

SITE NAME: LAMBERT'S LANE PH.2

BUILDER: GREENPARK HOMES

TYPE: URBAN 2

GFA: 2100

DATE: Mar-19

LO# 81393

WINTER NATURAL AIR CHANGE RATE 0.356

SUMMER NATURAL AIR CHANGE RATE 0.122

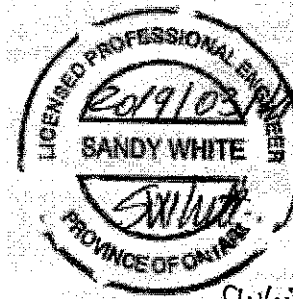
HEAT LOSS AT °F. 74

HEAT GAIN AT °F. 14

CSA-F280-12

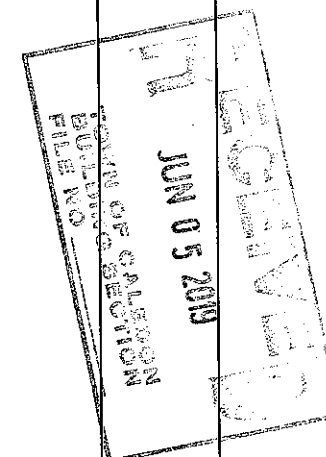
ENERGYSTAR

ROOM USE	EXP. WALL	CLG. HT.	MBR	ENS	WIC	BED-2	BED-3	BATH	MUD
FACTORS									
GRS.WALL AREA	LOSS	GAIN	320	0	63	117	98	0	110
GLAZING	LOSS	GAIN	LOSS	GAIN	LOSS	GAIN	LOSS	GAIN	LOSS
NORTH	18.6	15.9	0	0	0	0	0	0	0
EAST	18.6	41.5	31	576	1286	0	0	0	0
SOUTH	18.6	24.8	0	0	0	0	0	0	0
WEST	18.6	41.5	0	0	0	0	0	0	0
SKYLT.	31.2	101.2	0	0	0	0	0	0	0
DOORS	24.7	4.7	0	0	0	0	0	0	0
NET EXPOSED WALL	3.5	0.7	289	1016	192	0	0	0	0
NET EXPOSED BSMT WALL ABOVE OR	3.5	0.7	0	0	0	0	0	0	0
EXPOSED CLG	1.3	0.6	198	248	120	82	103	60	41
NO ATTIC EXPOSED CLG	2.7	1.3	33	88	43	0	0	0	0
EXPOSED FLOOR	2.5	0.5	19	47	9	0	0	0	0
BASEMENT/CRAWL HEAT LOSS			0	0	0	0	0	0	0
SLAB ON GRADE HEAT LOSS			0	0	0	0	0	0	0
SUBTOTAL HT LOSS			1975		103	518	871	804	142
SUB TOTAL HT GAIN			1649		60	493	570	657	69
LEVEL FACTOR / MULTIPLIER	0.10	0.26	0.10	0.26	0.10	0.26	0.10	0.26	0.10
AIR CHANGE HEAT LOSS			518		27	138	228	211	37
AIR CHANGE HEAT GAIN			178		5	53	61	60	7
DUCT LOSS			249		0	65	0	0	0
DUCT GAIN			297		0	55	0	0	0
HEAT GAIN PEOPLE	240		2		480	0	0	1	240
HEAT GAIN APPLIANCES/LIGHTS			659		0	0	659	659	0
TOTAL HT LOSS BTU/H			2742		130	719	1100	1015	179
TOTAL HT GAIN x 1.3 BTU/H			4241		72	780	1990	1970	99



SWhite

ROOM USE	EXP. WALL	CLG. HT.	KIT	L/D/F	LAUN	WIR	FOY	DEN	BAS
FACTORS									
GRS.WALL AREA	LOSS	GAIN	100	600	98	80	243	342	570
GLAZING	LOSS	GAIN	LOSS	GAIN	LOSS	GAIN	LOSS	GAIN	LOSS
NORTH	18.6	15.9	0	0	0	0	0	0	0
EAST	18.6	41.5	26	464	1037	37	896	1534	0
SOUTH	18.6	24.8	0	0	0	24	445	596	6
WEST	18.6	41.5	0	0	0	0	0	0	0
SKYLT.	31.2	101.2	0	0	0	0	0	0	0
DOORS	24.7	4.7	0	0	0	0	0	0	0
NET EXPOSED WALL	3.5	0.7	76	264	60	415	1459	275	93
NET EXPOSED BSMT WALL ABOVE OR	3.5	0.7	0	0	0	0	0	0	0
EXPOSED CLG	1.3	0.6	0	0	0	0	0	0	0
NO ATTIC EXPOSED CLG	2.7	1.3	0	0	0	0	0	0	0
EXPOSED FLOOR	2.6	0.6	212	528	100	9	22	4	0
BASEMENT/CRAWL HEAT LOSS			0	0	0	0	0	0	0
SLAB ON GRADE HEAT LOSS			0	0	0	0	0	0	0
SUBTOTAL HT LOSS			1255		3205	438	387	1700	1473
SUB TOTAL HT GAIN			1186		2521	211	222	321	662
LEVEL FACTOR / MULTIPLIER	0.20	0.48	0.20	0.48	0.30	0.78	0.20	0.48	0.30
AIR CHANGE HEAT LOSS			599		1530	344	184	1334	1166
AIR CHANGE HEAT GAIN			128		272	23	24	35	71
DUCT LOSS			185		473	0	0	0	0
DUCT GAIN			197		346	0	0	0	0
HEAT GAIN PEOPLE	240		0		0	0	0	0	0
HEAT GAIN APPLIANCES/LIGHTS			659		659	659	659	659	659
TOTAL HT LOSS BTU/H			2040		6208	782	571	3034	2629
TOTAL HT GAIN x 1.3 BTU/H			2620		4935	1158	320	462	1809



TOTAL HEAT GAIN BTU/H: 32237

THIS STRUCTURE MUST BE
CONSTRUCTED TO MEET OR
EXCEED THE PROVISIONS OF
THE ONTARIO BUILDING CODE

LOSS DUE TO VENTILATION LOAD BTU/H: 1274

STRUCTURAL HEAT LOSS: 30982

TOTAL COMBINED HEAT LOSS BTU/H: 32256

I REVIEW AND TAKE RESPONSIBILITY FOR THE DESIGN WORK AND AM QUALIFIED IN THE APPROPRIATE CATEGORY AS AN "OTHER DESIGNER" UNDER DIVISION C, 3.2.5 OF THE BUILDING CODE.

Michael O'Rourke

INDIVIDUAL BCIN: 19669

MICHAEL O'ROURKE

SITE NAME: LAMBERT'S LANE PH.2

BUILDER: GREENPARK HOMES

TYPE: URBAN 2

AH-1

DATE: Apr-19

GFA: 2100

LD# 81393

UNIT OUTPUT @ 140 °F	40600	BTU/H	CFM / OUTLET =
OUTLETS for UNIT	28		28.571
BTU/H per OUTLET HEATING	1450		

Water Heater
Make & Model #
Input
Storage capacity
Efficiency

BOSCH	
T9800 SE 160	
160000	Btu/H
	US/gal.
99.0	%

REDZONE
DVS-800
P2-2 ZONE

OUTPUT 40600 BTUH @ 140 °F
CFM @ 0.8" E.S.P.

UNIT OUTPUT COOLING	24000	BTU/H
OUTLETS for UNIT	28	
BTU/H per OUTLET COOLING	857	

RUNS/ZONE: 14

DESIGN CFM = 800

A/C SIZE 2 TONS
A/C SIZE 24000 BTU/H

FLOOR	3	3	3	3	3	3	2	2	1	2	1	1	8	1								
ROOM NAME	MBR	ENS	WIC	BED-2	BED-3	BATH	KIT	L/D/F	LAUN	W/R	FOY	DEN	BAS	MUD								
RM LOSS MBH	2.74	0.13	0.72	1.10	1.02	0.00	0.18	0.00	0.00	0.00	0.00	2.04	5.21	0.78	0.57	3.03	2.63	9.39	1.44	0.00	0.00	0.00
# of RUNS red'd HEATING	1.9	0.1	0.5	0.8	0.7	0.0	0.1	0.0	0.0	0.0	0.0	1.0	3.6	0.5	0.4	2.0	1.8	6.5	1.0	0.0	0.0	0.0
RM GAIN MBH	4.24	0.07	0.78	1.99	1.97	0.00	0.10	0.00	0.00	0.00	0.00	2.82	4.94	1.16	0.32	0.46	1.81	1.62	0.22	0.00	0.00	0.00
# of RUNS red'd COOLING	4.9	0.1	0.9	2.3	2.3	0.0	0.1	0.0	0.0	0.0	0.0	3.3	5.8	1.4	0.4	0.5	2.1	1.9	0.3	0.0	0.0	0.0
# of OUTLETS INSTALLED	2.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	4.0	1.0	1.0	2.0	3.0	7.0	1.0							

Adjusted Total Runs	28
Actual Installed Flex	28

[illegible]

INSTALLATION OF COMBO HEATING SYSTEM TO COMPLY WITH UNIFIED CANADIAN GUIDELINE FOR INTERGRATED (COMBINATION) HEATING SYSTEMS LATEST ADDITION

**MAXIMUM TEMPERATURE of HOT WATER SYSTEM
SUPPLIED TO PLUMBING FIXTURES SHALL
NOT EXCEED 120 ° F or 49° C**

**EXHAUST & COMBUSTION
AIR INTAKES SHALL
COMPLY with ALL LOCAL
CODES & AUTHORITIES**

TOTAL COMBINED HEAT LOSS BTU/H	32256	+10% 35481
TOTAL HEAT GAIN BTU/H	22737	

RETURN AIR TRUNK SIZE				ACCU-MAX® FICK 20	
	TRUNK CFM	STATIC PRESS.	ROUND DUCT	RECT DUCT	
TRUNK O	0	0.05	0	0	x 8
TRUNK P	0	0.05	0	0	x 8
TRUNK Q	0	0.05	0	0	x 8
TRUNK R	0	0.05	0	0	x 8
TRUNK S	0	0.05	0	0	x 8
TRUNK T	0	0.05	0	0	x 8
TRUNK U	0	0.05	0	0	x 8
TRUNK V	0	0.05	0	0	x 8
TRUNK W	0	0.05	0	0	x 8
TRUNK X	800	0.05	14.5	24	x 8
TRUNK Y	0	0.05	0	0	x 8
TRUNK Z	0	0.05	0	0	x 8
DROP	800	0.05	14.5	24	x 8
				19	x 10
				16	x 12
				14	x 14
				12	x 16
				11	x 18
				21	x 9
				17	x 11

I REVIEW AND TAKE RESPONSIBILITY FOR THE DESIGN WORK AND AM QUALIFIED IN THE APPROPRIATE CATEGORY AS AN "OTHER DESIGNER" UNDER DIVISION C-3.2.5 OF THE BUILDING CODE

INDIVIDUAL BCIN: 19669
Michael O'Rourke

THIS STRUCTURE MUST BE
CONSTRUCTED TO MEET OR
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THE ONTARIO BUILDING CODE

RECEIVED
JUN 05 2019
TOWN OF GALETON
BUILDING SECTION
FILE NO. _____

TYPE: URBAN 2
SITE NAME: LAMBERT'S LANE PH.2

LO # 81392

RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY
COMBUSTION APPLIANCES 9.32.3.1(1)
a) ☒ Direct vent (sealed combustion) only
b) ☐ Positive venting induced draft (except fireplaces)
c) ☐ Natural draft, B-vent or induced draft gas fireplace
d) ☐ Solid Fuel (including fireplaces)
e) ☐ No Combustion Appliances

HEATING SYSTEM
☒ Forced Air ☐ Non Forced Air
☐ Electric Space Heat

HOUSE TYPE 9.32.1(2)
☒ I Type a) or b) appliance only, no solid fuel
☐ II Type I except with solid fuel (including fireplaces)
☐ III Any Type c) appliance
☐ IV Type I, or II with electric space heat
☐ Other: Type I, II or IV no forced air

SYSTEM DESIGN OPTIONS O.N.H.W.P.
☐ 1 Exhaust only/Forced Air System
☐ 2 HRV with Ducting/Forced Air System
☒ 3 HRV Simplified/connected to forced air system
☐ 4 HRV with Ducting/non forced air system
☐ Part 6 Design

TOTAL VENTILATION CAPACITY 9.32.3.3(1)

Basement + Master Bedroom	2	@ 21.2 cfm	42.4	cfm
Other Bedrooms	2	@ 10.6 cfm	21.2	cfm
Kitchen & Bathrooms	4	@ 10.6 cfm	42.4	cfm
Other Rooms	4	@ 10.6 cfm	42.4	cfm
Table 9.32.3.A	TOTAL		148.4	cfm

PRINCIPAL VENTILATION CAPACITY REQUIRED 9.32.3.4.(1)

1 Bedroom	31.8	cfm
2 Bedroom	47.7	cfm
3 Bedroom	63.6	cfm
4 Bedroom	79.5	cfm
5 Bedroom	95.4	cfm
TOTAL	63.6	cfm

SUPPLEMENTAL VENTILATION CAPACITY 9.32.3.5.

Total Ventilation Capacity	148.4	cfm
Less Principal Ventil. Capacity	63.6	cfm
Required Supplemental Capacity	84.8	cfm

PRINCIPAL EXHAUST FAN CAPACITY
Model: VANE 85H Location: BSMT
63.6 cfm 3.0 sones ☒ HVI Approved

PRINCIPAL EXHAUST HEAT LOSS CALCULATION

CFM	ΔT °F	FACTOR	% LOSS
63.6 CFM	74 F	1.08	0.23

SUPPLEMENTAL FANS PANASONIC

Location	Model	cfm	HVI	Sones
ENS	FV-05-11VK1	50	✓	0.3
BATH	FV-05-11VK1	50	✓	0.3
WIR	FV-05-11VK1	50	✓	0.3

HEAT RECOVERY VENTILATOR 9.32.3.11.
Model: VANE 85H
155 cfm high 64 cfm low
75 % Sensible Efficiency ☒ HVI Approved
@ 32 deg F (0 deg C)

LOCATION OF INSTALLATION
Lot: Concession
Township: Plan:
Address:
Roll # Building Permit #

BUILDER: GREENPARK HOMES
Name:
Address:
City:
Telephone #: Fax #:

INSTALLING CONTRACTOR
Name:
Address:
City:
Telephone #: Fax #:

DESIGNER CERTIFICATION
I hereby certify that this ventilation system has been designed in accordance with the Ontario Building Code.
Name: HVAC Designs Ltd.
Signature: *Michael O'Rourke*
HRAI # 001820
Date: April-19

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INDIVIDUAL BCIN: 19668 MICHAEL O'ROURKE

HEAT LOSS AND GAIN SUMMARY SHEET**MODEL:** URBAN 2**BUILDER:** GREENPARK HOMES**SFQT:** 2100**LO#:** 81393**SITE:** LAMBERT'S LANE PH.2**DESIGN ASSUMPTIONS**

HEATING	°F	COOLING	°F
OUTDOOR DESIGN TEMP.	-2	OUTDOOR DESIGN TEMP.	86
INDOOR DESIGN TEMP.	72	INDOOR DESIGN TEMP. (MAX 75°F)	72

BUILDING DATA

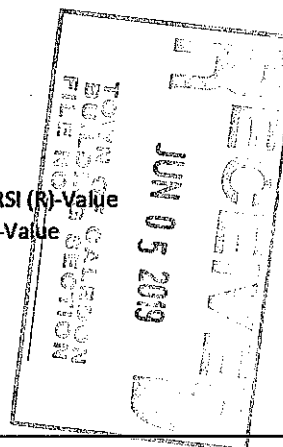
ATTACHMENT:	ATTACHED	# OF STORIES (+BASEMENT):	4
FRONT FACES:	EAST	ASSUMED (Y/N):	Y
AIR CHANGES PER HOUR:	3.00	ASSUMED (Y/N):	Y
AIR TIGHTNESS CATEGORY:	TIGHT	ASSUMED (Y/N):	Y
WIND EXPOSURE:	SHELTERED	ASSUMED (Y/N):	Y
HOUSE VOLUME (ft³):	24461.0	ASSUMED (Y/N):	Y
INTERNAL SHADING:	BLINDS/CURTAINS	ASSUMED OCCUPANTS:	4
INTERIOR LIGHTING LOAD (Btu/h/ft²):	2.00	DC BRUSHLESS MOTOR (Y/N):	Y
FOUNDATION CONFIGURATION	BCIN_1	DEPTH BELOW GRADE:	6.0 ft
LENGTH: 36.0 ft	WIDTH: 23.0 ft	EXPOSED PERIMETER:	95.0 ft

2012 OBC - COMPLIANCE PACKAGE**Component**

Ceiling with Attic Space Minimum RSI (R)-Value
Ceiling Without Attic Space Minimum RSI (R)-Value
Exposed Floor Minimum RSI (R)-Value
Walls Above Grade Minimum RSI (R)-Value
Basement Walls Minimum RSI (R)-Value
Below Grade Slab Entire surface > 600 mm below grade Minimum RSI (R)-Value
Edge of Below Grade Slab ≤ 600 mm Below Grade Minimum RSI (R)-Value
Heated Slab or Slab ≤ 600 mm below grade Minimum RSI (R)-Value
Windows and Sliding Glass Doors Maximum U-Value
Skylights Maximum U-Value
Space Heating Equipment Minimum AFUE
HRV Minimum Efficiency
Domestic Hot Water Heater Minimum EF

**Compliance Package
ENERGYSTAR**

Nominal	Min. Eff.
60	59.20
31	27.70
31	29.80
22 + 5ci	21.10
20ci	21.12
-	-
10	10
10	11.13
ZONE 2	-
ZONE 2	-
COMBO	-
75%	-
TPF 0.93	-

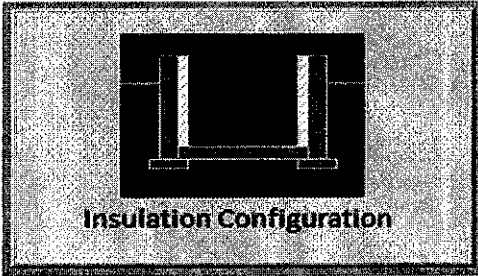


INDIVIDUAL BCIN: 19669

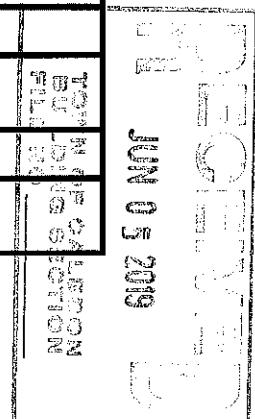
MICHAEL O'ROURKE

Residential Foundation Thermal Load Calculator

Supplemental tool for CAN/CSA-F280

Weather Station Description		
Province:	Ontario	
Region:	Brampton	
Site Description		
Soil Conductivity:	Normal conductivity: dry sand, loam, clay	
Water Table:	Normal (7-10 m, 23-33 ft)	
Foundation Dimensions		
Floor Length (m):	11.0	 Insulation Configuration
Floor Width (m):	7.0	
Exposed Perimeter (m):	29.0	
Wall Height (m):	2.7	
Depth Below Grade (m):	1.83	
Window Area (m ²):	0.9	
Door Area (m ²):	1.9	
Radiant Slab		
Heated Fraction of the Slab:	0	
Fluid Temperature (°C):	33	
Design Months		
Heating Month	1	
Foundation Loads		
Heating Load (Watts):	903	

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 TYPE: URBAN 2
 LO# 81393


Air Infiltration Residential Load Calculator

Supplemental tool for CAN/CSA-F280

Weather Station Description

Province: Ontario
Region: Brampton
Weather Station Location: Open flat terrain, grass
Anemometer height (m): 10

Local Shielding

Building Site: Suburban, forest
Walls: Heavy
Flue: Heavy
Highest Ceiling Height (m): 9.45

Building Configuration

Type: Semi
Number of Stories: Three
Foundation: Full
House Volume (m³): 692.7

Air Leakage/Ventilation

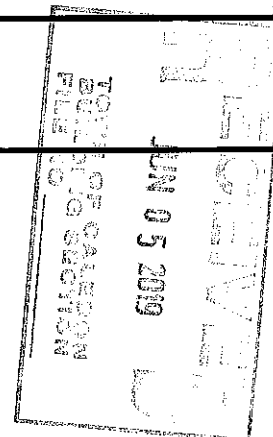
Air Tightness Type: Energy Star Attached (3.0 ACH)
Custom BDT Data: ELA @ 10 Pa. 775.9 cm²
3.00 ACH @ 50 Pa
Mechanical Ventilation (L/s): Total Supply Total Exhaust
30.0 30.0

Flue Size

Flue #:	#1	#2	#3	#4
Diameter (mm):	0	0	0	0

Natural Infiltration Rates

Heating Air Leakage Rate (ACH/H): **0.356**
Cooling Air Leakage Rate (ACH/H): **0.122**

TYPE: URBAN 2
LO# 81393THIS STRUCTURE MUST BE
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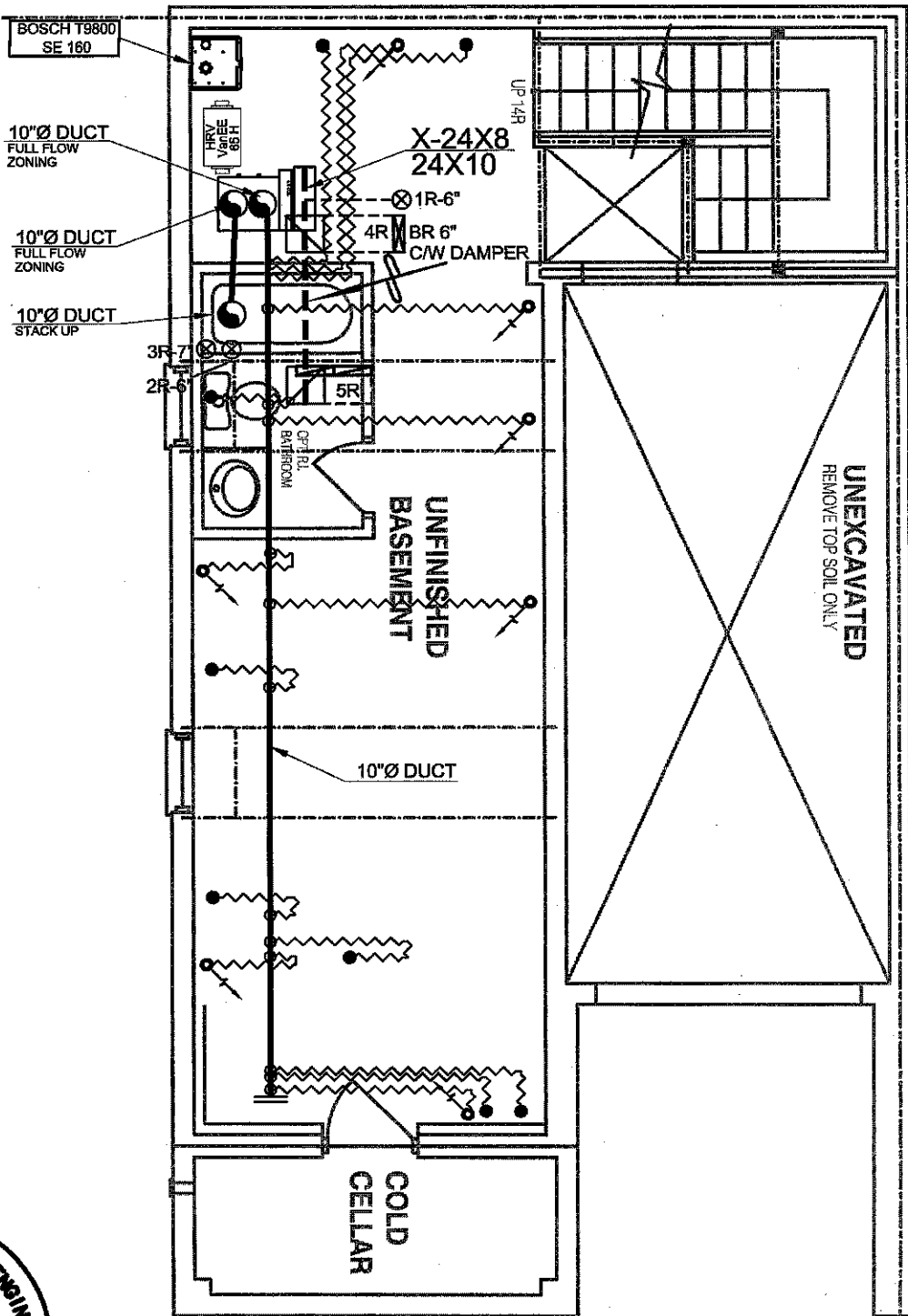
CSA-F280-12



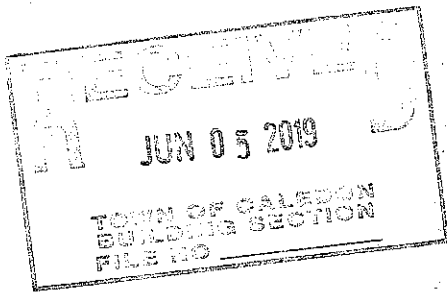
ENERGY STAR

METHOD 'A'
FLEX DUCT MIN LENGTH 6'
MAX LENGTH 10'

HVAC LEGEND	
	OUTLET
	DUCTWORK
	FLEX DUCT
	RETURN AIR GRILLE



EL-1,2,2A,3,4, & 5



CERTIFIED MODEL
PRE-APPROVED
FOR PERMIT APPLICATION AS PER THE
ONTARIO BUILDING CODE
TOWN OF CALEDON BUILDING DIVISION
REVIEWED BY *[Signature]* (SA)
DATE JUNE 13, 2019
FILE # CMOD-URBAN2

(ELEVATION 1,2,2A,3,4&5)

APPLICANT COPY

- I. INSTALLATION TO COMPLY WITH THE LATEST EDITIONS OF THE ONTARIO BUILDING CODE AND REDZONE DESIGN AND INSTALLATION MANUALS
- II. VENT HOT WATER TANK OR BOILER TO MANUFACTURERS SPECS & ALL LOCAL CODES
- III. COMBUSTION AIR INTAKE (INSTALL per ALL LOCAL CODES)
- IV. MAXIMUM TEMPERATURE OF HOT WATER SUPPLIED TO PLUMBING FIXTURES SHALL NOT EXCEED 120°F or 49°C
- V. CONTRACTOR SHALL SEAL SUPPLY DUCT JOINTS AND GORES WITH AN APPROVED SEALANT

UNIT EQUIPMENT SUMMARY

UNIT	HEAT LOSS	REQUIRED HEAT LOSS (HEAT LOSS + 10%)	AIR HANDLER MODEL (REDZONE)	HEAT OUTPUT (BTU/H @ TEMP)	HEAT SOURCE (HOT WATER TANK / BOILER)	HEAT SOURCE INPUT (BTU/H)	HEAT GAIN LOAD (BTU/H)	A/C CONDENSER SIZE (TONS)
AH-1	32,256	35,481	DVS-800 FULL FLOW ZONING	40,600 @ 140°F	BOSCH T9800 SE 160	160,000	22,737	2.0

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Client
GREENPARK HOMES

Project Name
**LAMBERTS LANE HOME CORP PH 2
CALEDON, ONTARIO**

URBAN 2 **2081 sqft**

HVACDESIGNS 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.

**THIS STRUCTURE MUST BE
CONSTRUCTED TO MEET OR
EXCEED THE PROVISIONS OF
THE ONTARIO BUILDING CODE**

Sheet Title
**BASEMENT
HEATING
LAYOUT**

Date **MAR/2019**

Scale **3/16" = 1'-0"**

BCIN# **19669**

LO# **81393**

CSA-F280-12



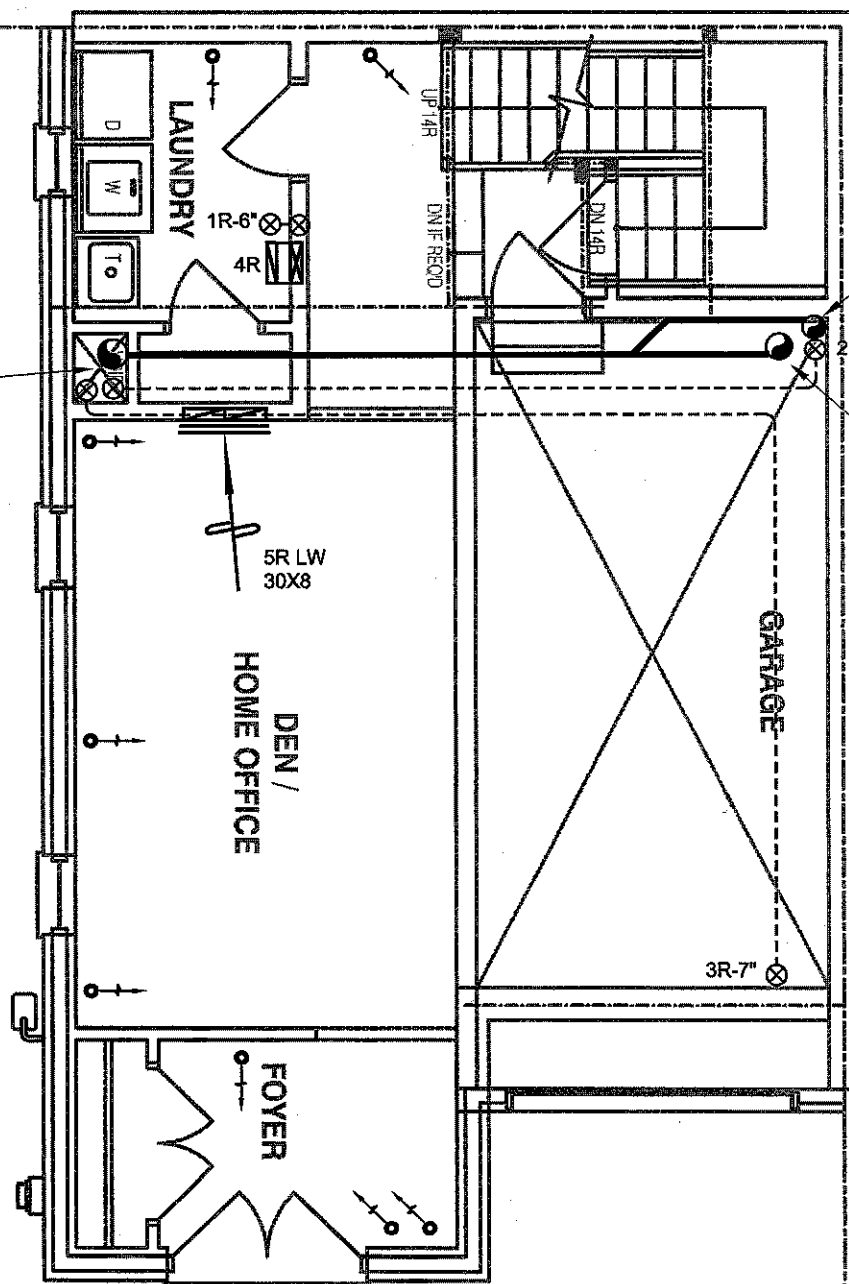
ENERGY STAR

METHOD 'A'
FLEX DUCT MIN LENGTH 6'
MAX LENGTH 10'

HVAC LEGEND

	OUTLET
	DUCTWORK
	FLEX DUCT
	RETURN AIR GRILLE

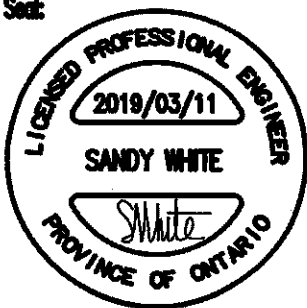
10"Ø DUCT
FROM BELOW



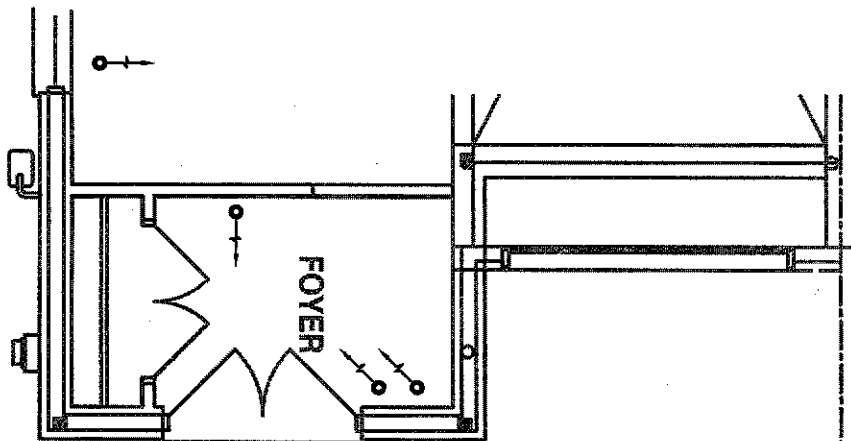
ENERGY STAR FOR NEW HOMES STANDARD 4.7.2.2

ALL DUCTS FOR HEATING, VENTILATION AND AIR CONDITIONING
SHALL BE LOCATED WITHIN THE HEATED BOUNDARY.

Seal



ELEVATION 1



EL.- 2,2A,3,4 & 5

- INSTALLATION TO COMPLY WITH THE LATEST EDITIONS OF THE ONTARIO BUILDING CODE AND REDZONE DESIGN AND INSTALLATION MANUALS
- VENT HOT WATER TANK OR BOILER TO MANUFACTURERS SPECS & ALL LOCAL CODES
- COMBUSTION AIR INTAKE (INSTALL per ALL LOCAL CODES)
- MAXIMUM TEMPERATURE OF HOT WATER SUPPLIED TO PLUMBING FIXTURES SHALL NOT EXCEED 120°F or 49°C
- CONTRACTOR SHALL SEAL SUPPLY DUCT JOINTS AND GORES WITH AN APPROVED SEALANT

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Client

GREENPARK HOMES

Project Name

LAMBERTS LANE HOME CORP PH 2
CALEDON, ONTARIO

URBAN 2

2081 sqft

HVAC DESIGNS LTD.

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

THIS STRUCTURE MUST BE
CONSTRUCTED TO MEET OR
EXCEED THE PROVISIONS OF
THE ONTARIO BUILDING CODE

Sheet Title

**FIRST FLOOR
HEATING
LAYOUT**

Date MAR/2019

Scale 3/16" = 1'-0"

BCIN# 19669

LO# 81393

METHOD 'A'
FLEX DUCT MIN LENGTH 6'
MAX LENGTH 10'

HVAC LEGEND	
	OUTLET
	DUCTWORK
	FLEX DUCT
	RETURN AIR GRILLE

6"Ø DUCT

6"Ø DUCT
FROM BELOW

9"Ø DUCT
FROM BELOW

LW

FAMILY

ELEVATION 4 & 5



ELEVATION 1

BREAKFAST

LW

FAMILY

ELEVATION 2 & 2A

BREAKFAST

LW

FAMILY

ELEVATION 3

- INSTALLATION TO COMPLY WITH THE LATEST EDITIONS OF THE ONTARIO BUILDING CODE AND REDZONE DESIGN AND INSTALLATION MANUALS
- VENT HOT WATER TANK OR BOILER TO MANUFACTURERS SPECS & ALL LOCAL CODES
- COMBUSTION AIR INTAKE (INSTALL per ALL LOCAL CODES)
- MAXIMUM TEMPERATURE of HOT WATER SUPPLIED TO PLUMBING FIXTURES SHALL NOT EXCEED 120°F or 49°C
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Client
GREENPARK HOMES

Project Name
**LAMBERTS LANE HOME CORP PH 2
CALEDON, ONTARIO**

HVACDESIGNS LTD.

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Sheet Title
**SECOND FLOOR
HEATING
LAYOUT**

Date
MAR/2019

Scale
3/16" = 1'-0"

BCIN# 19669

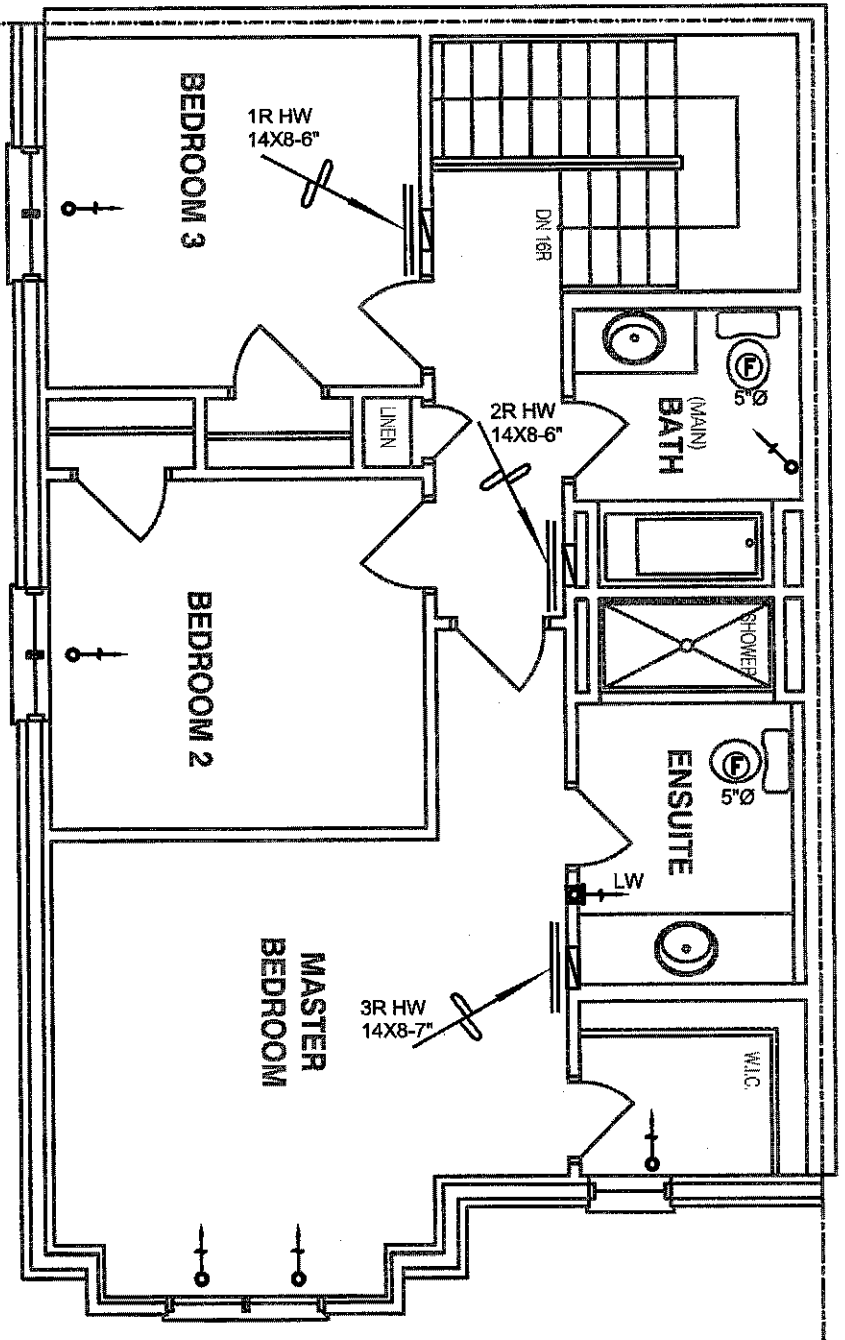
LO# **81393**

URBAN 2

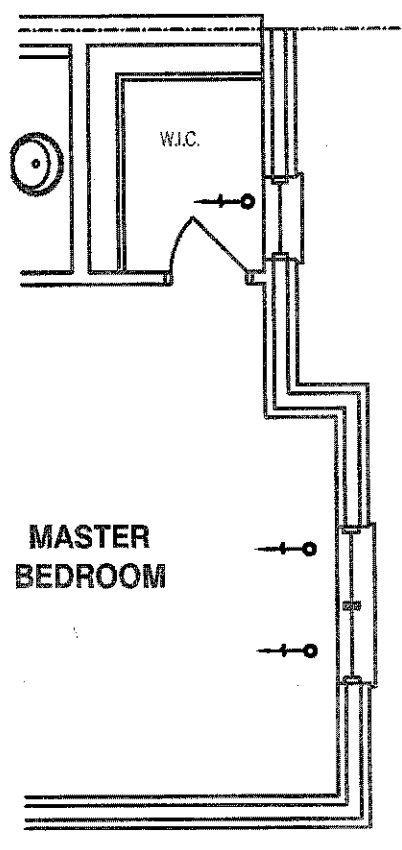
2081 sqft

METHOD 'A'
FLEX DUCT MIN LENGTH 6'
MAX LENGTH 10'

HVAC LEGEND	
	OUTLET
	DUCTWORK
	FLEX DUCT
	RETURN AIR GRILLE

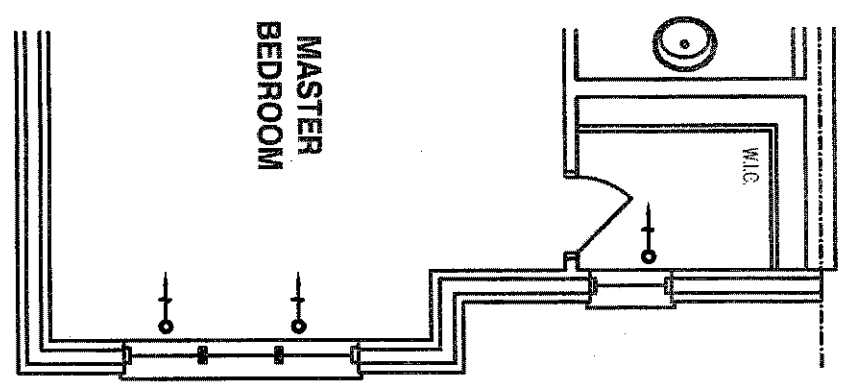


ELEVATION 1

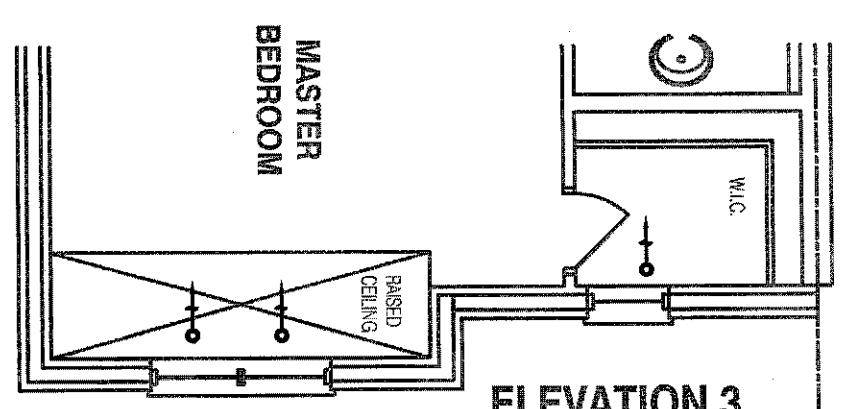


MASTER
BEDROOM

ELEVATION 4 /5



ELEVATION 2 & 2A



ELEVATION 3

- I. INSTALLATION TO COMPLY WITH THE LATEST EDITIONS OF THE ONTARIO BUILDING CODE AND REDZONE DESIGN AND INSTALLATION MANUALS
- II. VENT HOT WATER TANK OR BOILER TO MANUFACTURERS' SPECS & ALL LOCAL CODES
- III. COMBUSTION AIR INTAKE (INSTALL per ALL LOCAL CODES)
- IV. MAXIMUM TEMPERATURE OF HOT WATER SUPPLIED TO PLUMBING FIXTURES SHALL NOT EXCEED 120°F or 49°C
- V. CONTRACTOR SHALL SEAL SUPPLY DUCT JOINTS AND GORES WITH AN APPROVED SEALANT

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Client GREENPARK HOMES Project Name LAMBERTS LANE HOME CORP PH 2 CALEDON, ONTARIO URBAN 2 2081 sqft	 375 Finley Ave. Suite 202 - Ajax, Ontario L1S 2E2 Tel. 905.619.2300 - 905.420.5300 Fax 905.619.2375 Email: info@hvacdsgns.ca Web: www.hvacdsgns.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.	THIS STRUCTURE MUST BE CONSTRUCTED TO MEET OR EXCEED THE PROVISIONS OF THE ONTARIO BUILDING CODE	Sheet Title THIRD FLOOR HEATING LAYOUT Date MAR/2019 Scale 3/16" = 1'-0" BCIN# 19669 LO# 81393
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