

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 Sonom	na 4		Lot:	
SD25	-4		Lot/con.	
Municipality Bradford	Postal code	Plan number/ other description		
B. Individual who reviews and takes responsibility for design	gn activities	1		
Name David DaCosta		Firm	gtaDesigns Inc.	
Street address 2985 Drew Roa	d, Suite 202		Unit no.	t/con.
' '	Postal code	Province	E-mail	
Mississauga Telephone number	L4T 0A4 Fax number	Ontario	dave@gtadesigr Cell number	<u>15.Ca</u>
(905) 671-9800		7) 494-9643	(416) 268-682	0
C. Design activities undertaken by individual identified in S	ection B. [Bu	iilding Code Table	3.5.2.1 of Division C]	
☐ House ☑ HVAC – H	louse		☐ Building Structural	
☐ Small Buildings ☐ Building Se			☐ Plumbing – House	
☐ Large Buildings ☐ Detection,	Lighting and Po	wer	☐ Plumbing – All Buildings	
☐ Complex Buildings ☐ Fire Protect	ction		☐ On-site Sewage Systems	
Description of designer's work Mod	del Certification	n	Project #:	PJ-00204
			Layout #:	JB-04398
Heating and Cooling Load Calculations Main Air System Design Alternate	Х	Builder Project	Bayview Wellington Green Valley East	
Residential mechanical ventilation Design Summary Area Sq ft:	2168		Sonoma 4	
Residential System Design per CAN/CSA-F280-12		Model	SD25-4	
Residential New Construction - Forced Air		SB-12	Package A1	
D. Declaration of Designer				
David DaCosta	declare that (choose one as appr	opriate):	
(print name)				
☐ I review and take responsibility for to 3.2.4 Division C of the Building Cool	the design work	on behalf of a firm re	gistered under subsection OF BRADFORD WEST GWI	LLIMBURY
classes/categories.	ie. i am quaime	-0		
Individual BCIN:		-	S EXAMINED NO BUILDING CODE APPLIE	-9
Firm BCIN:			2018-10-22	
Individual BCIN:	329	64		
Basis for exemp	tion from registr	ration:	Division C 3.2.4.1. (4)	
☐ The design work is exempt from the	e registration an	d qualification require	ments of the Building Code.	
Basis for exemp	tion from registr	ration and qualification	:	
I certify that:				
The information contained in this schedule is true to the best of n	ny knowledge.			
I have submitted this application with the knowledge and consent	of the firm.			
February 15, 2018		Mare 14	bata	
Date		Signature of D	esigner	

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.

and all other persons who are exempt from qualifications under Subsections 3.2.4. and 3.2.5.of Division C.

Schedule 1 does not require to be completed a holder of a license, temporay license, or a certificate of authorization, issed by the

Ontario Associstion 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.



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

Page 2

Heat loss and gain calcul	lation 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-04398
Building	Location
Address (Model): SD25-4	Site: Green Valley East
Model: Sonoma 4	Lot:
City and Province: Bradford	Postal code:
Calculations	s based on
Dimensional information based on:	VA3 Design Sept/2016
Attachment: Semi	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: 2168
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	ain 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



Builder:

Total Effective Length

Adjusted Pressure

Duct Size Round

Inlet Size

Inlet Size

Trunk

203

0.06

8.0

FLC

9x6

191

0.06

12.0

30

206

0.06

8.0

14

301

0.04

6.0

287

0.04

6.0

8

x

14

263

0.04

6.0

14

50

0.24

50

0.24

Bayview Wellington

Date:

Air System Design

SB-12 Package A1 February 15, 2018

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.

of the Building Code.

Project #

Page 3 PJ-00204

Sonoma 4 System 1 Mane Alex SD25-4 JB-04398 Project: **Green Valley East** Model: Individual BCIN: David DaCosta Layout # DESIGN LOAD SPECIFICATIONS AIR DISTRIBUTION & PRESSURE FURNACE/AIR HANDLER DATA: BOILER/WATER HEATER DATA: A/C UNIT DATA: Level 1 Net Load 12,651 btu/h **Equipment External Static Pressure** 0.5 "w.c. Amana Make Туре Amana 2.0 Ton AMEC96-0603BNA Level 2 Net Load 12,502 btu/h **Additional Equipment Pressure Drop** 0.225 "w.c. Model Model Cond.--2.0 Level 3 Net Load 11.535 btu/h Available Design Pressure 0.275 "w.c. Input Btu/h 60000 Input Btu/h Coil 2.0 Output Btu/h 57600 Level 4 Net Load 0 btu/h Return Branch Longest Effective Length 300 ft Output Btu/h 36 688 htm/h " W C Min.Output Btu/h ΔWH R/A Plenum Pressure 0 138 "w c 0.50 Total Heat Loss E.s.p. Blower DATA: Total Heat Gain 21,521 btu/h S/A Plenum Pressure 0.14 "w.c. Water Temp deg. F. W2 40,357 Btuh. Heating Air Flow Proportioning Factor 0.0319 cfm/btuh AFUE Blower Speed Selected: Blower Type ECM Combo System HL + 10% 96% 25590 ft³ (Brushless DC OBC 12.3.1.5.(2)) **Building Volume Vb** Cooling Air Flow Proportioning Factor 0.0447 cfm/btuh Aux. Heat 1.118 Btuh. R/A Temp SB-12 Package Package A1 Heating Check 1170 cfm Ventilation Load 70 dea. F. Cooling Check 963 cfm Ventilation PVC 79.5 cfm S/A Temp 116 deg. F. Supply Branch and Grill Sizing Diffuser loss Temp. Rise>>> 1170 cfm Cooling Air Flow Rate 0.01 "w.c. 46 deg. F. Selected cfm> 963 cfm Level 1 Level 2 S/A Outlet No. 2 5 6 10 Room Use BASE BASE BASE BASE KIT KIT LIV DIN PWD FOY Btu/Outlet 3163 3163 3163 3163 1996 1996 1905 2794 673 3139 **Heating Airflow Rate CFM** 101 101 101 101 64 64 61 89 21 100 Cooling Airflow Rate CFM 12 12 12 109 109 106 71 15 69 12 **Duct Design Pressure** 0.13 **Actual Duct Length** 32 26 21 42 35 42 21 39 40 50 **Equivalent Length** 90 70 70 120 70 70 70 70 70 70 70 70 70 70 80 100 80 180 140 110 70 70 70 70 70 70 70 70 Total Effective Length 122 96 91 162 70 70 70 70 70 70 70 70 115 142 101 219 180 160 70 70 70 70 70 70 70 70 70 70 Adjusted Pressure 0.11 0.14 0.14 0.08 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.11 0.09 0.13 0.06 0.07 0.08 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 **Duct Size Round** 6 6 **Outlet Size** 4x10 4x10 4x10 4x10 4x10 4x10 4x10 4x10 3x10 4x10 Trunk D D С Level 3 Level 4 S/A Outlet No. 12 15 16 17 19 11 13 18 14 Room Use MAST MAST FNS RFD 4 RATH BFD 3 RFD 2 BFD 2 I AUN Btu/Outlet 1653 1653 973 1208 618 2331 1478 1478 144 **Heating Airflow Rate CFM** 53 53 31 39 20 74 47 47 5 Cooling Airflow Rate CFM 66 22 84 55 55 66 44 15 30 **Duct Design Pressure** 0.13 35 **Actual Duct Length** 42 66 46 38 72 61 **Equivalent Length** 125 130 120 100 125 110 160 170 130 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 167 165 70 70 70 Total Effective Length 196 166 138 167 182 219 231 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 Adjusted Pressure 0.08 0.07 0.08 0.09 0.08 0.07 0.06 0.06 0.08 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 5 Outlet Size 4x10 3x10 3x10 4x10 4x10 3x10 3x10 3x10 3x10 4x10 Trunk D C C D Return Branch And Grill Sizing Grill Pressure Loss 0.02 "w.c **Return Trunk Duct Sizing** Supply Trunk Duct Sizing R/A Inlet No. 1R 2R 3R 4R 5R 6R 7R 8R 9R 10R 11R Trunk CFM Press. Round Rect. Size Trunk CFM Press. Round Rect. Size Inlet Air Volume CFM 202 498 155 105 105 105 **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 1170 0.04 18.0 24x12 700 0.06 13.5 20x8 16x10 Drop 58 119 n na 13 26 41 61 57 z 1170 0.04 18 0 R 7.0 848 2 v 7 **Actual Duct Length** 30v10 24y12 **Equivalent Length** 190 165 165 240 230 205 50 50 50 50 50 Υ 315 0.04 11.0 14x8 10x10 C 480 0.06 12.0 16x8 12x10

50

0.24

50

0.24

50

0.24

Х

w

v

s R

Q

SITE COPY

0.07

0.07

11.5

7.5

14x8

8x8

12x10

470

147



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:	Bay	yview Well	lington			Date:			Februa	ry 15, 2	2018							Wea	ather Data	a	Bradford	44	-9.4	86 22	48.2					Page 4
								-			So	noma 4					9	ystem	1											Project #	PJ	-00204
2012 OBC		Project:	Gr	een Valley	/ East		. N	lodel: _			S	D25-4						ystem	•	He	at Loss ^	T 81.4 deg	j. F	Ht gain ^T	11	deg. F	GTA:	2168		Layout #	JB	-04398
	Level 1					BASE																										
Run	ft. exposed wall A				106				Α		Α			Α			,	Α		Α		Α		Α		Α		Α			Α	
Run	nft. exposed wall B					В					В			В				В		В		В		В		В		В			В	
	Ceiling height				4.1			4.1			4.1 A			4.1 A			4.1			4.1 AG		4.1 AG		4.1 AG		4.1 AG		4.1 AG		4.1		
	Floor area Exposed Ceilings A				908	Area A		,	Area N		A	rea		Ar A	ea			Area A		Area A		Are A	a	Area A		Area A		Ar A	ea		Area A	
	Exposed Ceilings A					В		,			В			В				В		В		В		В		В		В			В	
-	Exposed Floors					Fir			- Flr		F			FI	r			Fir		Flr		Fir		Flr		Fir		Fli	r		Fir	
	Gross Exp Wall A				430																											
	Gross Exp Wall B																															
	Components			Gain	ľ	Loss	Gain	ď	oss G	ain		oss (Gain	Lo	oss G	ain	Ļ	Loss (Gain	Loss	Gain	Los	s Gain	Loss	Gain	Loss	Gain	Lo	ss Ga	iin	Loss (Gain
	North Shaded East/West	3.55 3.55		10.91 27.35	13	298	356																									
	South	3.55		20.89	6	138																										
	WOB Windows	3.15	25.84	28.32																												
	Skylight	2.03		88.23																												
	Doors	4.00	20.35	2.75		427																										
	et exposed walls A et exposed walls B	21.12 14.49	3.85 5.62	0.52 0.76	390		203																									
E	Exposed Ceilings A	59.22		0.64																												
	Exposed Ceilings B	22.86	3.56	1.66																												
	Exposed Floors	29.80	2.73	0.17																												
	ductive Heatloss	On Grade	() or Abo			5277 6140																										
Total Conductive	Heat Loss Heat Gain					6140	742																									
Air Leakage	Heat Loss/Gain		1.0116	0.0404		6211	30																									
	Case 1		0.09	0.09																												
Ventilation	Case 2		14.07	11.88																												
	Case 3	х	0.05	0.09		300	69																									
	Heat Gain People Appliances Loads	1 =.25 p	nercent	239 3632																												
	Duct and Pipe loss	1 =.20	Jeroen	10%																												
Level 1 HL Total	12,651		otal HL for			12651																										
Level 1 HG Total	1,093	Tota	I HG per ro	om x 1.3	L		1093	L			L						L															
	Level 2					KIT			LIV			DIN			PWD			FOY														
	n ft. exposed wall A				35	A R		13 /			30 A B			6 A			22 /	A B		A B		A B		A B		A B		A B			A B	
Kun	n ft. exposed wall B Ceiling height				10.0	В		10.0	•		ь 10.0			10.0			11.0	В		10.0		10.0		10.0		10.0		10.0		10.0	ь	
	Floor area				294	Area		245	Area		267 A	rea		33 Ar	ea			Area		Area		Are	a	Area		Area		Ar	ea		Area	
E	Exposed Ceilings A					A					Α			Α				A		Α		Α		Α		Α		Α			Α	
E	Exposed Ceilings B					В					В			В				В		В		В		В		В		В			В	
	Exposed Floors				350	Flr		130	-Ir		300 F	lr		60	r		242	Fir		Flr		Fir		Flr		Fir		Fli	r		Fir	
	Gross Exp Wall A Gross Exp Wall B				350			130			300			60			242															
	Components	R-Values	Loss (Gain		Loss	Gain	ı	.oss G	ain	L	oss (Gain	Lo	ss G	ain	ı	Loss (Gain	Loss	Gain	Los	s Gain	Loss	Gain	Loss	Gain	Lo	ss Ga	iin	Loss (Gain
	North Shaded	3.55	22.93	10.91																												
	East/West	3.55		27.35	55	1261	1504										24	550	656													
	South Existing Windows	3.55	22.93 40.90	20.89				36	825	752	24	550	501	9	206	188	10	229	209													
	Skylight	1.99 2.03		22.15 88.23																												
	Doors	4.00	20.35	2.75													21	427	58													
	let exposed walls A	17.03	4.78	0.65	295	1410	191	94	449	61	276	1319	178	51	244	33	187	894	121													
	et exposed walls B	8.50	9.58	1.29																												
	Exposed Ceilings A Exposed Ceilings B	59.22 22.86	1.37 3.56	0.64 1.66																												
_	Exposed Floors	29.80	2.73	0.17																												
Foundation Cond	ductive Heatloss			X																												
Total Conductive	Heat Loss					2671			1275			1870			450			2101														
Air Leakage	Heat Gain		0.445	0.046		4400	1695		500	813		000	680		204	221		000	1044													
ин сеакаде	Heat Loss/Gain Case 1		0.4454	0.0404		1190	69		568	33		833	27		201	9		936	42													
Ventilation	Case 1		14.07	11.88																												
	Case 3	x	0.05	0.09		131	157		62	75		91	63		22	20		103	97													
	Heat Gain People			239																												
	Appliances Loads	1 =.25 p	percent	3632	2.0		1816	1.0		908	0.5		454																			7
Level 2 HL Total	Duct and Pipe loss 12,502	T	otal HL for	10% per room		3992			1905			2794			673			3139														
Level 2 HG Total	10,688	Tota	I HG per ro	om x 1.3			4857			2377			1591			325		- 700	1537												T	
					_			_	•		_		,			,	_		,		-						•					
																						her designer								00.40	Package	

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

Total Heat Loss 36,688 btu/h Total Heat Gain 21,521 btu/h Division C subsection 3.2.5. of the Building Code. Individual BCIN:

Man 16Cot 2

David DaCosta

SB-12 Package Package A1



36,688

21,521

btu/h

btu/h

Total Heat Loss

Total Heat Gain

Heatloss/Gain Calculations CSA-F280-12

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e-mail dave@gtadesigns.ca

																			e-man da	ve@gtadesig	ns.ca								
		Builder:	Ba	yview Well	lington		D	ate:			uary 15,				_			V	Veather Dat	a Bı	radford	44	-9.4	86 22	48.2				Page 5
2012 OBC		Project:	G	reen Valley	/ East		Мо	odel:			Sonoma 4 SD25-4			_		Systen	1 1		Heat Loss	^T 81.4 deg. l	=	Ht gain ^T	11	deg. F	GTA:	2168	Proj Lay		PJ-00204 JB-04398
	Level 3 of t. exposed wall A of t. exposed wall B				31 A B	MAST		10 A B	NS	12	BED 4 A B		BA 6 A B	тн	24	BED 3	i	12 A B	BED 2	LAU A B	JN	A B		A B		A B		A B	
Kun	Ceiling height				8.0			8.0		8.0	_		8.0		8.0	_		10.0		8.0		8.0		8.0		8.0		8.0	
_	Floor area				331 Are	ea		103 Area			Area		75 Area			6 Area		220 Ar	rea	78 Area		Area		Area		Area		Area	
	Exposed Ceilings A Exposed Ceilings B				331 A B			103 A B		108	В		75 A B		130	6 A B		220 A B		78 A B		A B		A B		A B		A B	
	Exposed Floors				Flr			Flr			Flr		Fir			4 Flr		147 Fli	r	Flr		Flr		Flr		Fir		Flr	
	Gross Exp Wall A Gross Exp Wall B				248			80		96			48		192	2		120											
	Components	R-Values I	_oss	Gain	Lo	ss G	ain	Loss	Gain	_ ,	Loss	Gain	Loss	Gain	_	Loss	Gain	Lo	oss Gain	Loss	Gain	Loss	Gain	Loss	Gain	Loss	Gain	Loss	Gain
	North Shaded East/West	3.55 3.55	22.93 22.93	10.91 27.35	45	1032	1231								26	6 596	711	40	917 109	04									
	South	3.55	22.93		45	1032	1231	11 :	252 23	0 16	367	334	7 1	61 146		8 183		40	917 10:	94									
	Existing Windows	1.99	40.90	22.15																									
	Skylight Doors	2.03 4.00	40.10 20.35	88.23 2.75																									
Ne	et exposed walls A	17.03	4.78	0.65	203	970	131	69 :	30 4	5 80	382	52	41 1	96 26	158	8 755	102	80	382	52									
	et exposed walls B Exposed Ceilings A		9.58 1.37	1.29 0.64	331	455	212	103	42 6	6 108	148	69	75 1	03 48	136	6 187	87	220	302 1	41 78 10	07 50								
	Exposed Ceilings B	22.86	3.56	1.66	331	400		103	- ·	100	140	03		00 40	100	107	O,		302	70 10	,, ,,								
	Exposed Floors	29.80	2.73	0.17												4 11	1	147	402	25									
Foundation Cond Total Conductive	Heat Loss					2457			24		898		4	60		1733			2004	10	07								
	Heat Gain						1574		34			455		221	I		1068		13		50								
Air Leakage	Heat Loss/Gain Case 1		0.2964	0.0404		728	64		214 1	4	266	18	1	36 9	,	514	43		594	53 3	32 2								
Ventilation	Case 2		14.07	11.88																									
	Case 3 Heat Gain People	х	0.05	0.09 239	2	120	146 478		35 3	1	44	42 239		22 20		85	99 239	1	98 1:	21 39	5 5								
	Appliances Loads	1 =.25 p	ercent	3632	- 1		470					235				1	233	- 1	-	0.5	454								
1 10111 7 (1	Duct and Pipe loss			10%							4000			40		2004		1	260 1										
Level 3 HL Total Level 3 HG Total	11,535 9,740			per room oom x 1.3	1	3306	2940)73 50)1	1208	981	6	18 325	,	2331	1884		2955	44	664	ı							
			•			•			•										•		•				•				
	Level 4																												
Run Run	nft. exposed wall A nft. exposed wall B				A B			A B			A B		A B			A B		A B		A B		A B		A B		A B		A B	
	Ceiling height																												
-	Floor area Exposed Ceilings A				Are A	ea		Area A			Area A		Area A			Area A		Ar A		Area A		Area A		Area A		Area A		Area A	
	xposed Ceilings B				В			В			В		В			В		В		В		В		В		В		В	
	Exposed Floors Gross Exp Wall A				Fir			Flr			Flr		Flr			Flr		Fli	r	Fir		Fir		Flr		Fir		Fir	
	Gross Exp Wall B																												
	Components			Gain	Lo	ss G	ain	Loss	Gain		Loss	Gain	Loss	Gain	_	Loss	Gain	Lo	oss Gain	Loss	Gain	Loss	Gain	Loss	Gain	Loss	Gain	Loss	Gain
	North Shaded East/West	3.55 3.55	22.93 22.93	10.91 27.35																									
	South	3.55	22.93	20.89																									
	Existing Windows Skylight	1.99 2.03	40.90 40.10	22.15 88.23																									
	Doors	4.00	20.35	2.75																									
	et exposed walls A		4.78	0.65																									
	et exposed walls B Exposed Ceilings A		9.58 1.37	1.29 0.64																									
	xposed Ceilings B	22.86	3.56	1.66																									
Foundation Cond	Exposed Floors ductive Heatloss	29.80	2.73	0.17																									
Total Conductive	Heat Loss																												
Air Leakage	Heat Gain Heat Loss/Gain		0.0000	0.0404																									
	Case 1		0.00	0.09																									
Ventilation	Case 2		14.07	11.88																								7	
<u> </u>	Case 3 Heat Gain People	x	0.05	0.09 239																									
	Appliances Loads	1 =.25 p	ercent	3632																									
Level 4 HL Total	Duct and Pipe loss 0	To	tal HI for	10% per room																			_						
Level 4 HG Total	0			om x 1.3																									
																				ther designer" i								3-12 Packa	

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. of the Building Code. Individual BCIN:

Mane Alexa

David DaCosta

SB-12 Package Package A1



System Design Option Exhaust only / forced air system

HRV WITH DUCTING / forced air system

Part 6 design

HRV simplified connection to forced air system

HRV full ducting/not coupled to forced air system

1 2

3 Х

4

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

Project # Layout #

David DaCosta

Page 6 PJ-00204 JB-04398

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. of the Building Code. Individual BCIN: 32964

Package: Project:	Package A1 Bradford	Model:	SD25-4	
	RESIDENTIAL MECHANICAL	VENTILATION DES	SIGN SUMMARY	
	For systems serving one dwelling unit & con	forming to the Ontario Buildin	g Code, O.reg 332/12	
	Location of Installation	Total V	entilation Capacity 9.32.3.3	(1)
Lot #	Plan #	Bsmt & Master Bdrm	2 @ 21.2 cfm	
Township	Bradford	Other Bedrooms Bathrooms & Kitchen	3 @ 10.6 cfm	31.8 cfm
Roll #	Permit #	Other rooms	4 @ 10.6 cfm Total	
Address			Total	
	D. II Lo	Principal	Ventilation Capacity 9.32.3	.4(1)
Name Address	Builder Bayview Wellington	Master bedroom Other bedrooms	1 @ 31.8 cfm 3 @ 15.9 cfm Total	
City		Poin	-in-l E-l t E-m O-mite	
Tel	Fax	Make	cipal Exhaust Fan Capacity Model	Location
		LifeBreath	RNC155	Base
Name	Installing Contractor	132 cfm		Sones or Equiv.
Address		H	leat Recovery Ventilator	
,		Make	LifeBreath	
City		Model	RNC155	
Tel	Fax	Sensible efficiency @	<u>132</u> cfm high -25 dea C	80 cfm low 71%
	· 	Sensible efficiency @	0 deg C	75%
			lance HRV/ERV to within 10 p	
->	Combustion Appliances 9.32.3.1(1)	Suppl	emental Ventilation Capacit	ty
a) x b) c) d) e)	Direct vent (sealed combustion) only Positive venting induced draft (except fireplaces) Natural draft, B-vent or induced draft fireplaces Solid fuel (including fireplaces) No combustion Appliances	Total ventilation capa Less principal exhaus REQUIRED suppleme	st capacity	159.0 79.5 79.5 cfm
		Su	pplemental Fans 9.32.3.5.	
	Heating System	Location	cfm Model	Sones
X	Forced air Non forced air Electric space heat (if over 10% of heat load)	Ens Bath	50 XB50 50 XB50	0.3 0.3
	House Type 9.32.3.1(2)	all fame 10 /1 Page 1	Mala Brees	an Farris
I X	Type a) or b) appliances only, no solid fuel Type I except with solid fuel (including fireplace)	all fans HVI listed	Make Broan	or Equiv.
	Any type c) appliance		Designer Certification	
IV Other	Type I or II either electric space heat Type I, II or IV no forced air	I hereby certify that the in accordance with the	is ventilation system has beer e Ontario Building Code.	n designed

Designer Certification										
I hereby certify th	I hereby certify that this ventilation system has been designed									
in accordance with the Ontario Building Code.										
Name	Da <mark>vid D</mark>	aCosta	PY							
Signature	Mane	16Cat 0								
HRAI#	5190	BCIN#	32964							
Date	February	15, 2018								

Energy Efficiency Design Summary: Prescriptive Method

(Building Code Part 9, Residential)

Page 7

Project # PJ-00204 Layout # JB-04398

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 Princip	pal Authority						
Application No:					Model/Certificat	ion Nu	mber				
A. Project Information											
Building number, street name			Sonom	a 4			Unit numb	er	Lot/Con		
			SD25-	-4							
Municipality Bradford			Postal cod	de	Reg. Plan numb	oer / oth	ner descrip	tion			
B. Prescriptive Compliance [indica	ite the bu	ilding cod	e complia	nce packa	ige being emplo	yed in	the house	e design]			
SB-12 Prescriptive (input design pa	ckage):			<u>Pack</u>	age A1			Table:	3.1.1.2.	<u>A</u>	
C. Project Design Conditions											
Climatic Zone (SB-1):		Heat. E	quip. Ef	ficiency			Spac	e Heating F	uel Sourc	ce	
✓ Zone 1 (< 5000 degree days)		√ ≥ 92	2% AFUE		☑ Gas	;		Propane		Solid Fuel	
☐ Zone 2 (≥ 5000 degree days)		□ ≥8	34% < 92%	% AFUE	☐ Oil			Electric		Earth Energy	
Ratio of Windows, Skylights & Glas	s (W, S	& G) to \	Wall Are	а			Other	Building Ch	aracteris	tics	
Area of Walls = <u>308.97</u> m ² or <u>3325.7</u>	ft²				☐ Log/Post&	Beam		ICF Above	Grade	☐ ICF Basement	
Area of Walls = 300.97 III- 01 3323.7	11-	W,S &	G % =	10%	☐ Slab-on-g	round		Walkout Ba	sement		
					☑ Air Conditi	oning	П	Combo Unit	t		
Area of W, S & G = <u>30.657</u> m ² or <u>330.0</u>	ft²	Utilize V	Vindow	☐ Yes	☐ Air Source	ed Hea	t Pump (A	(SHP)			
Averaging											
D. Building Specifications [provide	values a	nd ratings	of the en	nergy effici	ency componer	its prop	oosed]				
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	I.1.4.B	Required:				Permitted S	Substitution): 	
Airtightness test required		Table 3.1	1.1.4.C	Required:				Permitted S	Substitution	n:	
(Refer to Design Guide Attached)	_			Required:	_			Permitted S	Substitution	1:	
Building Component		mum RS //aximun				Build	ding Cor	nponent		Efficiency Ratings	
Thermal Insulation	Non	ninal	Effe	ective	Windows &	Doo	rs Provid	e U-Value ⁽¹⁾ o	r ER rating	1	
Ceiling with Attic Space	6	0			Windows/Slic	ding G	lass Doo	rs		1.6	
Ceiling without Attic Space	3	1			Skylights					2.8	
Exposed Floor	3	1			Mechanical	S					
Walls Above Grade	22				Heating Equi	p.(AFL	JE)			96%	
Basement Walls		20.0ci			HRV Efficien	cy (SR	E% at 0°0	C)		75%	
Slab (all >600mm below grade)	2	x			DHW Heater	(EF)				0.80	
Slab (edge only ≤600mm below grade)	1	0			DWHR (CSA	B55.1	(min. 42%	efficiency))		#Showers 2	
Slab (all ≤600mm below grade, or heated)	1	0			Combined He	eating	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) prov	riding infor	mation herein to	subst	antiate tha	at design mee	ts building	code]	
Name				BCIN	Sigr	nature				2	
David DaCosta				329	964		-	Mane	14C=	7	
Form authorized by OHBA, OBOA, LMCBO, Revised December 1, 20	16										



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

Page PJ-00204 Project # JB-04398

Layout #

System 1 Package: Package A1 System: Project: **Bradford** Model: SD25-4

Air Leakage Calculations

Building Air Leakage Heat Loss										
В	LRairh	Vb	HL^T	HLleak						
0.018	0.331	25590	81.4	12422						

	Building Air Leakage Heat Gain											
В	B LRairh Vb HG^T HG Leak											
0.018	0.082	25590	11	413								

Air Leakage Heat Loss/Gain Multiplier Table (Section 11)									
Level	Level	Building	Level Conductive	Air Leakage Heat Loss					
Level	Factor (LF)	Air	Heat Loss	Multiplier					
Level 1	0.5		6140	1.0116					
Level 2	0.3	12422	8366	0.4454					
Level 3	0.2	12422	8381	0.2964					
Level 4	0		0	0.0000					

		Air Leakage Heat Gain
HG LEAK	413	0.0404
BUILDING CONDUCTIVE HEAT GAIN	10215	0.0404

Levels										
1	1 2 3 4									
(LF)	(LF)	(LF)	(LF)							
1.0	0.6	0.5	0.4							
	0.4	0.3	0.3							
·	0.2 0.2									
			0.1							

Levels this Dwelling	
3	

Ventilation Calculations

Ventilation Heat Loss					
Ventilation Heat Loss					
С	PVC	HL^T	(1-E) HRV	HLbvent	
1.08	79.5	81.4	0.16	1118	

Case 1

/ent

Ventilation Heat Gain					
C PVC HG^T		HG^T	HGbvent		
1.1	79.5	11	944		

Ventilation Heat Loss (Exhaust only Systems)

v	entilation	Heat Ga	in (Evha	ust Only	Syster	nc
v	enthation	neat Ga	III (EXIIA	ust Only	Jystei	113

Case 1

Ventilation Heat Gain

Case 1 - Exhaust Only					
Level	LF	HLbvent	LVL Cond. HL	Multiplier	
Level 1	0.5		6140	0.09	
Level 2	0.3	1118	8366	0.04	
Level 3	0.2	1116	8381	0.03	
Level 4	0		0	0.00	
EC7C1 7 0 0.00					

Case 1 - Exh	aust Only	Multiplier
HGbvent	944	0.09
Building	10215	0.09

Case 2

Case 2

Ventilation Heat Loss ((Direct Ducted Systems)
-------------------------	-------------------------

Ventilation Heat Gain	(Direct Ducted Systems)
-----------------------	-------------------------

			Multiplier
С	HL^T	(1-E) HRV	14.07
1.08	81.4	0.16	14.07

١			Multiplier
ĺ	С	HG^T	11.88
ſ	1.08	11	11.00

Case 3

Case 3

Ventilation Heat Loss	Forced Air S	(stams)
ventilation neat Loss	(Forceu Air 3)	stems

Ventilation Heat Gain	(Forced Air Systems)
ventuation neat dam	(i biceu Ali Systeilis)

	HLbvent	Multiplier
Total Ventilation Load	1118	0.05

		Vent Heat Gain	Multiplier
HGbvent	HG*1.3	944	0.09
944	1	344	0.09

5277

Foundation Conductive Heatloss Level 1

1547 Watts

Btu/h

Foundation Conductive Heatloss Level 2

Watts

Btu/h

32964

Envelope Air Leakage Calculator

Supplemental tool for CAN/CSA-F280

Weather Station Description			
Province:	Ontario V		
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):	6.72		
Building Confi	guration		
Type:	Semi-Detached		
Number of Stories:	Two		
Foundation:	Full		
House Volume (m³):	724.71		
Air Leakage/Ve	entilation		
Air Tightness Type:	Present (1961-) (ACH=3.57)		
	ELA @ 10 Pa. 322.44 cm ²		
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):	0.331		
Cooling Air Leakage Rate (ACH/H):	0.082		

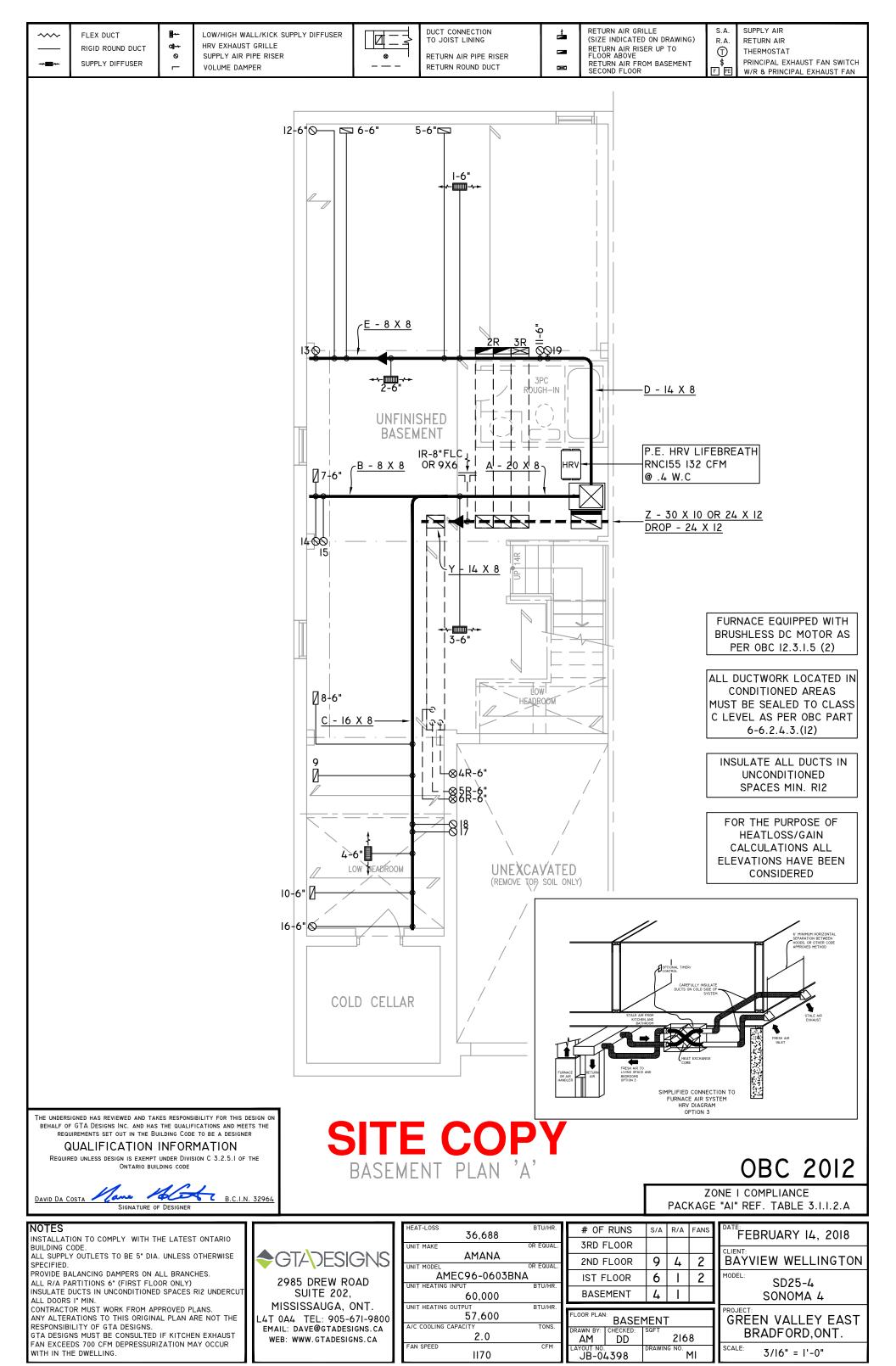


Residential Foundation Thermal Load Calculator

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) ▼		
Fou	ındatio	n Dimensions		
Floor Length (m):	17.40			
Floor Width (m):	4.85			
Exposed Perimeter (m):	32.31			
Wall Height (m):	2.74			
Depth Below Grade (m): 1 Window Area (m²): 1		Insulation Configuration		
Door Area (m²):	1.95			
	Radi	ant Slab		
Heated Fraction of the Slab:	0			
Fluid Temperature (°C): 33				
Design Months				
Heating Month	1			
Foundation Loads				
Heating Load (Watts):		1547		





DUCT CONNECTION TO JOIST LINING LOW/HIGH WALL/KICK SUPPLY DIFFUSER FLEX DUCT j HRV EXHAUST GRILLE al⊶ RIGID ROUND DUCT 0 SUPPLY AIR PIPE RISER RETURN AIR PIPE RISER 8 SUPPLY DIFFUSER **VOLUME DAMPER** RETURN ROUND DUCT II-6"□□ DW KITCHEN KITCHEN EXHAUST OPT. COFFERED CEILING 2R LW | 30X8 LIVING RM. **■**7-6" **[]** 4 00 6R B 15 DINING RM. 8-6 14R 4R-6' 19 F 5 5R-6' **PWD** 6R-6' DN 1R SUNKEN **FOYER** 10-6" GARAGE **\$**16-6¹ **△**17 **≥**18 **PORCH** SITE COPY GROUND FLOOR PLAN 'A' REQUIREMENTS SET OUT IN THE BUILDING CODE TO BE A DESIGNER QUALIFICATION INFORMATION Required unless design is exempt under Division C 3.2.5.I of the ONTARIO BUILDING CODE

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

100 CFM MIN. 6"

SUPPLY AIR R.A 1

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

CIRCULATION PRINCIPAL FAN SWITCH TO BE CENTRALLY

LOCATED

ALL DUCTWORK LOCATED IN CONDITIONED AREAS MUST BE SEALED TO CLASS C LEVEL AS PER OBC PART

INSULATE ALL DUCTS IN UNCONDITIONED SPACES MIN. RI2

6-6.2.4.3.(12)

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

THE UNDERSIGNED HAS REVIEWED AND TAKES RESPONSIBILITY FOR THIS DESIGN ON BEHALF OF GTA DESIGNS INC. AND HAS THE QUALIFICATIONS AND MEETS THE

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 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.



2985 DREW ROAD SUITE 202, MISSISSAUGA, ONT.

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

HEAT-LOSS	BTU/HR.
36,688	
•	
UNIT MAKE	OR EQUAL.
AMANA	
UNIT MODEL	OR EQUAL.
AMEC96-0603B	NA
UNIT HEATING INPUT	BTU/HR.
60,000	
UNIT HEATING OUTPUT	BTU/HR.
57,600	
A/C COOLING CAPACITY	TONS.
2.0	
FAN SPEED	CFM
1170	

# OF RUNS	S/A	R/A	FANS	I
3RD FLOOR				
2ND FLOOR	9	4	2	
IST FLOOR	6	_	2	
BASEMENT	4	-		

GROUND FLOOR 2168 AΜ DD DRAWING NO M2 JB-04398

FEBRUARY 14, 2018 **BAYVIEW WELLINGTON** MODEL: SD25-4 SONOMA 4

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

RETURN AIR GRILLE (SIZE INDICATED ON DRAWING) DUCT CONNECTION TO JOIST LINING SUPPLY AIR FLEX DUCT LOW/HIGH WALL/KICK SUPPLY DIFFUSER 4 RETURN AIR R.A HRV EXHAUST GRILLE RETURN AIR RISER UP TO FLOOR ABOVE RETURN AIR FROM BASEMENT SECOND FLOOR RIGID ROUND DUCT ₫~ 1 THERMOSTAT 0 RETURN AIR PIPE RISER SUPPLY AIR PIPE RISER 8 PRINCIPAL EXHAUST FAN SWITCH SUPPLY DIFFUSER **VOLUME DAMPER** RETURN ROUND DUCT W/R & PRINCIPAL EXHAUST FAN 12-6" 11-6" MASTER BEDROOM MASTER BEDROOM **ENSUITE** WIC 3R HW 13 **ENSUITE** 14X8 F]5" (F)5 AUNDRY F 5" BEDROOM 4 BEDROOM 4 14 OPT. SECOND FLOOR W/ ALT. ENSUITE LAYOUT 15 F5" BATH RAILING $4RH\vec{W}$ I4X8 5R LW_ 14X8 6R LW BEDROOM 3 BEDROOM 2 16-6" VAULTED CEILING **-**~-17 --------

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

INSULATE ALL DUCTS IN UNCONDITIONED SPACES MIN. RI2

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

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.I of the ONTARIO BUILDING CODE

SITE COPY SECOND FLOOR PLAN 'A'

ROOF BELOW

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 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.



2985 DREW ROAD SUITE 202,

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

HEAT-LOSS	BTU/HR.
36,688	
UNIT MAKE	OR FQUAL.
AMANA	on Edone.
UNIT MODEL	OR EQUAL.
AMEC96-0603B	NA
UNIT HEATING INPUT	BTU/HR.
60,000	
UNIT HEATING OUTPUT	BTU/HR.
57,600	
A/C COOLING CAPACITY	TONS.
2.0	
FAN SPEED	CFM
1170	

# OF RUNS	S/A	R/A	FANS	Ī
3RD FLOOR				
2ND FLOOR	9	4	2	
IST FLOOR	6	1	2	1
BASEMENT	4	-		
FLOOR PLAN: SECOND FLOOR				
DRAWN BY: CHECKED:	SQFT			

2168

M3

AM DD

YOUT NO. JB-04398

ROOF BELOW

FEBRUARY 14, 2018 BAYVIEW WELLINGTON MODEL: SD25-4 SONOMA 4

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

FLEX DUCT
RIGID ROUND DUCT
SUPPLY DIFFUSER

LOW/HIGH WALL/KICK SUPPLY DIFFUSER

HRV EXHAUST GRILLE

SUPPLY AIR PIPE RISER

VOLUME DAMPER

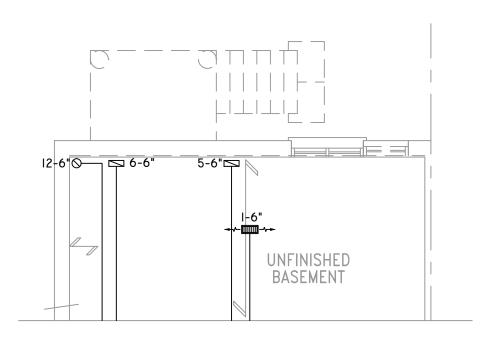


DUCT CONNECTION
TO JOIST LINING

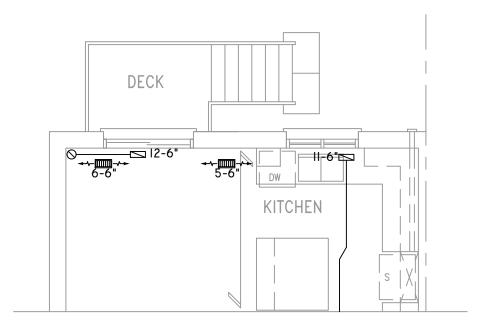
RETURN AIR PIPE RISER
RETURN ROUND DUCT

RETURN AIR GRILLE (SIZE INDICATED ON DRAWING) RETURN AIR RISER UP TO FLOOR ABOVE RETURN AIR FROM BASEMENT SECOND FLOOR S.A. R.A. T

SUPPLY AIR
RETURN AIR
THERMOSTAT
PRINCIPAL EXHAUST FAN SWITCH



PARTIAL BASEMENT PLAN
9R OR MORE W.O.D. CONDITION



PARTIAL GROUND FLOOR PLAN 9R OR MORE W.O.D. CONDITION

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

DAVID DA COSTA Mane 1865 B.C.I.N. 32964

SITE COPY

OBC 2012

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

NOTES

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.

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



2985 DREW ROAD SUITE 202,

MISSISSAUGA, ONT. L4T 0A4 TEL: 905-671-9800 email: dave@gtadesigns.ca web: www.gtadesigns.ca

36,688	BTU/HK.
UNIT MAKE	OR EQUAL.
AMANA	
UNIT MODEL	OR EQUAL.
AMEC96-0603BI	NA
UNIT HEATING INPUT	BTU/HR.
60,000	
UNIT HEATING OUTPUT	BTU/HR.
57,600	
A/C COOLING CAPACITY	TONS.
2.0	
FAN SPEED	CFM
1170	

-				
# OF RUNS	S/A	R/A	FANS	
3RD FLOOR				
2ND FLOOR	9	4	2	
IST FLOOR	6	-	2	
BASEMENT	4	_		
FLOOR PLAN:				
PARTIAL PLAN(S)				
DRAWN BY: CHECKED: SOFT				

AM DD

JB-04398

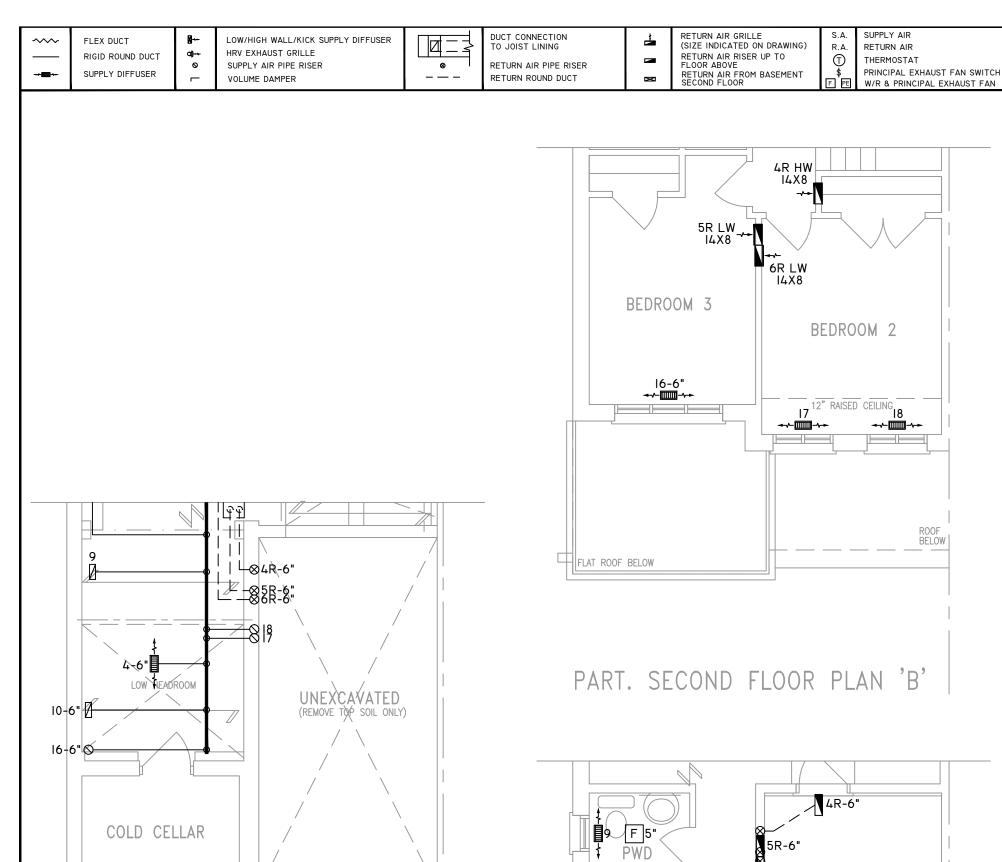
2168

M4

FEBRUARY 14, 2018	
CLIENT: BAYVIEW WELLINGTO	Ν
MODEL: SD25-4	
SONOMA 4	
PROJECT: GREEN VALLEY EAS	 Т

BRADFORD, ONT.

3/16" = 1'-0"



6R-6" DN 1R FOYER 10-6" GARAGE **₩**16-6' **₾** 17 **≥**18 **PORTICO**

PART. BASEMENT PLAN 'B'&'C'

PART. GROUND FLOOR PLAN 'B'

SITE COPY

OBC 2012

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

DAVID DA COSTA

INSTALLATION TO COMPLY WITH THE LATEST ONTARIO

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.I of the

ONTARIO BUILDING CODE

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.



2985 DREW ROAD SUITE 202, MISSISSAUGA, ONT.

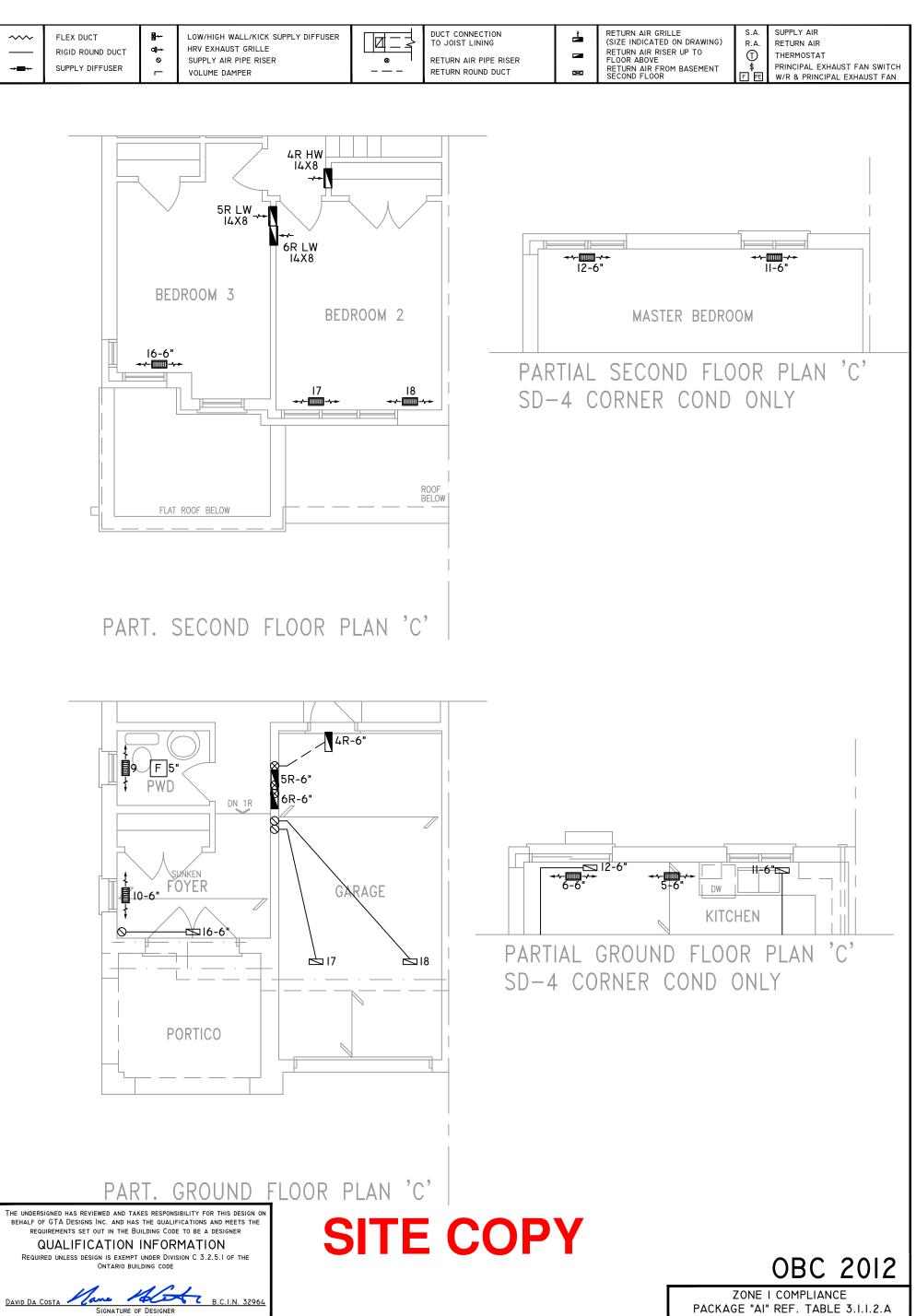
L4T 0A4 TEL: 905-671-9800 EMAIL: DAVE@GTADESIGNS.CA WEB: WWW.GTADESIGNS.CA

HEAT-LOSS	BTU/HR.
36,688	
UNIT MAKE	OR EQUAL.
AMANA	
UNIT MODEL	OR EQUAL.
AMEC96-0603BI	NA
UNIT HEATING INPUT	BTU/HR.
60,000	
UNIT HEATING OUTPUT	BTU/HR.
57,600	
A/C COOLING CAPACITY	TONS.
2.0	
FAN SPEED	CFM
1170	

BAYVIEW WELLINGTON
MODEL: SD25-4
SONOMA 4
GREEN VALLEY EAST BRADFORD,ONT.
CONF

3/16" = 1'-0"

FEBRUARY 14, 2018



NOTES

INSTALLATION TO COMPLY WITH THE LATEST ONTARIO BUILDING CODE.
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1170	

# OF RUNS	S/A	R/A	FANS	
3RD FLOOR				
2ND FLOOR	9	4	2	
IST FLOOR	6	-	2	
BASEMENT	4	-		
FLOOR PLAN: PARTIAI	ΡΙΔΝ	J(S)		

AΜ

JB-04398

DD

2168

M6

FEBRUARY 14, 2018

CLIENT:
BAYVIEW WELLINGTON

MODEL:
SD25-4
SONOMA 4

PROJECT:
GREEN VALLEY EAST

BRADFORD, ONT.

3/16" = 1'-0"