♦GTADESIGNS

TOWN OF BRADFORD WEST GWILLIMBURY
BUILDING DEPARTMENT
PLANS EXAMINED
ONTARIO BUILDING CODE APPLIES
DATE: 2024-04-23
INSPECTOR: SE

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:	
THWU-	·15E		Lot/con.	
Municipality Bradford	Postal code	Plan number/ other description		
B. Individual who reviews and takes responsibility for design	n activities			
Name David DaCosta		Firm	gtaDesigns Inc.	
Street address 2985 Drew Roa	d, Suite 202		Unit no.	Lot/con.
Municipality Mississauga	Postal code L4T 0A4	Province Ontario	E-mail dave@gtadesig	ans ca
Telephone number	Fax number	Ontario	Cell number	<u> </u>
(905) 671-9800		7) 494-9643	(416) 268-68	320
C. Design activities undertaken by individual identified in S	ection B. [Bu	ilding Code Table 3	3.5.2.1 of Division C]	
☐ House ☑ HVAC – H	louse		☐ Building Structural	
☐ Small Buildings ☐ Building Se	ervices		☐ Plumbing – House	
☐ Large Buildings ☐ Detection,	Lighting and Pov	wer	☐ Plumbing – All Buildings	
☐ Complex Buildings ☐ Fire Protect	tion		☐ On-site Sewage Systems	3
Description of designer's work Mod	del Certification	1	Project #:	PJ-00204
Heating and Cooling Load Calculations Main	Х	Duildor	Layout #:	JB-04878
Heating and Cooling Load Calculations Main Air System Design Alternate		Builder Project	Bayview Wellingtor Green Valley	1
Residential mechanical ventilation Design Summary Area Sq ft:		Model	Orean runey	
Residential System Design per CAN/CSA-F280-12			THWU-15E	
Residential New Construction - Forced Air		SB-12	Package A1	
D. Declaration of Designer				
David DaCosta	declare that (c	choose one as appro	priate):	
(print name)				
☐ I review and take responsibility for t 3.2.4 Division C of the Building Coc				
classes/categories.				
Individual BCIN:			•	
Firm BCIN:			•	
	-	•		
Individual BCIN:	3296	64		
Basis for exemp	otion from registra	ation:	Division C 3.2.4.1. (4)	
☐ The design work is exempt from the	e registration and	d qualification requirem	nents of the Building Code.	
Basis for exemp	tion from registra	ration and qualification:		
I certify that:				
The information contained in this schedule is true to the best of m	ny knowledge.			
I have submitted this application with the knowledge and consent	of the firm.			
December 12, 2023		Mana 14	and the second	
Date		Signature of De	signer	

NOTE:

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.



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

Page 2

- 0	CCA FOOD MAD Chandard
Heat loss and gain calcul	lation summary sheet CSA-F280-M12 Standard
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-04878
Building	Location
Address (Model): THWU-15E	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: 1922
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 B: Existing Windows (When Applicable) R 1.99	
Style C:	Style A: As per Selected OBC SB12 Package A1 R 2.03
Style D:	Style B:
<u> </u>	ain Caculations based on CSA-F280-12 Effective R-Values
'	Construction - Forced Air
Calculations	
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
5554494	

Trunk



Builder:

Bayview Wellington

Date:

Air System Design

SB-12 Package A1 December 12, 2023

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.

Project #

Page 3

PJ-00204 of the Building Code. System 1 Mane 14CEXT **Green Valley** THWU-15E Individual BCIN: 32964 David DaCosta Lavout # JB-04878 Project: Model: A/C UNIT DATA: DESIGN LOAD SPECIFICATIONS AIR DISTRIBUTION & PRESSURE FURNACE/AIR HANDLER DATA: BOILER/WATER HEATER DATA: Level 1 Net Load 10,856 btu/h **Equipment External Static Pressure** 0.5 "w.c. Make 2.0 Ton Amana Make Туре Amana Level 2 Net Load 12,066 btu/h **Additional Equipment Pressure Drop** 0.225 "w.c. Model AMEC960403ANA Model Cond.--2.0 Level 3 Net Load 10.393 btu/h Available Design Pressure 0.275 "w.c. Input Btu/h 40000 Input Btu/h Coil -2.0 Return Branch Longest Effective Length 38400 Level 4 Net Load 0 btu/h 300 ft Output Btu/h Output Btu/h R/A Plenum Pressure 0.50 " W C Min.Output Btu/h ΔWH 33.315 btu/h 0 138 "w c Total Heat Loss E.s.p. Blower DATA: Total Heat Gain 18,151 btu/h S/A Plenum Pressure 0.14 "w.c. Water Temp deg. F. W2 Combo System HL + 10% 36,646 Btuh. Heating Air Flow Proportioning Factor 0.0232 cfm/btuh AFUE Blower Speed Selected: ECM 96% **Blower Type Building Volume Vb** (Brushless DC OBC 12.3.1.5.(2)) 21801 ft3 Cooling Air Flow Proportioning Factor 0.0425 cfm/btuh Aux. Heat Ventilation Load 1.118 Btuh. R/A Temp SB-12 Package Package A1 Heating Check 772 cfm Cooling Check 772 cfm 70 dea. F. Ventilation PVC 79.5 cfm S/A Temp 116 deg. F. Supply Branch and Grill Sizing Diffuser loss 772 cfm Cooling Air Flow Rate 772 cfm 0.01 "w.c. Temp. Rise>>> 46 deg. F. Selected cfm> Level 1 Level 2 S/A Outlet No. 2 4 5 Room Use BASE BASE BASE KIT KIT FAM LAUN **PWD** FOY Btu/Outlet 3619 3619 3619 1722 1722 3718 609 474 3822 **Heating Airflow Rate CFM** 84 84 84 40 40 86 14 11 89 Cooling Airflow Rate CFM 14 14 14 97 97 114 47 54 3 0.13 0.13 **Duct Design Pressure** 0.13 **Actual Duct Length** 30 15 21 37 42 27 20 41 **Equivalent Length** 100 100 90 70 70 70 70 70 70 70 70 70 70 70 70 90 90 130 100 110 70 70 70 70 70 70 70 70 Total Effective Length 130 115 111 70 70 70 70 70 70 70 70 70 70 107 132 117 133 120 151 70 70 70 70 70 70 70 70 70 **Adjusted Pressure** 0.10 0.11 0.12 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.12 0.10 0.11 0.10 0.11 0.09 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 **Duct Size Round** 6 6 3 **Outlet Size** 4x10 3x10 3x10 4x10 Trunk В С Level 4 Level 3 S/A Outlet No. 10 12 15 11 13 14 Room Use MAST FNS RFD 4 BFD 3 BFD 2 RATH Btu/Outlet 2008 1511 1246 3077 2404 147 Heating Airflow Rate CFM 47 35 29 71 56 3 43 Cooling Airflow Rate CFN 86 33 81 71 3 **Duct Design Pressure** 0.13 45 **Actual Duct Length** 58 46 51 39 **Equivalent Length** 100 120 100 120 130 140 70 145 171 70 70 70 70 70 70 Total Effective Length 178 146 154 70 70 70 70 70 70 70 70 70 70 70 70 70 169 70 70 70 Adjusted Pressure 0.09 0.07 0.09 0.08 0.08 0.08 0.19 **Duct Size Round** 6 6 Outlet Size 4x10 4x10 3x10 3x10 3x10 4x10 Trunk R 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. CFM 1R 2R 3R 4R 5R 6R 7R 8R 9R 10R 11R Trunk CFM Press. Round Rect. Size Trunk Press. Round Rect. Size Inlet Air Volume CFM 126 316 105 105 120 **Duct Design Pressure** 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 772 0.06 14.0 24x10 444 0.07 11.0 14x8 10x10 Drop Α 562 199 0.07 8 5 7 30 39 28 z 0.06 12.5 R RYR 107 **Actual Duct Length** 6 18_Y8 14x10 **Equivalent Length** 155 175 155 150 135 50 50 50 50 50 50 Υ c 328 0.08 10.0 12x8 10x10 50 50 **Total Effective Length** 162 181 194 189 163 50 50 50 50 Х D 0.07 w Adjusted Pressure 0.06 0.06 0.06 0.07 0.24 0.24 0.24 0.24 0.24 0.24 Е Duct Size Round 6.0 10.0 6.0 6.0 7.0 ν F Inlet Size FLC G 8 н x Inlet Size 30 14 14 s

Q



♦ GTA DESIGNS

Heatloss/Gain Calculations CSA-F280-12

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e-mail dave@gtadesigns.ca

								/e@gtadesigns.ca				
	Builder:	Bayview Wellington	Date:	December 12, 20	023		Weather Data	a Bradford	44 -9.4	86 22 48.2		Page 4 Project # PJ-00204
2012 OBC	Project:	Green Valley	Model:	THWU-15E		System 1	Heat Loss ^	T 81.4 deg. F	Ht gain ^T	11 deg. F GTA:	1922	Layout # JB-04878
Level 1		BASE										
Run ft. exposed wall A	_	114 A	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α
Run ft. exposed wall B		В	В	В	В	В	В	В	В	В	В	В
Ceiling height		3.5 AG	3.5 AG	3.5 AG	3.5 AG	3.5 AG	3.5 AG	3.5 AG	3.5 AG	3.5 AG	3.5 AG	3.5 AG
Floor area Exposed Ceilings A		769 Area	Area	Area A	Area	Area	Area A	Area	Area	Area A	Area	Area A
Exposed Ceilings A Exposed Ceilings B		A B	A B	В	A B	A B	В	A B	A B	В	A B	В
Exposed Floors		Fir	Flr	Flr	Flr	Flr	Flr	Flr	Flr	Fir	Fir	Fir
Gross Exp Wall A		399										
Gross Exp Wall B												
Components North Shaded	R-Values Loss		ain Loss	Gain Loss G	ain Loss Gain	Loss Gain	Loss Gain	Loss Gain	n Loss Gain	n Loss Gain	Loss Gair	1 Loss Gain
East/West			356									
South			125									
WOB Windows	3.15 25.8	4 28.32										
Skylight	2.03 40.1											
Doors Net exposed walls A			198									
Net exposed walls B			190									
Exposed Ceilings A												
Exposed Ceilings B												
Exposed Floors												
Foundation Conductive Heatloss Total Conductive Heat Loss		5405										
Total Conductive Heat Gain			679									
Air Leakage Heat Loss/Gain			28									
Ventilation Case 1												
Ventilation Case 2			78									
Heat Gain People		239										
Appliances Loads		3156										
Duct and Pipe loss Level 1 HL Total 10,856		10% or per room 10856										
Level 1 HG Total 1,020	Total HG per		1020									
-	•	, , , , , , , , , , , , , , , , , , , ,										
Lavel 2		1/100	FAI		PWD	50 V						
Level 2 Run ft. exposed wall A		KIT 30 A	39 A	M LAUN 9 A	7 A	FOY 28 A	Α	Α	Α	A	Α	Α
Run ft. exposed wall B		В	В	В	В	В	В	В	В	В	В	В
Ceiling height		10.0	10.0	10.0	10.0	13.0	10.0	10.0	10.0	10.0	10.0	10.0
Floor area		217 Area	376 Area	75 Area	32 Area	68 Area	Area	Area	Area	Area	Area	Area
Exposed Ceilings A		A	A	A	A	A	A B	A B	A	A B	A	A
Exposed Ceilings B Exposed Floors		B Flr	B Fir	B Fir	B Flr	B Fir	Flr	Fir	B Fir	Б Flr	B Flr	B Fir
Gross Exp Wall A		300	390	90	70	364		• •	• •	• •	• •	
Gross Exp Wall B												
Components North Shaded	R-Values Loss 3.55 22.9		ain Loss	Gain Loss G	ain Loss Gain	Loss Gain	Loss Gain	Loss Gain	Loss Gain	n Loss Gain	Loss Gair	n Loss Gain
East/West			1504			13 298 356						
South	3.55 22.9		42 96	33 877		9 206 188						
Existing Windows								4				
Skylight Doors						36 733 99						
Net exposed walls A			158 348 166	3 225 90 430	58 70 335 45							
Net exposed walls B	8.50 9.5	8 1.29										
Exposed Ceilings A							\Box					
Exposed Ceilings B Exposed Floors												
	On Grade () or Ab	o x										
Total Conductive Heat Loss		2432	262		335	2700		\perp				
Heat Gain Air Leakage Heat Loss/Gain		0 0.0414 885	1663 69 95	1102 56 46 157	58 45 2 122 2	983 35						
Case 1	0.364		95	137	122	303 33						
Ventilation Case 2	14.0	7 11.88										
Case 3			191 13	36 127 22	7 17 5	139 97						
Heat Gain People Appliances Loads		239 3156 2.0	1578 1.0	789 1.0	789							
		10%		700 1.0								
Duct and Pipe loss	1	10 /0										
Duct and Pipe loss Level 2 HL Total 12,066 Level 2 HG Total 9,677		or per room 3443	4551 371		1113 68	3822						

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

Total Heat Loss 33,315 btu/h Division C subsection 3.2.5. of the Building Code. Individual BCIN: Total Heat Gain 18,151 btu/h

David DaCosta

SB-12 Package Package A1



♦GTA\DESIGNS

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	Wellington	Date:	December 12, 2023			Weather Data	Bradford	44 -9.4	86 22 48.2		Page 5
2012 OBC		n Valley	Model:	THWU-15E		System 1	Heat Loss ^T	81.4 deg. F	Ht gain ^T 11	I deg. F GTA:		oject # PJ-00204 ayout # JB-04878
Level 3		MAS [*] 17 A	T ENS 20 A	BED 4 13 A	BED 3 32 A	BED 2 16 A	BATH	Α				A
Run ft. exposed wall E		1/ A B	20 A B	B	32 A B	B	A B	В	A B	A B	A B	A B
Ceiling heigh		8.0	8.0	8.0	10.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Floor area		317 Area	105 Area	114 Area	152 Area	197 Area	63 Area	Area	Area	Area	Area	Area
Exposed Ceilings		317 A	105 A B	114 A B	152 A B	197 A B	63 A B	A B	A B	A B	A B	A B
Exposed Ceilings E Exposed Floors		B Flr	Flr	Flr	31 Flr	139 Fir	9 Fir	Flr	В Fir	Flr	Fir	Б Fir
Gross Exp Wall		136	160	104	320	128						
Gross Exp Wall E												
Components North Shaded	R-Values Loss Gain 3.55 22.93 1	0.91 Loss	Gain Loss Gair	Loss Gain	Loss Gain	Loss Gain	Loss Gain	Loss Gain	Loss Gain	Loss Gain	Loss Gain	Loss Gain
East/Wes		7.35 24 550	656 13 298	356	28 642 7	766 22 504 602						
Souti		0.89		16 367 334								
Existing Windows		2.15										
Skyligh Doors		8.23 2.75										
Net exposed walls A		0.65 112 535	72 147 703	95 88 421 57	292 1396 1	89 106 507 68						
Net exposed walls E	8.50 9.58	1.29										
Exposed Ceilings A	59.22 1.37	0.64 317 436	203 105 144	67 114 157 73	152 209	98 197 271 126	63 87 40					
Exposed Ceilings E Exposed Floors		1.66 0.17			31 85	5 139 380 23	9 25 2					
Foundation Conductive Heatloss	20.00				j. 00	25						
Total Conductive Heat Loss Heat Gain		1521		944	2331	1662 957 820	111 42					
Air Leakage Heat Loss/Gair		0414 408		21 253 19		44 446 34	30 2					
Ventilation Case		0.11										
Ventilation Case 2		1.88 0.11 79	9 107 59	60 49 53	120 1	21 86 94	6 5					
Heat Gain People	9 4 0.03	239 2	478	1 239		239 1 239	0 3					
Appliances Loads	1 = 25 percent 3	3156										
Duct and Pipe loss Level 3 HL Total 10,393	Total HL for per re	10% oom 2008	3 1511	1246	3077	1 211 106 2404	147					
Level 3 HG Total 7,454	Total HG per room			779 1008	19		63					
Level 4												
Run ft. exposed wall A		A	A	A B	A	A B	A	A B	A B	A	A B	A
Run ft. exposed wall E Ceiling heigh		В	В	В	В	В	В	В	В	В	В	В
Floor area		Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area
Exposed Ceilings A		Α	Α	A	Α	Α	Α	Α	Α	Α	Α	Α
Exposed Ceilings E		В	В	В	В	B	В	В	В	В	В	B
Exposed Floors Gross Exp Wall A		Flr	Flr	Fir	Flr	Fir	Flr	Flr	Flr	Fir	Flr	Fir
Gross Exp Wall E												
	R-Values Loss Gain		Gain Loss Gair	Loss Gain	Loss Gain	Loss Gain	Loss Gain	Loss Gain	Loss Gain	Loss Gain	Loss Gain	Loss Gain
North Shaded		0.91										
East/Wes Souti		0.89										
Existing Windows		2.15										
Skyligh	2.03 40.10 8	8.23										
Doors		2.75										
Net exposed walls A Net exposed walls B		0.65 1.29										
Exposed Ceilings A		0.64										
Exposed Ceilings E		1.66										
Exposed Floors	29.80 2.73	0.17										
Foundation Conductive Heatloss Total Conductive Heat Loss												
Heat Gair	n e											
Air Leakage Heat Loss/Gair		0414										
Ventilation Case 2		1.88										
Case:		0.11										
Heat Gain People		239										
Appliances Loads Duct and Pipe loss		10%										
Level 4 HL Total 0	Total HL for per re											
Level 4 HG Total 0	Total HG per room	x 1.3										

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

33,315 Total Heat Loss btu/h Total Heat Gain 18,151

Division C subsection 3.2.5. of the Building Code. Individual BCIN:

David DaCosta

SB-12 Package Package A1

1 2

3

4

Χ

Part 6 design

Project:



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

Project # Layout #

THWU-15E

Page 6 PJ-00204 JB-04878

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

David DaCosta

Model:

Package: Package A1

Bradford

System Design Option
Exhaust only / forced air system

HRV WITH DUCTING / forced air system

HRV simplified connection to forced air system

HRV full ducting/not coupled to forced air system

	NTIAL MECHANICAL Nems serving one dwelling unit & conf			
Location of Ir		Total Ver	ntilation Capacity 9.32.3.	3(1)
Lot #	Plan #	Bsmt & Master Bdrm	2 @ 21.2 cfi	m 42.4 cfm
Township Bra	adford	Other Bedrooms Bathrooms & Kitchen	3 @ 10.6 cfi 4 @ 10.6 cfi	m 31.8 cfm
Roll #	Permit #	Other rooms	3 @ 10.6 cfı Total	
Address				<u> </u>
D.:III		Principal V	entilation Capacity 9.32.	3.4(1)
Name Build	er	Master bedroom	1 @ 31.8 cfi	m 31.8 cfm
	v Wellington	Other bedrooms	3 @ 15.9 cfi	
Address		0.1101.200.110	Total	79.5
City				
City		Princi	pal Exhaust Fan Capacit	V
Tel	Fax	Make	Model	Location
				_
		LifeBreath	RNC155	Base
Installing Co	ontractor	132 cfm		Sones or Equiv.
Name		132 6111		Oories of Equiv.
Address		Hea	at Recovery Ventilator	
		Make	LifeBreath	
City		Model	RNC155	
Tel	Fax	Sensible efficiency @ -2	32 cfm high	80 cfm low 71%
l ei	rax	Sensible efficiency @ 0		71% 75%
			nce HRV/ERV to within 10	
Combustion Applia	inces 9.32.3.1(1)		nental Ventilation Capac	
a) x Direct vent (sealed co		•	•	•
	ed draft (except fireplaces)	Total ventilation capacit		148.4
	r induced draft fireplaces	Less principal exhaust of		79.5
d) Solid fuel (including fir		REQUIRED supplemen	tal vent. Capacity	68.9 cfm
e) No combustion Applia	nces			
		Supr	olemental Fans 9.32.3.5.	
Heating S	System	Location	cfm Model	Sones
x Forced air	ystem	Ens	50 XB50	0.3
Non forced air		Bath	50 XB50	0.3
Electric space heat (if	over 10% of heat load)			
. ,	,			
House Type 9		all fama I N/I linta d	Mala Dasas	- i
I x Type a) or b) applianc	•	all fans HVI listed	Make Broan	or Equiv.
II Type I except with soli III Any type c) appliance	d fuel (including fireplace)		esigner Certification	
IV Type I or II either elect	tric space heat		ventilation system has be	en designed
Other Type I, II or IV no force		in accordance with the (5 300igi10a

	Designer	Sertification					
I hereby certify t	I hereby certify that this ventilation system has been designed						
in accordance w	ith the Ontario B	uilding Code.					
		•					
Name	David D	aCosta					
	Mane Met						
Signature	- Carre	400					
HRAI#	5190	BCIN #	32964				
Date December 12, 2023							
· ·							

REVIEWED



Energy Efficiency Design Summary: Prescriptive Method

(Building Code Part 9, Residential)

Page 7

Project # PJ-00204 Layout # JB-04878

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 us	e by Princi	pal Authori	tv				
Application No:			. 0. 40				ımher			
***************************************					Model/Certification Number					
A During the forms of the										
A. Project Information Building number, street name							Unit nu	mhor	Lot/Con	
Building humber, street hame			T. 114/1.1	455			Official	IIIDGI	LowCon	
Municipality Bradford			THWU- Postal co		Dog Dlan	number / ot	hor doce	rintion		
Bradford			i Ostai CC	de	ixeg. i iaii	number / ot	ilei desc	приоп		
					L					
B. Prescriptive Compliance [indica	te the bu	ilding cod	e complia	ance packa	age being e	mployed in	the hou	se design]		
SB-12 Prescriptive (input design pa	ckage):			Pack	age A1			Table	e: <u>3.1.1.2.</u>	<u>A</u>
C. Project Design Conditions										
Climatic Zone (SB-1):		Heat. E	quip. E	fficiency			Sp	ace Heating	Fuel Sour	ce
Zone 1 (< 5000 degree days)		√ ≥ 92	2% AFUE		V	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	a			Othe	r Building C	haracteris	
					☐ Log/F	ost&Beam	[ICF Above	e Grade	☐ ICF Basement
Area of Walls = 302.53 m ² or 3256.4	ft²	W,S &	G % =	<u>7%</u>	☐ Slab-	on-ground		Walkout E	Basement	
		<u> </u>			☑ Air C	onditioning		Combo Ui	nit	
Area of W, S & G = 22.389 m ² or 241.0	ft²	Utilize \	Vindow	☐ Yes	☐ Air S	ourced Hea	at Pump	(ASHP)		
		Avera		☑ No	☐ Grou	nd Source	Heat Pu	mp (GSHP)		
D. Building Specifications [provide	values a	nd ratings	of the e	nergy effic	iency comp	onents pro	posedl			
Energy Efficiency Substitutions						·				
☐ ICF (3.1.1.2.(5) & (6) / 3.1.1.3.(5))										
Combined space heating and domestic	water he	ating syst	tems (3.1	.1.2(7) / 3.	1.1.3.(7))					
Airtightness substitution(s)		Table 3.1	I.1.4.B	Required:				Permitted	Substitution	n:
Airtightness test required		Table 2.4	1440	Required:				Permitted	Substitution	n:
(Refer to Design Guide Attached)		Table 3.1	1.1.4.0	Required:				Permitted	Substitution	n:
Building Component		mum RS Naximun				Buil	ding C	omponent		Efficiency Ratings
Thermal Insulation	Non	ninal	Effe	ective	Windov	vs & Doo	rs Prov	ride U-Value ⁽¹⁾	or ER rating	9
Ceiling with Attic Space	6	60				s/Sliding G				1.6
Ceiling without Attic Space	3	1			Skylights	;				2.8
Exposed Floor	3	1			Mechar	nicals				-
Walls Above Grade	22				Heating	Equip.(AFI	UE)			96%
Basement Walls		20.0ci			HRV Eff	ciency (SF	RE% at ()°C)		75%
Slab (all >600mm below grade))	x			1	eater (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			Combine	ed Heating	Syster	n		
(1) U value to be provided in either W/(m²·K) or Bt	u/(h·ft·F) b	out not bot	th.		•					•
E. Designer(s) [name(s) & BCIN(s), if	applicable	e, of perso	on(s) prov	viding infor	mation her	ein to subs	tantiate	that design me	ets building	code]
Name		•		BCIN		Signature				_
David DaCosta				329	964			Mane	14C=	\



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

Page 8 PJ-00204 Project # JB-04878 Layout #

Package: Package A1 System: System 1 Project: **Bradford** Model: THWU-15E

Air Leakage Calculations

Building Air Leakage Heat Loss									
В	LRairh	Vb	HL^T	HLleak					
0.018 0.324 21801 81.4 10343									

	Building Air Leakage Heat Gain									
В	B LRairh Vb HG^T HG Leak									
0.018 0.079 21801 11 341										

	Air Leakage Heat Loss/Gain Multiplier Table (Section 11)								
Level Building Level Conductive Air Leakage He									
Level	Factor (LF)	Air	Heat Loss	Multiplier					
Level 1	0.5		5405	0.9567					
Level 2	0.3	10343	8523	0.3640					
Level 3	0.2	10343	7715	0.2681					
Level 4	0		0	0.0000					

		Air Leakage Heat Gain
HG LEAK	341	0.0414
BUILDING CONDUCTIVE HEAT GAIN	8220	0.0414

	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					
C PVC HL^T (1-E) HRV HLbvent					
1.08	79.5	81.4	0.16	1118	

Case 1

Ventilation Heat Loss

V			entilation h	leat Gain	
	C PVC HG^T HGbvent				
	1.1	79.5	11	944	

Ventilation Heat Gain

Case 1

Case 2 **Ventilation Heat Gain (Direct Ducted Systems)**

Case 3

Ventilation Heat Gain (Exhaust Only Systems)

Ventilation Heat Loss (Exhaust only Systems)	
Case 1 - Exhaust Only	

Case 1 - Exhaust Only					
Level LF HLbvent LVL Cond. HL Multiplier					
Level 1	0.5		5405	0.10	
Level 2	0.3	1118	8523	0.04	
Level 3	0.2	1110	7715	0.03	
Level 4	0		0	0.00	

Case 1 - Exhaust Only		Multiplier
HGbvent	944	0.11
Building	8220	0.11

Case 2	
Ventilation Heat Loss (Direct Ducted Systems)	
Multiplier	

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

		Multiplier	
С	HG^T	11.88	
1.08	11		

Ventilation Heat Loss (Forced Air Systems)	

	HLbvent	Multiplier
Total Ventilation Load	1118	0.05

Case 3

Ventilation Heat Gain (Forced Air Systems)			_	
		Vent Heat Gain	Multiplier	
HGbvent	HG*1.3	944	0.11	
		777	0.11	

Foundation Conductive Heatloss Level 1 1457	Watts	4970	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):	6.55		
Building Confi	guration		
Type:	Semi-Detached		
Number of Stories:	Two		
Foundation:	Shallow		
House Volume (m³):	617.39		
Air Leakage/Ve	entilation		
Air Tightness Type:	Present (1961-) (ACH=3.57)		
	ELA @ 10 Pa. 322,44 cm²		
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):	0.324		
Cooling Air Leakage Rate (ACH/H):	0.079		

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):	18.17				
Floor Width (m):	3.93				
Exposed Perimeter (m):	34.75				
Wall Height (m):	2.59				
Depth Below Grade (m):	1.52	Insulation Configuration			
Window Area (m²):	1.77				
Door Area (m²):	0.00				
	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):	Heating Load (Watts): 1457				

FLEX DUCT
RIGID ROUND DUCT
SUPPLY DIFFUSER

LOW/F

DI-- HRV E

SUPPL

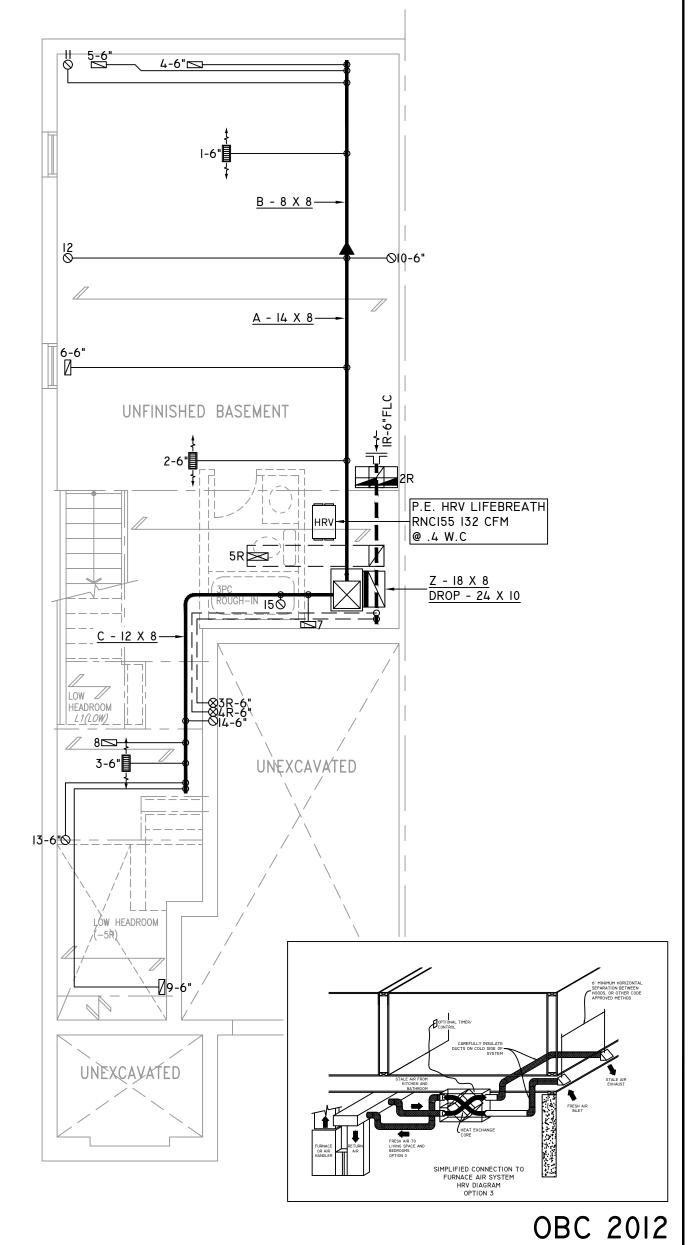
LOW/HIGH WALL/KICK SUPPLY DIFFUSER HRV EXHAUST GRILLE SUPPLY AIR PIPE RISER VOLUME DAMPER



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

S.A R.A T \$

SUPPLY AIR
RETURN AIR
THERMOSTAT
PRINCIPAL EXHAUST FAN SWITCH



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

FURNACE EQUIPPED WITH BRUSHLESS DC MOTOR AS PER OBC 12.3.1.5 (2)

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 ONTARIO BUILDING CODE

DAVID DA COSTA

SIGNATURE OF DESIGNER

B.C.I.N. 3296

BASEMENT PLAN 'A'/ 'B'

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.
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.

♦GTA\DESIGNS

2985 DREW ROAD SUITE 202, MISSISSAUGA, ONT.

MISSISSAUGA, ONT.

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WEB: WWW.GTADESIGNS.CA

33,315	BTU/HR.	H
33,315		ı
UNIT MAKE	OR EQUAL.	H
AMANA		H
UNIT MODEL	OR EQUAL.	Н
AMEC960403ANA		H
UNIT HEATING INPUT	BTU/HR.	ı
40,000		H
UNIT HEATING OUTPUT	BTU/HR.	li
38,400		H
A/C COOLING CAPACITY	TONS.	ı
2.0		H
FAN SPEED	CFM	Н
772		Н

# OF RUNS	S/A	R/A	FANS	DATE:
3RD FLOOR				CLIENT:
2ND FLOOR	6	3	2	BAY
IST FLOOR	6	I	3	MODEL:
BASEMENT	3	- 1		
ELOOD DI ANI				PROJEC

BASEMENT

DD

JB-04878

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1922

МІ

BAYVIEW WELLINGTON

MODEL:

THWU-I5E

PROJECT:
GREEN VALLEY
BRADFORD,ONT.

SCALE: 3/16" = 1'-0"

DECEMBER 12, 2023

FLEX DUCT RIGID ROUND DUCT SUPPLY DIFFUSER

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



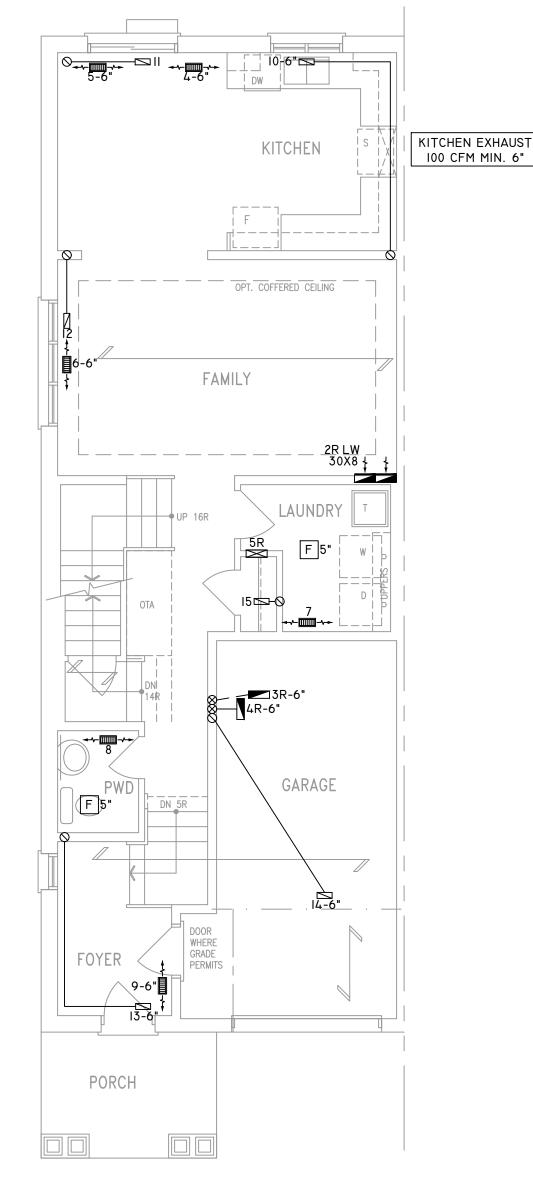
DUCT CONNECTION TO JOIST LINING RETURN AIR PIPE RISER RETURN ROUND DUCT

4

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



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

CIRCULATION PRINCIPAL FAN SWITCH TO BE CENTRALLY LOCATED

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 ONTARIO BUILDING CODE

GROUND FLOOR PLAN 'A'/ 'B'

HEAT-LOSS

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.



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33,315	H
UNIT MAKE OR EQUAL.	П
AMANA	II
UNIT MODEL OR EQUAL.	П
AMEC960403ANA	
UNIT HEATING INPUT BTU/HR.	Н
40,000	Ш
UNIT HEATING OUTPUT BTU/HR.	١.
38,400	П
A/C COOLING CAPACITY TONS.	Н
2.0	
FAN SPEED CFM	Н
772	П

-				=
# OF RUNS	S/A	R/A	FANS	
3RD FLOOR				H
2ND FLOOR	9	3	2	
IST FLOOR	6	I	3	Г
BASEMENT	3	- 1		ı
FLOOR PLAN: GROUND		OR		ľ

DD

JB-04878

1922

M2

DECEMBER 12, 2023
CLIENT: BAYVIEW WELLINGTON
MODEL:
THWU-I5E
PROJECT:

BRADFORD, ONT.

3/16" = 1'-0"

FLEX DUCT RIGID ROUND DUCT SUPPLY DIFFUSER

a)-+ 0

LOW/HIGH WALL/KICK SUPPLY DIFFUSER HRV EXHAUST GRILLE SUPPLY AIR PIPE RISER VOLUME DAMPER



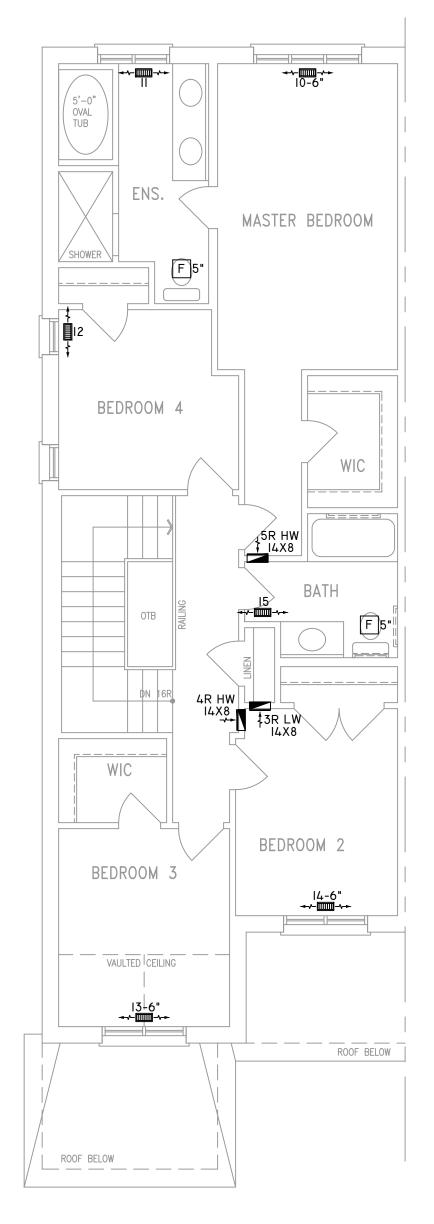
DUCT CONNECTION TO JOIST LINING RETURN AIR PIPE RISER RETURN ROUND DUCT

4 \mathbf{x}

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

Jane 1866 B.C.I.N. 32964

SECOND FLOOR PLAN 'A'

OBC 2012

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



2985 DREW ROAD

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HEAT-LOSS	BTU/HR.
33,315	
UNIT MAKE	OR EQUAL.
AMANA	
UNIT MODEL	OR EQUAL.
AMEC960403ANA	-
UNIT HEATING INPUT	BTU/HR.
40,000	
UNIT HEATING OUTPUT	BTU/HR.
38,400	
A/C COOLING CAPACITY	TONS.
2.0	
FAN SPEED	CFM
772	
•	

FAN	R/A	S/A	RUNS	# OF
			FLOOR	3RD F
2	3	6	FLOOR	2ND F
,	I	6	LOOR	IST F
	ı	3	MENT	BASE
	0R	FLO	SECOND	
_		SQFT	CHECKED:	RAWN BY:
2	192		DD	JL
- 7		3	6 3 6 1 3 1	FLOOR 6 3 FLOOR 6 1 MENT 3 1 SECOND FLOOR CHECKED: SOFT

M3

JB-04878

DECEMBER 12, 2023
BAYVIEW WELLINGTON
MODEL:
THWU-I5E
PROJECT:

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

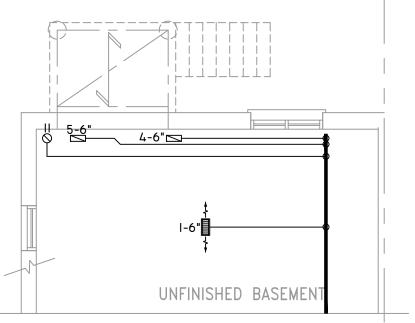
DUCT CONNECTION TO JOIST LINING RETURN AIR PIPE RISER RETURN ROUND DUCT

4 \boxtimes

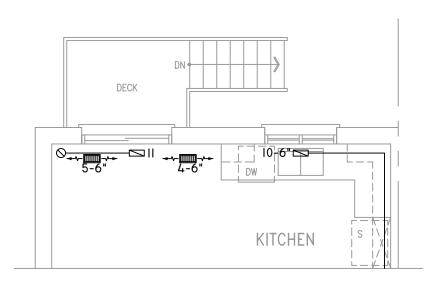
RETURN AIR GRILLE (SIZE INDICATED ON DRAWING) RETURN AIR RISER UP TO FLOOR ABOVE RETURN AIR FROM BASEMENT SECOND FLOOR

R.A 1

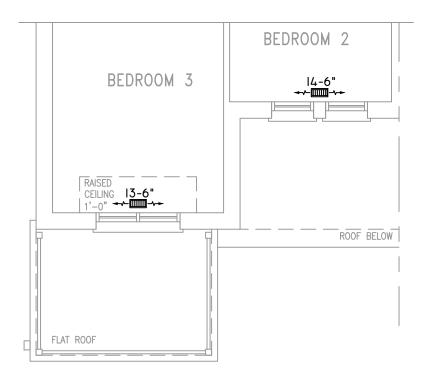
SUPPLY AIR RETURN AIR THERMOSTAT PRINCIPAL EXHAUST FAN SWITCH W/R & PRINCIPAL EXHAUST FAN



PARTIAL BASEMENT PLAN W.O.D. CONDITION (9R OR GREATER)



PARTIAL GROUND FLOOR PLAN W.O.D. CONDITION (9R OR GREATER)



PARTIAL SECOND FLOOR 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

B.C.I.N. 32964

OBC 2012

DECEMBER 12, 2023

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

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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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WW.GTADESIGNS.CA	

HEAT-LOSS	BTU/HR.
33,315	
UNIT MAKE	OR EQUAL.
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UNIT HEATING INPUT	BTU/HR.
40,000	
UNIT HEATING OUTPUT	BTU/HR.
38,400	
A/C COOLING CAPACITY	TONS.
2.0	
FAN SPEED	CFM
772	

DATE:	FANS	R/A	S/A	RUNS	# OF
CLIEN				FLOOR	3RD F
BA	2	3	6	LOOR	2ND F
MODE	3	I	6	LOOR	IST F
		I	3	MENT	BASE
PROJE	==				
I KOOL		1(S)	PLAN	: ARTIAL I	FLOOR PLAN
		100	SQFT	CHECKED:	DRAWN BY:

DD

JB-04878

1922

M4

ł	CLIENT: BAYVIEW WELLINGTON
1	MODEL:
ł	THWU-I5E
l	
1	GREEN VALLEY BRADFORD,ONT.
-	CCALE

3/16" = 1'-0"