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TOTAL HT CAIN w/ 2 PTI/III	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED CLG EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS DUCT GAIN DUCT LOSS DUCT GAIN HEAT GAIN PEOPLE	20.4 20.4 20.4 20.4 20.4 20.4 20.4 20.4	AIN 5.1 60.7 64.1 60.7 99.9 3.7 0.5 0.6 1.2			3789			1118	0 0 0 78 0 0 703 0 0 65 0	71 111 781 LOSS 0 0 0 1587 0 0 2712 0 0 0 4490	0 0 0 3176 0 0 366 0 0 77 0	0 38 0 0 0 325 0 0 0	33 11 363 LOSS 0 0 773 0 0 0 1254 0 0 0 0 2027	GAIN 0 0 0 914 0 0 0 169 0 0 0 1084 54 0	27 0 0 0 0 249 0 0 0	OFF 23 12 276 LOSS 0 549 0 0 0 961 0 0 1510	GAIN 0 1099 0 0 0 0 0 0 0 0 0	0 7 0 0 0 77 0 0 0	PWD 7 112 844 LOSS 0 0 0 1442 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 168 0 0 40 0 0 0	0 0 0 0 0 40 236 0 0 0	FOY 23 12 276 LOSS 0 0 0 0 1082 910 0 0 0 1992 0.34 671	GAIN 0 0 0 0 146 123 0 0 0 0	L L C C C C C C C C C C C C C C C C C C	AUN 25 13 325 OSS 0 0 0 0 0 0 5541 1177 0 0 886 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 0 0 0 73 159 0 0 36 0	These plans have be corrections as note to made without writ Standards Branch. Zoning By-Law 2C Ontario Building approved documentimes. The building posted on site at all Discipline Building Code Building Code Sewage System	seen reviewd. No other approach of all work of the approach of	wed for us her change with must consist amende so amende so amende the kept on it must be	nbur N#16487 Isse with ges ma ne Buil omply ed, and ded. T n site a be clo	th the ay be alding with do the Fhese at all learly	0 10 0 0 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0	177 99 1001 LOS 100 0 0 0 0 0 54 0 0 0 0 0 0 0 625 917 0 0.7 688	6664 56 GAIN 2 76 0 0 1 73 0 0 0 55 275 0 0 0 0 33
TOTAL UT CAMINA 2 DTIVU	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SOUTH WEST SYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED WALL AND EXPOSED CLG EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT GAIN DUCT LOSS DUCT GAIN HEAT GAIN PEOPLE HEAT GAIN APPLIANCES/LIGHTS	20.4 20.4 20.4 20.4 20.4 20.4 20.4 20.4	AIN 5.1 60.7 64.1 60.7 99.9 3.7 0.5 0.6 1.2			3789			1118	0 0 0 78 0 0 703 0 0 65 0	71 11 781 LOSS 0 0 0 1587 0 0 2712 0 0 0 4490 0.34	0 0 0 3176 0 0 366 0 0 77 0	0 38 0 0 0 325 0 0 0	33 11 363 LOSS 0 0 0 773 0 0 0 1254 0 0 0 0 0 2027	GAIN 0 0 914 0 0 0 169 0 0 0 1084 54 0 0 0	27 0 0 0 0 249 0 0 0	OFF 23 12 276 LOSS 0 549 0 0 0 961 0 0 1510	GAIN 0 1099 0 0 0 1330 0 0 12229 61 0 0	0 7 0 0 0 77 0 0 0	PWD 7 112 844 LOSS 0 0 0 1442 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 168 0 0 40 0 0 0	0 0 0 0 0 40 236 0 0 0	FOY 23 12 276 LOSS 0 0 0 0 1082 910 0 0 0 1992 0.34 671	GAIN 0 0 0 0 146 123 0 0 0 0	L L C C C C C C C C C C C C C C C C C C	AUN 25 13 325 COSS (0 0 0 0 0 0 5541 1177 0 0 88 8 0 0 0 1806 0 0 1806 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 0 0 0 73 159 0 0 36 0	These plans have be corrections as note to made without writ Standards Branch. Zoning By-Law 2C Ontario Building approved documentimes. The building posted on site at all Discipline Building Code Building Code Sewage System	seen reviewd. No other approach of all work of the approach of	wed for us her change with must consist amende so amende so amende the kept on it must be	nbur N#16487 Isse with ges ma ne Buil omply ed, and ded. T n site a be clo	th the ay be alding with do the Fhese at all learly	0 10 0 0 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0	177 99 1001 LOS 100 0 0 0 0 0 54 0 0 0 0 0 0 0 625 917 0 0.7 688	6664 56 GAIN 2 76 0 0 4 241 0 0 1 73 0 0 0 0 55 275 0 0 0 0 33 74 664 57 33
1 10//	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED BSMT WALL ABOVE GR EXPOSED LGG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT LOSS SUBTOTAL HT LOSS SUBTOTAL HT COSS SUBTOTAL HT COSS AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS DUCT GAIN HEAT GAIN PEOPLE HEAT GAIN APPLIANCES/LIGHTS TOTAL HT LOSS BTU/H	20.4 20.4 20.4 20.4 20.4 20.4 20.4 20.4	AIN 5.1 60.7 64.1 60.7 99.9 3.7 0.5 0.6 1.2			3789			1118	0 0 0 78 0 0 703 0 0 65 0	71 11 781 LOSS 0 0 0 1587 0 0 2712 0 0 0 4490 0.34	0 0 0 3176 0 0 3666 0 0 777 0	0 38 0 0 0 325 0 0 0	33 11 363 LOSS 0 0 0 773 0 0 0 1254 0 0 0 0 0 2027	GAIN 0 0 0 914 0 0 0 169 0 0 0 1084 54 0 0 593	27 0 0 0 0 249 0 0 0	OFF 23 12 276 LOSS 0 549 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 1099 0 0 0 1330 0 0 12229 61 0 0	0 7 0 0 0 77 0 0 0	PWD 7 112 844 LOSS 0 0 1442 0 0 0 297 0 0 0 0 440 0 0.34 148 0	GAIN 0 0 168 0 0 40 0 0 0	0 0 0 0 0 40 236 0 0 0	FOY 23 12 276 LOSS 0 0 0 0 1082 910 0 0 1992 0.34 671 0	GAIN 0 0 0 0 146 123 0 0 0 0	L L 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	AUN 25 13 325 OSS 0 0 0 0 0 0 0 541 1177 0 0 88 0 0 0 8066 O.34 6608 0	GAIN 0 0 0 0 0 73 159 0 0 36 0	These plans have be corrections as note to made without writ Standards Branch. Zoning By-Law 2C Ontario Building approved documentimes. The building posted on site at all Discipline Building Code Building Code Sewage System	seen reviewd. No other approach of all work of the approach of	wed for us her change with must consist amende so amende so amende the kept on it must be	nbur N#16487 Isse with ges man ne Buil omply ed, and ded. T n site a be clo	th the ay be alding with do the Fhese at all learly	0 10 0 0 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0	177 99 105 LOSS 100 00 00 00 54 00 00 00 625 917 0 0.7 688	66 SS GAIN 2 76 0 4 241 0 0 1 73 0 0 55 5 275 0 0 0 0 33 74 664 5 77 33

TOTAL HEAT GAIN BTU/H:

29799

TONS: 2.48

LOSS DUE TO VENTILATION LOAD BTU/H: 1747

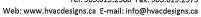
STRUCTURAL HEAT LOSS: 47696

TOTAL COMBINED HEAT LOSS BTU/H: 49443

Mohad Office. INDIVIDUAL BCIN: 19669 MICHAEL O'ROURKE



SITE NAME: TRINAR HALL HOMES BUILDER: GREENPARK HOMES							LOT 31 GLENWA				DATE:	Dec-20			GFA:	2869	LO#	88662						
TOTAL HEAT LOSS AIR FLOW RATE CFM	23.71		TOTAL H IR FLOW F	LING CFM EAT GAIN RATE CFM	29,563 38.26		é	furr a/c coil available	pressure nace filter pressure pressure s/a & r/a	0.6 0.05 0.2 0.35						(GMEC960 FAN		GOODM/ 60	AN		AFUE = (BTU/H) = (BTU/H) =	60,000	
RUN COUNT S/A	4th 0	3rd 0	2nd 11	1st 9	Bas 4		ıla	enum pre	ssure s/a	0.18		r/a	pressure	0.17				EDLOW MEDIUM			DES	IGN CFM =	1131 6 " E.S.P	_
R/A	0	0	4	3	1		max	s/a dif pi	ess. loss	0.02		grille pre	ess. Loss	0.02				M HIGH				· · · · · ·		
All S/A diffusers 4"x10" unle All S/A runs 5"Ø unless note				ut.			min adj	usted pre	ssure s/a	0.16	adj	usted pre	ssure r/a	0.15				HIGH	1131	Т	EMPERAT	URE RISE	47	°F
RUN#	1	2	yout.	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
ROOM NAME RM LOSS MBH. CFM PER RUN HEAT	MBR 1.67 40	ENS 1.53 36		BED-2 1.94 46	BED-3 1.54 36	BED-4 1.13 27	1.08 26	ENS-3 0.58 14	BED-2 1.94 46	MBR 1.67 40	ENS-4 0.62 15	BED-3 1.54 36	KT/FM 2.00 47	2.00 47	KT/FM 2.00 47	LV/DN 2.71 64	OFF 1.01 24	PWD 0.59 14	FOY 2.66 63	LAUN 2.41 57	BAS 4.02 95	BAS 4.02 95	BAS 4.02 95	BAS 4.02 95
RM GAIN MBH. CFM PER RUN COOLING ADJUSTED PRESSURE ACTUAL DUCT LGH.	1.89 72 0.17 37	1.12 43 0.17 19		2.05 79 0.17 60	1.91 73 0.17 55	1.78 68 0.17 52	0.42 16 0.17 55	0.32 12 0.17 41	2.05 79 0.17 55	1.89 72 0.17 44	0.33 12 0.17 17	1.91 73 0.17 57	1.90 73 0.17 19	1.90 73 0.17	1.90 73 0.17	2.25 86 0.16	1.22 47 0.17	0.28 11 0.17	0.37 14 0.17	1.14 43 0.17	0.42 16 0.16	0.42 16 0.16	0.42 16 0.16	0.42 16 0.16
EQUIVALENT LENGTH TOTAL EFFECTIVE LENGTH ADJUSTED PRESSURE	190 227 0.08	210 229 0.08		120 180 0.1	150 205 0.08	140 192 0.09	120 175 0.1	190 231 0.07	120 175 0.1	190 234 0.07	200 217 0.08	190 247 0.07	140 159 0.11	38 120 158 0.11	44 110 154 0.11	19 110 129 0.13	39 130 169 0.1	30 180 210 0.08	47 140 187 0.09	37 160 197 0.09	14 150 164 0.1	42 110 152 0.11	8 140 148 0.11	40 150 190 0.09
ROUND DUCT SIZE HEATING VELOCITY (ft/min) COOLING VELOCITY (ft/min) OUTLET GRILL SIZE	6 204 367 4X10	5 264 316 3X10		6 235 403 4X10	6 184 372 4X10	6 138 347 4X10	4 298 184 3X10	4 161 138 3X10	6 235 403 4X10	6 204 367 4X10	4 172 138 3X10	6 184 372 4X10	5 345 536 3X10	5 345 536 3X10	5 345 536 3X10	6 326 438 4X10	4 275 539 3X10	4 161 126 3X10	5 463 103 3X10	5 419 316 3X10	6 484 82 4X10	6 484 82 4X10	6 484 82 4X10	6 484 82 4X10
TRUNK	Α	С		С	В	С	С	B	С	A	С	В	Α	A	Α	С	В	В	В	С	^	Λ	^	ь
RUN # ROOM NAME RM LOSS MBH. CFM PER RUN HEAT	25 OFF 1.01 24						****			V. 16-76-10-10-10-10-10-10-10-10-10-10-10-10-10-							***************************************				Ott tern.	- 1		Illimbur
RM GAIN MBH. CFM PER RUN COOLING ADJUSTED PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH TOTAL EFFECTIVE LENGTH ADJUSTED PRESSURE	1.22 47 0.17 43 130 173 0.1																				correcti made v Standar Zoning Ontario approve times.	ons as noted without writeds Branch. By-Law 20 Building and document	d. No other ten approve All work 18-043, as Code, as ts must be ng permit	ed for use with or changes may al of the Build must comply v amended, and amehded. Th kept on site at must be cle
ROUND DUCT SIZE HEATING VELOCITY (ft/min)	4 275																				Discipl	0.1	eviewer I	
COOLING VELOCITY (ft/min)	539																					ng Code H	. Authier 4	3236 2021-02
OUTLET GRILL SIZE TRUNK	3X10 B																				Zoning	-		
																	12							
SUPPLY AIR TRUNK SIZE	TRUNK	STATIC	ROUND	RECT			VELOCITY			TRUNK	STATIC	ROUND	RECT			VELOCITY	RETURN A	AIR TRUNK TRUNK	K SIZE STATIC	ROUND	RECT			VELOCITY
	CFM	PRESS.	DUCT	DUCT			(ft/min)			CFM	PRESS.	DUCT	DUCT			(ft/min)		CFM	PRESS.	DUCT	DUCT			(ft/min)
TRUNK A TRUNK B	411 306	0.07 0.07	10.4 9.3	12 10	X	8 8	617 551		TRUNK G	0	0.00	0	0	x	8	0	TRUNK O	0	0.05	0	0	X	8	0
TRUNK C	718	0.07	9.3 12.8	20	X X	8	551 646		TRUNK H TRUNK I	0	0.00 0.00	0 0	0	X X	8 8	0	TRUNK P	0	0.05 0.05	0 0	0	X X	8 8	0
TRUNK D	0	0.00	0	0	х	8	0		TRUNK J	0	0.00	0	Ō	x	8	ŏ	TRUNK R	ō	0.05	Ö	ő	x	8	ŏ
TRUNK E TRUNK F	0	0.00 0.00	0	0	X X	8 8	0		TRUNK K TRUNK L	0	0.00	0	0	X X	8 8	0	TRUNK S TRUNK T	0	0.05 0.05	0	0	x	8	0
L. HONK F		0.00	<u> </u>	<u>J</u>	^		<u>_</u>		TROINI L	<u> </u>	0.00	<u> </u>		X	0	U	TRUNK U	0	0.05	0	0	X X	8 8	0
RETURN AIR #	1	2	3	1	5	6	7									BR	TRUNK V	0	0.05	0	0	х	8	0
TOTAL PILL	Ó	0	0	0	0	Ö	ó	0	0	0	0	0	0	0	0	ВK	TRUNK V	315 1131	0.05 0.05	10.2 16.5	12 32	X X	8 8	473 636
AIR VOLUME	130	85	115	75	185	275	85	Ö	Ö	Ö	Ö	ō	0	Ö	0	181	TRUNK Y	635	0.05	13.3	20	x	8	572
PLENUM PRESSURE	0.15	0.15 57	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	TRUNK Z	360	0.05	10.8	14	Х	8	463
EQUIVALENT LENGTH	38 175	57 185	63 265	61 225	28 150	38 190	41 225	0	0	1 0	1 0	1 0	1 0	1 0	1 0	14 175	DROP	1131	0.05	16.5	24	x	10	679
TOTAL EFFECTIVE LH	213	242	328	286	178	228	266	1	1	1	1	1	1	1	1	189								
ADJUSTED PRESSURE	0.07	0.06	0.05	0.05	0.08	0.06	0.06	14.80	14.80	14.80	14.80	14.80	14.80	14.80	14.80	0.08								
ROUND DUCT SIZE INLET GRILL SIZE	6.8 8	6 8	7 8	6 8	7.5 8	9.3 8	6 8	0	0	0	0	0	0	0	0	7.4 8								
THE STATE OF THE S	X	X	X	X	X	x	X	X	X	X	X	X	X	X	X	X								
INLET GRILL SIZE	14	14	14	14	14	30	14	0	0	0	0	0	0	0	0	14								İ





TYPE: SITE NAME: GLENWAY 3A

TRINAR HALL HOMES

LO# 88662 LOT 31

RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

COMBUSTION APPLIANCES	9.32.3.1(1)	SUPPLEMENTAL	VENTILATION CAPACITY			9.32.	.3.5.	
a) Direct vent (sealed combustion) only		Total Ventilation Ca	pacity	20	1.4	cfm		
b) Positive venting induced draft (except fireplaces)		Less Principal Vent	il. Capacity	79	9.5	cfm		
c) Natural draft, B-vent or induced draft gas fireplace		Required Suppleme	ental Capacity	12	1.9	cfm		
d) Solid Fuel (including fireplaces)								
e) No Combustion Appliances		PRINCIPAL EXHA	UST FAN CAPACITY					
c)		Model:	VANEE 65H	Loc	ation:	BSMT		
HEATING SYSTEM		79.5	cfm3.0	sones	V	HVI Approv	ved	
Forced Air Non Forced Air			UST HEAT LOSS CALCULA					
		CFM 79.5 CFM	ΔT °F X 81 F		TOR 08 x	% LOSS 0.25		
Electric Space Heat		SUPPLEMENTAL	FANS	PANA	SONIC			
		Location	Model		m HVI	Sones		
HOUSE TYPE	9.32.1(2)	ENS BATH	FV-05-11VK1 FV-05-11VK1		50 🗸	0.3		
✓ I Type a) or b) appliance only, no solid fuel		ENS-4	FV-05-11VK1		50 🗸	0.3		
		PWD	FV-05-11VK1		i0 🗸	0.3		
II Type I except with solid fuel (including fireplaces)								
		HEAT RECOVERY				9.32.3	.11.	
III Any Type c) appliance		Model: 155	VANEE 65H cfm high			cfm low		
IV Type I, or II with electric space heat		155				CITTIOW		
		75	% Sensible Efficience		✓	HVI Approv	ved	
Other: Type I, II or IV no forced air		L	@ 32 deg F (0 deg (<i>)</i>)				
SYSTEM DESIGN OPTIONS	O.N.H.W.P.	LOCATION OF INS	TALLATION					
STSTEM DESIGN OPTIONS	U.N.H.VV.P.	Lot:		Conce	ssion			
1 Exhaust only/Forced Air System								
2 HRV with Ducting/Forced Air System		Township		Plan:				
3 HRV Simplified/connected to forced air system		Address	w.w					
		Roll#		Buildin	n Parmit #		ł	
4 HRV with Ducting/non forced air system		BUILDER:	GREENPARK HOM	ES	E E	East Gw		•
Part 6 Design		Name:			Our town, Our fature	Building Standards	Branch BC	IN #16487
		rvaine.			These plans ha			
TOTAL VENTILATION CAPACITY	9.32.3.3(1)	Address:			made without	written approv	val of t	he Building
Basement + Master Bedroom 2 @ 21.2 cfm 42.4	cfm	City:			Standards Bran Zoning By-Lav Ontario Build	v 2018-043, a	s amen	ded, and the
Other Bedrooms 3 @ 10.6 cfm 31.8	cfm	Telephone #:		Fax#:	approved docu	ments must be	e kept o	on site at al
Kitchen & Bathrooms 6 @ 10.6 cfm 63.6	cfm	INSTALLING CON	FRACTOR		posted on site a			
	Cilli	INSTALLING CON	IRACIOR		Discipline Building Code		BCIN 43236	Date 2021-02-03
Other Rooms6@ 10.6 cfm63.6	cfm	Name:			Sewage System Zoning			
Table 9.32.3.A. TOTAL <u>201.4</u>	cfm	Address:	**************************************					
		City:						
PRINCIPAL VENTILATION CAPACITY REQUIRED	9.32.3.4.(1)							
1 Bedroom 31.8	cfm	Telephone #:		Fax #:				
		DESIGNER CERTII	FICATION					
2 Bedroom 47.7	cfm		this ventilation system has be	een designed				
3 Bedroom 63.6	cfm	in accordance with the Name:	the Ontario Building Code. HVAC Designs Ltd.			-		
4 Bedroom 79.5	cfm	Signature:		Yahad O'Ko	Jahre.			
5 Bedroom 95.4	cfm	HRAI#		00182			_	
TOTAL 79.5 cfm		Date:		Decembe	er-20			
I REVIEW AND TAKE RESPONIBILITY FOR THE DESIGN WORK AND AM QUAL			"OTHER DESIGNER" UNDER DIVIS			DDE.		
INDIVIDUAL BCIN: 19669 Maked Officiale. MICHAEL O'RO	URKE							



			CSA F28	30-12 Residential Heat	Loss and Heat Gain (Calculations							
			Form	ula Sheet (For Air Leak	age / Ventiliation Ca	lculation)							
LO#: 8	88662	Model: GLENWAY 3A		Builder:	GREENPARK HOMES				Date:	14/12/2020			
		Volume Calculation	1		Air Change & Delta T Data								
łouse Volume]	. Г	WINTER NA	TURAL AIR CHANG	GE RATE	0.234	1			
Level	Floor Area (ft²)	Floor Height (ft)	Volume (ft³)				TURAL AIR CHAN		0.065				
Bsmt	1330	9	11970		_				1	1			
First	1330	11	14630		_								
Second Third	1539 0	9	13851 0		-		,	emperature Diff		A T 95			
Fourth	0	9	0		1	Winter DTDh	Tin °C	Tout °C -23	ΔT °C 45	ΔT °F 81			
	<u> </u>	Total:	40,451.0 ft ³		<u>-</u>	Summer DTDc	24	30	6	11			
		Total:	1145.4 m³		_				I				
			 										
	5.2.3	.1 Heat Loss due to Air	Leakage			6.2.6 9	Sensible Gain due	to Air Leakage		·			
	$HL_{airb} =$	$LR_{airh} \times \frac{V_b}{3.6} \times D$	$TD_h \times 1.2$		НС	$G_{salb} = LR_{airc} \times$	$\frac{V_b}{3.6} \times DTD_c$	× 1.2					
0.234	x <u>318.18</u>	x <u>45 °C</u>	x <u>1.2</u>	= 4037 W	= 0.065	x <u>318.18</u>	x <u>6°C</u>	x1.2	. =	152 W			
				= 13774 Btu/h					=	518 Btu/h			
	5.2.3.2 Hea	nt Loss due to Mechani	ical Ventilation			6.2.7 Ser	nsible heat Gain c	lue to Ventilatio	n				
	$HL_{vairb} = 1$	$PVC \times DTD_h \times 1$	$.08\times(1-E)$		HL_{vc}	$_{nirb} = PVC \times DT$	$TD_h \times 1.08 \times$	(1 - E)					
80 CFM	x <u>81°F</u>	x <u>1.08</u>	x <u>0.25</u>	= 1747 Btu/h	80 CFM	x <u>11 °F</u>	x <u>1.08</u>	x <u>0.25</u>	. =	236 Btu/h			
			5.2.3.3 Calcula	tion of Air Change Heat Lo	ss for Each Room (Floor	Multiplier Section)			***************************************				

$$HL_{airr} = Level\ Factor \times HL_{airbv} \times \{(HL_{agcr} + HL_{bgcr}) \div (HL_{agclevel} + HL_{bgclevel})\}$$

Level	Level Factor (LF)	HLairve Air Leakage + Ventilation Heat Loss (Btu/h)	Level Conductive Heat Loss: (HL _{clevel})	Air Leakage Heat Loss Multiplier (LF x HLairbv / HLlevel)
1	0.5	(234)	9,174	0.751
2	0.3		12,265	0.337
3	0.2	13,774	12,033	0.229
4	0	1	0	0.000
5	0		0	0.000

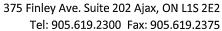
^{*}HLairbv = Air leakage heat loss + ventilation heat loss



These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amehded. These approved documents must be kept on site at all times. The building permit must be clearly posted on site at all times.

Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			

^{*}For a balanced or supply only ventilation system HLairve = 0



Web: www.hvacdesigns.ca E-mail: info@hvacdesigns.ca



HEAT LOSS AND GAIN SUMMARY SHEET

2012 OBC - COMPLIANCE PACKAGE			
		Compliance	Package
Component		ENERG	YSTAR
		Nominal	Min. Eff.
Ceiling with Attic Space Minimum RSI (R)-Value		60	59.20
Ceiling Without Attic Space Minimum RSI (R)-Value		31	27.70
Exposed Floor Minimum RSI (R)-Value		31	29.80
Walls Above Grade Minimum RSI (R)-Value		R22+R5	21.10
Basement Walls Minimum RSI (R)-Value		20	21.12
Below Grade Slab Entire surface > 600 mm below grade N	ମinimum RSI (R)-Value	-	-
Edge of Below Grade Slab ≤ 600 mm Below Grade Minimเ	ım RSI (R)-Value	10	10
Heated Slab or Slab ≤ 600 mm below grade Minimum RSI	(R)-Value	10	11.13
Windows and Sliding Glass Doors Maximum U-Value	Town of	ZONE 2	-
Skylights Maximum U-Value	East Gwillimbury Building Standards Branch BCIN #16487	ZONE 2	-
Space Heating Equipment Minimum AFUE	Outcome, Our faint	0.96	-
HRV Minimum Efficiency	These plans have been reviewed for use with the	75%	-
Domestic Hot Water Heater Minimum EF	corrections as noted. No other changes may be made without written approval of the Building	0.9	-

INDIVIDUAL BCIN: 19669 MICHAEL O'ROURKE corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amended. These approved documents must be kept on site at all times. The building permit must be clearly posted on site at all times.

Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			





Residential Foundation Thermal Load Calculator

Supplemental tool for CAN/CSA-F280

We	eather Stat	ion Description				
Province:	Ontario					
Region:	Bradford					
	Site De	escription				
Soil Conductivity:	Normal co	onductivity: dry sand, loam, clay				
Water Table:	Normal (7	7-10 m, 23-33 ft)				
	Foundation	n Dimensions				
Floor Length (m):	16.5					
Floor Width (m):	10.4		· · · · · · · · · · · · · · · · · · ·			
Exposed Perimeter (m):	0.0					
Wall Height (m):	2.7					
Depth Below Grade (m):	1.83	Insulation Configuration				
Window Area (m²):	1.4	THE SECTION OF THE PROPERTY OF THE SECTION OF THE S				
Door Area (m²):	1.9			ast Gv Building Standar		-
	Radia	ant Slab	These plans hav	oted. No o	ther char	nges may be
Heated Fraction of the Slab:	0		made without w Standards Brand Zoning By-Law Ontario Buildin approved docum times. The buildings	h. All wo 2018-043, ng Code, nents must	rk must o as amen as amer be kept o	comply with ded, and the ided. These on site at al
Fluid Temperature (°C):	33		posted on site at Discipline Building Code	all times.	BCIN	Date
	Design	Months	Sewage System Zoning	H. Authier	43236	2021-02-03
Heating Month	1					
	Foundat	tion Loads				
Heating Load (Watts):		1844				

TYPE: GLENWAY 3A

LO# 88662

LOT 31



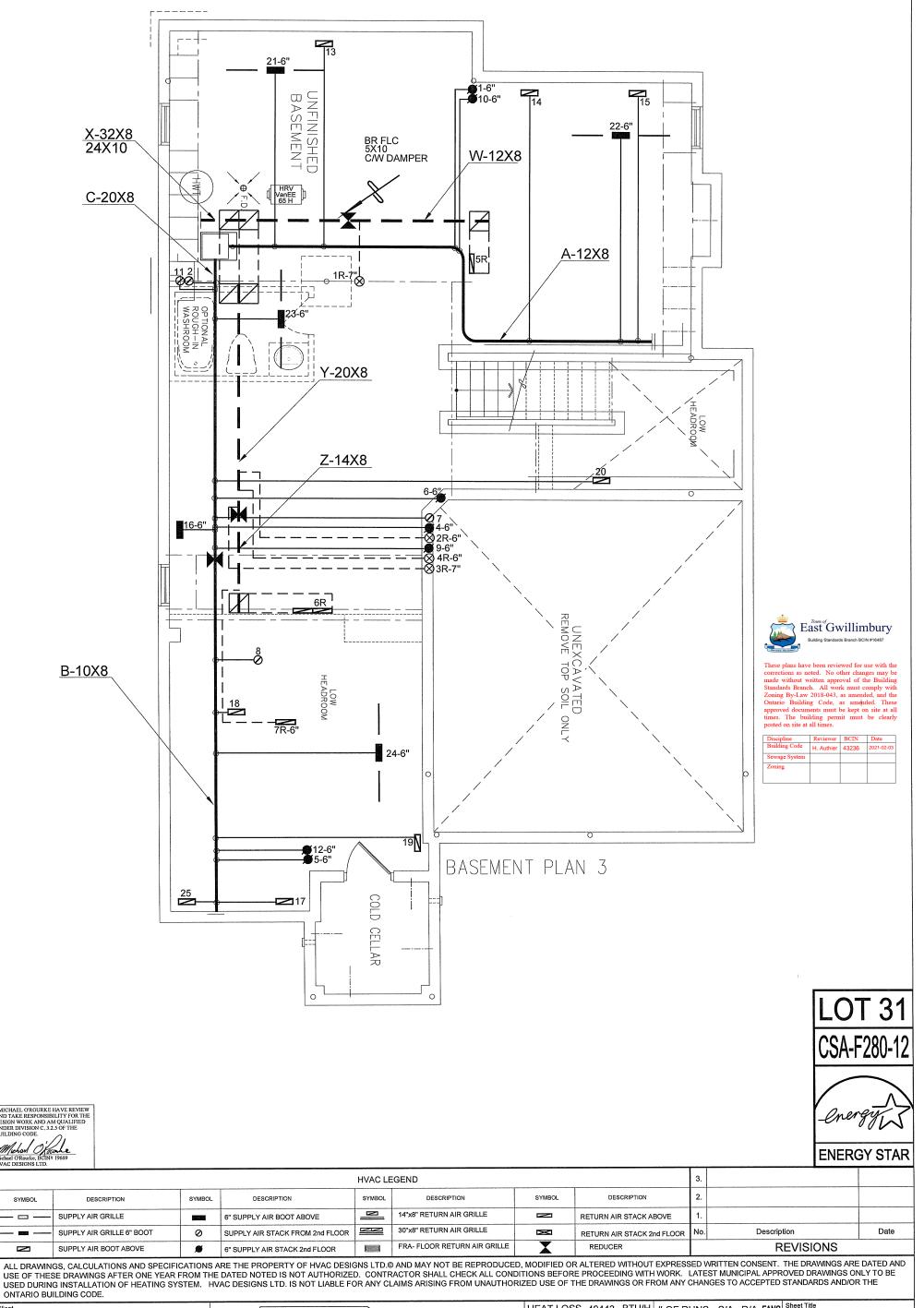
Air Infiltration Residential Load Calculator

Supplemental tool for CAN/CSA-F280

Weath	er Station Description	
Province:	Ontario	
Region:	Bradford	
Weather Station Location:	Open flat terrain, grass	
Anemometer height (m):	10	
	Local Shielding	
Building Site:	Suburban, forest	
Walls:	Heavy	East Gwillimbury
Flue:	Heavy	Building Standards Branch BCIN #16487
Highest Ceiling Height (m):		have been reviewed for use with t
Buil	ding Configuration made without Standards E	as noted. No other changes may ut written approval of the Buildi tranch. All work must comply w
Туре:	Detached Ontario Bu	Law 2018-043, as amended, and to illding Code, as amelphded. The ocuments must be kept on site at a
Number of Stories:		building permit must be clear te at all times.
Foundation:	Full Discipline Building Co	Reviewer BCIN Date
House Volume (m³):	1145.4 Sewage Sys	
	eakage/Ventilation	
Air Tightness Type:	Energy Star Detached (2.5 ACH)	
Custom BDT Data:	ELA @ 10 Pa. 10	69.3 cm ²
	2.50 ACH	@ 50 Pa
Mechanical Ventilation (L/s):	Total Supply Total Exha	
(, ,	37.5 37.5	
	Flue Size	
Flue #:	#1 #2 #3 #4	
Diameter (mm):	0 0 0 0	
Natuı	al Infiltration Rates	
Heating Air Leakage Rate (A	CH/H): 0.234	
Cooling Air Leakage Rate (A	CH/H): 0.065	

TYPE: GLENWAY 3A **LO#** 88662

LOT 31



ONTARIO BUILDING CODE.

GREENPARK HOMES

TRINAR HALL HOMES EAST GWILLIMBURY, ONT.

LOT 31 GLENWAY 3A

2869 sqft

DESIGNS LTD.

375 Finley Ave. Suite 202 - Ajax, Ontario L1S 2E2 Tel. 905.619.2300 - 905.420.5300 Fax 905.619.2375 Email: info@hvacdesigns.ca

Web: www.hvacdesigns.ca Specializing in Residential Mechanical Design Services

Installation to comply with the latest Ontario Building Code. All supply branch outlets shall be equipped with a manual balancing damper. Ductwork which passes through the garage or unheated spaces shall be adequately insulated and be gas-proofed.

1	OSS 49443	BTU/H	# OF RUNS	S/A	R/A	FANS	She		
	UNIT DATA		3RD FLOOR						
MAKE G	OODMAN		2ND FLOOR	11	4	4			
MODEL GME	C960603BN	1ST FLOOR	9	3	2				
INPUT	60	мвти/н	BASEMENT	4	1	0	Date		
OUTPUT	57.6	MBTU/H	UNLESS NOTED OTHERWISE						
COOLING	0.5	TONS							

cfm @ 0.6" w.c

UNLESS NOTED OTHERWISE ON LAYOUT. UNDERCUT

DOORS 1" min. FOR R/A

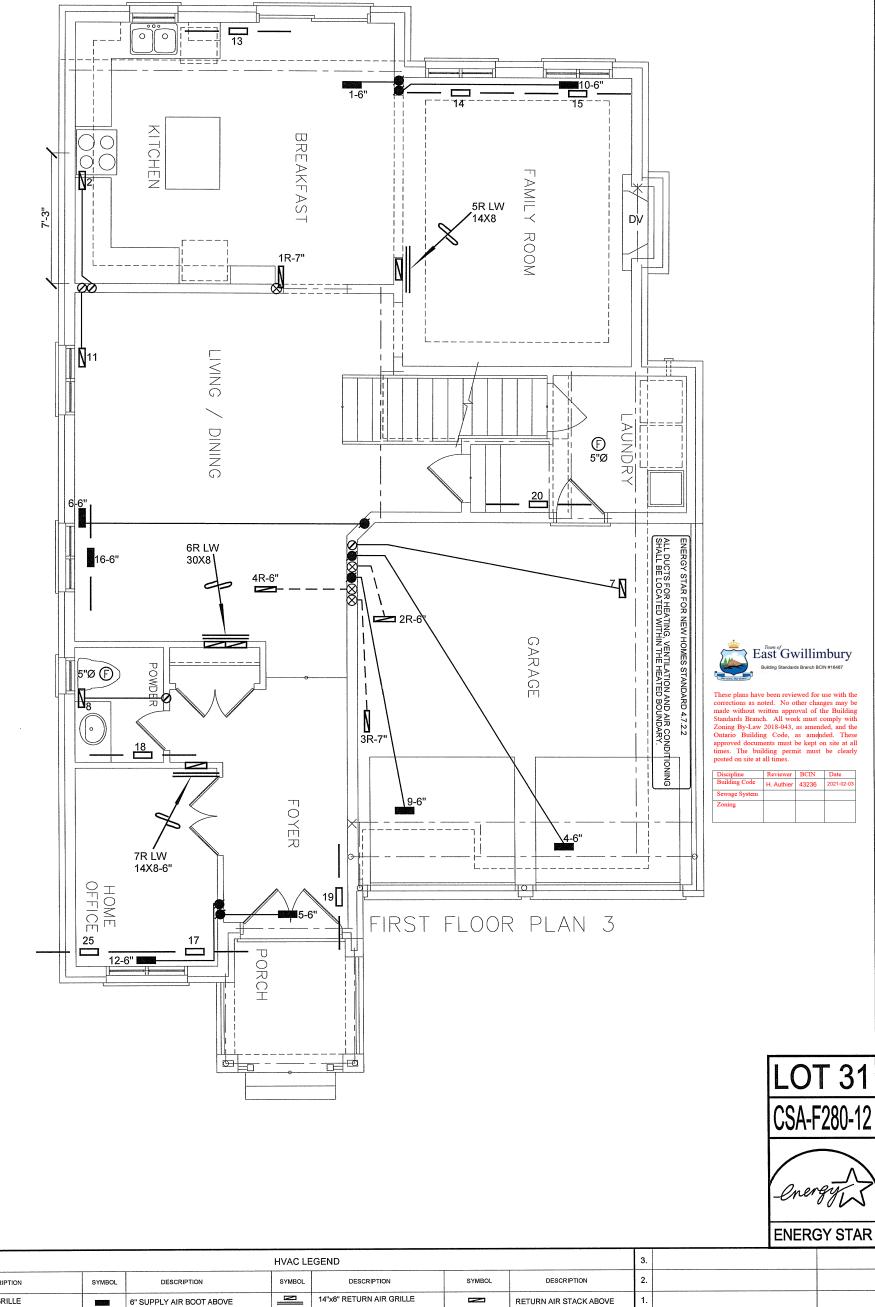
2.5

1131

FAN SPEED

BASEMENT **HEATING** LAYOUT DEC/2020 3/16" = 1'-0" BCIN# 19669

LO# 88662



DESCRIPTION SUPPLY AIR GRILLE - 🗀 30"x8" RETURN AIR GRILLE SUPPLY AIR STACK FROM 2nd FLOOR No. SUPPLY AIR GRILLE 6" BOOT 0 20 \propto RETURN AIR STACK 2nd FLOOR Description Date FRA- FLOOR RETURN AIR GRILLE REDUCER **REVISIONS** SUPPLY AIR BOOT ABOVE 6" SUPPLY AIR STACK 2nd FLOOR

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WHAT ARE THE PROPERTY OF HVAC COPE. ONTARIO BUILDING CODE

GREENPARK HOMES

TRINAR HALL HOMES EAST GWILLIMBURY, ONT.

LOT 31 **GLENWAY 3A**

2869 sqft

DESIGNS LTD.

375 Finley Ave. Suite 202 - Ajax, Ontario L1S 2E2 Tel. 905.619.2300 - 905.420.5300 Fax 905.619.2375 Email: info@hvacdesigns.ca Web: www.hvacdesigns.ca

Specializing in Residential Mechanical Design Services Installation to comply with the latest Ontario Building Code. All supply

branch outlets shall be equipped with a manual balancing damper. Ductwork which passes through the garage or unheated spaces shall be adequately insulated and be gas-proofed.

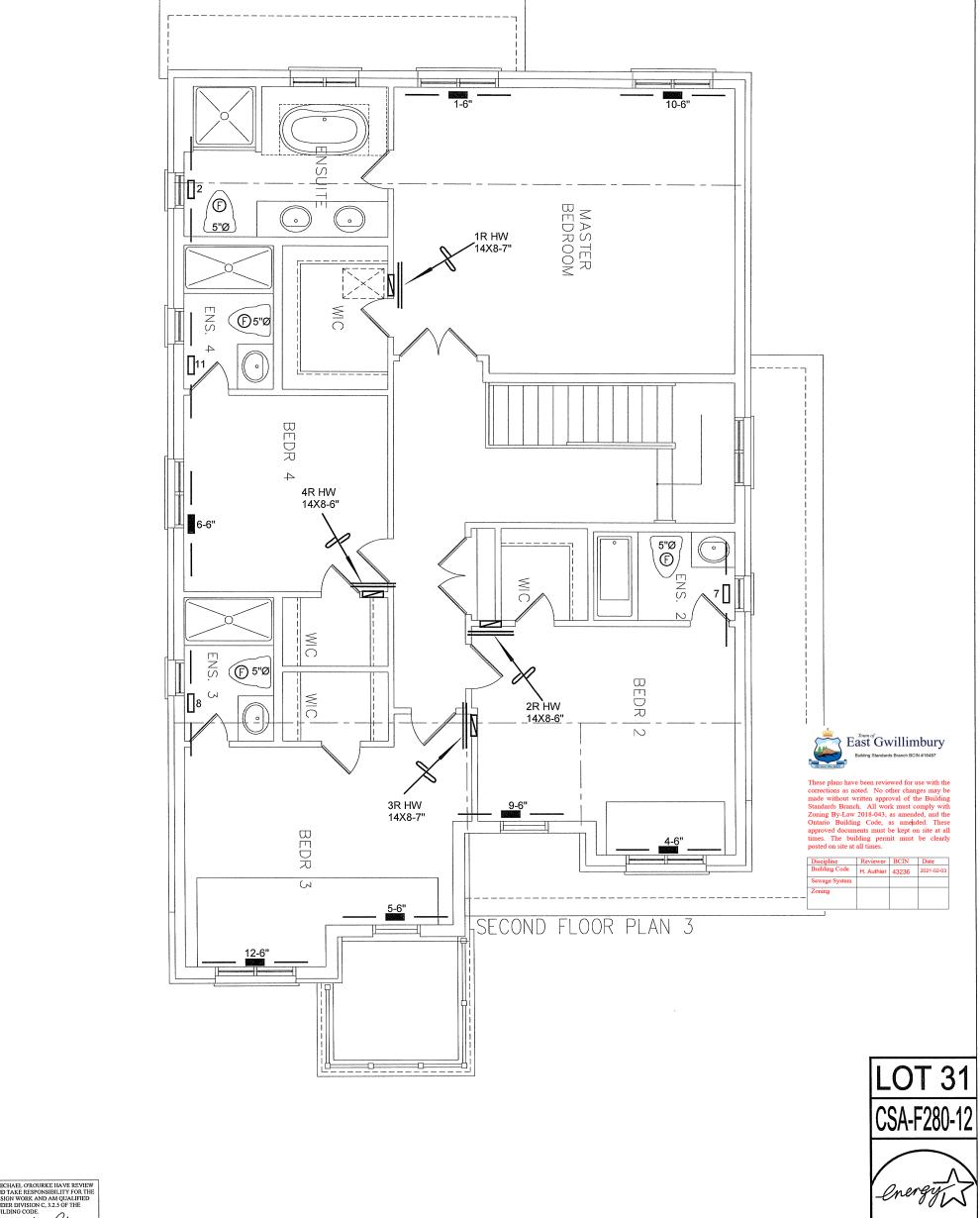
FIRST FLOOR **HEATING**

LAYOUT DEC/2020

3/16" = 1'-0" BCIN# 19669

88662

LO#



HVAC LEGEND								3.		
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	2.		
	SUPPLY AIR GRILLE	1534	6" SUPPLY AIR BOOT ABOVE	_	14"x8" RETURN AIR GRILLE		RETURN AIR STACK ABOVE	1.		
	SUPPLY AIR GRILLE 6" BOOT	0	SUPPLY AIR STACK FROM 2nd FLOOR		30"x8" RETURN AIR GRILLE	⊠	RETURN AIR STACK 2nd FLOOR	No.	Description	Date
	SUPPLY AIR BOOT ABOVE	ø	6" SUPPLY AIR STACK 2nd FLOOR		FRA- FLOOR RETURN AIR GRILLE	X	REDUCER		REVISIONS	

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GREENPARK HOMES

Project Name

TRINAR HALL HOMES EAST GWILLIMBURY, ONT.

LOT 31 **GLENWAY 3A**

2869 sqft

A DESIGNS LTD.

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Specializing in Residential Mechanical Design Services

Installation to comply with the latest Ontario Building Code. All supply branch outlets shall be equipped with a manual balancing damper.

Ductwork which passes through the garage or unheated spaces shall be adequately insulated and be gas-proofed.

SECOND FLOOR **HEATING**

LAYOUT DEC/2020 3/16" = 1'-0"

BCIN# 19669

LO# 88662