

Substitution Subs	SITE NAME:	TRINA	R HALL	HOME	S					LOT 3								1	DATE:					WINTE	R NAT	URAL A	AIR CH	ANGE RATE 0.223	HI	EAT LOS	SS AT °	°F. 81	1		CSA-F2	80-12
ESP. WALL CLOS. M. GEORGE GENERAL AREA (LOSS) GE		GREEN	IPARK I	HOMES	3				TYPE	: GLEN	WAY 12	!A			GFA:	2969			LO#	88748				UMME	R NAT	URAL A	AIR CH	ANGE RATE 0.062	Н	IEAT GA	N ΔT °	°F. 11	1		NERGY	STAR
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TOTAL HT LOSS BTU/H 2840 5850 4673 1130 2543 1312 16179	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BAMT WALL ABOVE GR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT GAIN DUCT LOSS DUCT GAIN	20.4 20.4 20.4 20.4 20.4 20.4 34.2 27.0 3.9 1.4 2.9 2.7	99.9 3.7 0.5 0.6 1.2	0 60 0 0 0 240 0 220 0	30 10 300 LOSS 0 0 1221 0 0 926 0 0 59 0	GAIN 0 1444 0 0 125 0 24 0				0 0 24 86 0 0 590 0 0 10 0	70 10 700 LOSS 0 0 488 1750 0 0 2276 0 0 0 2276 0 0 4544	GAIN 0 0 0 578 3502 0 0 308 0 0 12 0 4399 169 0	64 41 0 0 0 327 0 168 0 0	24 18 432 LOSS 0 1302 834 0 0 0 1262 0 2311 0 0 0 3629	GAIN 0 22606 987 0 0 0 1770 0 94 4 0 0 3857	0 0 0 0 0 216 0 0 15	18 12 216 LOSS 0 0 0 0 0 833 0 0 44 0 0 0 877	GAIN 0 0 0 0 0 0 113 0 0 18 0 0 5 0			2000	0 0 0 46 134 0 73 0	18 10 180 LOSS 0 0 0 0 1244 517 0 0 0 1975 0.29 568	GAIN 0 0 0 0 0 0 168 70 0 0 87 0 0 325 13 0	0 0 0 20 124 0 0 0	12 12 144 LOSS 0 0 0 0 0 541 478 0 0 0 0 0 0 0	GAIN 0 0 0 0 0 73 65 0 0 0 0	corrections a made withou Standards Bi Zoning By-I Ontario Bui approved do times. The posted on sit Discipline Building Cot Sewage Syste	Building nave beer s noted. t written anch. A aw 2018 lding Co comments : building e at all tin Reviec H. A	Standards B n reviewe No other approve 1-043, as ode, as must be permit nes.	illim Branch BCIN red for user changeral of the must constant amende amende amende must be better the must be better the must be better the best better the best better the best best best best best best best bes	n#16487 use with ges may he Build omply we led, and ded. Then site at be clear	the 7 be ding with the nese t all arrly	4 4 0 20 0 485 0 0	194 9 1261 LOSS 0 81 81 0 541 0 1869 0 0 0 6696	0 163 96 163 0 73 0 253 0 0 0
	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED SMT WALL ABOVE GR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT LOSS SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS AIR CHANGE HEAT GAIN DUCT LOSS DUCT GAIN HEAT GAIN PEOPLE	20.4 20.4 20.4 20.4 20.4 20.4 34.2 27.0 3.9 1.4 2.9 2.7	99.9 3.7 0.5 0.6 1.2	0 60 0 0 0 240 0 220 0	30 10 300 LOSS 0 0 1221 0 0 926 0 0 59 0	GAIN 0 0 1444 0 0 0 125 0 0 24 0 1593				0 0 24 86 0 0 590 0 0 10 0	70 10 700 LOSS 0 0 488 1750 0 0 2276 0 0 0 2276 0 0 4544	GAIN 0 0 0 578 3502 0 0 0 12 0 4399 169 0 0	64 41 0 0 0 327 0 168 0 0	24 18 432 LOSS 0 1302 834 0 0 0 1262 0 2311 0 0 0 3629	GAIN 0 22606 987 0 0 0 1770 0 94 0 0 3857	0 0 0 0 0 216 0 0 15	18 12 216 LOSS 0 0 0 0 0 833 0 0 44 0 0 0 877	GAIN 0 0 0 0 0 113 0 0 18 0 0 5 0 0 0 0			2000	0 0 0 46 134 0 73 0	18 10 180 LOSS 0 0 0 0 1244 517 0 0 0 1975 0.29 568	GAIN 0 0 0 0 168 70 0 0 87 0	0 0 0 20 124 0 0 0	12 12 144 LOSS 0 0 0 0 0 541 478 0 0 0 0 0 0 0	GAIN 0 0 0 0 73 65 0 0 0	corrections a made withou Standards Bi Zoning By-I Ontario Bui approved do times. The posted on sit Discipline Building Cot Sewage Syste	Building nave beer s noted. t written anch. A aw 2018 lding Co comments : building e at all tin Reviec H. A	Standards B n reviewe No other approve 1-043, as ode, as must be permit nes.	illim Branch BCIN red for user changeral of the must constant amende amende amende must be better the must be better the must be better the best better the best better the best best best best best best best bes	n#16487 use with ges may he Build omply we led, and ded. Then site at be clear	the 7 be ding with the nese t all arrly	4 4 0 20 0 485 0 0	194 9 1261 LOSS 0 81 81 0 541 0 1869 0 0 0 6696	0 163 96 163 0 73 0 253 0 0 0
	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED CLG EXPOSED CLG EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS DUCT GAIN HEAT GAIN PEOPLE HEAT GAIN APPLIANCES/LIGHTS	20.4 20.4 20.4 20.4 20.4 20.4 34.2 27.0 3.9 1.4 2.9 2.7	99.9 3.7 0.5 0.6 1.2	0 60 0 0 0 240 0 220 0	30 10 300 LOSS 0 0 1221 0 0 926 0 0 59 0	GAIN 0 0 1444 0 0 0 125 0 0 24 0 1593				0 0 24 86 0 0 590 0 0 10 0	70 10 700 LOSS 0 0 488 1750 0 0 2276 0 0 0 4544 0.29 1306 0	GAIN 0 0 0 578 3502 0 0 0 12 0 4399 169 0 0	64 41 0 0 0 327 0 168 0 0	24 18 432 LOSS 0 1302 834 0 0 1262 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 22606 987 0 0 0 1770 0 94 0 0 3857	0 0 0 0 0 216 0 0 15	18 12 216 LOSS 0 0 0 0 0 0 833 0 0 44 0 0 0 877 0.29 252	GAIN 0 0 0 0 0 113 0 0 18 0 0 5 0 0 0 0			2000	0 0 0 46 134 0 73 0	18 10 180 LOSS 0 0 0 0 1244 517 0 0 215 0 0 1975 568 0	GAIN 0 0 0 0 168 70 0 0 87 0	0 0 0 20 124 0 0 0	12 12 144 LOSS 0 0 0 0 0 541 478 0 0 0 0 0 0 0	GAIN 0 0 0 0 73 65 0 0 0	corrections a made withou Standards Bi Zoning By-I Ontario Bui approved do times. The posted on sit Discipline Building Cot Sewage Syste	Building nave beer s noted. t written anch. A aw 2018 lding Co comments : building e at all tin Reviec H. A	Standards B n reviewe No other approve 1-043, as ode, as must be permit nes.	illim Branch BCIN red for user changeral of the must constant amende amende amende must be better the must be better the must be better the best better the best better the best best best best best best best bes	n#16487 use with ges may he Build omply we led, and ded. Then site at be clear	the 7 be ding with the nese t all arrly	4 4 0 20 0 485 0 0	194 9 1261 LOSS 0 81 81 0 541 0 1869 0 0 0 6696	0 163 96 163 0 73 0 253 0 0 0
TOTAL HT GAIN x 1.3 BTU/H 2977 6765 6033 1002 439 1012 1009	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED USE NO ATTIC EXPOSED CLG EXPOSED CLG EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SUBTOTAL HT LOSS SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS DUCT GAIN HEAT GAIN PEOPLE HEAT GAIN APPLIANCES/LIGHTS TOTAL HT LOSS BTU/H	20.4 20.4 20.4 20.4 20.4 20.4 34.2 27.0 3.9 1.4 2.9 2.7	99.9 3.7 0.5 0.6 1.2	0 60 0 0 0 240 0 220 0	30 10 300 LOSS 0 0 1221 0 0 0 926 0 0 0 0 2206 0.29 634	GAIN 0 0 1444 0 0 0 125 0 0 24 0 1593				0 0 24 86 0 0 590 0 0 10 0	70 10 700 LOSS 0 0 488 1750 0 0 2276 0 0 0 4544 0.29 1306 0	GAIN 0 0 0 578 3502 0 0 0 12 0 4399 169 0 0	64 41 0 0 0 327 0 168 0 0	24 18 432 LOSS 0 1302 834 0 0 1262 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 25056 987 0 0 0 1770 0 944 0 0 0 3857	0 0 0 0 0 216 0 0 15	18 12 216 LOSS 0 0 0 0 0 0 833 0 0 44 0 0 0 877 0.29 252	GAIN 0 0 0 0 0 113 0 0 18 0 0 5 0 0 0 0			2000	0 0 0 46 134 0 73 0	18 10 180 LOSS 0 0 0 0 1244 517 0 0 215 0 0 1975 568 0	GAIN 0 0 0 0 168 70 0 0 87 0	0 0 0 20 124 0 0 0	12 12 144 LOSS 0 0 0 0 541 478 0 0 0 0 0 1019	GAIN 0 0 0 0 73 65 0 0 0	corrections a made withou Standards Bi Zoning By-I Ontario Bui approved do times. The posted on sit Discipline Building Cot Sewage Syste	Building nave beer s noted. t written anch. A aw 2018 lding Co comments : building e at all tin Reviec H. A	Standards B n reviewe No other approve 1-043, as ode, as must be permit nes.	illim Branch BCIN red for user changeral of the must constant amende amende amende must be better the must be better the must be better the best better the best better the best best best best best best best bes	n#16487 use with ges may he Build omply we led, and ded. Then site at be clear	the 7 be ding with the nese t all arrly	4 4 0 20 0 485 0 0	194 9 1261 LOSS 0 81 81 81 0 1869 0 0 6696 9350 0.73 6829	0 163 96 163 0 73 0 253 0 0 0

TOTAL HEAT GAIN BTU/H:

36528

TONS: 3.04

LOSS DUE TO VENTILATION LOAD BTU/H: 1747

STRUCTURAL HEAT LOSS: 50831

TOTAL COMBINED HEAT LOSS BTU/H: 52578

Mahad Oxomba . INDIVIDUAL BCIN: 19669



B		: TRINAR : GREENF							LOT 36 GLENWA				DATE:	Dec-20			GFA:	2969	LO#	88748				
HEATING CFM TOTAL HEAT LOSS AIR FLOW RATE CFM	22.25		TOTAL F	DLING CFM HEAT GAIN RATE CFM	36,292		а	fun a/c coil vailable	pressure nace filter pressure pressure r s/a & r/a	0.6 0.05 0.2 0.35						(GMEC960 FAN		GOODMA 60	AN		AFUE = (BTU/H) = (BTU/H) =	60,000	
RUN COUNT S/A R/A	4th 0	3rd 0 0	2nd 11 5	1st 10 3	Bas 5 1		max	s/a dif p	essure s/a ress. loss	0.18 0.02		a grille pre		0.17 0.02			N	EDLOW MEDIUM IM HIGH			DESI	IGN CFM = CFM @ .	1131 6 " E.S.P.	-
All S/A diffusers 4"x10" unle All S/A runs 5"Ø unless not				out.			min adju	usted pre	essure s/a	0.16	adj	usted pre	ssure r/a	0.15				HIGH	1131		TEMPERAT	URE RISE	47	_ °F
RUN#	1	2	3	4	5	6	7	8	9	10	11	12	13		15	16	17	18	19	20	21	22	23	24
ROOM NAME	MBR	ENS	WIC	BED-2	BED-3	BED-4	BATH	ALC	BED-3	MBR	ENS-4	LV/DN	KT/FM		KT/FM	OFF	LAUN	MUD	FOY	KT/FM		BAS	BAS	BAS
RM LOSS MBH. CFM PER RUN HEAT	1.34 30	2.05 46	0.75	1.38	1.60	1.76	1.79	1.54	1.60	1.34	1.16	1.42	1.95		1.95	2.34	1.13	1.31	2.54	1.95	3.24	3.24	3.24	3.24
RM GAIN MBH.	1.93	46 1.74	17 0.86	31 1.76	36 1.98	39 2.54	40 0.88	34 0.53	36 1.98	30 1.93	26 0.91	32 1.49	43 2.25		43	52	25	29	57	43	72	72	72	72
CFM PER RUN COOLING	60	54	27	55	62	79	27	17	62	60	28	46	2.25 70		2.25 70	3.02 94	1.00 31	1.01 32	0.44 14	2.25 70	0.20 6	0.20	0.20	0.20
ADJUSTED PRESSURE	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17		0.17	0.16	0.17	0.17	0.17	0.17	0.17	6 0.17	6 0.17	6 0.17
ACTUAL DUCT LGH.	27	34	50	57	50	40	57	44	53	33	48	24	30		16	53	24	14	43	26	23	19	29	47
EQUIVALENT LENGTH	120	130	140	150	140	200	180	130	150	160	200	190	130		110	120	110	100	150	140	130	120	170	120
TOTAL EFFECTIVE LENGTH ADJUSTED PRESSURE	147	164 0.1	190	207	190	240	237	174	203	193	248	214	160		126	173	134	114	193	166	153	139	199	167
ROUND DUCT SIZE	0.12 5	5	0.09 4	0.08 6	0.09 5	0.07 6	0.07 5	0.1 4	0.08 5	0.09 5	0.07 4	0.08 6	0.11 5		0.14 5	0.09	0.13	0.15	0.09	0.1	0.11	0.12	0.09	0.1
HEATING VELOCITY (ft/min)	220	338	195	158	264	199	294	390	264	220	298	163	316		316	6 265	4 287	4 333	5 419	5 316	5 529	5 529	5 529	5 529
COOLING VELOCITY (ft/min)	441	396	310	280	455	403	198	195	455	441	321	235	514		514	479	356	367	103	514	44	44	44	44
OUTLET GRILL SIZE	3X10	3X10	3X10	4X10	3X10	4X10	3X10	3X10	3X10	3X10	3X10	4X10	3X10		3X10	4X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10
TRUNK	A	В	В		E	F	E	E	E	A	<u> </u>	F	<u>B</u>		A	D	C	C	D	. A	В	A	F	D
RUN#	25	26	27										***************************************								<u></u>	Town of		-
ROOM NAME	OFF	LV/DN	BAS) E	East Gv	villim	oury
RM LOSS MBH.	2.34	1.42	3.24																	_		Building Standar	ds Branch BCIN	±16487
CFM PER RUN HEAT	52	32	72																	٧	Our town, Our fature			
RM GAIN MBH. CFM PER RUN COOLING	3.02 94	1.49 46	0.20 6																	Th	ese plans ha	ve been revi	ewed for us	e with the
ADJUSTED PRESSURE	0.16	0.17	0.17																	co	rrections as	noted. No o	ther change	s may be
ACTUAL DUCT LGH.	45	27	20																		ade without andards Bran			
EQUIVALENT LENGTH	120	170	180																	Zc	ning By-Lav	w 2018-043,	as amende	l, and the
TOTAL EFFECTIVE LENGTH	165	197	200																		ntario Build proved docu			
ADJUSTED PRESSURE ROUND DUCT SIZE	0.1 6	0.09 6	0.09 5																		nes. The bu	uilding perr		
HEATING VELOCITY (ft/min)	265	-																						
COOLING VELOCITY (ft/min)		163																			sted on site a	it all times.		
, ,	479	163 235	529																	po	iscipline	Reviewer		Date
OUTLET GRILL SIZE	479 4X10	163 235 4X10																		po E B	iscipline milding Code	Reviewer H. Authier		Date 2021-02-03
OUTLET GRILL SIZE TRUNK		235	529 44				****				······································									po B S	viscipline wilding Code ewage System	Reviewer H. Authier		
TRUNK	4X10	235 4X10	529 44 3X10				***************************************													po B S	iscipline milding Code	Reviewer H. Authier		
1	4X10 D	235 4X10 F	529 44 3X10 C	RECT			VEI COITY			TDUNK	CTATIO	BOULE	PECT			\(\tau_{1} \)	RETURN A			po B S Z	viscipline guilding Code ewage System oning	Reviewer H. Authier		2021-02-03
TRUNK	4X10	235 4X10	529 44 3X10	RECT DUCT			VELOCITY (ft/min)			TRUNK	STATIC PRESS.	ROUND	RECT			VELOCITY (ft/min)	RETURN A	TRUNK	STATIC	po E S S Z ROUND	biscipline building Code ewage System oning	Reviewer H. Authier		VELOCITY
TRUNK	4X10 D TRUNK CFM 218	235 4X10 F	529 44 3X10 C		x	8			TRUNK G	TRUNK CFM O	STATIC PRESS. 0.00	ROUND DUCT 0	RECT DUCT 0	x	8	VELOCITY (fVmin)	RETURN A		STATIC PRESS.	po B S Z	ewage System oning RECT DUCT	Reviewer H. Authier	43236	VELOCITY (ft/min)
TRUNK SUPPLY AIR TRUNK SIZE TRUNK A TRUNK B	4X10 D TRUNK CFM 218 178	235 4X10 F STATIC PRESS. 0.09 0.09	529 44 3X10 C ROUND DUCT 7.7 7.1	в 8 8	x	8	(ft/min) 491 401		TRUNK H	СFM 0 0	0.00 0.00	0 0 0	0 0	x x	8	(ft/min)		TRUNK CFM	STATIC	PO B S Z Z ROUND DUCT	biscipline building Code ewage System oning	Reviewer H. Authier		VELOCITY
TRUNK SUPPLY AIR TRUNK SIZE TRUNK A TRUNK B TRUNK C	4X10 D TRUNK CFM 218 178 522	235 4X10 F STATIC PRESS. 0.09 0.09 0.09	529 44 3X10 C ROUND DUCT 7.7 7.1 10.7	8 8 8 14	x x	8	(ft/min) 491 401 671		TRUNK H TRUNK I	0 0 0 0	0.00 0.00 0.00	0 0 0 0	0 0 0	x x	8	(ft/min)	TRUNK O TRUNK P TRUNK Q	TRUNK CFM O O O	STATIC PRESS. 0.05 0.05 0.05	ROUND DUCT 0 0 0	ewage System oning RECT DUCT 0 0 0	Reviewer H. Authier	8 8 8 8	VELOCITY (ft/min) 0 0
TRUNK SUPPLY AIR TRUNK SIZE TRUNK A TRUNK B TRUNK C TRUNK D	4X10 D TRUNK CFM 218 178 522 233	235 4X10 F STATIC PRESS. 0.09 0.09 0.09 0.09	529 44 3X10 C ROUND DUCT 7.7 7.1 10.7 7.9	8 8 8 14 8	x x x	8 8 8	(ft/min) 491 401 671 524		TRUNK H TRUNK I TRUNK J	O O O	0.00 0.00 0.00 0.00 0.00	0 0 0 0 0	0 0 0 0	x x x	8 8 8	(ft/min) 0 0 0 0	TRUNK O TRUNK P TRUNK Q TRUNK R	TRUNK CFM 0 0 0	STATIC PRESS. 0.05 0.05 0.05 0.05	ROUND DUCT 0 0 0	ewage System oning RECT DUCT 0 0 0 0	Reviewer H. Authier	8 8 8 8	VELOCITY (ft/min) 0 0 0
TRUNK SUPPLY AIR TRUNK SIZE TRUNK A TRUNK B TRUNK C	4X10 D TRUNK CFM 218 178 522	235 4X10 F STATIC PRESS. 0.09 0.09 0.09	529 44 3X10 C ROUND DUCT 7.7 7.1 10.7	8 8 8 14	x x	8	(ft/min) 491 401 671		TRUNK H TRUNK I	0 0 0 0	0.00 0.00 0.00	0 0 0 0	0 0 0	x x	8	(ft/min) 0 0	TRUNK O TRUNK P TRUNK Q TRUNK R TRUNK S	TRUNK CFM 0 0 0 0	STATIC PRESS. 0.05 0.05 0.05 0.05 0.05	ROUND DUCT 0 0 0 0 0 0 0	Piscipline anilding Code ewage System oning RECT DUCT 0 0 0 0 0 0 0 0	Reviewer H. Authier	8 8 8 8 8	VELOCITY (ft/min) 0 0 0 0
TRUNK SUPPLY AIR TRUNK SIZE TRUNK A TRUNK B TRUNK C TRUNK C TRUNK D TRUNK E	4X10 D TRUNK CFM 218 178 522 233 405	235 4X10 F STATIC PRESS. 0.09 0.09 0.09 0.09 0.07	529 44 3X10 C ROUND DUCT 7.7 7.1 10.7 7.9 10.3	8 8 8 14 8 12	x x x	8 8 8	(ft/min) 491 401 671 524 608		TRUNK H TRUNK I TRUNK J TRUNK K	O O O O	0.00 0.00 0.00 0.00 0.00 0.00	0 0 0 0 0 0	0 0 0 0 0	x x x x	8 8 8	(ft/min) 0 0 0 0 0	TRUNK O TRUNK P TRUNK Q TRUNK R	TRUNK CFM 0 0 0	STATIC PRESS. 0.05 0.05 0.05 0.05	ROUND DUCT 0 0 0	ewage System oning RECT DUCT 0 0 0 0	Reviewer H. Authier X X X X X X	8 8 8 8	VELOCITY (ft/min) 0 0 0
TRUNK SUPPLY AIR TRUNK SIZE TRUNK A TRUNK B TRUNK C TRUNK D TRUNK E TRUNK F	4X10 D TRUNK CFM 218 178 522 233 405	235 4X10 F STATIC PRESS. 0.09 0.09 0.09 0.09 0.07 0.07	529 44 3X10 C ROUND DUCT 7.7 7.1 10.7 7.9 10.3 11.8	8 8 14 8 12 18	x x x x	8 8 8 8 8	(ft/min) 491 401 671 524 608		TRUNK H TRUNK I TRUNK J TRUNK K	O O O O	0.00 0.00 0.00 0.00 0.00 0.00	0 0 0 0 0 0	0 0 0 0 0	x x x x	8 8 8	(ft/min) 0 0 0 0 0 0	TRUNK O TRUNK P TRUNK Q TRUNK R TRUNK S TRUNK T TRUNK U TRUNK V	TRUNK CFM 0 0 0 0 0 0 0 435	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 11.6	viscipline uniding Code ewage System oning RECT DUCT 0 0 0 0 0 0 0 0 0 0 16	Reviewer H. Authier	8 8 8 8 8 8	VELOCITY (t/min) 0 0 0 0 0 0
TRUNK SUPPLY AIR TRUNK SIZE TRUNK A TRUNK B TRUNK C TRUNK C TRUNK D TRUNK E	TRUNK CFM 218 178 522 233 405 580	235 4X10 F STATIC PRESS. 0.09 0.09 0.09 0.07 0.07	529 44 3X10 C ROUND DUCT 7.7 7.1 10.7 7.9 10.3 11.8	8 8 8 14 8 12 18	x x x x x	8 8 8 8 8	(ft/min) 491 401 671 524 608 580	8	TRUNK H TRUNK I TRUNK J TRUNK K TRUNK L	O O O O	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0 0 0 0 0 0 0	0 0 0 0 0 0 0	x x x x	8 8 8 8 8	(ft/min) 0 0 0 0 0	TRUNK O TRUNK P TRUNK Q TRUNK R TRUNK S TRUNK T TRUNK U TRUNK V	TRUNK CFM 0 0 0 0 0 0 435 870	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 11.6 15	viscipline uniding Code ewage System oning 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 X X X X X X X X X X X X X X	8 8 8 8 8 8 8 8	VELOCITY (ft/min) 0 0 0 0 0 0 489 602
TRUNK SIZE TRUNK A TRUNK SIZE TRUNK A TRUNK B TRUNK C TRUNK D TRUNK E TRUNK F	4X10 D TRUNK CFM 218 178 522 233 405 580	235 4X10 F STATIC PRESS. 0.09 0.09 0.09 0.07 0.07	529 44 3X10 C ROUND DUCT 7.7 7.1 10.7 7.9 10.3 11.8	8 8 8 14 8 12 18	x x x x x	8 8 8 8 8	(ft/min) 491 401 671 524 608 580	0	TRUNK H TRUNK J TRUNK K TRUNK K TRUNK L	O O O	PRESS. 0.00 0.00 0.00 0.00 0.00 0.00	0 0 0 0 0 0 0	0 0 0 0 0 0 0	x x x x x	8 8 8 8 8	(ft/min) 0 0 0 0 0 0	TRUNK O TRUNK P TRUNK Q TRUNK R TRUNK S TRUNK T TRUNK U TRUNK V TRUNK W TRUNK X	TRUNK CFM 0 0 0 0 0 0 435 870 1131	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 11.6 15 16.5	viscipline uniding Code ewage System oning RECT DUCT 0 0 0 0 0 0 0 0 0 0 16 26 32	X X X X X X X X X X X X X X X X X X X	8 8 8 8 8 8 8 8	VELOCITY (ft/min) 0 0 0 0 0 0 489 602 636
TRUNK SUPPLY AIR TRUNK SIZE TRUNK A TRUNK B TRUNK C TRUNK D TRUNK E TRUNK F	TRUNK CFM 218 178 522 233 405 580	235 4X10 F STATIC PRESS. 0.09 0.09 0.09 0.07 0.07	529 44 3X10 C ROUND DUCT 7.7 7.1 10.7 7.9 10.3 11.8	8 8 8 14 8 12 18	x x x x x	8 8 8 8 8	(ft/min) 491 401 671 524 608 580		TRUNK H TRUNK I TRUNK J TRUNK K TRUNK L	O O O O	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0 0 0 0 0 0 0	0 0 0 0 0 0 0	x x x x	8 8 8 8 8	(ft/min) 0 0 0 0 0 0 0	TRUNK O TRUNK P TRUNK Q TRUNK R TRUNK S TRUNK T TRUNK U TRUNK V	TRUNK CFM 0 0 0 0 0 0 435 870 1131 435	STATIC PRESS. 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0	ROUND DUCT 0 0 0 0 0 11.6 16.5 11.6	RECT DUCT 0 0 0 0 16 26 32 16	Reviewer H. Authier X X X X X X X X X X X X X X X X X X	8 8 8 8 8 8 8 8 8 8	VELOCITY (ft/min) 0 0 0 0 0 489 602 636 489
TRUNK SUPPLY AIR TRUNK SIZE TRUNK A TRUNK B TRUNK C TRUNK D TRUNK E TRUNK F RETURN AIR # AIR VOLUME PLENUM PRESSURE ACTUAL DUCT LGH.	4X10 D TRUNK CFM 218 178 522 233 405 580 1 0 95 0.15 40	235 4X10 F STATIC PRESS. 0.09 0.09 0.09 0.07 0.07 2 0 75 0.15 70	529 44 3X10 C ROUND DUCT 7.7 7.1 10.7 7.9 10.3 11.8	8 8 8 14 8 12 18 18 4 0 75 0.15 66	x x x x x x 5 0 280 0.15 28	8 8 8 8 8 8 0 155 0.15 29	(ft/min) 491 401 671 524 608 580 7 0 135 0.15 53	0 75 0.15 64	TRUNK H TRUNK J TRUNK K TRUNK L 0 0 0.15	O O O	0.00 0.00 0.00 0.00 0.00 0.00 0.00	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	(ft/min) 0 0 0 0 0 0	TRUNK O TRUNK P TRUNK Q TRUNK R TRUNK S TRUNK T TRUNK U TRUNK U TRUNK W TRUNK W TRUNK W	TRUNK CFM 0 0 0 0 0 0 435 870 1131	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 11.6 15 16.5	viscipline uniding Code ewage System oning RECT DUCT 0 0 0 0 0 0 0 0 0 0 16 26 32	X X X X X X X X X X X X X X X X X X X	8 8 8 8 8 8 8 8 8 8	VELOCITY (ft/min) 0 0 0 0 489 602 636 489 428
TRUNK SUPPLY AIR TRUNK SIZE TRUNK A TRUNK B TRUNK C TRUNK D TRUNK E TRUNK F RETURN AIR # AIR VOLUME PLENUM PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH	4X10 D TRUNK CFM 218 178 522 233 405 580 1 0 95 0.15 40 165	235 4X10 F STATIC PRESS. 0.09 0.09 0.07 0.07 2 0 75 0.15 70 255	529 44 3X10 C ROUND DUCT 7.7 7.1 10.7 7.9 10.3 11.8	8 8 14 8 12 18 18 4 0 75 0.15 66 215	x x x x x x 5 0 280 0.15 28 195	8 8 8 8 8 8 0 155 0.15 29 200	(ft/min) 491 401 671 524 608 580 7 0 135 0.15 53 240	0 75 0.15 64 255	TRUNK H TRUNK J TRUNK K TRUNK L 0 0 0.15	O O O O O O O O O O O O O O O O O O O	PRESS. 0.00 0.00 0.00 0.00 0.00 0.00	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 0 0.15 1	(fl/min) 0 0 0 0 0 0 0 0 0 0 166 0.15 14 175	TRUNK O TRUNK P TRUNK Q TRUNK R TRUNK S TRUNK T TRUNK U TRUNK V TRUNK W TRUNK W TRUNK Y TRUNK Y TRUNK Y	TRUNK CFM 0 0 0 0 0 0 435 870 1131 435 285	STATIC PRESS. 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0	ROUND DUCT 0 0 0 0 0 11.6 15 11.6 9.9	RECT DUCT 0 0 0 0 16 26 32 16 12	Reviewer H. Authier X X X X X X X X X X X X X X X X X X	8 8 8 8 8 8 8 8 8 8	VELOCITY (ft/min) 0 0 0 0 0 489 602 636 489
TRUNK SUPPLY AIR TRUNK SIZE TRUNK A TRUNK B TRUNK C TRUNK D TRUNK E TRUNK F RETURN AIR # AIR VOLUME PLENUM PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH TOTAL EFFECTIVE LH	4X10 D TRUNK CFM 218 178 522 233 405 580 1 0 95 0.15 40 165 205	235 4X10 F STATIC PRESS. 0.09 0.09 0.07 0.07 0.07	529 44 3X10 C ROUND DUCT 7.7 7.1 10.7 7.9 10.3 11.8	8 8 14 8 12 18 4 0 75 0.15 66 215 281	x x x x x x 5 0 280 0.15 28 195 223	8 8 8 8 8 8 0 155 0.15 29 200 229	(ft/min) 491 401 671 524 608 580 7 0 135 0.15 53 240 293	0 75 0.15 64 255 319	TRUNK H TRUNK J TRUNK K TRUNK L 0 0 0.15 1 0 1	O O O O O O O O O O O O O O O O O O O	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.15 1 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	x x x x x x x 0 0 0.15 1 0 1	8 8 8 8 8 0 0.15 1	(ff/min) 0 0 0 0 0 0 0 0 0 0 166 0.15 14 175 189	TRUNK O TRUNK P TRUNK Q TRUNK R TRUNK S TRUNK T TRUNK U TRUNK V TRUNK W TRUNK W TRUNK Y TRUNK Y TRUNK Y	TRUNK CFM 0 0 0 0 0 0 435 870 1131 435 285	STATIC PRESS. 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0	ROUND DUCT 0 0 0 0 0 11.6 15 11.6 9.9	RECT DUCT 0 0 0 0 16 26 32 16 12	Reviewer H. Authier X X X X X X X X X X X X X X X X X X	8 8 8 8 8 8 8 8 8 8	VELOCITY (ft/min) 0 0 0 0 489 602 636 489 428
TRUNK SUPPLY AIR TRUNK SIZE TRUNK A TRUNK B TRUNK C TRUNK D TRUNK E TRUNK F RETURN AIR # AIR VOLUME PLENUM PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH	4X10 D TRUNK CFM 218 178 522 233 405 580 1 0 95 0.15 40 165	235 4X10 F STATIC PRESS. 0.09 0.09 0.07 0.07 2 0 75 0.15 70 255	529 44 3X10 C ROUND DUCT 7.7 7.1 10.7 7.9 10.3 11.8	8 8 14 8 12 18 18 4 0 75 0.15 66 215	x x x x x x 5 0 280 0.15 28 195	8 8 8 8 8 8 0 155 0.15 29 200 229 0.06	(ft/min) 491 401 671 524 608 580 7 0 135 0.15 53 240 293 0.05	0 75 0.15 64 255 319 0.05	TRUNK H TRUNK J TRUNK J TRUNK K TRUNK L 0 0 0.15 1 0 1 14.80	O O O O O O O O O O O O O O O O O O O	0 0 0.15	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 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1	x x x x x x	8 8 8 8 8 0 0 0.15 1 14.80	(fl/min) 0 0 0 0 0 0 0 0 0 8 166 0.15 14 175 189 0.08	TRUNK O TRUNK P TRUNK Q TRUNK R TRUNK S TRUNK T TRUNK U TRUNK V TRUNK W TRUNK W TRUNK Y TRUNK Y TRUNK Y	TRUNK CFM 0 0 0 0 0 0 435 870 1131 435 285	STATIC PRESS. 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0	ROUND DUCT 0 0 0 0 0 11.6 15 11.6 9.9	RECT DUCT 0 0 0 0 16 26 32 16 12	Reviewer H. Authier X X X X X X X X X X X X X X X X X X	8 8 8 8 8 8 8 8 8 8	VELOCITY (ft/min) 0 0 0 0 489 602 636 489 428
TRUNK SUPPLY AIR TRUNK SIZE TRUNK A TRUNK B TRUNK C TRUNK C TRUNK F RETURN AIR # AIR VOLUME PLENUM PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH TOTAL EFFECTIVE LH ADJUSTED PRESSURE	TRUNK CFM 218 178 522 233 405 580 1 0 95 0.15 40 165 205 0.07	235 4X10 F STATIC PRESS. 0.09 0.09 0.07 0.07 2 0 75 0.15 70 255 0.05	529 44 3X10 C ROUND DUCT 7.7 7.1 10.7 7.9 10.3 11.8 3 0 75 0.15 63 225 288 0.05	0 75 0.15 66 215 281 0.05	x x x x x x 5 0 280 0.15 28 195 223 0.07	8 8 8 8 8 8 0 155 0.15 29 200 229	(ft/min) 491 401 671 524 608 580 7 0 135 0.15 53 240 293	0 75 0.15 64 255 319	TRUNK H TRUNK J TRUNK K TRUNK L 0 0 0.15 1 0 1	O O O O O O O O O O O O O O O O O O O	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.15 1 0 14.80	0 0 0 0 0 0 0 0 0 0 0 0 15 1 0 14.80	0 0 0 0 0 0 0 0 0 0 0	X X X X 2 0 0 0.15 1 0 1	8 8 8 8 8 0 0.15 1	BR 166 0.15 14 175 189 0.08 7.2	TRUNK O TRUNK P TRUNK Q TRUNK R TRUNK S TRUNK T TRUNK U TRUNK V TRUNK W TRUNK W TRUNK Y TRUNK Y TRUNK Y	TRUNK CFM 0 0 0 0 0 0 435 870 1131 435 285	STATIC PRESS. 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0	ROUND DUCT 0 0 0 0 0 11.6 15 11.6 9.9	RECT DUCT 0 0 0 0 16 26 32 16 12	Reviewer H. Authier X X X X X X X X X X X X X X X X X X	8 8 8 8 8 8 8 8 8 8	VELOCITY (ft/min) 0 0 0 0 489 602 636 489 428
TRUNK SUPPLY AIR TRUNK SIZE TRUNK A TRUNK B TRUNK C TRUNK C TRUNK E TRUNK F RETURN AIR # AIR VOLUME PLENUM PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH TOTAL EFFECTIVE LH ADJUSTED PRESSURE ROUND DUCT SIZE	TRUNK CFM 218 178 522 233 405 580 1 0 95 0.15 40 165 205 0.07 6	235 4X10 F STATIC PRESS. 0.09 0.09 0.09 0.07 0.07 2 0 75 0.15 70 255 325 0.05 6	529 44 3X10 C ROUND DUCT 7.7 7.1 10.7 7.9 10.3 11.8 3 0 75 0.15 63 225 288 0.05 6	DUCT 8 8 8 14 8 12 18 18 4 0 75 0.15 66 215 281 0.05 6	x x x x x x x 5 0 280 0.15 28 195 223 0.07 9	8 8 8 8 8 8 8 8 8 7.55 0.15 29 200 229 0.06 7.5	(ft/min) 491 401 671 524 608 580 7 0 135 0.15 53 240 293 0.05 7.5	0 75 0.15 64 255 319 0.05 6	TRUNK H TRUNK I TRUNK J TRUNK K TRUNK L 0 0 0.15 1 0 1 14.80 0	O O O O O O O O O O O O O O O O O O O	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 14.80	0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 14.80	X X X X X X 0 0 0.15 1 0 1 14.80	8 8 8 8 8 0 0 0.15 1 0 1 14.80	(fl/min) 0 0 0 0 0 0 0 0 0 8 166 0.15 14 175 189 0.08	TRUNK O TRUNK P TRUNK Q TRUNK R TRUNK S TRUNK T TRUNK U TRUNK V TRUNK W TRUNK W TRUNK Y TRUNK Y TRUNK Y	TRUNK CFM 0 0 0 0 0 0 435 870 1131 435 285	STATIC PRESS. 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0	ROUND DUCT 0 0 0 0 0 11.6 15 11.6 9.9	RECT DUCT 0 0 0 0 16 26 32 16 12	Reviewer H. Authier X X X X X X X X X X X X X X X X X X	8 8 8 8 8 8 8 8 8 8	VELOCITY (ft/min) 0 0 0 0 489 602 636 489 428



TYPE: SITE NAME: GLENWAY 12A

TRINAR HALL HOMES

LO#

LOT 36

88748

RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

COMBUSTION APPLIANCES 9.32.3	3.1(1)	SUPPLEMENTAL VI	ENTILATION CAP	ACITY	************		9.32.3.5	-	
a)		Total Ventilation Capa	acity		190.8		cfm		
b) Positive venting induced draft (except fireplaces)		Less Principal Ventil.	Capacity		79.5		cfm		
c) Natural draft, B-vent or induced draft gas fireplace		Required Supplement	tal Capacity		111.3		cfm		
d) Solid Fuel (including fireplaces)]	
e) No Combustion Appliances		PRINCIPAL EXHAUS							
		Model:	VANEE 65	H	Location	n: B	SMT	-	
HEATING SYSTEM		79.5	cfm 3.0) sone	s	✓ +	IVI Approved		
Forced Air Non Forced Air		PRINCIPAL EXHAUS						1	
		сғм 79.5 С FM	ΔT [*] X 81		FACTOR 1.08	X	% LOSS 0.25		
Electric Space Heat		SUPPLEMENTAL FA	ANS		PANASOI	NIC		7	
		Location	Mod	lel	cfm	HVI	Sones	ŀ	
HOUSE TYPE 9.32	2.1(2)	ENS	FV-05-1		50	/	0.3]	
Type a) or b) appliance only, no solid fuel		BATH	FV-05-1		50	- -	0.3	4	
Type a) or b) appliance only, no solid fuel		ENS-4 PWD	FV-05-1 FV-05-1		50 50	 	0.3	┨	
II Type I except with solid fuel (including fireplaces)							0.0	J	
		HEAT RECOVERY V					9.32.3.11	-]	
III Any Type c) appliance		Model: 155	VANEE		64		ofen lavv	-	
IV Type I, or II with electric space heat		155	cfm h	iigii			cfm low		
Other: Type I, II or IV no forced air		75	% Sensible @ 32 deg F	•		✓ H	IVI Approved		
				(o dog o)					
SYSTEM DESIGN OPTIONS O.N.H.	.W.P.	LOCATION OF INST.	ALLATION						
1 Exhaust only/Forced Air System		Lot:		······································	Concessio	n		-	
		Township			Plan:			1	
2 HRV with Ducting/Forced Air System		Address							
3 HRV Simplified/connected to forced air system		Roll #			Building Pe	<u></u>	Town of	.:11:	
4 HRV with Ducting/non forced air system		BUILDER:	GREENPAI	RK HOMES			East Gw Building Standards		•
Part 6 Design	İ		ONEE!!! /!!			Our town, Our fatare			
		Name:				corrections as	ave been revie noted. No ot	her cha	nges may
TOTAL VENTILATION CAPACITY 9.32.3.	3.3(1)	Address:		***************************************		Standards Bra	t written appro anch. All worl aw 2018-043, a	k must	comply w
Basement + Master Bedroom 2 @ 21.2 cfm 42.4 cfm	n	City:				Ontario Buil	ding Code, a uments must b	s ame	nded. The
Other Bedrooms 3 @ 10.6 cfm 31.8 cfm	n	Telephone #:			Fax#:		building perm		
Kitchen & Bathrooms 5 @ 10.6 cfm 53 cfm	ĺ	INSTALLING CONTR	ACTOR			Discipline Building Code	Reviewer H. Authier	BCIN 43236	Date 2021-02-0
			MOTOR			Sewage System Zoning			
Other Rooms 6 @ 10.6 cfm 63.6 cfm	n	Name:							
Table 9.32.3.A. TOTAL <u>190.8</u> cfm	n	Address:						-	
		City:							
PRINCIPAL VENTILATION CAPACITY REQUIRED 9.32.3.4	.4.(1)							1	
1 Bedroom 31.8 c	cfm	Telephone #:			Fax #:			J	
2 Bedroom 47.7 cf	sfm	DESIGNER CERTIFIC		m has been de	signed				
	efm .	in accordance with the	•	Code.	J				
			HVAC DES	 	1	······································		1	
4 Bedroom 79.5 cf	fm	Signature:		Milsohan	O Kount	le.			
5 Bedroom 95.4 cf	afm	HRAI#			001820			-	
TOTAL 79.5 cfm I REVIEW AND TAKE RESPONBILITY FOR THE DESIGN WORK AND AM QUALIFIED IN 1	THE APPR	Date:	OTHER DESIGNEES IN		ecember-20				
INDIVIDUAL BCIN: 19669 Michael O'ROURKE		S ESSINI PORM	DESIGNER OF						



			CSA F2	80-12 Residential Hea	t Loss and Heat Gain	Calculations							
				ula Sheet (For Air Lea				-					
LO#:	88748	Model: GLENWAY 1			r: GREENPARK HOMES		**************************************		Date	: 12/17/2020			
		Volume Calculation	on		1		Air Change & Del	ta T Data		,,			
House Volume						WINTER NA	TURAL AIR CHAN	GE RATE	0.223	1			
Level	Floor Area (ft²)	Floor Height (ft)	Volume (ft³)			SUMMER NA	ATURAL AIR CHAN	IGE RATE	0.062				
Bsmt	1462	9	13158							_			
First	1462	10	14620										
Second	1580	9	14220					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:	41,998.0 ft ³			Summer DTDc	24	30	6	11			
		Total:	1189.3 m³	j									
5.2.3.1 Heat Loss due to Air Leakage					6.2.6 Sensible Gain due to Air Leakage								
$HL_{airb} = LR_{airh} \times \frac{V_b}{3.6} \times DTD_h \times 1.2$					Н	$IG_{salb} = LR_{airc} \times$	$\times \frac{V_b}{3.6} \times DTD_c$	× 1.2					
0.223	x <u>330.35</u>	x <u>45 °C</u>	x <u>1.2</u>	= 4003 W	= 0.062	x <u>330.35</u>	0.0		. =	150 W			
				= 13658 Btu/h					=	513 Btu/h			
	5 2 2 2 Has	at Loss due to Mecha	nical Ventilation			62750	nsible heat Gain o	luo to Vontilatio	n				
	J.2.3.2 He	at LOSS due to Mecha	iicai veiitiiatioii			0.2.7 361	isible fleat Gain C	iue to ventilatio	<u> </u>				
	$HL_{vairb} =$	$PVC \times DTD_h \times 1$	$1.08\times(1-E)$		$HL_{vairb} = PVC \times DTD_h \times 1.08 \times (1 - E)$								
80 CFM	x <u>81°F</u>	x <u>1.08</u>	x 0.25	= 1747 Btu/h	80 CFM	x <u>11 °F</u>	x1.08	x0.25	. =	236 Btu/h			
			5.2.3.3 Calcula	tion of Air Change Heat	oss for Each Room (Floo	or Multiplier Section)							
		HL_a	_{irr} = Level Facto	or \times HL_{airbv} \times {(H	$L_{agcr} + HL_{bgcr}) \div$	$(HL_{agclevel} + HL_{b})$	gclevel)}						
		Level	Level Factor (LF)	HLairve Air Leakage + Ventilation Heat Loss	Level Conductive Heat Loss: (HL _{clevel})	Air Leakage Heat Los HLairby / H			East	Gwillimbury			
				(Btu/h)	0.350		· · · · · · · · · · · · · · · · · · ·	- 4	Building	Standards Branch BCIN #16487			
		1	0.5	-	9,350	0.73	·	- Carr	un, Our fature				
		2		13,658	14,251	0.28		The	a ulana harra bees	n naviamed for use mid-th-			
		3	0.2	12,036	12,507	0.21	8			n reviewed for use with the			

Ontario Buildi			
approved docum			
times. The hu		int must	be clearly
times. The bu posted on site at	all times.		
	all times.	BCIN	Date
posted on site at		BCIN 43236	Date 2021-02-03

0

0

0.000

0.000

4

0

0

*HLairbv = Air leakage heat loss + ventilation heat loss *For a balanced or supply only ventilation system HLairve = 0



375 Finley Ave. Suite 202 Ajax, ON L1S 2E2 Tel: 905.619.2300 Fax: 905.619.2375

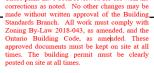
Web: www.hvacdesigns.ca E-mail: info@hvacdesigns.ca

HEAT LOSS AND GAIN SUMMARY SHEET

MODEL:	GLENWAY 12A		LOT 36	BUILDER: GREENPARK HOMES	
SFQT:	2969	LO#	88748	SITE: TRINAR HALL HOMES	
DESIGN A	SSUMPTIONS				1
	R DESIGN TEMP. DESIGN TEMP.		°F -9 72	COOLING OUTDOOR DESIGN TEMP. INDOOR DESIGN TEMP. (MAX 75°F)	°F 86 75
BUILDING	DATA				
ATTACHM	ENT:		DETACHED	# OF STORIES (+BASEMENT):	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
WIND EXP	OSURE:		SHELTERED	ASSUMED (Y/N):	Υ
HOUSE VC	DLUME (ft³):		41998.0	ASSUMED (Y/N):	Υ
INTERNAL	SHADING:	BLINDS	CURTAINS	ASSUMED OCCUPANTS:	5
INTERIOR	LIGHTING LOAD (Btu/h	n/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

2012 OBC - COMPLIANCE PACKAGE			
		Compliance	Package
Component		ENERG	YSTAR
		Nominal	Min. Eff.
Ceiling with Attic Space Minimum RSI (R)-Value		60	59.20
Ceiling Without Attic Space Minimum RSI (R)-Value		31	27.70
Exposed Floor Minimum RSI (R)-Value		31	29.80
Walls Above Grade Minimum RSI (R)-Value		R22+R5	21.10
Basement Walls Minimum RSI (R)-Value		20	21.12
Below Grade Slab Entire surface > 600 mm below grade N	1inimum RSI (R)-Value	-	-
Edge of Below Grade Slab ≤ 600 mm Below Grade Minimu	ım RSI (R)-Value	10	10
Heated Slab or Slab ≤ 600 mm below grade Minimum RSI	(R)-Value	10	11.13
Windows and Sliding Glass Doors Maximum U-Value	Town of	ZONE 2	-
Skylights Maximum U-Value	East Gwillimbury	ZONE 2	-
Space Heating Equipment Minimum AFUE	Building Standards Branch BCIN #16487	0.96	-
HRV Minimum Efficiency	These plans have been reviewed for use with the	75%	-
Domestic Hot Water Heater Minimum EF	corrections as noted. No other changes may be made without written approval of the Building	0.9	-

INDIVIDUAL BCIN: 19669 MICHAEL O'ROURKE



Makal Ofounde.

Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			
			1



Residential Foundation Thermal Load Calculator

Supplemental tool for CAN/CSA-F280

W	eather Statio	n Description	
Province:	Ontario		
Region:	Bradford		
	Site Desc	cription	
Soil Conductivity:	Normal cond	ductivity: dry sand, loam, clay	
Water Table:	Normal (7-1	0 m, 23-33 ft)	
	Foundation [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 Configuration	
Window Area (m²):	1.1	TOTAL SEASON CONTROL OF THE SEASON CONTROL O	
Door Area (m²):	1.9		
	Radian	t Slab	
Heated Fraction of the Slab:	0		
Fluid Temperature (°C):	33		■ Æ East Gwillimbur
	Design N	Nonths	Building Standards Branch BCIN #16487
Heating Month	1		These plans have been reviewed for use with corrections as noted. No other changes may made without written approval of the Buile Standards Person. All Purels was to combut.
	Foundation	on Loads	Standards Branch. All work must comply value of Standards By-Law 2018-043, as amended, and Ontario Building Code, as amended. The control of the standards o

TYPE: GLENWAY 12A

Heating Load (Watts):

LO# 88748

LOT 36

1962

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	2021-02-03
Sewage System			
Zoning			



Residential Foundation Thermal Load Calculator

Supplemental tool for CAN/CSA-F280

W	eather Stati	ion Description
Province:	Ontario	
Region:	Bradford	
	Site De	scription
Soil Conductivity:	Normal cor	nductivity: dry sand, loam, clay
Water Table:	Normal (7-	10 m, 23-33 ft)
	Foundation	Dimensions
Length (m):	0.0	
Width (m):	0.0	++ 0.6m +
Exposed Perimeter (m):	0.0	0.6m Insulation Configuration
	Radia	nt Slab
Heated Fraction of the Slab:	0	
Fluid Temperature (°C):	33	
	Design	Months
Heating Month	1	
	Res	sults
Heating Load (Watts):		O East Gwillimbu
		Building Standards Branch BCIN #16

TYPE: GLENWAY 12A

LO# 88748

LOT 36

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 amehded. 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	2021-02-03
Sewage System			
Zoning			



Air Infiltration Residential Load Calculator

Supplemental tool for CAN/CSA-F280

Weath	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):	6.55					
Buil	ding Configuration					
Type:	Detached					
Number of Stories:	Two					
Foundation:	Full					
House Volume (m³):	1189.3					
Air L	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					
Natu	ral Infiltration Rates					
Heating Air Leakage Rate (A	CH/H): 0.223					

TYPE: GLENWAY 12A

LO# 88748

Cooling Air Leakage Rate (ACH/H):

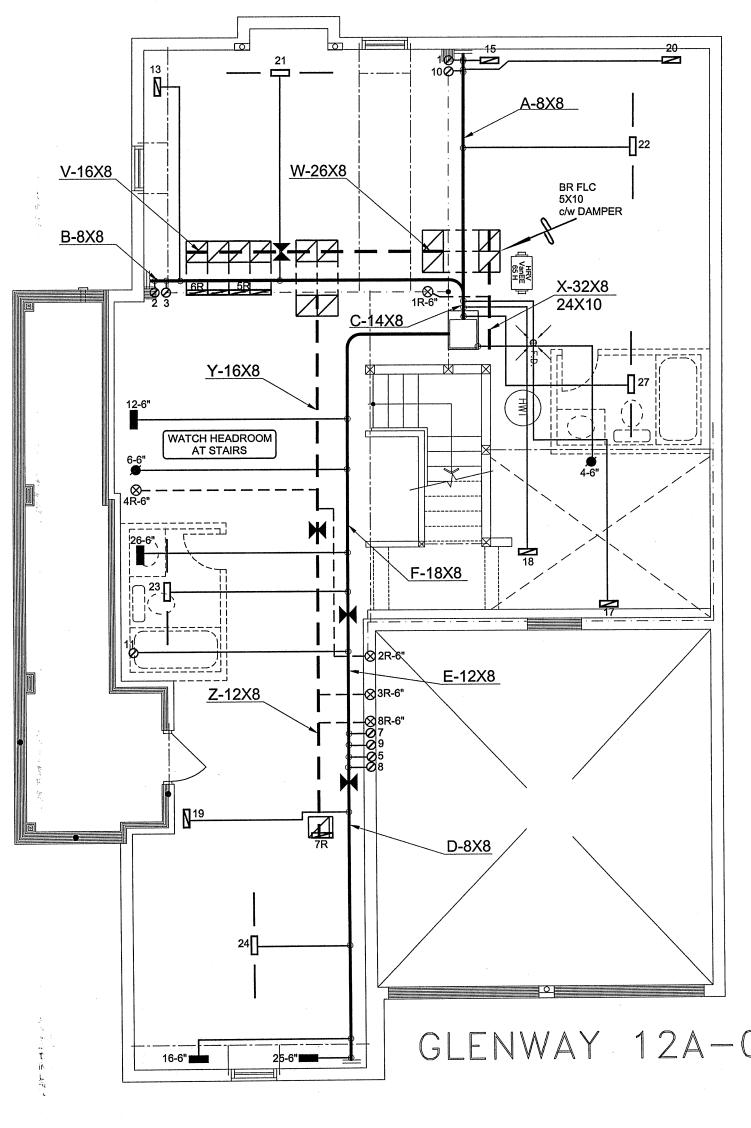


0.062

LOT 36

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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			





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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			

GLENWAY 12A-036

ergy **ENERGY STAR**

HVAC DESIGNS LTD.										
HVAC LEGEND								3.		
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	2.		
	SUPPLY AIR GRILLE		6" SUPPLY AIR BOOT ABOVE		14"x8" RETURN AIR GRILLE		RETURN AIR STACK ABOVE	1.		
	SUPPLY AIR GRILLE 6" BOOT	0	SUPPLY AIR STACK FROM 2nd FLOOR		30"x8" RETURN AIR GRILLE	D	RETURN AIR STACK 2nd FLOOR	No.	Description	Date
	SUPPLY AIR BOOT ABOVE	-	6" SUPPLY AIR STACK 2nd FLOOR		FRA- FLOOR RETURN AIR GRILLE	X	REDUCER	REVISIONS		

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GREENPARK HOMES

Project Name

TRINAR HALL HOMES EAST GWILLIMBURY, ONT.

LOT 36 GLENWAY 12A

2969 sqft

DESIGNS LTD.

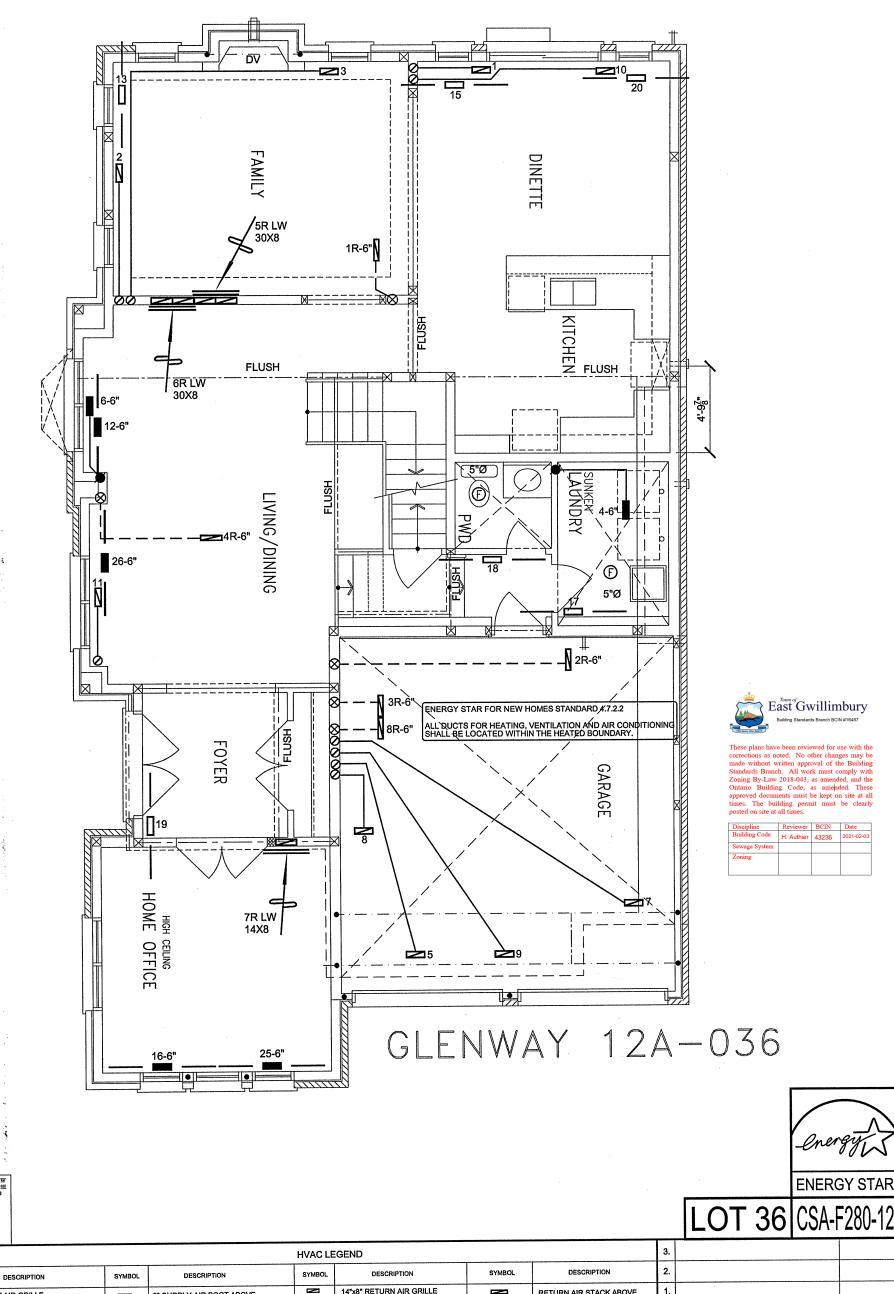
375 Finley Ave. Sulte 202 - Ajax, Ontario Tel. 905.619.2300 - 905.420.5300 Fax 905.619.2375 Email: info@hvacdesigns.ca Web: www.hvacdesigns.ca

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.

			BTU/H	# OF RUNS	S/A	R/A	FANS	Sheet 1
		JNIT DATA		3RD FLOOR				
		OODMAN		2ND FLOOR	11	5	3	
	MODEL GME	C960603BN	Α	1ST FLOOR	10	3	3	
	INPUT	60	мвти/н	BASEMENT	5	1	0	Date
	OUTPUT		MBTU/H	ALL S/A DIFFU	SERS	4 "x10)"	Scale
		57.6		UNLESS NOTE				
e	COOLING	3.0	TONS	ON LAYOUT. A				
	FAN SPEED	1131	cfm @ 0.6" w.c.	ON LAYOUT. U DOORS 1" min.	NDER	CUT		LC

BASEMENT HEATING LAYOUT DEC/2020 3/16" = 1'-0" BCIN# 19669

88748



DESCRIPTION 14"x8" RETURN AIR GRILLE RETURN AIR STACK ABOVE 6" SUPPLY AIR BOOT ABOVE SUPPLY AIR GRILLE - 🗀 30"y8" RETURN AIR GRILLE Date Description RETURN AIR STACK 2nd FLOOR No. SUPPLY AIR STACK FROM 2nd FLOOR SUPPLY AIR GRILLE 6" BOOT 0 FRA- FLOOR RETURN AIR GRILLE REDUCER REVISIONS SUPPLY AIR BOOT ABOVE ø 6" SUPPLY AIR STACK 2nd FLOOR

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GREENPARK HOMES

Project Name

TRINAR HALL HOMES EAST GWILLIMBURY, ONT.

LOT 36 **GLENWAY 12A**

2969 sqft

DESIGNS LTD.

375 Finley Ave. Suite 202 - Ajax, Ontario 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

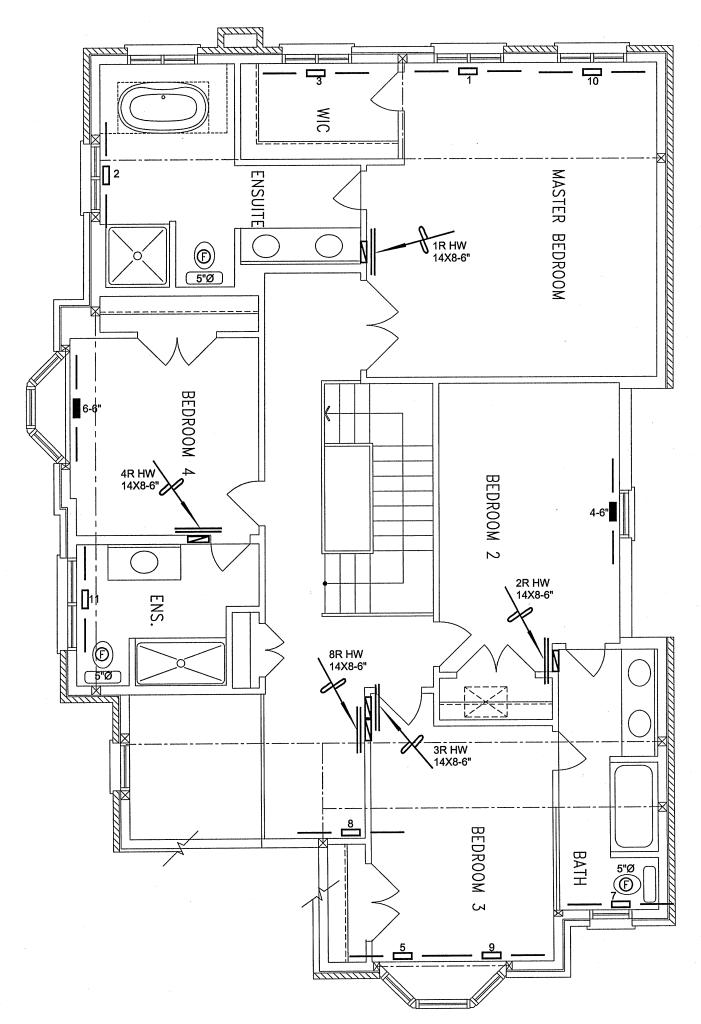
Installation to comply with the latest Ontario Building Code. All supply branch outlets shall be equipped with a manual balancing damper.

Ductwork which passes through the garage or unheated spaces shall be adequately insulated and be gas-proofed.

most mis
FIRST FLOOR
HEATING
LAYOUT

Date DEC/2020 3/16" = 1'-0" Scale BCIN# 19669

88748





Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			

GLENWAY 12A-036



LOT 36 CSA-F280-12

HVAC DESIGNS LTD.										
HVAC LEGEND 3										
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	2.		
	SUPPLY AIR GRILLE		6" SUPPLY AIR BOOT ABOVE		14"x8" RETURN AIR GRILLE		RETURN AIR STACK ABOVE	1.		
	SUPPLY AIR GRILLE 6" BOOT	0	SUPPLY AIR STACK FROM 2nd FLOOR		30"x8" RETURN AIR GRILLE	BSI .	RETURN AIR STACK 2nd FLOOR	No.	Description	Date
	SUPPLY AIR BOOT ABOVE	6	6" SUPPLY AIR STACK 2nd FLOOR		FRA- FLOOR RETURN AIR GRILLE	X	REDUCER	REVISIONS		

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GREENPARK HOMES

Project Name

TRINAR HALL HOMES EAST GWILLIMBURY, ONT.

LOT 36 GLENWAY 12A

2969 sqft

DESIGNS LTD.

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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.

SECOND FLOOR **HEATING** LAYOUT

DEC/2020 Date 3/16" = 1'-0" Scale BCIN# 19669

88748