

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:	
	S42-21		Lot/con.	
Municipality Bradford	Postal code	Plan number/ other description		
B. Individual who reviews and takes responsibility for o	design activities	1		
Name David DaCosta		Firm	gtaDesigns Inc.	
Street address 2985 Drew	Road, Suite 202		Unit no.	Lot/con.
Municipality	Postal code	Province	E-mail hvac@gtades	igne ea
Mississauga Telephone number	Fax number	Ontario	Cell number	<u>igris.ca</u>
(905) 671-9800				
C. Design activities undertaken by individual identified	in Section B. [Bu	ilding Code Tabl	e 3.5.2.1 of Division C]	
☐ House ☒ HVA(C – House		☐ Building Structural	
☐ Small Buildings ☐ Buildi	ng Services		☐ Plumbing – House	
1	ction, Lighting and Po	wer	☐ Plumbing – All Buildings	3
g	Protection		On-site Sewage System	
Description of designer's work	Model Certification	n	Project #:	PJ-00041
Heating and Cooling Load Calculations	Main X	Builder	Layout #: Bayview Wellington	JB-08347
Air System Design Alter		Project	Green Valley Eas	
Residential mechanical ventilation Design Summary Area S	Sq ft: 3480	Model		
Residential System Design per CAN/CSA-F280-12		OD 40	S42-21	
Residential New Construction - Forced Air D. Declaration of Designer		SB-12	Package A1	
David DaCosta	declare that (choose one as app	ropriate):	
	declare that (choose one as app	orophate).	
(print name)				
☐ I review and take responsibilit	y for the design work	on behalf of a firm re	egistered under subsection	
3.2.4 Division C of the Building				
classes/categories. Individual E	RCINI:		WN OF BRADFORD WEST GWILLII LDING DEPARTMENT	MBURY
		PL/	ANS EXAMINED	
Firm BCIN:			TARIO BUILDING CODE APPLIES TE: 2022-09-02	
Individual E	BCIN: 329	64		
Basis for ex	xemption from registr	ration:	Division C 3.2.4.1. (4)	
☐ The design work is exempt fro	m the registration an	d qualification requir	rements of the Building Code.	
Basis for ex	xemption from registr	ation and qualification	on:	
I certify that:				
The information contained in this schedule is true to the bes	t of my knowledge.			
I have submitted this application with the knowledge and cor	nsent of the firm.			
July 20, 2022		Mane de	4C=6-	
Date		Signature of	Designer	

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, temporary 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 e-mail hvac@gtadesigns.ca

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Heat loss and gain cal	cula	ation summary sheet CSA-F280-M12 Standard
These documents issued for the use of	Bay	view Wellington Layout No.
and may not be used by any other persons without authorization. Docu	ıments	for permit and/or construction are signed in red. JB-08347
		ocation
Address (Model): S42-21		Site: Green Valley East
Model:		Lot:
City and Province: Bradford		Postal code:
Calcula	tions	s based on
Dimensional information based on:		VA3 DesignOct/2021
Attachment: Detached		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? VanEE V150H75NS		Internal shading: Light-translucent Occupants: 6
Sensible Eff. at -25C 60% Apparent Effect. at -0C	30%	Units: Imperial Area Sq ft: 3480
Sensible Eff. at -0C 75%		
Heating design conditions		Cooling design conditions
Outdoor temp -9.4 Indoor temp: 72 Mean soil temp:	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:		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 6
Style B:		Style B: As per Selected OBC SB12 Package A1 R 3
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 4.0
Windows		Style B:
Style A: As per Selected OBC SB12 Package A1 R	3.55	Style C:
Style B:		Skylights
Style C:		Style A: As per Selected OBC SB12 Package A1 R 2.0
Style D:		Style B:
Attached documents: As per Shedule 1 Heat	Loss/G	Gain Caculations based on CSA-F280-12 Effective R-Values
Notes: Residential	New C	onstruction - Forced Air
Calculati	ons p	erformed by
Name: David DaCosta		Postal code: L4T 0A4
Company: gtaDesigns Inc.		Telephone: (905) 671-9800
Address: 2985 Drew Road, Suite 202		Fax:
City: Mississauga		E-mail hvac@gtadesigns.ca



Bayview Wellington

Builder:

Total Effective Length

Adjusted Pressure

Duct Size Round

Inlet Size

Inlet Size

Trunk

86

0.14

8.0

FLC

OR

9x6

211

0.06

12.0

30

188

0.06

9.5

14

212

0.06

7.0

14

197

0.06

8.0

14

257

0.05

202

0.06

7.0

8

x

14

50

0.24

50

0.24

50

0.24

50

0.24

х

w

U

s

Q

245

0.06

9.5

10x8

127

Air System Design

July 20, 2022

Date:

SB-12 Package A1 2985 Drew Road, Suite 202, Mississauga, Ontario L4T 0A4 Tel: 905-671-9800 e-mail hvac@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 #

PJ-00041

Page 3

System 1 Mane Alex **Green Valley East** S42-21 Individual BCIN: 32964 David DaCosta Lavout # JB-08347 Project: Model: BOILER/WATER HEATER DATA: DESIGN LOAD SPECIFICATIONS AIR DISTRIBUTION & PRESSURE FURNACE/AIR HANDLER DATA: A/C UNIT DATA: Level 1 Net Load 25,543 btu/h **Equipment External Static Pressure** 0.5 "w.c. Make Make 3.5 Ton Amana Туре Amana Level 2 Net Load 24,394 btu/h **Additional Equipment Pressure Drop** 0.225 "w.c. Model AMEC960804CNA Model Cond.-3.5 Level 3 Net Load 14.033 btu/h **Available Design Pressure** 0.275 "w.c. Input Btu/h 80000 Input Btu/h Coil 3.5 7.984 btu/h 76800 Level 4 Net Load Return Branch Longest Effective Length 300 ft Output Btu/h Output Btu/h 71.953 btu/h " w c ΔWH 0.138 "w.c. 0.50 Min.Output Btu/h Total Heat Loss R/A Plenum Pressure E.s.p. Blower DATA: **Total Heat Gain** 36,754 btu/h S/A Plenum Pressure 0.14 "w.c. deg. F. W2 AFUE ECM Heating Air Flow Proportioning Factor 0.0215 cfm/btuh 96% Blower Speed Selected: **Blower Type** (Brushless DC OBC 12.3.1.5.(2)) **Building Volume Vb** 45900 ft³ Cooling Air Flow Proportioning Facter 0.0420 cfm/btuh Aux. Heat Ventilation Load 1.677 Btuh. 1545 cfm 1545 cfm R/A Temp 70 dea. F. SB-12 Package Package A1 Heating Check Cooling Check Ventilation PVC 95.4 cfm S/A Temp 116 deg. F. Supply Branch and Grill Sizing Diffuser loss 1545 cfm **Cooling Air Flow Rate** 1545 cfm 0.01 "w.c. Temp. Rise>>> 46 deg. F Selected cfm> Level 1 Level 2 S/A Outlet No 2 5 10 11 12 13 14 15 Room Use BASE BASE BASE BASE BASE KIT/GRT KIT/GRT אחווז MUD FOY LIV/DIN Btu/Outlet 4257 4257 4257 4257 4257 4257 3403 3403 1718 2349 3336 1808 2487 2487 3403 **Heating Airflow Rate CFM** 91 91 91 91 91 91 73 73 73 37 50 72 39 53 53 23 23 23 23 23 23 118 143 12 51 88 Cooling Airflow Rate CFM 118 118 61 **Duct Design Pressure** 0.13 **Actual Duct Length** 23 26 37 42 59 41 23 32 11 76 66 53 41 Equivalent Length 90 110 110 80 110 160 70 70 70 70 70 70 70 70 90 110 100 80 100 170 150 150 160 70 70 70 70 70 Total Effective Length 96 133 136 117 152 219 70 70 70 70 70 70 70 70 131 133 132 88 111 246 216 203 201 70 70 70 70 70 Adjusted Pressure 0.14 0.10 0.10 0.11 0.09 0.06 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.10 0.10 0.10 0.15 0.12 0.05 0.06 0.06 0.06 0.19 0.19 0.19 0.19 0.19 **Duct Size Round** 6 **Outlet Size** 4x10 3x10 4x10 3x10 4x10 4x10 4x10 4x10 4x10 4x10 Trunk D Level 3 Level 3 S/A Outlet No. 16 17 20 22 23 24 25 26 27 28 30 18 19 21 29 Room Use P.RFD P.RFD FNS wc. FNS 2 RFD 2 LAUND BFD 3 BFD 3 FNS 3 RFD 4 RFD 4 FNS 4 BFD 5 WIC Btu/Outlet 1973 1973 1785 587 88 1885 2437 2437 1079 1965 1965 750 1675 550 **Heating Airflow Rate CFM** 42 42 38 13 2 40 19 52 23 42 42 16 36 12 57 57 Cooling Airflow Rate CFM 40 37 50 65 65 23 70 70 15 46 2 -5 **Duct Design Pressure** 0.13 59 **Actual Duct Length** 51 39 24 27 91 91 77 61 52 **Equivalent Length** 160 120 140 110 140 100 110 160 150 70 70 70 70 70 140 190 180 150 150 150 70 70 70 70 70 70 70 70 70 257 219 171 181 127 254 242 70 70 70 231 281 211 202 70 70 70 70 70 70 Total Effective Length 149 164 126 70 194 70 70 Adjusted Pressure 0.06 0.08 0.07 0.09 0.08 0.10 0.10 0.05 0.05 0.19 0.19 0.19 0.19 0.06 0.05 0.05 0.06 0.06 0.07 0.19 0.19 0.19 0.19 0.19 0.19 0.19 Duct Size Round 5 5 6 6 3 Outlet Size 3x10 3x10 3x10 3x10 3x10 3x10 3x10 4x10 4x10 4x10 4x10 4x10 4x10 4x10 3x10 4x10 4x10 3x10 3x10 3x10 4x10 4x10 4x10 4x10 4x10 4x10 4x10 4x10 Trunk D D D C C C 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 274 491 245 140 150 105 140 **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 1545 0.05 19.0 24x14 1545 0.05 19.0 26x12 Drop 34x10 1300 17.0 67 62 67 0.05 R 0.05 **Actual Duct Length** 11 46 62 Z 18 0 30v10 24y12 1120 26x10 22×12 **Equivalent Length** 75 165 180 145 135 190 140 50 50 50 50 Υ 746 0.05 14.5 24x8 18x10 С 719 0.05 14.5 24x8 18x10

> 219 0.08 8.5 8x8 107 G EVIEWE

521

286

0.05

0.05

12.5

10.0

18x8

12x8

14x10

10x10



Heatloss/Gain Calculations CSA-F280-12

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

e-mail hvac@gtadesigns.ca

Property			Builder: Ba	ayview Welling	jton	_	Date:		July 20, 2	2022					Weatl	her Data	Bradford	44	-9.4	86 22	48.2			Page 4
Part	2012 OBC		Project:	Green Valley E	ast	N	Model:		S42-2	1		_	Systen	n 1	Heat	t Loss ^T 8	81.4 deg. F	Ht gain ^T	11 (deg. F	GTA:	3480	Project # Layout #	PJ-00041 JB-08347
Rule Conscious and Rule	Run			1			А		A		A		A		Α		A	A		А		A		Α
Proceedings Process		n ft. exposed wall B			В										В					В		В	1	В
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Southern 200 45 50 50 50 50 50 50																								
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Exposed Forms 19 776 234 1.37 1.984 1.98																								
Express Expr																								
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All Casing All	Foundation Cond																							
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Verification	Air Leakage			0.0404	40500																			
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Case X 0.04 0.06	Ventilation																							
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Duck and Pipe Soss																								
Duck and Pipe Soss		Appliances Loads	1 =.25 percent	5866																				
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Level 2					25543																			
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Colling height 11.0																								
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Skylight 2.03 40.10 88.23															1010									
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Net exposed walls B		Doors	4.00 20.35	2.75																				
Exposed Ceilings A 59.22 1.37 0.64					709 3389	458	106 50	7 68	226 108	146	212 101	137	118 564	76	380 1816	245								
Exposed Ceilings B 27.65 2.94 1.37																								
Exposed Floors 29.80 2.73 0.17																								
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Total Conductive	Foundation Cond		29.00 2.7																					
Total Conductive Heat Gain Heat Gain Heat Gain D.5187 D.0481 Say A537 Say A5				_ ^	6553		110	13	150	R	214		1160		3192	,								
Air Leakage Heat Loss/Gain 0.5187 0.0481 Case 1	Total Conductive				0000				.30		214		1.00											
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Case 3 x 0.04 0.06 258 275 43 22 59 12 84 61 46 51 125 97		Heat Loss/Gain																						
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Level HL Total 24,394 Total HL for per room 10210 1718 2349 3336 1808 4973 9	Ventilation	Case 1 Case 2 Case 3 Heat Gain People	17.58 x 0.04	11.88 0.06 239					5	9 12	8	61	46	51										
	Ventilation	Case 1 Case 2 Case 3 Heat Gain People Appliances Loads	17.58 x 0.04	1 11.88 1 0.06 239 5866					5	12	8	61	46	51										
Level no total 19,004 10tal no per touril x 1.3 0440 3594 294 1447 1217 4200	Ventilation	Case 1 Case 2 Case 3 Heat Gain People Appliances Loads Duct and Pipe loss	17.50 x 0.04 1 = .25 percent	3 11.88 4 0.06 239 5866 10%	1.0	1467	1.5	2200							1.0	1467								
	Ventilation	Case 1 Case 2 Case 3 Heat Gain People Appliances Loads Duct and Pipe loss 24,394	17.50 x 0.04 1 = .25 percent	3 11.88 4 0.06 239 5866 10% or per room	1.0	1467	1.5	2200		9		3			1.0	1467								

| Total Heat Loss | 71,953 | btu/h | | Dotal Heat Gain | 36,754 | | btu/h | | Dotal Heat Gain | 36,754 | | Dotal Heat Gain | 36,754 | | Dotal Heat Gain | 36,754 | | Dotal Heat Gain | Dotal Hea

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:





Heatloss/Gain Calculations CSA-F280-12

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

e-mail hvac@gtadesigns.ca

This image			Builder:	Bay	view Wellin	ngton	_	Date:			July	20, 202	2						_	Weath	ner Data		Bradford	44	-9.4	86 22	48.2				Page 5
Part	2012 OBC		Project:	Gr	een Valley	East	_	Model:			s	342-21					Syst	em 1		Heat	Loss ^T	81.4 de	g. F	Ht gain ^T	1	1 deg. F	GTA:	3480	Projec Layou		PJ-00041 JB-08347
Figure 1962 1979 1979 1979 1979 1979 1979 1979 197		ft. exposed wall A				31 A	ED		Α					Α	NS 2	•	19 A	2	9) A	D	27 A	BED 3								
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Part	_					458 Area									a		181 Area					257 A	ea				ı				
Property																			59												
Part	-					_													11												
The content																															
Mathematical Math		Gross Exp Wall B																													
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Second																															
Part																															
Montpool																															
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Figure F	E	xposed Ceilings A				458 6	30 29	129	177	83	27	37	17	46	63	30	181 2	19 11	6 59	81	38	257	353 16	5							
Triangle	E																					202	E74 ^								
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Case													129			30															
Verification Case 1 77 a 11.86	Air Leakage					9	94 6	9	450	32		148	6		22	1	4	75 1	9	219	8		1119 8	4							
March Marc	Ventilation																														
Appliances tools 1 - 25 percent 566 1 - 25 percent 566 1 - 25 percent 1 - 25 perc			х			1	12 8	7	51	40		17	8		2	2		53 2	4	25	10		126 10	6							
Court and Pipe loss						2	47	В									1	23				1	23	9							
Level 14 Total			1 =.25 p	ercent															0.5	5	733		400 40								
Level 13			To	otal HL for I		39	46		1785			587			88		18	35		869	,	1		9							
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Components R-Values Loss Gain Loss									rii			"								FII				FII		FII		FII		FII	
South Shaded 3.58 22.93 11.62		Gross Exp Wall B																													
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South 3.55 22.93 22.50							00 00		4400	4000																					
Existing Windows 1.99 40.90 23.66						9 2	06 26	0 62	1422	1833	7	161	158	16	367	360															
Skylight 2.03 40.10 88.23											·																				
Net exposed walls A 17.03 4.78 0.65 54 258 35 224 1071 145 56 268 36 128 612 83 63 301 41		Skylight	2.03		88.23																										
Net exposed walls B 8.50 9.58 1.29 8 4 195 268 125 81 111 52 165 227 106 69 95 44						F4 0	-		4074	445		200	20	400	640	00															
Exposed Ceilings A 59.22 1.37 0.64 64 88 41 195 268 125 81 111 52 165 227 106 69 95 44 Exposed Ceilings B 27.65 2.94 1.37 Exposed Floors 29.80 2.73 0.17 Foundation Conductive Heatloss						54 Z	38 3	224	1071	145	26	268	36	128	012	83	63 3	J1 4	-1												
Exposed Floors 29.80 2.73 0.17 57 156 10 25 68 4						64	88 4	1 195	268	125	81	111	52	165	227	106	69	95 4	4												
Foundation Conductive Heatloss Total Conductive Heat Loss Heat Casin Air Leakage Heat Loss/Gain Case 1 Case 1 Case 3 Case 4 Case 3 Case 3 Case 3 Case 4 Case 3 Case 3 Case 3 Case 3 Case 4 Case 3 Case 4 Case 4 Case 3 Case 4 Case 3 Case 4 Case 3 Case 4 Case 3 Case 4 Case 4 Case 4 Case 5 Case 5 Case 5 Case 6 Case 6 Case 6 Case 6 Case 6 Case 7 Case	E																														
Total Conductive	Farm dation Canad		29.80	2.73	0.17	57 1	56 1	25	68	4																					
Heat Gain						7	08		2829			540		1	205		3	96													
Air Leakage Heat Loss/Gain 0.3501 0.0481 28 17 990 101 189 12 422 26 139 4 Ventilation Case 2 17.58 11.88 Case 3 x 0.04 0.06 28 21 111 128 21 15 47 33 16 5 Heat Gain People 2 239 1 1 239 1 2							-	2		2107		0.0	246		-30	549			5												
Ventilation Case 2 17.58 11.88 Case 3 x 0.04 0.06 28 21 111 128 21 15 47 33 16 5	Air Leakage	Heat Loss/Gain				2			990	101		189	12		422	26	1	39	4												
Case 3 x 0.04 0.06 28 21 111 128 21 15 47 33 16 5	Ventilation																														
Heat Gain People 239 1 239 1 239 1 239 1 239 1 239 1 239 1 239 1 239 2 249 2 2	Tomation		x				28 2	1	111	128		21	15		47	33		16	5												
Duct and Pipe loss 10% 1 96 35 Level HL Total 7,984 Total HL for per room 1079 3930 750 1675 550 Level HG Total 5,477 Total HG per room x 1.3 552 3347 354 1101 122			_	0.07										1	-																
Level HL Total 7,984 Total HL for per room 1079 3930 750 1675 550 Level HG Total 5,477 Total HG per room x 1.3 552 3347 354 1101 122					239			1		233																			1		
Level HG Total 5,477 Total HG per room x 1.3 552 3347 1101 122		Heat Gain People Appliances Loads	1 =.25 p	ercent	5866			·		239																					
		Heat Gain People Appliances Loads Duct and Pipe loss			5866 10%			·	2020	233		750			675																
CD 40 Declare	Level HL Total	Heat Gain People Appliances Loads Duct and Pipe loss 7,984	To	otal HL for p	5866 10% per room		79	5	3930			750	354	1	675	1101	5		2												

71,953 Total Heat Loss btu/h Total Heat Gain 36,754

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:

Name Motor





2985 Drew Road, Suite 202, Mississauga, Ontario L4T 0A4 Tel: 905-671-9800 e-mail hvac@gtadesigns.ca

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

2

3 x

4

Project # Layout # Page 6 PJ-00041 JB-08347

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 Park David DaCosta

Package:	Package A1		040.04	
Project:	Bradford	Model:	S42-21	
	RESIDENTIAL MECHANICAL			
	For systems serving one dwelling unit & con	nforming to the Ontario Buildin	ng Code, O.reg 332/12	
	Location of Installation	Total V	/entilation Capacity 9.32.3.	3(1)
Lot #	Plan #			
Township	Bradford	Bsmt & Master Bdrm Other Bedrooms Bathrooms & Kitchen	2 @ 21.2 cfr 4 @ 10.6 cfr 6 @ 10.6 cfr	n 42.4 cfm
Roll #	Permit #	Other rooms	6 @ 10.6 cfr 5 @ 10.6 cfr Total	
Address				
		Principa	l Ventilation Capacity 9.32.	3.4(1)
Name	Builder	Maatar badraam	1 @ 24.0 of	m 31.8 cfm
IName	Bayview Wellington	Master bedroom Other bedrooms	1 @ 31.8 cfr 4 @ 15.9 cfr	
Address	,		Total	95.4
City				
Tel	Fax	Prin Make	cipal Exhaust Fan Capacity Model	<u>y</u> Location
101	Tux	VanEE	V150H75NS	Base
	Installing Contractor	Vanie	V 100117 01 10	Base
Name		127 cfm		Sones or Equiv.
Address		H	Heat Recovery Ventilator	
0.7		Make	VanEE	
City		Model	V150H75NS 127 cfm high	80 cfm low
Tel	Fax	Sensible efficiency @	2 -25 deg C	60%
		Sensible efficiency @	0 deg C lance HRV/ERV to within 10	75%
	Combustion Appliances 9.32.3.1(1)		lemental Ventilation Capac	
a) x b) c) d)	Direct vent (sealed combustion) only Positive venting induced draft (except fireplaces) Natural draft, B-vent or induced draft fireplaces Solid fuel (including fireplaces)	Total ventilation capa Less principal exhaus REQUIRED supplem	st capacity	201.4 95.4 106.0 cfm
e)	No combustion Appliances			
		Su	ipplemental Fans 9.32.3.5.	
	Heating System	Location	cfm Model	Sones
Х	Forced air	Ens	50 XB50	0.3
	Non forced air Electric space heat (if over 10% of heat load)	Ens 2 Ens 3	50 XB50 50 XB50	0.3 0.3
	House Type 9.32.3.1(2)			
l x	Type a) or b) appliances only, no solid fuel	all fans HVI listed	Make Broan	or Equiv.
II	Type I except with solid fuel (including fireplace)		D1	
III L	Any type c) appliance Type I or II either electric space heat	I hereby certify that th	Designer Certification nis ventilation system has been	en designed
Other	Type I, II or IV no forced air		e Ontario Building Code.	on designed

	Designer Certification								
I hereby certify that this ventilation system has been designed									
in accordance v	in accordance with the Ontario Building Code.								
Name	David DaCosta								
rano									
Signature	Mare Alete								
Oignature									
HRAI#	5190 BCIN# 32964								
	DEMENTE								
Date	July 20, 2022								

♦GTA\DESIGNS

Energy Efficiency Design Summary: Prescriptive Method

(Building Code Part 9, Residential)

Page 7

Project # PJ-00041 Layout # JB-08347

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 P	rincip	oal Author	ity					
Application No:					Model/Ce	rtification Nu	mber				
A. Project Information											
Building number, street name							Unit numb	per	Lot/Con		
			S42-21								
Municipality Bradford			Postal code		Reg. Plan	number / otl	her descrip	tion	· L		
B. Prescriptive Compliance [indicate the building code compliance package being employed in the house design]											
SB-12 Prescriptive (input design pa	ckage):		<u>P</u>	ack	age A1			Table:	3.1.1.2.	<u>A</u>	
C. Project Design Conditions											
Climatic Zone (SB-1):		Heat. E	quip. Efficie	псу			Spac	e Heating F	uel Sourc	ce	
Zone 1 (< 5000 degree days)		√ ≥ 92	2% AFUE		~	Gas		Propane		Solid Fuel	
Zone 2 (≥ 5000 degree days)	Zone 2 (≥ 5000 degree days)					Oil		Electric		Earth Energy	
Ratio of Windows, Skylights & Glas	s (W, S	& G) to	Wall Area				Other	Building Ch	aracteris	tics	
	-				☐ Log/l	Post&Beam		ICF Above	Grade	☐ ICF Basement	
Area of Walls = $\frac{471.47}{1.47}$ m ² or $\frac{5074.9}{1.47}$	ft²	W,S &	.G % = <u>10.9</u>	9%	☐ Slab	-on-ground	1.1	Walkout Ba	sement		
		<u> </u>			☑ Air C	onditioning	1.1	Combo Uni	t		
Area of W, S & G = <u>51.281</u> m ² or <u>552.0</u>	ft²	Utilize \	Nindow 🗆 '	Yes	☐ Air S	ourced Hea	it Pump (A	SHP)			
		Avera	aging 🔽 լ	No	☐ Grou	ınd Source I	Heat Pum	p (GSHP)			
D. Building Specifications [provide	values a	nd ratings	s of the energy	effici	ency com	onents pro	posed]				
Energy Efficiency Substitutions					-		-				
☐ ICF (3.1.1.2.(5) & (6) / 3.1.1.3.(5))											
Combined space heating and domestic	water he	eating sys	tems (3.1.1.2(7) / 3.	1.1.3.(7))						
Airtightness substitution(s)		Table 3.	1.1.4.B Requ	ired:				Permitted S	Substitution):	
Airtightness test required		Table 3.	Requ	ired:				Permitted S	Substitution):	
(Refer to Design Guide Attached)		i able 5.	Requ	ired:	ed: Permitted Substitution:						
Building Component	Mini	mum RS	SI/R-Values o	r		Ruil	ding Cor	nnonent		Efficiency Ratings	
Building Component	N	/laximun	n U-Value ¹		Building Component Efficiency Ratings						
Thermal Insulation	Non	ninal	Effective)	Windo	vs & Doo	rs Provid	e U-Value ⁽¹⁾ o	r ER rating	J	
Ceiling with Attic Space	6	0	59.22		Window	s/Sliding G	lass Doo	rs		1.6	
Ceiling without Attic Space	3	1	27.65		Skylight	3				2.8	
Exposed Floor	3	1	29.80		Mechai	nicals					
Walls Above Grade	22		17.03		Heating	Equip.(AFL	JE)			96%	
Basement Walls		20.0ci	21.12		HRV Eff	iciency (SF	RE% at 0°0	C)		75%	
Slab (all >600mm below grade)	2	x	Х		DHW H	eater (EF)				0.80	
Slab (edge only ≤600mm below grade)	1	0	11.13		DWHR	(CSA B55.1	(min. 42%	efficiency))		#Showers 2	
Slab (all ≤600mm below grade, or heated)	1	0	11.13		Combine	ed Heating	System				
(1) U value to be provided in either W/($m^2 \cdot K$) or Bt	u/(h·ft·F) b	out not bo	th.								
E. Designer(s) [name(s) & BCIN(s), if	applicable	e, of perso			mation he	rein to subst	tantiate tha	at design mee	ts building	code]	
Name			BCIN	1		Signature		. 1	. 1 -	? ,	
David DaCosta			;	329	964		-	Mane	14C=	₹ 7	
Form authorized by OHBA, OBOA, LMCBO. Revised December 1, 20.	16					L					

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





2985 Drew Road, Suite 202, Mississauga, Ontario L4T 0A4 Tel: 905-671-9800 e-mail hvac@gtadesigns.ca

Page 8 PJ-00041 Project # Layout # JB-08347

System 1 Package: Package A1 System: Project: **Bradford** Model: S42-21

Air Leakage Calculations

Building Air Leakage Heat Loss										
В	LRairh	Vb	HL^T	HLleak						
0.018	0.403	45900	81.4	27072						

Building Air Leakage Heat Gain										
В	LRairh	Vb	HG^T	HG Leak						
0.018	0.099	45900	11	899						

2

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		11553	1.1716				
Level 2	0.3	27072	15657	0.5187				
Level 3	0.2	27072	15467	0.3501				
Level 3	0.2		15467	0.3501				

(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

3

4

Vent

Case

Case

Case

		Air Leakage Heat Gain
HG LEAK	899	0.0481
BUILDING CONDUCTIVE HEAT GAIN	18705	0.0461

L	evels this Dwelling	
	3	

Ventilation Calculations

			Ventua	ion ricat Loss	
Г					
				n Heat Loss	
	С	PVC	HL^T	(1-E) HRV	HLbvent
	1.08	95.4	81.4	0.20	1677

Case 1

Ventilation Heat Loss

Ventilation Heat Gain				
С	PVC	HG^T	HGbvent	
1.1	95.4	11	1133	

Ventilation Heat Gain

Case 1

Case 2

1

Ventilation Heat Loss (Exhaust only System	ms)

Exhaust only Systems)	Ventilation Heat Gain (Exhaust Only Systems)

Case 1 - Exhaust Only				
Level	LF	HLbvent	LVL Cond. HL	Multiplier
Level 1	0.5		11553	0.07
Level 2	0.3	1677	15657	0.03
Level 3	0.2	10//	15467	0.02
Level 3	0.2		15467	0.02

Case 1 - Exhaust Only		Multiplier
HGbvent	1133	0.06
Building	18705	0.06

Ventilation Heat Gain (Direct Ducted Systems) **Ventilation Heat Loss (Direct Ducted Systems)**

			Multiplier
C	HL^T	(1-E) HRV	17.58
1.08	81.4	0.20	17.30

Ī			Multiplier
ſ	C	HG^T	11.88
	1.08	11	11.00

Case 3 Ventilation Heat Loss (Forced Air Systems)

Case 3	
Ventilation Heat Gain (Forced Air Syste	ems)

	HLbvent	Multiplier
Total Ventilation Load	1677	0.04

		Vent Heat Gain	Multiplier	
HGbvent	HG*1.3	1133	0.06	
1133	1	1133	0.00	

Foundation Conductive Heatloss Level 1	Level 1	2884 W	atts 9842	Btu/h	
Foundation Conductive Heatloss Level 2	Level 2	W	atts	Btu/h	

32964

Slab on Grade Foundation Conductive Heatloss Watts Btu/h

Walk Out Basement Foundation Conductive Heatloss

Watts Btu/h

EVIEWED

Envelope Air Leakage Calculator

Supplemental tool for CAN/CSA-F280

Weather Station	Description
Province:	Ontario T
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):	8.84
Building Config	guration
Type:	Detached
Number of Stories:	Two
Foundation:	Shallow
House Volume (m³):	1299.89
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:
, ,	47.7 47.7
Flue #:	#1 #2 #3 #4
Diameter (mm):	0 0 0 0
Heating Air Leakage Rate (ACH/H):	0.403
Cooling Air Leakage Rate (ACH/H):	0.099

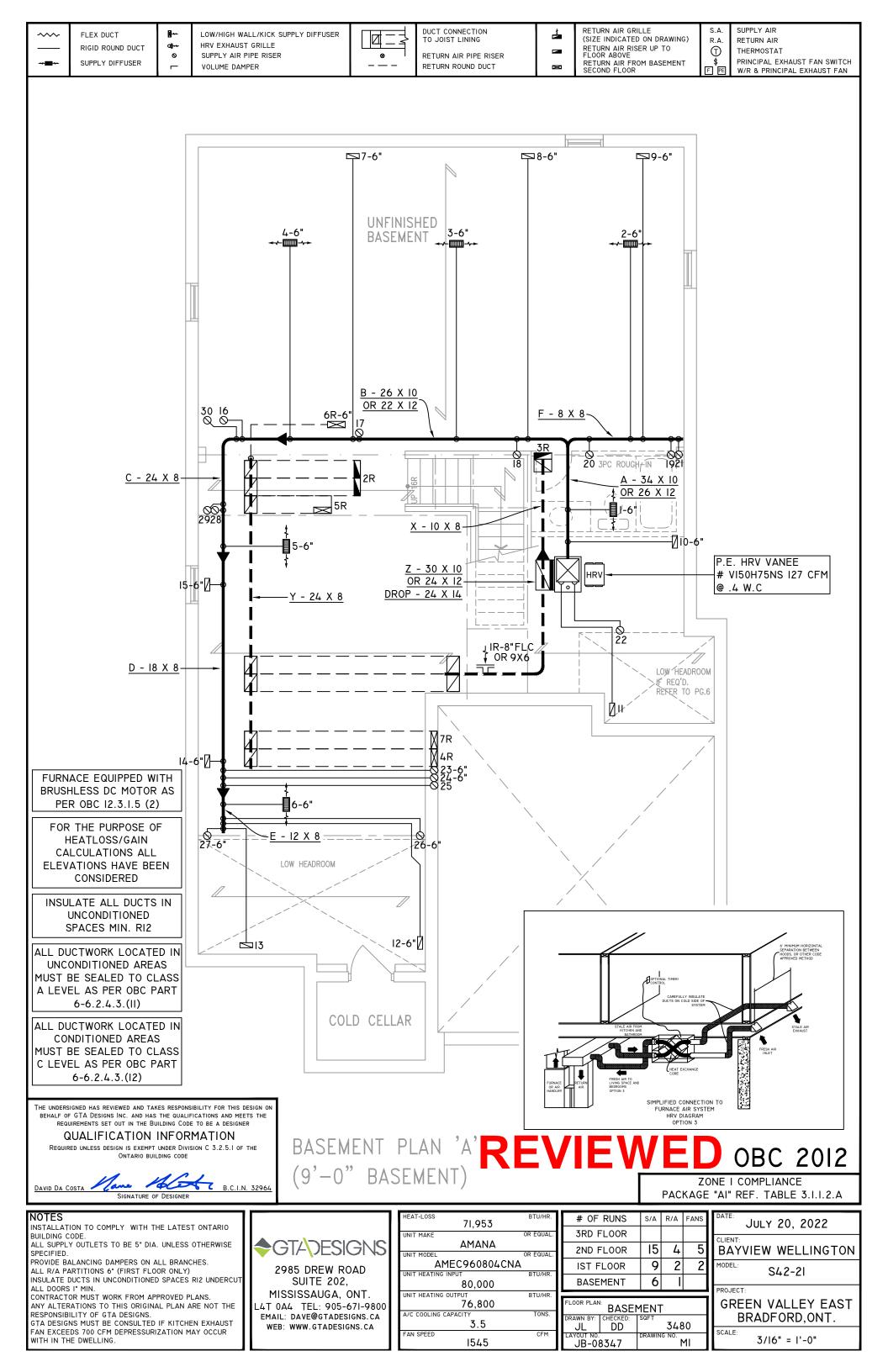


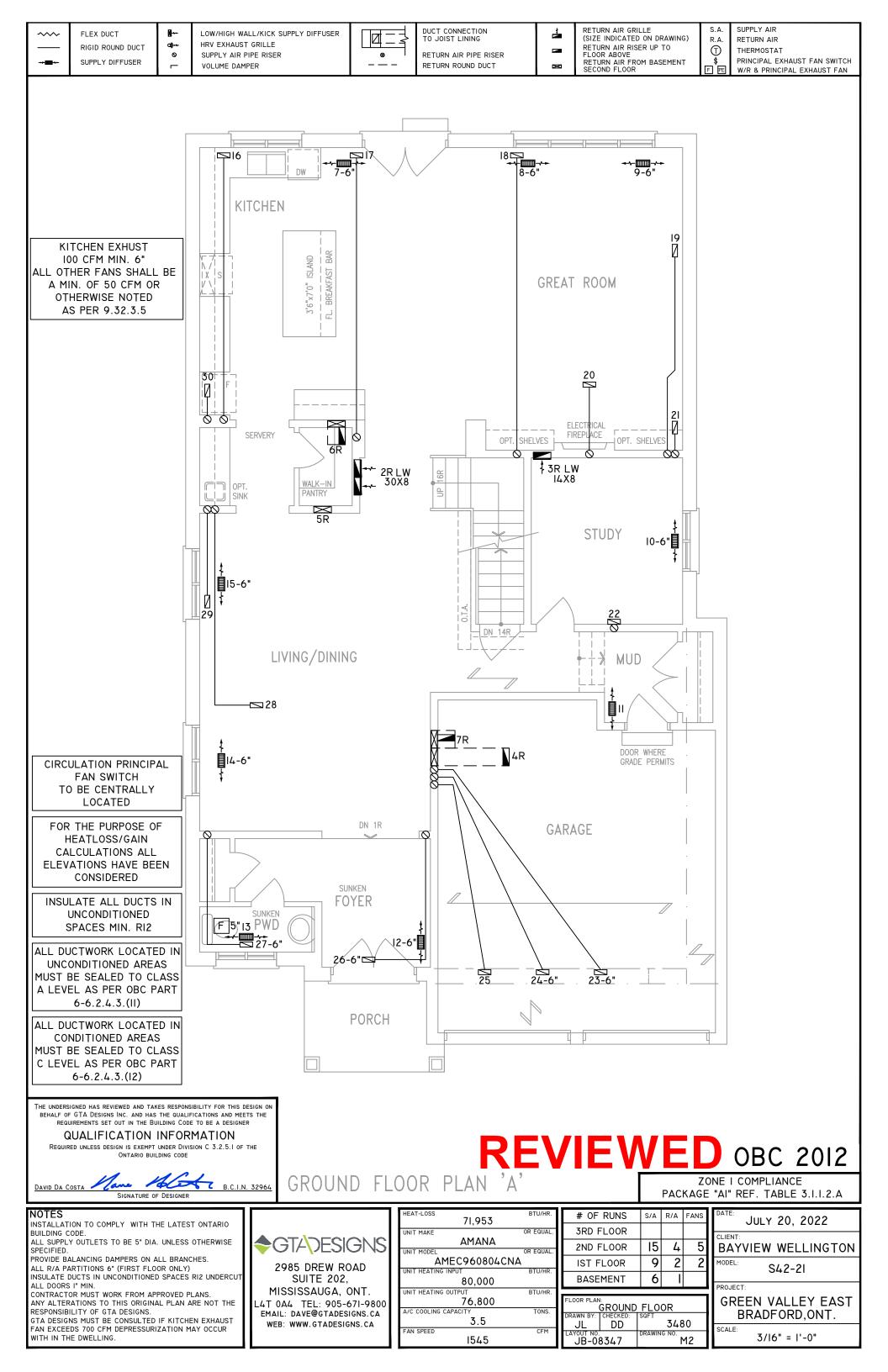
Residential Foundation Thermal Load Calculator

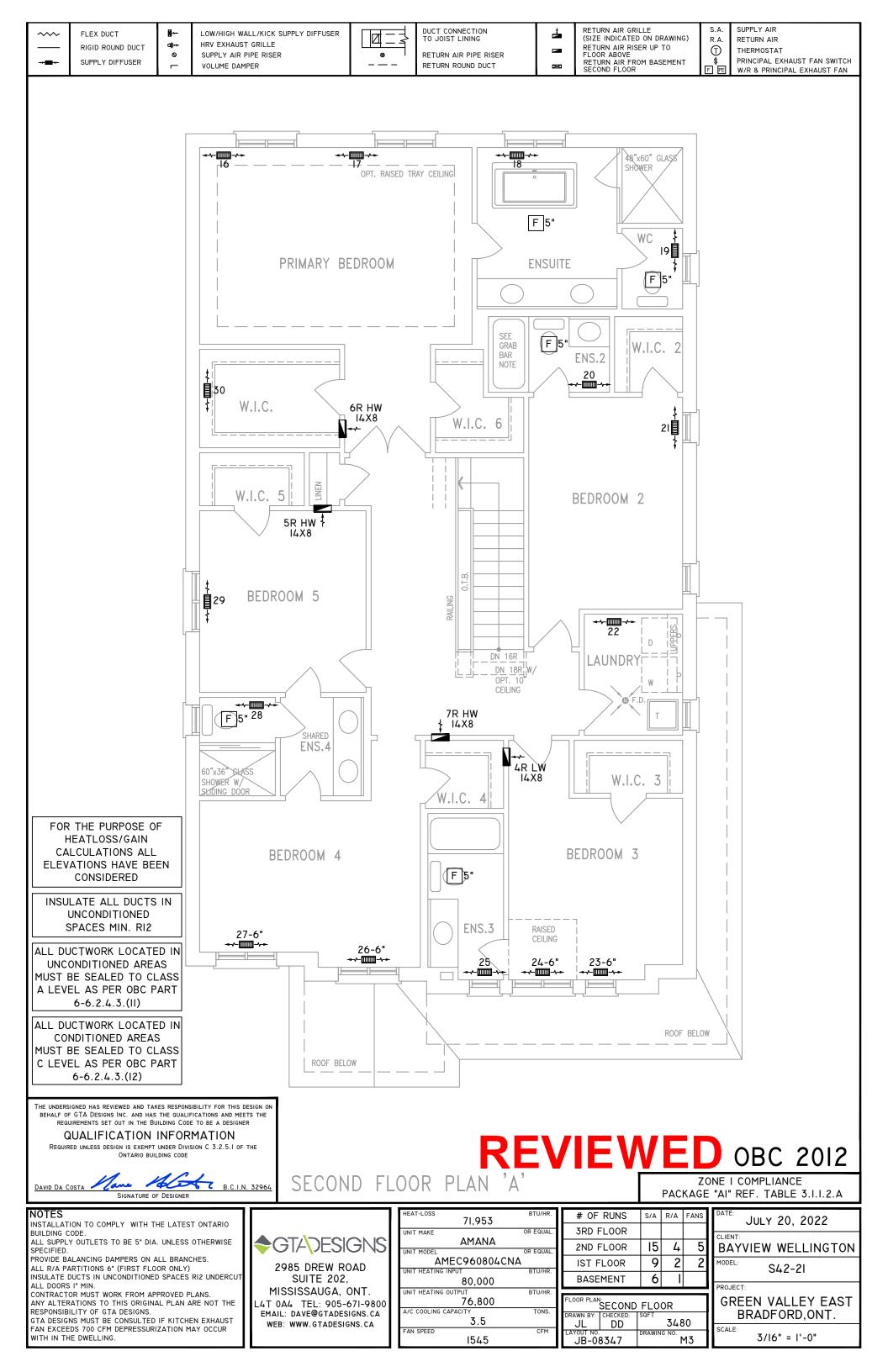
Supplemental tool for CAN/CSA-F280

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	undatio	n Dimensions			
Floor Length (m):	21.26				
Floor Width (m):	6.32				
Exposed Perimeter (m):	55.17				
Wall Height (m):	3.05	Annunus			
Depth Below Grade (m):	0.91	Insulation Configuration			
Window Area (m²):	5.20				
Door Area (m²):	1.95				
	Radi	ant Slab			
Heated Fraction of the Slab:	0				
Fluid Temperature (°C):					
	Desig	n Months			
Heating Month	1				
	Founda	ation Loads			
Heating Load (Watts):		2884			









FLEX DUCT RIGID ROUND DUCT SUPPLY DIFFUSER

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



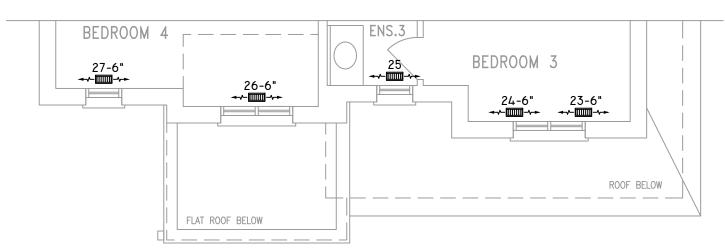
DUCT CONNECTION TO JOIST LINING RETURN AIR PIPE RISER RETURN ROUND DUCT

À

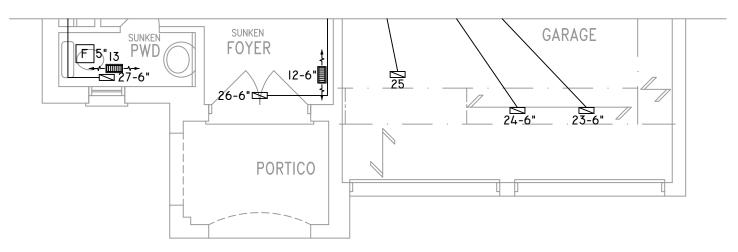
RETURN AIR GRILLE (SIZE INDICATED ON DRAWING) RETURN AIR RISER UP TO FLOOR ABOVE RETURN AIR FROM BASEMENT SECOND FLOOR

SUPPLY AIR R.A 1

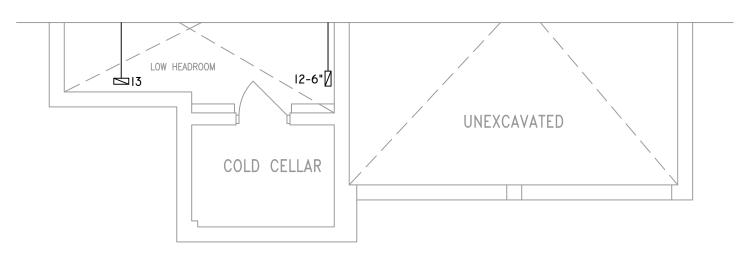
RETURN AIR THERMOSTAT PRINCIPAL EXHAUST FAN SWITCH



PARTIAL SECOND FLOOR PLAN 'B'



PARTIAL GROUND FLOOR PLAN 'B'



PARTIAL BASEMENT PLAN 'B'



REVIEWED 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.



2985 DREW ROAD SUITE 202, MISSISSAUGA, ONT. L4T 0A4 TEL: 905-671-9800 EMAIL: DAVE@GTADESIGNS.CA

WEB: WWW.GTADESIGNS.CA

	AMANA	
	UNIT MODEL	OR EQUAL.
	AMEC960804CNA	
	UNIT HEATING INPUT	BTU/HR.
	80,000	
H	UNIT HEATING OUTPUT	BTU/HR.
	76,800	
H	A/C COOLING CAPACITY	TONS.
	3.5	
	FAN SPEED	CFM
	1545	

UNIT MAKE

71,953

OR EQUAL

# OF RUNS	S/A	R/A	FANS
3RD FLOOR			
2ND FLOOR	15	4	5
IST FLOOR	9	2	2
BASEMENT	6		
FLOOR PLAN:			

FLOOR PLAN:				
		PLAN(S)		
DRAWN BY:	CHECKED:	SQFT		
Ш	ממ	3480		
JL	טט			
_AYOUT NO.	•	DRAWING NO.		
JB-08347		l M/.		
00-00047		' I I - 		

JULY 20, 2022 CLIENT BAYVIEW WELLINGTON MODEL: S42-21 PROJECT:

GREEN VALLEY EAST BRADFORD, ONT.

3/16" = 1'-0"



LOW/HIGH WALL/KICK SUPPLY DIFFUSER

HRV EXHAUST GRILLE
SUPPLY AIR PIPE RISER

VOLUME DAMPER

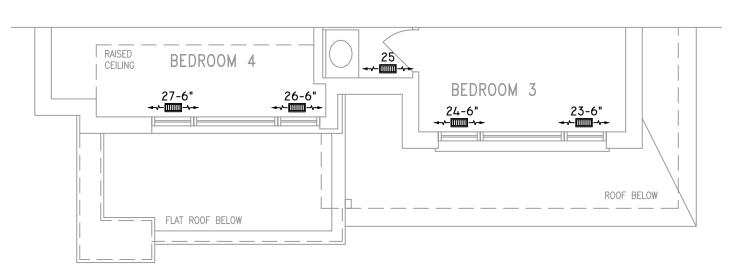


DUCT CONNECTION
TO JOIST LINING

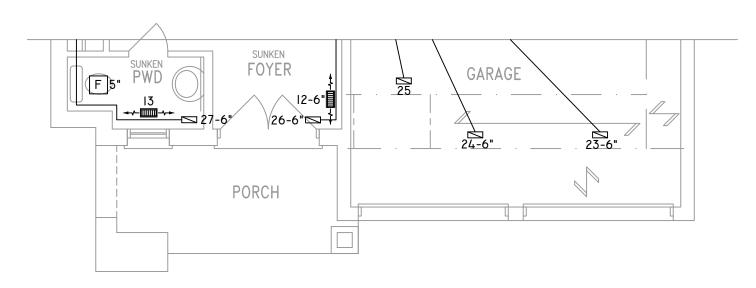
RETURN AIR PIPE RISER
RETURN ROUND DUCT

RETURN AIR GRILLE (SIZE INDICATED ON DRAWING) RETURN AIR RISER UP TO FLOOR ABOVE RETURN AIR FROM BASEMENT SECOND FLOOR S.A. SUPPLY AIR
R.A. RETURN AIR
THERMOSTA
\$ PRINCIPAL E

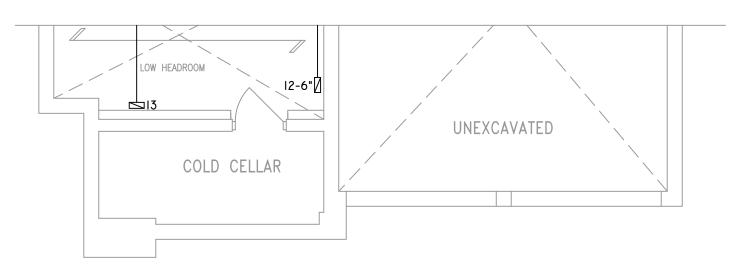
RETURN AIR THERMOSTAT PRINCIPAL EXHAUST FAN SWITCH W/R & PRINCIPAL EXHAUST FAN



PARTIAL SECOND FLOOR PLAN 'C'



PARTIAL GROUND FLOOR PLAN 'C'



PARTIAL BASEMENT PLAN 'C'



REVIEWED OBC 2012

ZONE I COMPLIANCE PACKAGE "AI" REF. TABLE 3.I.I.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.

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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WEB: WWW.GTADESIGNS.CA

UNII MAKE	OR LUGAL.
AMANA	
UNIT MODEL	OR EQUAL.
AMEC960804CNA	
UNIT HEATING INPUT	BTU/HR.
80,000	
UNIT HEATING OUTPUT	BTU/HR.
76,800	
A/C COOLING CAPACITY	TONS.
3.5	
FAN SPEED	CFM
1545	

71.953

				_
# OF RUNS	S/A	R/A	FANS	Г
3RD FLOOR				
2ND FLOOR	15	4	5	
IST FLOOR	9	2	2	1
BASEMENT	6			I,
FLOOR PLAN:				

LOOR PLAN:					
PARTIAL PLAN(S)					
RAWN BY:	CHECKED:	SQFT			
JL	DD	3480			
AYOUT NO.		DRAWING NO.			
JB-08347		M5			

JULY 20, 2022

CLIENT:
BAYVIEW WELLINGTON

MODEL:
S42-21

PROJECT:

GREEN VALLEY EAST BRADFORD,ONT.

3/16" = 1'-0"





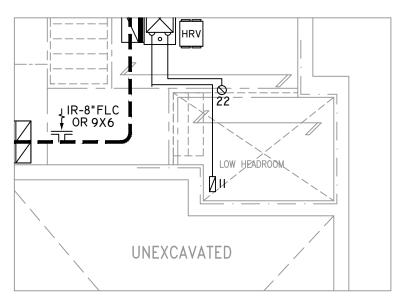


DUCT CONNECTION
TO JOIST LINING

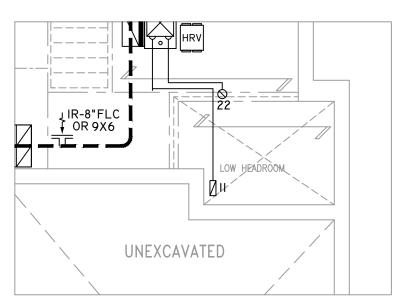
RETURN AIR PIPE RISER
RETURN ROUND DUCT

RETURN AIR GRILLE (SIZE INDICATED ON DRAWING) RETURN AIR RISER UP TO FLOOR ABOVE RETURN AIR FROM BASEMENT SECOND FLOOR S.A. SUPPLY AIR
R.A. RETURN AIR
THERMOSTA
\$ PRINCIPAL E

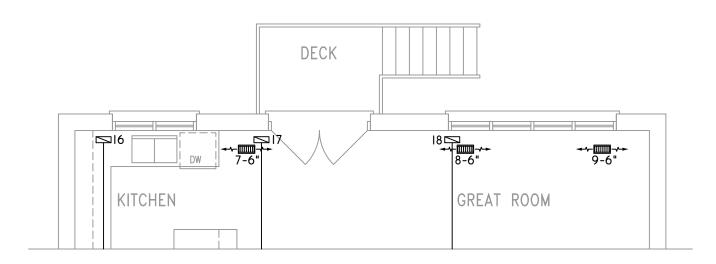
RETURN AIR THERMOSTAT PRINCIPAL EXHAUST FAN SWITCH W/R & PRINCIPAL EXHAUST FAN



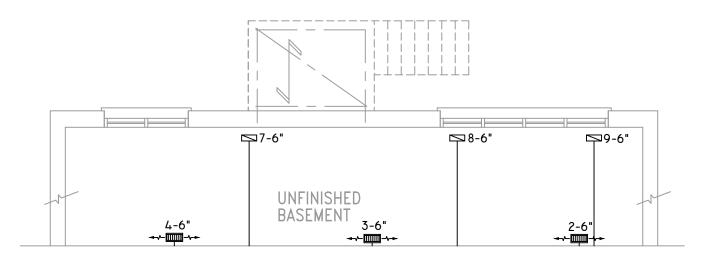
PARTIAL BASEMENT PLAN FOR SUNKEN MUD ROOM (-2R TO -3R CONDITION)



PARTIAL BASEMENT PLAN FOR SUNKEN MUD ROOM (-1R CONDITION)



PARTIAL GROUND FLOOR PLAN W/ W.O.D. (9R OR MORE)



PARTIAL BASEMENT PLAN W/ W.O.D. (9R OR MORE)

HEAT-LOSS

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

B.C.I.N. 32964

REVIEWED OBC 2012

3480

M6

ZONE I COMPLIANCE PACKAGE "AI" REF. TABLE 3.I.I.2.A

NOTES

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.

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



SUITE 202, MISSISSAUGA, ONT. L4T 0A4 TEL: 905-671-9800 EMAIL: DAVE@GTADESIGNS.CA

WEB: WWW.GTADESIGNS.CA

71,953	BTO/FIK.
UNIT MAKE	OR EQUAL.
AMANA	
UNIT MODEL	OR EQUAL.
AMEC960804CNA	
UNIT HEATING INPUT	BTU/HR.
80,000	
UNIT HEATING OUTPUT	BTU/HR.
76,800	
A/C COOLING CAPACITY	TONS.
3.5	
FAN SPEED	CFM
1545	

# OF RUNS	S/A	R/A	FANS	
3RD FLOOR				
2ND FLOOR	15	4	5	
IST FLOOR	9	2	2	
BASEMENT	6			
FLOOR PLAN:				
PARTIAL PLAN(S)				
DBVMNI BA- CHECKED-	SOFT			

JL | DD

JB-08347

ł	JULY 20, 2022
	CLIENT: BAYVIEW WELLINGTON
1	MODEL: S42-21
J	PROJECT:
1	GREEN VALLEY EAST

BRADFORD, ONT.

3/16" = 1'-0"