

#### **Schedule 1: Designer Information**

Use one form for each individual who reviews and takes responsibility for design activities with respect to the project.

A. Project Information				
Building number, street name			Lot:	
TH-6E Alt	t WOB		Lot/con.	
Municipality Bradford	Postal code	Plan number/ other description		
B. Individual who reviews and takes responsibility for design	gn activities			
Name David DaCosta		Firm	gtaDesigns Inc.	
Street address 2985 Drew Roa	d, Suite 202		Unit no.	Lot/con.
Municipality	Postal code	Province	E-mail	
Mississauga	L4T 0A4	Ontario	dave@gtades	<u>igns.ca</u>
Telephone number (905) 671-9800	Fax number	') 494-9643	Cell number (416) 268-6	820
C. Design activities undertaken by individual identified in S				020
☐ House ☑ HVAC – H	louse		☐ Building Structural	
☐ Small Buildings ☐ Building Se	ervices		☐ Plumbing – House	
☐ Large Buildings ☐ Detection,	Lighting and Pov	wer	☐ Plumbing – All Buildings	S
☐ Complex Buildings ☐ Fire Protect	ction		☐ On-site Sewage System	ns
Description of designer's work Mod	del Certification	1	Project #:	PJ-00204
			Layout #:	JB-04870
Heating and Cooling Load Calculations Main		Builder	Bayview Wellingto	on
Air System Design  Alternate Residential mechanical ventilation Design Summary  Area Sq ft:		Project	Green Valley	
Residential mechanical ventilation Design Summary Area Sq ft: Residential System Design per CAN/CSA-F280-12	1902	Model	TH-6E Alt WOB	
Residential New Construction - Forced Air		SB-12	Package A1	
D. Declaration of Designer			Ü	
l David DaCosta	declare that (c	choose one as appro	priate):	
(print name)				
, , , , , , , , , , , , , , , , , , ,				
☐ I review and take responsibility for t	the design work	on behalf of a firm regi	stered under subsection	
3.2.4 Division C of the Building Coo	de. I am qualified	d, and the firm is registe		
classes/categories.			TOWN OF BRADFORD WE BUILDING DEPARTMENT	ST GWILLIMBURY
Individual BCIN:			PLANS EXAMINED	ADDITEC
Firm BCIN:			ONTARIO BUILDING CODE DATE: 05/14/2024	: APPLIES
	the design and	am qualified in the app	ropriates care as BG	
"other designer" under subsection				
Individual BCIN:	3296	64		
Basis for exemp	tion from registra	ation:	Division C 3.2.4.1. (4)	
☐ The design work is exempt from the	e registration and	d qualification requirem	ents of the Building Code.	
Basis for exemp	tion from registra	ation and qualification:		
Leading that				
I certify that:  1. The information contained in this schedule is true to the best of many contained in the schedule is the schedule in the schedule in the schedule in the schedule is the schedule in t	ny knowledge			
I have submitted this application with the knowledge and consent	,			
are seemines and approximation mutual minimage und consolit		Mare Lo		
December 12, 2023		Mane Apo		
Date		Signature of Des	signer	

NOTE:

Page 1

1. For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) d), of Division C, Article 3.2.5.1. of Division C and all other persons who are exempt from qualifications under Subsections 3.2.4. and 3.2.5.of Division C.

2. Schedule 1 does not require to be completed a holder of a license, temporay license, or a certificate of authorization, issed by the Ontario Association of Architects. Schedule 1 is also not required to be completed by a holder of a license to practise, a limited licence to practise, or a certificate of authorization, issued by the Association of Professional Engineers of Ontario.

REVIEWED



2985 Drew Road, Suite 202, Mississauga, Ontario L4T 0A4 Tel: 905-671-9800 Fax: 647-494-9643 e-mail dave@gtadesigns.ca

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Heat loss and gain calcul	ation summary sheet CSA-F280-M12 Standard Form No. 1
These documents issued for the use of	ayview Wellington Layout No.
and may not be used by any other persons without authorization. Document	s for permit and/or construction are signed in red. JB-04870
Building	Location
Address (Model): TH-6E Alt WOB	Site: Green Valley
Model:	Lot:
City and Province: Bradford	Postal code:
Calculation	s based on
Dimensional information based on:	VA3 DESIGN22/May/2018
Attachment: Townhome	Front facing: East/West Assumed? Yes
No. of Levels: 3 Ventilated? Included	Air tightness: 1961-Present (ACH=3.57) Assumed? Yes
Weather location: Bradford	Wind exposure: Sheltered
HRV? LifeBreath RNC155	Internal shading: Light-translucent Occupants: 5
Sensible Eff. at -25C 71% Apparent Effect. at -0C 84%	Units: Imperial Area Sq ft: 1902
Sensible Eff. at -0C 75%	
Heating design conditions	Cooling design conditions
Outdoor temp -9.4 Indoor temp: 72 Mean soil tem; 48	Outdoor temp 86 Indoor temp: 75 Latitude: 44
Above grade walls	Below grade walls
Style A: As per OBC SB12 Package A1 R 22	Style A: As per OBC SB12 Package A1 R 20ci
Style B: Existing Walls (When Applicable) R 12	Style B:
Style C:	Style C:
Style D:	Style D:
Floors on soil	Ceilings
Style A: As per Selected OBC SB12 Package A1	Style A: As per Selected OBC SB12 Package A1 R 60
Style B:	Style B: As per Selected OBC SB12 Package A1 R 31
Exposed floors	Style C:
Style A: As per Selected OBC SB12 Package A1 R 31	Doors
Style B:	Style A: As per Selected OBC SB12 Package A1 R 4.00
Windows	Style B:
Style A: As per Selected OBC SB12 Package A1 R 3.55	Style C:
Style B: Existing Windows (When Applicable) R 1.99	Skylights
Style C:	Style A: As per Selected OBC SB12 Package A1 R 2.03
Style D:	Style B:
Attached documents: As per Shedule 1 Heat Loss/Ga	nin Caculations based on CSA-F280-12 Effective R-Values
Notes: Residential New C	Construction - Forced Air
Calculations p	performed by
Name: David DaCosta	Postal code: L4T 0A4
Company: gtaDesigns Inc.	Telephone: (905) 671-9800
Address: 2985 Drew Road, Suite 202	Fax: (416) 268-6820
City: Mississauga	E-mail dave@gtadesigns.ca
<u>-</u>	REVIEWE



Builder: Bayview Wellington

#### Air System Design

Date:

SB-12 Package A1 May 13, 2024

2985 Drew Road, Suite 202, Mississauga, Ontario L4T 0A4 Tel: 905-671-9800 Fax: 647-494-9643 e-mail dave@gtadesigns.ca

I review and take responsibility for the design work and am qualified in the appropriate category as an "other designer" under Division C subsection 3.2.5.

Page 3 PJ-00204 Project #

Project: Greer	n Valley			- Model:		т	H-6E AI	t WOB				Sy	stem	1	•	of the Bui Individual	lding Co		Other de	me 14	SCON		David DaC			ject # yout #		00204 04870
DESIGN LOAD SPECIFICATION					PIRITION	N & PRES	SIIDE					FIIDNACE	/AID HA	NDLER D				BOILER/W	VATED III	EATED D	ΛΤΛ·				A/C UNIT			
DESIGN LOAD SPECIFICATION	13		L	AIR DISTI	KIBUTIOI	N & FRES	JUKE				Ľ	TURNACE	AIN HA	NDLEK D	NIA.			BOILER/V	VAIENTI	EATER D	AIA.			Ľ	4/C UNIT	DATA.		
Level 1 Net Load	13,904 b					al Static P			0.5 "			Make		Ama				Make			Т	ype			Amana		2.0 T	Γon
Level 2 Net Load	11,914 b					ent Press	ure Drop		0.225 "			Model		AMEC960				Model	_						Cond		2.0	
Level 3 Net Load Level 4 Net Load	10,566 k			Available	_			41-	0.275 "			nput Btu/		6000				Input Btu/						(	Coil		2.0	
Total Heat Loss	36,384 b	otu/h		Return Bi R/A Plent		ngest Effe	ctive Len	gtn	300 fi 0.138 "			Output Bt E.s.p.	u/n	5760 0.50		'W.C.		Output Bt Min.Outpu			Δ	WH						
Total Heat Gain	20,186 k			S/A Plenu					0.130			L.s.p. Water Ten	np	0.5		deg. F.	ſ	min.Outpt	at Btu/ii				wer DATA					
Combo System HL + 10%	40,022 E					roportion	ing Facto	or	0.0255 c			AFUE		96%				Blower Sp	peed Sele	cted:	W2				Blower Ty	pe E	ЕСМ	
Building Volume Vb	21620 f			_		roportion	-		0.0460 c			Aux. Heat													-	-	BC 12.3.1	.5.(2))
Ventilation Load	1,118 E	Btuh.				F	R/A Temp		70 d	leg. F.	;	SB-12 Pac	kage	Packag	e A1			Heating C	heck =	929 c	fm			(	Cooling C	heck _	929	fm
Ventilation PVC	79.5 c	cfm					S/A Temp		127 d	leg. F.																		
Supply Branch and Grill Sizing				Diffuser l	oss =	0.01	w.c.					Temp. Ris	e>>> =	<u>57</u> c	leg. F.			Selected of	cfm> =	<u>929</u> c	fm		C	ooling A	ir Flow R	ate _	<u>929</u> c	fm
							Leve	l 1													Leve	12						
S/A Outlet No.	1	2	3	16											4	5	6	7	8	9								
Room Use	BASE	BASE	BASE	BASE											KIT	KIT	FAM	LAUN	PWD	FOY								
Btu/Outlet	3476	3476	3476	3476											1928	1928	3637	1231	650	2540								
Heating Airflow Rate CFM	89	89	89	89											49	49	93	31	17	65								
Cooling Airflow Rate CFM  Duct Design Pressure	44 0.13	44 0.13	44 0.13	44 0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	92 0.13	92 0.13	99 0.13	54 0.13	15 0.13	39 0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Actual Duct Length	59	46	10	74	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	68	74	57	24	2	12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Equivalent Length	140	100	120	110	70	70	70	70	70	70	70	70	70	70	100	120	90	120	130	100	70	70	70	70	70	70	70	70
Total Effective Length	199	146	130	184	70	70	70	70	70	70	70	70	70	70	168	194	147	144	132	112	70	70	70	70	70	70	70	70
Adjusted Pressure	0.07	0.09	0.10	0.07	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.08	0.07	0.09	0.09	0.10	0.12	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
Duct Size Round	6	6	6	6											6	6	6	5	3	5								
Outlet Size	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	3x10	3x10	3x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10
Trunk	В	Α	Α	В											В	В	A	Α	Α	A								
l							Leve	13													Leve	14						
S/A Outlet No. Room Use	10 MAST	11 ENS	12 BED 4	13 BED 3	14 BED 2	15 BATH																						
Btu/Outlet	2003	1948	1249	2642	2579	146																						
Heating Airflow Rate CFM	51	50	32	67	66	4																						
Cooling Airflow Rate CFM	98	54	46	82	78	3																						
Duct Design Pressure	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Actual Duct Length	64	89	76	22	36	35																						
Equivalent Length	130	150	170	100	130	110	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
Total Effective Length	194	239	246	122	166	145	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
Adjusted Pressure	0.07	0.05	0.05	0.11	0.08	0.09	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
Duct Size Round	6	6	5	6	6	2																						
Outlet Size	4x10 B	4x10 B	3x10	4x10	4x10	3x10 A	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10
Trunk	В	В	В	Α	Α	A																						
Return Branch And Grill Sizing			Grill Pres	sure Los	s	0.02 "	w.c					<u> </u>	Return Tr	runk Duct	Sizing					<u>s</u>	upply Tr	unk Duct	Sizing					
R/A Inlet No.	1R	2R	3R	4R	5R	6R	7R	8R	9R	10R	11R	Т	runk	c	FM I	Press. F	Round	Rect.	Size	Т	runk	C	FM F	ress. F	Round	Rect.	Size	
Inlet Air Volume CFM	178	436	105	105	105																							
Duct Design Pressure	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12		Orop		929	0.05	15.5	24x10		Α			929	0.05	15.5	28x8	18x12	
Actual Duct Length	12	22	33	63	70							Z			929	0.05	15.5	28x8	18x12	Е	3		409	0.05	11.5	14x8	12x10	
Equivalent Length	115	140	130	195	160	50	50	50	50	50	50	Y			646	0.05	14.0	22x8	18x10	C	;							
Total Effective Length	127	162	163	258	230	50	50	50	50 0.24	50	50	X								C E								
Adjusted Pressure Duct Size Round	0.09 7.0	0.07 11.0	0.07 6.0	0.05 6.0	0.05 6.0	0.24	0.24	0.24	0.24	0.24	0.24	V								F								
Inlet Size Round	7.0 FLC	11.0	6.U 8	6.0 8	6.U 8							ľ								9								
" "	rLC X	o X	o X	o X	x	x	x	x	x	x	x	T								Н								
Inlet Size	~	30	14	14	14	^		•	~	_	_	8								i								
•			-	-	-							F								J					\			
													•															
Trunk	z	Υ	Z	Υ	Υ							<u>.</u>								_			V			$\mathbf{M}$		



Total Heat Loss

Total Heat Gain

#### Heatloss/Gain Calculations CSA-F280-12

2985 Drew Road, Suite 202, Mississauga, Ontario L4T 0A4 Tel: 905-671-9800 Fax: 647-494-9643

e-mail dave@gtadesigns.ca

						Date:		Dece	ember 12	2023				Weather D							Dogo
		Builder:	Bayview Wellingto	n	-				0111001 12	, 2020		_		weather L	Data Bradford	44	-9.4 86 2	2 48.2			Page 4
2012 OBC		Project:	Green Valley		м	lodel:		TH	I-6E Alt V	VOB			System 1	Heat Los	ss^T 81.4 deg. F	Ht gain ^T	11 deg. F	GTA:	: 1902	Project # Layout #	PJ-00204 JB-04870
			Orden valley		- "											<b>-</b>					
	Level 1			BASE																	
Run ft.	t. exposed wall A			) A		A	A		Α		Α		Α	Α	Α	Α	A		Α	A	
Run ft.	. exposed wall B			I B		Е			В		В		В	В	В	В	В		В	В	
	Ceiling height			5 AG		5.5 A		5.5	5 AG		5.5 AG		5.5 AG	5.5 AG	5.5 AG	5.5 AG	5.5 A		5.5 AG	5.5 A	
_	Floor area		729	Area			Area		Area		Are		Area	Area	Area	Area		rea	Area		Area
	posed Ceilings A			A		A			A		A		A	Α _	A	A	A		A	A	
	posed Ceilings B Exposed Floors			B Flr		E	3 Fir		B Flr		B Flr		B Flr	B Flr	B Fir	B Flr	B F		B Fir	E	3 Flr
	Fross Exp Wall A		495			-	-ır		FIF		FIF		FIF	FIF	FIF	FIF	r	ır	FIF	-	·Ir
	Fross Exp Wall B		179																		
<u> </u>	Components	R-Values Loss			Gain	L	.oss Gai	,	Loss	Gain	Los	Gain	Loss G	in Loss Ga	in Loss Gain	Loss	Gain L	oss Gain	Loss	Gain L	oss Gain
	North Shaded		22.93 10.91								] [		1 -						7		
	East/West		22.93 27.35																		
	South	3.55	22.93 20.89	138	125																
	WOB Windows		22.93 27.35 53	1215	1450																
	Skylight		40.10 88.23																		
	Doors		20.35 2.75 2																		
	exposed walls A	21.13	3.85 0.52 468		244																
	exposed walls B		3.85 0.52 120	483	65																
	posed Ceilings A	59.22	1.37 0.64																		
Expo	posed Ceilings B Exposed Floors	22.86 29.80	3.56 1.66 2.73 0.17																		
oundation Conduct		29.80 On Grade ( ) o		5801																	
	Heat Loss	On Grade () o	ADO	8065																	
tal Conductive	Heat Gain			0000	1942																
Air Leakage	Heat Loss/Gain	0	6775 0.0366	5464																	
	Case 1		0.07 0.10																		
Ventilation	Case 2		14.07 11.88																		
	Case 3	x	0.05 0.10	374	186																
	leat Gain People																				
			239																		
Ap	ppliances Loads	1 =.25 perce	ent 3080 1.0	)	770																
Ap Duc	ppliances Loads uct and Pipe loss		ent 3080 1.0 10%		770																
Ap	ppliances Loads act and Pipe loss 13,904 3,860	Total I Total HG	ent 3080 1.0	13904	770 3860																
Ap Duc evel 1 HL Total evel 1 HG Total Run ft.	ppliances Loads uct and Pipe loss 13,904	Total I Total HG	nt 3080 10% 1L for per room per room x 1.3	13904 KIT 5 A B		36 A E 10.0		10	LAUN D A B		P 6 A B 10.0	WD	FOY 23 A B 11.0	A B 10.0	A B 10.0	A B 10.0	A B B 10.0		A B 10.0	A E	
Ap Duc evel 1 HL Total evel 1 HG Total Run ft.	uppliances Loads uct and Pipe loss 13,904 3,860  Level 2 t. exposed wall A t. exposed wall B	Total I Total HG	nt 3080 1.1 10% 1L for per room x 1.3 33	13904 KIT 5 A B		В	A 3	11.0	) A B		6 A B		23 A B	В	В	В	10.0		В	10.0	
Ap Duce veel 1 HL Total evel 1 HG Total Run ft.	Level 2 t. exposed wall A t. exposed wall B Ceiling height Floor area posed Ceilings A	Total HG	nt 3080 1.1 10% 1L for per room x 1.3 33	13904 KIT 5 A 8 0 5 Area A		10.0	A 3 Area	11.0	В В		6 A B 10.0 30 Area A		23 A B 11.0 61 Area A	B 10.0 Area A	B 10.0 Area A	B 10.0 Area A	10.0 A A	s urea	B 10.0 Area A	10.0 A	3 Area A
Ap Duc evel 1 HL Total evel 1 HG Total  Run ft. Run ft.  Exp	ppliances Loads uct and Pipe loss 13,904 3,860  Level 2 Lexposed wall A Lexposed wall B Ceiling height Floor area posed Ceilings A	Total IG	nt 3080 1.1 10% 1L for per room x 1.3 33	KIT 5 A B 0 5 Area A B		10.0 375 A	A Area A A	11.0	A B D Area A B		6 A B 10.0 30 Area A B		23 A B 11.0 61 Area A B	B 10.0 Area A B	B 10.0 Area A B	B 10.0 Area A B	10.0 A A B	s area a	B 10.0 Area A B	10.0 A A E	3 Area A 3
Ap Du	ppliances Loads Lct and Pipe loss 13,904 3,860  Level 2 t. exposed wall A c. exposed wall B Ceiling height Floor area posed Ceilings A oosed Ceilings A Exposed Floors Exposed Floors	Total IG	10.4 10.4 10.4 10.4 10.4 10.4 10.4 10.4	KIT 5 A B 5 Area A B		10.0 375 A A E	A Area A	11.0 65	A B D Area A B		6 A B 10.0 30 Area A B Fir		23 A B 11.0 61 Area A B FIr	B 10.0 Area A	B 10.0 Area A	B 10.0 Area A	10.0 A A	s area a	B 10.0 Area A	10.0 A A E	3 Area A
Ap Duce veel 1 HL Total evel 1 HG Total Run ft. Run ft. Exp. Exp. Gr	ppliances Loads ut and Pipe loss 13,904 3,860  Level 2 L exposed wall A L exposed wall B Ceiling height Floor area posed Ceilings B Exposed Floors ross Exp Wall A	Total IG	nt 3080 1.1 10% 1L for per room x 1.3 33	KIT 5 A B 5 Area A B		10.0 375 A	A Area A A	11.0	A B D Area A B		6 A B 10.0 30 Area A B		23 A B 11.0 61 Area A B	B 10.0 Area A B	B 10.0 Area A B	B 10.0 Area A B	10.0 A A B	s area a	B 10.0 Area A B	10.0 A A E	3 Area A 3
Ap Duce veel 1 HL Total evel 1 HG Total Run ft. Run ft. Exp. Exp. Gr	Level 2 Level 2 Level 2 Lexposed wall A cellings Helder Level 2 Lexposed wall A cexposed wall B Celling height Floor area posed Cellings A Exposed Floors cross Exp Wall A	Total HG	10% HL for per room per room x 1.3  33  10.6  356	KIT 5 A B 0 Area A B FIr	3860	10.0 375 A A E F 360	A Area A B B Tir	11.0 65	DAB BO SArea AB FIr		6 A B 10.0 30 Area A B Fir 60		23 A B 11.0 61 Area A B Fir 253	B 10.0 Area A B FIr	B 10.0 Area A B Fir	B 10.0 Area A B Fir	10.0 A A B F	urea L B	B 10.0 Area A B Fir	E 10.0 A E F	3 Area A 3 Fir
Ap Duce veel 1 HL Total evel 1 HG Total Run ft. Run ft. Exp. Exp. Gr	Level 2 Level 2 Level 2 Lexposed wall A cellings Helder Level 2 Lexposed wall A cexposed wall B Celling height Floor area posed Cellings A Exposed Floors cross Exp Wall A	Total HG Total HG	10.4 3080 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.	13904  KIT 5 A B 6 Area A B Fir		10.0 375 A A E F 360	A Area A A	11.0 65	OABO BO SArea AB BFIr	Gain	6 A B 10.0 30 Area A B Fir		23 A B 11.0 61 Area A B FIr	B 10.0 Area A B FIr	B 10.0 Area A B Fir	B 10.0 Area A B	10.0 A A B F	s area a	B 10.0 Area A B Fir	E 10.0 A E F	3 Area A 3
Ap Duce veel 1 HL Total evel 1 HG Total Run ft. Run ft. Exp. Exp. Gr	Level 2 t. exposed wall A ceiling height Floor area posed Ceilings A posed Ceilings B Exposed Floors posed Ceilings B Components	Total HG  Total HG  R-Values Loss	### 3080 1.4  ### 10%	KIT 5 A B 0 Area A B FIr	3860	10.0 375 A A E F 360	A Area A B B Tir	11.0 65	DAB BO SArea AB FIr		6 A B 10.0 30 Area A B Fir 60		23 A B 11.0 61 Area A B Fir 253	B 10.0 Area A B FIr	B 10.0 Area A B Fir	B 10.0 Area A B Fir	10.0 A A B F	urea L B	B 10.0 Area A B Fir	E 10.0 A E F	3 Area A 3 Fir
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Ap Du	Level 2 Level 2 Level 2 Level 2 Lexposed wall A Edilings Height Floor area posed Cellings A posed Cellings A Forss Exp Wall A Forss Exp Wall B Components North Shaded EastWest	Total HG  Total HG  R-Values Loss 3.55 3.55 3.55 1.99	100 100 100 100 100 100 100 100 100 100	KIT 5 A B 6 Area A B Flr	3860	10.0 375 A A E F 360	A Area A B Fir	11.0 65 110	DAB BO SArea AB FIr		6 A B 10.0 30 Area A B Fir 60	s Gain	23 A B 11.0 61 Area A B Fir 253 Loss G	B 10.0 Area A B Fir	B 10.0 Area A B Fir	B 10.0 Area A B Fir	10.0 A A B F	urea L B	B 10.0 Area A B Fir	E 10.0 A E F	3 Area A 3 Fir
Ap Du	Level 2 Level 2 Level 2 Level 2 Lexposed wall A Level 2 Lexposed wall A Lexposed wall B Celling height Floor area posed Cellings A posed Cellings A posed Cellings B Exposed Floors Gross Exp Wall A Gross Exp Wall B Components North Shaded EastWest South xisting Windows Skylight	Total HG  Total HG  R-Values Loss 3.55 3.55 3.55 1.99 2.03	10.5   1.0	KIT 5 A B 6 Area A B Flr	3860	10.0 375 A A E F 360	A Area A B Fir	11.0 65 110	A B B S Area A B FIr D Loss	Gain	6 A B 10.0 30 Area A B Fir 60	s Gain	23 A B 11.0 61 Area A B Fir 253 Loss G 14 321	B 10.0 Area A B Fir  Loss Ga	B 10.0 Area A B Fir	B 10.0 Area A B Fir	10.0 A A B F	urea L B	B 10.0 Area A B Fir	E 10.0 A E F	3 Area A 3 Fir
Ap Du	Level 2 t. exposed wall A Levol 2 t. exposed wall A Lexposed wall B Ceiling beight Floor area posed Ceilings A Dosed Ceilings A Exposed Floors Fross Exp Wall B Components North Shaded East/West South xisting Windows Skylight Doors	R-Values Loss 3.55 3.55 1.99 2.03	3080   1.0	13904  KIT 5 A B 5 Area A B FIr Loss	3860 Gain	10.0 375 A A E F 360 L	A A A A A A A A A A A A A A A A A A A	11.0	) A B ) 5 Area A B Fir ) Loss	Gain 58	6 A B 10.0 30 Are: A B Fir 60 Los	s Gain	23 A B 11.0 61 Area A B FIr 253 Loss G	B 10.0 Area A B Fir Sin Loss Ga	B 10.0 Area A B Fir	B 10.0 Area A B Fir	10.0 A A B F	urea L B	B 10.0 Area A B Fir	E 10.0 A E F	3 Area A 3 Fir
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Ap Du Du Political Server of the server of t	Level 2 Level 2 Level 2 Level 2 Lexposed wall A Lexposed wall B Ceiling height Floor area posed Ceilings A Exposed Floors ross Exp Wall B Components North Shaded East/West South Xisting Windows Skylight Doors exposed walls A exposed walls A	R-Values Loss 3.55 3.55 3.55 1.99 2.03 4.00 17.03 8.50 59.22	10.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	13904  KIT 5 A B 5 Area A B FIr Loss	3860 Gain	10.0 375 A A E F 360 L	A A A A A A A A A A A A A A A A A A A	11.0	) A B ) 5 Area A B Fir ) Loss	Gain 58	6 A B 10.0 30 Are: A B Fir 60 Los	s Gain	23 A B 11.0 61 Area A B FIr 253 Loss G	B 10.0 Area A B Fir Sin Loss Ga	B 10.0 Area A B Fir	B 10.0 Area A B Fir	10.0 A A B F	urea L B	B 10.0 Area A B Fir	E 10.0 A E F	3 Area A 3 Fir
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Ap Description Provided The Total  Run ft.  Run ft.  Exp. Gr Gr Gr  Net e Exp. Exp. Exp. Foundation Conduct  tal Conductive	Level 2 Level 2 Level 2 Lexposed wall A Lexposed wall A Lexposed wall B Ceiling height Floor area posed Ceilings A Components North Shaded EastWest Swight Doors exposed walls A Lexposed wall B Lexposed Floors consumer wall by the components Lexposed Floors consumer wall by the components Lexposed Floors Lexposed Wall B Lexposed Floors Exposed Floors Exposed Floors Exposed Floors Lexposed Walls B Lexposed Floors Lexposed Walls B Lexposed Floors Lexposed Floor	R-Values Loss 3.55 3.55 3.55 3.55 1.99 2.03 4.00 17.03 8.50 59.22 22.86 29.80 O On Grade () o	10.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	13904  KIT 6 A B 6 Area A B Fir 1 Loss 1261	Gain 1504 191	10.0 375 A A E F 360 L	A A A A A A A A A A A A A A A A A A A	11.0 65 110 110 110 110 110 110 110 110 110 11	D A B D D D D D D D D D D D D D D D D D	Gain 58 57	6 A B 10.0 30 Area A B Fir 60 Los	Gain 188	23 A B 11.0 61 Area A B Fir 253  Loss G 14 321  19 387 220 1052	B 10.0 Area A B Fir  Loss Ga 383	B 10.0 Area A B Fir	B 10.0 Area A B Fir	10.0 A A B F	urea L B	B 10.0 Area A B Fir	E 10.0 A E F	3 Area A 3 Fir
Ap Description Provided The Total  Run ft.  Run ft.  Exp. Gr Gr Gr  Net e Exp. Exp. Exp. Foundation Conduct  tal Conductive	Level 2 Level 2 Lexposed wall A Lexposed wall A Lexposed wall A Lexposed wall B Lexposed wall B Lexposed wall B Lexposed Cellings B Lexposed Cellings B Lexposed Floors Cross Exp Wall A Lexposed Floors South Lexposed Floors Lexposed Walls B Lexposed Walls A Lexposed Walls A Lexposed Walls A Lexposed Floors Lexposed Fl	R-Values Loss 3.55 3.55 3.55 1.99 2.03 4.00 17.03 8.50 5.9.22 22.86 0 On Grade () o	380 1.4 10% 1L for per room per room x 1.3  36  10.1 239 350 350 350 350 350 350 350 350 350 350	KIT 6 A B B 6 Area A B Fir Fir Loss 5 1261	Gain 1504	10.0 375 A A E F 360 L	A 3 Area A 3 3 BFIr 1009 1510 2519	11.0	) A B B	Gain 58 57	6 A B 10.0 30 Area A B Fir 60 Los	s Gain 206 188 244 33	23 A B 11.0 61 Area A B Fir 253 Loss G 14 321 19 387 220 1052	10.0 Area A B Fir Loss Ga 383 52 142	B 10.0 Area A B Fir	B 10.0 Area A B Fir	10.0 A A B F	urea L B	B 10.0 Area A B Fir	E 10.0 A E F	3 Area A 3 Fir
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App Description Provided The Total  Run ft.  Run ft.  Exp Exp Exp Exp Exp Exp Exp Exp Exp Ex	Level 2 Level 2 Level 2 Level 2 Level 2 Lexposed wall A Level 2 Lexposed wall A Lexposed wall B Cellings helght Floor area posed Cellings A Aposed Cellings A Aross Exp Wall A Aross Exp Wall B Components North Shaded EastWest South Middle Selfings A Aross Exp Wall B Components North Shaded EastWest South South South South Selfings B Lexposed Floors Cellings A Lexposed Walls B Lexposed Walls B Lexposed Walls B Lexposed Floors Cellings A Lexposed Floors Cellings A Lexposed Floors Cellings B Lexposed Floor	R-Values Loss 3.55 3.55 3.55 3.55 1.99 2.03 4.00 17.03 8.50 59.22 22.86 29.80 0 On Grade () o	10.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	KIT 6 A B B) 6 Area A B Fir 1 Coss 5 1261 1261 1261 1261 1261 1261 1261 12	Gain  1504  191  1695 62	10.0 375 A A A E F F F S 360	Area Area Area Area Area Area Area Area	11.0 65 110 110 211 85 204 85	0 A B 0 0 5 Area A B Fir 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Gain 588 57 115 4 11 11	6 A B 10.0 30 Area A B Fir 60 Los	3 Gain 206 188 244 33 250 221 779 8	23 A B B 11.0 61 Area A B Fir 253 Loss G 14 321 19 387 220 1759 699	B 10.0 Area A B Fir  Loss Ga 383 52 142	B 10.0 Area A B Fir	B 10.0 Area A B Fir	10.0 A A B F	urea L B	B 10.0 Area A B Fir	E 10.0 A E F	3 Area A 3 Fir
Ap Du	Level 2 Level 2 Leyosed wall B Cellings A posed Cellings A posed Cellings A posed Cellings B Exposed Floors Floor area posed Cellings B Exposed Floors Skylight Doors exposed wall B Exposed Floors Skylight Doors exposed Wall B Exposed Floors Skylight Doors exposed Wall B Exposed Floors EastWest South Living Windows Skylight Doors exposed Walls A exposed Vellings A posed Cellings B Exposed Floors Exposed Floors Heat Loss Heat Loss Heat Loss Heat Loss Heat Cain Floors Case 1 Case 2 Case 3 Heat Gain People	R-Values Loss 3.55 3.55 3.55 1.99 2.03 4.00 17.03 8.50 59.22 22.86 29.80 0 On Grade () o	10.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	KIT 6 A B B) 6 Area A B Fir 1 Coss 5 1261 1261 1261 1261 1261 1261 1261 12	Gain 1504 191 1695 62	10.0 375 A A A E F F F S 360	Area Area Area Area Area Area Area Area	11.0 65 110 1 10 10 10 10 10 10 10 10 10 10 10	0 A B 0 0 5 Area A B Fir 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Gain 58 57 57 4 4	6 A B 10.0 30 Area A B Fir 60 Los	3 Gain 206 188 244 33 250 221 779 8	23 A B B 11.0 61 Area A B Fir 253 Loss G 14 321 19 387 220 1759 699	B 10.0 Area A B Fir  Loss Ga 383 52 142	B 10.0 Area A B Fir	B 10.0 Area A B Fir	10.0 A A B F	urea L B	B 10.0 Area A B Fir	E 10.0 A E F	3 Area A 3 Fir
Ap Duc evel 1 HL Total evel 1 HG Total  Run ft. Run ft.  Exp Exp Exp Gr Gr Gr  Net e Exp Exp Exp Variation Onductive Air Leakage Ventilation H Ap Duc	Level 2 Level 3 Level 4 Level 4 Level 4 Level 5 Level 5 Level 5 Level 6 Level 6 Level 6 Level 6 Level 7 Level 7 Level 7 Level 8 Level 9 Level	R-Values Loss 3.55 3.55 3.55 3.55 3.55 2.03 4.00 17.03 8.50 59.22 22.86 29.80 2 On Grade () o	10.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	KIT 13904  KIT 16 A B B Fir 16 A B B Fir 17 A B B B B B B B B B B B B B B B B B B	Gain 1504 191 1695 62 163 1155	10.0 375 A A A E F F F S 360	A Area A B B B B B B B B B B B B B B B B B B	11.0 65 110 110 211 85 204 85	0 A B 0 10 5 Area A B Fir 10 10 10 10 10 10 10 10 10 10 10 10 10	Sain	6 A B 10.0 30 Are: A B Fir 60 Los	Gain  206 188  244 33  250 221  279 8	23 A B 11.0 61 Area A B Fir 253 Loss G 14 321 19 387 220 1052 1759 699	B 10.0 Area A B Fir  Loss Ga 383 52 142	B 10.0 Area A B Fir	B 10.0 Area A B Fir	10.0 A A B F	urea L B	B 10.0 Area A B Fir	E 10.0 A E F	3 Area A 3 Fir
Ap Du	Level 2 Level 2 Leyosed wall B Cellings A posed Cellings A posed Cellings A posed Cellings B Exposed Floors Floor area posed Cellings B Exposed Floors Skylight Doors exposed wall B Exposed Floors Skylight Doors exposed Wall B Exposed Floors Skylight Doors exposed Wall B Exposed Floors EastWest South Living Windows Skylight Doors exposed Walls A exposed Vellings A posed Cellings B Exposed Floors Exposed Floors Heat Loss Heat Loss Heat Loss Heat Loss Heat Cain Floors Case 1 Case 2 Case 3 Heat Gain People	R-Values Loss 3.55 3.55 3.55 3.55 4.00 17.03 8.50 59.22 22.86 29.80 0 On Grade () o	10.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	KIT 6 A B B) 6 Area A B Fir 1 Coss 5 1261 1261 1261 1261 1261 1261 1261 12	Gain 1504 191 1695 62 163 1155	10.0 375 A A E E S S S S S S S S S S S S S S S S	Area Area Area Area Area Area Area Area	11.0 65 110 110 211 85 204 85	0 A B 0 0 5 Area A B Fir 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Sain	6 A B 10.0 30 Are: A B Fir 60 Los	3 Gain 206 188 244 33 250 221 779 8	23 A B B 11.0 61 Area A B Fir 253 Loss G 14 321 19 387 220 1052 1759 699 82	B 10.0 Area A B Fir  Loss Ga 383 52 142	B 10.0 Area A B Fir	B 10.0 Area A B Fir	10.0 A A B F	urea L B	B 10.0 Area A B Fir	E 10.0 A E F	3 Area A 3 Fir

I review and take responsibility for the design work and am qualified in the appropriate category as an "other designer" under 32964

36,384 btu/h Division C subsection 3.2.5. of the Building Code. Individual BCIN: 20,186 btu/h

David DaCosta

SB-12 Package Package A1



#### Heatloss/Gain Calculations CSA-F280-12

2985 Drew Road, Suite 202, Mississauga, Ontario L4T 0A4 Tel: 905-671-9800 Fax: 647-494-9643

e-mail dave@gtadesigns.ca

	Builder:	Bayview Wellingt	JII	Date			nber 12, 2023					Weather Da	ta Bradfo	rd 44	-9.4	86 22	48.2			
2012 OBC	Project:	Green Valley		Mode	ı.	TH-6	SE Alt WOB			Sys	tem 1	Heat Loss	^T 81.4 deg. F	Ht gain ^T	11	deg. F	GTA:	1902	Project # Layout #	PJ-002 JB-048
	Froject.	Green valley		Would		111-0						<u> </u>	1 01.4 deg.1	Tit gain 1		ucg. i	OIA.	1302	Layout #	05-040
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Run ft. exposed wall B			В	-	В	13 /	В	21 A		В В		B	В	В		A B		В	A B	
Ceiling height		8.		8	.0	8.0		10.0		8.0		8.0	8.0	8.0		8.0		8.0	8.0	
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Exposed Ceilings B			В		В		В	В		В		В	В	В		В		В	В	
Exposed Floors			Flr		Flr		Fir	9 F	ir	144 Flr		10 Flr	Flr	Flr		Fir		Flr	Fl	r
Gross Exp Wall A		12	0	17	6	104		270		144										
Gross Exp Wall B	R-Values Loss	Gain	Loss G	Sain	Loss G	Gain I	Loss Gain		.oss Gai	in Los	s Gain	Loss Gair	Loss Ga	in Loss	Gain	Loss	Gain	Loss	Gain Lo	ss Gain
North Shaded		22.93 10.91		Ju			2000 00	7 Ē			<u> </u>						- Cu	1		,00 <b>0</b>
East/West			8 642	766 1	3 298	356		28	642	766 22	504 602									
South		22.93 20.89		1	3 298	272 16	367 3	14												
Existing Windows		40.90 22.15																4		
Skylight		40.10 88.23																		
Doors		20.35 2.75					***		4455	150 100	F00									
Net exposed walls A Net exposed walls B		4.78 0.65 9 9.58 1.29	2 440	59 15	0 717	97 88	421	7 242	1157	156 122	583 79									
Exposed Ceilings A	59.22	1.37 0.64 31	1 427	200 11	3 155	73 112	154	2 122	168	78 212	291 136	60 82	39							
Exposed Ceilings B	22.86	3.56 1.66																		
Exposed Floors	29.80	2.73 0.17						9	25	2 144	393 24	10 27	2							
oundation Conductive Heatloss																				
tal Conductive Heat Loss			1509	4005	1468		941		1991		772	110								
Heat Gain Air Leakage Heat Loss/Gain		2805 0.0366	423	1025 38	412	797 29	264	7	558	1002 37	841 497 31	31	40							
Case 1		0.03 0.10	423	30	412	29	204	'	336	37	497 31	31	1							
Ventilation Case 2		14.07 11.88																		
Case 3	x	0.05 0.10	70	98	68	76	44	14	92	96	82 81	5	4							
Heat Gain People		239	2	478		1	2:	9 1		239 1	239									
Appliances Loads																		41 1 7		
	1 =.25 perce																			
Duct and Pipe loss		10%			4040		1010		22.42		227 108									
Duct and Pipe loss	Total HG		2003	2130	1948	1173	1249	12	<b>2642</b>		227 108 579 1689	146	59							
Duct and Pipe loss vel 3 HL Total 10,566 vel 3 HG Total 7,829  Level 4  Run ft. exposed wall A  Run ft. exposed wall B  Ceiling height	Total HG	10% HL for per room	A B	2130	A B	,	9: A B	A B	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1786 A B	579 1689	146 A B	A B	A B Area		A B		A B Area	A B	
Duct and Pipe loss vel 3 HL Total 10,566 vel 3 HG Total 7,829  Level 4  Run ft. exposed wall A  Run ft. exposed wall B  Ceiling height Floor area	Total HG	10% HL for per room	A B	2130	A B Area	,	A B Area	A B	A A Area	A B	579 1689	A B Area	A B Area	B Area		B Area		B Area	B Ar	ea
Duct and Pipe loss vel 3 HL Total 10,566 vel 3 HG Total 7,829  Level 4  Run ft. exposed wall A  Run ft. exposed wall B  Ceiling height	Total HG	10% HL for per room	A B Area A B	2130	A B Area A B		A B Area A	A B A A B	A A A A A A A A A A A A A A A A A A A	A B Are A B	579 1689	A B Area A B	A B Area A B	B Area A B		B Area A B		B Area A B	B Ar A B	ea
Duct and Pipe loss vel 3 HL Total 10,566 vel 3 HG Total 7,829  Level 4  Run ft. exposed wall A Run ft. exposed wall B Ceiling height Floor area Exposed Ceilings A Exposed Ceilings A Exposed Ceilors Exposed Floors	Total HG	10% HL for per room	A B Area A	2130	A B Area A		A B Area A	A B A	A A A A A A A A A A A A A A A A A A A	A B Are	579 1689	A B Area A	A B Area A	B Area A		B Area A		B Area A	B Ar A	ea
Duct and Pipe loss vel 3 HL Total 10,566 vel 3 HG Total 7,829  Level 4  Run ft. exposed wall A  Run ft. exposed wall B  Ceiling height Floor area  Exposed Ceilings A  Exposed Ceilings A  Exposed Ceilings A  Exposed Floors  Gross Exp Wall A	Total HG	10% HL for per room	A B Area A B	2130	A B Area A B		A B Area A	A B A A B	A A A A A A A A A A A A A A A A A A A	A B Are A B	579 1689	A B Area A B	A B Area A B	B Area A B		B Area A B		B Area A B	B Ar A B	ea
Duct and Pipe loss vel 3 HL Total 10,566 vel 3 HG Total 7,829  Level 4  Run ft. exposed wall 8  Ceiling height Floor area Exposed Ceilings A Exposed Ceilings B Exposed Floors Gross Exp Wall A Gross Exp Wall A Gross Exp Wall A	Total HG	AL for per room per room x 1.3	A B Area A B Fir		A B Area A B Fir	,	A B Area A B B Fir	A B A A B F	A Area A B B B B B B B B B B B B B B B B B B	A B Are A B Fir	1689 1689	A B Area A B Fir	A B Area A B Fir	B Area A B Fir	Gain	B Area A B Fir	Gain	B Area A B Fir	B Ar A B Fl	rea
Duct and Pipe loss vel 3 HL Total 10,566 vel 3 HG Total 7,829  Level 4  Run ft. exposed wall A  Run ft. exposed wall B  Ceiling height Floor area  Exposed Ceilings A  Exposed Ceilings A  Exposed Ceilings A  Components  Components  North Shaded	Total HG  Total HG  R-Values Loss	AL for per room per room x 1.3	A B Area A B		A B Area A B Fir	,	A B Area A	A B A A B F	A A A A A A A A A A A A A A A A A A A	A B Are A B Fir	1689 1689	A B Area A B	A B Area A B Fir	B Area A B Fir	Gain	B Area A B	Gain	B Area A B Fir	B Ar A B Fli	rea
Duct and Pipe loss vel 3 HL Total 10,566 vel 3 HG Total 7,829  Level 4  Run ft. exposed wall A  Run ft. exposed wall B  Ceiling height Floor area Exposed Ceilings A  Exposed Floors Gross Exp Wall A  Gross Exp Wall A  Gross Exp Wall B  Components  North Shaded EastWest	Total HG  Total HG  R-Values Loss 3.55 3.55	10% **L for per room per room x 1.3  Gain  22.93 10.91  22.93 27.35	A B Area A B Fir		A B Area A B Fir	,	A B Area A B B Fir	A B A A B F	A Area A B B B B B B B B B B B B B B B B B B	A B Are A B Fir	1689 1689	A B Area A B Fir	A B Area A B Fir	B Area A B Fir	Gain	B Area A B Fir	Gain	B Area A B Fir	B Ar A B Fl	rea
Duct and Pipe loss vel 3 HL Total 10,566 vel 3 HG Total 7,829  Level 4  Run ft. exposed wall A Run ft. exposed wall B Ceiling height Floor area Exposed Ceilings A Exposed Ceilings A Exposed Ceilings A Gross Exp Wall A Gross Exp Wall A Gross Exp Wall B Components North Shaded EastWest South	Total HG  Total HG  R-Values Loss 3.55 3.55 3.55	10% AL for per room per room x 1.3 Gain 22.93 10.91 22.93 27.35 22.93 20.89	A B Area A B Fir		A B Area A B Fir	,	A B Area A B B Fir	A B A A B F	A Area A B B B B B B B B B B B B B B B B B B	A B Are A B Fir	1689 1689	A B Area A B Fir	A B Area A B Fir	B Area A B Fir	Gain	B Area A B Fir	Gain	B Area A B Fir	B Ar A B Fl	rea
Duct and Pipe loss vel 3 HL Total 10,566 vel 3 HG Total 7,829  Level 4  Run ft. exposed wall A  Run ft. exposed wall B  Ceiling height Floor area Exposed Ceilings A  Exposed Ceilings A  Exposed Ceilings A  Gross Exp Wall B  Components North Shaded  EastWest  South Existing Windows	Total HG  Total HG  R-Values Loss 3.55 3.55 3.55 1.99	10% AL for per room per room x 1.3  Gain 22.93 10.91 22.93 27.35 22.93 20.89 40.90 22.15	A B Area A B Fir		A B Area A B Fir	,	A B Area A B B Fir	A B A A B F	A Area A B B B B B B B B B B B B B B B B B B	A B Are A B Fir	1689 1689	A B Area A B Fir	A B Area A B Fir	B Area A B Fir	Gain	B Area A B Fir	Gain	B Area A B Fir	B Ar A B Fl	rea
Duct and Pipe loss vel 3 HL Total 10,566 vel 3 HG Total 7,829  Level 4  Run ft. exposed wall A  Run ft. exposed wall B  Ceiling height Floor area Exposed Ceilings A  Exposed Ceilings B  Exposed Ceilings B  Components North Shaded East/West South Existing Windows Skylight	Total HG  Total HG  R-Values Loss 3.55 3.55 3.55 1.99 2.03	10% AL for per room per room x 1.3  Gain 22.93 10.91 22.93 27.35 22.93 20.89 10.90 22.15 10.10 88.23	A B Area A B Fir		A B Area A B Fir	,	A B Area A B B Fir	A B A A B F	A Area A B B B B B B B B B B B B B B B B B B	A B Are A B Fir	1689 1689	A B Area A B Fir	A B Area A B Fir	B Area A B Fir	Gain	B Area A B Fir	Gain	B Area A B Fir	B Ar A B Fl	rea
Duct and Pipe loss vel 3 HL Total 10,566 vel 3 HG Total 7,829  Level 4  Run ft. exposed wall A  Run ft. exposed wall B  Ceiling height Floor area Exposed Ceilings A  Exposed Ceilings A  Exposed Ceilings A  Gross Exp Wall B  Components North Shaded  EastWest  South Existing Windows	Total HG  Total HG  R-Values Loss 3.55 3.55 3.55 1.99 2.03	10%   1L for per room   per room x 1.3   	A B Area A B Fir		A B Area A B Fir	,	A B Area A B B Fir	A B A A B F	A Area A B B B B B B B B B B B B B B B B B B	A B Are A B Fir	1689 1689	A B Area A B Fir	A B Area A B Fir	B Area A B Fir	Gain	B Area A B Fir	Gain	B Area A B Fir	B Ar A B Fl	rea
Duct and Pipe loss vel 3 HL Total 10,566 vel 3 HG Total 7,829  Level 4  Run ft. exposed wall B  Celling height Floor area Exposed Cellings B  Exposed Cellings B  Exposed Cellings B  Components North Shaded EastWest South Existing Windows Skylight Doors Net exposed walls A	Total HG  Total HG  R-Values Loss 3.55 3.55 3.55 1.99 2.03 4.00 17.03 8.50	10%	A B Area A B Fir		A B Area A B Fir	,	A B Area A B B Fir	A B A A B F	A Area A B B B B B B B B B B B B B B B B B B	A B Are A B Fir	1689 1689	A B Area A B Fir	A B Area A B Fir	B Area A B Fir	Gain	B Area A B Fir	Gain	B Area A B Fir	B Ar A B Fl	rea
Duct and Pipe loss vel 3 HL Total 10,566 vel 3 HG Total 7,829  Level 4  Run ft. exposed wall A  Run ft. exposed wall A  Ceiling height Floor area  Exposed Ceilings A  Exposed Ceilings A  Exposed Ceilings A  Gross Exp Wall A  Gross Exp Wall A  Gross Exp Wall B  Components  North Shaded  EastWest  South Existing Windows  Skilght  Doors  Net exposed walls A  Net exposed walls B  Exposed Ceilings A	R-Values Loss 3.55 3.55 3.55 1.99 2.03 4.00 17.03 8.50 59.22	10%   1L for per room   per room x 1.3   Gain   22.93   10.91   22.93   27.35   22.93   20.89   40.90   22.15   4.78   0.65   4.78   0.65   9.58   1.29   1.37   0.64	A B Area A B Fir		A B Area A B Fir	,	A B Area A B B Fir	A B A A B F	A Area A B B B B B B B B B B B B B B B B B B	A B Are A B Fir	1689 1689	A B Area A B Fir	A B Area A B Fir	B Area A B Fir	Gain	B Area A B Fir	Gain	B Area A B Fir	B Ar A B Fl	rea
Duct and Pipe loss vel 3 HL Total 10,566 vel 3 HG Total 7,829  Level 4  Run ft. exposed wall A  Run ft. exposed wall B  Ceiling height Floor area Exposed Ceilings A  Exposed Floors Gross Exp Wall A  Gross Exp Wall B  Components North Shaded East/West South Existing Windows Skylight Doors Net exposed walls A  Net exposed Ceilings A  Net exposed walls A	R-Values Loss 3.55 3.55 3.55 3.55 3.55 3.55 3.55 2.03 4.00 17.03 8.50 59.22 22.86	10%	A B Area A B Fir		A B Area A B Fir	,	A B Area A B B Fir	A B A A B F	A Area A B B B B B B B B B B B B B B B B B B	A B Are A B Fir	1689 1689	A B Area A B Fir	A B Area A B Fir	B Area A B Fir	Gain	B Area A B Fir	Gain	B Area A B Fir	B Ar A B Fl	rea
Duct and Pipe loss veil 3 HL Total 10,566 veil 3 HG Total 7,829  Level 4 Run ft. exposed wall A Run ft. exposed wall B Ceiling height Floor area Exposed Ceilings A Exposed Ceilings B Exposed Ceilings A Gross Exp Wall B Components North Shaded EastWest South Existing Windows Skylight Doors Net exposed walls A Rexposed Ceilings A Exposed Floors	R-Values Loss 3.55 3.55 3.55 3.55 3.55 3.55 3.55 2.03 4.00 17.03 8.50 59.22 22.86	10%   1L for per room   per room x 1.3   Gain   22.93   10.91   22.93   27.35   22.93   20.89   40.90   22.15   4.78   0.65   4.78   0.65   9.58   1.29   1.37   0.64	A B Area A B Fir		A B Area A B Fir	,	A B Area A B B Fir	A B A A B F	A Area A B B B B B B B B B B B B B B B B B B	A B Are A B Fir	1689 1689	A B Area A B Fir	A B Area A B Fir	B Area A B Fir	Gain	B Area A B Fir	Gain	B Area A B Fir	B Ar A B Fl	rea
Duct and Pipe loss vel 3 HL Total 10,566 vel 3 HG Total 7,829  Level 4 Run ft. exposed wall A Run ft. exposed wall B Ceiling height Floor area Exposed Ceilings A Exposed Ceilings A Exposed Ceilings A Gross Exp Wall A Gross Exp Wall A Gross Exp Wall B Components North Shaded EastWest South Existing Windows Skylight Doors Net exposed walls A Net exposed walls A Net exposed walls A Net exposed walls A Sexposed Ceilings A Exposed Ceilings A Exposed Ceilings A Exposed Ceilings A Exposed Floors oundation Conductive Heatloss	R-Values Loss 3.55 3.55 3.55 3.55 3.55 3.55 3.55 2.03 4.00 17.03 8.50 59.22 22.86	10%	A B Area A B Fir		A B Area A B Fir	,	A B Area A B B Fir	A B A A B F	A Area A B B B B B B B B B B B B B B B B B B	A B Are A B Fir	1689 1689	A B Area A B Fir	A B Area A B Fir	B Area A B Fir	Gain	B Area A B Fir	Gain	B Area A B Fir	B Ar A B Fl	rea
Duct and Pipe loss vel 3 HL Total 10,566 vel 3 HG Total 7,829  Level 4  Run ft. exposed wall A Run ft. exposed wall B Ceiling height Floor area Exposed Ceilings A Exposed Ceilings A Exposed Ceilings A Gross Exp Wall A Gross Exp Wall B Components North Shaded EastWest South Existing Windows Skylight Doors Net exposed walls A Net exposed walls A Net exposed walls A Net exposed walls A Exposed Ceilings A Exposed Ceilings A Exposed Ceilings A Exposed Ceilings A Exposed Floors oundation Conductive Heatloss Heat Cain	R-Values Loss 3.55 3.55 3.55 3.55 1.99 2.03 4.00 17.03 8.50 59.22 22.86 29.80	10%	A B Area A B Fir		A B Area A B Fir	,	A B Area A B B Fir	A B A A B F	A Area A B B B B B B B B B B B B B B B B B B	A B Are A B Fir	1689 1689	A B Area A B Fir	A B Area A B Fir	B Area A B Fir	Gain	B Area A B Fir	Gain	B Area A B Fir	B Ar A B Fl	rea
Duct and Pipe loss vel 3 HL Total 10,566 vel 3 HG Total 7,829  Level 4 Run ft. exposed wall A Run ft. exposed wall A Run ft. exposed wall A Exposed Ceilings A Exposed Ceilings A Exposed Ceilings A Exposed Floors Gross Exp Wall A Exposed Ceilings A Exposed Floors coundation Conductive HeatLoss Heat Loss Heat Loss Heat Loss Heat Loss Heat Loss Heat Loss Gain	R-Values Loss 3.55 3.55 3.55 1.99 2.03 4.00 17.03 8.50 22.286 29.80	10%	A B Area A B Fir		A B Area A B Fir	,	A B Area A B B Fir	A B A A B F	A Area A B B B B B B B B B B B B B B B B B B	A B Are A B Fir	1689 1689	A B Area A B Fir	A B Area A B Fir	B Area A B Fir	Gain	B Area A B Fir	Gain	B Area A B Fir	B Ar A B Fl	rea
Duct and Pipe loss vel 3 HL Total 10,566 vel 3 HG Total 7,829    Level 4	R-Values Loss 3.55 3.55 3.55 3.55 3.55 2.03 4.00 17.03 8.50 59.22 22.86 29.80	10%   10%	A B Area A B Fir		A B Area A B Fir	,	A B Area A B B Fir	A B A A B F	A Area A B B B B B B B B B B B B B B B B B B	A B Are A B Fir	1689 1689	A B Area A B Fir	A B Area A B Fir	B Area A B Fir	Gain	B Area A B Fir	Gain	B Area A B Fir	B Ar A B Fl	rea
Duct and Pipe loss veil 3 HL Total 10,566 veil 3 HG Total 7,829  Level 4 Run ft. exposed wall A Run ft. exposed wall A Run ft. exposed wall B Ceiling height Floor area Exposed Ceilings A Exposed Ceilings A Exposed Ceilings A Gross Exp Wall A Gross Exp Wall B Components North Shaded EastWest South Existing Windows Skylight Doors Net exposed walls A Net exposed walls A Net exposed Walls A Net exposed Ceilings A Exposed Ceilings A Exposed Ceilings A Exposed Ceilings A Exposed Floors oundation Conductive Heatloss Heat Conductive Heat Cosi Heat Cain Air Leakage Heat Loss/Cain Case 2	R-Values Loss 3.55 3.55 3.55 3.55 1.99 2.03 4.00 17.03 8.50 59.22 22.86 29.80	10%	A B Area A B Fir		A B Area A B Fir	,	A B Area A B B Fir	A B A A B F	A Area A B B B B B B B B B B B B B B B B B B	A B Are A B Fir	1689 1689	A B Area A B Fir	A B Area A B Fir	B Area A B Fir	Gain	B Area A B Fir	Gain	B Area A B Fir	B Ar A B Fl	rea
Duct and Pipe loss veil 3 HL Total 10,566 veil 3 HG Total 7,829  Level 4 Run ft. exposed wall A Run ft. exposed wall A Run ft. exposed wall A Exposed Ceilings A Exposed Ceilings A Exposed Ceilings A Exposed Floors Gross Exp Wall A Gross Ceilings A Exposed Ceilings A Heat Loss Gross All Conductive Heatloss Heat Loss Heat Loss Heat Loss Gain Air Leakage Heat Loss Gain Loss Gain Case 1 Ventilation Case 2 Case 3	R-Values Loss 3.55 3.55 3.55 3.55 1.99 2.03 4.00 17.03 8.50 59.22 22.86 29.80	10%   10%	A B Area A B Fir		A B Area A B Fir	,	A B Area A B B Fir	A B A A B F	A Area A B B B B B B B B B B B B B B B B B B	A B Are A B Fir	1689 1689	A B Area A B Fir	A B Area A B Fir	B Area A B Fir	Gain	B Area A B Fir	Gain	B Area A B Fir	B Ar A B Fl	rea
Duct and Pipe loss veil 3 HL Total 10,566 veil 3 HG Total 7,829    Level 4	R-Values Loss 3.55 3.55 3.55 3.55 1.99 2.03 4.00 17.03 8.50 59.22 22.86 29.80	10%	A B Area A B Fir		A B Area A B Fir	,	A B Area A B B Fir	A B A A B F	A Area A B B B B B B B B B B B B B B B B B B	A B Are A B Fir	1689 1689	A B Area A B Fir	A B Area A B Fir	B Area A B Fir	Gain	B Area A B Fir	Gain	B Area A B Fir	B Ar A B Fl	rea
Duct and Pipe loss vel 3 HL Total 10,566 vel 3 HG Total 7,829  Level 4  Run ft. exposed wall A  Run ft. exposed wall B  Ceiling height Floor area Exposed Ceilings B  Exposed Floors Gross Exp Wall A  Gross Exp Wall A  Gross Exp Wall B  Components North Shaded East/West South Existing Windows Skylight Doors Net exposed walls A  Net exposed Ceilings B  Exposed Floors oundation Conductive HeatLoss tal Conductive Heat Cain Air Leakage Heat Loss/Cain Air Leakage Case 1  Ventilation Case 2  Case 3  Heat Gain People Appliances Loads Duct and Pipe loss	R-Values Loss 3.55 3.55 3.55 3.55 3.55 2.03 4.00 17.03 8.50 59.22 2.86 29.80 0	10%   10%	A B Area A B Fir		A B Area A B Fir	,	A B Area A B B Fir	A B A A B F	A Area A B B B B B B B B B B B B B B B B B B	A B Are A B Fir	1689 1689	A B Area A B Fir	A B Area A B Fir	B Area A B Fir	Gain	B Area A B Fir	Gain	B Area A B Fir	B Ar A B Fl	rea
Duct and Pipe loss vel 3 HL Total 10,566 vel 3 HG Total 7,829  Level 4 Run ft. exposed wall A Run ft. exposed wall A Run ft. exposed wall B Ceiling height Floor area Exposed Ceilings A Exposed Ceilings A Exposed Ceilings A Gross Exp Wall A Gross Exp Wall A Gross Exp Wall B Components North Shaded East/West South Existing Windows Skylight Doors Net exposed walls A Net exposed walls A Net exposed Walls A Exposed Ceilings A Exposed Floors oundation Conductive Heatloss Heat Conductive Heat Coss Heat Gain Heat Coss Heat Gain People Case 2 Case 3 Heat Gain People Appliances Loads	R-Values Los: 3.55 3.55 3.55 3.55 1.99 2.03 4.00 17.03 8.50 59.22 22.86 29.80 0 x 1 = .25 perce	10%	A B Area A B Fir		A B Area A B Fir	,	A B Area A B B Fir	A B A A B F	A B Area A B B	A B Are A B Fir	1689 1689	A B Area A B Fir	A B Area A B Fir	B Area A B Fir	Gain	B Area A B Fir	Gain	B Area A B Fir	B Ar A B Fl	rea

I review and take responsibility for the design work and am qualified in the appropriate category as an "other designer" under 32964

36,384 Total Heat Loss btu/h Total Heat Gain 20,186 btu/h Division C subsection 3.2.5. of the Building Code. Individual BCIN:

Name Met

David DaCosta

Package A1



2985 Drew Road, Suite 202, Mississauga, Ontario L4T 0A4 Tel: 905-671-9800 Fax: 647-494-9643 e-mail dave@gtadesigns.ca

Project # Layout # Page 6 PJ-00204 JB-04870

Treview and take responsibility for the design work and am qualified in the appropriate category as an "other designer" under Division C subsection 3.2.5. of the Building Code. Individual BCIN: 32964 David DaCosta

Package:
Package A1
Project: Bradford Model: TH-6E Alt WOB

RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

For systems serving one dwelling unit & conforming to the Ontario Building Code, O.reg 332/12

# Location of Installation Lot # Plan # Township Bradford Roll # Permit # Address

	<b>-</b>	
	Builder	
Name		
	Bayview Wellington	
Address		
City		
Tel	Fax	

Installing Contractor							
Name							
Address							
City							
Tel	Fax						

		Combustion Appliances 9.32.3.1(1)
a)	Х	Direct vent (sealed combustion) only
b)		Positive venting induced draft (except fireplaces)
c)		Natural draft, B-vent or induced draft fireplaces
d)		Solid fuel (including fireplaces)
e)		No combustion Appliances
		• •

Heating System									
	Х	Forced air							
		Non forced air							
		Electric space heat (if over 10% of heat load)							

		House Type 9.32.3.1(2)
I	Х	Type a) or b) appliances only, no solid fuel
Ш		Type I except with solid fuel (including fireplace)
Ш		Any type c) appliance
IV		Type I or II either electric space heat
Other		Type I, II or IV no forced air

		System Design Option
1		Exhaust only / forced air system
2		HRV WITH DUCTING / forced air system
3	Х	HRV simplified connection to forced air system
4		HRV full ducting/not coupled to forced air system
		Part 6 design

Total Ventilation Capacity 9.32.3.3(1)											
Bsmt & Master Bdrm Other Bedrooms Bathrooms & Kitchen Other rooms		@ @ @	21.2 10.6 10.6 10.6 Total	cfm cfm cfm	42.4 31.8 42.4 31.8 148.4	cfm					

Principal Ventilation Capacity 9.32.3.4(1)								
Master bedroom Other bedrooms	1 3	_	31.8 15.9 Total		31.8 47.7 79.5			

Principal Exhaust Fan Capacity							
Make	Model	Location					
LifeBreath	RNC155	Base					
132 cfm		Sones	or Equiv.				

Heat Recovery Ventilator						
Make LifeBreath						
Model RNC155						
	132 cfm high	80 cfm low				
Sensible efficiency @ -25 deg C 71%						
Sensible efficiency @ 0 deg C 75%						

Note: Installer to balance HRV/ERV to within 10 percent of PVC

Supplemental Ventilation Capacity						
Total ventilation capacity Less principal exhaust capacity REQUIRED supplemental vent. Capacity	148.4 79.5 68.9 cfm					

Supplemental Fana 0.22.2.5								
•	Supplemental Fans 9.32.3.5.							
Location	cfm	Model	Sones					
Ens	50	XB50	0.3					
Bath	50	XB50	0.3					
all fans HVI listed	Make	Broan	or Equiv.					
			The state of the s					

Designer Certification  I hereby certify that this ventilation system has been designed in accordance with the Ontario Building Code.					
Name	David D	aCosta			
Signature	Mane	166			
HRAI#	5190	BCIN#	32964		
Date	December	12, 2023	WEI		

## ♦GTA\DESIGNS

#### **Energy Efficiency Design Summary: Prescriptive Method**

(Building Code Part 9, Residential)

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Project # PJ-00204 Layout # JB-04870

2985 Drew Road, Suite 202, Mississauga, Ontario L4T 0A4 Tel: 905-671-9800 Fax: 647-494-9643 e-mail dave@gtadesigns.ca

This form is used by a designer to demonstrate that the energy efficiency design of a house complies with the building code using the prescriptive method described in Subsection 3.1.1. of SB-12. This form is applicable where the ratio of gross area of windows/sidelights/skylights/glazing in doors and sliding glass doors to the gross area of peripheral walls is not more than 22%.

			For use by Princi	pal Authority				
Application No:		Model/Certification Number						
A. Project Information								
Building number, street name					Unit number	Lot/Con		
		TH	I-6E Alt WOB					
Municipality Bradford			Postal code	Reg. Plan number /	other description	11		
B. Prescriptive Compliance [indica	ate the bu	ilding cod	e compliance packa	age being employed	in the house design]			
SB-12 Prescriptive (input design pa	ckage):		<u>Pack</u>	kage A1	Table:	3.1.1.2.A		
C. Project Design Conditions								
Climatic Zone (SB-1):		Heat. E	quip. Efficiency		Space Heating F	uel Source		
Zone 1 (< 5000 degree days)		√ ≥ 92	2% AFUE	✓ Gas	☐ Propane		Solid Fuel	
Zone 2 (≥ 5000 degree days)		_ ≥8	4% < 92% AFUE	Oil	☐ Electric		Earth Energy	
Ratio of Windows, Skylights & Glas	s (W, S	& G) to \	Wall Area		Other Building Ch	aracteristic	s	
4 (1)(1) 004.00 (2) 0400.0	112			Log/Post&Bear	m	Grade [	ICF Basement	
Area of Walls = $324.22$ m <sup>2</sup> or $3489.9$	ft²	W,S &	G % = <u>9%</u>	☐ Slab-on-groun	d 😽 Walkout Ba	sement		
				☑ Air Conditionin	g     Combo Unit	t		
Area of W, S & G = <u>27.963</u> m <sup>2</sup> or <u>301.0</u>	ft²	Utilize V	Vindow ☐ Yes	☐ Air Sourced Heat Pump (ASHP)				
		Averaging    Output  Output  Description  Output  D						
D. Building Specifications [provide	values a	nd ratings	of the energy effic	iency components p	roposed]			
Energy Efficiency Substitutions					· · ·			
☐ ICF (3.1.1.2.(5) & (6) / 3.1.1.3.(5))								
Combined space heating and domestic	water he	ating syst	ems (3.1.1.2(7) / 3.	.1.1.3.(7))				
☐ Airtightness substitution(s)		Table 3.1	.1.4.B Required	d: Permitted Substitution:				
Airtightness test required		Table 3.1	1.4.C Required		Permitted Substitution:			
(Refer to Design Guide Attached)		Table 3. I	Required	:	Permitted S	Substitution:		
Building Component	Mini	nimum RSI/R-Values or		Ru	ilding Component		Efficiency Ratings	
Building Component	N	Maximum U-Value <sup>1</sup>		Building Component Enic			Linciency Ratings	
Thermal Insulation	Non	ninal	Effective	Windows & Do	ors Provide U-Value <sup>(1)</sup> o	r ER rating		
Ceiling with Attic Space	6	0		Windows/Sliding	Glass Doors		1.6	
Ceiling without Attic Space	3	31		Skylights			2.8	
Exposed Floor	3	31		Mechanicals				
Walls Above Grade	22			Heating Equip.(A	FUE)		96%	
Basement Walls		20.0ci		HRV Efficiency (S	SRE% at 0°C)		75%	
Slab (all >600mm below grade)	7.7	x		DHW Heater (EF	)		0.80	
Slab (edge only ≤600mm below grade)	10		DWHR (CSA B55.1 (min. 42% efficiency))			#Showers 2		
Slab (all ≤600mm below grade, or heated)	1	0		Combined Heatin	ng System			
(1) U value to be provided in either W/(m²·K) or Bt	u/(h·ft·F) b	out not bot	h.					
E. Designer(s) [name(s) & BCIN(s), if	applicable	e, of perso	on(s) providing infor	mation herein to sub	stantiate that design mee	ts building co	de]	
Name			BCIN	Signatu				
David DaCosta			32	964	Mane	146 <del>-</del>	<del>{ - c</del>	
Form authorized by OHRA OROA LMCRO Revised December 1, 20					•			

Form authorized by OHBA, OBOA, LMCBO. Revised December 1, 2016.





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Page 8

Project # PJ-00204 Layout # JB-04870

Packa Projec	age:				System: System 1  Model: TH-6E Alt WOB			Layout #	JB-04870						
					Air	Leakag			ations	3		5= /			
			Building A	ir Leakage	Heat Loss						Building	Air Leakag	e Heat Gai	in	
		В	LRairh	Vb	HL^T	HLleak				В	LRairh	Vb	HG^T	HG Leak	
		0.018	0.345	21620	81.4	10929			0.0	018	0.084	21620	11	360	
												Lev	vels		-
		Air Lea	kage Heat I	Loss/Gain I	/lultiplier 1	Table (Sectio	n 11)				1	2	3	4	
	Level	Level Factor (LF)	Building Air	Level Cor Heat			kage He Vultiplie				(LF)	(LF)	(LF)	(LF)	
	Level 1	0.5	All	806	65	ı	0.6775	H		E	1.0	0.6	0.5	0.4	
	Level 2 Level 3	0.3 0.2	10929	825 775			0.3973			_		0.4	0.3 0.2	0.3 0.2	
	Level 4	0.2		0			0.0000						0.2	0.2	
						Air I ea	kage He	at Gain				I evels thi	s Dwelling		
	D.III D	HG LI		- 0.41N	360	7 200	0.0366			Ī			3		
	BUILD	ING CONDUC	JIIVE HEA	I GAIN	9841					L					
Ventilation Calculations											_				
	Ventilation Heat Loss					Ventilation Heat Gain				_					
Vent		Ventilation Heat Loss				Ventilation Heat Gain				Vent					
>	C	PVC	HL^T	(1-E) HRV		bvent				VC	HG^T		vent	1	>
	1.08	79.5	81.4	0.16	1	118	l	L	1.1 7	9.5	11	Э.	44	<u></u>	
_			Case									Case 1			-
		Ventilat	ion Heat Los	s (Exhaust or	ily Systems)				'	Ventila	tion Heat G	ain (Exhaust	Only Syste	ms)	_
_			Case 1 - Ex	haust Only					Case 1 -	- Exha	ust Only	Mult	iplier	1	_
Case	Level	LF	HLbvent	LVL Co		Multiplier			HGbve		944	0.	10	1	Case
Ca	Level 1 Level 2	0.5 0.3		806 825		0.07 0.04		L	Buildi	ng	9841				Ca
	Level 3	0.2	1118	779	92	0.03									
	Level 4	0		0		0.00									
			Case	e <b>2</b>				Case 2							
2		Ventilati	on Heat Loss	(Direct Duct	ed Systems	:)			٧	/entilat	tion Heat G	ain (Direct D	ucted Syste	ms)	
				Multi	nlier	1						Mult	iplier	1	
Case	С	HL^T	(1-E) HRV	14.					С		HG^T		.88	1	Case
	1.08   81.4   0.16   14.07					L	1.08	}	11						
	Case 3				Case 3										
8		Ventila	ition Heat Lo	ss (Forced Ai	r Systems)					Ventil	ation Heat	Gain (Forced	d Air System	is)	<u></u> κ
Se			HLb	vent	Mul	tiplier						Vent He	eat Gain	Multiplie	Se
Case	Total Vent	ilation Load	11	18	0	0.05			HGbve 944		HG*1.3 1	9	44	0.10	Case
	F	oundation	Conducti	ve Heatle	eve I ave	11			1700	1	<b>N</b> atts	FS	801	Btu/h	
		- unuation	- John Gull	ve Healic	JJ LEVE				1700	'	railo		W I	Dtu/II	
	F	oundation	Conducti	ive Heatlo	ss Leve	1 2				1	Watts			Btu/h	

## **Envelope Air Leakage Calculator**

Supplemental tool for CAN/CSA-F280

Weather Station	Description
Province:	Ontario
Region:	Bradford ▼
Weather Station Location:	Open flat terrain, grass
Anemometer height (m):	10
Local Shiel	ding
Building Site:	Suburban, forest
Walls:	Heavy ▼
Flue:	Heavy ▼
Highest Ceiling Height (m):	7.16
Building Confi	guration
Type:	Semi-Detached
Number of Stories:	Two
Foundation:	Shallow
House Volume (m <sup>3</sup> ):	612.26
Air Leakage/Ve	entilation
Air Tightness Type:	Present (1961-) (ACH=3.57)
Overtone DDT Dates	ELA @ 10 Pa. 322.44 cm <sup>2</sup>
Custom BDT Data:	3.57 ACH @ 50 Pa
Mechanical Ventilation (L/s):	Total Supply: Total Exhaust:
	39.75
Flue #:	#1 #2 #3 #4
Diameter (mm):	0 0 0 0
Heating Air Leakage Rate (ACH/H):	0.345
Cooling Air Leakage Rate (ACH/H):	0.084



#### **Residential Foundation Thermal Load Calculator**

Supplemental tool for CAN/CSA-F280

Weat	Weather Station Description								
Province:		Ontario							
Region:		Bradford ▼							
Site Description									
Soil Conductivity:		High conductivity: moist soil ▼							
Water Table:		Normal (7-10 m, 23-33 Ft) ▼							
Fou	ındatio	on Dimensions							
Floor Length (m):	17.06								
Floor Width (m):	3.97								
Exposed Perimeter (m):	27.43								
Wall Height (m):	2.59								
Depth Below Grade (m):	0.91	Insulation Configuration							
Window Area (m²):	0.56								
Door Area (m²):	1.95								
	Radi	ant Slab							
Heated Fraction of the Slab:	0								
Fluid Temperature (°C):	33								
	Desig	n Months							
Heating Month	1								
	Founda	ation Loads							
Heating Load (Watts):		1605							

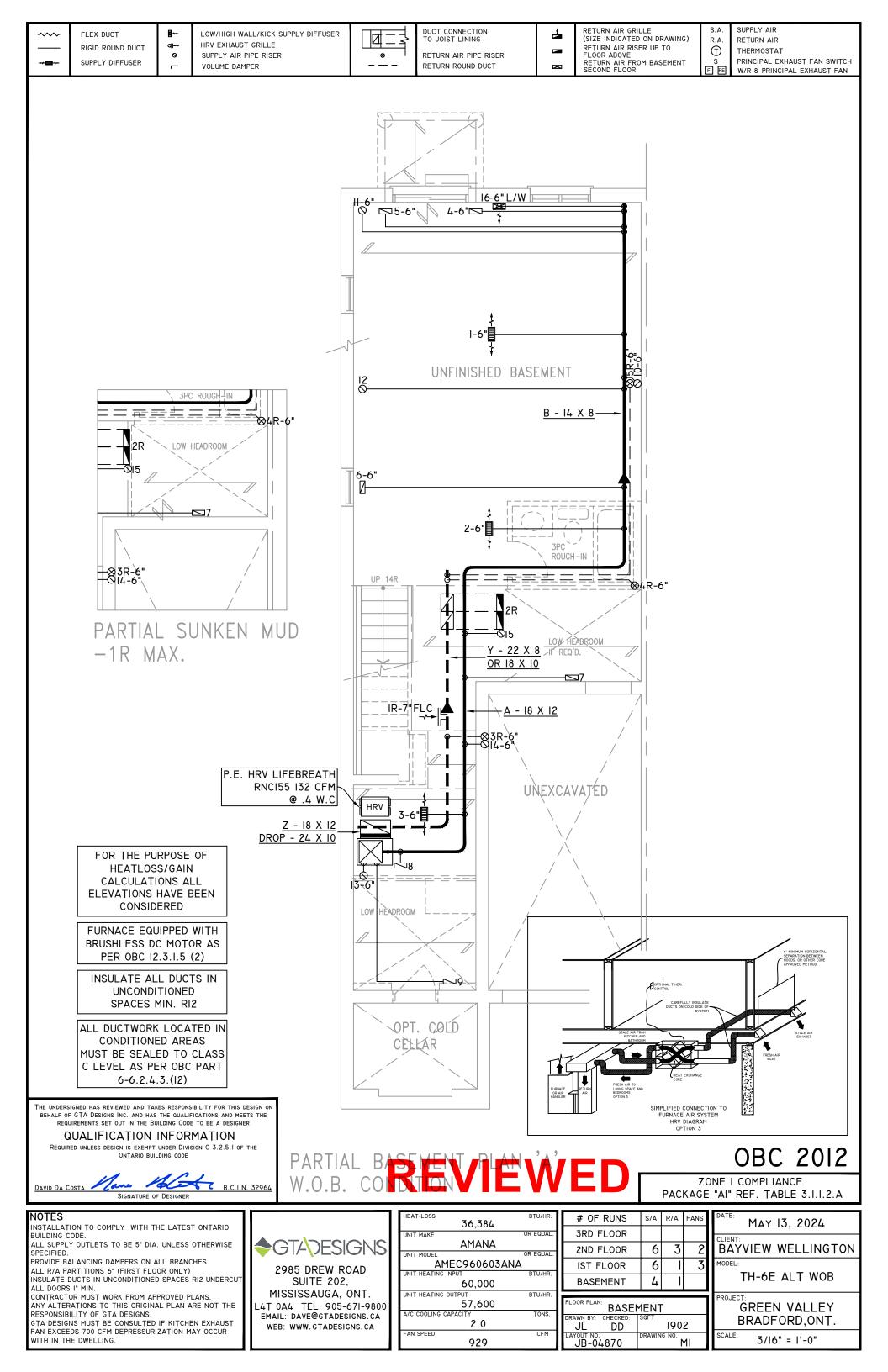


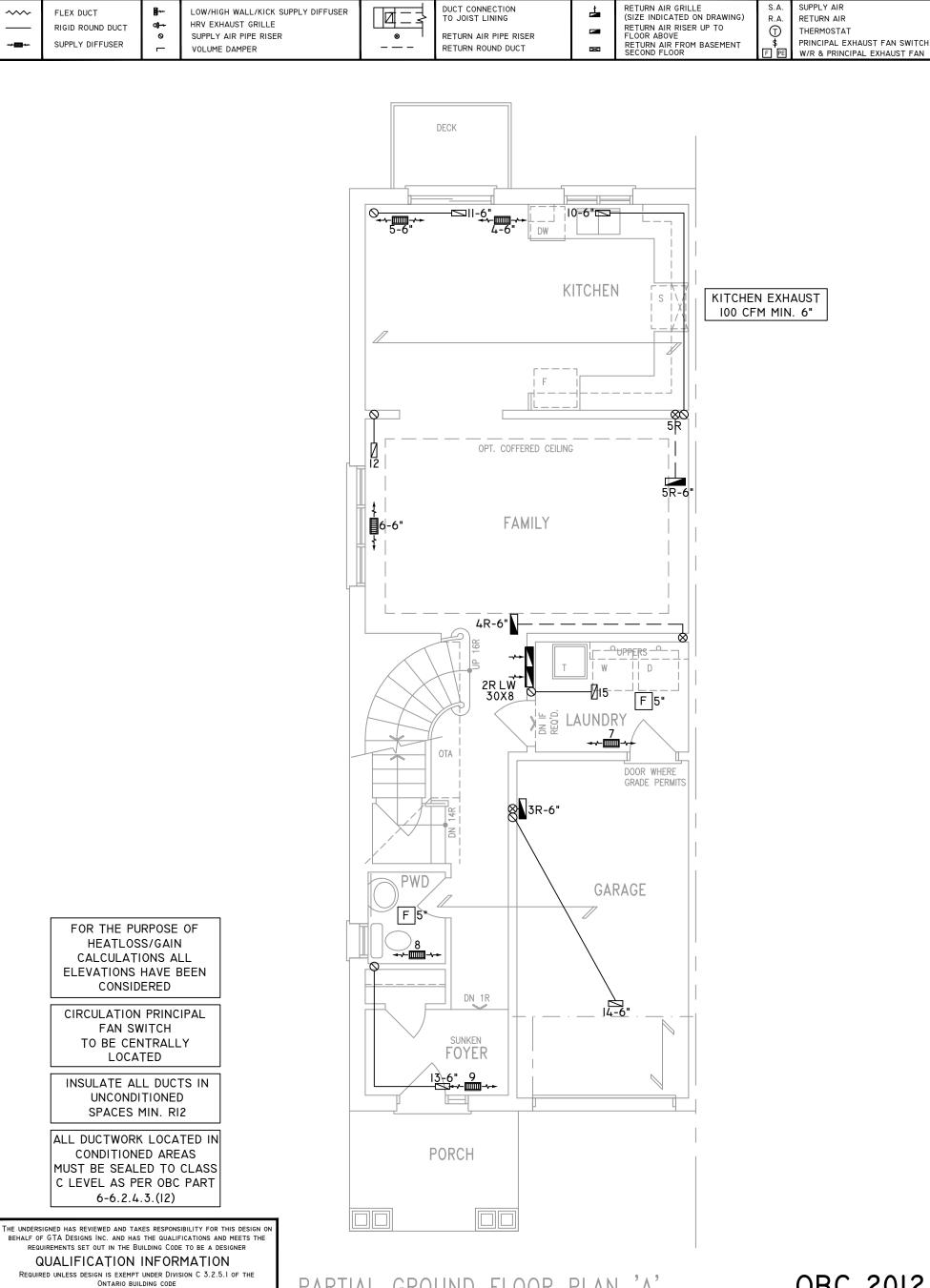
#### **Residential Slab on Grade Thermal Load Calculator**

Supplemental tool for CAN/CSA-F280

Weather Station Description							
Province:	Ontario						
Region:		Bradford ▼					
	Site D	escription					
Soil Conductivity:		High conductivity: moist soil ▼					
Water Table:		Normal (7-10 m, 23-33 Ft)					
Floor Dimensions							
Length (m):	5.79						
Width (m):	0.61						
Exposed Perimeter (m):	6.40	Insulation Configuration					
	Radi	ant Slab					
Heated Fraction of the Slab:	0						
Fluid Temperature (°C):	33						
	Desig	n Months					
Heating Month 1							
	Founda	ation Loads					
Heating Load (Watts): 95							







DUCT CONNECTION

lane 1866 B.C.I.N. 32964

PARTIAL GROUND FLOOR PLANW.O.B. CONCINON EV

OBC 2012

ZONE I COMPLIANCE PACKAGE "AI" REF. TABLE 3.1.1.2.A

SUPPLY AIR

INSTALLATION TO COMPLY WITH THE LATEST ONTARIO

BUILDING CODE. ALL SUPPLY OUTLETS TO BE 5" DIA. UNLESS OTHERWISE

PROVIDE BALANCING DAMPERS ON ALL BRANCHES. ALL R/A PARTITIONS 6" (FIRST FLOOR ONLY) INSULATE DUCTS IN UNCONDITIONED SPACES RI2 UNDERCUT ALL DOORS I" MIN.

CONTRACTOR MUST WORK FROM APPROVED PLANS.
ANY ALTERATIONS TO THIS ORIGINAL PLAN ARE NOT THE RESPONSIBILITY OF GTA DESIGNS.

GTA DESIGNS MUST BE CONSULTED IF KITCHEN EXHAUST FAN EXCEEDS 700 CFM DEPRESSURIZATION MAY OCCUR WITH IN THE DWELLING.

## GTADESIGNS

2985 DREW ROAD SUITE 202,

MISSISSAUGA, ONT. L4T 0A4 TEL: 905-671-9800 EMAIL: DAVE@GTADESIGNS.CA WEB: WWW.GTADESIGNS.CA

UNIT MAKE	OR EQUAL.
AMANA	
UNIT MODEL	OR EQUAL.
AMEC960603ANA	-
UNIT HEATING INPUT	BTU/HR.
60,000	
UNIT HEATING OUTPUT	BTU/HR.
57,600	
A/C COOLING CAPACITY	TONS.
2.0	
FAN SPEED	CFM
929	

36,384

# OF RUNS	S/A	R/A	FANS	Г
3RD FLOOR				ŀ
2ND FLOOR	6	3	2	ľ
IST FLOOR	6	I	3	Ī
BASEMENT	4	- 1		ı
FLOOR PLAN:			1	Ī
FLUUR FLAN:				

	_		_		
TH-6		I	4	MENT	BASE
PROJECT:					
				l:	OOR PLAN
GRE		OR	FLO	GROUND	(
BRAI		• • •	SQFT		
	2	190		DD	JL
SCALE:		G NO.	DRAWIN		YOUT NO.
3/	<b>12</b>	1		4870	JB-04

MAY 13, 2024
CLIENT: BAYVIEW WELLINGTON
MODEL:
TH-6E ALT WOB

EN VALLEY DFORD,ONT. 3/16" = 1'-0"

FLEX DUCT RIGID ROUND DUCT SUPPLY DIFFUSER

LOW/HIGH WALL/KICK SUPPLY DIFFUSER HRV EXHAUST GRILLE **a**)-+ 0 SUPPLY AIR PIPE RISER VOLUME DAMPER



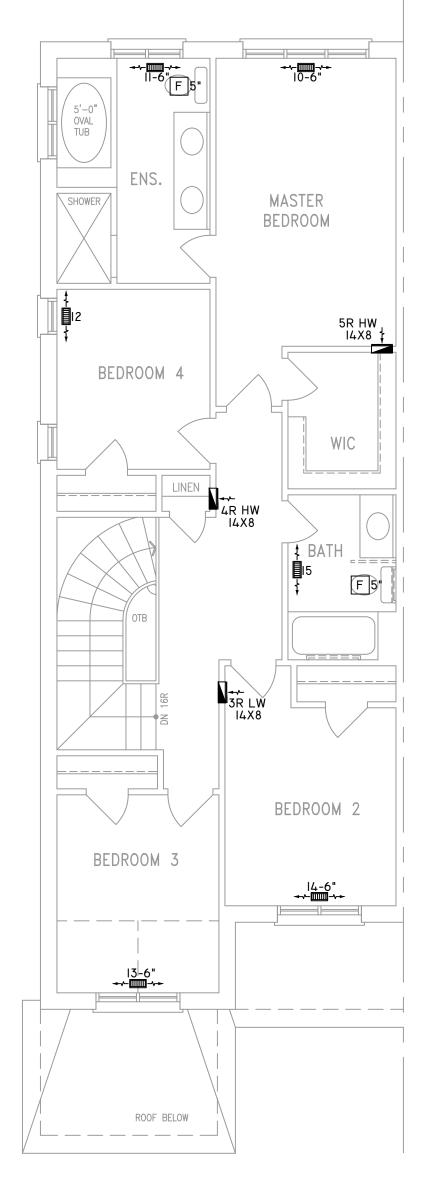
DUCT CONNECTION TO JOIST LINING RETURN AIR PIPE RISER RETURN ROUND DUCT

4  $\boxtimes$ 

RETURN AIR GRILLE (SIZE INDICATED ON DRAWING) RETURN AIR RISER UP TO FLOOR ABOVE RETURN AIR FROM BASEMENT SECOND FLOOR

R.A 1

SUPPLY AIR RETURN AIR THERMOSTAT PRINCIPAL EXHAUST FAN SWITCH W/R & PRINCIPAL EXHAUST FAN



FOR THE PURPOSE OF HEATLOSS/GAIN CALCULATIONS ALL **ELEVATIONS HAVE BEEN** CONSIDERED

INSULATE ALL DUCTS IN UNCONDITIONED SPACES MIN. RI2

ALL DUCTWORK LOCATED IN CONDITIONED AREAS MUST BE SEALED TO CLASS C LEVEL AS PER OBC PART 6-6.2.4.3.(12)

THE UNDERSIGNED HAS REVIEWED AND TAKES RESPONSIBILITY FOR THIS DESIGN ON BEHALF OF GTA DESIGNS INC. AND HAS THE QUALIFICATIONS AND MEETS THE REQUIREMENTS SET OUT IN THE BUILDING CODE TO BE A DESIGNER

QUALIFICATION INFORMATION

Required unless design is exempt under Division C 3.2.5.1 of the  $$\operatorname{\textsc{Ontario}}$$  building code

## SECOND REPREMED

OBC 2012

ZONE I COMPLIANCE PACKAGE "AI" REF. TABLE 3.1.1.2.A

INSTALLATION TO COMPLY WITH THE LATEST ONTARIO BUILDING CODE. ALL SUPPLY OUTLETS TO BE 5" DIA. UNLESS OTHERWISE

SPECIFIED. PROVIDE BALANCING DAMPERS ON ALL BRANCHES. ALL R/A PARTITIONS 6" (FIRST FLOOR ONLY)

INSULATE DUCTS IN UNCONDITIONED SPACES RI2 UNDERCUT ALL DOORS I" MIN. CONTRACTOR MUST WORK FROM APPROVED PLANS. ANY ALTERATIONS TO THIS ORIGINAL PLAN ARE NOT THE

RESPONSIBILITY OF GTA DESIGNS. GTA DESIGNS MUST BE CONSULTED IF KITCHEN EXHAUST FAN EXCEEDS 700 CFM DEPRESSURIZATION MAY OCCUR WITH IN THE DWELLING.



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HEAT-LOSS	BTU/HR.
36,384	·
UNIT MAKE	OR EQUAL.
AMANA	
UNIT MODEL	OR EQUAL.
AMEC960603AN	
UNIT HEATING INPUT	BTU/HR.
60,000	
UNIT HEATING OUTPUT	BTU/HR.
57,600	
A/C COOLING CAPACITY	TONS.
2.0	
FAN SPEED	CFM
929	

MAY 13, 2024	FANS	R/A	S/A	# OF RUNS	
CLIENT:				3RD FLOOR	3RD I
BAYVIEW WELLINGTON	2	3	6	2ND FLOOR	2ND I
MODEL:	3		6	IST FLOOR	IST F
TH-6E ALT WOB			4	BASEMENT	BASE
PROJECT:				OD DLAN.	FLOOR PLAN
GREEN VALLEY		0R	FLO	SECOND	FLOOR PLAN
BRADFORD,ONT.	2	100	SQFT	WN BY: CHECKED:	DRAWN BY:

M3

DD

JB-04870

	THE CE AL TIMES
ı I	TH-6E ALT WOB
200	PROJECT: GREEN VALLEY
OOR	
1902	BRADFORD,ONT.
ING NO.	SCALE: 3/16" = 1'-0"

FLEX DUCT RIGID ROUND DUCT SUPPLY DIFFUSER

LOW/HIGH WALL/KICK SUPPLY DIFFUSER HRV EXHAUST GRILLE **a**]---0 SUPPLY AIR PIPE RISER VOLUME DAMPER



DUCT CONNECTION TO JOIST LINING RETURN AIR PIPE RISER

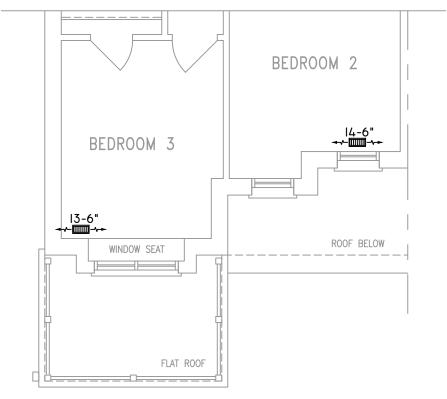
RETURN ROUND DUCT

4  $\boxtimes$ 

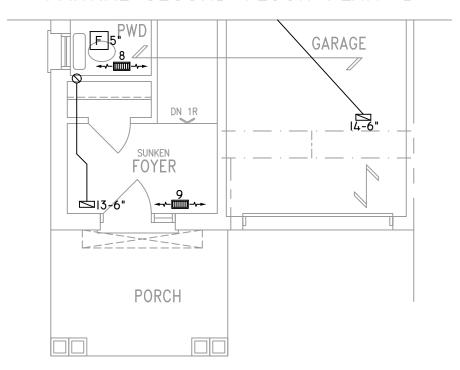
RETURN AIR GRILLE (SIZE INDICATED ON DRAWING) RETURN AIR RISER UP TO FLOOR ABOVE RETURN AIR FROM BASEMENT SECOND FLOOR

R.A 1

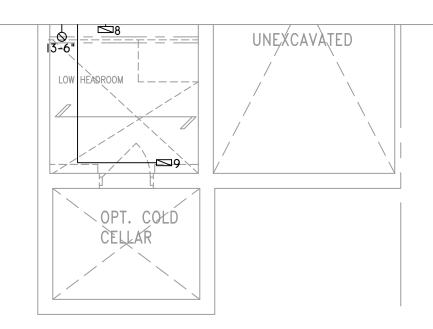
SUPPLY AIR RETURN AIR THERMOSTAT PRINCIPAL EXHAUST FAN SWITCH W/R & PRINCIPAL EXHAUST FAN



### PARTIAL SECOND FLOOR PLAN 'B'



### PARTIAL GROUND FLOOR PLAN 'B'



PARTIAL BASEMENT PLAN 'B'

THE UNDERSIGNED HAS REVIEWED AND TAKES RESPONSIBILITY FOR THIS DESIGN ON BEHALF OF GTA DESIGNS INC. AND HAS THE QUALIFICATIONS AND MEETS THE REQUIREMENTS SET OUT IN THE BUILDING CODE TO BE A DESIGNER

QUALIFICATION INFORMATION REQUIRED UNLESS DESIGN IS EXEMPT UNDER DIVISION C 3.2.5.1 OF THE ONTARIO BUILDING CODE

OBC 2012

ZONE I COMPLIANCE PACKAGE "AI" REF. TABLE 3.1.1.2.A

INSTALLATION TO COMPLY WITH THE LATEST ONTARIO BUILDING CODE. ALL SUPPLY OUTLETS TO BE 5" DIA. UNLESS OTHERWISE

PROVIDE BALANCING DAMPERS ON ALL BRANCHES.

ALL R/A PARTITIONS 6" (FIRST FLOOR ONLY) INSULATE DUCTS IN UNCONDITIONED SPACES RIZ UNDERCUT ALL DOORS I" MIN.

CONTRACTOR MUST WORK FROM APPROVED PLANS. ANY ALTERATIONS TO THIS ORIGINAL PLAN ARE NOT THE RESPONSIBILITY OF GTA DESIGNS.

GTA DESIGNS MUST BE CONSULTED IF KITCHEN EXHAUST FAN EXCEEDS 700 CFM DEPRESSURIZATION MAY OCCUR WITH IN THE DWELLING.



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36,384	
UNIT MAKE	OR EQUAL.
AMANA	
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AMEC960603ANA	
UNIT HEATING INPUT	BTU/HR.
60,000	
UNIT HEATING OUTPUT	BTU/HR.
57,600	
A/C COOLING CAPACITY	TONS.
2.0	
FAN SPEED	CFM
929	

# OF RUNS	S/A	R/A	FANS	
3RD FLOOR				
2ND FLOOR	6	3	2	
IST FLOOR	6	I	3	
BASEMENT	4	I		
				: 1
FLOOR PLAN:				

LOOR PLAN		
		PLAN(S)
RAWN BY:	CHECKED:	SQFT
JL	DD	1902
AYOUT NO.	/. Q7A	DRAWING NO.

DATE:	MAY	13,	2024	
CLIENT: BAY	VIEW	WE	LLING	ΓΟΝ
MODEL:				
-	TH-6F	ΙΔ	T WOB	

PROJECT **GREEN VALLEY** BRADFORD, ONT. 3/16" = 1'-0"