

-	E NAME: T										_ot 21									Feb-19					R NATURAL AIR CHANGE RATE 0.24		S ΔT °F.	. 81			CSA-F280
	UILDER: C	SREEN	IPARK	HOMES					TYPE:	BREN	TWOOD	9 4			GFA:	2858				81520				SUMME	R NATURAL AIR CHANGE RATE 0.06	9 HEAT GAIN	I ΔT °F.	. 11		E	NERGYST
1	OM USE				MBR			ENS		l	WIC			BED-2			BED-3			BED-4		1	BATH			ENS-2					
1	P. WALL				23			12		1	10			42			. 26			16		l	12			12	1				
°	CLG. HT.				9		1	9		l	9			9		100	9			9		1	9		· · · · · · · · · · · · · · · · · · ·	9					
i	F	FACTO	RS							l												1					1		1		
GRS.WAL	L AREA I	LOSS	GAIN		207		1	108		1	90			378			234			144		1	108		1	108	1				
l G	LAZING			l	LOSS	GAIN		LOSS	GAIN	1	LOSS	GAIN			GAIN	1		GAIN			GAIN	1	LOSS	CAIN			.1				
1	1	20.4	15.1	١٥	0	0	٥	0	0	١٠	0	0	0	0	0		0	0	0	0	0		0			LOSS GAIN	'				
1		20.4	40.7	١٠	0	0	١٥	0	0	١٠	-	-	-	-		"	-		-	-	-	1 -		0		0 0 0	1				
ı				-	-		1 -	-	-	1 -	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0 0 0	1				
1		20.4	24.1	0	0	0	10	204	241	0	0	0	0	0	0	0	0	0	16	326	385	7	142	168		0 0 0	1				
		20.4	40.7	36	733	1466	16	326	651	0	0	0	41	834	1669	24	488	977	0	0	0	0	0	0	l	0 0 0	1				
lt .		34.2	99.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0 0 0	1				
	DOORS	27.0	3.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0 0 0	1				
NET EXPOSE	D WALL	3.9	0.5	171	660	89	82	316	43	90	347	47	337	1300	176	210	810	109	128	494	67	101	390	53		108 417 56	1				
NET EXPOSED BSMT WALL	ABOVE GR	3.9	0.5	0	0	0	0	0	0	0	0	0	0	0	0	۱ ۰	0	0	0	0	0	0	0	0		0 0 0	1				
EXPOS	ED CLG	1.4	0.6	132	182	74	204	281	114	170	234	95	255	351	142	174	239	97	192	264	107	144	198	80		216 297 120					
NO ATTIC EXPOS	i	2.9	1.2	0	0	0	0	0	0	0	0	0	52	153	62	21	62	25	0	0	0	0	0	0		1					
EXPOSED		2.7	0.4	0	0	0	0	0	0	0		0							_	-	-	1		-		0 0 0	1				
		2.1	0.4	ľ		U	ľ	•	U	1 "	0	U	307	839	113	28	76	10	0	0	0	0	0	0		34 93 13	1				
BASEMENT/CRAWL HEA					0		1	0			0			0			0			0			0			0	İ				
SLAB ON GRADE HEA					0		1	0			0			0		1	0			0			0			0					
SUBTOTAL H					1574		1	1126			581			3476		l	1676			1083			730		1	807	1				
SUB TOTAL F	HT GAIN					1629	1		1049			142			2163	l		1219			559			301		189					
LEVEL FACTOR / MUL	TIPLIER			0.20	0.25		0.20	0.25		0.20	0.25		0.20	0.25		0.20	0.25		0.20	0.25		0.20	0.25			0.20 0.25					
AIR CHANGE HEA	T LOSS				394			282			145			870			419			271		0.20	183		l l	E .	į				
AIR CHANGE HEA						92			59		.40	8		0.0	122		415	69		271	22	i	103	47	1	202	1				
	TLOSS				0	32		0	09		0	۰		405	122	l		69		_	32		_	17		11	1				
	CT GAIN				U			U	_	l	U	_		435		1	210			0			0			101	1				
1	- 1			_		0			0	l		0			330	l		230			0			0		20	1				
HEAT GAIN F		240		2		480	0		0	0		0	1		240	1		240	1		240	0		0		0 0	1				
HEAT GAIN APPLIANCES						773	l		0	l		0			773	l		773			773			0	1	0					
TOTAL HT LOSS					1968			1408		1	726			4781		1	2305			1355		İ	913			1109	1				
TOTAL HT GAIN x 1.3	3 BTU/H					3866			1440			195			4716			3291			2085			414		1	1				
																									i i	1 286					
																						L				236		***			
	OM USE				DN/LV					Ι	KT/FM			LAUN						W/R		<u> </u>	FOY			236	T	WOD			BAS
EXF	P. WALL				DN/LV 23						KT/FM 66			LAUN 36						W/R 9		<u> </u>	FOY 40			236		WOD 38			BAS 176
EXF																										236					
EXF	P. WALL CLG. HT.	ACTO			23						66			36						9			40			236		38			176
EXF	P. WALL CLG. HT.				23 10						66 10			36 10						9 10			40 10			236		38 9			176 9
EXF C GRS.WAL	P. WALL LG. HT. F L AREA L				23 10 230	GAIN					66 10 660	GAIN		36 10 360	GAIN					9 10 90			40 10 400			236		38 9 342			176 9 1170
EXF C GRS.WAL G	P. WALL CLG. HT. F LL AREA L CLAZING	.oss	GAIN	0	23 10 230 LOSS						66 10 660 LOSS	GAIN		36 10 360 LOSS	GAIN					9 10 90 LOSS	GAIN		40 10 400 LOSS	GAIN		236		38 9 342 LOSS		ı	176 9 1170 LOSS GA
EXF C GRS.WAL G	P. WALL CLG. HT. F L AREA LAZING NORTH	.oss 20.4	GAIN 15.1	0	23 10 230 LOSS 0	0				0	66 10 660 LOSS 0	0	0	36 10 360 LOSS 0	0				0	9 10 90 LOSS 0	GAIN 0	0	40 10 400 LOSS 0	GAIN 0		236	0	38 9 342 LOSS 0	0	0	176 9 1170 LOSS GA 0 0
EXF C GRS.WAL G	P. WALL CLG. HT. F IL AREA L LAZING NORTH EAST	.OSS 20.4 20.4	940.7	0	23 10 230 LOSS 0	0				0	66 10 660 LOSS 0	0	0	36 10 360 LOSS 0	0				0 0	9 10 90 LOSS 0	GAIN 0 0	16	40 10 400 LOSS 0 326	GAIN 0 651		236	0 0	38 9 342 LOSS	0	ı	176 9 1170 LOSS GA
EXF C GRS.WAL G	P. WALL CLG. HT. F LL AREA L CLAZING NORTH EAST SOUTH	20.4 20.4 20.4 20.4	15.1 40.7 24.1	0 32	23 10 230 LOSS 0 0 651	0 0 770				0	66 10 660 LOSS 0 0	0 0 0	0	36 10 360 LOSS 0	0				0	9 10 90 LOSS 0	GAIN 0	-	40 10 400 LOSS 0	GAIN 0	Town of		0	38 9 342 LOSS 0	0	0	176 9 1170 LOSS GA 0 0
EXF C GRS.WAL G	P. WALL CLG. HT. F L. AREA L CLAZING NORTH EAST SOUTH WEST	20.4 20.4 20.4 20.4 20.4	15.1 40.7 24.1 40.7	0 32 0	23 10 230 LOSS 0 0 651	0 0 770 0				0 0 60	66 10 660 LOSS 0	0 0 0 2443	0	36 10 360 LOSS 0 0	0				0 0	9 10 90 LOSS 0	GAIN 0 0	16	40 10 400 LOSS 0 326	GAIN 0 651	East Gw	illimbury	0 0	38 9 342 LOSS 0	0	0	176 9 1170 LOSS GA 0 0
EXF C GRS.WAL G	P. WALL CLG. HT. F LAREA L CLAZING NORTH EAST SOUTH WEST SKYLT.	20.4 20.4 20.4 20.4 20.4 34.2	15.1 40.7 24.1	0 32	23 10 230 LOSS 0 0 651	0 0 770				0	66 10 660 LOSS 0 0	0 0 0	0	36 10 360 LOSS 0 0	0				0 0	9 10 90 LOSS 0 0	GAIN 0 0 193	16 0	40 10 400 LOSS 0 326 0	GAIN 0 651		illimbury	0 0 0	38 9 342 LOSS 0 0	0 0 0	0 0 6	176 9 1170 LOSS GA 0 0 0 0
EXF C GRS.WAL G	P. WALL CLG. HT. F L AREA LAZING NORTH EAST SOUTH WEST SKYLT.	20.4 20.4 20.4 20.4 20.4	15.1 40.7 24.1 40.7	0 32 0	23 10 230 LOSS 0 0 651	0 0 770 0				0 0 60	66 10 660 LOSS 0 0 0	0 0 0 2443	0	36 10 360 LOSS 0 0	0 0 0				0 0 8 0	9 10 90 LOSS 0 0 163 0	GAIN 0 0 193 0	16 0 0	40 400 LOSS 0 326 0	GAIN 0 651 0			0 0 0 12	38 9 342 LOSS 0 0 0	0 0 0 489	0 0 6 0	176 9 1170 LOSS GA 0 0 0 0 122 14 0 0
EXF C GRS.WAL G	P. WALL CLG. HT. F. L AREA LAZING NORTH EAST SOUTH WEST SKYLT. DOORS	20.4 20.4 20.4 20.4 20.4 34.2	15.1 40.7 24.1 40.7 99.9	0 32 0 0	23 10 230 LOSS 0 0 651 0	0 0 770 0 0				0 0 60 0	66 10 660 LOSS 0 0 0 1221	0 0 0 2443 0	0 0	36 10 360 LOSS 0 0 0	0 0 0 0				0 0 8 0	9 10 90 LOSS 0 0 163 0	GAIN 0 0 193 0	16 0 0	40 10 400 LOSS 0 326 0 0	GAIN 0 651 0 0		illimbury	0 0 0 0 12	38 9 342 LOSS 0 0 0 244	0 0 0 489 0	0 0 6 0	176 9 1170 LOSS GA 0 0 0 0 122 14 0 0
EXF C GRS.WAL G	P. WALL CLG. HT. F. L AREA L CLAZING NORTH EAST SOUTH WEST SKYLT. DOORS D WALL	20.4 20.4 20.4 20.4 20.4 34.2 27.0	15.1 40.7 24.1 40.7 99.9 3.7	0 32 0 0	23 10 230 LOSS 0 0 651 0	0 0 770 0 0				0 0 60 0	660 LOSS 0 0 0 1221 0	0 0 0 2443 0	0 0 0 0 20	36 10 360 LOSS 0 0 0 0	0 0 0 0 0 0 73				0 0 8 0 0	9 10 90 LOSS 0 0 163 0	GAIN 0 0 193 0 0	16 0 0 0 0	400 400 LOSS 0 326 0 0 811 1366	GAIN 0 651 0 0	Building Standards	illimbury Branch BCIN #16487	0 0 0 12 0 0	38 9 342 LOSS 0 0 0 244 0 0	0 0 0 489 0 0	0 0 6 0 0 20	176 9 1170 LOSS GA 0 0 0 122 14 0 0 0 0 541 73 0 0
EXF C GRS.WAL G NET EXPOSEI NET EXPOSEI NET EXPOSEI	P. WALL CLG. HT. F.L. AREA L CLAZING NORTH EAST SOUTH WEST SKYLT. DOORS D WALL ABOVE GR	20.4 20.4 20.4 20.4 20.4 34.2 27.0 3.9 3.9	15.1 40.7 24.1 40.7 99.9 3.7 0.5	0 32 0 0 0 0	23 10 230 LOSS 0 0 651 0 0 764	0 0 770 0 0 0				0 60 0 600 0	66 10 660 LOSS 0 0 0 1221 0 0 2315	0 0 2443 0 0 313	0 0 0 0 20 340 0	36 10 360 LOSS 0 0 0 0 0 0 541 1312 0	0 0 0 0 0 73 177				0 8 0 0 0 82	9 10 90 LOSS 0 0 163 0 0 316	GAIN 0 0 193 0 0 0 43	16 0 0 0 30 354	400 400 LOSS 0 326 0 0 811 1366	GAIN 0 651 0 0 110 185		illimbury Branch BCIN #16487	0 0 0 12 0 0 0	38 9 342 LOSS 0 0 0 244 0 0 0 833	0 0 0 489 0 0 113	0 0 6 0 0 20 0 414	176 9 1170 LOSS GA 0 0 0 122 14 0 0 0 541 73 0 0
EXF C GRS.WAL G NET EXPOSEI NET EXPOSEI NET EXPOSEI EXPOSI	P. WALL CLG. HT. FL AREA L CLAZING NORTH EAST SOUTH WEST SKYLT. DOORS D WALL ABOVE GR ED CLG	20.4 20.4 20.4 20.4 34.2 27.0 3.9 3.9	15.1 40.7 24.1 40.7 99.9 3.7 0.5 0.5	0 32 0 0 0 198 0	23 10 230 LOSS 0 0 651 0 0 764 0	0 0 770 0 0 0 103 0				0 60 0 600 0	66 10 660 LOSS 0 0 0 1221 0 0 2315 0	0 0 0 2443 0 0 313 0	0 0 0 0 20 340 0	36 10 360 LOSS 0 0 0 0 0 0 541 1312 0	0 0 0 0 0 73 177 0				0 0 8 0 0 0 82 0	9 10 90 LOSS 0 0 163 0 0 316 0	GAIN 0 0 193 0 0 43 0	16 0 0 0 30 354 0	40 10 400 LOSS 0 326 0 0 811 1366 0	GAIN 0 651 0 0 110 185 0	Building Standards  These plans have been revier corrections as noted. No of made without written appro	illimbury Branch BCIN #16487  yed for use with the er changes may be val of the Building	0 0 0 12 0 0 0 216	38 9 342 LOSS 0 0 0 244 0 0 0 833 0	0 0 0 489 0 0 0 113	0 0 6 0 0 20 0 414	1170 LOSS GA 0 0 0 1122 14 0 0 0 541 7: 0 0 1596 21
EXF C GRS.WAL G NET EXPOSEI NET EXPOSEI NET EXPOSEI NET EXPOSEI NO ATTIC EXPOSI	P. WALL CLG. HT. FL AREA L CLAZING NORTH EAST SOUTH WEST SKYLT. DOORS D WALL ABOVE GR ED CLG	20.4 20.4 20.4 20.4 34.2 27.0 3.9 3.9 1.4 2.9	GAIN 15.1 40.7 24.1 40.7 99.9 3.7 0.5 0.5 0.6 1.2	0 32 0 0 0 198 0	230 100 230 LOSS 0 0 651 0 0 764 0	0 0 770 0 0 0 103 0 0				0 0 60 0 0 600 0	66 10 660 LOSS 0 0 1221 0 0 2315 0	0 0 0 2443 0 0 313 0 0	0 0 0 0 20 340 0	36 10 360 LOSS 0 0 0 0 0 541 1312 0	0 0 0 0 0 73 177 0 0				0 0 8 0 0 0 82 0	9 10 90 LOSS 0 0 163 0 0 316 0	GAIN 0 0 193 0 0 43 0	16 0 0 0 30 354 0	40 10 400 LOSS 0 326 0 0 811 1366 0	GAIN 0 651 0 0 110 185 0	Building Standards  These plans have been revier corrections as noted. No of made without written appro Standards Branch. All world	illimbury Branch BCIN #16487  ved for use with the er changes may be val of the Building must comply with	0 0 0 12 0 0 0 216	38 9 342 LOSS 0 0 0 244 0 0 0 833 0	0 0 489 0 0 0 113 0	0 0 6 0 0 20 0 414 0	176 9 1170 LOSS GA 0 0 0 122 14 0 0 0 541 7: 0 0 0 1596 21 0 0 0
GRS.WAL G  NET EXPOSEI NET EXPOSED BSMT WALL A  EXPOSI NO ATTIC EXPOSI EXPOSED	P. WALL CLG. HT. FL AREA L LAZING NORTH EAST SOUTH WEST SKYLT. DOORS D WALL ED CLG ED CLG FLOOR	20.4 20.4 20.4 20.4 34.2 27.0 3.9 3.9	15.1 40.7 24.1 40.7 99.9 3.7 0.5 0.5	0 32 0 0 0 198 0	23 10 230 LOSS 0 0 651 0 0 764 0	0 0 770 0 0 0 103 0				0 60 0 600 0	66 10 660 LOSS 0 0 1221 0 0 2315 0 0	0 0 0 2443 0 0 313 0	0 0 0 0 20 340 0	36 10 360 LOSS 0 0 0 0 0 541 1312 0 0	0 0 0 0 0 73 177 0				0 0 8 0 0 0 82 0	9 10 90 LOSS 0 0 163 0 0 316 0	GAIN 0 0 193 0 0 43 0	16 0 0 0 30 354 0	40 10 400 LOSS 0 326 0 0 811 1366 0 0	GAIN 0 651 0 0 110 185 0	Building Standards  These plans have been revier corrections as noted. No of made without written appro Standards Branch. All worl Zoning By-Law 2018-043, a	illimbury Branch BCIN #16487  ved for use with the ter changes may be val of the Building must comply with a samended, and the	0 0 0 12 0 0 0 216	38 9 342 LOSS 0 0 0 244 0 0 0 833 0	0 0 0 489 0 0 0 113	0 0 6 0 0 20 0 414 0	1776 9 1170 LOSS GA 0 0 0 0 122 14 0 0 0 0 541 7: 0 0 1596 21 0 0 0 0
RET EXPOSEI  NET EXPOSEI  NET EXPOSEI  NET EXPOSI  NO ATTIC EXPOSI  EXPOSED  BASEMENT/CRAWL HEA	P. WALL CLG. HT. F. LL AREA L FLAZING NORTH EAST SOUTH WEST SKYLT. DOORS D WALL ABOVE GR ED CLG FLOOR T LOSS	20.4 20.4 20.4 20.4 34.2 27.0 3.9 3.9 1.4 2.9	GAIN 15.1 40.7 24.1 40.7 99.9 3.7 0.5 0.5 0.6 1.2	0 32 0 0 0 198 0	23 10 230 LOSS 0 0 651 0 0 764 0 0	0 0 770 0 0 0 103 0 0				0 0 60 0 0 600 0	66 10 660 LOSS 0 0 1221 0 2315 0 29 0	0 0 0 2443 0 0 313 0 0	0 0 0 0 20 340 0	36 10 360 LOSS 0 0 0 0 541 1312 0 0	0 0 0 0 0 73 177 0 0				0 0 8 0 0 0 82 0	9 10 90 LOSS 0 0 163 0 0 316 0 0	GAIN 0 0 193 0 0 43 0	16 0 0 0 30 354 0	40 10 400 LOSS 0 326 0 0 811 1366 0 0	GAIN 0 651 0 0 110 185 0	These plans have been revier corrections as noted. No of made without written appro Standards Branch. All worl Zoning By-Law 2018-043, & Ontario Building Code, a	illimbury Branch BCIN #16487  ved for use with the ter changes may be all of the Building must comply with s amended, and the is amended. These	0 0 0 12 0 0 0 216	38 9 342 LOSS 0 0 0 244 0 0 0 833 0	0 0 489 0 0 0 113 0	0 0 6 0 0 20 0 414 0	176 9 1170 LOSS GA 0 0 0 122 14 0 0 0 541 7: 0 0 0 1596 21 0 0 0
REXECT OF CONTROL OF C	P. WALL CLG. HT. F. L. AREA L LAZING NORTH EAST SOUTH WEST SKYLT. DOORS D WALL ABOVE GR ED CLG ED CLG ET CL	20.4 20.4 20.4 20.4 34.2 27.0 3.9 3.9 1.4 2.9	GAIN 15.1 40.7 24.1 40.7 99.9 3.7 0.5 0.5 0.6 1.2	0 32 0 0 0 198 0	23 10 230 LOSS 0 0 651 0 0 764 0 0 0	0 0 770 0 0 0 103 0 0				0 0 60 0 0 600 0	66 10 660 LOSS 0 0 1221 0 2315 0 29 0	0 0 0 2443 0 0 313 0 0	0 0 0 0 20 340 0	36 10 360 LOSS 0 0 0 0 541 1312 0 0 0	0 0 0 0 0 73 177 0 0				0 0 8 0 0 0 82 0	9 10 90 LOSS 0 0 163 0 0 316 0 0	GAIN 0 0 193 0 0 43 0	16 0 0 0 30 354 0	40 10 400 LOSS 0 326 0 0 811 1366 0 0	GAIN 0 651 0 0 110 185 0	These plans have been revier corrections as noted. No of made without written appro Standards Branch. All word Zoning By-Law 2018-043, a Ontario Building Code, a approved documents must b	illimbury Branch BCIN #16487  yed for use with the ter changes may be val of the Building must comply with s amended, and the is amended. These kept on site at all	0 0 0 12 0 0 0 216	38 9 342 LOSS 0 0 0 244 0 0 0 833 0	0 0 489 0 0 0 113 0	0 0 6 0 0 20 0 414 0	1776 9 1170 LOSS GA 0 0 0 0 122 14 0 0 0 0 541 7: 0 0 1596 21 0 0 0 0
GRS.WAL G  NET EXPOSEI NET EXPOSED BSMT WALL A EXPOSI NO ATTIC EXPOSI EXPOSED BASEMENT/CRAWL HEA SLAB ON GRADE HEA' SUBTOTAL H	P. WALL CLG. HT. F. L. AREA L LAZING NORTH EAST SOUTH WEST SKYLT. DOORS D WALL ABOVE GR ED CLG FLOOR TL OSS IT LOSS	20.4 20.4 20.4 20.4 34.2 27.0 3.9 3.9 1.4 2.9	GAIN 15.1 40.7 24.1 40.7 99.9 3.7 0.5 0.5 0.6 1.2	0 32 0 0 0 198 0	23 10 230 LOSS 0 0 651 0 0 764 0 0	0 0 770 0 0 0 103 0 0				0 0 60 0 0 600 0	66 10 660 LOSS 0 0 1221 0 2315 0 29 0	0 0 0 2443 0 0 313 0 0	0 0 0 0 20 340 0	36 10 360 LOSS 0 0 0 0 541 1312 0 0	0 0 0 0 0 73 177 0 0				0 0 8 0 0 0 82 0	9 10 90 LOSS 0 0 163 0 0 316 0 0	GAIN 0 0 193 0 0 43 0	16 0 0 0 30 354 0	40 10 400 LOSS 0 326 0 0 811 1366 0 0	GAIN 0 651 0 0 110 185 0	These plans have been revier corrections as noted. No of made without written appro Standards Branch. All worl Zoning By-Law 2018-043, a Ontario Building Code, a approved documents must b times. The building permanents of the standard of	illimbury Branch BCIN #16487  yed for use with the ter changes may be val of the Building must comply with s amended, and the is amended. These kept on site at all	0 0 0 12 0 0 0 216	38 9 342 LOSS 0 0 0 244 0 0 0 833 0	0 0 489 0 0 0 113 0	0 0 6 0 0 20 0 414 0	1776 9 1170 LOSS GA 0 0 0 0 122 14 0 0 0 0 541 7: 0 0 1596 21 0 0 0 0
REXECT OF CONTROL OF C	P. WALL CLG. HT. F. L. AREA L LAZING NORTH EAST SOUTH WEST SKYLT. DOORS D WALL ABOVE GR ED CLG FLOOR TL OSS IT LOSS	20.4 20.4 20.4 20.4 34.2 27.0 3.9 3.9 1.4 2.9	GAIN 15.1 40.7 24.1 40.7 99.9 3.7 0.5 0.5 0.6 1.2	0 32 0 0 0 198 0	23 10 230 LOSS 0 0 651 0 0 764 0 0 0	0 0 770 0 0 0 103 0 0				0 0 60 0 0 600 0	66 10 660 LOSS 0 0 1221 0 2315 0 29 0	0 0 0 2443 0 0 313 0 0	0 0 0 0 20 340 0	36 10 360 LOSS 0 0 0 0 541 1312 0 0 0	0 0 0 0 0 73 177 0 0				0 0 8 0 0 0 82 0	9 10 90 LOSS 0 0 163 0 0 316 0 0	GAIN 0 0 193 0 0 43 0	16 0 0 0 30 354 0	40 10 400 LOSS 0 326 0 0 811 1366 0 0	GAIN 0 651 0 0 110 185 0	These plans have been revier corrections as noted. No of made without written appro Standards Branch. All word Zoning By-Law 2018-043, a Ontario Building Code, a approved documents must b	illimbury Branch BCIN #16487  yed for use with the ter changes may be val of the Building must comply with s amended, and the is amended. These kept on site at all	0 0 0 12 0 0 0 216	38 9 342 LOSS 0 0 0 244 0 0 0 833 0 0	0 0 0 489 0 0 0 113 0	0 0 6 0 0 20 0 414 0	176 9 1170 LOSS GA 0 0 0 122 14 0 0 0 541 7: 0 0 0 1596 21 0 0 0 6031
GRS.WAL G  NET EXPOSEI NET EXPOSED BSMT WALL A EXPOSI NO ATTIC EXPOSI EXPOSED BASEMENT/CRAWL HEA SLAB ON GRADE HEA' SUBTOTAL H	P. WALL CLG. HT. F. L. AREA LAZING NORTH EAST SOUTH WEST SKYLT. DOORS D WALL ABOVE GR ED CLG FLOOR TLOSS TLOSS TLOSS TLOSS	20.4 20.4 20.4 20.4 34.2 27.0 3.9 3.9 1.4 2.9	GAIN 15.1 40.7 24.1 40.7 99.9 3.7 0.5 0.5 0.6 1.2	0 32 0 0 0 198 0	23 10 230 LOSS 0 0 651 0 0 764 0 0 0	0 0 770 0 0 0 103 0 0				0 0 60 0 0 600 0	66 10 660 LOSS 0 0 1221 0 2315 0 29 0	0 0 2443 0 0 313 0 0 12	0 0 0 20 340 0 0	36 10 360 LOSS 0 0 0 0 541 1312 0 0 0	0 0 0 0 73 177 0 0				0 0 8 0 0 82 0 0 0	9 10 90 LOSS 0 0 163 0 0 316 0 0 0	GAIN 0 0 1193 0 0 433 0 0 0 0	16 0 0 30 354 0 0	40 10 400 LOSS 0 326 0 0 811 1366 0 0 0 0	GAIN 0 651 0 0 110 185 0 0 0	These plans have been revier corrections as noted. No of made without written appro Standards Branch. All worl Zoning By-Law 2018-043, a approved documents must b times. The building permi posted on site at all times.  Discipline Reviewer	illimbury Branch BCIN #16487  yed for use with the ter changes may be val of the Building must comply with s amended, and the is amended. These kept on site at all	0 0 0 12 0 0 0 216	38 9 342 LOSS 0 0 0 244 0 0 0 833 0 0	0 0 489 0 0 0 113 0	0 0 6 0 0 20 0 414 0	176 9 1170 LOSS GA 0 0 0 122 14 0 0 0 541 73 0 0 0 1596 21 0 0 0 6031
REXPOSEI NET EXPOSEI NET EXPOSED BANT WALL A EXPOSI NO ATTIC EXPOSI EXPOSED BASEMENT/CRAWL HEA SLAB ON GRADE HEA SUBTOTAL H SUB TOTAL H	P. WALL CLG. HT.  L AREA L LAREA L L LAREA L L LAREA L L LAREA L L L L L L L L L L L L L L L L	20.4 20.4 20.4 20.4 34.2 27.0 3.9 3.9 1.4 2.9	GAIN 15.1 40.7 24.1 40.7 99.9 3.7 0.5 0.5 0.6 1.2	0 32 0 0 198 0 0	230 LOSS 0 0 6551 0 0 764 0 0 0 0	0 0 770 0 0 0 103 0 0				0 0 60 0 600 0 0 10	66 10 660 LOSS 0 0 1221 0 2315 0 0 29 0 0 3566	0 0 2443 0 0 313 0 0 12	0 0 0 0 20 340 0	36 10 360 LOSS 0 0 0 0 0 541 1312 0 0 0 0 1853	0 0 0 0 73 177 0 0				0 0 8 0 0 82 0 0 0	9 10 90 LOSS 0 0 163 0 0 0 316 0 0 0 479	GAIN 0 0 1193 0 0 433 0 0 0 0	16 0 0 30 354 0 0	400 LOSS 0 326 0 0 0 8111 1366 0 0 0 2503 0.42	GAIN 0 651 0 0 110 185 0 0 0	These plans have been revier corrections as noted. No of made without written approstandards Branch. All worl Zoning By-Law 2018-043, a Ontario Building Code, a approved documents must b times. The building permiposted on site at all times.	illimbury Branch BCIN #16487  oved for use with the ter changes may be val of the Building must comply with a amended, and the is amended. These kept on site at all is must be clearly	0 0 0 12 0 0 0 216	38 9 342 LOSS 0 0 0 244 0 0 0 833 0 0	0 0 0 489 0 0 0 113 0	0 0 6 0 0 20 0 414 0 0	176 9 1170 LOSS GA 0 0 0 122 14 0 0 0 541 73 0 0 0 1596 21 0 0 0 0 0 6031 8289 43
REXECTION OF THE STATE OF THE S	P. WALL CLG. HT.  L AREA L LAZING NORTH EAST SOUTH WEST SKYLT. DOORS D WALL ABOVE GR ED CLG FLOORS T LOSS IT LOSS IT LOSS IT LOSS IT LOSS IT LOSS IT GEN TIPLIER T LOSS	20.4 20.4 20.4 20.4 34.2 27.0 3.9 3.9 1.4 2.9	GAIN 15.1 40.7 24.1 40.7 99.9 3.7 0.5 0.5 0.6 1.2	0 32 0 0 198 0 0	23 10 230 LOSS 0 0 651 0 0 0 764 0 0 0 0 1415	0 0 770 0 0 0 103 0 0 0				0 0 60 0 600 0 0 10	66 10 660 LOSS 0 0 1221 0 0 2315 0 0 29 0 0	0 0 2443 0 0 313 0 0 12 0	0 0 0 20 340 0 0	36 10 360 LOSS 0 0 0 0 0 541 1312 0 0 0 0	0 0 0 0 73 177 0 0 0				0 0 8 0 0 82 0 0 0	9 10 90 LOSS 0 0 163 0 0 316 0 0 0	GAIN 0 0 193 0 0 0 43 0 0 0 0 235	16 0 0 30 354 0 0	40 10 400 LOSS 0 326 0 0 811 1366 0 0 0 0	GAIN 0 651 0 0 0 110 185 0 0 0 0	These plans have been review corrections as noted. No of made without written appro Standards Branch. All word Zoning By-Law 2018-043, a Ontario Building Code, a approved documents must b times. The building permiposted on site at all times.  Discipline Reviewer Building Code H. Authier	illimbury Branch BCIN #16487  ved for use with the ter changes may be ter changes may be an and the Building must comply with a amended, and the a manched. These kept on site at all t must be clearly	0 0 0 12 0 0 0 216	38 9 342 LOSS 0 0 0 244 0 0 0 833 0 0	0 0 0 489 0 0 0 113 0	0 0 6 0 0 20 0 414 0 0	176 9 1170 LOSS GA 0 0 0 122 14 0 0 0 541 7: 0 0 0 1596 21 0 0 0 6031 8289 43 0.74 6916
GRS.WAL G  NET EXPOSEI NET EXPOSED BSMT WALL A EXPOSI NO ATTIC EXPOSI EXPOSED BASEMENTICRAWL HEA SLAB ON GRADE HEA SUBTOTAL H SUB TOTAL H LEVEL FACTOR / MULT AIR CHANGE HEA AIR CHANGE HEA	P. WALL CLG. HT. L AREA L LAREA L LAZING NORTH EAST SOUTH WEST SKYLT. DOORS D WALL ABOVE GR ED CLG FLOOR T. LOSS T. LO	20.4 20.4 20.4 20.4 34.2 27.0 3.9 3.9 1.4 2.9	GAIN 15.1 40.7 24.1 40.7 99.9 3.7 0.5 0.5 0.6 1.2	0 32 0 0 198 0 0	23 10 230 0 0 651 0 0 764 0 0 0 0 1415	0 0 770 0 0 0 103 0 0				0 0 60 0 600 0 0 10	666 10 660 LOSS 0 0 1221 0 0 2315 0 0 3566	0 0 2443 0 0 313 0 0 12	0 0 0 20 340 0 0	36 10 360 LOSS 0 0 0 0 0 541 1312 0 0 0 0 1853	0 0 0 0 73 177 0 0				0 0 8 0 0 82 0 0 0	9 10 90 LOSS 0 0 163 0 0 0 316 0 0 0 0 0 479	GAIN 0 0 1193 0 0 433 0 0 0 0	16 0 0 30 354 0 0	40 10 400 LOSS 0 326 0 0 0 811 1366 0 0 0 0 2503	GAIN 0 651 0 0 110 185 0 0 0	These plans have been revier corrections as noted. No ot made without written appro Standards Branch. All word Zoning By-Law 2018-043, contario Building Code, a approved documents must b times. The building permiposted on site at all times.  Discipline Reviewer Building Code H. Authler Sewage System	illimbury Branch BCIN #16487  ved for use with the ter changes may be ter changes may be an and the Building must comply with a amended, and the a manched. These kept on site at all t must be clearly	0 0 0 12 0 0 0 216	38 9 342 LOSS 0 0 0 244 0 0 0 833 0 0	0 0 0 489 0 0 0 113 0	0 0 6 0 0 20 0 414 0 0	176 9 1170 LOSS GA 0 0 0 122 14 0 0 0 541 73 0 0 0 1596 21 0 0 0 0 0 6031 8289 43
RET EXPOSEI  NET EXPOSEI  NET EXPOSED BSMT WALL A  EXPOSI  NO ATTIC EXPOSI  EXPOSED  BASEMENT/CRAWL HEA  SLAB ON GRADE HEA  SUBTOTAL H  SUB TOTAL H  LEVEL FACTOR / MULT  AIR CHANGE HEA  AIR CHANGE HEA  DUC	P. WALL CLG. HT. L AREA L LAREA L L LAREA L L LAREA L L LAREA L L L L L L L L L L L L L L L L	20.4 20.4 20.4 20.4 34.2 27.0 3.9 3.9 1.4 2.9	GAIN 15.1 40.7 24.1 40.7 99.9 3.7 0.5 0.5 0.6 1.2	0 32 0 0 198 0 0	23 10 230 LOSS 0 0 651 0 0 0 764 0 0 0 0 1415	0 0 770 0 0 103 0 0 0				0 0 60 0 600 0 0 10	66 10 660 LOSS 0 0 1221 0 2315 0 0 29 0 0 3566	0 0 2443 0 0 313 0 0 12 0	0 0 0 20 340 0 0	36 10 360 LOSS 0 0 0 0 0 541 1312 0 0 0 0 1853	0 0 0 0 73 177 0 0 0				0 0 8 0 0 82 0 0 0	9 10 90 LOSS 0 0 163 0 0 0 316 0 0 0 479	GAIN 0 0 193 0 0 0 43 0 0 0 0 235	16 0 0 30 354 0 0	400 LOSS 0 326 0 0 0 8111 1366 0 0 0 2503 0.42	GAIN 0 651 0 0 0 110 185 0 0 0 0	These plans have been review corrections as noted. No of made without written appro Standards Branch. All word Zoning By-Law 2018-043, a Ontario Building Code, a approved documents must b times. The building permiposted on site at all times.  Discipline Reviewer Building Code H. Authier	illimbury Branch BCIN #16487  ved for use with the ter changes may be ter changes may be an and the Building must comply with a amended, and the a manched. These kept on site at all t must be clearly	0 0 0 12 0 0 0 216	38 9 342 LOSS 0 0 0 244 0 0 0 833 0 0	0 0 0 489 0 0 0 113 0	0 0 6 0 0 20 0 414 0 0	176 9 1170 LOSS GA 0 0 0 122 14 0 0 0 541 7: 0 0 0 1596 21 0 0 0 6031 8289 43 0.74 6916
RET EXPOSEI  NET EXPOSEI  NET EXPOSEI  NET EXPOSED  NO ATTIC EXPOSI  EXPOSED  BASEMENT/CRAWL HEA  SUB TOTAL H  SUB TOTAL H  LEVEL FACTOR / MULT  AIR CHANGE HEA  AIR CHANGE HEA  DUC  DUC	P. WALL CLG. HT.  L AREA L LAREA L L LAREA L L LAREA L L LAREA L L L L L L L L L L L L L L L L	.OSS 20.4 20.4 20.4 20.4 34.2 27.0 3.9 1.4 2.9 2.7	GAIN 15.1 40.7 24.1 40.7 99.9 3.7 0.5 0.5 0.6 1.2	0 32 0 0 0 198 0 0 0	23 10 230 0 0 651 0 0 764 0 0 0 0 1415	0 0 770 0 0 103 0 0 0 0				0 0 60 0 600 0 0 10 0	666 10 660 LOSS 0 0 1221 0 0 2315 0 0 3566	0 0 2443 0 0 313 0 0 12 0	0 0 0 20 340 0 0	36 10 360 LOSS 0 0 0 0 0 541 1312 0 0 0 0 1853	0 0 0 0 73 177 0 0 0				0 0 8 0 0 82 0 0 0	9 10 90 LOSS 0 0 163 0 0 0 316 0 0 0 0 0 479	GAIN 0 0 193 0 0 0 43 0 0 0 0 235	16 0 0 30 354 0 0	40 10 400 LOSS 0 326 0 0 0 811 1366 0 0 0 0 2503	GAIN 0 651 0 0 0 110 185 0 0 0 0	These plans have been revier corrections as noted. No ot made without written appro Standards Branch. All word Zoning By-Law 2018-043, contario Building Code, a approved documents must b times. The building permiposted on site at all times.  Discipline Reviewer Building Code H. Authler Sewage System	illimbury Branch BCIN #16487  ved for use with the ter changes may be ter changes may be an and the Building must comply with a amended, and the a manched. These kept on site at all t must be clearly	0 0 0 12 0 0 0 216	38 9 342 LOSS 0 0 0 244 0 0 0 833 0 0	0 0 0 489 0 0 0 113 0	0 0 6 0 0 20 0 414 0 0	176 9  1170  LOSS GA 0 0 0 122 14 0 0 0 541 7: 0 0 0 6031  8289 43 0.74 6916
RET EXPOSEI NET EXPOSEI NET EXPOSED NET EXPOSED NO ATTIC EXPOSED BASEMENT/CRAWL HEA SUBTOTAL H SUB TOTAL H LEVEL FACTOR / MULT AIR CHANGE HEA AIR CHANGE HEA DUC DUC HEAT GAIN P	P. WALL CLG. HT. F. L. AREA L LAZING NORTH EAST SOUTH WEST SKYLT. DOORS D WALL ABOVE GR ED CLG FLOORS T LOSS IT LOSS IT LOSS IT LOSS IT LOSS IT GAIN T LOSS IT GOS IT GOS IT LOSS IT GOS IT LOSS IT GOS  20.4 20.4 20.4 20.4 34.2 27.0 3.9 3.9 1.4 2.9	GAIN 15.1 40.7 24.1 40.7 99.9 3.7 0.5 0.5 0.6 1.2	0 32 0 0 198 0 0	23 10 230 0 0 651 0 0 764 0 0 0 0 1415	0 0 770 0 0 103 0 0 0 0				0 0 60 0 600 0 0 10	666 10 660 LOSS 0 0 1221 0 0 2315 0 0 3566	0 0 0 2443 0 0 313 0 0 12 0	0 0 0 20 340 0 0	36 10 360 LOSS 0 0 0 0 0 541 1312 0 0 0 0 1853	0 0 0 0 0 73 177 0 0 0 0 0				0 0 8 0 0 82 0 0 0	9 10 90 LOSS 0 0 163 0 0 0 316 0 0 0 0 0 479	GAIN 0 0 193 0 0 0 43 0 0 0 0	16 0 0 30 354 0 0	40 10 400 LOSS 0 326 0 0 0 811 1366 0 0 0 0 2503	GAIN 0 651 0 0 110 185 0 0 0	These plans have been revier corrections as noted. No ot made without written appro Standards Branch. All word Zoning By-Law 2018-043, contario Building Code, a approved documents must b times. The building permiposted on site at all times.  Discipline Reviewer Building Code H. Authler Sewage System	illimbury Branch BCIN #16487  ved for use with the ter changes may be ter changes may be an and the Building must comply with a amended, and the a manched. These kept on site at all t must be clearly	0 0 0 12 0 0 0 216	38 9 342 LOSS 0 0 0 244 0 0 0 833 0 0	0 0 0 489 0 0 0 113 0	0 0 6 0 0 20 0 414 0 0	176 9  1170  LOSS GA 0 0 0 122 14 0 0 0 541 7: 0 0 0 6031  8289 43 0.74 6916	
RET EXPOSEI  NET EXPOSEI  NET EXPOSED BSMT WALL A  EXPOSED  NO ATTIC EXPOSI  EXPOSED  BASEMENTI/CRAWL HEA  SUBTOTAL H  SUB TOTAL H  SUB TOTAL H  LEVEL FACTOR / MULT  AIR CHANGE HEAT  AIR CHANGE HEAT  DUC  HEAT GAIN P  HEAT GAIN APPLIANCES	P. WALL CLG. HT. F. L. AREA L LAZING NORTH EAST SOUTH WEST SOUTH WEST SKYLT. DOORS D WALL ABOVE GR EED CLG EED CLG FLOOR IT LOSS IT LOSS IT LOSS IT LOSS IT GAIN TIPLIER IT LOSS CT GAIN T LOSS CT GAIN T LOSS CT GAIN T COSS CT GAIN T	20.4 20.4 20.4 20.4 34.2 27.0 3.9 1.4 2.9 2.7	GAIN 15.1 40.7 24.1 40.7 99.9 3.7 0.5 0.5 0.6 1.2	0 32 0 0 0 198 0 0 0	23 10 230 LOSS 0 0 651 0 0 0 0 0 1415 0 0.42 598	0 0 770 0 0 103 0 0 0 0				0 0 60 0 600 0 0 10 0	666 10 660 LOSS 0 0 1221 0 0 2315 0 0 3566	0 0 0 2443 0 0 313 0 0 12 0	0 0 0 0 20 340 0 0 0	36 10 360 LOSS 0 0 0 0 0 541 1312 0 0 0 0 1853	0 0 0 0 0 73 177 0 0 0 0				0 0 8 0 0 0 82 0 0 0 0	9 10 90 LOSS 0 0 163 0 0 0 316 0 0 0 0 0 479	GAIN 0 0 193 0 0 43 0 0 0 235 13 0	16 0 0 30 354 0 0 0	40 10 400 LOSS 0 326 0 0 0 811 1366 0 0 0 0 2503	GAIN 0 0 651 0 0 0 1110 1185 0 0 0 0 946	These plans have been revier corrections as noted. No ot made without written appro Standards Branch. All word Zoning By-Law 2018-043, contario Building Code, a approved documents must b times. The building permiposted on site at all times.  Discipline Reviewer Building Code H. Authler Sewage System	illimbury Branch BCIN #16487  ved for use with the ter changes may be ter changes may be an and the Building must comply with a amended, and the a manched. These kept on site at all t must be clearly	0 0 0 12 0 0 0 216 0 0	38 9 342 LOSS 0 0 0 244 0 0 0 833 0 0	0 0 0 489 0 0 0 1113 0 0	0 0 6 0 0 20 0 414 0 0	176 9 1170 LOSS GA 0 0 0 122 14 0 0 0 541 73 0 0 0 1596 21 0 0 0 6031 8289 43 0.74 6916
RET EXPOSEI  NET EXPOSEI  NET EXPOSED  NET EXPOSED BSMT WALL A  EXPOSED  BASEMENT/CRAWL HEA  SLAB ON GRADE HEA  SUBTOTAL H  SUB TOTAL H  LEVEL FACTOR / MULT  AIR CHANGE HEA  AIR CHANGE HEA  AIR CHANGE HEA  TOTAL HILDOS	P. WALL CLG. HT.  L AREA L LAREA L LAR	20.4 20.4 20.4 20.4 34.2 27.0 3.9 1.4 2.9 2.7	GAIN 15.1 40.7 24.1 40.7 99.9 3.7 0.5 0.5 0.6 1.2	0 32 0 0 0 198 0 0 0	23 10 230 0 0 651 0 0 764 0 0 0 0 1415	0 0 770 0 0 103 0 0 0 0				0 0 60 0 600 0 0 10 0	666 10 660 LOSS 0 0 1221 0 0 2315 0 0 3566	0 0 0 2443 0 0 313 0 0 12 0	0 0 0 0 20 340 0 0 0	36 10 360 LOSS 0 0 0 0 0 541 1312 0 0 0 0 1853	0 0 0 0 0 73 177 0 0 0 0 0				0 0 8 0 0 0 82 0 0 0 0	9 10 90 LOSS 0 0 163 0 0 0 316 0 0 0 0 0 479	GAIN 0 0 0 193 0 0 0 43 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	16 0 0 30 354 0 0 0	40 10 400 LOSS 0 326 0 0 0 811 1366 0 0 0 0 2503	GAIN 0 651 0 0 1110 1185 0 0 0 0 0 946 54 0 0 0	These plans have been revier corrections as noted. No ot made without written appro Standards Branch. All word Zoning By-Law 2018-043, contario Building Code, a approved documents must b times. The building permiposted on site at all times.  Discipline Reviewer Building Code H. Authler Sewage System	illimbury Branch BCIN #16487  ved for use with the ter changes may be ter changes may be an and the Building must comply with a amended, and the a manched. These kept on site at all t must be clearly	0 0 0 12 0 0 0 216 0 0	38 9 342 LOSS 0 0 0 244 0 0 0 833 0 0	0 0 0 489 0 0 0 1113 0 0 0	0 0 6 0 0 20 0 414 0 0	176 9 1170 LOSS GA 0 0 0 122 14 0 0 0 541 7: 0 0 0 1596 21 0 0 0 6031 8289 43 0.74 6916 5:
RET EXPOSEI  NET EXPOSEI  NET EXPOSED BEMT WALL A  EXPOSE  NO ATTIC EXPOSE  EXPOSED  BASEMENT/CRAWL HEA  SLAB ON GRADE HEA'  AIR CHANGE HEA'	P. WALL CLG. HT.  L AREA L LAREA L LAR	20.4 20.4 20.4 20.4 34.2 27.0 3.9 1.4 2.9 2.7	GAIN 15.1 40.7 24.1 40.7 99.9 3.7 0.5 0.5 0.6 1.2	0 32 0 0 0 198 0 0 0	23 10 230 LOSS 0 0 651 0 0 0 0 0 1415 0 0.42 598	0 0 770 0 0 103 0 0 0 0				0 0 60 0 600 0 0 10 0	66 10 660 LOSS 0 0 0 1221 0 0 2315 0 0 0 2315 0 0 0 0 2315 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 2443 0 0 313 0 0 12 0	0 0 0 0 20 340 0 0 0	36 10 360 LOSS 0 0 0 0 0 541 1312 0 0 0 0 0 0 1853	0 0 0 0 0 73 177 0 0 0 0 0				0 0 8 0 0 0 82 0 0 0 0	9 10 90 LOSS 0 0 163 0 0 0 0 0 0 479 0.42 203	GAIN 0 0 0 193 0 0 0 43 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	16 0 0 30 354 0 0 0	40 10 400 LOSS 0 326 0 0 0 811 1366 0 0 0 0 2503 0.42 1058	GAIN 0 651 0 0 1110 1185 0 0 0 0 0 946 54 0 0 0	These plans have been revier corrections as noted. No ot made without written appro Standards Branch. All word Zoning By-Law 2018-043, contario Building Code, a approved documents must b times. The building permiposted on site at all times.  Discipline Reviewer Building Code H. Authler Sewage System	illimbury Branch BCIN #16487  ved for use with the ter changes may be ter changes may be an and the Building must comply with a amended, and the a manched. These kept on site at all t must be clearly	0 0 0 12 0 0 0 216 0 0	38 9  342 LOSS 0 0 0 244 0 0 8333 0 0 1077	0 0 0 489 0 0 0 1113 0 0 0	0 0 6 0 0 20 0 414 0 0	176 9 1170 LOSS GA 0 0 0 122 14 0 0 0 541 73 0 0 0 1596 21 0 0 0 6031 8289 43 0.74 6916 55

TOTAL HEAT GAIN BTU/H:

28938

TONS: 2.41

LOSS DUE TO VENTILATION LOAD BTU/H: 1747

STRUCTURAL HEAT LOSS: 44811

TOTAL COMBINED HEAT LOSS BTU/H: 46558

Metal Offule.



		TRINAR GREENI						TYPE:	For Lot				DATE:	Feb-19			GFA:	2858	LO#	81520				
HEATING CFM TOTAL HEAT LOSS AIR FLOW RATE CFM	44,811 25.24		TOTAL H	LING CFM EAT GAIN RATE CFM	28,702 39.41		a	furr a/c coil available	pressure nace filter pressure pressure s/a & r/a	0.6 0.05 0.2 0.35						C		603BN SPEEI LOV	) V	N	OUTPUT	AFUE = (BTU/H) = (BTU/H) =	60,000 <b>57,600</b>	
RUN COUNT S/A R/A All S/A diffusers 4"x10" unle	4th 0 0	3rd 0 0	2nd 11 4	1st 8 2	Bas 4 1		max	s/a dif pi	essure s/a	0.18 0.02		grille pre	pressure	0.17 0.02					И -	-			6 " E.S.P.	-
All S/A runs 5"Ø unless note				ul.			min adj	usted pre	ssure s/a	0.16		usted pre	ssure r/a	0.15				HIGH	1 1131		EMPERAI	URE RISE	47	_ °F
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	1 MBR 0.98 25 1.93 76 0.17 31 130 161 0.11 5 184 558 3X10	2 ENS 1.41 36 1.44 57 0.17 37 140 177 0.1 5 264 419 3X10	3 WIC 0.73 18 0.19 8 0.17 45 160 205 0.08 4 207 92 3X10	4 BED-2 2.39 60 2.36 93 0.16 54 160 214 0.08 6 306 474 4X10	5 BED-3 1.15 29 1.65 65 0.17 65 190 255 0.07 6 148 331 4X10	6 BED-4 1.35 34 2.08 82 0.16 37 130 167 0.1 6 173 418 4X10	7 BATH 0.91 23 0.41 16 0.17 38 190 228 0.08 4 264 184 3X10	8 BED-2 2.39 60 2.36 93 0.16 51 150 201 0.08 6 306 474 4X10	9 BED-3 1.15 29 1.65 65 0.17 51 150 201 0.09 6 148 331 4X10	10 MBR 0.98 25 1.93 76 0.17 40 150 190 0.09 5 184 558 3X10	11 ENS-2 1.11 28 0.29 11 0.17 41 150 191 0.09 4 321 126 3X10	12 DN/LV 1.01 25 1.10 43 0.17 28 190 218 0.08 5 184 316 3X10	13 DN/LV 1.01 25 1.10 43 0.17 50 150 200 0.09 5 184 316 3X10	14 KT/FM 1.69 43 1.60 63 0.17 34 160 194 0.09 5 316 463 3X10	15 KT/FM 1.69 43 1.60 63 0.17 35 160 195 0.09 5 316 463 3X10	16 KT/FM 1.69 43 1.60 63 0.17 32 150 182 0.09 5 316 463 3X10	17 LAUN 2.64 67 1.35 53 0.17 25 170 195 0.09 5 492 389 3X10	18 W/R 0.68 17 0.32 13 0.17 40 190 230 0.07 4 195 149 3X10	19 FOY 3.56 90 1.30 51 0.16 50 150 200 0.08 6 459 260 4X10		21 BAS 4.07 103 0.61 24 0.16 27 200 227 0.07 6 525 122 4X10	22 BAS 4.07 103 0.61 24 0.16 19 120 139 0.12 6 525 122 4X10	23 BAS 4.07 103 0.61 24 0.16 26 190 216 0.08 6 525 122 4X10	24 BAS 4.07 103 0.61 24 0.16 42 190 232 0.07 6 525 122 4X10
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	A	В	В	D	C	В	D	D	C	A	В	D	D	A	A	A	В	e n S Z C a a ti	C These plans have corrections as a made without visuadards Bran Discipline Building Code Sewage System Zoning By-Law Discipline Building Code Sewage System	we been revi noted. No o written appr ch. All wo v 2018-043, ing Code, ments must tilding peri	ewed for us other chang- coval of the rk must co- as amende as amende be kept on nit must l	se with the es may be e Building mply with d, and the ed. These site at all	D	С
TRUNK A TRUNK A TRUNK B TRUNK C TRUNK C TRUNK C TRUNK C TRUNK C	TRUNK CFM 385 568 268 564 0	STATIC PRESS. 0.07 0.07 0.07 0.07 0.00 0.00	ROUND DUCT 10.1 11.7 8.9 11.7 0	RECT DUCT 12 16 10 16 0	x x x x x	8 8 8 8 8	VELOCITY (fl/min) 578 639 482 635 0		Trunk g Trunk h Trunk i Trunk j Trunk k Trunk k	TRUNK CFM 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	RECT DUCT 0 0 0 0 0	x x x x x	8 8 8 8 8	VELOCITY (ft/min) 0 0 0 0 0	TRUNK O TRUNK P TRUNK Q TRUNK R TRUNK S TRUNK S TRUNK T TRUNK U TRUNK V	TRUNK CFM 0 0 0 0 0 0 0 0 0	STATIC PRESS. 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0	ROUND DUCT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RECT DUCT 0 0 0 0 0 0	x x x x x x x	8 8 8 8 8 8	VELOCITY (ff/min) 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 38 285 323 0.05 7.5 8 X	2 0 175 0.15 34 175 209 0.07 7.5 8 X	3 0 85 0.15 41 215 256 0.06 6 8 X	4 0 75 0.15 43 255 298 0.05 6 8 X	5 0 275 0.15 28 300 328 0.05 9.7 8 X 30	6 0 185 0.15 16 135 151 0.10 7 8 X 14	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	0 0 0.15 1 0 1 14.80 0 0 X	201 0.15 15 180 195 0.08 7.7 8 X 24	TRUNK W TRUNK X TRUNK Y TRUNK Z DROP	0 946 0 0 1131	0.05 0.05 0.05 0.05 0.05 0.05	0 15.5 0 0 16.5	0 28 0 0 24	x x x x	8 8 8 8 10	0 608 0 0 679



TYPE: SITE NAME: BRENTWOOD 4

TRINAR HALL HOMES

LO# 81520

## RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

COMBUSTION APPLIANCES 9.32.3.1(	(1) SUPPLEMENTAL VENTILATION CAPACITY 9.32.3.5.	
a) Direct vent (sealed combustion) only	Total Ventilation Capacity169.6 cfm	
b) Positive venting induced draft (except fireplaces)	Less Principal Ventil. Capacity	
c) Natural draft, B-vent or induced draft gas fireplace	Required Supplemental Capacity 90.1 cfm	
d) Solid Fuel (including fireplaces)		
e) No Combustion Appliances	PRINCIPAL EXHAUST FAN CAPACITY	
	Model: VANEE 65H Location: BSMT	
HEATING SYSTEM	79.5 cfm 3.0 sones  HVI Approved	
✓ Forced Air Non Forced Air	PRINCIPAL EXHAUST HEAT LOSS CALCULATION  CFM ΔT *F FACTOR % LOSS	
Electric Space Heat	79.5 CFM X 81 F X 1.08 X 0.25	
	SUPPLEMENTAL FANS PANASONIC	
HOUSE TYPE 9.32.1(2	Location         Model         cfm         HVI         Sones           (2)         ENS         FV-05-11VK1         50         ✓         0.3	
0.02.112	BATH FV-05-11VK1 50 \$\sqrt{0.3}\$	
I Type a) or b) appliance only, no solid fuel	ENS-2 FV-05-11VK1 50 ✓ 0.3	
	W/R FV-05-11VK1 50 ✓ 0.3	
II Type I except with solid fuel (including fireplaces)	UEAT DECOUEDVARIANT AND	
III Any Type c) appliance	HEAT RECOVERY VENTILATOR 9.32.3.11.  Model: VANEE 65H	
	155 cfm high 64 cfm low	
IV Type I, or II with electric space heat	75 % Sensible Efficiency	
Other: Type I, II or IV no forced air	@ 32 deg F ( 0 deg C)	
	LOCATION OF INSTALLATION	
SYSTEM DESIGN OPTIONS O.N.H.W.F	P. Lot: Concession	
1 Exhaust only/Forced Air System	Township Plan:	
2 HRV with Ducting/Forced Air System	Address	
3 HRV Simplified/connected to forced air system		
4 HRV with Ducting/non forced air system	Roll # Building Permit #	
Part 6 Design	BUILDER: GREENPARK HOMES	
	Name:	
TOTAL VENTILATION CAPACITY 9.32.3.3(1	Address: East Gwil Builing Standards Brar	
Basement + Master Bedroom 2 @ 21.2 cfm 42.4 cfm	City:	
Other Bedrooms <u>3</u> @ 10.6 cfm <u>31.8</u> cfm	Telephone #: Fax #: These plans have been reviewed control of the	changes may
Kitchen & Bathrooms5 @ 10.6 cfm53 cfm	INSTALLING CONTRACTOR Standards Branch. All work m Zoning By-Law 2018-043, as as	ust comply wi mended, and t
Other Rooms 4 @ 10.6 cfm 42.4 cfm	Ontario Building Code, as a approved doments must be known times:  Name: times. The building permit r	ept on site at
Table 9.32.3.A. TOTAL 169.6 cfm	posted on site at all times.	
101/12 <u>1000</u> Gill	Address: Discipline Reviewer BC Building Code H. Authier 432	
	City: Sewage System Zoning	
PRINCIPAL VENTILATION CAPACITY REQUIRED 9.32.3.4.(1	7   -   -   -   -   -   -   -   -   -	
1 Bedroom 31.8 cfm		
2 Bedroom 47.7 cfm	DESIGNER CERTIFICATION I hereby certify that this ventilation system has been designed	
•	in accordance with the Ontario Building Code.	
<b>****</b>	Name: HVAC Designs Ltd.	
4 Bedroom 79.5 cfm	Signature: Michael Office .	
5 Bedroom 95.4 cfm	HRAI# 001820	
TOTAL 79.5 cfm	Date: February-19  E APPROPRIATE CATEGORY AS AN "OTHER DESIGNER" UNDER DIVISION C, 3.2.5 OF THE BUILDING CODE.	
INDIVIDUAL BCIN: 19669  Michael O'ROURKE  Michael O'ROURKE	CAPPROPRIATE CATEGORY AS AN OTHER DESIGNER UNDER DIVISION C, 3.2.5 OF THE BUILDING CODE.	



····	······································	·	CSA F28	0-12 Residential Heat	Loss and Heat Gain	Calculations		<del></del>	<del></del>		
			Form	ula Sheet (For Air Leak	age / Ventiliation C	alculation)					
LO#:	81520	Model: BRENTWOOD	0.4	Builder:	der: GREENPARK HOMES Date: 2/22/2019						
		Volume Calculation	n		Air Change & Delta T Data						
							TURAL AIR CHANG				
House Volume				•		0.247					
Level						SUMMER NA	ATURAL AIR CHAN	GE RATE	0.069		
Bsmt											
First	1266	10									
Second	1592	9				~	emperature Diff	·			
Third	0	9	0				Tin °C	Tout °C	ΔT °C	ΔT °F	
Fourth	0	9	0			Winter DTDh	22	-23	45	81	
		Total:	38,382.0 ft <sup>3</sup>			Summer DTDc	24	30	6	11	
		Total:	1086.9 m³								
	5.2.3	.1 Heat Loss due to Air	r Leakage			6.2.6	Sensible Gain due	to Air Leakage			
	$\mathit{HL}_{airb} =$	$LR_{airh} \times \frac{V_b}{3.6} \times D$	$TD_h \times 1.2$		Н	$G_{salb} = LR_{airc} \times$	$\times \frac{V_b}{3.6} \times DTD_c$	× 1.2			
0.247	x <u>301.90</u>	x <u>45 °C</u>	x <u>1.2</u>	= 4054 W	= 0.069	x <u>301.90</u>	x <u>6°C</u>	x1.2	=	152 W	
				= 13832 Btu/h					=	520 Btu/h	
	5.2.3.2 Hea	t Loss due to Mechani	ical Ventilation			6.2.7 Ser	nsible heat Gain d	lue to Ventilatio	n		
	$HL_{vairb} = 1$	$PVC \times DTD_h \times 1$	$.08 \times (1-E)$		$HL_v$	$p_{airb} = PVC \times D$	$TD_h \times 1.08 \times$	(1 - E)			
80 CFM	x <u>81°F</u>	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	
			5.2.3.3 Calculat	ion of Air Change Heat Lo	ss for Each Room (Floo	or Multiplier Section)					
	3.2.3.5 calculation of Air Change Freat 2039 for Each Room (1 foot Wanapiner Section)										

Level	Level Factor (LF)	HLairve Air Leakage + Ventilation Heat Loss (Btu/h)	Level Conductive Heat Loss: (HL <sub>clevel</sub> )	Air Leakage Heat Loss Multiplier (LF x HLairbv / HLlevel)
1	0.5		9,366	0.738
2	0.3		9,814	0.423
3	0.2	13,832	11,053	0.250
4	0		0	0.000
5	0		0	0.000

 $HL_{airr} = Level\ Factor \times HL_{airbv} \times \{(HL_{agcr} + HL_{bgcr}) \div (HL_{agclevel} + HL_{bgclevel})\}$ 

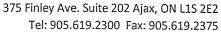


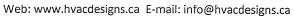
These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amended. These approved documents must be kept on site at all times. The building permit must be clearly posted on site at all times.

Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-24
Sewage System			
Zoning			

<sup>\*</sup>HLairbv = Air leakage heat loss + ventilation heat loss

<sup>\*</sup>For a balanced or supply only ventilation system HLairve = 0







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

MODEL:	BRENTWOOD 4			PUMPER OPERADA VIOLATO	
		10"	04500	BUILDER: GREENPARK HOMES	
SFQT:	2858	LO#	81520	SITE: TRINAR HALL HOMES	
DESIGN A	SSUMPTIONS				
HEATING			°F	COOLING	°F
OUTDOO	R DESIGN TEMP.		-9	OUTDOOR DESIGN TEMP.	86
INDOOR E	ESIGN TEMP.		72	INDOOR DESIGN TEMP. (MAX 75°F)	75
BUILDING	DATA				
ATTACHM	ENT:		DETACHED	# OF STORIES (+BASEMENT):	3
EDONT EA	CEC.		FACT	ACCUMATE (MAIN	
FRONT FA	CES:		EAST	ASSUMED (Y/N):	Υ
AIR CHAN	GES PER HOUR:		2.50	ASSUMED (Y/N):	Υ
			2.55	TOSOMES (1714).	•
AIR TIGHT	NESS CATEGORY:		TIGHT	ASSUMED (Y/N):	Υ
WIND EXP	OSURE:		SHELTERED	ASSUMED (Y/N):	Υ
HOUSEN	NILIBAT /C-3		20202		
HOUSE VC	DLUME (ft³):		38382.0	ASSUMED (Y/N):	Υ
INTERNAL	SHADING:	BLINDS	/CURTAINS	ASSUMED OCCUPANTS:	5
		DL11103	, contraines	ASSUMED OCCUPANTS.	3
INTERIOR	LIGHTING LOAD (Btu/l	n/ft²):	1.50	DC BRUSHLESS MOTOR (Y/N):	Υ
FOUNDAT	ION CONFIGURATION		BCIN_1	DEPTH BELOW GRADE:	6.0 ft
. =					
LENGTH:	30.0 ft	WIDTH:	58.0 ft	EXPOSED PERIMETER:	176.0 ft



2012 OBC - COMPLIANCE PACKAGE	These plans hav	e been revi	ewed for	use with the		
	corrections as n	oted. No o	ther char	iges may be	Complian	e Package
Component	Standards Branch. All work r Zoning By-Law 2018-043, as				ENER	GYSTAR
	Ontario Buildii approved docun	ng Code,	Nominal	Min. Eff.		
Ceiling with Attic Space Minimum RSI (R)-Value	times. The bu	ilding pern			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	2021-02-24	31	29.80
Walls Above Grade Minimum RSI (R)-Value	Zoning Zoning				R22+R5	21.10
Basement Walls Minimum RSI (R)-Value					20	21.12
Below Grade Slab Entire surface > 600 mm below grade I	Minimum RSI (R	)-Valu	е		_	_
Edge of Below Grade Slab ≤ 600 mm Below Grade Minim	•				10	10
Heated Slab or Slab ≤ 600 mm below grade Minimum RS	I (R)-Value				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 Stati	ion Description		
Province:	Ontario			
Region:	Bradford			
	Site De	scription		
Soil Conductivity:	Normal co	nductivity: dry sand, loam, clay		
Water Table:	Normal (7	-10 m, 23-33 ft)		
	Foundation	Dimensions		
Floor Length (m):	9.1			
Floor Width (m):	17.7			
Exposed Perimeter (m):	0.0			
Wall Height (m):	2.7		3	
Depth Below Grade (m):	1.83	Insulation Configur	ation	
Window Area (m²):	1.7			
Door Area (m²):	1.9			
	Radia	nt Slab		
Heated Fraction of the Slab:	0			
Fluid Temperature (°C):	33		4	
	Design	Months	East Gwil	-
Heating Month	1		These plans have been reviewed corrections as noted. No other	changes may b
	Foundat	ion Loads	made without written approval Standards Branch. All work n Zoning By-Law 2018-043, as a Ontario Building Code, as	nust comply wit amended, and th
Heating Load (Watts):		1767	approved documents must be k times. The building permit posted on site at all times.	cept on site at al must be clearl
TYPE: BRENTWOOD 4			D 11 0 1	CIN Date 236 2021-02-24

LO# 81520



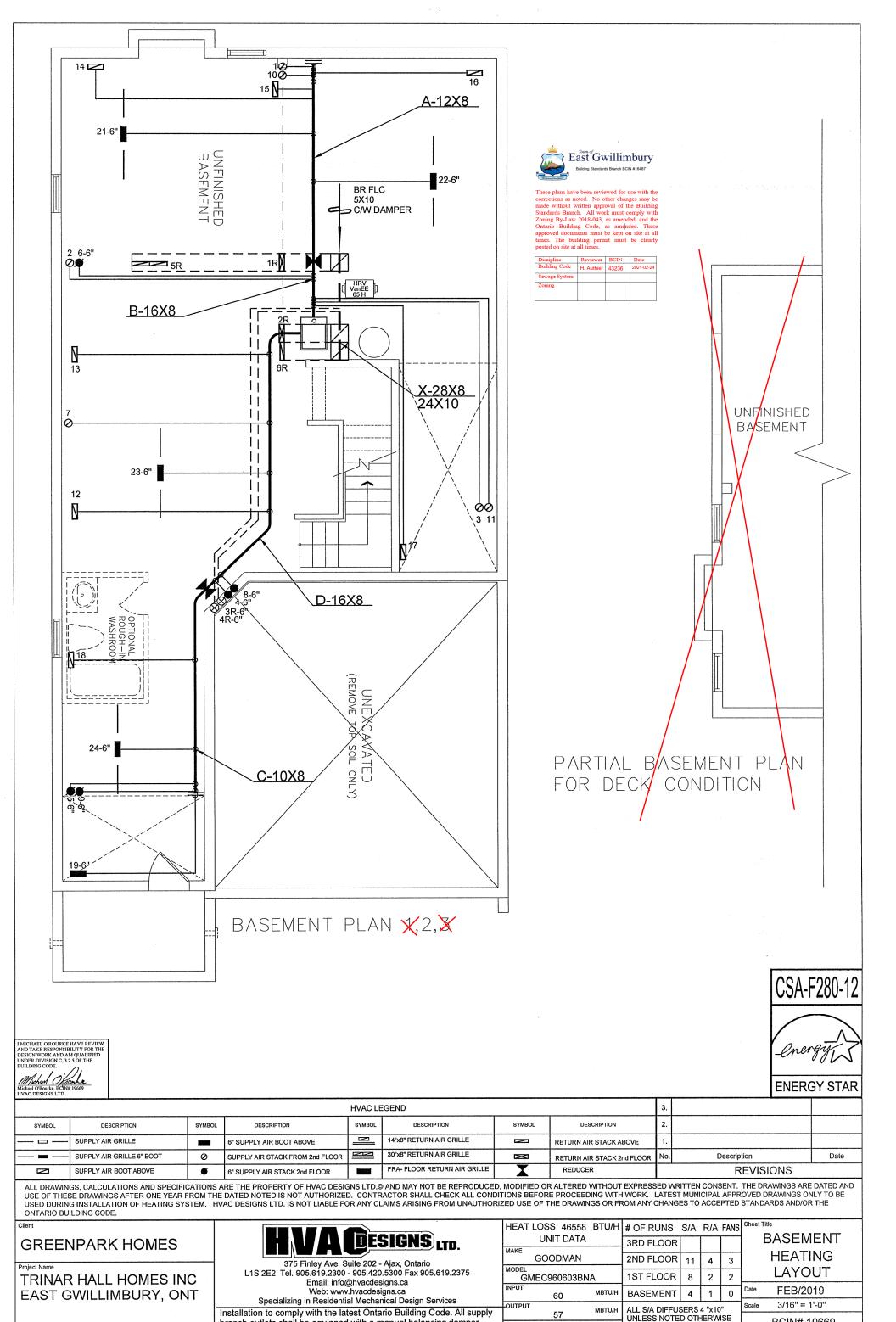
## **Air Infiltration Residential Load Calculator**

Supplemental tool for CAN/CSA-F280

Weather Statio	n Des	cript	ion			
Province:	Ontai	io				
Region:	Bradf	ord				
Weather Station Location:	Open	flat te	rrain, g	grass		
Anemometer height (m):	10					
Local Sh	ieldin	g				
Building Site:	Subu	ban, fo	orest			
Walls:	Heavy	/				
Flue:	Heavy	/				
Highest Ceiling Height (m):	7.62					
Building Con	ıfigura	ation				
Type:	Detac	hed				
Number of Stories:	Two					
Foundation:	Full					
House Volume (m³):	1086.	9	, ;			
Air Leakage/	Ventil	atior	1			
Air Tightness Type:	Energ	y Star	Detacl	ned (2.5	ACH)	
Custom BDT Data:	ELA @	9 10 Pa	1.		1014.6 cm <sup>2</sup>	
	2.50				ACH @ 50 Pa	
Mechanical Ventilation (L/s):	To	tal Sup	ply		Total Exhaust	
		37.5			37.5	
Flue S	Size					
Flue #:	#1	#2	#3	#4		
Diameter (mm):	0	0	0	0	Town of	
Natural Infiltr	ation	Rate	s		East Gwilliml  Building Standards Branch BCIN #	bury #16487
Heating Air Leakage Rate (ACH/H):		0	.24	7	These plans have been reviewed for us corrections as noted. No other change	
Cooling Air Leakage Rate (ACH/H):		0	.06	9	made without written approval of the Standards Branch. All work must cor Zoning By-Law 2018-043, as amende Ontario Building Code, as amehde	Building mply with d, and the
TVDE, DDENTINOOD 4				-	approved documents must be kept on times. The building permit must b posted on site at all times.	site at all

**TYPE:** BRENTWOOD 4 LO# 81520

Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-24
Sewage System			
Zoning			



branch outlets shall be equipped with a manual balancing damper.

adequately insulated and be gas-proofed.

Ductwork which passes through the garage or unheated spaces shall b

For Lot 21

**BRENTWOOD 4** 

2858 sqft

COOLING

FAN SPEED

2.5

1131

BCIN# 19669

\_O#

81520

ON LAYOUT. ALL S/A RUNS 5"@

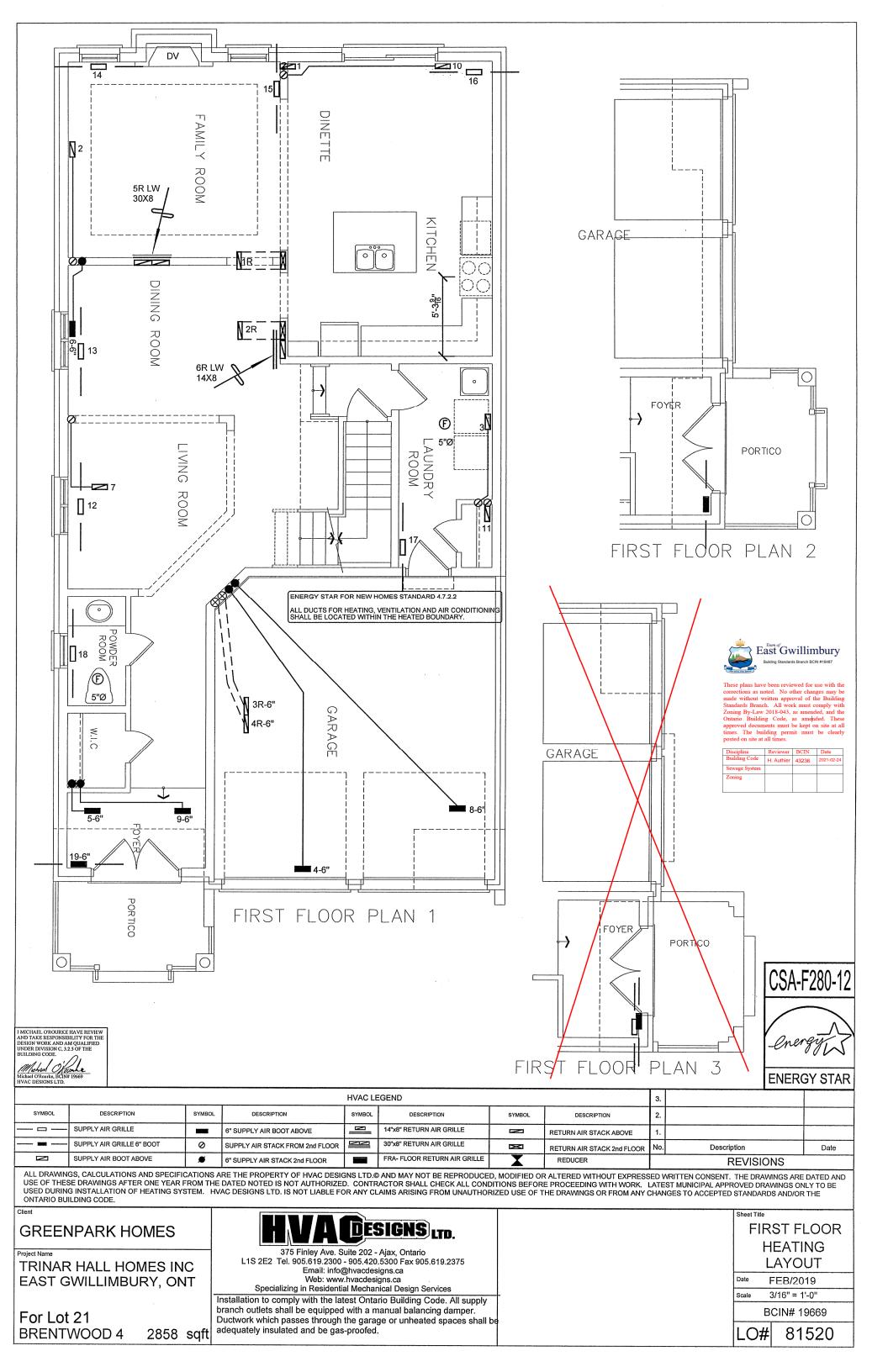
UNLESS NOTED OTHERWISE

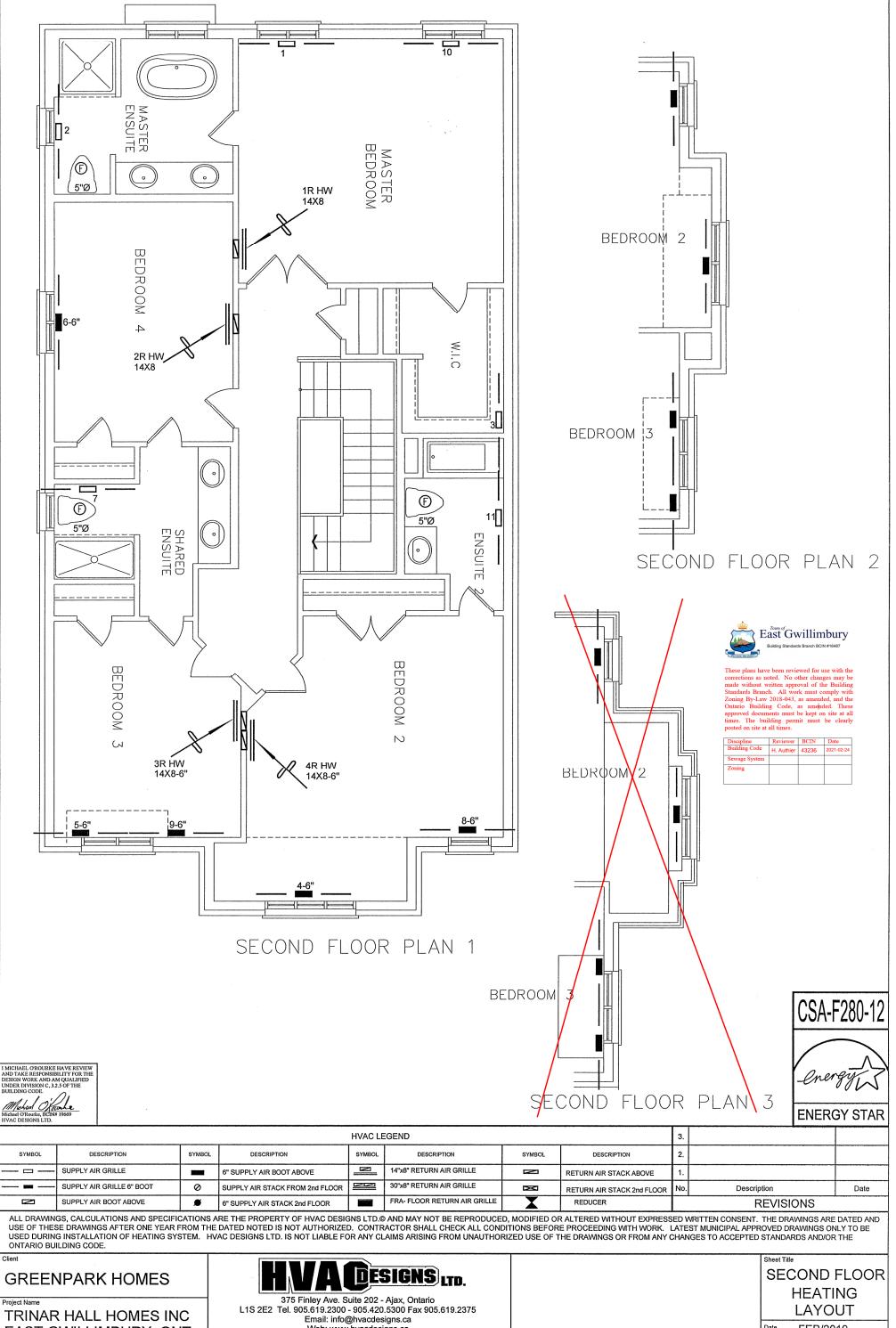
ON LAYOUT. UNDERCUT

DOORS 1" min. FOR R/A

TONS

cfm @ 0.6" w.c





EAST GWILLIMBURY, ONT

For Lot 21 **BRENTWOOD 4** 

2858 sqft

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.

Date FEB/2019 3/16" = 1'-0" BCIN# 19669

81520