

SITE NAME: T	RINAR	HALL I	OMES	s					For	Lot 14	1							DATE: Feb								ANGE RATE 0.247				T°F. 81			CSA-I	
BUILDER: G	GREEN	ARK H	OMES					TYPE: (GLEN	NAY 12A	4			GFA:				LO# 815				SUMME	RNAT			ANGE RATE 0.069	,		GAIN A	T°F. 11			ENERG	YSTAR
ROOM USE				MBR			ENS			WIC			BED-2		, . E	BED-3	.		D-4	İ	BATH			ALC			,	ENS-4				1		
EXP. WALL		- 1		33			22	- 1		9			15	- 1		23	- 1	1	5	1	23			23				12	- 1			1		
CLG, HT.		- 1		9	- 1		9	- 1		9	- 1		9			9			9		9			9				9	- 1					
F	ACTO	RS						- 1									- 1			1									- 1			1		
GRS.WALL AREA L	LOSS	GAIN		297			198	- 1		81			135			207		1	35		207			207			1	108						
GLAZING				LOSS	GAIN	L	oss (GAIN		LOSS	GAIN	- 1	Loss	GAIN	₹ L	.oss e	3AIN	LO	SS GAIN	1	LOSS	GAIN		LOSS	GAIN			LOSS				1		
·	20.4	15.1	0	0	ا ہ	0	0	0	0	0	0	10	204	151	0	0	0	0	0 0	0	0	0	0	0	0		0	0	0					
	20.4	40.7	0	0	0	0	0	0	0	0	0	0	0	0	37	753	1507	0	0 0	10	204	407	0	0	0		0	0	0					
		24.1	0	0	0	18	366	433	0	0	0	0	0	0	0	0	0	21 4	27 505	0	0	0	21	427	505		21	427	505					i
	20.4	40.7	36	733	1466	14	285	570	14	285	570	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0		0	0	0			1		
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	3.9	0.5	-	-	186	-	195	79	54	74	30	240	330	134		281	114		97 80	90	124	50	171	235	95		99	136	55		. \			ch BCIN #1648
	1.4	0.6	334	459		142		- 1					0	0	30	88	36		0 0	0	0	0	0	0	0	1	0	0	0			Dunumy Otto	aaraa bran	011 2011 11 10 10
	2.9	1.2	0	0	0	0	0	0	0	0	0	0	27	4	225	615	83	-	0 0	90	246	33	10	27	4		0	0	0	Our town, Our	nane)			
	2.7	0.4	0	0	0	15	41	6	0	0	0	10	21	4	225	910	03	-	0 0	30	0	55			•		•	0	·	These pla	ans have	e been re	viewed	for use wi
BASEMENT/CRAWL HEAT LOSS				0			0	1		0	1		U						-	1	0			0				0						changes m
SLAB ON GRADE HEAT LOSS				0			0			0			0			0			0	1	1000			1407				899		made wi	thout w	ritten aj	proval	of the Bu
SUBTOTAL HT LOSS				2199			1528			618			1043		l	2392		10	064		1333			1407				033	600					ist comply
SUB TOTAL HT GAIN		ı			1788			1174			635			354			1828		645			593			701		0.00	0.04	606					nended, ar mended.
LEVEL FACTOR / MULTIPLIER			0.20	0.24		0.20	0.24		0.20	0.24		0.20	0.24		0.20	0.24			.24	0.20	0.24		0.20	0.24			0.20							pt on site
AIR CHANGE HEAT LOSS		- 1		533			371	- 1		150			253			580		2	58	1	323			341				218		times. T	he bui	lding p	ermit n	nust be c
AIR CHANGE HEAT GAIN		- 1			72			47			25			14			73		26	1		24	Ì		28		1		24	posted or	n site at	all times		
DUCT LOSS		- 1		0			190	- 1		0	1		130			297			0	1	166			175			1	0		Disciplin		Review	er BC	N Date
DUCT GAIN		- 1			0			122			0			132			286		0			62	1		73		1		0	Building		H. Auth		
HEAT GAIN PEOPLE	240	- 1	2		480	0		0	0		0	1		240	1		240	1	240	0		0	0		0		0		0	C	· ·	11. Auti	61 432	36 2021
HEAT GAIN APPLIANCES/LIGHTS		- 1			715			0			0			715			715		715	1		0			0		l		0	Sewage	System			
TOTAL HT LOSS BTU/H		l		2732			2088	- 1		767			1426			3269		1	322		1822			1923	3		1	1117	- 1	Zoning				
TOTAL HT GAIN x 1.3 BTU/H		- 1			3971			1747			859			1892			4084		211:			882			1043				819					
TOTAL IT STATE A TO DISTA																																		
ROOM USE				LV/DN		T				KT/FM			OFF			LAUN					FOY			MUE)					WO			BAS	
EXP. WALL		- 1		30				l		70	- 1		24		l	18	- 1				18			12					- 1	43	3	1	194	
CLG, HT.		- 1		10				l		10			18		l	12	ı				10			12		İ	1		- 1	9		1	9	- 1
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GLAZING		ا								70U			432			216					180			144		1					•			GAIN
				LOSS	GAIN	l		- 1		700 LOSS	GAIN		432 LOSS	GAIN			GAIN				180 LOSS	GAIN			S GAIN	,			1		S GAI	N	LOSS	
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	20.4	40.7	9	0 183	0 366				0	LOSS 0 0	0	60	LOSS 0 1221	0 2443	0	LOSS 0 0	0			0 0	LOSS 0	0	0 0	LOS:	S GAIN 0	1				0 0	SS GAI	- 1	0	1
SOUTH	20.4 20.4	40.7 24.1	.9 77	0 183 1567	0 366 1853				0 30	0 0 611	0 0 722	60 33	0 1221 672	0 2443 794	0 0 0	LOSS 0 0 0	0 0			0	LOSS 0 0	0 0	0 0 0	0 0	S GAIN 0 0	ı				0 0 0 0	0 0 0 0	0 4 4	0 81	163
SOUTH WEST	20.4 20.4 20.4	40.7 24.1 40.7	.9 77 9	0 183 1567 183	0 366 1853 366				0 30 71	0 0 611 1445	0 0 722 2891	60 33 0	0 1221 672 0	0 2443 794 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	5 GAIN 0 0 0 0					0 0 0 0 0 0	0 0 0 0	0 4 4	0 81 81	163 96
SOUTH WEST SKYLT.	20.4 20.4 20.4 34.2	40.7 24.1 40.7 99.9	9 77 9 0	0 183 1567 183 0	0 366 1853 366 0				0 30 71 0	0 0 611 1445 0	0 0 722 2891 0	60 33 0	0 1221 672 0 0	0 2443 794 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 6 12	0 0 0 0 2 244	0 4 4 4 0	0 81 81 0	163 96 0
SOUTH WEST SKYLT. DOORS	20.4 20.4 20.4 34.2 27.0	40.7 24.1 40.7 99.9 3.7	9 77 9 0	0 183 1567 183 0	0 366 1853 366 0				0 30 71 0 25	0 0 611 1445 0 676	0 0 722 2891 0 91	60 33 0 0	0 1221 672 0 0	0 2443 794 0 0	0 0 0 0	0 0 0 0 0 0	0 0 0			0 0 0 0 46	0 0 0 0 0 0	0 0 0 0 0	0 20	0 0 0 0 0 0 541	0 0 0 0 0 0 0					0 0 0 0 0 0 0 6 12 0 0	0 0 0 0 2 2 244 0	0 4 4 0 0	0 81 81 0	163 96 0
SOUTH WEST SKYLT. DOORS NET EXPOSED WALL	20.4 20.4 20.4 34.2 27.0 3.9	40.7 24.1 40.7 99.9 3.7 0.5	9 77 9 0 0 205	0 183 1567 183 0 0	0 366 1853 366 0 0				0 30 71 0 25 574	0 0 611 1445 0 676 2214	0 0 722 2891 0 91 299	60 33 0 0 0 0 339	0 1221 672 0 0 0 1308	0 2443 794 0 0 0	0 0 0 0 0 0 216	LCSS 0 0 0 0 0 0 0	0 0 0 0 0 0			0 0 0 0 46 134	0 0 0 0 0 0 1244 517	0 0 0 0 0 168 70	0 20 124	0 0 0 0 0 0 541 478	0 0 0 0 0 0 0 73 65					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 2 2 244 0 0	0 4 4 0 0 20	0 81 81 0 0 541	163 96 0 0 73
SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BSMT WALL ABOVE GR	20.4 20.4 20.4 34.2 27.0 3.9 3.9	40.7 24.1 40.7 99.9 3.7 0.5 0.5	9 77 9 0 0 205	0 183 1567 183 0 0 791	0 366 1853 366 0 0 107				0 30 71 0 25 574 0	0 0 611 1445 0 676 2214	0 0 722 2891 0 91 299	60 33 0 0 0 339	LOSS 0 1221 672 0 0 0 1308	0 2443 794 0 0 0 177	0 0 0 0 0 0 216	LCSS 0 0 0 0 0 0 0 833	0 0 0 0 0 0 113			0 0 0 0 46 134	0 0 0 0 0 0 1244 517	0 0 0 0 0 168 70	0 20 124 0	0 0 0 0 0 0 541 478	0 0 0 0 0 0 73 65					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 252 97	0 0 0 2 2444 0 0 0 0 1 131	0 4 4 0 0 20 0 1 378	0 81 81 0 0 541 0	163 96 0 0 73 0
SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BSMT WALL ABOVE GR EXPOSED CLG	20.4 20.4 20.4 34.2 27.0 3.9 3.9 1.4	40.7 24.1 40.7 99.9 3.7 0.5 0.5	9 77 9 0 0 205 0	0 183 1567 183 0 0 791	0 366 1853 366 0 0 107 0				0 30 71 0 25 574 0	LOSS 0 0 611 1445 0 676 2214 0	0 0 722 2891 0 91 299 0	60 33 0 0 0 339 0	LOSS 0 1221 672 0 0 0 1308 0 231	0 2443 794 0 0 0	0 0 0 0 0 0 216 0	LOSS 0 0 0 0 0 0 0 0 0 0 833 0 0 0	0 0 0 0 0 0 113 0			0 0 0 0 46 134 0	LOSS 0 0 0 0 0 1244 517 0	0 0 0 0 0 168 70 0	0 20 124 0	0 0 0 0 0 541 478 0	0 0 0 0 0 0 73 65 0					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 252 97 0 0	0 0 0 0 2 2444 0 0 0 0 1 131	0 4 4 0 0 20 0 1 378 0	0 81 81 0 0 541 0 1455	163 96 0 0 73 0 197
SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BSMT WALL ABOVE OF EXPOSED CLG NO ATTIC EXPOSED CLG	20.4 20.4 20.4 34.2 27.0 3.9 3.9 1.4 2.9	40.7 24.1 40.7 99.9 3.7 0.5 0.5 0.6 1.2	9 77 9 0 0 205 0 0	0 183 1567 183 0 0 791	0 366 1853 366 0 0 107 0 24				0 30 71 0 25 574 0 0	LOSS 0 0 611 1445 0 676 2214 0 0	0 0 722 2891 0 91 299 0	60 33 0 0 0 339 0 168	LOSS 0 1221 672 0 0 0 1308 0 231 0	0 2443 794 0 0 0 177 0 94	0 0 0 0 0 0 216 0	LCSS 0 0 0 0 0 0 0 0 0 0 0 833 0 0 0 44	0 0 0 0 0 113 0 0			0 0 0 46 134 0 0	LOSS 0 0 0 0 0 1244 517 0 0 215	0 0 0 0 168 70 0	0 20 124 0 0	0 0 0 0 0 0 541 478 0	S GAIN 0 0 0 0 0 73 65 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 4 4 0 0 20 0 1 378 0	0 81 81 0 0 541 0 1455 0	163 96 0 0 73 0 197 0
SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BSMT WALL ABOVE GR EXPOSED CLG	20.4 20.4 20.4 34.2 27.0 3.9 3.9 1.4	40.7 24.1 40.7 99.9 3.7 0.5 0.5	9 77 9 0 0 205 0	0 183 1567 183 0 0 791	0 366 1853 366 0 0 107 0				0 30 71 0 25 574 0	LOSS 0 0 611 1445 0 676 2214 0	0 0 722 2891 0 91 299 0	60 33 0 0 0 339 0	LOSS 0 1221 672 0 0 1308 0 231 0	0 2443 794 0 0 0 177	0 0 0 0 0 0 216 0	LOSS 0 0 0 0 0 0 0 0 0 833 0 D 44 D	0 0 0 0 0 0 113 0			0 0 0 0 46 134 0	LOSS 0 0 0 0 0 1244 517 0 0 215 0	0 0 0 0 0 168 70 0	0 20 124 0	LOS: 0 0 0 0 541 478 0 0	0 0 0 0 0 0 73 65 0					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 252 97 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 4 4 0 0 20 0 1 378 0	0 81 81 0 0 541 0 1455 0	163 96 0 0 73 0 197 0
SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BSMT WALL ABOVE GR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR	20.4 20.4 20.4 34.2 27.0 3.9 3.9 1.4 2.9	40.7 24.1 40.7 99.9 3.7 0.5 0.5 0.6 1.2	9 77 9 0 0 205 0 0	0 183 1567 183 0 0 791	0 366 1853 366 0 0 107 0 24				0 30 71 0 25 574 0 0	LOSS 0 0 611 1445 0 676 2214 0 0	0 0 722 2891 0 91 299 0	60 33 0 0 0 339 0 168	LOSS 0 1221 672 0 0 0 1308 0 231 0	0 2443 794 0 0 0 177 0 94	0 0 0 0 0 0 216 0	LOSS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 113 0 0			0 0 0 46 134 0 0	LOSS 0 0 0 0 0 1244 517 0 0 215	0 0 0 0 168 70 0	0 20 124 0 0	LOS: 0 0 0 0 541 478 0 0 0	S GAIN 0 0 0 0 0 73 65 0					LOS 0 0 0 0 0 0 6 12: 0 0 0 0 0 252 97 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 4 4 0 0 20 0 1 378 0	0 81 81 0 0 541 0 1455 0	163 96 0 0 73 0 197 0
SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED ESMT WALL ABOVE OR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR	20.4 20.4 20.4 34.2 27.0 3.9 3.9 1.4 2.9	40.7 24.1 40.7 99.9 3.7 0.5 0.5 0.6 1.2	9 77 9 0 0 205 0 0	0 183 1567 183 0 0 791	0 366 1853 366 0 0 107 0 24				0 30 71 0 25 574 0 0	LOSS 0 0 611 1445 0 676 2214 0 0 29	0 0 722 2891 0 91 299 0	60 33 0 0 0 339 0 168	LOSS 0 1221 672 0 0 0 1308 0 231 0 0	0 2443 794 0 0 0 177 0 94	0 0 0 0 0 0 216 0	LOSS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 113 0 0			0 0 0 46 134 0 0	LOSS 0 0 0 0 1244 517 0 0 215 0 0	0 0 0 0 168 70 0	0 20 124 0 0	LOS: 0 0 0 0 541 478 0 0 0 0	S GAIN 0 0 0 0 0 73 65 0 0					LOS 0 0 0 0 0 0 6 12: 0 0 0 0 0 252 97 0 0 0 0 0 0	0 0 0 2 244 0 0 0 0 0 1 131 0 0 0 0	0 4 4 0 0 20 0 1 378 0	0 81 81 0 541 0 1455 0 0	163 96 0 0 73 0 197 0
SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED CLG EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS	20.4 20.4 20.4 34.2 27.0 3.9 3.9 1.4 2.9	40.7 24.1 40.7 99.9 3.7 0.5 0.5 0.6 1.2	9 77 9 0 0 205 0 0	0 183 1567 183 0 0 791	0 366 1853 366 0 0 107 0 24				0 30 71 0 25 574 0 0	LOSS 0 0 611 1445 0 676 2214 0 0 29	0 0 722 2891 0 91 299 0	60 33 0 0 0 339 0 168	LOSS 0 1221 672 0 0 0 1308 0 231 0 0	0 2443 794 0 0 0 177 0 94	0 0 0 0 0 0 216 0	LOSS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 113 0 0			0 0 0 46 134 0 0	LOSS 0 0 0 0 0 1244 517 0 0 215 0	0 0 0 0 168 70 0 87	0 20 124 0 0	LOS: 0 0 0 0 541 478 0 0 0	S GAIN 0 0 0 0 0 73 65 0 0					LOS 0 0 0 0 0 0 6 12: 0 0 0 0 0 252 97 0 0 0 0 0	SS GAII 0 0 0 0 2 2 244 0 0 0 0 1 131 0 0 0	0 4 4 0 0 20 0 378 0 0	0 81 81 0 0 541 0 1455 0	163 96 0 0 73 0 197 0
SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED ELG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS	20.4 20.4 20.4 34.2 27.0 3.9 3.9 1.4 2.9	40.7 24.1 40.7 99.9 3.7 0.5 0.5 0.6 1.2	9 77 9 0 0 205 0 0	0 183 1567 183 0 0 791 0 0 59 0	0 366 1853 366 0 0 107 0 24				0 30 71 0 25 574 0 0	LOSS 0 0 611 1445 0 676 2214 0 0 29 0 0	0 0 722 2891 0 91 299 0	60 33 0 0 0 339 0 168	LOSS 0 1221 672 0 0 0 1308 0 231 0 0	0 2443 794 0 0 0 177 0 94	0 0 0 0 0 0 216 0	LOSS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 113 0 0			0 0 0 46 134 0 73	LOSS 0 0 0 1244 517 0 215 0 0 1975	0 0 0 0 168 70 0	0 20 124 0 0 0	LOS: 0 0 0 0 541 478 0 0 0 0 1015	S GAIN 0 0 0 0 0 73 65 0 0 0					LOS 0 0 0 0 0 0 6 12: 0 0 0 0 0 252 97 0 0 0 0 0 0	0 0 0 2 244 0 0 0 0 0 1 131 0 0 0 0	0 4 4 0 0 20 0 1 378 0 0 0	0 81 81 0 541 0 1455 0 0 6686	163 96 0 0 73 0 197 0
SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BMT WALL ABOVE GR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT LOSS SUB TOTAL HT GAIN	20.4 20.4 20.4 34.2 27.0 3.9 3.9 1.4 2.9	40.7 24.1 40.7 99.9 3.7 0.5 0.5 0.6 1.2	9 77 9 0 0 205 0 0	0 183 1567 183 0 0 791 0 59 0 0 2783	0 366 1853 366 0 0 107 0 0 24				0 30 71 0 25 574 0 0	LOSS 0 0 611 1445 0 676 2214 0 0 29 0 0 4975	0 0 722 2891 0 91 299 0 0	60 33 0 0 0 339 0 168	LOSS 0 1221 672 0 0 0 1308 0 231 0 0	0 2443 794 0 0 0 177 0 94 0	0 0 0 0 0 0 216 0 0	LOSS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 113 0 0			0 0 0 46 134 0 0	LOSS 0 0 0 1244 517 0 215 0 0 1975	0 0 0 0 168 70 0 87	0 20 124 0 0	LOS: 0 0 0 0 541 478 0 0 0 0 1015	S GAIN 0 0 0 0 0 73 65 0 0 0					LOS 0 0 0 0 0 0 6 12: 0 0 0 0 0 252 97 0 0 0 0 0 0	SS GAII 0 0 0 0 2 2 244 0 0 0 0 1 131 0 0 0	0 4 4 0 0 20 0 378 0 0	0 81 81 0 0 541 0 1455 0 0 6686 8844	163 96 0 0 73 0 197 0 0
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 SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER	20.4 20.4 20.4 34.2 27.0 3.9 3.9 1.4 2.9	40.7 24.1 40.7 99.9 3.7 0.5 0.5 0.6 1.2	9 77 9 0 0 205 0 0 20 0	0 183 1567 183 0 0 791 0 0 59 0 0 2783	0 366 1853 366 0 0 107 0 0 24				0 30 71 0 25 574 0 0	LOSS 0 0 611 1445 0 676 2214 0 0 29 0 0 4975	0 0 722 2891 0 91 299 0 0	60 33 0 0 0 339 0 168 0	LOSS 0 1221 672 0 0 1308 0 231 0 0 0 3431	0 2443 794 0 0 0 177 0 94 0	0 0 0 0 0 0 216 0 0	LOSS 0 0 0 0 0 0 0 0 0 833 0 0 44 0 0 0 877	0 0 0 0 0 113 0 0			0 0 0 46 134 0 73	LOSS 0 0 0 1244 517 0 215 0 0 1975	0 0 0 0 168 70 0 87	0 20 124 0 0 0	LOS: 0 0 0 0 541 478 0 0 0 0 1015	S GAIN 0 0 0 0 0 73 65 0 0 0					LOS 0 0 0 0 0 0 6 12: 0 0 0 0 0 252 97 0 0 0 0 0 0	SS GAII 0 0 0 0 2 2 244 0 0 0 0 1 131 0 0 0	0 4 4 0 0 20 0 1 378 0 0 0	0 81 81 0 541 0 1455 0 0 6686	163 96 0 0 73 0 197 0 0
SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED CLG EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SUBTOTAL HT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS	20.4 20.4 20.4 34.2 27.0 3.9 3.9 1.4 2.9	40.7 24.1 40.7 99.9 3.7 0.5 0.5 0.6 1.2	9 77 9 0 0 205 0 0 20 0	0 183 1567 183 0 0 791 0 59 0 0 2783	0 366 1853 366 0 0 107 0 0 24				0 30 71 0 25 574 0 0	LOSS 0 611 1445 0 676 2214 0 0 29 0 0 4975	0 0 722 2891 0 91 299 0 0	60 33 0 0 0 339 0 168 0	LOSS 0 1221 672 0 0 0 1308 0 231 0 0 0 3431	0 2443 794 0 0 0 177 0 94 0	0 0 0 0 0 0 216 0 0	LCSS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 113 0 0			0 0 0 46 134 0 73	LOSS 0 0 0 1244 517 0 215 0 0 1975	0 0 0 0 168 70 0 87	0 20 124 0 0 0	LOSS 0 0 0 0 0 0 541 478 0 0 0 1018	S GAIN 0 0 0 0 0 73 65 0 0 0					LOS 0 0 0 0 0 0 6 12: 0 0 0 0 0 252 97 0 0 0 0 0 0	SS GAII 0 0 0 0 2 2 244 0 0 0 0 1 131 0 0 0	0 4 4 0 0 20 0 1 378 0 0 0	0 81 81 0 0 541 0 1455 0 0 6686 8844	163 96 0 0 73 0 197 0 0
SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED CLG 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 LOSS AIR CHANGE HEAT LOSS	20.4 20.4 20.4 34.2 27.0 3.9 3.9 1.4 2.9	40.7 24.1 40.7 99.9 3.7 0.5 0.5 0.6 1.2	9 77 9 0 0 205 0 0 20 0	0 183 1567 183 0 0 791 0 0 59 0 0 2783	0 366 1853 366 0 107 0 24 0				0 30 71 0 25 574 0 0	LOSS 0 611 1445 0 676 2214 0 0 29 0 0 4975	0 0 722 2891 0 91 299 0 0 12 0	60 33 0 0 0 339 0 168 0	LOSS 0 1221 672 0 0 0 1308 0 231 0 0 0 3431	0 2443 794 0 0 0 177 0 94 0	0 0 0 0 0 0 216 0 0	LCSS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 113 0 18 0			0 0 0 46 134 0 73	LOSS 0 0 0 1244 517 0 215 0 0 1975	0 0 0 0 168 70 0 87 0	0 20 124 0 0 0	LOSS 0 0 0 0 0 0 541 478 0 0 0 1018	S GAIN 0 0 0 0 73 65 0 0 0					LOS 0 0 0 0 0 0 6 12: 0 0 0 0 0 252 97 0 0 0 0 0 0	SS GAII 0 0 0 0 2 2 244 0 0 0 0 1 131 0 0 0	0 4 4 0 0 20 0 1 378 0 0 0	0 81 81 0 0 541 0 1455 0 0 6686 8844	163 96 0 0 73 0 197 0 0
SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BMT WALL ABOVE GR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT GAIN DUCT LOSS	20.4 20.4 20.4 34.2 27.0 3.9 3.9 1.4 2.9	40.7 24.1 40.7 99.9 3.7 0.5 0.5 0.6 1.2	9 77 9 0 0 205 0 0 20 0	0 183 1567 183 0 0 791 0 0 59 0 0 2783	0 366 1853 366 0 107 0 24 0				0 30 71 0 25 574 0 0	LOSS 0 611 1445 0 676 2214 0 0 29 0 0 4975 0.30 1500	0 0 722 2891 0 91 299 0 0 12 0	60 33 0 0 0 339 0 168 0	LOSS 0 1221 672 0 0 0 1308 0 231 0 0 0 3431 0.30 1034	0 2443 794 0 0 0 177 0 94 0	0 0 0 0 0 0 216 0 0	LCSS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 113 0 18 0			0 0 0 46 134 0 73	LOSS 0 0 0 1244 517 0 215 0 0 1975	0 0 0 0 168 70 0 87 0	0 20 124 0 0 0	LOS: 0 0 0 0 0 5411 4788 0 0 0 0 0 0 0 0 0 0 0 0 0	S GAIN 0 0 0 0 73 65 0 0 0					LOS 0 0 0 0 0 0 6 12: 0 0 0 0 0 252 97 0 0 0 0 0 0	SS GAII 0 0 0 0 2 2 244 0 0 0 0 1 131 0 0 0	0 4 4 0 0 20 0 1 378 0 0 0	0 81 81 0 0 541 0 1455 0 0 6686 8844	163 96 0 0 73 0 197 0 0
SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED USLL NET EXPOSED CLG 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 LOSS AIR CHANGE HEAT GAIN DUCT LOSS DUCT GAIN	20.4 20.4 20.4 34.2 27.0 3.9 3.9 1.4 2.9 2.7	40.7 24.1 40.7 99.9 3.7 0.5 0.5 0.6 1.2	9 77 9 0 0 205 0 0 20 0 0	0 183 1567 183 0 0 791 0 0 59 0 0 2783	0 366 1853 366 0 0 107 0 24 0				0 30 71 0 25 574 0 0 10 0	LOSS 0 611 1445 0 676 2214 0 0 29 0 0 4975 0.30 1500	0 0 722 2891 0 91 299 0 0 12 0	60 33 0 0 0 339 0 168 0 0	LOSS 0 1221 672 0 0 0 1308 0 231 0 0 0 3431 0.30 1034	0 2443 794 0 0 177 0 94 0 0	0 0 0 0 0 0 216 0 0	LCSS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1113 0 0 18 0			0 0 0 46 134 0 73	LOSS 0 0 0 1244 517 0 215 0 0 1975	0 0 0 0 168 70 0 87 0	0 20 124 0 0 0	LOS: 0 0 0 0 0 5411 4788 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					LOS 0 0 0 0 0 0 6 12: 0 0 0 0 0 252 97 0 0 0 0 0 0	SS GAII 0 0 0 0 2 2 244 0 0 0 0 1 131 0 0 0	0 4 4 0 0 20 0 1 378 0 0 0	0 81 81 0 0 541 0 1455 0 0 6686 8844	163 96 0 0 73 0 197 0 0 529
SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BUSHT WALL ABOVE OF 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 LOSS AIR CHANGE HEAT GAIN DUCT LOSS DUCT GAIN HEAT GAIN PEOPLE	20.4 20.4 20.4 34.2 27.0 3.9 3.9 1.4 2.9	40.7 24.1 40.7 99.9 3.7 0.5 0.5 0.6 1.2	9 77 9 0 0 205 0 0 20 0	0 183 1567 183 0 0 791 0 0 59 0 0 2783	0 366 1853 366 0 0 107 0 0 24 0				0 30 71 0 25 574 0 0	LOSS 0 611 1445 0 676 2214 0 0 29 0 0 4975 0.30 1500	0 0 722 2891 0 91 299 0 0 12 0	60 33 0 0 0 339 0 168 0	LOSS 0 1221 672 0 0 0 1308 0 231 0 0 0 3431 0.30 1034	0 2443 794 0 0 0 177 0 94 0 0	0 0 0 0 0 0 216 0 0 15 0	LCSS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 1113 0 0 130 5 0			0 0 0 46 134 0 73 0	LOSS 0 0 0 1244 517 0 215 0 0 1975	0 0 0 0 168 70 0 87 0 325	0 20 124 0 0 0	LOS: 0 0 0 0 0 5411 4788 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					LOS 0 0 0 0 0 6 12: 0 0 0 0 0 252 97 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 4 4 0 0 20 0 1 378 0 0 0 0 6 0 .50	0 81 81 0 0 541 0 1455 0 0 6686 8844	163 96 0 0 73 0 197 0 0 529
SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED USLL NET EXPOSED CLG 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 LOSS AIR CHANGE HEAT LOSS DUCT GAIN	20.4 20.4 20.4 34.2 27.0 3.9 3.9 1.4 2.9 2.7	40.7 24.1 40.7 99.9 3.7 0.5 0.5 0.6 1.2	9 77 9 0 0 205 0 0 20 0 0	0 183 1567 183 0 0 791 0 0 59 0 0 2783	0 366 1853 366 0 0 107 0 24 0				0 30 71 0 25 574 0 0 10 0	LOSS 0 611 1445 0 676 2214 0 0 29 0 0 4975 0.30 1500	0 0 722 2891 0 91 299 0 0 12 0	60 33 0 0 0 339 0 168 0 0	LOSS 0 1221 672 0 0 0 1308 0 231 0 0 0 3431 0.30 1034	0 2443 794 0 0 0 1777 0 94 0 0	0 0 0 0 0 0 216 0 0 15 0	LCSS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1113 0 0 188 0			0 0 0 46 134 0 73 0	LOSS 0 0 0 1244 517 0 215 0 0 1975	0 0 0 0 168 70 0 87 0 325	0 20 124 0 0 0	LOS: 0 0 0 0 0 5411 4788 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					LOS 0 0 0 0 0 6 12: 0 0 0 0 0 252 97 0 0 0 0 0 0 0	38 GAII 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 4 4 0 0 20 0 1 378 0 0 0 0 6 0 .50	0 81 81 0 0 541 0 1455 0 0 6686 8844	163 96 0 0 73 0 197 0 0 0 529

TOTAL HEAT GAIN BTU/H:

37236

TONS: 3.10

LOSS DUE TO VENTILATION LOAD BTU/H: 1747

STRUCTURAL HEAT LOSS: 53574

TOTAL COMBINED HEAT LOSS BTU/H: 55321

Mehad Offende.



		: TRINAR : GREENI						TYPE:	For Lot				DATE:	Feb-19			GFA:	2969	LO#	81524				
AIR FLOW RATE CFM RUN COUNT S/A R/A All S/A diffusers 4"x10" unle		3rd 0 0 d otherwis	TOTAL FIRE FLOW FOR THE PROPERTY OF THE PROPER	LING CFM LEAT GAIN RATE CFM 1st 10 3 out.	37,000		ple max	furi a/c coil ivailable foi enum pre s/a dif p	pressure pressure pressure r s/a & r/a essure s/a ress. loss essure s/a	0.05 0.2 0.35		a grille pro	pressure ess. Loss essure r/a	0.17 0.02			GMEC960 FAN MI	#0	300DMA 60	AN	OUTPUT (AFUE = ! BTU/H) = ! BTU/H) = ! BN CFM = CFM @ .6	60,000 57,600 1131	- °F
All S/A runs 5"Ø unless not 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 (fl/min) COOLING VELOCITY (fl/min) OUTLET GRILL SIZE TRUNK	ed other 1 MBR 1.37 29 1.99 61 0.17 27 120 147 0.12 5 213 448 3X10 A	2 ENS 2.09 44 1.75 53 0.17 34 130 164 0.1 5 323 389 3X10 B	yout. 3 WIC 0.77 16 0.86 26 0.17 50 140 190 0.09 4 184 298 3X10 B	4 BED-2 1.43 30 1.89 58 0.17 57 150 207 0.08 6 153 296 4X10	5 BED-3 1.63 35 2.04 62 0.17 50 140 190 0.09 5 257 455 3X10 E	6 BED-4 1.32 28 2.11 65 0.17 40 200 240 0.07 6 143 331 4X10 F	7 BATH 1.82 38 0.88 27 0.17 57 180 237 0.07 5 279 198 3X10 E	8 ALC 1.92 41 1.04 32 0.17 44 130 174 0.1 4 470 367 3X10 E	9 BED-3 1.63 35 2.04 62 0.17 53 150 203 0.08 5 257 455 3X10 E	10 MBR 1.37 29 1.99 61 0.17 33 160 193 0.09 5 213 448 3X10 A	11 ENS-4 1.12 24 0.82 25 0.17 48 200 248 0.07 4 275 287 3X10 E	12 LV/DN 1.81 38 2.30 70 0.17 24 190 214 0.08 6 194 357 4X10 F	13 KT/FM 2.16 46 2.12 65 0.17 30 130 160 0.11 5 338 477 3X10 B		15 KT/FM 2.16 46 2.12 65 0.17 16 110 126 0.14 5 338 477 3X10 A	16 OFF 2.23 47 2.84 87 0.16 53 120 173 0.09 6 240 444 4X10 D	17 LAUN 1.14 24 1.11 34 0.17 24 110 134 0.13 4 275 390 3X10 C	18 MUD 1.33 28 0.19 6 0.17 14 100 114 0.15 4 321 69 3X10 C	19 FOY 2.57 54 0.44 13 0.17 43 150 193 0.09 5 396 95 3X10 D	20 KT/FM 2.16 46 2.12 65 0.17 26 140 166 0.1 5 338 477 3X10 A	21 BAS 3.50 74 0.24 7 0.17 23 130 153 0.11 5 543 51 3X10 B	22 BAS 3.50 74 0.24 7 0.17 19 120 139 0.12 5 543 51 3X10 A	23 BAS 3.50 74 0.24 7 0.17 29 170 199 0.09 5 543 51 3X10 F	24 BAS 3.50 74 0.27 0.17 47 120 167 0.1 5 543 51 3X10 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 EFFECTIVE LENGTH ADJUSTED PRESSURE ROUND DUCT SIZE HEATING VELOCITY (ft/min) COOLING VELOCITY (ft/min) OUTLET GRILL SIZE TRUNK	25 OFF 2.23 47 2.84 87 0.16 45 120 165 0.1 6 240 444 4X10 D	26 LV/DN 1.81 38 2.30 70 0.17 27 170 197 0.09 6 194 357 4X10 F	27 BAS 3.50 74 0.24 7 0.17 20 180 200 0.09 5 543 51 3X10 C																	1 3 2 4 1	These plans have rections as a corrections as a contraction and the standards Bran Zoning By-Law Discipline Building Code Sewage System Zoning	noted. No convirten approach. All wo v 2018-043, ng Code, ments must allding perm	ewed for usother change toval of the ork must co- as amende as amende be kept on mit must	se with the tes may be e Building omply with ed, and the ed. These is site at all
SUPPLY AIR TRUNK SIZE TRUNK A TRUNK B TRUNK C TRUNK D TRUNK E TRUNK F	TRUNK CFM 224 180 530 222 395 573	STATIC PRESS. 0.09 0.09 0.09 0.09 0.07 0.07	ROUND DUCT 7.8 7.2 10.7 7.7 10.2 11.8	RECT DUCT 8 8 14 8 12 18	x x x x x	8 8 8 8 8	VELOCITY (ft/min) 504 405 681 500 593 573		TRUNK G TRUNK H TRUNK I TRUNK J TRUNK K TRUNK L	TRUNK CFM O O O O O	STATIC PRESS. 0.00 0.00 0.00 0.00 0.00 0.00	ROUND DUCT O O O O O	RECT DUCT 0 0 0 0 0 0	x x x x x	8 8 8 8 8	VELOCITY (ft/min) 0 0 0 0	TRUNK O TRUNK O TRUNK Q TRUNK Q TRUNK R TRUNK S TRUNK S TRUNK T TRUNK V	TRUNK TRUNK CFM 0 0 0 0 0 435	SIZE STATIC PRESS. 0.05 0.05 0.05 0.05 0.05 0.05 0.05	ROUND DUCT 0 0 0 0 0 0 0 11.6	RECT DUCT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	x x x x x	8 8 8 8 8 8	VELOCITY (ft/mir.) 0 0 0 0 0 0 0 180
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 95 0.15 40 165 205 0.07 6 8 X	2 0 75 0.15 70 255 325 0.05 6 8 X 14	3 0 75 0.15 63 225 288 0.05 6 8 X	4 0 75 0.15 66 215 281 0.05 6 8 X	5 0 280 0.15 28 195 223 0.07 9 8 X 30	6 0 155 0.15 29 200 229 0.06 7.5 8 X	7 0 135 0.15 53 240 293 0.05 7.5 8 X 14	8 0 75 0.15 64 255 319 0.05 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 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	166 0.15 14 175 189 0.08 7.2 8 X	TRUNK W TRUNK X TRUNK Y TRUNK Z DROP	435 870 1131 435 285 1131	0.05 0.05 0.05 0.05 0.05 0.05	11.6 15.5 11.6 9.9 16.5	16 26 32 16 12 24	x x x x	8 8 8 8 10	489 602 636 489 428 679



TYPE:

GLENWAY 12A

SITE NAME:

TRINAR HALL HOMES

LO# 81524

RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

COMBUSTION APPLIANCES	9.32.3.1(1)	SUPPLEMENTAL '	VENTILATION CAPA	CITY		9.32	.3.5.	
a)		Total Ventilation Ca	pacity	1	80.2	cfm		
b) Positive venting induced draft (except fireplaces)		Less Principal Vent	il. Capacity	7	9.5	cfm		
c) Natural draft, B-vent or induced draft gas fireplace		Required Suppleme	ental Capacity	1	00.7	cfm		
d) Solid Fuel (including fireplaces)		L						
e) No Combustion Appliances		PRINCIPAL EXHAI	UST FAN CAPACITY					
		Model:	VANEE 65H	Loc	cation:	BSMT	_	
HEATING SYSTEM		79.5	cfm3.0	sones	✓	HVI Appro	oved	
Forced Air Non Forced Air		PRINCIPAL EXHA	UST HEAT LOSS CAI			% LOS		
		79.5 CFM	X 81 F		1.08 x	0.25		
Electric Space Heat		SUPPLEMENTAL	FANS	PAN	ASONIC			
	0.00.4(0)	Location	Model		ofm HVI	Sones	<u></u>	
HOUSE TYPE	9.32.1(2)	ENS BATH	FV-05-11\ FV-05-11\		50 🗸	0.3		
✓ I Type a) or b) appliance only, no solid fuel		ENS-4	FV-05-11\		50 🗸	0.3		
		PWD	FV-05-11	VK1	50 🗸	0.3		
II Type I except with solid fuel (including fireplaces)		HEAT RECOVERY	VENTU ATOR			9.32.	3 11	
III Any Type c) appliance		Model:	VANEE 6	55H		3.32.	3.11.	
		155	cfm hig		64	cfm lov	"	
IV Type I, or II with electric space heat		75	O/ Caraible Fr			LD // A ====		
Other: Type I, II or IV no forced air		75	% Sensible Ei @ 32 deg F (-		HVI Appro	ovea	
		LOCATION OF INS	71114701					
SYSTEM DESIGN OPTIONS	O.N.H.W.P.	LOCATION OF INS	STALLATION					
5 to set of 5 and 4 in Octor		Lot:		Conc	ession			
1 Exhaust only/Forced Air System		Township		Plan:				
2 HRV with Ducting/Forced Air System		Address						
3 HRV Simplified/connected to forced air system	l	Roll #		Buildi	ng Permit#			
4 HRV with Ducting/non forced air system		BUILDER:	GREENPARI	LIONES				
Part 6 Design		BUILDER:	GREENPARI	(HOWES	☆		I	
		Name:		······································	– 🕋 E	East Gv	willi	mbury
TOTAL VENTILATION CAPACITY	9.32.3.3(1)	Address:			Our town, Our fatter	Building Standa	rds Branch	BCIN #16487
Basement + Master Bedroom 2 @ 21.2 cfm 42.4	cfm	City:			These plans ha	ve been revi	ewed fo	or use with the
Other Bedrooms 3 @ 10.6 cfm 31.8	cfm	Telephone #:		Fax #	made without Standards Bran	written app ich. All wo	roval of ork mus	f the Buildin t comply wit
	.				Zoning By-Lav Ontario Build	ing Code,	as am	ended. Thes
Kitchen & Bathrooms 5 @ 10.6 cfm 53 Other Rooms 5 @ 10.6 cfm 53.0	cfm cfm	INSTALLING CON	TRACTOR		approved docu times. The bi posted on site a	ilding peri		
					Discipline Building Code	Reviewer H. Authier		
Table 9.32.3.A. TOTAL <u>180.2</u>	cfm	Address:			Sewage System		43230	2021-02-23
		City:			Zoning			
PRINCIPAL VENTILATION CAPACITY REQUIRED	9.32.3.4.(1)	Tolophone #:		Foy t	4.		1	
1 Bedroom 31.8	cfm	Telephone #:		Fax #	·			
		DESIGNER CERTI						
2 Bedroom 47.7	cfm	, , ,	this ventilation system	•	i	,		
3 Bedroom 63.6	cfm	Name:	the Ontario Building C HVAC Desig					
4 Bedroom 79.5	cfm	Signature:		Michael Of	Poule.			
5 Bedroom 95.4	cfm	HRAI#		0018	**			
TOTAL 79.5 cfm		Date:		Februa				
I REVIEW AND TAKE RESPONIBILITY FOR THE DESIGN WORK AND AM QUA			N "ÖTHER DESIGNER" UND	ER DIVISION C, 3.2.5 OF	THE BUILDING CO	DE.		
Maked Office.	~ VI 11 14.							



	CSA F280-12 Residential Heat Loss and Heat Gain Calculations											
			Form	ula Sheet (For Air Leak	age / Ventiliation C	Calculation)						
LO#:	81524	Model: GLENWAY 12	A	Builder:	GREENPARK HOMES				Date:	2/22/2019		
		Volume Calculation	1		Air Change & Delta T Data							
louse Volume			1			WINTER NA	TURAL AIR CHANG	F RATE	0.247			
Level	Floor Area (ft²)	Floor Height (ft)	Volume (ft³)				ATURAL AIR CHANG		0.069			
Bsmt	1462	9	13158						0.005			
First	1462	10	14620									
Second	1580	9	14220				Design Te	mperature Diffe	erence	All the description of the second of the sec		
Third	0	9	0				Tin °C	Tout °C	ΔT°C	ΔT °F		
Fourth	0	9	0			Winter DTDh	22	-23	45	81		
		Total:	41,998.0 ft ³		•	Summer DTDc	24	30	6	11		
		Total:	1189.3 m³									
									·			
	5.2.3	.1 Heat Loss due to Air	r Leakage			6.2.6	Sensible Gain due	to Air Leakage		<u> </u>		
	$HL_{airb} =$	$LR_{airh} \times \frac{V_b}{3.6} \times D$	$TD_h \times 1.2$		H	$HG_{salb} = LR_{airc} \times$	$\times \frac{V_b}{3.6} \times DTD_c$	× 1.2				
0.247		x 45 °C		= 4436 W	= 0.069	_ x <u>330.35</u>	x <u>6°C</u>	x <u>1.2</u>	. = [167 W		
				= 15135 Btu/h					= [569 Btu/h		
	5.2.3.2 Hea	at Loss due to Mechan	ical Ventilation			6.2.7 Sei	nsible heat Gain d	ue to Ventilatio	n			
	$HL_{vairb} =$	$PVC \times DTD_h \times 1$	$.08 \times (1-E)$	N. P.	HL	$v_{vairb} = PVC \times D$	$TD_h \times 1.08 \times$	(1-E)				
80 CFM	x 81 °F	x <u>1.08</u>	x <u>0.25</u>	= 1747 Btu/h	80 CFM	x <u>11 °F</u>	_ x <u>1.08</u>	x <u>0.25</u>	. = [236 Btu/h		
	<u> </u>		5.2.3.3 Calculat	ion of Air Change Heat Lo	ss for Each Room (Flo	or Multiplier Section)						
						· · · · · · · · · · · · · · · · · · ·						

$HL_{airr} = Level\ Factor\ imes\ HL_{airbv}\ imes$	$\times \{ (HL_{agcr} + HL_{bgcr}) \}$	$) \div \left(HL_{agclevel} + HL_{bgclevel} \right) \}$
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Level	Level Factor (LF)	HLairve Air Leakage + Ventilation Heat Loss (Btu/h)	Level Conductive Heat Loss: (HL _{clevel})	Air Leakage Heat Loss Multiplier (LF x HLairbv / HLlevel)
1	0.5		9,938	0.762
2	0.3		15,061	0.301
3	0.2	15,135	12,483	0.243
4	0		0	0.000
5	0		0	0.000

^{*}HLairbv = Air leakage heat loss + ventilation heat loss

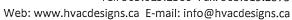


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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-25
Sewage System			
Zoning			

^{*}For a balanced or supply only ventilation system HLairve = 0







HEAT LOSS AND GAIN SUMMARY SHEET

MODEL:	GLENWAY 12A			BUILDER: GREENPARK HOMES	
SFQT:	2969	LO#	81524	SITE: TRINAR HALL HOMES	
J. Q1.	2505	LO	01324	SITE. TRINAR HALL HOWLES	
DESIGN A	SSUMPTIONS				
HEATING			°F	COOLING	°F
	R DESIGN TEMP.		-9	OUTDOOR DESIGN TEMP.	86
	DESIGN TEMP.		72	INDOOR DESIGN TEMP. (MAX 75°F)	75
					, 5
BUILDING	DATA		- Charles and the Control of the Con		
ATTACHM	IFNT:		DETACHED	# OF STORIES (+BASEMENT):	3
			22.7.025	" of oronics ("Brochierty).	3
FRONT FA	CES:		EAST	ASSUMED (Y/N):	Υ
AIR CHAN	GES PER HOUR:		2.50	ASSUMED (Y/N):	Υ
AIR TIGHT	NESS CATEGORY:		TIGHT	ASSUMED (Y/N):	Υ
				<i>、,,</i>	
WIND EXP	OSURE:	:	SHELTERED	ASSUMED (Y/N):	Υ
HOUSE VO	DLUME (ft³):		41998.0	ASSUMED (Y/N):	Υ
	, ,			(,,,,	
INTERNAL	SHADING:	BLINDS	/CURTAINS	ASSUMED OCCUPANTS:	5
INTERIOR	LIGHTING LOAD (Btu/	h/ft²):	1.27	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
	22.2.0		00.0.0	L. COLD I LIMITE I LIM	137.011



2012 OBC - COMPLIANCE PACKAGE	These plans have corrections as i	noted. No	other char	iges may be	Compliance	e Package
Component	made without v Standards Bran Zoning By-Lav	ch. All wo	rk must o	comply with	1 -	SYSTAR
	Ontario Buildi approved docur	ng Code,	Nominal	Min. Eff.		
Ceiling with Attic Space Minimum RSI (R)-Value	times. The but	ilding peri			60	59.20
Ceiling Without Attic Space Minimum RSI (R)-Value	Discipline	Reviewer	BCIN	Date	31	27.70
Exposed Floor Minimum RSI (R)-Value	Building Code Sewage System	H. Authier	43236	2021-02-25	31	29.80
Walls Above Grade Minimum RSI (R)-Value	Zoning				R22+R5	21.10
Basement Walls Minimum RSI (R)-Value					20	21.12
Below Grade Slab Entire surface > 600 mm below grade Minim	num RSI (R)	-Value			-	-
Edge of Below Grade Slab ≤ 600 mm Below Grade Minimum R	SI (R)-Value	9			10	10
Heated Slab or Slab ≤ 600 mm below grade Minimum RSI (R)-\	/alue				10	11.13
Windows and Sliding Glass Doors Maximum U-Value					ZONE 2	-
Skylights Maximum U-Value					ZONE 2	-
Space Heating Equipment Minimum AFUE					0.96	-
HRV Minimum Efficiency					75%	-
Domestic Hot Water Heater Minimum EF					0.9	-

INDIVIDUAL BCIN: 19669 MICHAEL O'ROURKE





Residential Foundation Thermal Load Calculator

Supplemental tool for CAN/CSA-F280

We	eather Sta	ation Description						
Province:	Ontario							
Region:	Bradford							
	Site D	escription						
Soil Conductivity:	Normal	conductivity: dry sand, loam, clay						
Water Table:	Normal	(7-10 m, 23-33 ft)						
	Foundation	on Dimensions						
Floor Length (m):	18.0							
Floor Width (m):	11.6							
Exposed Perimeter (m):	0.0							
Wall Height (m):	2.7							
Depth Below Grade (m):	1.98	Insulation Configura	tion					
Window Area (m²):	1.3		And the second s					
Door Area (m²):	1.9							
	Radi	iant Slab						
Heated Fraction of the Slab:	0							
Fluid Temperature (°C):	33							
	Desig	n Months	East Gwillimbury					
Heating Month	1		Building Standards Branch BCIN #16487 These plans have been reviewed for use with the					
	Founda	ation Loads	corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with					
Heating Load (Watts): 1959 Algorithm Law 2018-043, as amend Ontario Building Code, as amend approved documents must be kept of times. The building permit must posted on site at all times.								
TVDE: CLENIA/AV 12A			Discipline Reviewer BCIN Date Building Code H. Authier 43236 2021-02-25					

TYPE: GLENWAY 12A

LO# 81524

Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-25
Sewage System			
Zoning			





Air Infiltration Residential Load Calculator

Supplemental tool for CAN/CSA-F280

Weathe	er Station Description
Province:	Ontario
Region:	Bradford
Weather Station Location:	Open flat terrain, grass
Anemometer height (m):	10
	Local Shielding
Building Site:	Suburban, forest
Walls:	Heavy
Flue:	Heavy
Highest Ceiling Height (m):	7.62
Build	ling Configuration
Type:	Detached
Number of Stories:	Two
Foundation:	Full .
House Volume (m³):	1189.3
Air Le	eakage/Ventilation
Air Tightness Type:	Energy Star Detached (2.5 ACH)
Custom BDT Data:	ELA @ 10 Pa. 1110.2 cm ²
	2.50 ACH @ 50 Pa
Mechanical Ventilation (L/s):	Total Supply Total Exhaust
	37.5 37.5
	Flue Size
Flue #:	#1 #2 #3 #4
Diameter (mm):	0 0 0 0
Natur	al Infiltration Rates
Heating Air Leakage Rate (A	CH/H): 0.247

0.069

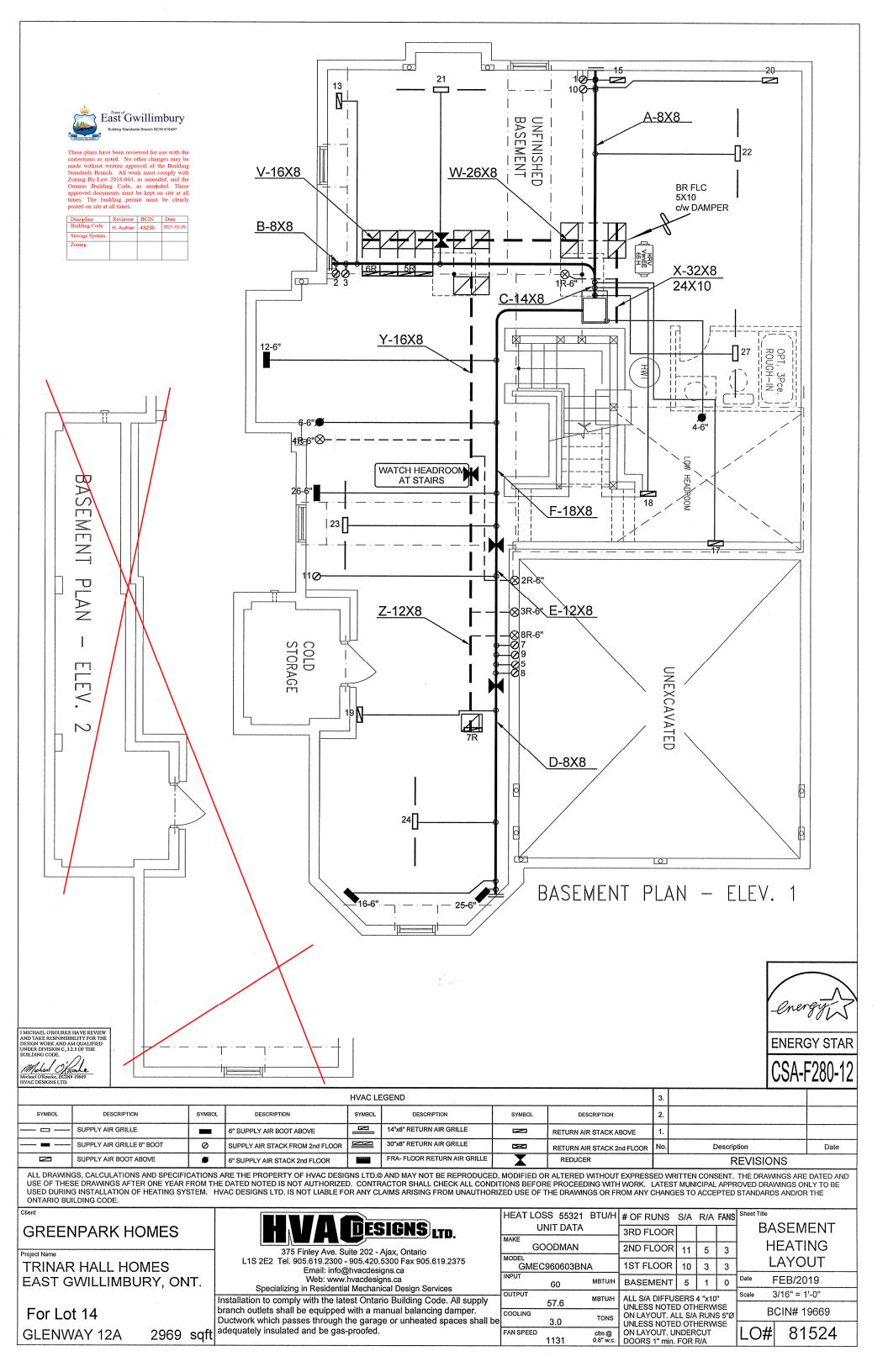
TYPE: GLENWAY 12A **LO#** 81524

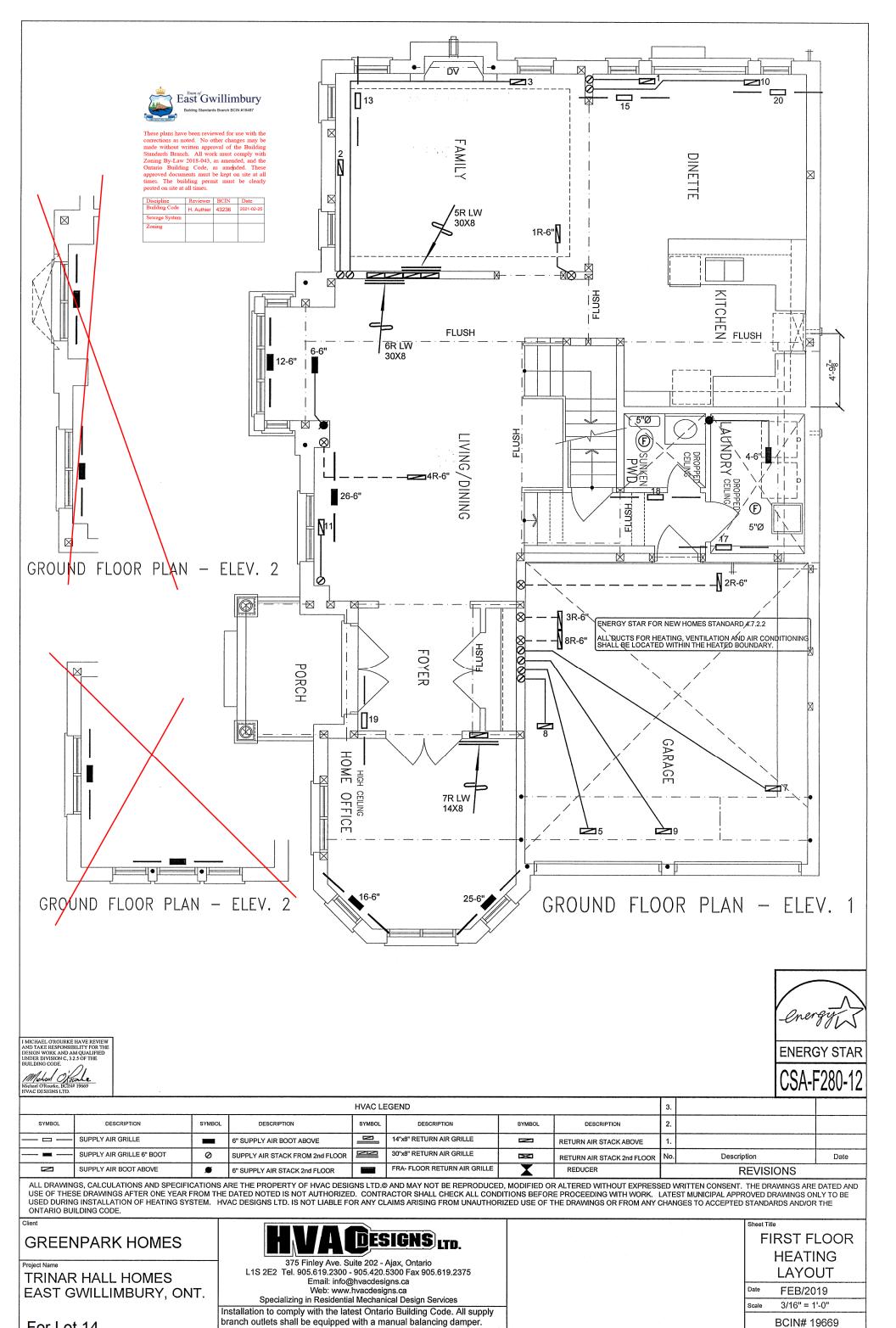
Cooling Air Leakage Rate (ACH/H):



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Reviewer	BCIN	Date
H. Authier	43236	2021-02-25





Ductwork which passes through the garage or unheated spaces shall be

81524

adequately insulated and be gas-proofed.

For Lot 14

GLENWAY 12A

2969 sqft

