	ö	0	0 0		. 0	0	10	0		0	0	0	\ <u>`</u>	0	0	` 					
SKYLT				07 1408 0 0	18	321 0	746 0			0	0	0	١٥	0	١	0	0 0	1 -	-	0	1 -	0	-	0	0	n	0	0	0						- 1
DOORS	l .		-	0 0	0	0	0			١٥	0	0	١٥	0	ö	0	0 0		-	0	1 -	0	-	0	0	0	0	0	Ö						
NET EXPOSED WALL	2.6		-	53 165	225	589	114			120	314	61	282	-	143	-	856 16		-					133	348	67	74	194							
NET EXPOSED BSMT WALL ABOVE GR	3.3	1		0 0	0	0	0	l		1 0	0	0	0	0	0	0	0 0			0		0		0	0	0	0	0	0						
EXPOSED CLG			-	34 216	159	219	109			265	365	182	233	•	160	-	360 17							114	157	78	180	248							- 1
NO ATTIC EXPOSED CLG		- 1		0 0	28	63	31	l		0	0	0	18	40	20	30	67 33			0		0		0	0	0	0	0	0	1					
EXPOSED FLOOR	1			0 0	0	0	0	1		0	0	Ó	251		106	0	0 0			3 47	, 0	0	0	0	0	0	0	0	0	İ					
BASEMENT/CRAWL HEAT LOSS			-	0		0					0		1	0			0		0		1	0		1	0			0							
SLAB ON GRADE HEAT LOSS	1			0	1	0		1		1	0			0			0		0		1	0		1	0			0		1					
SUBTOTAL HT LOSS			18	394	1	1353		1		1	947			2507		:	2229		717	7	ı	82	5	1	701			567							
SUB TOTAL HT GAIN				1789			1142			1		480			2417		229			28			527			601			334						
LEVEL FACTOR / MULTIPLIER		0	.20 0	.32	0.20	0.32		1		0.20	0.32		0.20		- 1	0.20		0.2	20 0.3		0.2	0 0.3		0.20	0.32		0.20								
AIR CHANGE HEAT LOSS			6	15		439					307			814	- 1		723		233	3		26	8		228			184							i
AIR CHANGE HEAT GAIN				161			103					43			218		20	6		26	3		47			54			30						
DUCTLOSS				0		0					0			332			0		95			0			0			0							
DUCT GAIN				0			0			1		0			372		0			31	- 1		0			0			0						
HEAT GAIN PEOPLE	1		2	480	0		0			1		240	1		240	1	24	0 0	П	0	1		240	0		0	0		0						- 1
HEAT GAIN APPLIANCES/LIGHTS				845			0			1		845			845		84	5		. 0			845			0			0						
TOTAL HT LOSS BTU/H		- 1	25	509		1792	- 1	l			1254			3652	- 1		2952		104	5		109	93	1	929		l	750		1					
	.1	- 1			. 1		1	1													_ I			.			1								
TOTAL HT GAIN x 1.3 BTU/H				4257	<u>' </u>		1618					2090	L		5318		468	55		44	7		215	·L		852			473	<u></u>			<u></u>		
	1				<u>'</u> T		1618	к.	T/FM	<u> </u>	LAUN		l		5318		468	55			7		215	·		852	l		473	<u> </u>	WOD			BAS	
ROOM USE			LV	/IDN	<u>' </u>	OFF	1618	1	T/FM 76		LAUN 21			W/R	5318		468 FOY	55			7		215			852			473	<u>I</u>	WOD 38			BA S 194	
			LV	7/DN 21	<u>' </u>	OFF 37	1618		75		LAUN 21 11				5318		468	55			7		215			852			473		WOD 38 10			BAS 194 10	
ROOM USE EXP. WALL		ıs	LV	/IDN		OFF	1618				21			W/R 10	5318		468 FOY 33	55			7		215	·		852			473		38			194	
ROOM USE EXP. WALL	FACTOR		LV	7/DN 21		OFF 37	1618		75		21			W/R 10	5318		468 FOY 33	55			7		215			852			473		38			194	
ROOM USE EXP. WALL CLG. HT.	FACTOF		LV 2	7/DN 21 10		OFF 37 10		;	75 10	N	21 11 231			W/R 10 10			468 FOY 33 10				7		215			852			473		38 10	GAIN		194 10 1375	GAIN
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA	FACTOF LOSS G	AIN	LV 2 LC	7/DN 21 10		OFF 37 10		; L(76 10 760	N 9	21 11 231	l		W/R 10 10			468 FOY 33 10	ıın			7		215			852			473	0	38 10 361	GAIN 0	9	194 10 1375	GAIN 143
ROOM USE EXP. WALL CLG. HT. GR S.WALL AREA GLAZING	FACTOR LOSS O	AIN	LV 2 LC 0	7/DN 21 10 210 210 258 GAIR	1	OFF 37 10 370 LOSS 0	GAIN	; L(76 10 750 OSS GA		21 11 231 LOSS	i GAIN		W/R 10 10 100 LOSS	GAIN	1	FOY 33 10 330 .OSS GA 0 0 357 82	LIN)			7		215							0 0	38 10 361 LOSS		9	194 10 1375 LOSS	
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH	FACTOR LOSS 0 17.9 17.9 17.9	15.8 41.4 24.8	LV 2 LC 0 0 0 38 6	7/DN 21 10 110 25S GAIN 0 0	1 0 39 0	OFF 37 10 370 LOSS 0 696 0	GAIN 0 1615 0	0 0 0	75 10 750 OSS GA 0 0 0 0	9 0 0	21 11 231 LOSS 161 0	GAIN 143 0		W/R 10 10 100 LOSS 0 0	GAIN 0 0	0 20 0	FOY 33 10 330	LIN) 28			7			TC)WN	OF			DN	0 0 0	38 10 361 LOSS 0 0	0 0 0	9 0	194 10 1375 LOSS 161	143 0 0
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EASTI SOUTH	FACTOR LOSS 0 17.9 17.9 17.9	15.8 41.4 24.8 41.4	LV 2 LC 0 0 0 38 6 0	7/DN 21 10 20 21 21 20 20 20 20 20 20 20 21 21 21 21 21 21 21 21 21 21 21 21 21	0 39 0	OFF 37 10 370 LOSS 0 696 0	GAIN 0 1615 0	0 0 0 0 105 1	75 10 750 OSS GA 0 0 0 0 874 434	9 0	21 11 231 LOSS 161 0 0	GAIN 143 0 0	0 0 0	W/R 10 10 100 LOSS 0 0	GAIN 0 0 0	0 20 0	466 FOY 33 10 330 .OSS GA 0 0 357 82 0 0	LIN) 28)		44		PL	2153	TC	ND E	OF	LOF	MEI	ON NT	0 0 0	38 10 361 LOSS 0 0	0 0 0	9 0 0	194 10 1375 LOSS 161 0 0	143 0 0 0
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST	FACTOR LOSS 0 17.9 17.9 17.9 17.9 30.6	AIN 15.8 41.4 24.8 41.4 01.2	2 2 LC 0 0 38 6 0	7/DN 21 10 25 GAIN 0 0 0 0 778 941 0 0 0 0	0 39 0 0	OFF 37 10 370 LOSS 0 696 0	GAIN 0 1615 0 0	0 0 0 0 105 1	76 10 750 OSS GAI 0 0 0 0 874 434 0 0	9 0	21 11 231 LOSS 161 0 0	GAIN 143 0 0	0 0 0 0	W/R 10 10 100 LOSS 0 0 0	GAIN 0 0 0 0	0 20 0 0	466 FOY 33 10 330 .OSS GA 0 0 357 82 0 0 0 0	LIN) 28)		44	MILTON	PL		TC	ND E	OF		MEI	ON NT	0 0 0 0 0	38 10 361 LOSS 0 0 0	0 0 0 0	0	194 10 1375 LOSS 161 0 0	143 0 0 0 0
ROOM USE EXP. WALL CLG. HT GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS	FACTOR LOSS 0 17.9 17.9 17.9 17.9 30.6	AIN 15.8 41.4 24.8 41.4 01.2 4.7	2 2 0 0 0 38 6 0	7/DN 21 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 39 0 0 0	OFF 37 10 370 LOSS 0 696 0 0	GAIN 0 1615 0 0	0 0 0 0 105 1 0	750 750 0SS GAI 0 0 0 0 0 0 874 434 0 0 0 0	9 0 0 0 0 0 20	21 11 231 LOSS 161 0 0 0	GAIN 143 0 0 0 0	0 0 0 0 0	W/R 10 10 100 LOSS 0 0 0 0	GAIN 0 0 0 0	0 20 0 0 0	468 FOY 33 10 330 .OSS GA 0 0 357 82 0 0 0 0 481 93	LIN) 28)))		44	MILTON			TC NG A	JUN	OF	LOF	MEI	ON NT	0 0 0 0 0 0 0	38 10 361 LOSS 0 0 0 0	0 0 0 0	0 20	194 10 1375 LOSS 161 0 0 0 481	143 0 0 0 0 0 93
ROOM USE EXP. WALL CLG. HT GR\$.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL	17.9 17.9 17.9 17.9 17.9 24.1 2.6	AIN 15.8 41.4 24.8 41.4 01.2 4.7 0.5	2 LV 2 LC 0 0 0 38 6 0 0 0	7/DN 21 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 39 0 0 0 0 331	OFF 37 10 370 LOSS 0 696 0 0 0	GAIN 0 1615 0 0 0 0	0 0 0 106 1 0 0	76 110 750 DSS GAI 0 0 0 0 0 0 874 434 0 0 0 0 0 0 688 32	9 0 0 9 0 0 20 20 202	21 11 231 LOSS 161 0 0 0 481 529	GAIN 143 0 0 0 0 93 102	0 0 0 0 0 0	W/R 10 10 100 LOSS 0 0 0 0 0	3AIN 0 0 0 0 0 0	0 20 0 0 0 20 20 20	468 FOY 33 10 330 .OSS GA 0 0 357 82 0 0 0 0 481 93 759 14	LIN) 28)))) 3		44	MILTON	DINC	ANNI G: RE	TC NG A	ND E JUN /ED	OF DEVE	R 9 N	MEI	DN NT DEL	0 0 0 0 0 0 0 0 0 0	38 10 361 LOSS 0 0 0 0	0 0 0 0 0 0	0 20 0	194 10 1375 LOSS 161 0 0 0 481	143 0 0 0 0 0 93
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL	17.9 17.9 17.9 17.9 24.1 2.6 3.3	AIN 15.8 41.4 24.8 41.4 01.2 4.7 0.5 0.6	2 LV 0 0 0 38 6 0 0 0 172 4	7/DN 21 10	0 39 0 0 0 0 331	OFF 37 10 370 LOSS 0 696 0 0 0	GAIN 0 1615 0 0 0 0 167	105 100 000 000 000 000 000 000 000 000	76 110 750 DSS GAI 0 0 0 0 0 0 874 434 0 0 0 0 0 0 688 32 0 0	9 0 0 0 0 20 20 20 0	21 11 231 LOSS 161 0 0 0 481 529 0	GAIN 143 0 0 0 93 102	0 0 0 0 0 0	W/R 10 10 100 LOSS 0 0 0 0 0 0 262	GAIN 0 0 0 0 0 0 0	0 20 0 0 0 20 290	468 FOY 33 10 330 .OSS GA 0 0 357 82 0 0 0 0 481 93 759 14	28 0 0 0 3 17		44'	MILTON	DINC FT S	ANNI 3: RE HERI	TC NG A	ND E JUN /ED	OF DEVE	LOF	MEI MOD 1, 20	ON NT DEL	0 0 0 0 0 0	38 10 361 LOSS 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 20 0 468	194 10 1375 LOSS 161 0 0 0 481	143 0 0 0 0 0 93 0 302
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EASTI SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BIM WALL ABOVE GR	17.9 17.9 17.9 17.9 30.6 24.1 2.6 3.3 1.4	AIN 15.8 41.4 24.8 41.4 01.2 4.7 0.5 0.6	LV 2 LC 0 0 0 38 6 0 0 0 172 4 0 0 0	7/DN 21 10	0 39 0 0 0 0 331 0	OFF 37 10 370 LOSS 0 696 0 0 0 866 0	GAIN 0 1615 0 0 0 167 0	0 0 0 105 1 0 0 645 1	750 OSS GA 0 0 0 0 0 0 874 434 0 0 0 0 688 32 0 0 14 7	9 0 0 0 0 20 20 20 0 0	21 11 231 LOSS 161 0 0 0 481 529 0	GAIN 143 0 0 0 93 102 0	0 0 0 0 0 100 0	W/R 10 10 100 LOSS 0 0 0 0 0 0 262 0	GAIN 0 0 0 0 0 0 51	0 20 0 0 0 20 290 0	468 FOY 33 10 330 .OSS GA 0 0 357 82 0 0 0 0 0 481 9:769 14 0 0 0 0	SIN)))))))))))))))))))		44************************************	MILTON BUIL BCOT PLANS	DINO FT S	ANNI G: RE HERI WINER	TC NG A VIEW	JUN /ED	OF DEVE IIPEI	R 9 M	MEI MOD 1, 20	DN NT DEL	0 0 0 0 0 0 0 228	38 10 361 LOSS 0 0 0 0 0 0 0 761	0 0 0 0 0 0 0 147	0 20 0	194 10 1375 LOSS 161 0 0 0 481 0 1562 0	143 0 0 0 0 0 93 0 302 0
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ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL HET EXPOSED CLG EXPOSED CLG NO A TTIC EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS AIR CHANGE HEAT GAIN DUCT GAIN HEAT GAIN PEOPLE	17.9 17.9 17.9 17.9 30.6 24.1 2.6 3.3 1.4 2.2 2.2	AIN 15.8 41.4 24.8 41.4 01.2 4.7 0.5 0.6 0.7 1.1 0.4	2 LV 2 2 LO 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7/IDN 21 10	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	OFF 37 10 370 LOSS 0 696 0 0 0 0 866 0 0 0 0 1562 0.61 961	GAIN 0 1615 0 0 167 0 0 0 1783	0 0 0 105 1 0 645 1 0 10 0 0	750 OSS GAI 0 0 0 0 0 0 874 434 0 0 0 14 7 0 0 0 14 7 0 0 0 576 468 .61 199 42 0 0 24	9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	21 11 231 LOSS 161 0 0 0 481 529 0 0 0 0 1170	GAIN 143 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 100 0 0 0	W/R 10 100 LOSS 0 0 0 0 0 0 0 262 0 0 0 0 161	GAIN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 20 0 0 0 0 20 290 0 0 0 0	FOY 33 10 330 OSS GA 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	288)))) 3 3 47)))) 668		E E S - F - N iri fit the C S s	BUILION BUILINGS COTANS Leither Inspect Ull respect Ull respect Ull respect that University of the Code, to t	DINO TT S EXAL the is consib ario B coth as	ANNI ANNI HERI MINER Suance y the To uilding s amen egulati	TC NG A Of a pee wwn of I complieit Complieit	JUN /ED S ermit no Milton r annoe wi Act and well as the Pro- latton an	OF DEVE IIIPER AF AF AF AF AF AF AF AF AF AF AF AF AF	ying out the ow provisintario Er applicon Ont yn of M	DA to of to of to of to of to of to of to of to of to of to of to of to of to of to	NT PEL D17 ATE rom of ng	0 0 0 0 0 0 0 228 0	38 10 361 LOSS 0 0 0 0 0 0 761 0	0 0 0 0 0 0 0 0 0 147 0 0	0 20 0 468 0 0	194 10 1375 LOSS 161 0 0 0 481 0 1562 0 0 6696 8899	143 0 0 0 0 0 93 0 302 0 0 0

TOTAL HEAT GAIN BTU/H:

41029

TONS: 3.42

LOSS DUE TO VENTILATION LOAD BTU/H: 2552

STRUCTURAL HEAT LOSS: 50173

TOTAL COMBINED HEAT LOSS BTU/H: 52725

Mahar Ofounda.



		LECCO I		MES				TYPE:	JUNIPER				DATE:	Dec-16			GFA:	3481	LO#	71354				
AIR FLOW RATE CFM	50,173 26,23		TOTAL H IR FLOW F		32.47	1	a	furr a/c coil vailable	pressure lace filter pressure pressure s/a & r/a	0.6 0.05 0.2 0.35						ı		804CNA SPEED LOW	*AMANA 80 1316	•	OUTPUT	AFUE = (BTU/H) = (BTU/H) =	80,000 76,800	
RUN COUNT S/A R/A All S/A diffusers 4'x10" unle				1st 8 2 ut.	Bas 5 1		max	s/a dif p	ssure s/a ess. loss ssure s/a	0.18 0.03 0.15		r/a grille pre usted pre		0.17 0.02 0.15			٨	EDLOW MEDIUM M HIGH HIGH	0 1389 0 1396	Т		GN CFM = CFM @ . URE RISE	6 " E.S.P.	 _ °F
All S/A runs 5"Ø unless note RUN # ROOM NAME RM LOSS MBH. CFM PER RUN HEAT RM GAIN MBH. CFM PER RUN COOL ING 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	ed othen 1 MBR 1.25 33 2.13 69 0.17 27 160 187 0.09 5 242 507 3X10 B	wise on la 2 ENS 0.90 23 0.81 26 0.17 59 150 209 0.08 4 264 298 3X10 A	yout. 3 ENS 0.90 23 0.81 26 0.17 43 120 163 0.11 4 264 298 3X10 B	4 BED-2 1.25 33 2.09 68 0.17 47 160 207 0.08 5 242 499 3X10 A	5 BED-3 1.83 48 2.66 86 0.16 47 120 167 0.1 5 352 631 3X10 D	6 BED-4 1.48 39 2.33 76 0.17 75 160 235 0.07 6 199 388 4X10 C	7 BATH 1.05 27 0.45 15 0.17 51 160 211 0.08 4 310 172 3X10 D	8 BED-3 1.83 48 2.66 86 0.16 50 130 180 0.09 5 352 631 3X10 D	9 BED-4 1.48 39 2.33 76 0.17 66 130 196 0.09 5 286 558 3X10 C	10 MBR 1.25 33 2.13 69 0.17 41 130 171 0.1 5 242 507 3X10 B	11 ENS-2 0.75 20 0.47 15 0.17 21 170 191 0.09 4 229 172 3X10 B	12 LV/DN 1.82 48 2.55 83 0.16 39 140 179 0.09 5 352 609 3X10 D	13 OFF 2.52 66 3.62 118 0.15 59 140 199 0.08 6 337 602 4X10 C	14 KT/FM 1.92 50 2.68 87 0.16 22 150 172 0.09 5 367 639 3X10 B	15 KT/FM 1.92 50 2.68 87 0.16 31 140 171 0.09 5 367 639 3X10 A	16 KT/FM 1.92 50 2.68 87 0.16 39 110 149 0.11 5 367 639 3X10 A	17 LAUN 1.89 50 1.89 61 0.17 44 110 154 0.11 5 367 448 3X10 A	18 W/R 0.42 11 0.07 2 0.17 19 140 159 0.11 4 126 23 3X10 D	19 FOY 2.58 68 1.51 49 0.17 45 130 175 0.1 5 499 360 3X10 C	20 ENS-4 0.93 24 0.85 28 0.17 65 140 205 0.08 4 275 321 3X10 C	21 BED-5 1.09 29 2.16 70 0.17 50 150 200 0.09 5 213 514 3X10 D	22 BAS 3.84 101 0.19 6 0.16 38 100 138 0.12 5 742 44 3X10 A	23 BAS 3.84 101 0.19 6 0.16 110 128 0.13 5 742 44 3X10 B	24 BAS 3.84 101 0.19 6 0.16 13 150 163 0.1 6 515 31 4X10 D
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 EFFECT IVE LENGTH ADJUSTED PRESSURE ROUND DUCT SIZE HEATING VELOCITY (ft/min) COOLING VELOCITY (ft/min) OUTLET GRILL SIZE TRUNK	25 BAS 3.84 101 0.19 6 0.16 37 120 157 0.1 6 515 31 4X10 D	26 BAS 3.84 10.19 6 0.16 49 140 0.09 6 515 31 4X10 C																				TOWN MAI	CEIVE OF MI R 29, 20 INIPER NG DIV	1LTON 017 19
SUPPLY AIR TRUNK SIZE TRUNK A TRUNK B TRUNK C TRUNK D TRUNK E TRUNK F	TRUNK CFM 307 567 337 750 0	STATIC PRESS. 0.08 0.08 0.07 0.07 0.00 0.00	ROUND DUCT 9 11.3 9.6 13 0	RECT DUCT 10 16 10 20 0	x x x x x	8 8 8 8 8	VELOCITY (ft/min) 553 638 607 675 0		TRUNK G TRUNK H TRUNK I TRUNK J TRUNK K TRUNK L	TRUNK CFM 0 0 0 0 0	STATIC PRESS. 0.00 0.00 0.00 0.00 0.00 0.00	ROUND DUCT 0 0 0 0 0	RECT DUCT 0 0 0 0 0	x x x x x	8 8 8 8	VELOCITY (ft/min) 0 0 0 0	TRUNK O TRUNK P TRUNK Q TRUNK R TRUNK S TRUNK T TRUNK U TRUNK U	TRUNK TRUNK CFM 0 0 0 0 0 0 0 0	STATIC PRESS. 0.05 0.05 0.05 0.05 0.05 0.05 0.05	ROUND DUCT 0 0 0 0 0 0	RECT DUCT 0 0 0 0 0 0	x x x x x	8 8 8 8 8 8	VELOCITY (ft/min) 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 0 135 0.15 42 230 272 0.05 7.5 8 X	2 0 85 0.15 58 185 243 0.06 6 8 X	3 0 175 0.15 57 160 217 0.07 7.5 8 X	4 0 85 0.15 59 195 254 0.06 6 8 X	5 0 175 0.15 22 185 207 0.07 7.5 8 X	6 0 345 0.15 24 225 249 0.06 10.1 8 X	7 0 85 0.15 54 205 259 0.06 6 8 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 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	231 0.15 14 145 159 0.09 7.9 8 X 24	TRUNK W TRUNK X TRUNK Y TRUNK Z DROP	0 886 655 430 1316	0.05 0.05 0.05 0.05 0.05 0.05	15.1 13.5 11.5 17.5	0 26 22 16 24	x x x x x	8 8 8 8 12	0 613 536 484 658



TYPE: SITE NAME: JUNIPER 9

LECCO RIDGE

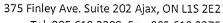
LO# 71354

RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

COMBUSTION APPLIANCES	9.32.3.1(1)	SUPPLEMENTAL VEN	TILATION CAPACITY		9.32.3.5.
a) Direct vent (sealed combustion) only		Total Ventilation Capacit	ty	201.4	cfm
b) Positive venting induced draft (except fireplaces)		Less Principal Ventil. Ca	pacity	96	cfm
c) Natural draft, B-vent or induced draft gas fireplace		Required Supplemental	Capacity	105.4	cfm
d) Solid Fuel (including fireplaces)					
e) No Combustion Appliances		PRINCIPAL EXHAUST	FAN CAPACITY		
Су		Model:	VANEE 50H	Location:	BSMT
HEATING SYSTEM		96.0 cf	fm 3.0 sone	es [✓ HVI Approved
Forced Air Non Forced Air		PRINCIPAL EXHAUST	HEAT LOSS CALCULATION		
		96.0 CFM	ΔT *F X 72 F X	FACTOR 1.08	% LOSS X 0.34
Electric Space Heat		SUPPLEMENTAL FANS	S.	NUTONE	
		Location	Model	cfm	HVI Sones
HOUSE TYPE	9.32.1(2)	ENS	QTXEN050C	50	✓ 0.3
		BATH	QTXEN050C	50	√ 0.3
Type a) or b) appliance only, no solid fuel		ENS-2 W/R	QTXEN050C QTXEN050C	50 50	✓ 0.3 ✓ 0.3
II Type I except with solid fuel (Including fireplaces)				30 1	
III Any Type c) appliance		HEAT RECOVERY VEN Model:	VANEE 50H		9.32.3.11.
IV Type I, or II with electric space heat		96	cfm high	47	cfm low
		66	% Sensible Efficiency	[✓ HVI Approved
Other: Type I, II or IV no forced air		L	@ 32 deg F (0 deg C)		
		LOCATION OF INSTAL	LATION	RE	CEIVED
SYSTEM DESIGN OPTIONS	O.N.H.W.P.	Lot:		TOWN	OF MILTON
1 Exhaust only/Forced Air System		20		MAI	R 29, 2017
2 HRV with Ducting/Forced Air System		Township			JNIPER 9
3 HRV Simplified/connected to forced air system		Address		BUILDI	ING DIVISION
		Roll #	A DI ANNI		OF MILTON
4 HRV with Ducting/non forced air system		BUILDER:	GR MILTON PLANN		EVELOPMENT PER 9 MODEL
Part 6 Design		Name:	BUILDING: RE SCOTT SHER		ADD 11 2017
TOTAL VENTILATION CAPACITY	9.32.3.3(1)	Address:	PLANS EXAMINER		APR 11, 2017 DATE
				own of Milton rel	lives the owner from
Basement + Master Bedroom 2 @ 21.2 cfm 42.4	cfm	City:	full responsibility for the Ontario Building	Code Act and th	e Ontario Building
Other Bedrooms <u>4</u> @ 10.6 cfm <u>42.4</u>	cfm	Telephone #:	Code, both as amen statutes and regulating By-laws of the Region	ions of the Provin	nce on Ontario
Kitchen & Bathrooms 6 6 63.6	cfm	INSTALLING CONTRAC	CTOR By-laws of the Region	on or riallon and	TOWIT OF WIIILOTT
Other Rooms	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 #:		Fax #:	
1 Bedroom 31.8 cfm) WA 17.	
2 Bedroom 47.7 cfm		DESIGNER CERTIFICA I hereby certify that this	.TION ventilation system has been de	esigned	
3 Bedroom 63.6 cfm		in accordance with the C		-	
4 Bedroom 79.5 cfm		Signature:	mit 1	10:01	
5 Bedroom 95.4 cfm		HRAI#	Melaka	d Coffunde . 001820	
More than 5 - Part 6 TOTAL 95.4 cfm		Date:	L HER DESIGNER" UNDER DIVISION C.	December-16	ING CODE

INDIVIDUAL BCIN: 19669

MICHAEL O'ROURKE



Tel: 905.619.2300 Fax: 905.619.2375

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

HEAT LOSS AND GAIN SUMMARY SHEET

MODEL:	JUNIPER 9			BUILDER: GREENPARK HOMI	ES
SFQT:	3481	LO#	71354	SITE: LECCO RIDGE	
DESIGN A	SSUMPTIONS				
HEATING			°F	COOLING	°F
OUTDOOF	R DESIGN TEMP.		0	OUTDOOR DESIGN TEMP.	86
INDOOR E	DESIGN TEMP.		72	INDOOR DESIGN TEMP. (MAX 75°F)	72
BUILDING	DATA				
ATTACHM	IENT:	1	DETACHED	# OF STORIES (+BASEMENT):	3
FRONT FA	CES:		EAST	ASSUMED (Y/N):	Y
AIR CHAN	GES PER HOUR:		3.57	ASSUMED (Y/N):	Υ
AIR TIGHT	NESS CATEGORY:		AVERAGE	ASSUMED (Y/N):	Υ
WIND EXF	POSURE:	S	HELTERED	ASSUMED (Y/N):	Y
HOUSE VO	DLUME (ft³):		47967.0	ASSUMED (Y/N):	Υ
INTERNAL	. SHADING:	BLINDS/	CURTAINS	ASSUMED OCCUPANTS:	6
INTERIOR	LIGHTING LOAD (Btu/	h/ft²):	1.50	DC BRUSHLESS MOTOR (Y/N):	Υ
FOUNDAT	ION CONFIGURATION		BCIN_1	DEPTH BELOW GRADE:	6.5 ft
LENGTH:	59.0 ft	WIDTH:	38.0 ft	EXPOSED PERIMETER:	194.0 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 R	SI (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		MAR 29, 2017 JUNIPER 9	0.95
HRV Minimum Efficiency			65%
Domestic Hot Water Heater Minimum EF	L	BUILDING DIVISION	90% TE

INDIVIDUAL BCIN: 19669 MICHAEL O'ROURKE

DESIGNS LTD.





Residential Foundation Thermal Load Calculator

Supplemental tool for CAN/CSA-F280

We	eather Sta	tion Description								
Province:	Ontario									
Region:	Milton									
	Site D	escription								
Soil Conductivity: Normal conductivity: dry dand, loam, clay										
Water Table: Normal (7-10 m, 23-33 ft)										
	Foundatio	n Dimensions								
Floor Length (m):	18.0									
Floor Width (m):	11.6									
Exposed Perimeter (m):	0.0									
Wall Height (m):	2.9									
Depth Below Grade (m):	2.0	Insulation Configuration								
Window Area (m²):	0.8									
Door Area (m²):	1.9									
	Radi	ant Slab								
Heated Fraction of the Slab:	0									
Fluid Temperature (°C):	33									
	Desig	n Months								
Heating Month	1									
	Founda	tion Loads								
Heating Load (Watts):		1962								

TYPE: JUNIPER 9 **LO#** 71354

RECEIVED TOWN OF MILTON MAR 29, 2017 JUNIPER 9 BUILDING DIVISION



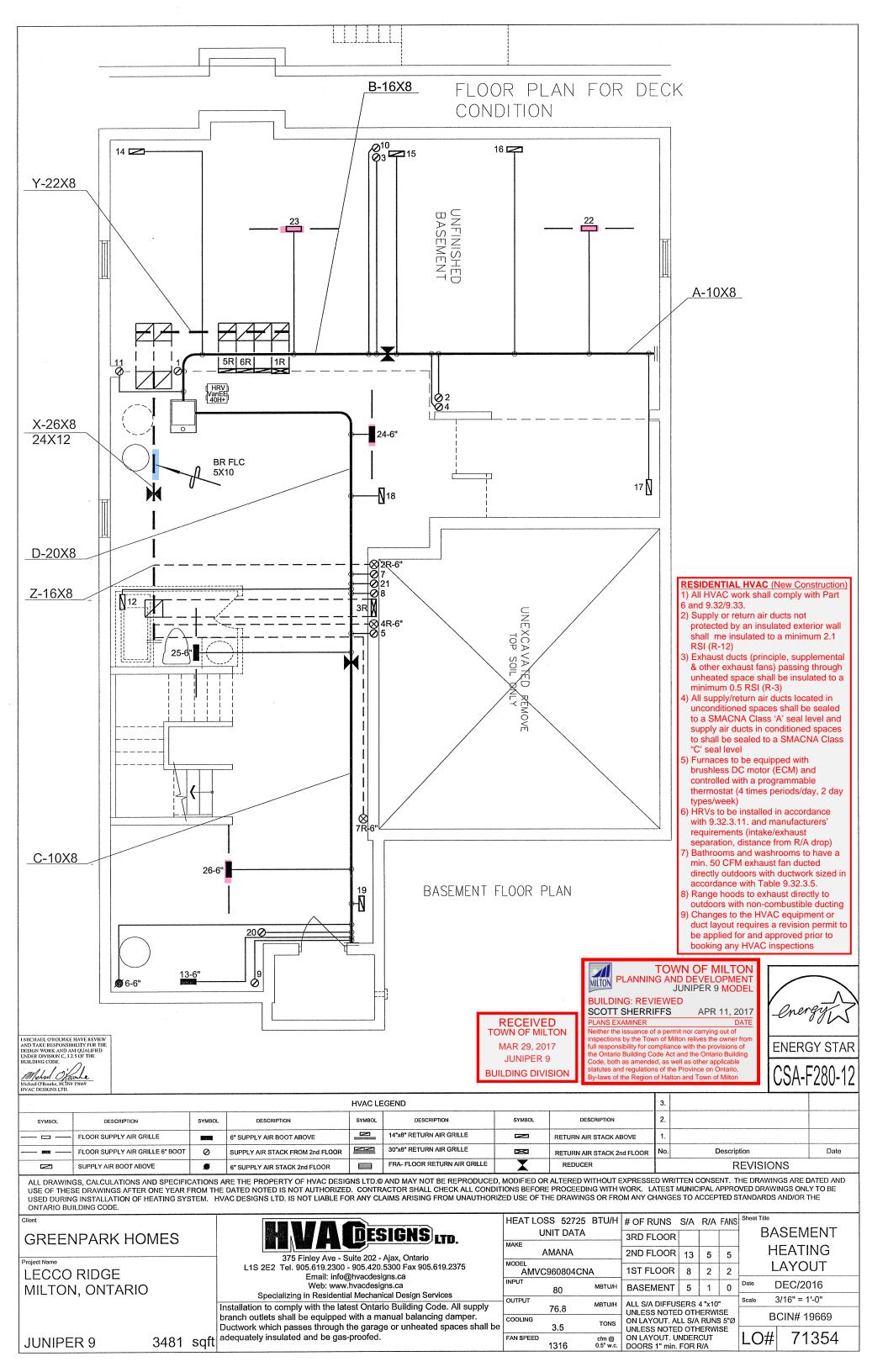
Air Infiltration Residential Load Calculator

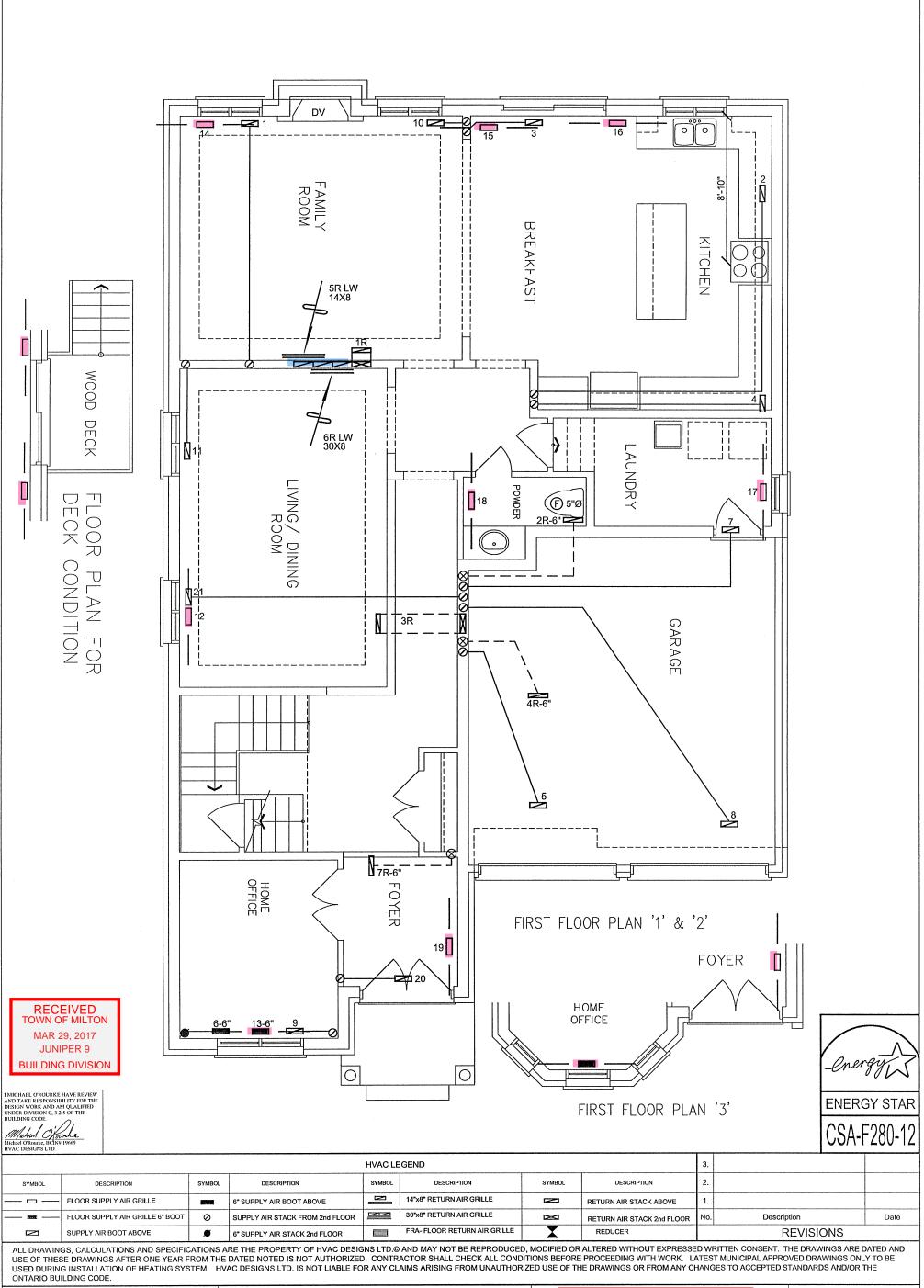
Supplemental tool for CAN/CSA-F280

Weather Sta	ation Des	cript	ion									
Province:	Onta	rio										
Region:	Milto	n										
Weather Station Location:	Oper	flat te	rrain, {	grass								
Anemometer height (m):	10											
Loca	l Shieldin	g										
Building Site:	Subu	rban, fo	orest									
Walls:	Heav	у										
Flue:	Heav	У										
Highest Ceiling Height (m):	6.71											
Building Configuration												
Туре:	Deta	ched										
Number of Stories:	Two											
Foundation:	Full											
House Volume (m³):	1358	.3										
Air Leakage/Ventilation												
Air Tightness Type:	Prese	nt (196	51-) (3.	.57 ACI	- 1)							
Custom BDT Data:	ELA (⊋ 10 Pa	ì.		1810.6 cm²							
	3.57			ACH @ 50 Pa								
Mechanical Ventilation (L/s):	To	tal Sup	ply		Total Exhaust							
		45.3			45.3							
FI	ue Size	· · · · · · · · · · · · · · · · · · ·										
Flue #:	#1	#2	#3	#4								
Diameter (mm):	0	0	0	0								
Natural In	filtration	Rate	S									
Heating Air Leakage Rate (ACH/	H):	0	.30	7								
Cooling Air Leakage Rate (ACH/I	H):	0	.10									

TYPE: JUNIPER 9 **LO#** 71354

RECEIVED TOWN OF MILTON MAR 29, 2017 JUNIPER 9 BUILDING DIVISION





GREENPARK HOMES

LECCO RIDGE MILTON, ONTARIO

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.



SCOTT SHERRIFFS APR 11, 2017

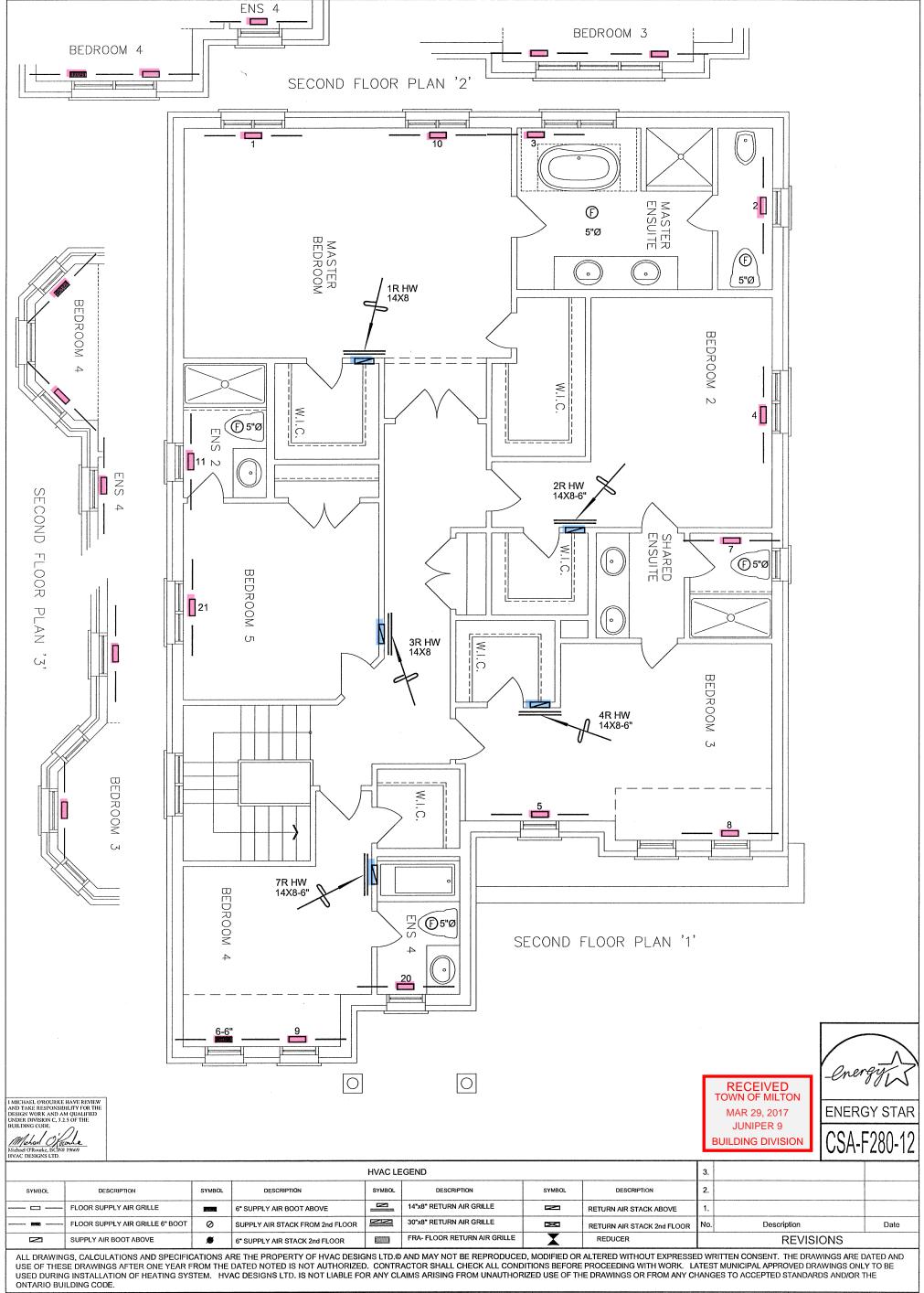
PLANS EXAMINER Neither the issuance of a permit nor carrying out of inspections by the Town of Milton relives the owner from full responsibility for compliance with the provisions of the Ontario Building Code Act and the Ontario Building Code, both as amended, as well as other applicable statutes and regulations of the Province on Ontario, By-laws of the Region of Halton and Town of Milton FIRST FLOOR **HEATING** LAYOUT

DEC/2016 Date 3/16" = 1'-0" Scale

BCIN# 19669 71354 LO#

JUNIPER 9

3481 sqft



ODEENID

GREENPARK HOMES

Project Name

LECCO RIDGE MILTON, ONTARIO

HVA DESIGNS LTD.

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BUILDING: REVIEWED SCOTT SHERRIFFS

PLANS EXAMINER

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APR 11, 2017

SECOND FLOOR
HEATING
LAYOUT

Date DEC/2016
Scale 3/16" = 1'-0"
BCIN# 19669

O# 71354

JUNIPER 9

3481 sqft