

RECEIVED
TOWN OF MILTON
MAY 5, 2017
17-5337
BUILDING DIVISION

| | | | | | |
|------------------------|-------|------------|--|-----------------------------|--------------------------------------|
| TOTAL HEAT GAIN BTU/H: | 30955 | TONS: 2.58 | LOSS DUE TO VENTILATION LOAD BTU/H: 2286 | STRUCTURAL HEAT LOSS: 33974 | TOTAL COMBINED HEAT LOSS BTU/H: 3626 |
|------------------------|-------|------------|--|-----------------------------|--------------------------------------|

SITE NAME: LECCO RIDGE
BUILDER: GREENPARK HOMES

TYPE: IVY 11

DATE: Jan-17

GFA: 2256

LO# 71719

HEATING CFM 890 COOLING CFM 890
TOTAL HEAT LOSS 33,974 TOTAL HEAT GAIN 30,525
AIR FLOW RATE CFM 26.2 AIR FLOW RATE CFM 29.16

furnace pressure 0.6
furnace filter 0.05
a/c coil pressure 0.2
available pressure for s/a & r/a 0.35

#AMANA
AMEC960402BNA 40
FAN SPEED LOW
MEDLOW
MEDIUM
MEDIUM HIGH
HIGH 890

AFUE = 96 %
INPUT (BTU/H) = 40,000
OUTPUT (BTU/H) = 38,400

DESIGN CFM = 890
CFM @ .5" E.S.P.

TEMPERATURE RISE 40 °F

| RUN COUNT | 4th | 3rd | 2nd | 1st | Bas |
|-----------|-----|-----|-----|-----|-----|
| S/A | 0 | 0 | 9 | 8 | 4 |
| R/A | 0 | 0 | 4 | 2 | 1 |

All S/A diffusers 4"x10" unless noted otherwise on layout.
All S/A runs 5'Ø unless noted otherwise on layout.

| RUN # | 1 | 2 | 3 | 6 | 7 | 8 | 9 | 10 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---------------------------|------|------|------|-------|------|-------|-------|------|------|------|-------|-------|-------|------|------|------|------|------|------|------|------|
| ROOM NAME | MBR | ENS | WIC | BED-4 | BATH | BED-2 | BED-3 | MBR | OFF | DIN | KT/FM | KT/FM | KT/FM | LAUN | WR | FOY | MUD | BAS | BAS | BAS | BAS |
| RM LOSS MBH | 1.37 | 0.86 | 0.11 | 2.25 | 0.75 | 2.01 | 2.39 | 1.37 | 2.82 | 2.41 | 1.41 | 1.41 | 1.41 | 0.13 | 0.18 | 1.70 | 0.82 | 2.65 | 2.65 | 2.65 | 2.65 |
| CFM PER RUN HEAT | 36 | 23 | 3 | 59 | 20 | 53 | 63 | 36 | 74 | 63 | 37 | 37 | 37 | 3 | 5 | 44 | 22 | 69 | 69 | 69 | 69 |
| RM GAIN MBH | 2.06 | 1.07 | 0.06 | 2.83 | 0.54 | 3.77 | 3.19 | 2.06 | 3.52 | 2.51 | 2.08 | 2.08 | 2.08 | 0.68 | 0.03 | 0.50 | 0.16 | 0.32 | 0.32 | 0.32 | 0.32 |
| CFM PER RUN COOLING | 60 | 31 | 2 | 83 | 16 | 110 | 93 | 60 | 103 | 73 | 61 | 61 | 61 | 20 | 1 | 15 | 5 | 9 | 9 | 9 | 9 |
| ADJUSTED PRESSURE | 0.17 | 0.17 | 0.17 | 0.16 | 0.17 | 0.15 | 0.16 | 0.17 | 0.16 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 |
| ACTUAL DUCT LGH | 23 | 57 | 20 | 20 | 64 | 50 | 52 | 16 | 53 | 10 | 40 | 13 | 32 | 48 | 26 | 44 | 34 | 26 | 16 | 45 | 27 |
| EQUIVALENT LENGTH | 140 | 180 | 150 | 130 | 170 | 170 | 130 | 140 | 150 | 130 | 150 | 150 | 170 | 130 | 130 | 190 | 150 | 140 | 130 | 160 | 180 |
| TOTAL EFFECTIVE LENGTH | 163 | 237 | 170 | 150 | 234 | 220 | 182 | 156 | 203 | 140 | 190 | 163 | 202 | 178 | 156 | 234 | 184 | 166 | 146 | 205 | 207 |
| ADJUSTED PRESSURE | 0.11 | 0.07 | 0.1 | 0.11 | 0.07 | 0.07 | 0.09 | 0.11 | 0.08 | 0.12 | 0.09 | 0.11 | 0.09 | 0.1 | 0.11 | 0.07 | 0.09 | 0.1 | 0.12 | 0.08 | 0.08 |
| ROUND DUCT SIZE | 5 | 4 | 4 | 5 | 4 | 6 | 6 | 5 | 6 | 5 | 5 | 5 | 5 | 4 | 4 | 5 | 4 | 5 | 5 | 5 | 5 |
| HEATING VELOCITY (ft/min) | 264 | 264 | 34 | 433 | 229 | 270 | 321 | 264 | 377 | 463 | 272 | 272 | 272 | 34 | 57 | 323 | 252 | 507 | 507 | 507 | 507 |
| COOLING VELOCITY (ft/min) | 441 | 356 | 23 | 609 | 184 | 561 | 474 | 441 | 525 | 536 | 448 | 448 | 448 | 229 | 11 | 110 | 57 | 66 | 66 | 66 | 66 |
| OUTLET GRILL SIZE | 3X10 | 3X10 | 3X10 | 3X10 | 3X10 | 4X10 | 4X10 | 3X10 | 4X10 | 3X10 | 3X10 | 3X10 | 3X10 | 3X10 | 3X10 | 3X10 | 3X10 | 3X10 | 3X10 | 3X10 | 3X10 |
| TRUNK | C | B | B | D | A | B | A | D | A | D | B | D | C | B | B | A | B | C | C | A | B |

RUN #
ROOM NAME
RM LOSS MBH
CFM PER RUN HEAT
RM GAIN MBH
CFM PER RUN COOLING
ADJUSTED PRESSURE
ACTUAL DUCT LGH
EQUIVALENT LENGTH
TOTAL EFFECTIVE LENGTH
ADJUSTED PRESSURE
ROUND DUCT SIZE
HEATING VELOCITY (ft/min)
COOLING VELOCITY (ft/min)
OUTLET GRILL SIZE
TRUNK

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SUPPLY AIR TRUNK SIZE

| | TRUNK | STATIC | ROUND | RECT | | VELOCITY | | TRUNK | STATIC | ROUND | RECT | | VELOCITY |
|---------|-------|--------|-------|------|---|----------|-----|---------|--------|-------|------|---|----------|
| | CFM | PRESS. | DUCT | DUCT | | (ft/min) | | CFM | PRESS. | DUCT | DUCT | | (ft/min) |
| TRUNK A | 270 | 0.07 | 8.9 | 10 | x | 8 | 486 | TRUNK G | 0 | 0.00 | 0 | 0 | 8 |
| TRUNK B | 215 | 0.07 | 8.2 | 8 | x | 8 | 484 | TRUNK H | 0 | 0.00 | 0 | 0 | 8 |
| TRUNK C | 696 | 0.07 | 12.7 | 18 | x | 8 | 696 | TRUNK I | 0 | 0.00 | 0 | 0 | 8 |
| TRUNK D | 195 | 0.11 | 7 | 6 | x | 8 | 585 | TRUNK J | 0 | 0.00 | 0 | 0 | 8 |
| TRUNK E | 0 | 0.00 | 0 | 0 | x | 8 | 0 | TRUNK K | 0 | 0.00 | 0 | 0 | 8 |
| TRUNK F | 0 | 0.00 | 0 | 0 | x | 8 | 0 | TRUNK L | 0 | 0.00 | 0 | 0 | 8 |

RETURN AIR TRUNK SIZE

| | TRUNK | STATIC | ROUND | RECT | | VELOCITY |
|---------|-------|--------|-------|------|---|----------|
| | CFM | PRESS. | DUCT | DUCT | | (ft/min) |
| TRUNK O | 0 | 0.06 | 0 | 0 | x | 8 |
| TRUNK P | 0 | 0.06 | 0 | 0 | x | 8 |
| TRUNK Q | 0 | 0.06 | 0 | 0 | x | 8 |
| TRUNK R | 0 | 0.06 | 0 | 0 | x | 8 |
| TRUNK S | 0 | 0.06 | 0 | 0 | x | 8 |
| TRUNK T | 0 | 0.06 | 0 | 0 | x | 8 |
| TRUNK U | 0 | 0.06 | 0 | 0 | x | 8 |
| TRUNK V | 0 | 0.06 | 0 | 0 | x | 8 |
| TRUNK W | 0 | 0.06 | 0 | 0 | x | 8 |
| TRUNK X | 890 | 0.06 | 14.4 | 24 | x | 8 |
| TRUNK Y | 240 | 0.06 | 8.8 | 10 | x | 8 |
| TRUNK Z | 0 | 0.06 | 0 | 0 | x | 8 |
| DROP | 890 | 0.06 | 14.4 | 24 | x | 10 |

| RETURN AIR # | 1 | 2 | 3 | 4 | 5 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | BR |
|--------------------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| AIR VOLUME | 135 | 135 | 85 | 85 | 175 | 155 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120 |
| PLENUM PRESSURE | 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 | 0.15 | 0.15 |
| ACTUAL DUCT LGH | 18 | 12 | 50 | 62 | 18 | 45 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 14 |
| EQUIVALENT LENGTH | 175 | 215 | 215 | 190 | 135 | 185 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 135 |
| TOTAL EFFECTIVE LH | 193 | 227 | 265 | 252 | 153 | 230 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 149 |
| ADJUSTED PRESSURE | 0.08 | 0.07 | 0.06 | 0.06 | 0.10 | 0.06 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 0.10 |
| ROUND DUCT SIZE | 6.6 | 6.8 | 6 | 6 | 6.9 | 7.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| INLET GRILL SIZE | 8 | 8 | 8 | 8 | 8 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| INLET GRILL SIZE | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| INLET GRILL SIZE | 14 | 14 | 14 | 14 | 14 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |

TYPE: IVY 11
SITE NAME: LECCO RIDGE

LO # 71719

RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

| | |
|--|--------------------|
| COMBUSTION APPLIANCES | 9.32.3.1(1) |
| a) <input checked="" type="checkbox"/> Direct vent (sealed combustion) only | |
| b) <input type="checkbox"/> Positive venting induced draft (except fireplaces) | |
| c) <input type="checkbox"/> Natural draft, B-vent or induced draft gas fireplace | |
| d) <input type="checkbox"/> Solid Fuel (including fireplaces) | |
| e) <input type="checkbox"/> No Combustion Appliances | |

| | |
|--|---|
| HEATING SYSTEM | |
| <input checked="" type="checkbox"/> Forced Air | <input type="checkbox"/> Non Forced Air |
| <input type="checkbox"/> Electric Space Heat | |

| | |
|---|------------------|
| HOUSE TYPE | 9.32.1(2) |
| <input checked="" type="checkbox"/> I Type a) or b) appliance only, no solid fuel | |
| <input type="checkbox"/> II Type I except with solid fuel (including fireplaces) | |
| <input type="checkbox"/> III Any Type c) appliance | |
| <input type="checkbox"/> IV Type I, or II with electric space heat | |
| <input type="checkbox"/> Other: Type I, II or IV no forced air | |

| | |
|---|-------------------|
| SYSTEM DESIGN OPTIONS | O.N.H.W.P. |
| <input type="checkbox"/> 1 Exhaust only/Forced Air System | |
| <input type="checkbox"/> 2 HRV with Ducting/Forced Air System | |
| <input checked="" type="checkbox"/> 3 HRV Simplified/connected to forced air system | |
| <input type="checkbox"/> 4 HRV with Ducting/non forced air system | |
| <input type="checkbox"/> Part 6 Design | |

| | | | | | |
|-----------------------------------|--------------|------------|------|--------------|--------------------|
| TOTAL VENTILATION CAPACITY | | | | | 9.32.3.3(1) |
| Basement + Master Bedroom | 2 | @ 21.2 cfm | 42.4 | cfm | |
| Other Bedrooms | 3 | @ 10.6 cfm | 31.8 | cfm | |
| Kitchen & Bathrooms | 4 | @ 10.6 cfm | 42.4 | cfm | |
| Other Rooms | 5 | @ 10.6 cfm | 53.0 | cfm | |
| Table 9.32.3.A. | TOTAL | | | 169.6 | 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 | |
| More than 5 - Part 6 | | TOTAL | 79.5 | cfm |

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* MICHAEL O'ROURKE

| | | |
|--|-------|------------------|
| SUPPLEMENTAL VENTILATION CAPACITY | | 9.32.3.5. |
| Total Ventilation Capacity | 169.6 | cfm |
| Less Principal Ventil. Capacity | 86 | cfm |
| Required Supplemental Capacity | 83.6 | cfm |

| | |
|--|----------------|
| PRINCIPAL EXHAUST FAN CAPACITY | |
| Model: VANEE 40H+ | Location: BSMT |
| 86.0 cfm | 3.0 sones |
| <input checked="" type="checkbox"/> HVI Approved | |

| | | | | |
|--|--------|--------|---|------|
| PRINCIPAL EXHAUST HEAT LOSS CALCULATION | | | | |
| CFM | ΔT °F | FACTOR | % | LOSS |
| 86.0 CFM | X 72 F | X 1.08 | X | 0.34 |

| | | | | |
|--------------------------|-----------|---------------|-----|-------|
| SUPPLEMENTAL FANS | | NUTONE | | |
| Location | Model | cfm | HVI | Sones |
| ENS | QTXEN050C | 50 | ✓ | 0.3 |
| BATH | QTXEN050C | 50 | ✓ | 0.3 |
| W/R | QTXEN050C | 50 | ✓ | 0.3 |

| | | |
|---------------------------------|-----------------------|--|
| HEAT RECOVERY VENTILATOR | | 9.32.3.11. |
| Model: VANEE 40H+ | | |
| 86 | cfm high | 37 cfm low |
| 66 | % Sensible Efficiency | <input checked="" type="checkbox"/> HVI Approved |
| @ 32 deg F (0 deg C) | | |

| | |
|---------------------------------|---|
| LOCATION OF INSTALLATION | |
| Lot: | C |
| Township | P |
| Address | |
| Roll # | |

RECEIVED
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17-5337
BUILDING DIVISION

| | | |
|------------------------------|--|---|
| BUILDER: | | TOWN OF MILTON PLANNING AND DEVELOPMENT BUILDING PERMIT: 17-5337 BUILDING: REVIEWED SCOTT SHERRIFFS MAY 9, 2017 PLANS EXAMINER DATE <small>Neither the issuance of a permit nor carrying out of inspections by the Town of Milton relieves the owner from full responsibility for compliance with the provisions of the Ontario Building Code Act and the Ontario Building Code, both as amended, as well as other applicable statutes and regulations of the Province of Ontario, By-laws of the Region of Halton and Town of Milton</small> |
| Name: | | |
| Address: | | |
| City: | | |
| Telephone #: | | |
| 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: | <i>Michael O'Rourke</i> |
| HRAI # | 001820 |
| Date: | January-17 |

HEAT LOSS AND GAIN SUMMARY SHEET**MODEL:** IVY 11**SFQT:** 2256**LO#** 71719**BUILDER:** GREENPARK HOMES**SITE:** LECCO RIDGE**DESIGN ASSUMPTIONS**

| HEATING | °F | COOLING | °F |
|----------------------|----|--------------------------------|------|
| OUTDOOR DESIGN TEMP. | 0 | OUTDOOR DESIGN TEMP. | 86 |
| INDOOR DESIGN TEMP. | 72 | INDOOR DESIGN TEMP. (MAX 75°F) | 72.4 |

BUILDING DATA

| | | | |
|-------------------------------------|-----------------|---------------------------|----------|
| ATTACHMENT: | ATTACHED | # OF STORIES (+BASEMENT): | 3 |
| FRONT FACES: | EAST | ASSUMED (Y/N): | Y |
| AIR CHANGES PER HOUR: | 3 | ASSUMED (Y/N): | Y |
| AIR TIGHTNESS CATEGORY: | TIGHT | ASSUMED (Y/N): | Y |
| WIND EXPOSURE: | UNSHelterED | ASSUMED (Y/N): | Y |
| HOUSE VOLUME (ft³): | 30715.6 | ASSUMED (Y/N): | Y |
| INTERNAL SHADING: | BLINDS/CURTAINS | ASSUMED OCCUPANTS: | 5 |
| INTERIOR LIGHTING LOAD (Btu/h/ft²): | 1.27 | DC BRUSHLESS MOTOR (Y/N): | Y |
| FOUNDATION CONFIGURATION | BCIN_1 | DEPTH BELOW GRADE: | 6.8 ft |
| LENGTH: 57.0 ft | WIDTH: 25.0 ft | EXPOSED PERIMETER: | 134.0 ft |

2012 OBC - COMPLIANCE PACKAGE**Component****Compliance Package
ENERGYSTAR****Nominal**

| | |
|--|--------|
| Ceiling with Attic Space Minimum RSI (R)-Value | 50 |
| Ceiling Without Attic Space Minimum RSI (R)-Value | 31 |
| Exposed Floor Minimum RSI (R)-Value | 31 |
| Walls Above Grade Minimum RSI (R)-Value | 20+3.6 |
| Basement Walls Minimum RSI (R)-Value | 20 |
| 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 | 10 |
| Heated Slab or Slab ≤ 600 mm below grade Minimum RSI (R)-Value | 10 |
| Windows and Sliding Glass Doors Maximum U-Value | ZONE 2 |
| Skylights Maximum U-Value | ZONE 2 |
| Space Heating Equipment Minimum AFUE | 0.95 |
| HRV Minimum Efficiency | 65% |
| Domestic Hot Water Heater Minimum EF | 90% TE |

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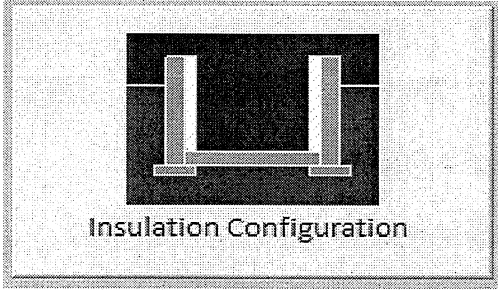
INDIVIDUAL BCIN: 19669

MICHAEL O'ROURKE



Residential Foundation Thermal Load Calculator

Supplemental tool for CAN/CSA-F280

| Weather Station Description | | |
|--------------------------------|---|---|
| Province: | Ontario | |
| Region: | Milton | |
| Site Description | | |
| Soil Conductivity: | Normal conductivity: dry sand, loam, clay | |
| Water Table: | Normal (7-10 m, 23-33 ft) | |
| Foundation Dimensions | | |
| Floor Length (m): | 17.4 |  Insulation Configuration |
| Floor Width (m): | 7.6 | |
| Exposed Perimeter (m): | 40.8 | |
| Wall Height (m): | 2.7 | |
| Depth Below Grade (m): | 2.07 | |
| Window Area (m ²): | 1.3 | |
| 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): | | 1153 |

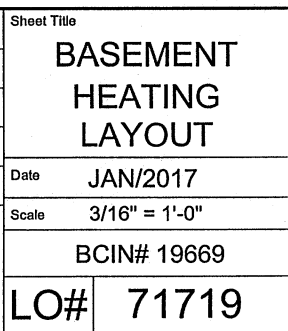
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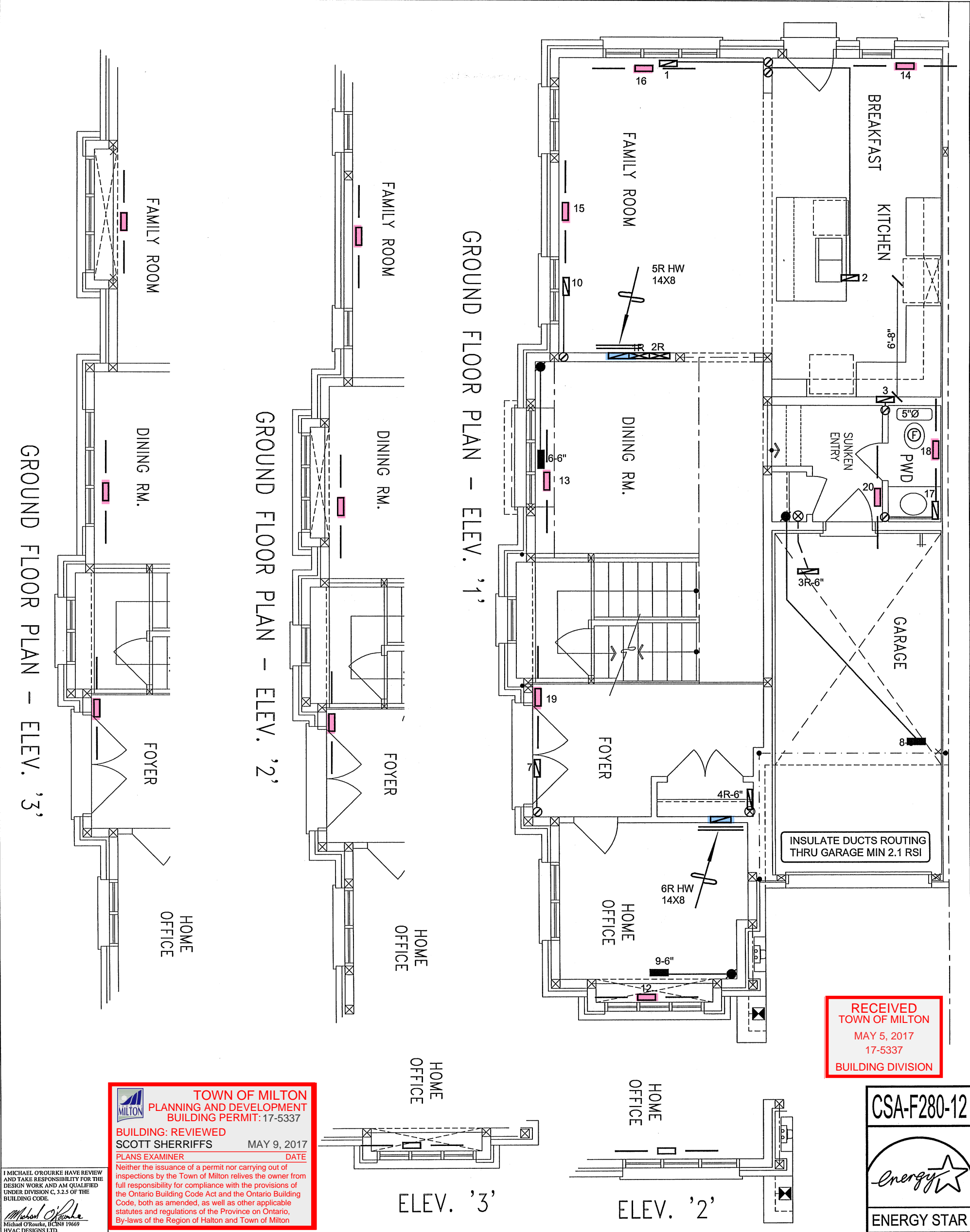
Air Infiltration Residential Load Calculator


Supplemental tool for CAN/CSA-F280

| Weather Station Description | | | | |
|-----------------------------------|--------------------------------|-----------------------|----|----|
| Province: | Ontario | | | |
| Region: | Milton | | | |
| Weather Station Location: | Open flat terrain, grass | | | |
| Anemometer height (m): | 10 | | | |
| Local Shielding | | | | |
| Building Site: | Suburban, forest | | | |
| Walls: | Very heavy | | | |
| Flue: | Heavy | | | |
| Highest Ceiling Height (m): | 6.34 | | | |
| Building Configuration | | | | |
| Type: | Semi | | | |
| Number of Stories: | Two | | | |
| Foundation: | Full | | | |
| House Volume (m ³): | 869.8 | | | |
| Air Leakage/Ventilation | | | | |
| Air Tightness Type: | Energy Star Attached (3.0 ACH) | | | |
| Custom BDT Data: | ELA @ 10 Pa. | 974.3 cm ² | | |
| | 3.00 | ACH @ 50 Pa | | |
| Mechanical Ventilation (L/s): | Total Supply | Total Exhaust | | |
| | 40.6 | 40.6 | | |
| Flue Size | | | | |
| Flue #: | #1 | #2 | #3 | #4 |
| Diameter (mm): | 0 | 0 | 0 | 0 |
| Natural Infiltration Rates | | | | |
| Heating Air Leakage Rate (ACH/H): | 0.250 | | | |
| Cooling Air Leakage Rate (ACH/H): | 0.076 | | | |

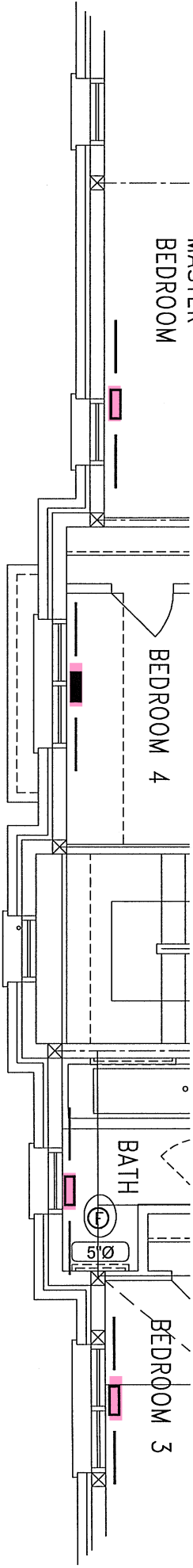
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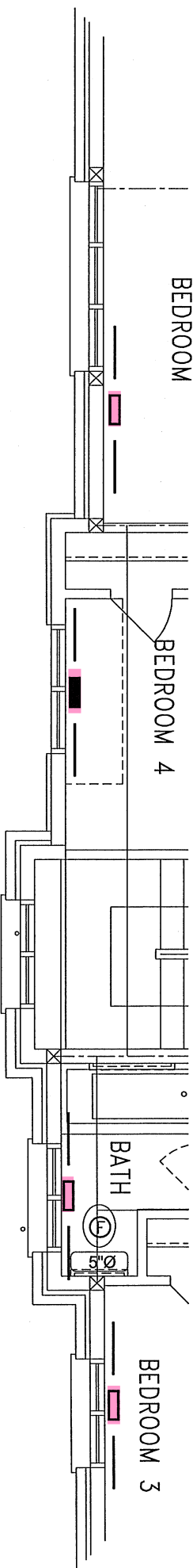


| HVAC LEGEND | | | | | | | | 3. | | |
|--|---------------------------|---|---------------------------------|--------|------------------------------|--------|----------------------------|-----------|----------------------------------|------|
| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION | 2. | | |
| | SUPPLY AIR GRILLE | | 6" SUPPLY AIR BOOT ABOVE | | 14"x8" RETURN AIR GRILLE | | RETURN AIR STACK ABOVE | 1. | | |
| | SUPPLY AIR GRILLE 6" BOOT | | SUPPLY AIR STACK FROM 2nd FLOOR | | 30"x8" RETURN AIR GRILLE | | RETURN AIR STACK 2nd FLOOR | No. | Description | Date |
| | SUPPLY AIR BOOT ABOVE | | 6" SUPPLY AIR STACK 2nd FLOOR | | FRA- FLOOR RETURN AIR GRILLE | | REDUCER | REVISIONS | | |
| ALL DRAWINGS, CALCULATIONS AND SPECIFICATIONS ARE THE PROPERTY OF HVAC DESIGNS LTD.© AND MAY NOT BE REPRODUCED, MODIFIED OR ALTERED WITHOUT EXPRESSED WRITTEN CONSENT. THE DRAWINGS ARE DATED AND USE OF THESE DRAWINGS AFTER ONE YEAR FROM THE DATED NOTED IS NOT AUTHORIZED. CONTRACTOR SHALL CHECK ALL CONDITIONS BEFORE PROCEEDING WITH WORK. LATEST MUNICIPAL APPROVED DRAWINGS ONLY TO BE USED DURING INSTALLATION OF HEATING SYSTEM. HVAC DESIGNS LTD. IS NOT LIABLE FOR ANY CLAIMS ARISING FROM UNAUTHORIZED USE OF THE DRAWINGS OR FROM ANY CHANGES TO ACCEPTED STANDARDS AND/OR THE ONTARIO BUILDING CODE. | | | | | | | | | | |
| Client | | <div><p>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</p></div> | | | | | | | Sheet Title | |
| GREENPARK HOMES | | | | | | | | | FIRST FLOOR HEATING LAYOUT | |
| Project Name | | LECCO RIDGE MILTON, ONTARIO | | | | | | | Date JAN/2017 | |
| IVY 11 | | | | | | | | | 2256 sqft | |
| | | 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. | | | | | | | Scale 3/16" = 1'-0" | |
| | | | | | | | | | BCIN# 19669 | |
| | | | | | | | | | LO# 71719 | |
| | | | | | | | | | | |

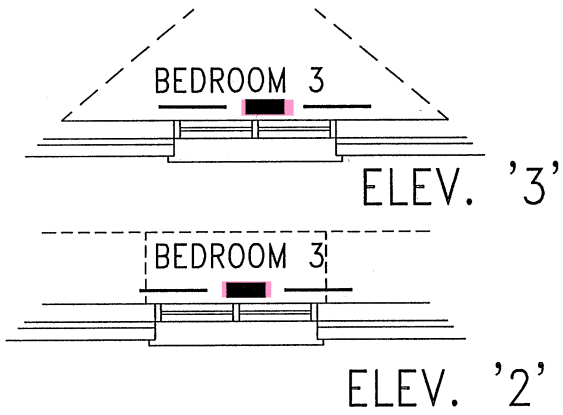
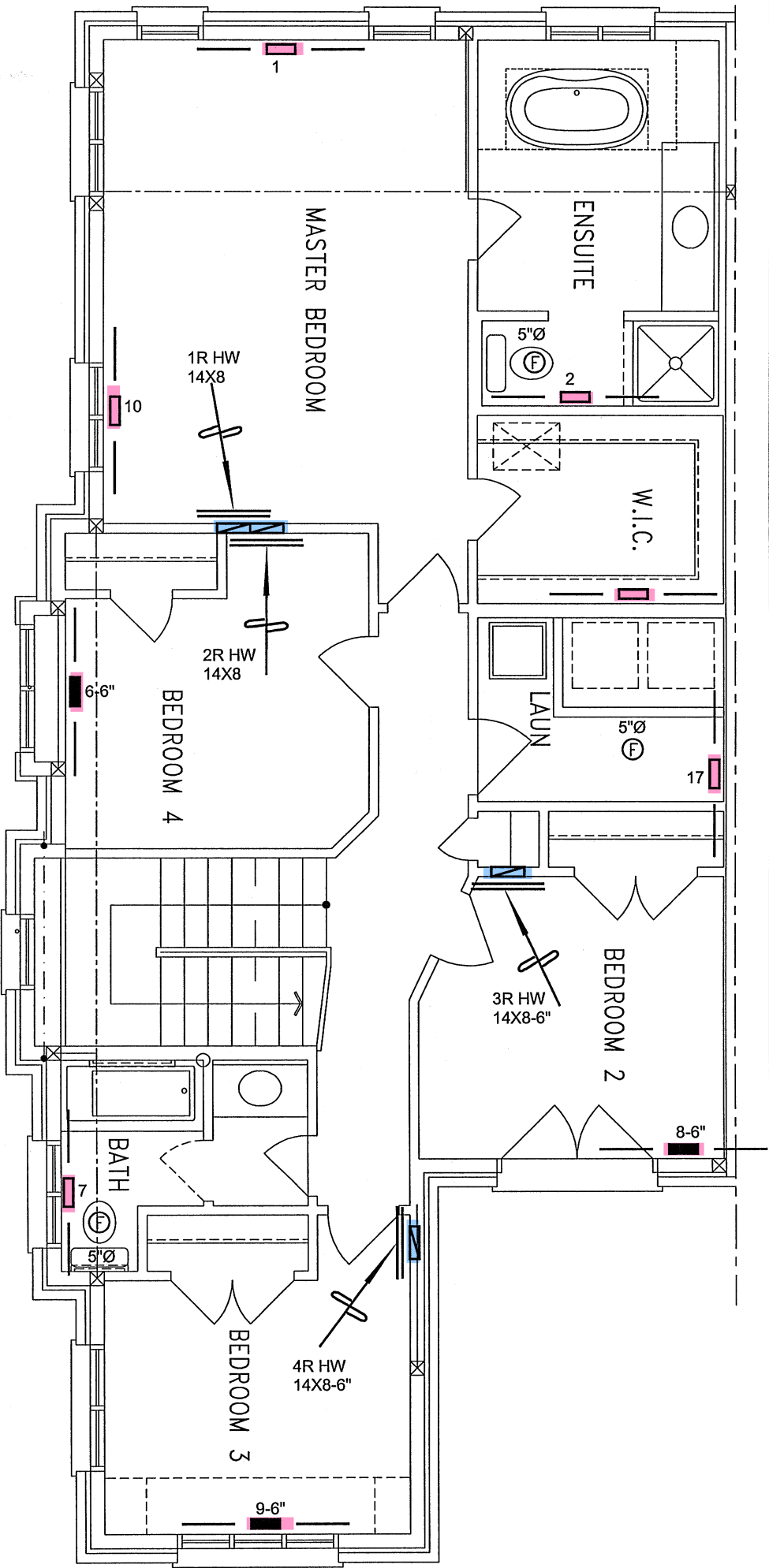
SECOND FLOOR PLAN – ELEV. '2'



SECOND FLOOR PLAN – ELEV. '3'



SECOND FLOOR PLAN – ELEV. '1'



CSA-F280-12



ENERGY STAR

I MICHAEL O'ROURKE HAVE REVIEWED AND TAKE RESPONSIBILITY FOR THE DESIGN WORK AND AM QUALIFIED UNDER DIVISION C, 3.2.5 OF THE BUILDING CODE.

Michael O'Rourke, BCIN# 19669
HVAC DESIGNS LTD.



TOWN OF MILTON
PLANNING AND DEVELOPMENT
BUILDING PERMIT: 17-5337

BUILDING: REVIEWED
SCOTT SHERRIFFS
PLANS EXAMINER
MAY 9, 2017
DATE

Neither the issuance of a permit nor carrying out of inspections by the Town of Milton relieves the owner from full responsibility for compliance with the provisions of the Ontario Building Code Act and the Ontario Building Code, both as amended, as well as other applicable statutes and regulations of the Province of Ontario, By-laws of the Region of Halton and Town of Milton

RECEIVED
TOWN OF MILTON
MAY 5, 2017
17-5337
BUILDING DIVISION

| HVAC LEGEND | | | | | | 3. | |
|-------------|---------------------------|--------|---------------------------------|--------|------------------------------|-----------|----------------------------|
| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
| | SUPPLY AIR GRILLE | | 6" SUPPLY AIR BOOT ABOVE | | 14"x8" RETURN AIR GRILLE | | RETURN AIR STACK ABOVE |
| | SUPPLY AIR GRILLE 6" BOOT | | SUPPLY AIR STACK FROM 2nd FLOOR | | 30"x8" RETURN AIR GRILLE | | RETURN AIR STACK 2nd FLOOR |
| | SUPPLY AIR BOOT ABOVE | | 6" SUPPLY AIR STACK 2nd FLOOR | | FRA- FLOOR RETURN AIR GRILLE | | REDUCER |
| | | | | | | REVISIONS | |
| | | | | | | No. | Date |

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Client
GREENPARK HOMES

Project Name
LECCO RIDGE
MILTON, ONTARIO

IVY 11 2256 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.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.

Sheet Title
SECOND FLOOR
HEATING
LAYOUT

Date
JAN/2017

Scale
3/16" = 1'-0"

BCIN# 19669

LO# 71719