

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 Baross	sa 3		Lot:	
S38-	3		Lot/con.	
Municipality Bradford	Postal code	Plan number/ other description		
B. Individual who reviews and takes responsibility for design	gn activities			
Name David DaCosta		Firm	gtaDesigns Inc.	
Street address 2985 Drew Roa	d, Suite 202			Lot/con.
Municipality Mississauga	Postal code L4T 0A4	Province Ontario	E-mail <u>hvac@gtadesi</u>	gns.ca
Telephone number (905) 671-9800	Fax number		Cell number	
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 Po	wer	☐ Plumbing – All Buildings	
☐ Complex Buildings ☐ Fire Protect	ction		☐ On-site Sewage System	S
Description of designer's work Mod	del Certification	1	Project #:	PJ-00041
Heating and Cooling Load Calculations Main	X	Duildor	Layout #:	JB-07351
Heating and Cooling Load Calculations Main Air System Design Alternate	^	Builder Project	Bayview Wellingto Green Valley East	
Residential mechanical ventilation Design Summary Area Sq ft:	2544		Barossa 3	
Residential System Design per CAN/CSA-F280-12		Model	S38-3	
Residential New Construction - Forced Air		SB-12	Package A1	
D. Declaration of Designer				
David DaCosta	declare that (d	choose one as appro	priate):	
(print name)				
☐ I review and take responsibility for 3.2.4 Division C of the Building Cod				
classes/categories.	,,,,,	.,		
Individual BCIN:			ı	
Firm BCIN:				
Individual BCIN:	3296	64		
Basis for exemp	tion from registr	ation:	Division C 3.2.4.1. (4)	
☐ The design work is exempt from the	e registration and	d qualification requirem	ents of the Building Code.	
Basis for exemp	tion from registr	ation 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.			
July 21, 2021		Mane Sto		
Date		Signature of Des	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.

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 e-mail hvac@gtadesigns.ca

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	Heat los	s and gain	calcula	ition su	mmary she	et	CSA-F280-M12		ndard No. 1
These document	s issued for the use of			yview Welling	-		Layou		
and may not be u	used by any other persons	without authorization.	Documents	for permit and	or construction are	signed in red.	JB-0		
·			uilding L	•					
Address (Model):	: \$38-3			Site:	Green Valley East				
Model:	Barossa 3			Lot:					
City and Province	e: Bradford			Postal code:					
		Cal	culations	based or	1				
Dimensional info	rmation based on:			VA3 Desi	ign13/May/2021				
Attachment:	Detached			Front facing:	East/West		Assumed	l?	Yes
No. of Levels:	3 Ver	ntilated? Included		Air tightness:	1961-Present	(ACH=3.57)	Assumed	l? '	Yes
Weather location	n: Bradford			Wind exposu	re: Sheltered				
HRV?	VanEE	V150H7	5NS	Internal shad	ling: Light-translu	cent Occu	oants:	5	
Sensible Eff. at -	25C 60% App	parent Effect. at -0C	83%	Units:	Imperi	al Area	Sq ft:	2544	
Sensible Eff. at -	0C 75 %								
	Heating design c	onditions			Cooling de	sign condi	tions		
Outdoor temp	-9.4 Indoor temp: 72	2 Mean soil temp:	48	Outdoor temp	p 86 Indoor ter	mp: 75 Lat	itude:	44	
	Above grade	walls			Below	grade wall	S		
Style A: As p	per OBC SB12 Packa	age A1 R 22		Style A: A	s per OBC SB12	Package A1		R	20ci
Style B:				Style B:					
Style C:				Style C:					
Style D:				Style D:					
	Floors on	soil			C	eilings			
Style A: As	per Selected OBC SB12	Package A1		Style A:	As per Selected OB	C SB12 F	ackage A1	R	60
Style B:				Style B:	As per Selected OB	C SB12 F	ackage A1	R	31
	Exposed flo	oors		Style C:					
Style A: As	per Selected OBC SB12	Package A1	R 31			Doors			
Style B:				Style A:	As per Selected OB	C SB12 F	ackage A1	R	4.00
	Window	s		Style B:					
Style A: As	per Selected OBC SB12	Package A1	R 3.55	Style C:					
Style B:					SI	kylights			
Style C:				Style A:	As per Selected OB	C SB12 F	ackage A1	R	2.03
Style D:				Style B:					
Attached docume	ents: As per She	dule 1	Heat Loss/0	ain Caculatio	ons based on CSA-	F280-12 Effect	tive R-Values		
Notes:		Reside	ential New C	onstruction -	Forced Air				
		Calcu	ulations p	erformed l	ру				
Name:	David DaCosta			Postal code:	L4T 0A4				
Company:	gtaDesigns Inc.			Telephone:	(905) 671-980	0			
Address:	2985 Drew Road, Sui	ite 202		Fax:					
City:	Mississauga			E-mail					



Builder: Bayview Wellington

Air System Design

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

Date: July 21, 2021 Barossa 3

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 #

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Project: Green V	Valley Eas	st		Model:			Baros S38					Sys	stem 1			uilding Co idividual E		32964	Ma	ne 160	A		David DaCo	osta		oject # yout #	PJ- JB-	-07351
DESIGN LOAD SPECIFICATION	IS		7	AIR DISTR	RIBUTION	& PRESSU	JRE				FU	JRNACE/A	IR HANDLE	ER DATA	\ :			BOILER/W	ATER HEA	TER DAT	A:			1	A/C UNIT D	ATA:		
-		•	_													•	-							_				-
Level 1 Net Load	18,405 b	otu/h	E	Equipmen	t External	Static Pre	essure		0.5 "	w.c.	Ma	ake		Aman	а			Make			Ty	/pe		A	Amana		2.5 T	on
Level 2 Net Load	18,930 k	otu/h	,	Additional	I Equipme	nt Pressur	re Drop		0.225 "	w.c.	Mo	odel	AM	/IEC96060	03ANA		1	Model						(Cond		2.5	
Level 3 Net Load	17,668 b	otu/h			Design Pr				0.275 "		Inp	put Btu/h		60000				Input Btu/I						C	Coil		2.5	
Level 4 Net Load		otu/h				gest Effect	ive Lengt	:h	300 ft			utput Btu/h	1	57600				Output Btu										
Total Heat Loss	55,002 k				m Pressui				0.138 "			s.p.		0.50		W.C.		Min.Outpu	t Btu/h		Al	WH						
Total Heat Gain	28,387 k	otu/h		S/A Plenu	m Pressur	e			0.14 "	w.c.		ater Temp			d	eg. F.						Blo	wer DATA	:				
				_		oportionin	-		0.0169 c			TUE		96%			- 1	Blower Sp	eed Select	ed:	W2			E	Blower Typ		СМ	
Building Volume Vb	33025 f		(Cooling A	ir Flow Pr	oportionin	-		0.0327 c			ıx. Heat		_											•		3C 12.3.1.	,
Ventilation Load	1,188 E						R/A Temp			eg. F.	SB	3-12 Packa	ge	Package	e A1			Heating Cl	neck	929 cf	m			(Cooling Ch	eck	929 c	fm
Ventilation PVC	79.5 0	fm		D!#			S/A Temp		127 d	eg. F.	т.	Di		F7 4-				0-141 -		000 -4			•	II A !	- Fl D-1	_	000 -	•
Supply Branch and Grill Sizing				Diffuser lo	ess =	0.01	w.c.				ie	mp. Rise>	^{>>}	<u>57</u> de	eg. F.		,	Selected c	^{tm>} =	929 cf	m		C	ooling Ai	ir Flow Rat	e =	<u>929</u> c	TIM .
							Leve	el 1													Level	2						
S/A Outlet No.	1	2	3	4										-	5	6	7	8	9	10								
Room Use	BASE	BASE	BASE	BASE											KIT	KIT	GRT	LAUND	FOY	DIN								
Btu/Outlet	4601	4601	4601	4601											2160	2160	3727	2435	4139	4308								
Heating Airflow Rate CFM	78	78	78	78											36	36	63	41	70	73								
Cooling Airflow Rate CFM	16	16	16	16											87	87	96	60	76	91								
Duct Design Pressure	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Actual Duct Length	24	42	25	41											33	39	46	25	27	5								
Equivalent Length	90	120	70	110	70	70	70	70	70	70	70	70	70	70	80	130	110	170	110	130	70	70	70	70	70	70	70	70
Total Effective Length	114	162	95	151	70	70	70	70	70	70	70	70	70	70	113	169	156	195	137	135	70	70	70	70	70	70	70	70
Adjusted Pressure	0.11	0.08	0.14	0.09	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.12	0.08	0.08	0.07	0.09	0.10	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
Duct Size Round	6	6	6	6											6	6	6	5	6	6								
Outlet Size	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	3x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10
Trunk	Α	В	Α	С											Α	В	В	С	С	Α								
							Leve														Level	4						
S/A Outlet No.	11	12	13	14	15	16	17	18	19	20											Level	4						
Room Use	MAST	MAST	BED 2	BATH	BED 3	BED 3	17 LOFT	18 BED 4	ENS 2	ENS											Level	4						
Room Use Btu/Outlet	MAST 1705	MAST 1705	BED 2 1748	BATH 1675	BED 3 1907	BED 3 1907	17 LOFT 3247	18 BED 4 1361	ENS 2 638	ENS 1777											Level	4						
Room Use Btu/Outlet Heating Airflow Rate CFM	MAST 1705 29	MAST 1705 29	BED 2 1748 30	BATH 1675 28	BED 3 1907 32	BED 3 1907 32	17 LOFT 3247 55	18 BED 4 1361 23	ENS 2 638 11	ENS 1777 30											Level	4						
Room Use Btu/Outlet Heating Airflow Rate CFM Cooling Airflow Rate CFM	MAST 1705 29 41	MAST 1705 29 41	BED 2 1748 30 28	BATH 1675 28 24	BED 3 1907 32 46	BED 3 1907 32 46	17 LOFT 3247 55 70	18 BED 4 1361 23 34	ENS 2 638 11 11	ENS 1777 30 27	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42			0.42	0.42	0.42	0.42	0.42	0.12
Room Use Btu/Outlet Heating Airflow Rate CFM Cooling Airflow Rate CFM Duct Design Pressure	MAST 1705 29 41 0.13	MAST 1705 29 41 0.13	BED 2 1748 30 28 0.13	BATH 1675 28 24 0.13	BED 3 1907 32 46 0.13	BED 3 1907 32 46 0.13	17 LOFT 3247 55 70 0.13	18 BED 4 1361 23 34 0.13	ENS 2 638 11 11 0.13	ENS 1777 30 27 0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Room Use Btu/Outlet Heating Airflow Rate CFM Cooling Airflow Rate CFM Duct Design Pressure Actual Duct Length	MAST 1705 29 41 0.13 49	MAST 1705 29 41 0.13 61	BED 2 1748 30 28 0.13 54	BATH 1675 28 24 0.13 42	BED 3 1907 32 46 0.13 43	BED 3 1907 32 46 0.13 39	17 LOFT 3247 55 70 0.13 36	18 BED 4 1361 23 34 0.13	ENS 2 638 11 11 0.13	ENS 1777 30 27 0.13 29											0.13	0.13						
Room Use Btu/Outlet Heating Airflow Rate CFM Cooling Airflow Rate CFM Duct Design Pressure Actual Duct Length Equivalent Length	MAST 1705 29 41 0.13 49	MAST 1705 29 41 0.13 61 120	BED 2 1748 30 28 0.13 54 150	BATH 1675 28 24 0.13 42 160	BED 3 1907 32 46 0.13 43 150	BED 3 1907 32 46 0.13 39 140	17 LOFT 3247 55 70 0.13 36 120	18 BED 4 1361 23 34 0.13 34 150	ENS 2 638 11 11 0.13 24 120	ENS 1777 30 27 0.13 29 140	70	70	70	70	70	70	70	70	70	70	0.13 70	0.13 70	70	70	70	70	70	70
Room Use Btu/Outlet Heating Airflow Rate CFM Cooling Airflow Rate CFM Duct Design Pressure Actual Duct Length Equivalent Length Total Effective Length	MAST 1705 29 41 0.13 49 140	MAST 1705 29 41 0.13 61 120 181	BED 2 1748 30 28 0.13 54 150 204	BATH 1675 28 24 0.13 42 160 202	BED 3 1907 32 46 0.13 43 150 193	BED 3 1907 32 46 0.13 39 140 179	17 LOFT 3247 55 70 0.13 36 120 156	18 BED 4 1361 23 34 0.13 34 150	ENS 2 638 11 11 0.13 24 120 144	ENS 1777 30 27 0.13 29 140 169	70 70	70 70	70 70	70 70	70 70	70 70	70 70	70 70	70 70	70 70	0.13 70 70	0.13 70 70	70 70	70 70	70 70	70 70	70 70	70 70
Room Use Btu/Outlet Heating Airflow Rate CFM Cooling Airflow Rate CFM Duct Design Pressure Actual Duct Length Equivalent Length Total Effective Length Adjusted Pressure	MAST 1705 29 41 0.13 49 140 189 0.07	MAST 1705 29 41 0.13 61 120 181 0.07	BED 2 1748 30 28 0.13 54 150 204 0.06	BATH 1675 28 24 0.13 42 160	BED 3 1907 32 46 0.13 43 150 193 0.07	BED 3 1907 32 46 0.13 39 140 179 0.07	17 LOFT 3247 55 70 0.13 36 120 156	18 BED 4 1361 23 34 0.13 34 150 184 0.07	ENS 2 638 11 11 0.13 24 120 144 0.09	ENS 1777 30 27 0.13 29 140	70	70	70	70	70	70	70	70	70	70	0.13 70	0.13 70	70	70	70	70	70	70
Room Use Btu/Outlet Heating Airflow Rate CFM Cooling Airflow Rate CFM Duct Design Pressure Actual Duct Length Equivalent Length Total Effective Length Adjusted Pressure Duct Size Round	MAST 1705 29 41 0.13 49 140 189 0.07	MAST 1705 29 41 0.13 61 120 181 0.07 5	BED 2 1748 30 28 0.13 54 150 204 0.06	BATH 1675 28 24 0.13 42 160 202 0.06 4	BED 3 1907 32 46 0.13 43 150 193 0.07	BED 3 1907 32 46 0.13 39 140 179 0.07 5	17 LOFT 3247 55 70 0.13 36 120 156 0.08 6	18 BED 4 1361 23 34 0.13 34 150 184 0.07 4	ENS 2 638 11 11 0.13 24 120 144 0.09	ENS 1777 30 27 0.13 29 140 169 0.08	70 70 0.19	70 70 0.19	70 70 0.19	70 70 0.19	70 70 0.19	70 70 0.19	70 70 0.19	70 70 0.19	70 70 0.19	70 70 0.19	0.13 70 70 0.19	0.13 70 70 0.19	70 70 0.19	70 70 0.19	70 70 0.19	70 70 0.19	70 70 0.19	70 70 0.19
Room Use Btu/Outlet Heating Airflow Rate CFM Cooling Airflow Rate CFM Duct Design Pressure Actual Duct Length Equivalent Length Total Effective Length Adjusted Pressure Duct Size Round Outlet Size	MAST 1705 29 41 0.13 49 140 189 0.07	MAST 1705 29 41 0.13 61 120 181 0.07	BED 2 1748 30 28 0.13 54 150 204 0.06	BATH 1675 28 24 0.13 42 160 202	BED 3 1907 32 46 0.13 43 150 193 0.07	BED 3 1907 32 46 0.13 39 140 179 0.07	17 LOFT 3247 55 70 0.13 36 120 156	18 BED 4 1361 23 34 0.13 34 150 184 0.07	ENS 2 638 11 11 0.13 24 120 144 0.09	ENS 1777 30 27 0.13 29 140 169	70 70	70 70	70 70 0.19	70 70	70 70	70 70	70 70	70 70	70 70	70 70	0.13 70 70	0.13 70 70	70 70	70 70	70 70	70 70	70 70	70 70
Room Use Btu/Outlet Heating Airflow Rate CFM Cooling Airflow Rate CFM Duct Design Pressure Actual Duct Length Equivalent Length Total Effective Length Adjusted Pressure Duct Size Round	MAST 1705 29 41 0.13 49 140 189 0.07 5	MAST 1705 29 41 0.13 61 120 181 0.07 5	BED 2 1748 30 28 0.13 54 150 204 0.06 4 3x10	BATH 1675 28 24 0.13 42 160 202 0.06 4 3x10	BED 3 1907 32 46 0.13 43 150 193 0.07 5	BED 3 1907 32 46 0.13 39 140 179 0.07 5 3x10	17 LOFT 3247 55 70 0.13 36 120 156 0.08 6	18 BED 4 1361 23 34 0.13 34 150 184 0.07 4	ENS 2 638 11 11 0.13 24 120 144 0.09 3 3x10	ENS 1777 30 27 0.13 29 140 169 0.08 4 3x10	70 70 0.19	70 70 0.19	70 70 0.19	70 70 0.19	70 70 0.19	70 70 0.19	70 70 0.19	70 70 0.19	70 70 0.19	70 70 0.19	0.13 70 70 0.19	0.13 70 70 0.19	70 70 0.19	70 70 0.19	70 70 0.19	70 70 0.19	70 70 0.19	70 70 0.19
Room Use Btu/Outlet Heating Airflow Rate CFM Cooling Airflow Rate CFM Duct Design Pressure Actual Duct Length Equivalent Length Total Effective Length Adjusted Pressure Duct Size Round Outlet Size	MAST 1705 29 41 0.13 49 140 189 0.07 5 3x10 B	MAST 1705 29 41 0.13 61 120 181 0.07 5 3x10 B	BED 2 1748 30 28 0.13 54 150 204 0.06 4 3x10	BATH 1675 28 24 0.13 42 160 202 0.06 4 3x10 C	BED 3 1907 32 46 0.13 43 150 193 0.07 5	BED 3 1907 32 46 0.13 39 140 179 0.07 5 3x10	17 LOFT 3247 55 70 0.13 36 120 156 0.08 6 4x10 C	18 BED 4 1361 23 34 0.13 34 150 184 0.07 4	ENS 2 638 11 11 0.13 24 120 144 0.09 3 3x10	ENS 1777 30 27 0.13 29 140 169 0.08 4 3x10	70 70 0.19	70 70 0.19 4x10	70 70 0.19	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19	70 70 0.19	70 70 0.19	70 70 0.19	70 70 0.19 4x10	0.13 70 70 0.19	0.13 70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19	70 70 0.19	70 70 0.19	70 70 0.19	70 70 0.19
Room Use Btu/Outlet Heating Airflow Rate CFM Cooling Airflow Rate CFM Duct Design Pressure Actual Duct Length Equivalent Length Total Effective Length Adjusted Pressure Duct Size Round Outlet Size Trunk	MAST 1705 29 41 0.13 49 140 189 0.07 5 3x10 B	MAST 1705 29 41 0.13 61 120 181 0.07 5 3x10 B	BED 2 1748 30 28 0.13 54 150 204 0.06 4 3x10 B	BATH 1675 28 24 0.13 42 160 202 0.06 4 3x10 C	BED 3 1907 32 46 0.13 43 150 193 0.07 5	BED 3 1907 32 46 0.13 39 140 179 0.07 5 3x10 C	17 LOFT 3247 55 70 0.13 36 120 156 0.08 6 4x10 C	18 BED 4 1361 23 34 0.13 34 150 184 0.07 4	ENS 2 638 11 11 0.13 24 120 144 0.09 3 3x10	ENS 1777 30 27 0.13 29 140 169 0.08 4 3x10	70 70 0.19	70 70 0.19 4x10	70 70 0.19 4x10 turn Trunk	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19	70 70 0.19	70 70 0.19 4x10	70 70 0.19 4x10	0.13 70 70 0.19 4x10	0.13 70 70 0.19 4x10	70 70 0.19 4x10 Sizing	70 70 0.19 4x10	70 70 0.19	70 70 0.19	70 70 0.19 4x10	70 70 0.19
Room Use Btu/Outlet Heating Airflow Rate CFM Cooling Airflow Rate CFM Duct Design Pressure Actual Duct Length Equivalent Length Total Effective Length Adjusted Pressure Duct Size Round Outlet Size Trunk Return Branch And Grill Sizing	MAST 1705 29 41 0.13 49 140 189 0.07 5 3x10 B	MAST 1705 29 41 0.13 61 120 181 0.07 5 3x10 B	BED 2 1748 30 28 0.13 54 150 204 0.06 4 3x10 B	BATH 1675 28 24 0.13 42 160 202 0.06 4 3x10 C	BED 3 1907 32 46 0.13 43 150 193 0.07 5 3x10 C	BED 3 1907 32 46 0.13 39 140 179 0.07 5 3x10 C	17 LOFT 3247 55 70 0.13 36 120 156 0.08 6 4x10 C	18 BED 4 1361 23 34 0.13 34 150 184 0.07 4 3x10 A	ENS 2 638 11 11 0.13 24 120 144 0.09 3 3x10 A	ENS 1777 30 27 0.13 29 140 169 0.08 4 3x10 A	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10 turn Trunk	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10	0.13 70 70 0.19 4x10 upply Trur	0.13 70 70 0.19 4x10	70 70 0.19 4x10 Sizing	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19
Room Use Btu/Outlet Heating Airflow Rate CFM Cooling Airflow Rate CFM Duct Design Pressure Actual Duct Length Equivalent Length Total Effective Length Adjusted Pressure Duct Size Round Outlet Size Trunk Return Branch And Grill Sizing R/A Inlet No.	MAST 1705 29 41 0.13 49 140 189 0.07 5 3x10 B	MAST 1705 29 41 0.13 61 120 181 0.07 5 3x10 B	BED 2 1748 30 28 0.13 54 150 204 0.06 4 3x10 B	BATH 1675 28 24 0.13 42 160 202 0.06 4 3x10 C	BED 3 1907 32 46 0.13 43 150 193 0.07 5 3x10 C	BED 3 1907 32 46 0.13 39 140 179 0.07 5 3x10 C	17 LOFT 3247 55 70 0.13 36 120 156 0.08 6 4x10 C	18 BED 4 1361 23 34 0.13 34 150 184 0.07 4 3x10 A	ENS 2 638 11 11 0.13 24 120 144 0.09 3 3x10 A	ENS 1777 30 27 0.13 29 140 169 0.08 4 3x10 A	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10 turn Trunk	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10	0.13 70 70 0.19 4x10 upply Trur	0.13 70 70 0.19 4x10	70 70 0.19 4x10 Sizing	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19
Room Use Btu/Outlet Heating Airflow Rate CFM Cooling Airflow Rate CFM Duct Design Pressure Actual Duct Length Equivalent Length Total Effective Length Adjusted Pressure Duct Size Round Outlet Size Trunk Return Branch And Grill Sizing R/A Inlet No. Inlet Air Volume CFM	MAST 1705 29 41 0.13 49 140 189 0.07 5 3x10 B	MAST 1705 29 41 0.13 61 120 181 0.07 5 3x10 B 2R 414 0.12 17	BED 2 1748 30 28 0.13 54 150 204 0.06 4 3x10 B Grill Press 3R 105 0.12	BATH 1675 28 24 0.13 42 160 202 0.06 4 3x10 C sure Loss 4R 105 0.12 41	BED 3 1907 32 46 0.13 43 150 0.07 5 3x10 C	BED 3 1907 32 46 0.13 39 140 179 0.07 5 3x10 C	17 LOFT 3247 55 70 0.13 36 120 156 0.08 6 4x10 C	18 BED 4 1361 23 34 0.13 34 150 184 0.07 4 3x10 A	ENS 2 638 11 11 0.13 24 120 144 0.09 3 3x10 A	ENS 1777 30 27 0.13 29 140 169 0.08 4 3x10 A	70 70 0.19 4x10	70 70 0.19 4x10 Re Tru	70 70 0.19 4x10 turn Trunk	70 70 0.19 4x10	70 70 0.19 4x10 zing FM P	70 70 0.19 4x10 ress. R	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10 <u>Si</u> Ti	0.13 70 70 0.19 4x10 upply Trur	0.13 70 70 0.19 4x10	70 70 0.19 4x10 Sizing CFM P	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19
Room Use Btu/Outlet Heating Airflow Rate CFM Cooling Airflow Rate CFM Duct Design Pressure Actual Duct Length Equivalent Length Total Effective Length Adjusted Pressure Duct Size Round Outlet Size Trunk Return Branch And Grill Sizing R/A Inlet No. Inlet Air Volume CFM Duct Design Pressure	MAST 1705 29 41 0.13 49 140 189 0.07 5 3x10 B	MAST 1705 29 41 0.13 61 120 181 0.07 5 3x10 B 2R 414 0.12	BED 2 1748 30 28 0.13 54 150 204 0.06 4 3x10 B Grill Press 3R 105 0.12	BATH 1675 28 24 0.13 42 160 202 0.06 4 3x10 C sure Loss 4R 105 0.12	BED 3 1907 32 46 0.13 43 150 0.07 5 3x10 C	BED 3 1907 32 46 0.13 39 140 179 0.07 5 3x10 C	17 LOFT 3247 55 70 0.13 36 120 156 0.08 6 4x10 C	18 BED 4 1361 23 34 0.13 34 150 184 0.07 4 3x10 A	ENS 2 638 11 11 0.13 24 120 144 0.09 3 3x10 A	ENS 1777 30 27 0.13 29 140 169 0.08 4 3x10 A	70 70 0.19 4x10	70 70 0.19 4x10 Re Tru	70 70 0.19 4x10 turn Trunk	70 70 0.19 4x10	70 70 0.19 4x10 zing P	70 70 0.19 4x10 ress. R	70 70 0.19 4x10 ound	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10	0.13 70 70 0.19 4x10 upply Trur	0.13 70 70 0.19 4x10	70 70 0.19 4x10 Sizing P	70 70 0.19 4x10 ress. F	70 70 0.19 4x10	70 70 0.19 4x10 Rect. \$	70 70 0.19 4x10	70 70 0.19
Room Use Btu/Outlet Heating Airflow Rate CFM Cooling Airflow Rate CFM Duct Design Pressure Actual Duct Length Equivalent Length Total Effective Length Adjusted Pressure Duct Size Round Outlet Size Trunk Return Branch And Grill Sizing R/A Inlet No. Inlet Air Volume CFM Duct Design Pressure Actual Duct Length	MAST 1705 29 41 0.13 49 140 189 0.07 5 3x10 B 1R 155 0.12	MAST 1705 29 41 0.13 61 120 181 0.07 5 3x10 B 2R 414 0.12 17	BED 2 1748 30 28 0.13 54 150 204 0.06 4 3x10 B Grill Press 3R 105 0.12	BATH 1675 28 24 0.13 42 160 202 0.06 4 3x10 C sure Loss 4R 105 0.12 41	BED 3 1907 32 46 0.13 43 150 0.07 5 3x10 C	BED 3 1907 32 46 0.13 39 140 179 0.07 5 3x10 C	17 LOFT 3247 55 70 0.13 36 120 156 0.08 6 4x10 C	18 BED 4 1361 23 34 0.13 34 150 184 0.07 4 3x10 A	ENS 2 638 11 11 0.13 24 120 144 0.09 3 3x10 A	ENS 1777 30 27 0.13 29 140 169 0.08 4 3x10 A	70 70 0.19 4x10	70 70 0.19 4x10 Re Tru	70 70 0.19 4x10 turn Trunk	70 70 0.19 4x10	70 70 0.19 4x10 zing FM P	70 70 0.19 4x10 ress. R	70 70 0.19 4x10 ound 15.5 15.5	70 70 0.19 4x10 Rect. 24x10 28x8	70 70 0.19 4x10	70 70 0.19 4x10 <u>Si</u> Ti A B C	0.13 70 70 0.19 4x10 upply Trur	0.13 70 70 0.19 4x10	70 70 0.19 4x10 Sizing CFM P	70 70 0.19 4x10 ress. F	70 70 0.19 4x10 Round	70 70 0.19 4x10 Rect. \$	70 70 0.19 4x10 Size 14x10 127	70 70 0.19
Room Use Btu/Outlet Heating Airflow Rate CFM Cooling Airflow Rate CFM Duct Design Pressure Actual Duct Length Equivalent Length Total Effective Length Adjusted Pressure Duct Size Round Outlet Size Trunk Return Branch And Grill Sizing R/A Inlet No. Inlet Air Volume CFM Duct Design Pressure Actual Duct Length Equivalent Length	MAST 1705 29 41 0.13 49 140 189 0.07 5 3x10 B 1R 155 0.12 9 110	MAST 1705 29 41 0.13 61 120 181 0.07 5 3x10 B 2R 414 0.12 17 125	BED 2 1748 30 28 0.13 54 150 204 0.06 4 3x10 B Grill Press 3R 105 0.12 36 180	BATH 1675 28 24 0.13 42 160 202 0.06 4 3x10 C sure Loss 4R 105 0.12 41 195	BED 3 1907 32 46 0.13 43 150 0.07 5 3x10 C	BED 3 1907 32 46 0.13 39 140 179 0.07 5 3x10 C 0.02 6R 0.12	17 LOFT 3247 55 70 0.13 36 120 156 0.08 6 4x10 C 7R 0.12	18 BED 4 1361 23 34 0.13 34 1500 184 0.07 4 3x10 A	ENS 2 638 11 11 0.13 24 120 144 0.09 3 3x10 A	ENS 1777 30 27 0.13 29 140 169 0.08 4 3x10 A	70 70 0.19 4x10 11R 0.12	70 70 0.19 4x10 Ree Tru Dru Z	70 70 0.19 4x10 turn Trunk	70 70 0.19 4x10	70 70 0.19 4x10 zing FM P	70 70 0.19 4x10 ress. R	70 70 0.19 4x10 ound 15.5 15.5	70 70 0.19 4x10 Rect. 24x10 28x8	70 70 0.19 4x10	70 70 0.19 4x10 <u>Si</u> Ti A B	0.13 70 70 0.19 4x10 upply Trur	0.13 70 70 0.19 4x10	70 70 0.19 4x10 Sizing CFM P	70 70 0.19 4x10 ress. F	70 70 0.19 4x10 Round	70 70 0.19 4x10 Rect. \$	70 70 0.19 4x10 Size 14x10 127	70 70 0.19
Room Use Btu/Outlet Heating Airflow Rate CFM Cooling Airflow Rate CFM Duct Design Pressure Actual Duct Length Equivalent Length Total Effective Length Adjusted Pressure Duct Size Round Outlet Size Trunk Return Branch And Grill Sizing R/A Inlet No. Inlet Air Volume CFM Duct Design Pressure Actual Duct Length Equivalent Length Equivalent Length Total Effective Length	MAST 1705 29 41 0.13 49 140 189 0.07 5 3x10 B 1R 155 0.12 9 110 119 0.10 7.0	MAST 1705 29 41 0.13 61 120 181 0.07 5 3x10 B 2R 414 0.12 17 125 142	BED 2 1748 30 28 0.13 54 150 204 0.06 4 3x10 B Grill Press 3R 105 0.12 36 180 216	BATH 1675 28 24 0.13 42 160 202 0.06 4 3x10 C c sure Loss 4R 105 0.12 41 195 236	BED 3 1907 32 46 0.13 150 193 0.07 5 3x10 C	BED 3 1907 32 46 0.13 39 140 179 0.07 5 3x10 C 0.02 6R 0.12 50 50	17 LOFT 3247 55 70 0.13 36 120 156 0.08 6 4x10 C 7R 0.12 50 50	18 BED 4 1361 23 34 0.13 34 150 184 0.07 4 3x10 A 8R 0.12 50 50	ENS 2 638 11 11 0.13 24 120 144 0.09 3 3x10 A	ENS 1777 30 27 0.13 29 140 169 0.08 4 3×10 A	70 70 0.19 4x10 11R 0.12 50	70 70 0.19 4x10 Ree Tru Dru Z Y X W V	70 70 0.19 4x10 turn Trunk	70 70 0.19 4x10	70 70 0.19 4x10 zing FM P	70 70 0.19 4x10 ress. R	70 70 0.19 4x10 ound 15.5 15.5	70 70 0.19 4x10 Rect. 24x10 28x8	70 70 0.19 4x10	70 70 0.19 4x10 <u>Si</u> Ti A B C	0.13 70 70 0.19 4x10 upply Trur	0.13 70 70 0.19 4x10	70 70 0.19 4x10 Sizing CFM P	70 70 0.19 4x10 ress. F	70 70 0.19 4x10 Round	70 70 0.19 4x10 Rect. \$	70 70 0.19 4x10 Size 14x10 127	70 70 0.19
Room Use Btu/Outlet Heating Airflow Rate CFM Cooling Airflow Rate CFM Duct Design Pressure Actual Duct Length Equivalent Length Total Effective Length Adjusted Pressure Duct Size Round Outlet Size Trunk Return Branch And Grill Sizing R/A Inlet No. Inlet Air Volume CFM Duct Design Pressure Actual Duct Length Equivalent Length Total Effective Length Adjusted Pressure Duct Size Round Inlet Size Round Inlet Size	MAST 1705 29 41 0.13 49 140 189 0.07 5 3x10 B 1R 155 0.12 9 110 119 0.10	MAST 1705 29 41 0.13 61 120 181 0.07 5 3x10 B 2R 414 0.12 17 125 142 0.08	BED 2 1748 30 28 0.13 54 150 204 0.06 4 3x10 B Grill Press 3R 105 0.12 36 180 216	BATH 1675 28 24 0.13 42 160 202 0.06 4 3x10 C sure Loss 4R 105 0.12 41 195 236 0.05	BED 3 1907 32 46 0.13 43 150 193 0.07 5 3x10 C	BED 3 1907 32 46 0.13 39 140 179 0.07 5 3x10 C 0.02 6R 0.12 50 50	17 LOFT 3247 55 70 0.13 36 120 156 0.08 6 4x10 C 7R 0.12 50 50	18 BED 4 1361 23 34 0.13 34 150 184 0.07 4 3x10 A 8R 0.12 50 50	ENS 2 638 11 11 0.13 24 120 144 0.09 3 3x10 A	ENS 1777 30 27 0.13 29 140 169 0.08 4 3×10 A	70 70 0.19 4x10 11R 0.12 50	70 70 0.19 4x10 Ree Tru Dru Z Y X W V U	70 70 0.19 4x10 turn Trunk	70 70 0.19 4x10	70 70 0.19 4x10 zing FM P	70 70 0.19 4x10 ress. R	70 70 0.19 4x10 ound 15.5 15.5	70 70 0.19 4x10 Rect. 24x10 28x8	70 70 0.19 4x10	70 70 0.19 4x10 Si Ti A B C C D E F G	0.13 70 70 0.19 4x10 upply Trur	0.13 70 70 0.19 4x10	70 70 0.19 4x10 Sizing CFM P	70 70 0.19 4x10 ress. F	70 70 0.19 4x10 Round	70 70 0.19 4x10 Rect. \$	70 70 0.19 4x10 Size 14x10 127	70 70 0.19
Room Use Btu/Outlet Heating Airflow Rate CFM Cooling Airflow Rate CFM Duct Design Pressure Actual Duct Length Equivalent Length Total Effective Length Adjusted Pressure Duct Size Round Outlet Size Trunk Return Branch And Grill Sizing R/A Inlet No. Inlet Air Volume CFM Duct Design Pressure Actual Duct Length Equivalent Length Total Effective Length Adjusted Pressure	MAST 1705 29 41 0.13 49 140 189 0.07 5 3x10 B 1R 155 0.12 9 110 119 0.10 7.0	MAST 1705 29 41 0.13 61 120 181 0.07 5 3x10 B 2R 414 0.12 17 125 142 0.08 10.5	BED 2 1748 30 28 0.13 54 150 204 0.06 4 3x10 B Grill Press 3R 105 0.12 36 180 216 0.05 6.0	BATH 1675 28 24 0.13 42 160 202 0.06 4 3x10 C cure Loss 4R 105 0.12 41 195 236 0.05 6.0	BED 3 1907 32 46 0.13 43 150 193 0.07 5 3x10 C	BED 3 1907 32 46 0.13 39 140 179 0.07 5 3x10 C 0.02 6R 0.12 50 50	17 LOFT 3247 55 70 0.13 36 120 156 0.08 6 4x10 C 7R 0.12 50 50	18 BED 4 1361 23 34 0.13 34 150 184 0.07 4 3x10 A 8R 0.12 50 50	ENS 2 638 11 11 0.13 24 120 144 0.09 3 3x10 A	ENS 1777 30 27 0.13 29 140 169 0.08 4 3×10 A	70 70 0.19 4x10 11R 0.12 50	70 70 0.19 4x10 Ree Tru Dru Z Y X W V U T	70 70 0.19 4x10 turn Trunk	70 70 0.19 4x10	70 70 0.19 4x10 zing FM P	70 70 0.19 4x10 ress. R	70 70 0.19 4x10 ound 15.5 15.5	70 70 0.19 4x10 Rect. 24x10 28x8	70 70 0.19 4x10	70 70 0.19 4x10 Si Ti A B C C D E F	0.13 70 70 0.19 4x10 upply Trur	0.13 70 70 0.19 4x10	70 70 0.19 4x10 Sizing CFM P	70 70 0.19 4x10 ress. F	70 70 0.19 4x10 Round	70 70 0.19 4x10 Rect. \$	70 70 0.19 4x10 Size 14x10 127	70 70 0.19
Room Use Btu/Outlet Heating Airflow Rate CFM Cooling Airflow Rate CFM Duct Design Pressure Actual Duct Length Equivalent Length Total Effective Length Adjusted Pressure Duct Size Round Outlet Size Trunk Return Branch And Grill Sizing R/A Inlet No. Inlet Air Volume CFM Duct Design Pressure Actual Duct Length Equivalent Length Total Effective Length Adjusted Pressure Duct Size Round Inlet Size Round Inlet Size	MAST 1705 29 41 0.13 49 140 189 0.07 5 3x10 B 1R 155 0.12 9 110 119 0.10 7.0	MAST 1705 29 41 0.13 61 120 181 0.07 5 3x10 B 2R 414 0.12 17 125 142 0.08 10.5 8	BED 2 1748 30 28 0.13 54 150 204 0.06 4 3x10 B Grill Press 3R 105 0.12 36 180 216 0.05 6.0	BATH 1675 28 24 0.13 42 160 202 0.06 4 3x10 C sure Loss 4R 105 0.12 41 195 236 0.05 6.0 8	BED 3 1907 32 46 0.13 43 150 193 0.07 5 3x10 C 5R 150 0.12 40 155 195 0.06 8.0 8	BED 3 1907 32 46 0.13 39 140 179 0.07 5 3x10 C 0.02 6R 0.12 50 50	17 LOFT 3247 55 70 0.13 36 120 156 0.08 6 4x10 C 7R 0.12 50 50	18 BED 4 1361 23 34 0.13 34 150 184 0.07 4 3x10 A 8R 0.12 50 50	ENS 2 638 11 11 0.13 24 120 144 0.09 3 3x10 A	ENS 1777 30 27 0.13 29 140 169 0.08 4 3×10 A	70 70 0.19 4x10 11R 0.12 50	70 70 0.19 4x10 Ree Tru Dru Z Y X W V U T S	70 70 0.19 4x10 turn Trunk	70 70 0.19 4x10	70 70 0.19 4x10 zing FM P	70 70 0.19 4x10 ress. R	70 70 0.19 4x10 ound 15.5 15.5	70 70 0.19 4x10 Rect. 24x10 28x8	70 70 0.19 4x10	70 70 0.19 4x10 Si Ti A B C C D E F G	0.13 70 70 0.19 4x10 upply Trur	0.13 70 70 0.19 4x10	70 70 0.19 4x10 Sizing CFM P	70 70 0.19 4x10 ress. F	70 70 0.19 4x10 Round	70 70 0.19 4x10 Rect. \$	70 70 0.19 4x10 Size 14x10 127	70 70 0.19
Room Use Btu/Outlet Heating Airflow Rate CFM Cooling Airflow Rate CFM Duct Design Pressure Actual Duct Length Equivalent Length Total Effective Length Adjusted Pressure Duct Size Round Outlet Size Trunk Return Branch And Grill Sizing R/A Inlet No. Inlet Air Volume CFM Duct Design Pressure Actual Duct Length Equivalent Length Total Effective Length Adjusted Pressure Duct Size Round Inlet Size " "	MAST 1705 29 41 0.13 49 140 189 0.07 5 3x10 B 1R 155 0.12 9 110 119 0.10 7.0	MAST 1705 29 41 0.13 61 120 181 0.07 5 3x10 B 2R 414 0.12 17 125 142 0.08 10.5 8 x	BED 2 1748 30 28 0.13 54 150 204 0.06 4 3x10 B Grill Press 3R 105 0.12 36 180 216 0.05 6.0 8 x	BATH 1675 28 24 0.13 42 160 202 0.06 4 3x10 C sure Loss 4R 105 0.12 41 195 236 0.05 6.0 8 x	BED 3 1907 32 46 0.13 43 150 193 0.07 5 3x10 C	BED 3 1907 32 46 0.13 39 140 179 0.07 5 3x10 C 0.02 6R 0.12 50 50	17 LOFT 3247 55 70 0.13 36 120 156 0.08 6 4x10 C 7R 0.12 50 50	18 BED 4 1361 23 34 0.13 34 150 184 0.07 4 3x10 A 8R 0.12 50 50	ENS 2 638 11 11 0.13 24 120 144 0.09 3 3x10 A	ENS 1777 30 27 0.13 29 140 169 0.08 4 3×10 A	70 70 0.19 4x10 11R 0.12 50	70 70 0.19 4x10 Ree Tru Dru Z Y X W V U T	70 70 0.19 4x10 turn Trunk	70 70 0.19 4x10	70 70 0.19 4x10 zing FM P	70 70 0.19 4x10 ress. R	70 70 0.19 4x10 ound 15.5 15.5	70 70 0.19 4x10 Rect. 24x10 28x8	70 70 0.19 4x10	70 70 0.19 4x10 Si Ti A B C C D E F G	0.13 70 70 0.19 4x10 upply Trur	0.13 70 70 0.19 4x10	70 70 0.19 4x10 Sizing CFM P	70 70 0.19 4x10 ress. F	70 70 0.19 4x10 Round	70 70 0.19 4x10 Rect. \$	70 70 0.19 4x10 Size 14x10 127	70 70 0.19



Total Heat Loss

Total Heat Gain

55,002 btu/h

28,387 btu/h

Heatloss/Gain Calculations CSA-F280-12

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

e-mail hvac@gtadesigns.ca

		Builder:	Bayv	iew Welli	lington			Date:		Jı	uly 21, 202	:1		_			Weath	er Data	Bradford	44	-9.4	86 22	48.2				Pa	age 4
2012 OBC		Project:	Gre	en Valley	, Fast			Model:			Barossa 3 S38-3				System	1	Heat	Loss ^T 8	14 dea F	Ht gain ^T	11	deg. F	GTA:	2544		Project :	# PJ-0	00041 07351
2012 050		rioject.	GIE	en vaney	Last		. "	ilouei.			000-0				•		ricat	L033 1 0	1.4 ucg. 1	rit gain i		ucy. i	OIA.	2044		Layout	7 05-0	
	Level 1					BASE																						
	nft. exposed wall A				153 A			Α			Α		Α		Α		Α		Α	Α		Α			A		Α	
Run	ft. exposed wall B					В		В			В		В		В		В		В	В		В			В		В	
	Ceiling height				6.0 A			6.0 A		6.0	AG		6.0 AG		6.0 AG	•	6.0 AG		6.0 AG	6.0 AG		6.0 AG		6.0		6.0	0 AG	
	Floor area				1027 A				rea		Area		Area		Area		Area		Area	Area		Area	a		Area		Area	
	Exposed Ceilings A					Α		А			Α		Α		Α		Α		Α	Α		Α			A		Α	
E	Exposed Ceilings B					В		В			В		В		В		В		В	В		В			В		В	
	Exposed Floors					Fir		F	Ir		Fir		Flr		Flr		Flr		Flr	Flr		Flr			Flr		Fir	
	Gross Exp Wall A				918																							
	Gross Exp Wall B					_																						
	Components			ain		Loss	Gain	, <u>L</u>	oss Gai	n	Loss (Gain	Loss	Gain	Loss G	ain	Loss	Gain	Loss Gain	Loss	Gain	Los	s Gain	_	Loss Ga	iin	Loss Ga	ain
	North Shaded	3.55	22.93	11.62																								
	East/West	3.55	22.93	29.56	23	527 138	680 135																					
	South	3.55	22.93	22.50	6	138	135																					
	WOB Windows	3.55	22.93	27.86																								
	Skylight	2.03	40.10	88.23	04	407																						
	Doors	4.00	20.35	2.75		427																						
	et exposed walls A	21.12	3.85	0.52	868		452																					
	et exposed walls B	17.03	4.78	0.65																								
	Exposed Ceilings A	59.22	1.37	0.64 1.37																								
E	Exposed Ceilings B Exposed Floors	27.65 29.80	2.94	0.17																								
Foundation Cond		29.80	2.13	0.17		7515																						
						8607																						
Total Conductive	Heat Loss Heat Gain					0007	1325																					
Air Leakage	Heat Loss/Gain		1.1036	0.0432		9499	57																					
All Leakage	Case 1		0.07	0.0432		9499	3/																					
Ventilation	Case 2		14.95	11.88																								
T Gridianion	Case 3	x	0.03	0.06		298	86																					
	Heat Gain People	^	0.00	239		230	- 00																					
	Appliances Loads	1 =.25 pe	rcent	4229																								
	Duct and Pipe loss	120 pc	JOGIN	10%																								
Level HL Total	18,405	Tot	tal HL for po			18405																						
Level HG Total	1,908		HG per roo			.0.00	1908																					
LCVCI IIO IOtal																												
Level 110 Total	*			!	_																							
LEVEL 110 Total				-						<u>,</u>																		
Level Ho Total																												
	Level 2					КІТ			GRT		LAUND		FOY		DIN													
Run	Level 2				31 /	Α		32 A		18	Α		26 A		45 A		A		A	A		A			A		A	
Run	Level 2 of t. exposed wall A of t. exposed wall B				31 A	Α		В			В		26 A B		45 A B		В		В	В		В			A B		В	
Run	Level 2 of t. exposed wall A of t. exposed wall B Ceiling height				31 A E 11.0	A B		11.0		13.0	A B	1	26 A B 12.0		45 A B 1.0	11	B 1.0	1	В 1.0	B 11.0		B 11.0		11.0	В	11.0	В 0	
Run Run	Level 2 oft. exposed wall A oft. exposed wall B Ceiling height Floor area				31 A E 11.0 233 A	A B Area		11.0 216 A	rea	13.0	A B Area	1	26 A B 12.0 76 Area		45 A B 1.0 121 Area	11	B 1.0 Area	1	B 1.0 Area	B 11.0 Area		11.0 Area	a	11.0	B Area	11.0	B D Area	
Run Run	Level 2 Ift. exposed wall A Ift. exposed wall B Ceiling height Floor area Exposed Ceilings A				31 A E 11.0 233 A	A B Area A		11.0 216 A	rea	13.0 68	A B Area A	1	26 A B 12.0 76 Area A		45 A B 1.0 121 Area A	11	B 1.0 Area A	1	B 1.0 Area A	B 11.0 Area A		B 11.0 Area A	a	11.0	B Area A	11.	B D Area A	
Run Run	Level 2 If t. exposed wall A If t. exposed wall B Ceiling height Floor area Exposed Ceilings A Exposed Ceilings B				31 A E 11.0 233 A	A B Area A B		11.0 216 A A B	rea	13.0 68	A B Area A B	1	26 A B 12.0 76 Area A B		45 A B 1.0 421 Area A B	11	B 1.0 Area A B	1	B 1.0 Area A B	B 11.0 Area A B		B 11.0 Area A B	a	11.0 11.0	B Area A B	11.0	B O Area A B	
Run Run E E	Level 2 Ift. exposed wall A Celling height Floor area Exposed Ceilings A Exposed Floors				31 / E 11.0 233 / E	A B Area A		11.0 216 A B F	rea	13.0 68	A B Area A B		26 A B 12.0 76 Area A B FIr	4	45 A B 1.0 421 Area A B FIr	11	B 1.0 Area A	1	B 1.0 Area A	B 11.0 Area A		B 11.0 Area A	a	11.0 11.0	B Area A	11.0	B D Area A	
Run Run E E	Level 2 Ift. exposed wall A Ift. exposed wall B Ceiling height Floor area Exposed Ceilings A Exposed Ceilings B Exposed Floors Gross Exp Wall A				31 A E 11.0 233 A	A B Area A B		11.0 216 A A B	rea	13.0 68	A B Area A B		26 A B 12.0 76 Area A B	4	45 A B 1.0 421 Area A B	11	B 1.0 Area A B	1	B 1.0 Area A B	B 11.0 Area A B		B 11.0 Area A B	a	11.0 11.0	B Area A B	11.	B O Area A B	
Run Run E E	Level 2 1ft. exposed wall A Ceiling height Floor area Exposed Ceilings A Exposed Floors Gross Exp Wall A Gross Exp Wall B				31 / E 11.0 233 / E F	A B Area A B Fir	Ocio	11.0 216 A A B F 352	rea Ir	13.0 68 234	A B Area A B Fir	:	26 A B 12.0 76 Area A B Fir	4	45 A B 1.0 421 Area A B FIr		B 1.0 Area A B Fir		B 1.0 Area A B Fir	B 11.0 Area A B Fir	Colo	B 11.0 Area A B Fir		11.0 11.0	B Area A B Fir		B O Area A B Fir	
Run Run E E	Level 2 Ift. exposed wall A Ift. exposed wall B Ceiling height Floor area Exposed Ceilings A Exposed Ceilings B Exposed Floors Gross Exp Wall A Gross Exp Wall B Components	R-Values L	oss G	ain	31 / E 11.0 233 / E F	A B Area A B Fir	Gain	11.0 216 A A B F 352	rea	13.0 68 234 n	A B Area A B Fir	; Gain	26 A B 12.0 76 Area A B Fir	4	45 A B 1.0 421 Area A B FIr	11	B 1.0 Area A B Fir	1 Gain	B 1.0 Area A B	B 11.0 Area A B	Gain	B 11.0 Area A B		11.0 11.0	B Area A B		B O Area A B Fir	ain
Run Run E E	Level 2 Ift. exposed wall A Ift. exposed wall B Ceiling height Floor area Exposed Ceilings A Exposed Floors Gross Exp Wall B Components North Shaded	R-Values L 3.55	oss G 22.93	ain 11.62	31 /4 E 11.0 233 /4 E F 341	A B Area A B Fir		11.0 216 A A B F 352	rea Ir oss Gai	13.0 68 234 n 11	A B Area A B Fir	:	26 A B 12.0 76 Area A B Fir 312	Gain	45 A B 1.0 421 Area A B FIr		B 1.0 Area A B Fir		B 1.0 Area A B Fir	B 11.0 Area A B Fir	Gain	B 11.0 Area A B Fir		11.0 11.0	B Area A B Fir		B O Area A B Fir	ain
Run Run E E	Level 2 Ift. exposed wall A Ift. exposed wall B Ceiling height Floor area Exposed Ceilings A Exposed Floors Gross Exp Wall A Gross Exp Wall B Components North Shaded East/West	R-Values L 3.55 3.55	.0ss G 22.93 22.93	ain 11.62 29.56	31 / E 11.0 233 / E F	A B Area A B Fir		11.0 216 A A B F 352	rea Ir oss Gai	13.0 68 234 n	A B Area A B Fir	; Gain	26 A B 12.0 76 Area A B Fir	Gain 1389	45 A B 1.0 121 Area A B Fir 195	ain	B 1.0 Area A B Fir		B 1.0 Area A B Fir	B 11.0 Area A B Fir	Gain	B 11.0 Area A B Fir		11.0 11.0	B Area A B Fir		B O Area A B Fir	ain
Run E E	Level 2 Ift. exposed wall A Ift. exposed wall B Ceiling height Floor area Exposed Ceilings A Exposed Ceilings B Exposed Floors Gross Exp Wall A Gross Exp Wall B Components North Shaded East/West South	R-Values L 3.55 3.55 3.55	.oss G 22.93 22.93 22.93	ain 11.62 29.56 22.50	31 /4 E 11.0 233 /4 E F 341	A B Area A B Fir		11.0 216 A A B F 352	rea Ir oss Gai	13.0 68 234 n 11	A B Area A B Fir	; Gain	26 A B 12.0 76 Area A B Fir 312	Gain 1389	45 A B 1.0 421 Area A B FIr		B 1.0 Area A B Fir		B 1.0 Area A B Fir	B 11.0 Area A B Fir	Gain	B 11.0 Area A B Fir		11.0 11.0	B Area A B Fir		B O Area A B Fir	ain
Run E E	Level 2 Ift. exposed wall A Ift. exposed wall B Ceiling height Floor area Exposed Ceilings A Exposed Floors Gross Exp Wall B Components North Shaded East/West South Existing Windows	R-Values L 3.55 3.55 3.55 1.99	.oss G 22.93 22.93 22.93 40.90	ain 11.62 29.56 22.50 23.66	31 /4 E 11.0 233 /4 E F 341	A B Area A B Fir		11.0 216 A A B F 352	rea Ir oss Gai	13.0 68 234 n 11	A B Area A B Fir	; Gain	26 A B 12.0 76 Area A B Fir 312	Gain 1389	45 A B 1.0 121 Area A B Fir 195	ain	B 1.0 Area A B Fir		B 1.0 Area A B Fir	B 11.0 Area A B Fir	Gain	B 11.0 Area A B Fir		11.0 11.0	B Area A B Fir		B O Area A B Fir	ain
Run E E	Level 2 Ift. exposed wall A Ift. exposed wall B Ceiling height Floor area Exposed Ceilings B Exposed Floors Gross Exp Wall B Components North Shaded East/West South Existing Windows Skylight	R-Values L 3.55 3.55 3.55 3.55 1.99 2.03	.05S G 22.93 22.93 22.93 40.90 40.10	ain 11.62 29.56 22.56 23.66 88.23	31 /4 E 11.0 233 /4 E F 341	A B Area A B Fir		11.0 216 A A B F 352	rea Ir oss Gai	13.0 68 234 n 11	A B Area A B Fir C 252	Sain 128	26 A B 12.0 76 Area A B Fir 312 Loss	Gain 1389	45 A B 1.0 121 Area A B Fir 195	ain	B 1.0 Area A B Fir		B 1.0 Area A B Fir	B 11.0 Area A B Fir	Gain	B 11.0 Area A B Fir		11.0 11.0	B Area A B Fir		B O Area A B Fir	ain
Run E E	Level 2 Ift. exposed wall A Ift. exposed wall B Ceiling height Floor area Exposed Ceilings B Exposed Floors Gross Exp Wall A Gross Exp Wall B Components North Shaded East/West South Existing Windows Skylight Doors	R-Values L 3.55 3.55 3.55 1.99 2.33 4.00	22.93 22.93 22.93 40.90 40.10 20.35	ain 11.62 29.56 22.50 23.66 88.23 2.75	31 / E 11.0 233 / E F 341	A B Area A B B Fir Loss	2099	11.0 216 A B F 352 L	oss Gai	13.0 68 234 n 11 360	A B Area A B Fir Loss (252 427	Sain 128	26 A B 12.0 76 Area A B Fir 312 Loss 47 1078	Gain 1389	45 A B 1.0 1.1 1.21 Area A B Fir 1.95 Loss G	675	B 1.0 Area A B Fir		B 1.0 Area A B Fir	B 11.0 Area A B Fir	Gain	B 11.0 Area A B Fir		11.0 11.0	B Area A B Fir		B O Area A B Fir	ain
Run Run	Level 2 Ift. exposed wall A Ift. exposed wall B Ceiling height Floor area Exposed Ceilings A Exposed Floors Gross Exp Wall B Components North Shaded East/West South Existing Windows Skylight Doors et exposed walls A	R-Values L 3.55 3.55 3.55 1.99 2.03 4.703	22.93 22.93 22.93 40.90 40.10 20.35 4.78	ain 11.62 29.56 22.50 23.66 88.23 2.75 0.65	31 / E 11.0 233 / E F 341	A B Area A B Fir		11.0 216 A B F 352 L	oss Gai	13.0 68 234 n 11	A B Area A B Fir Loss (252 427	Sain 128	26 A B 12.0 76 Area A B Fir 312 Loss	Gain 1389	45 A B 1.0 121 Area A B Fir 195	ain	B 1.0 Area A B Fir		B 1.0 Area A B Fir	B 11.0 Area A B Fir	Gain	B 11.0 Area A B Fir		11.0 11.0	B Area A B Fir		B O Area A B Fir	ain
Run Run	Level 2 Ift. exposed wall A Ift. exposed wall B Ceiling height Floor area Exposed Ceilings B Exposed Floors Gross Exp Wall A Gross Exp Wall B Components North Shaded East/West South Existing Windows Skylight Doors et exposed walls A et exposed walls B	R-Values L 3.55 3.55 3.55 3.55 1.99 2.03 4.00 17.03 8.50	.0ss G 22.93 22.93 22.93 40.90 40.10 20.35 4.78 9.58	ain 11.62 29.56 22.50 23.66 88.23 2.75 0.65 1.29	31 / E 11.0 233 / E F 341	A B Area A B B Fir Loss	2099	11.0 216 A B F 352 L	oss Gai	13.0 68 234 n 11 360	A B Area A B Fir Loss (252 427	Sain 128	26 A B 12.0 76 Area A B Fir 312 Loss 47 1078	Gain 1389	45 A B 1.0 1.1 1.21 Area A B Fir 1.95 Loss G	675	B 1.0 Area A B Fir		B 1.0 Area A B Fir	B 11.0 Area A B Fir	Gain	B 11.0 Area A B Fir		11.0 11.0	B Area A B Fir		B O Area A B Fir	ain
Run Run E E	Level 2 Ift. exposed wall A Ift. exposed wall B Ceiling height Floor area Exposed Ceilings A Exposed Floors Gross Exp Wall B Components North Shaded East/West South Existing Windows Skylight Doors et exposed walls A et exposed walls A et exposed walls A	R-Values L 3.55 3.55 3.55 1.99 2.03 4.703	.0SS G 22.93 22.93 22.93 40.90 40.10 20.35 4.78 9.58 1.37	ain 11.62 29.56 22.50 23.66 88.23 2.75 0.65 1.29	31 / E 11.0 233 / E F 341	A B Area A B B Fir Loss	2099	11.0 216 A B F 352 L	oss Gai	13.0 68 234 n 11 360	A B Area A B Fir Loss (252 427	Sain 128	26 A B 12.0 76 Area A B Fir 312 Loss 47 1078	Gain 1389	45 A B 1.0 1.1 1.21 Area A B Fir 1.95 Loss G	675	B 1.0 Area A B Fir		B 1.0 Area A B Fir	B 11.0 Area A B Fir	Gain	B 11.0 Area A B Fir		11.0 11.0	B Area A B Fir		B O Area A B Fir	ain
Run Run E E	Level 2 Ift. exposed wall A Ift. exposed wall B Ceiling height Floor area Exposed Ceilings B Exposed Floors Gross Exp Wall B Components North Shaded East/West South Existing Windows Skylight Doors et exposed walls A et exposed walls A et exposed Ceilings B	R-Values L 3.55 3.55 3.55 3.55 1.99 2.03 4.00 17.03 8.50 59.22 27.65	22.93 22.93 22.93 22.93 40.90 40.10 20.35 4.78 9.58 1.37	ain 11.62 29.56 22.50 23.66 88.23 2.75 0.65 1.29 0.64	31 / E 11.0 233 / E F 341	A B Area A B B Fir Loss	2099	11.0 216 A B F 352 L	oss Gai	13.0 68 234 n 11 360	A B Area A B Fir Loss (252 427	Sain 128	26 A B 12.0 76 Area A B Fir 312 Loss 47 1078	Gain 1389	45 A B 1.0 1.1 1.21 Area A B Fir 1.95 Loss G	675	B 1.0 Area A B Fir		B 1.0 Area A B Fir	B 11.0 Area A B Fir	Gain	B 11.0 Area A B Fir		11.0 11.0	B Area A B Fir		B O Area A B Fir	ain
Run Run	Level 2 Ift. exposed wall A Ift. exposed wall B Ceiling height Floor area Exposed Ceilings A Exposed Floors Gross Exp Wall A Gross Exp Wall B Components North Shaded East/West South Existing Windows Skylight Doors et exposed walls A et exposed walls A Exposed Ceilings A Exposed Ceilings B Exposed Floors	R-Values L 3.55 3.55 3.55 1.99 2.03 4.00 17.03 8.50 59.22	.0SS G 22.93 22.93 22.93 40.90 40.10 20.35 4.78 9.58 1.37	ain 11.62 29.56 22.50 23.66 88.23 2.75 0.64 1.29 0.64 1.37	31 / E 11.0 233 / E F 341	A B Area A B B Fir Loss	2099	11.0 216 A B F 352 L	oss Gai	13.0 68 234 n 11 360	A B Area A B Fir Loss (252 427	Sain 128	26 A B 12.0 76 Area A B Fir 312 Loss 47 1078	Gain 1389	45 A B 1.0 1.1 1.21 Area A B Fir 1.95 Loss G	675	B 1.0 Area A B Fir		B 1.0 Area A B Fir	B 11.0 Area A B Fir	Gain	B 11.0 Area A B Fir		11.0 11.0	B Area A B Fir		B O Area A B Fir	ain
Run Run E E E Foundation Cond	Level 2 Ift. exposed wall A Ift. exposed wall B Ceiling height Floor area Exposed Ceilings A Exposed Ceilings B Exposed Floors Gross Exp Wall B Components North Shaded East/West South Existing Windows Skylight Exposed Ceilings A et exposed walls A Exposed Ceilings A Exposed Ceilings A Exposed Ceilings A Exposed Ceilings A Exposed Floors Level Corrections Level Correctio	R-Values L 3.55 3.55 3.55 3.55 1.99 2.03 4.00 17.03 8.50 59.22 27.65	22.93 22.93 22.93 22.93 40.90 40.10 20.35 4.78 9.58 1.37	ain 11.62 29.56 22.50 23.66 88.23 2.75 0.65 1.29 0.64	31 / E 11.0 233 / E F 341	A B Area A B B Fir Loss 1628	2099	11.0 216 A B F 352 L	oss Gai	13.0 68 234 n 11 360	A B Area A B Fir Loss (252 427 966	Sain 128	26 A B B 12.0 76 Area A B Fir 312 Loss 47 1078 29 590 236 1128	Gain 1389	45 A B 1.0 121 Area A B Fir 195 Loss C 30 688	675	B 1.0 Area A B Fir		B 1.0 Area A B Fir	B 11.0 Area A B Fir	Gain	B 11.0 Area A B Fir		11.0 11.0	B Area A B Fir		B O Area A B Fir	ain
Run Run E E	Level 2 Ift. exposed wall A Ift. exposed wall B Ceiling height Floor area Exposed Ceilings A Exposed Floors Gross Exp Wall A Gross Exp Wall B Components North Shaded East/West South Existing Windows Skylight Doors et exposed walls A et exposed walls A Exposed Ceilings A Exposed Ceilings B Exposed Floors	R-Values L 3.55 3.55 3.55 3.55 1.99 2.03 4.00 17.03 8.50 59.22 27.65	22.93 22.93 22.93 22.93 40.90 40.10 20.35 4.78 9.58 1.37	ain 11.62 29.56 22.50 23.66 88.23 2.75 0.64 1.29 0.64 1.37	31 / E 11.0 233 / E F 341	A B Area A B B Fir Loss	2099	11.0 216 A B F 352 L	rea	13.0 68 234 11 360 11 21 198 202	A B Area A B Fir Loss (252 427	58 130	26 A B 12.0 76 Area A B Fir 312 Loss 47 1078	Gain 1389	45 A B 1.0 1.1 1.21 Area A B Fir 1.95 Loss G	675	B 1.0 Area A B Fir		B 1.0 Area A B Fir	B 11.0 Area A B Fir	Gain	B 11.0 Area A B Fir		11.0 11.0	B Area A B Fir		B O Area A B Fir	ain
Run Run E E E Foundation Cond	Level 2 Ift. exposed wall A Ift. exposed wall B Ceiling height Floor area Exposed Ceilings A Exposed Floors Gross Exp Wall A Gross Exp Wall B Components North Shaded East/West South Existing Windows Skylight Doors et exposed walls A et exposed walls A et exposed walls A Exposed Ceilings B Exposed Floors functive Heatloss Heat Loss Heat Gain	R-Values L 3.55 3.55 3.55 3.55 1.99 2.03 4.00 17.03 8.50 59.22 27.65	22.93 22.93 22.93 22.93 40.90 40.10 20.35 4.78 9.58 1.37	ain 11.62 29.56 22.50 23.66 88.23 2.75 0.65 1.29 0.64 1.37 0.17	31 / E 11.0 233 / E F 341	A B B Area A B B Fir Loss 1628	2099	11.0 216 A B F 352 L	oss Gai	13.0 68 234 n 11 360 21 198 202	A B Area A B Fir Loss (252	Sain 128	26 A B B 12.0 76 Area A B Fir 312 Loss 47 1078 29 590 1128 2796	Gain 1389 80 152	45 A B B 1.1.0 121 Area A B Fir 1995 Loss G 688 165 2223	675 300	B 1.0 Area A B Fir		B 1.0 Area A B Fir	B 11.0 Area A B Fir	Gain	B 11.0 Area A B Fir		11.0 11.0	B Area A B Fir		B O Area A B Fir	ain
Run Run E E Ni Ne E E Foundation Cond Total Conductive	Level 2 Ift. exposed wall A Ift. exposed wall B Ceiling height Floor area Exposed Ceilings A Exposed Ceilings B Exposed Floors Gross Exp Wall B Components North Shaded East/West South Existing Windows Skylight Existing Windows Skylight Exposed Ceilings A et exposed walls A et exposed walls B Exposed Ceilings A Exposed Ceilings A Exposed Floors Suctive Heatloss Heat Loss Heat Gain	R-Values L 3.55 3.55 3.55 3.55 1.99 2.03 4.00 17.03 8.50 59.22 27.65	.0SS G 22.93 22.93 22.93 40.90 40.10 20.35 4.78 9.58 1.37 2.94 2.73	ain 11.62 29.56 23.66 88.23 2.50 0.65 1.29 0.17 x	31 / E 11.0 233 / E F 341	A B Area A B B Fir Loss 1628	2099 174 2273	11.0 216 A B F 352 L	rea	13.0 68 234 11 360 11 21 198 202	A B Area A B Fir Loss (252 427 966	58 130 :	26 A B B 12.0 76 Area A B Fir 312 Loss 47 1078 29 590 236 1128	Gain 1389 80 152	45 A B 1.0 121 Area A B Fir 195 Loss C 30 688	675 300	B 1.0 Area A B Fir		B 1.0 Area A B Fir	B 11.0 Area A B Fir	Gain	B 11.0 Area A B Fir		11.0 11.0	B Area A B Fir		B O Area A B Fir	ain
Run Run E E Ni Ne E E Foundation Cond Total Conductive	Level 2 Ift. exposed wall A Ift. exposed wall B Ceiling height Floor area Exposed Ceilings A Exposed Floors Gross Exp Wall A Gross Exp Wall B Components North Shaded East/West South Existing Windows Skylight Doors et exposed walls A et exposed walls A et exposed walls A Exposed Ceilings B Exposed Floors functive Heatloss Heat Loss Heat Gain	R-Values L 3.55 3.55 3.55 3.55 1.99 2.03 4.00 17.03 8.50 59.22 27.65	.0ss G 22.93 22.93 22.93 40.90 40.10 20.35 4.78 9.58 1.37 2.94 2.73	ain 11.62 29.56 22.50 23.66 88.23 2.75 0.65 1.29 0.64 1.37 0.17	31 / E 11.0 233 / E F 341	A B B Area A B B Fir Loss 1628	2099 174 2273	11.0 216 A B F 352 L	oss Gai	13.0 68 234 n 11 360 21 198 202	A B Area A B Fir Loss (252	58 130 :	26 A B B 12.0 76 Area A B Fir 312 Loss 47 1078 29 590 1128 2796	Gain 1389 80 152	45 A B B 1.1.0 121 Area A B Fir 1995 Loss G 688 165 2223	675 300	B 1.0 Area A B Fir		B 1.0 Area A B Fir	B 11.0 Area A B Fir	Gain	B 11.0 Area A B Fir		11.0 11.0	B Area A B Fir		B O Area A B Fir	ain
Run Run E E Note Note Note E E Foundation Cond Total Conductive Air Leakage	Level 2 Ift. exposed wall A Ift. exposed wall B Ceiling height Floor area Exposed Ceilings B Exposed Floors Gross Exp Wall B Components North Shaded East/West South Existing Windows Skylight Doors et exposed walls A et exposed walls B Exposed Floors Juctive Heatloss Heat Loss Heat Gain Heat Loss/Gain	R-Values L 3.55 3.55 3.55 3.55 1.99 2.03 4.00 17.03 8.50 59.22 27.65	22.93 22.93 22.93 40.90 40.10 20.35 4.78 9.58 1.37 2.94 2.73	11.62 29.56 22.50 23.66 88.23 2.75 0.65 1.29 0.64 1.37 0.17 x	31 / E 11.0 233 / E F 341	A B Area A B B Fir Loss 1628	2099 174 2273	11.0 216 A B F 352 L	rea	13.0 68 234 n 11 360 21 198 202	A B Area A B Fir Loss (252	58 130 :	26 A B B 12.0 76 Area A B Fir 312 Loss 47 1078 29 590 1128 2796	Gain 1389 80 152	45 A B B 1.1.0 121 Area A B Fir 1995 Loss G 688 165 2223	675 300	B 1.0 Area A B Fir		B 1.0 Area A B Fir	B 11.0 Area A B Fir	Gain	B 11.0 Area A B Fir		11.0 11.0	B Area A B Fir		B O Area A B Fir	ain
Run Run E E Note Note Note E E Foundation Cond Total Conductive Air Leakage	Level 2 Ift. exposed wall A Ift. exposed wall B Ceiling height Floor area Exposed Ceilings B Exposed Floors Gross Exp Wall A Gross Exp Wall B Components North Shaded East/West South Existing Windows. Skylight Doors et exposed walls A exposed Ceilings B Exposed Ceilings B Exposed Ceilings B Exposed Floors ductive Heatloss Heat Loss Heat Loss Heat Casi Heat Loss/Gain Lase 2	R-Values L 3.55 3.55 3.55 1.99 2.03 4.00 17.03 8.50 59.22 27.65 29.80	.0ss G 22.93 22.93 40.90 40.10 20.35 4.78 9.58 1.37 2.94 2.73 0.4457 0.4457	11.62 29.56 22.50 23.66 88.23 2.75 0.65 1.29 0.64 1.37 0.0432 0.0432	31 / E 11.0 233 / E F 341	A B B Area A B B Fir Loss 1628 2919 1301	2099 174 2273 98	11.0 216 A B F 352 L	rea	13.0 68 234 11 360 21 198 202	A B Area A B Fir Loss (252	58 130 316	26 A B B 12.0 76 Area A B Fir 312 Loss	Gain 1389 80 152 4 1621 70	45 A B B 1.0 121 Area A B Fir 195 Loss C 2223 2910 1297	675 300 975 42	B 1.0 Area A B Fir		B 1.0 Area A B Fir	B 11.0 Area A B Fir	Gain	B 11.0 Area A B Fir		11.0 11.0	B Area A B Fir		B O Area A B Fir	ain
Run Run E E Note Note Note Note Note Note Note Not	Level 2 Ift. exposed wall A Ift. exposed wall A Ift. exposed wall B Ceiling height Floor area Exposed Ceilings A Exposed Floors Gross Exp Wall B Components North Shaded East/West South Existing Windows Skylight Doors et exposed walls A et exposed walls A Exposed Ceilings B Exposed Floors Exposed Floors Exposed Floors Exposed Floors Letter Berther Exposed Floors Le	R-Values L 3.55 3.55 3.55 1.99 2.03 4.00 17.03 8.50 59.22 27.65 29.80	22.93 22.93 22.93 40.90 40.10 20.35 4.78 9.58 1.37 2.94 2.73 0.4457 0.03 14.95	ain 11.62 29.56 23.66 88.23 2.50 0.65 1.29 0.17 x 0.0432 0.0432 0.06 11.88	31 / E 11.0 233 / E 4 341 1 1 270	A B B Area A B B Fir Loss 1628 2919 1301	2099 174 2273 98	11.0 216 A B F 352 L	1055 1 1463 2517 1 1122 87	13.0 68 234 11 360 21 198 202	A B Area A B Fir Loss C 252 427 966 1645 733	58 130 316	26 A B B 12.0 76 Area A B Fir 312 Loss	Gain 1389 80 152 1621 70 105	45 A B B 1.0 121 Area A B Fir 195 Loss C 2223 2910 1297	675 300 975 42	B 1.0 Area A B Fir		B 1.0 Area A B Fir	B 11.0 Area A B Fir	Gain	B 11.0 Area A B Fir		11.0 11.0	B Area A B Fir		B O Area A B Fir	ain
Run	Level 2 Ift. exposed wall A Ift. exposed wall A Ceiling height Floor area Exposed Ceilings B Exposed Floors Gross Exp Wall A Gross Exp Wall B Components North Shaded East/West South Existing Windows. Skylight Doors et exposed walls A Exposed Ceilings B Exposed Ceilings B Exposed Ceilings A Exposed Ceilings A Exposed Floors Suctive Heat Loss Heat Loss Heat Loss Heat Loss Heat Gain Case 2 Case 3 Less 2 Less 2 Less 3 Leat Gain People Appliances Loads	R-Values L 3.55 3.55 3.55 1.99 2.03 4.00 17.03 8.50 59.22 27.65 29.80	22.93 22.93 22.93 40.90 40.10 20.35 4.78 9.58 1.37 2.94 2.73 0.4457 0.03 14.95	11.62 29.56 22.50 23.66 88.23 2.75 0.65 1.29 0.64 1.37 0.17 x	31 / E 11.0 233 / E 4 341 1 1 270	A B B Area A B B Fir Loss 1628 2919 1301	2099 174 2273 98	11.0 216 A A B B F S 352 L 46	1055 1 1463 2517 1 1122 87	13.0 68 234 n 11 360 21 198 202	A B Area A B Fir Loss C 252 427 966 1645 733	58 130 : : : : : : : : : : : : : : : : : : :	26 A B B 12.0 76 Area A B Fir 312 Loss	Gain 1389 80 152 1621 70 105	45 A B B 1.1.0 121 Area A B Fir 1995 Loss 6 30 688 2223 2910 1297	675 300 975 42	B 1.0 Area A B Fir		B 1.0 Area A B Fir	B 11.0 Area A B Fir	Gain	B 11.0 Area A B Fir		11.0 11.0	B Area A B Fir		B O Area A B Fir	ain
Run	Level 2 Ift. exposed wall A Ift. exposed wall B Ceiling height Floor area Exposed Ceilings B Exposed Floors Gross Exp Wall B Components North Shaded East/West South Existing Windows Skylight Doors et exposed walls B Exposed Ceilings A et exposed Walls B Exposed Ceilings A Exposed Ceilings B Exposed Floors Juctive Heatloss Heat Loss Heat Gain Heat Loss/Gain Case 1 Case 2 Case 3 Heat Gain People	R-Values L 3.55 3.55 3.55 1.99 2.03 4.00 17.03 8.50 59.22 27.65 29.80	22.93 22.93 22.93 40.90 40.10 20.35 4.78 9.58 1.37 2.94 2.73 0.4457 0.03 14.95	ain 11.62 29.56 22.50 23.66 88.23 2.75 1.29 0.64 1.37 0.17 x 0.0432 0.06 11.88 0.06 11.88 2.94 2.94 2.94 2.94 2.94 2.94 2.94 2.94	31 / E 11.0 233 / E 4 341 1 1 270	A B B Area A B B Fir Loss 1628 2919 1301	2099 174 2273 98 147 1586	11.0 216 A A B B F S 352 L 46	1055 1 1463 2517 1 1122 87	13.0 68 234 n 11 360 21 198 202	A B Area A B Fir Loss C 252 427 966 1645 733	58 130 : : : : : : : : : : : : : : : : : : :	26 A B B 12.0 76 Area A B Fir 312 Loss	Gain 1389 80 152 1621 70 105	45 A B B 1.1.0 121 Area A B Fir 1995 Loss 6 30 688 2223 2910 1297	675 300 975 42	B 1.0 Area A B Fir		B 1.0 Area A B Fir	B 11.0 Area A B Fir	Gain	B 11.0 Area A B Fir		11.0 11.0	B Area A B Fir		B O Area A B Fir	ain
Run	Level 2 Ift. exposed wall A Ift. exposed wall A Ceiling height Floor area Exposed Ceilings A Exposed Floors Gross Exp Wall B Components North Shaded East/West South Existing Windows Skylight Doors et exposed walls A et exposed Walls A Exposed Floors Exposed Floors Exposed Floors Exposed Floors Heat Loss Heat Loss Heat Loss Heat Loss Heat Gain Heat Loss/Gain Case 1 Case 2 Case 3 Het Gain People Appliances Loads Duct and Pipe loss	R-Values L 3.55 3.55 3.55 1.99 2.03 4.00 17.03 8.50 59.22 27.65 29.80	22.93 22.93 22.93 40.90 40.10 20.35 4.78 9.58 1.37 2.94 2.73 0.4457 0.03 14.95 0.03	11.62 22.50 22.50 22.60 68.23 2.75 0.64 1.37 0.043 0.06 11.88 0.06 11.88 0.06 239 4229 109 427 109 427 427 428 429 429 429 429 429 429 429 429 429 429	31 / E 11.0 233 / E 4 341 1 1 270	A B B Area A B B Fir Loss 1628 1291 1301 101	2099 174 2273 98 147 1586	306 0.5	oss Gai 1055 1 1463 2517 1 1122 87	13.0 68 234 11 360 21 198 202 557 67 101 529 1.0	A B Area A B Fir Loss (252 427 966 1645 733 57	3ain 128 58 130 316 14 20 1057	26 A B B 12.0 P	Gain 1389 80 152 4 1621 70 105	45 A B 1.0 121 Area A B Fir 195 Loss C 2010 1297 1101	975 42 63 1057	B 1.0 Area A B Fir		B 1.0 Area A B Fir	B 11.0 Area A B Fir	Gain	B 11.0 Area A B Fir		11.0 11.0	B Area A B Fir		B O Area A B Fir	ain
Run Run E E Note Note E E Foundation Cond Total Conductive Air Leakage Ventilation	Level 2 Ift. exposed wall A Ift. exposed wall B Ceiling height Floor area Exposed Ceilings B Exposed Floors Gross Exp Wall B Components North Shaded East/West South Existing Windows Skylight Doors et exposed walls B Exposed Ceilings A Exposed Ceilings A Exposed Ceilings A Exposed Ceilings B Exposed Ceilings B Exposed Floors Juctive Heatloss Heat Loss Heat Gain Heat Loss/Gain Case 1 Case 2 Case 3 Heat Gain People Appliances Loads Duct and Pipe loss 18,930	R-Values L 3.55 3.55 3.55 1.99 2.03 4.00 17.03 8.50 59.22 27.65 29.80	22.93 22.93 22.93 40.00 20.35 4.78 9.58 1.37 2.94 2.73 0.4457 0.03 14.95 0.03	11.62 22.50 22.50 22.60 68.23 2.75 0.64 1.37 0.043 0.06 11.88 0.06 11.88 0.06 239 4229 109 427 109 427 427 428 429 429 429 429 429 429 429 429 429 429	31 / E 11.0 233 / E 4 341 1 1 270	A B B Area A B B Fir Loss 1628 1291 1301 101	2099 174 2273 98 147 1586	306 0.5	oss Gai 1055 1 1463 2517 1 1122 87	13.0 68 234 n 11 360 21 198 202	A B Area A B Fir Loss (252 427 966 1645 733 57	58 130 : : : : : : : : : : : : : : : : : : :	26 A B B 12.0 P	Gain 1389 80 152 1621 70 105	45 A B 1.0 121 Area A B Fir 195 Loss C 2010 1297 1101	675 300 975 42	B 1.0 Area A B Fir		B 1.0 Area A B Fir	B 11.0 Area A B Fir	Gain	B 11.0 Area A B Fir		11.0 11.0	B Area A B Fir		B O Area A B Fir	ain

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 Alex

David DaCosta

SB-12 Package
Package A1



55,002

28,387

btu/h

Total Heat Loss

Total Heat Gain

Heatloss/Gain Calculations CSA-F280-12

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e-mail hvac@gtadesigns.ca

Name Met

David DaCosta

Package A1

	Duitden Dendem	Malliantan F	N=4=.	lulu 04 0004			Washan Data	B#	44 04	00 00 40.0		P 5
	Builder: Bayview	Wellington [Date:	July 21, 2021 Barossa 3			Weather Data	Bradford	44 -9.4	86 22 48.2		Page 5 Project # PJ-00041
2012 OBC	Project: Green V	alley East Mo	odel:	S38-3		System 1	Heat Loss ^T	81.4 deg. F	Ht gain ^T 1	1 deg. F GTA:	2544	Layout # JB-07351
Run ft. exposed wall Run ft. exposed wall Ceiling height Floor are Exposed Ceilings Exposed Ceilings Exposed Ceilings Exposed Ceilings Exposed Floor Gross Exp Wall Gross Exp Wall Gross Exp Wall Exposed Floor South Floor Gross Exp Wall Existing Window Skyligh Door Net exposed walls Net exposed Walls Exposed Ceilings Exposed Ceilings Exposed Ceilings Exposed Ceilings Floor Foundation Conductive Heatloss	8 R-Values Loss Gain 1 3.55 22.93 11 1 3.55 22.93 22 3 3.55 22.93 22 3 1.99 40.90 22 4 1.99 40.90 23 4 1.93 40.10 88 5 4.00 20.35 2 4 17.03 4.78 (6 8 8.50 9.58 1 8 8.50 9.58 1 8 59.22 1.37 (6 8 29.80 2.73 (6	MAST 30 A B 11.0 297 Area 297 A B Fir 330 Loss Gain	BED 2 18 A B 9.0 165 Area 165 A B 9 Fir 162 Loss Gain 16 367	BATH 15 A B 9.0 74 Area 74 A B 74 FIr	175 241 11	LOFT 31 A B 9.0 269 Area 269 A B 12 Fir 279 Loss Gain 01 39 894 1153	Heat Loss ^T BED 4 13 A	81.4 deg. F ENS 2 6 A B 9.0 69 Area 69 A B Fir 54 Loss Gain 7 161 156 47 225 36 69 95 4	ENS 22 A B 9.0 113 Area 113 A B Fir 198 Loss Gain 13 298 38	A B 9.0 Area A B Fir Loss Gain	A B B 9.0 Area A B Fir Loss Ga	A B B 9.0 Area A B Fir
Total Conductive	0.2938 0.0 0.2938 0.0 1 0.02 (14.95 11 3 x 0.03 (3 1 = 25 percent 4 5 Total HL for per room x	1329 432 754 57 106 .88 89 86 239 2 478 229 0% 0m 3409	387 46 1	388 465 17 337 20 25 40 30 239 1 149 47 1675 869 730	91 10 1 23	62 1482 68 718 64 01 85 96 39 96	35 33 1 239 1361 1041	23: 141 1: 17 1: 638 33:	2 57 0 393 2 5 46 3	7	A B	A B
Edining inely Floor are Exposed Ceilings i Exposed Floor Gross Exp Wall i Gross Exp Wall i	1 A 3 5	Area A B Fir	Area A B Fir	Area A B FIr	Area A B Fir	Area A B Fir	Area A B Fir	Area A B Fir	Area A B Fir	Area A B Fir	Area A B Fir	Area A B Fir
	R-Values Loss Gain	.62 .56 .55 .55 .50 .66 .123 .75 .65 .29 .64 .37 .17 .17	Loss Gali	n Loss Gain	Loss Gain	Loss Gain	Loss Gain	Loss Gain	Loss Gain	Loss Gain	Loss Ga	Loss Gain

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



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

1 2

3 4 Х Project # Layout #

Page 6 PJ-00041 JB-07351

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 Mane State

Division C su	bsection 3.2.5. of the Building Code.	Individual BCIN:	32964	Lane	ALEX-	r	David DaCosta	ì
Package: Project:	Package A1 Bradford		Model:			S38-3		
	RESIDENTIAL MECH. For systems serving one dwell	_	_	_				
	Location of Installation			Total Ver	ntilation Ca	pacity 9.32	2.3.3(1)	
Lot #	Plan #				_			
Township	Bradford	C	Bsmt & Maste Other Bedroc Bathrooms &	oms	2 3 5	@ 10.6	cfm 42.4 cfm 31.8 cfm 53	cfm
Roll #	Permit #		Other rooms		5		cfm 53 180.2	cfm
Address								•
			F	Principal V	entilation C	Capacity 9.	32.3.4(1)	
Name	Builder	Λ.	Master bedro	oom	1	@ 31.8	cfm 31.8	cfm
Address	Bayview Wellington		Other bedroo		1	@ 15.9 Total		cfm
								4
City				Drinci	pal Exhaus	Fan Cana	oity	
Tel	Fax		Ma			odel	Location	
	2		Var	nEE	V150	H75NS	Base	
Name	Installing Contractor		140	cfm			Sones	or Equiv.
Address			* 4 - 1 -	Hea	at Recovery		r	
City			Make Model			anEE 0H75NS		-
			•		40 cfm high			cfm low
Tel	Fax	S	Sensible effic Sensible effic	ciency @ -2	25 deg C		60% 75%	
						?V to within	10 percent of I	
	Combustion Appliances 9.32.3.1(1)		110.0.		nental Vent			
a) x b) c) d) e)	Direct vent (sealed combustion) only Positive venting induced draft (except fireple Natural draft, B-vent or induced draft firepla Solid fuel (including fireplaces) No combustion Appliances	ces L	Γotal ventilati ∟ess principa REQUIRED s	al exhaust o supplemen	capacity tal vent. Ca	•	180.2 79.5 100.7	_
	Harden Contain			Supp	olemental F			
x	Heating System Forced air		Location Ens		cfm 50	Model XB50		
	Non forced air		Ens 2		50	XB50	0.3	3
	Electric space heat (if over 10% of heat load	(k	Bath		50	XB50	0.3	i
I X	House Type 9.32.3.1(2) Type a) or b) appliances only, no solid fuel Type I except with solid fuel (including fireple)		all fans HVI li	listed	Make	Broan	or Equiv.	
III 🗀	Any type c) appliance				esigner Ce			-
IV Other	Type I or II either electric space heat Type I, II or IV no forced air		hereby certii n accordance				been designed	i

, ,		Certification n system has been uilding Code.	ı designed
Name	David D	aCosta	
Signature	Hane	Macon	3
HRAI#	5190	BCIN#	32964
Date	July 21	, 2021	

♦GTA\DESIGNS

Energy Efficiency Design Summary: Prescriptive Method

(Building Code Part 9, Residential)

Page 7

Project # PJ-00041 Layout # JB-07351

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	e by Princip	pal Authori	ty				
Application No:					Model/Cer	tification Nu	mber			
A. Project Information										
Building number, street name			Baross	sa 3			Unit num	ber	Lot/Con	
			S38-	3						
Municipality Bradford			Postal co	de	Reg. Plan	number / otl	her descri	ption		
B. Prescriptive Compliance [indica	ate the bu	ilding cod	e complia	ance packa	ige being e	mployed in	the hous	e design]		
SB-12 Prescriptive (input design pa	ackage):			<u>Pack</u>	age A1			Table	3.1.1.2.	<u>A</u>
C. Project Design Conditions										
Climatic Zone (SB-1):		Heat. E	quip. Et	fficiency			Spa	ce Heating F	uel Sourc	e
Zone 1 (< 5000 degree days)		✓ ≥ 92	% AFUE		7	Gas		Propane		Solid Fuel
☐ Zone 2 (≥ 5000 degree days)		□ ≥8	4% < 929	% AFUE		Oil		Electric		Earth Energy
Ratio of Windows, Skylights & Glas	ss (W, S	& G) to \	Nall Are	a			Other	Building Ch	aracteris	tics
Area of Walls = 386.19 m ² or 4156.9	ft²				☐ Log/F	ost&Beam		ICF Above	Grade	☐ ICF Basement
Area or Walls = <u>900.15</u> III or <u>4100.5</u>		W,S &	G % =	9.9%	☐ Slab-	on-ground		Walkout Ba	sement	
					☑ Air C	onditioning		Combo Uni	t	
Area of W, S & G = <u>38.275</u> m ² or <u>412.0</u>	ft²	Utilize V		Yes	☐ Air S	Air Sourced Heat Pump (ASHP)				
		Avera	aging	✓ No	☐ Grou	nd Source I	Heat Pum	np (GSHP)		
D. Building Specifications [provide	e values a	nd ratings	of the er	nergy effici	ency comp	onents pro	posed]			7
Energy Efficiency Substitutions										
☐ ICF (3.1.1.2.(5) & (6) / 3.1.1.3.(5))										
Combined space heating and domestic										
Airtightness substitution(s)		Table 3.1	.1.4.B	Required:				Permitted S		
Airtightness test required		Table 3.1	.1.4.C	Required:				Permitted S		
(Refer to Design Guide Attached)				Required:				Permitted S	Substitution	1:
Building Component		mum RS //aximun				Buil	ding Co	mponent		Efficiency Ratings
Thermal Insulation	Non	ninal	Effe	ective	Windov	/s & Doo	rs Provid	de U-Value ⁽¹⁾ c	r ER rating	
Ceiling with Attic Space	6	0	59	9.22	Windows	s/Sliding G	lass Do	ors		1.6
Ceiling without Attic Space	3	1	27	7.65	Skylights	1				2.8
Exposed Floor	3	1	29	9.80	Mechar	icals				
Walls Above Grade	22		17	7.03		Equip.(AFl				96%
Basement Walls		20.0ci	21	1.12	HRV Effi	ciency (SF	RE% at 0°	(C)		75%
Slab (all >600mm below grade))	X		Х		ater (EF)				0.80
Slab (edge only ≤600mm below grade)		0		1.13	-	CSA B55.1		efficiency))		#Showers 2
Slab (all ≤600mm below grade, or heated)	l	0		1.13	Combine	d Heating	System			
(1) U value to be provided in either W/(m²·K) or Bt										
E. Designer(s) [name(s) & BCIN(s), if	applicable	e, of perso	n(s) prov		mation her			at design mee	ts building	code]
Name				BCIN		Signature		11	11/	,
David DaCosta				329	964			Mane	14CI	76 7



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Page 8
Project # PJ-00041
Layout # JB-07351

Package: Package A1 System: System 1
Project: Bradford Model: S38-3

Project:		Model: S38-	
	Air Leakage Ca	alculations	
	Building Air Leakage Heat Loss B LRairh Vb HL^T HLleak 0.018 0.393 33025 81.4 18999	Building Air Leakage B	Heat Gain HG^T HG Leak 11 631
ı,	Air Leakage Heat Loss/Gain Multiplier Table (Section 11)	Levi	els 4
	Level Level Factor (LF) Air Heat Loss Multiplie	eat Loss (LF) (LF)	(LF) (LF) 0.5 0.4 0.3 0.3 0.2 0.2 0.1
	Air Leakage He HG LEAK 631 0.0432 BUILDING CONDUCTIVE HEAT GAIN 14610		
•	Ventilation Ca	lculations	
	Ventilation Heat Loss	Ventilation Heat Ga	in
Vent	Ventilation Heat Loss C PVC HL^T (1-E) HRV HLbvent 1.08 79.5 81.4 0.17 1188	Ventilation Heat Gain C PVC HG^T HGbv 1.1 79.5 11 94	
	Case 1	Case 1	
	Ventilation Heat Loss (Exhaust only Systems)	Ventilation Heat Gain (Exhaust (Only Systems)
	Case 1 - Exhaust Only Level LF HLbvent LVL Cond. HL Multiplier Level 1 0.5 8607 0.07 Level 2 0.3 12787 0.03 Level 3 0.2 12934 0.02 Level 4 0 0 0.00	Case 1 - Exhaust Only HGbvent 944 Building 14610 Multip	Q
	Case 2	Case 2	
Case 2	Ventilation Heat Loss (Direct Ducted Systems) Multiplier C HL^T (1-E) HRV 1.08 81.4 0.17 14.95	Ventilation Heat Gain (Direct Du	olier S
	Case 3	Case 3	
e	Ventilation Heat Loss (Forced Air Systems)	Ventilation Heat Gain (Forced	<u> </u>
Case	Total Ventilation Load 1188 0.03	Vent Head Vent Head	Ö
Founda	tion Conductive Heatloss Level 1 Level 1	2203 Watts 751	5 Btu/h
Founda	tion Conductive Heatloss Level 2 Level 2	Watts	Btu/h
Slab on	Grade Foundation Conductive Heatloss	Watts	Btu/h
Walk Ou	ut Basement Foundation Conductive Heatloss	Watts	Btu/h
	d take responsibility for the design work and am qualified in the appropriate cat	egory as an "other designer" under	

Envelope Air Leakage Calculator

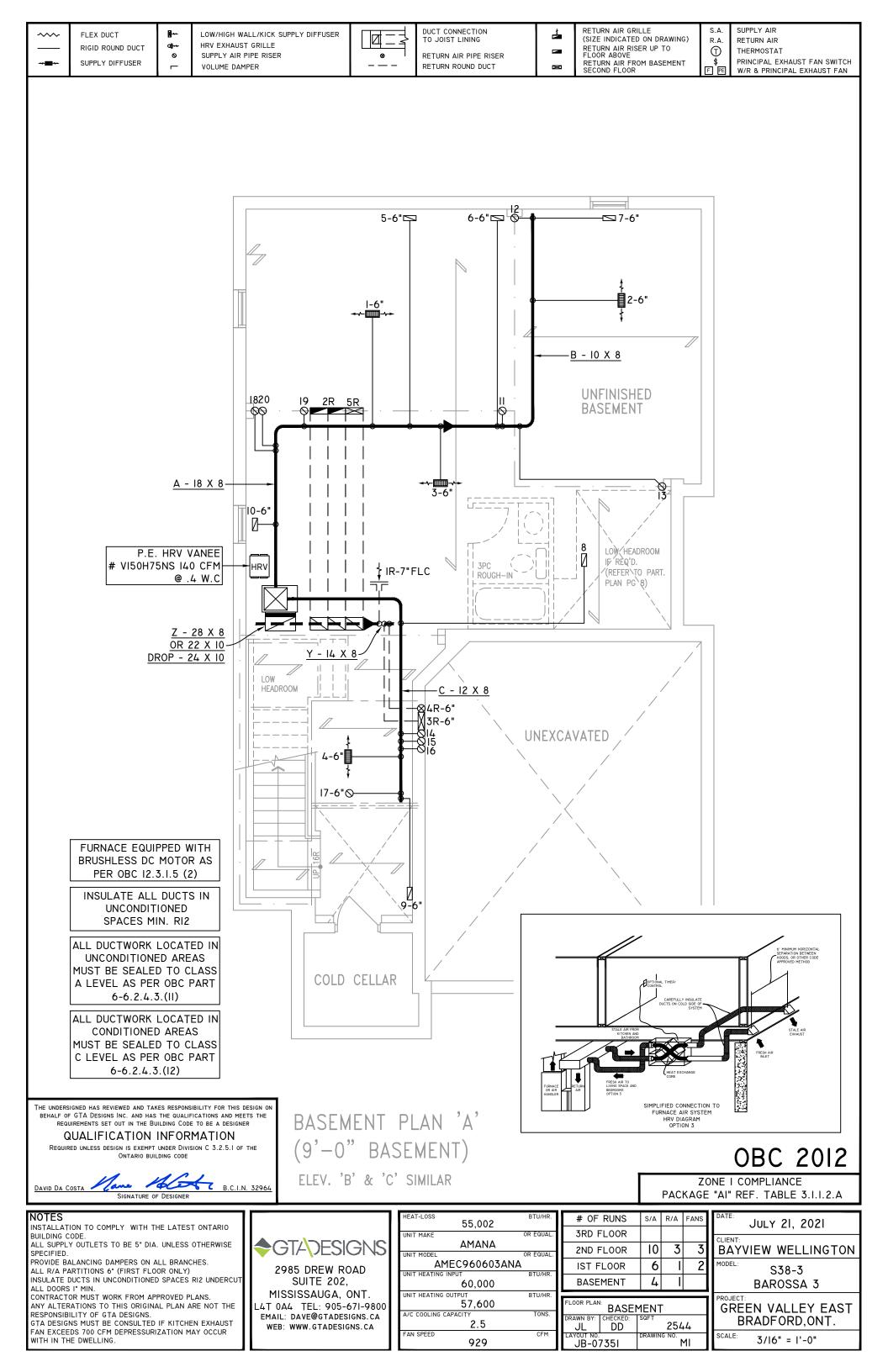
Supplemental tool for CAN/CSA-F280

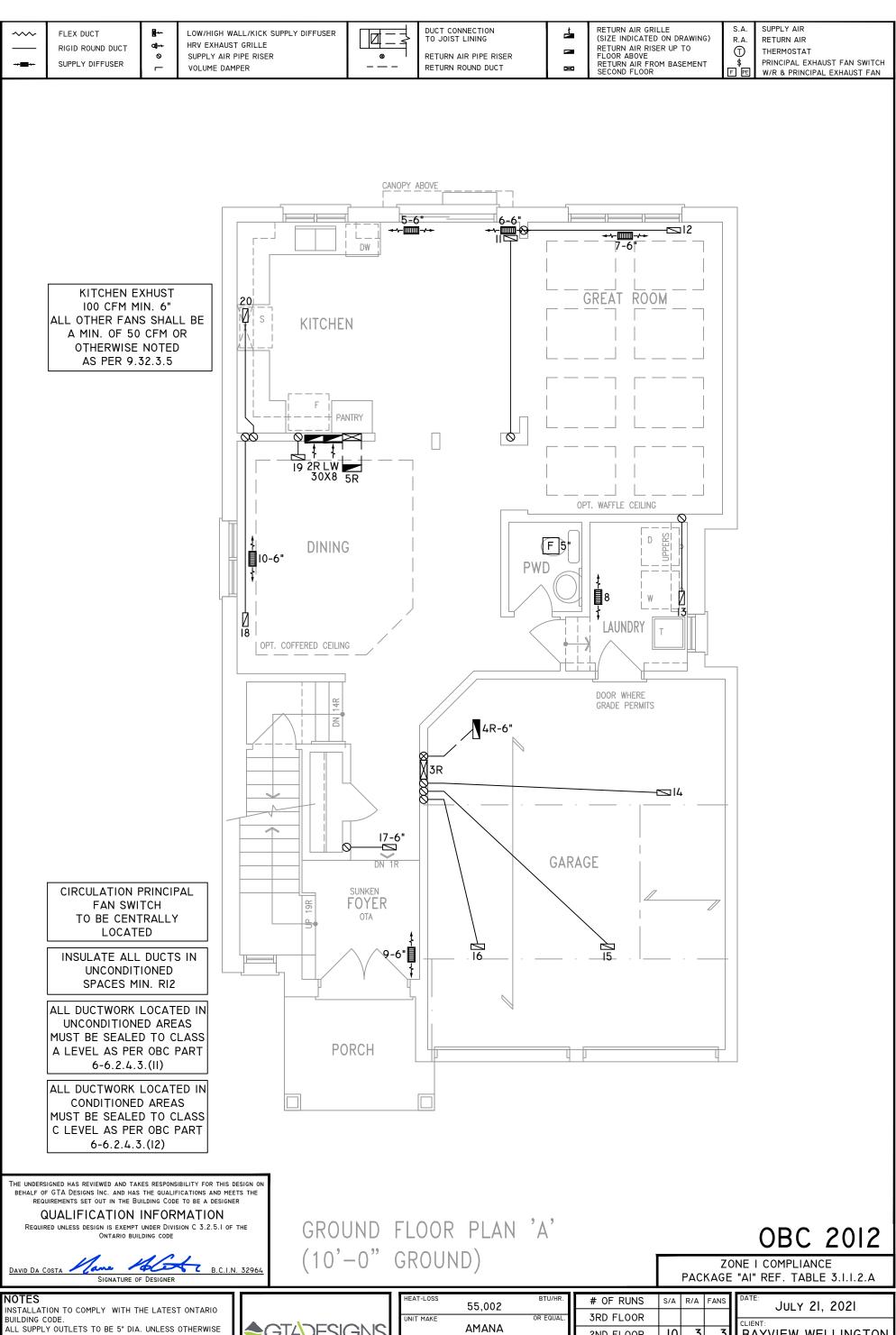
Weather Station	Description
Province:	Ontario $lacksquare$
Region:	Bradford ▼
Weather Station Location:	Open flat terrain, grass
Anemometer height (m):	10
Local Shiel	ding
Building Site:	Suburban, forest
Walls:	Heavy ▼
Flue:	Heavy ▼
Highest Ceiling Height (m):	8.53
Building Confi	guration
Type:	Detached
Number of Stories:	Two
Foundation:	Shallow
House Volume (m ³):	935.27
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):	0.393
Cooling Air Leakage Rate (ACH/H):	0.097

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)								
Foundation Dimensions										
Floor Length (m):	18.02									
Floor Width (m):	5.29									
Exposed Perimeter (m):	46.63									
Wall Height (m):	3.05									
Depth Below Grade (m):	1.22	Insulation Configuration								
Window Area (m²):	2.69									
Door Area (m²):	1.95									
	Radi	ant Slab								
Heated Fraction of the Slab:	0									
Fluid Temperature (°C):	33									
	Desig	n Months								
Heating Month	1									
	Founda	ation Loads								
Heating Load (Watts):		2203								





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.

GTADESIGNS

2985 DREW ROAD SUITE 202, MISSISSAUGA, ONT.

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

AMANA OR EQUAL AMEC960603ANA 60,000 BTU/HR 57,600 2.5 FAN SPEED 929

10 3 3 2ND FLOOR IST FLOOR 6 2 **BASEMENT** GROUND FLOOR

DD

JB-07351

2544

M2

DRAWING NO

BAYVIEW WELLINGTON MODEL: S38-3 BAROSSA 3 GREEN VALLEY EAST

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

RETURN AIR GRILLE (SIZE INDICATED ON DRAWING) DUCT CONNECTION TO JOIST LINING SUPPLY AIR LOW/HIGH WALL/KICK SUPPLY DIFFUSER 4 FLEX DUCT R.A RETURN AIR HRV EXHAUST GRILLE RETURN AIR RISER UP TO FLOOR ABOVE RIGID ROUND DUCT al⊶ 1 THERMOSTAT 0 RETURN AIR PIPE RISER SUPPLY AIR PIPE RISER 8 RETURN AIR FROM BASEMENT SECOND FLOOR PRINCIPAL EXHAUST FAN SWITCH SUPPLY DIFFUSER RETURN ROUND DUCT VOLUME DAMPER W/R & PRINCIPAL EXHAUST FAN CANOPY ABOVE 60"x42" GLASS SHOWER _____ OPT. RAISED TRAY CEILING 6'-0" OVAL MASTER BEDROOM 20 **ENSUITE** F 5 ENS.2 [F]5" WIC WIC 5R HW ‡ 14X8 BEDROOM 4 BEDROOM 2 13 LINEN 4R HW 14X8 M WIC SHARED **MEDIA** (F 5 LOFT 17-6" BEDROOM 3 **←** 0.T.B. 12" RAISED 15 16 CEILING **-**~-12" RAISED INSULATE ALL DUCTS IN CEILING UNCONDITIONED SPACES MIN. RI2 ALL DUCTWORK LOCATED IN UNCONDITIONED AREAS MUST BE SEALED TO CLASS ROOF BELOW A LEVEL AS PER OBC PART 6-6.2.4.3.(11) ALL DUCTWORK LOCATED IN FLAT ROOF BELOW 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 OBC 2012 ONTARIO BUILDING CODE SECOND FLOOR PLAN 'A' ZONE I COMPLIANCE B.C.I.N. 32964 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.

GTADESIGNS

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

WEB: WWW.GTADESIGNS.CA

55,002 UNIT MAKE AMANA OR EQUAL AMEC960603ANA 60,000 BTU/HR 57,600 2.5 FAN SPEED CFM 929

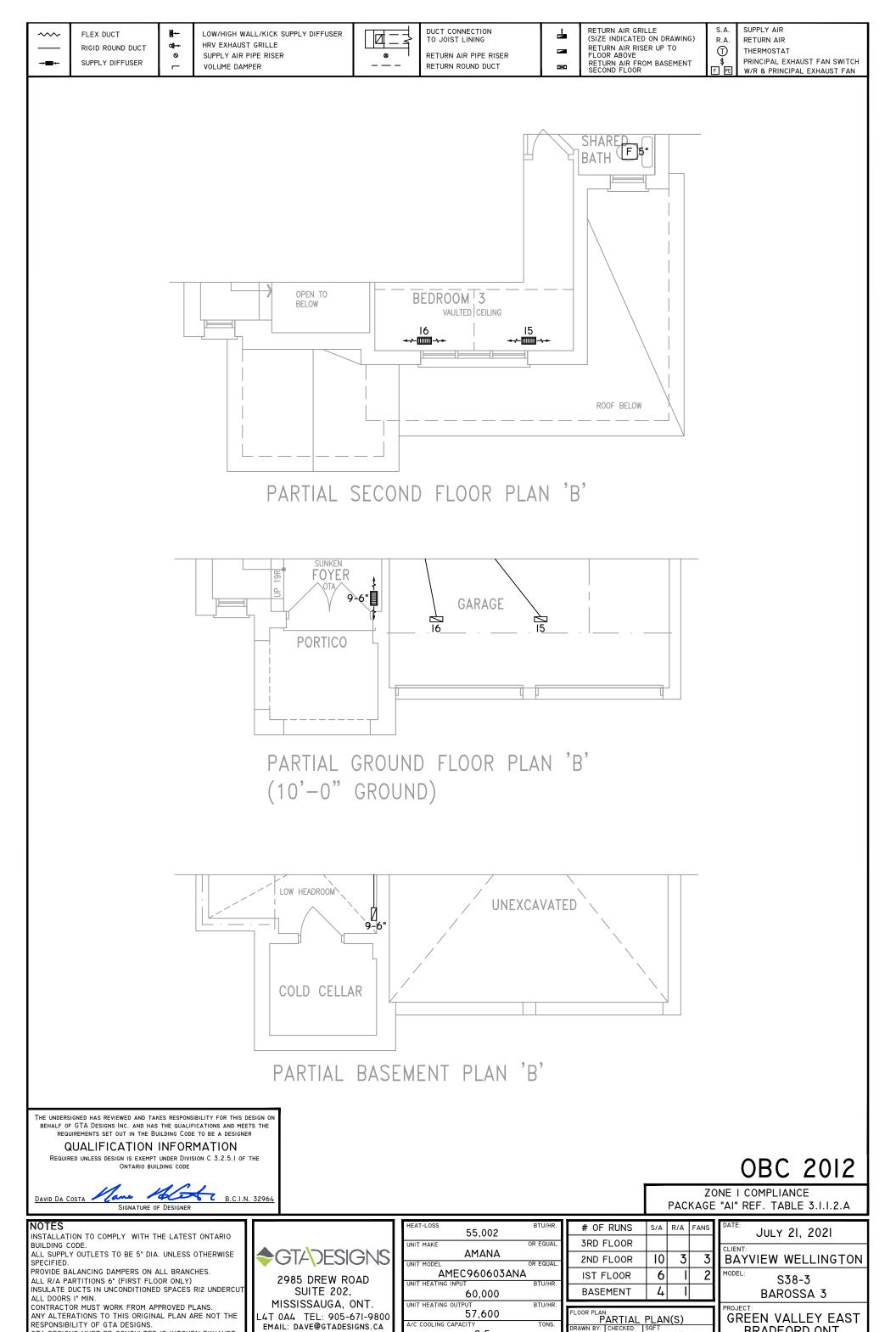
LA DIA FANO		DUNG	" 05
S/A R/A FANS	S/A	RUNS	# 01
		FLOOR	3RD F
10 3 3	10	FLOOR	2ND F
6 I 2	6	LOOR	IST F
4 1	4	MENT	BASE
LOOR	FLO	SECOND	FLOOR PLAN
	SQFT	CHECKED:	DRAWN BY:
2544		DD	JL

M3

уо<u>ит но:</u> JB-07351

JULY 21, 2021 CLIENT **BAYVIEW WELLINGTON** MODEL: S38-3 BAROSSA 3

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



2.5

929

FAN SPEED

WEB: WWW.GTADESIGNS.CA

GTA DESIGNS MUST BE CONSULTED IF KITCHEN EXHAUST FAN EXCEEDS 700 CFM DEPRESSURIZATION MAY OCCUR

WITH IN THE DWELLING.

BRADFORD, ONT.

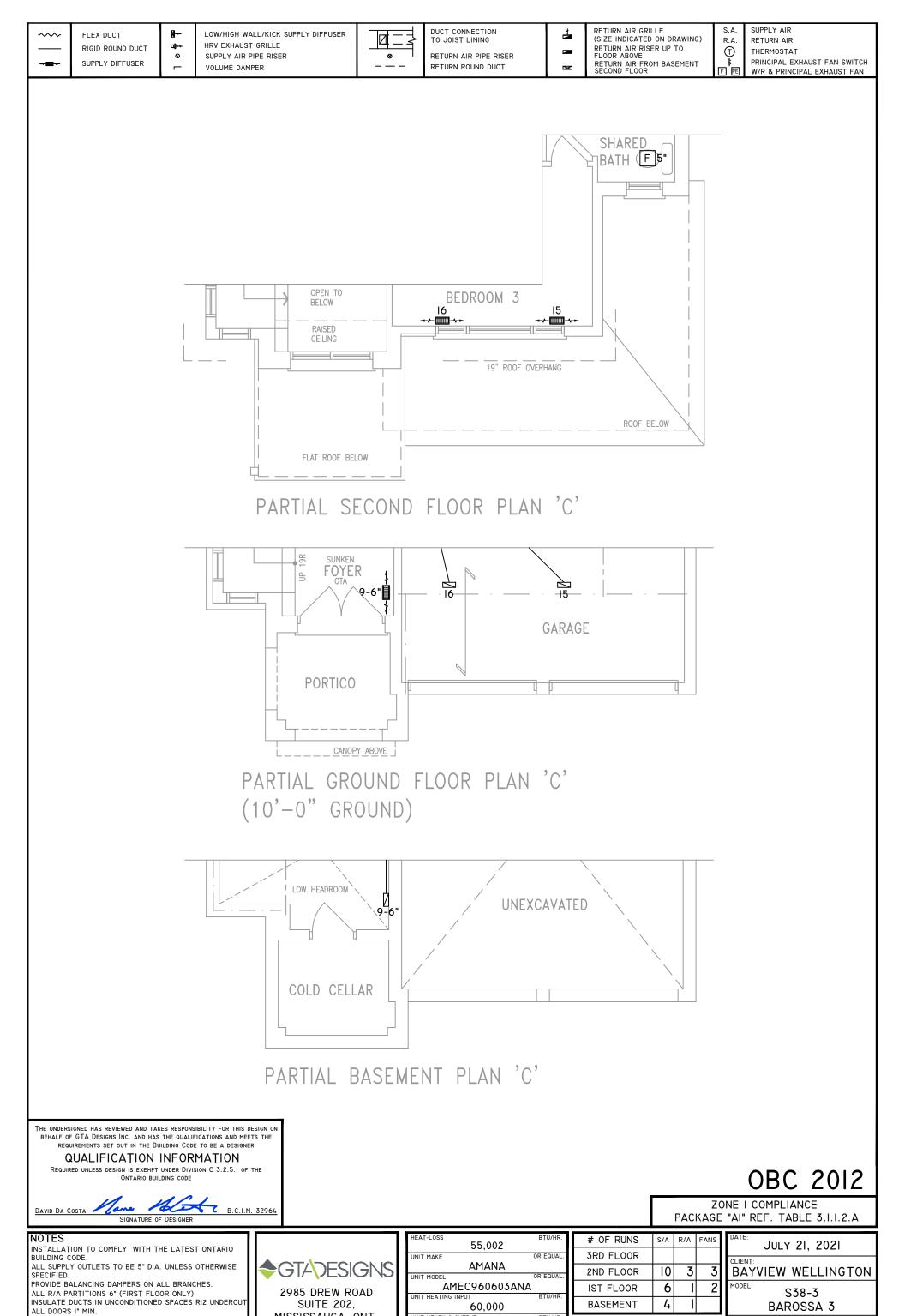
3/16" = 1'-0"

2544

M4

DD

JB-07351



60,000

57,600

2.5

929

BTU/HR

PARTIAL PLAN(S)

DD

JB-07351

2544

M5

MISSISSAUGA, ONT.

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

WEB: WWW.GTADESIGNS.CA

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

GTA DESIGNS MUST BE CONSULTED IF KITCHEN EXHAUST FAN EXCEEDS 700 CFM DEPRESSURIZATION MAY OCCUR

RESPONSIBILITY OF GTA DESIGNS.

WITH IN THE DWELLING.

BAROSSA 3

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 **aj**↔ 0 SUPPLY AIR PIPE RISER VOLUME DAMPER



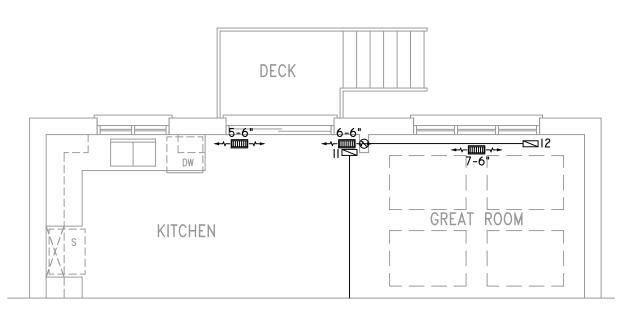
DUCT CONNECTION TO JOIST LINING RETURN AIR PIPE RISER

RETURN ROUND DUCT

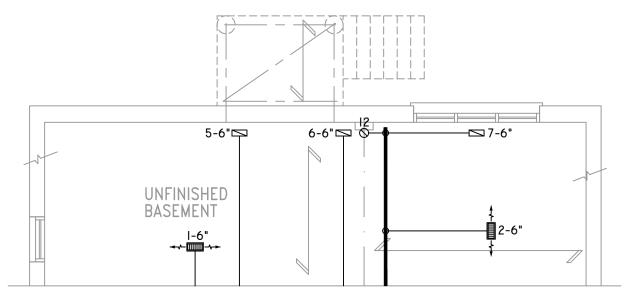
RETURN AIR GRILLE (SIZE INDICATED ON DRAWING) 4 RETURN AIR RISER UP TO FLOOR ABOVE RETURN AIR FROM BASEMENT SECOND FLOOR

SUPPLY AIR R.A. 1

RETURN AIR THERMOSTAT PRINCIPAL EXHAUST FAN SWITCH



GROUND FLOOR PLAN 'A' - W.O.D. CONDITION ELEV. 'B' & 'C' SIMILAR



BASEMENT PLAN 'A' - W.O.D. CONDITION ELEV. 'B' & 'C' SIMILAR

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

JULY 21, 2021

BAYVIEW WELLINGTON

3/16" = 1'-0"

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

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55,002	
UNIT MAKE	OR EQUAL.
AMANA	
UNIT MODEL	OR EQUAL.
AMEC960603ANA	
UNIT HEATING INPUT	BTU/HR.
60,000	
UNIT HEATING OUTPUT	BTU/HR.
57,600	
A/C COOLING CAPACITY	TONS.
2.5	
FAN SPEED	CFM
929	

# OF RUNS	S/A	R/A	FANS
3RD FLOOR			
2ND FLOOR	10	3	3
IST FLOOR	6	- 1	2
BASEMENT	4		
FLOOR PLAN: PARTIAL PLAN(S)			
	SOFT	v(3)	

DD

JB-07351

1 2	MODEL: \$38-3
	BAROSSA 3
(S)	GREEN VALLEY EAST BRADFORD,ONT.
2544	BRADFORD,ONT.

CLIENT

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