Schedule 1: Designer Information

Use one form for each individual who reviews and takes responsibility for design activities with respect to the project.

| A. Pro | ject Information | | | | | |
|----------------------------|--|--------------------------|---|---------------------------------------|-----------------------------|--------------------|
| | number, street name | | | | Unit no. | Lot/con. |
| Municipa | ality | Postal code | Plan number/ other d | escription | | |
| BRAMPT | • | r ostal code | r lait fluifibel/ offier u | escription | | |
| | | lea mananaihilite | for decima sativities | | | |
| Name | vidual who reviews and ta | kes responsibility | Firm | | | |
| | EL O'ROURKE | | HVAC DESIGNS LTI |) | | |
| Street a | | | III/IO DEGIGINO ETI | Unit no. | | Lot/con. |
| 375 FIN | LEY AVE | | | 202 | | N/A |
| Municipa | ality | Postal code | Province | E-mail | | • |
| AJAX | | L1S 2E2 | ONTARIO | info@hvacdesi | gns.ca | |
| • | ne number | Fax number | | Cell number | | |
| (905) 61 | 19-2300 | (905) 619-2375 | i | () | | |
| C. Desi | gn activities undertaken b | y individual identif | ied in Section B. [Bu | ilding Code Tabl | e 3.5.2.1 OF | Division C] |
| □ Но | use | ⊠ HVA | C – House | ПЕ | Building Stru | ıctural |
| | nall Buildings | | ng Services | | Plumbing – F | |
| | rge Buildings | | ction, Lighting and P | | Plumbing – A | |
| | mplex Buildings ion of designer's work | ☐ Fire F | Protection | | On-site Sewa | age Systems |
| DUCT S RESIDE RESIDE | OSS / GAIN CALCULATIONS IZING NTIAL MECHANICAL VENTIL NTIAL SYSTEM DESIGN per laration of Designer | | IProjec | et: ER RIDGE ESTATES I | INC. | |
| | | _ | | | | |
| ' | MICHAEL O'ROURK | (print name) | | declare tha | at (choose one | as appropriate): |
| | I review and take responsib Division C, of the Building C classes/categories. Individual BCIN: | | | | ction 3.2.4.of appropria | ate |
| | Firm BCIN: | | | · · · · · · · · · · · · · · · · · · · | | |
| X | I review and take responsib designer" under subsection | | am qualified in the appr sion C, of the Building Co | | an "other | |
| | Individual BCIN: | 19669 | | | | |
| | Basis for exemp | tion from registration a | and qualification: | O.B.C SENT | ENCE 3.2.4 | 1.1 (4) |
| | The design work is exempt Basis for exemption from re | | ation and qualification re ation: | quirements of the B | uilding Code. | |
| I certify | that: | | | | | |
| | The information contain I have submitted this ap | | edule is true to the best o wledge and consent of th | ne firm. | / | 7. |
| | April 25, 2022 | | | Michan | Okouns | Le. |
| | Date | | | | Signature o | f Designer |
| | Date | | | | Signature 0 | 1 Designer |
| | | | | | | |

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 qualification under Subsections 3.2.4. and 3.2.5. of Division C.

^{2.} Schedule 1 is not required to be completed by a holder of a license, temporary license, or a certificate of authorization, issued by the Ontario Association of Architects. Schedule 1 is also not required to be completed by a holder of a license to practise, a limited license to practise, or a certificate of authorization, issued by the Association of Professional Engineers of Ontario.



| SITE NAME: S | SUMME | R RIDGI | ESTA | TES INC | : . | | | | | | | | | | | | | DATE: | Apr-22 | | | ٧ | WINTER | R NATURAL AIR CH | ANGE RATE 0.282 | HEAT LOSS | ΔT °F. 74 | | CSA-F280 |
|---|-------|---------|-------|---------|------------|--------------|-------|-------|----------|-------|------|------|-------|------|------|-------|------|-------|--------|------|------|------|--------|------------------|-----------------|-----------|-----------|-------|-------------|
| BUILDER: R | ROYAL | PINE H | IOMES | i | | | | TYPE: | 2501 | | | | | GFA: | 1905 | | | LO# | 95317 | | | S | UMMER | R NATURAL AIR CH | ANGE RATE 0.088 | HEAT GAIN | ΔT °F. 11 | SB-12 | 2 PERFORMAN |
| ROOM USE | | | | MBR | | | ENS | | | | | E | BED-2 | | | BED-3 | | | | | | BATH | | | | | | | |
| EXP. WALL | | | | 31 | | | 7 | | | | | | 29 | | | 10 | | | | | | 8 | | | | | | | |
| CLG. HT. | | | | 9 | | | 9 | | | | | | 9 | | | 9 | | | | | | 9 | | | | | | | |
| F | FACTO | RS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GRS.WALL AREA | LOSS | GAIN | | 279 | | | 63 | | | | | | 261 | | | 90 | | | | | | 72 | | | | | | | |
| GLAZING | | | | LOSS | GAIN | | LOSS | GAIN | | | | L | oss | GAIN | | LOSS | GAIN | | | | | LOSS | GAIN | | | | | | |
| NORTH | 20.8 | 15.5 | 0 | 0 | 0 | 0 | 0 | 0 | | | | 0 | 0 | 0 | 0 | 0 | 0 | | | | 0 | 0 | 0 | | | | | | |
| | 20.8 | 41.0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | 44 | 914 | 1806 | 70 | 1454 | 2873 | | | | 0 | 0 | 0 | | | | | | |
| SOUTH | 20.8 | 24.4 | 0 | 0 | 0 | 0 | 0 | 0 | | | | 0 | 0 | 0 | 0 | 0 | 0 | | | | 0 | 0 | 0 | | | | | | |
| | 20.8 | 41.0 | 26 | 540 | 1067 | 17 | 353 | 698 | | | | 0 | 0 | 0 | 0 | 0 | 0 | | | | 0 | 0 | 0 | | | | | | |
| SKYLT. | 34.1 | 100.3 | 0 | 0 | 0 | 0 | 0 | 0 | | | | 0 | 0 | 0 | 0 | 0 | 0 | | | | 0 | 0 | 0 | | | | | | |
| | 19.6 | 2.9 | 0 | 0 | 0 | 0 | 0 | 0 | | | | 0 | 0 | 0 | 0 | 0 | 0 | | | | 0 | 0 | 0 | | | | | | |
| | 3.5 | 0.5 | 253 | 877 | 130 | 46 | 159 | 24 | | | | | 752 | 112 | 20 | 69 | 10 | | | | 72 | 250 | 37 | | | | | | |
| NET EXPOSED BSMT WALL ABOVE GR | 3.5 | 0.5 | 0 | 0 | 0 | 0 | 0 | 0 | | | | 0 | 0 | 0 | 0 | 0 | 0 | | | | 0 | 0 | 0 | | | | | | |
| | 1.3 | 0.6 | 326 | 408 | 182 | 107 | 134 | 60 | | | | | 219 | 98 | 136 | 170 | 76 | | | | 80 | 100 | 45 | | | | | | |
| | 2.7 | 1.2 | 0 | 0 | 0 | 0 | 0 | 0 | | | | 45 | 121 | 54 | 45 | 121 | 54 | | | | 0 | 0 | 0 | | | | | | |
| | 2.5 | 0.4 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | 261 | 39 | 0 | 0 | 0 | | | | 70 | 174 | 26 | | | | | | |
| BASEMENT/CRAWL HEAT LOSS | | | - | 0 | - | - | 0 | - | | | | | 0 | | - | 0 | - | | | | | 0 | | | | | | | |
| SLAB ON GRADE HEAT LOSS | | | | 0 | | | 0 | | | | | | 0 | | | 0 | | | | | | 0 | | | | | | | |
| SUBTOTAL HT LOSS | | | | 1826 | | | 647 | | | | | | 2268 | | | 1815 | | | | | | 524 | | | | | | | |
| SUB TOTAL HT GAIN | | | | .0_0 | 1379 | | • | 781 | | | | | | 2108 | | | 3013 | | | | | ·-· | 107 | | | | | | |
| LEVEL FACTOR / MULTIPLIER | | | 0.20 | 0.26 | | 0.20 | 0.26 | | | | | 0.20 | 0.26 | | 0.20 | 0.26 | | | | | 0.20 | 0.26 | | | | | | | |
| AIR CHANGE HEAT LOSS | | | J | 476 | | J. _J | 169 | | | | | | 592 | | | 474 | | | | | J0 | 137 | | | | | | | |
| AIR CHANGE HEAT GAIN | | | | | 68 | | | 39 | | | | | | 105 | | | 150 | | | | | | 5 | | | | | | |
| DUCT LOSS | | | | 0 | 00 | | 0 | 33 | | | | | 286 | 103 | | 0 | 130 | | | | | 66 | 3 | | | | | | |
| DUCT GAIN | | | | Ü | 0 | | U | 0 | | | | | 200 | 295 | | Ü | 0 | | | | | 00 | 11 | | | | | | |
| | 240 | | 2 | | 480 | 0 | | 0 | | | | 1 | | 240 | 1 | | 240 | | | | 0 | | 0 | | | | | | |
| HEAT GAIN PEOPLE HEAT GAIN APPLIANCES/LIGHTS | 240 | | - | | 501 | ٠ | | 0 | | | | • | | 501 | ' | | 501 | | | | U | | 0 | | | | | | |
| TOTAL HT LOSS BTU/H | | | | 2302 | 301 | | 816 | ٠ | | | | | 3146 | 301 | | 2288 | 301 | | | | | 727 | · | | | | | | |
| TOTAL HT GAIN x 1.3 BTU/H | | | | 2302 | 3157 | | 010 | 1066 | | | | | | 4224 | | 2200 | 5075 | | | | | 121 | 161 | | | | | | |
| TOTAL III GAIN X 1.5 BTO/II | | | | | 3131 | | | 1000 | <u> </u> | | | | | 4224 | | | 3073 | | | | | | 101 | | | | | | |
| ROOM USE | | | | | | | LV/DN | | | K/B/F | | | | | | LAUN | | | PWD | | | FOY | | | | | | | BAS |
| EXP. WALL | | | | | | | 35 | | | 38 | | | | | | 7 | | | 4 | | | 10 | | | | | | | 92 |
| CLG. HT. | | | | | | | 10 | | | 10 | | | | | | 9 | | | 11 | | | 11 | | | | | | | 9 |
| F | FACTO | RS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GRS.WALL AREA L | LOSS | GAIN | | | | | 350 | | | 380 | | | | | | 63 | | | 44 | | | 110 | | | | | | | 552 |
| GLAZING | | | | | | | LOSS | GAIN | | LOSS | GAIN | | | | | LOSS | GAIN | | LOSS | GAIN | | LOSS | GAIN | | | | | | LOSS G |
| NORTH | 20.8 | 15.5 | | | | 0 | 0 | 0 | 0 | 0 | 0 | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | 0 0 |
| EAST | 20.8 | 41.0 | | | | 34 | 706 | 1396 | 0 | 0 | 0 | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | 0 0 |
| SOUTH | 20.8 | 24.4 | | | | 0 | 0 | 0 | 0 | 0 | 0 | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | 0 0 |
| WEST | 20.8 | 41.0 | | | | 0 | 0 | 0 | 73 | 1517 | 2997 | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | 6 125 2 |
| | | 100.3 | | | | 0 | 0 | 0 | 0 | 0 | 0 | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | 0 0 |
| | 19.6 | 2.9 | | | | 20 | 392 | 58 | 0 | 0 | 0 | | | | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 392 | 58 | | | | | : | 20 392 |
| | 3.5 | 0.5 | | | | 296 | 1026 | 152 | 307 | 1064 | 158 | | | | 63 | 218 | 32 | 44 | 153 | 23 | 90 | 312 | 46 | | | | | | 0 0 |
| | 3.5 | 0.5 | | | | 0 | 0 | 0 | 0 | 0 | 0 | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | 2 | 276 970 1 |
| | 1.3 | 0.6 | | | | 0 | 0 | 0 | 42 | 53 | 23 | | | | 75 | 94 | 42 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | 0 0 |
| | 2.7 | 1.2 | | | | 0 | 0 | 0 | 0 | 0 | 0 | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | 0 0 |
| | 2.5 | 0.4 | | | | 0 | 0 | 0 | 0 | 0 | 0 | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | 0 0 |
| BASEMENT/CRAWL HEAT LOSS | | | | | | | 0 | | 1 | 0 | | | | | | 0 | | | 0 | | | 0 | | | j J | | | | 3062 |
| SLAB ON GRADE HEAT LOSS | | | | | | | 0 | | | 0 | | | | | | 0 | | | 0 | | | 0 | | | | | | | |
| SUBTOTAL HT LOSS | | | | | | | 2124 | | | 2634 | | | | | | 312 | | | 153 | | | 704 | | | | | | | 4548 |
| SUB TOTAL HT GAIN | | | | | | | | 1606 | | | 3178 | | | | | | 74 | | | 23 | | | 104 | | | | | | 4 |
| LEVEL FACTOR / MULTIPLIER | | | | | | 0.30 | 0.52 | | 0.30 | 0.52 | | | | | 0.20 | 0.26 | | 0.30 | 0.52 | | 0.30 | | | | | | | 0 | 0.50 1.06 |
| | | | | | | | 1095 | | 1 | 1357 | | | | | | 82 | | | 79 | | | 363 | | | | | | | 4823 |
| AIR CHANGE HEAT LOSS | | | | | | | | 80 | 1 | | 158 | | | | | | 4 | | | 1 | | | 5 | | j J | | | | 1 |
| AIR CHANGE HEAT GAIN | | | | | | | | | 1 | • | | | | | | 0 | | | 0 | | | 0 | | | 1 | | | | |
| AIR CHANGE HEAT GAIN DUCT LOSS | | | | | | | 0 | | | 0 | | | | | | | | | | | | | | | | | | | U |
| AIR CHANGE HEAT GAIN | | | | | | | 0 | 0 | | U | 0 | | | | | | 0 | | | 0 | | | 0 | | | | | | Ü |
| AIR CHANGE HEAT GAIN DUCT LOSS DUCT GAIN HEAT GAIN PEOPLE | 240 | | | | | 0 | 0 | 0 | 0 | U | 0 | | | | 0 | | 0 | 0 | | 0 | 0 | | 0 | | | | | | 0 |
| AIR CHANGE HEAT GAIN DUCT LOSS DUCT GAIN HEAT GAIN PEOPLE HEAT GAIN APPLIANCES/LIGHTS | 240 | | | | | 0 | 0 | | 0 | U | | | | | 0 | | | 0 | | - | 0 | | | | | | | | |
| AIR CHANGE HEAT GAIN DUCT LOSS DUCT GAIN HEAT GAIN PEOPLE | 240 | | | | | | 3219 | 0 | 0 | 3991 | 0 | | | | 0 | 394 | 0 | 0 | 231 | 0 | 0 | 1066 | 0 | | | | | | 0 |

STRUCTURAL HEAT LOSS: 27552 TOTAL HEAT GAIN BTU/H: 23892 TONS: 1.99 LOSS DUE TO VENTILATION LOAD BTU/H: 1274 TOTAL COMBINED HEAT LOSS BTU/H: 28826

Mehal Oxombe.

В



TRUNK

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С

С

В

В

С

SITE NAME: SUMMER RIDGE ESTATES INC. **BUILDER: ROYAL PINE HOMES** TYPE: 2501 DATE: Apr-22 GFA: 1905 LO# 95317 furnace pressure 0.6 HEATING CFM 710 COOLING CFM 710 furnace filter 0.05 **#CARRIER** AFUE = 97 % 59SP5A-40-10 INPUT (BTU/H) = 40,000 TOTAL HEAT LOSS 27,552 TOTAL HEAT GAIN 23,703 a/c coil pressure 0.2 40 AIR FLOW RATE CFM 25.77 AIR FLOW RATE CFM 29.95 OUTPUT (BTU/H) = 39.000 available pressure FAN SPEED for s/a & r/a 0.35 LOW 0 DESIGN CFM = 710 CFM @ .6 " E.S.P. **RUN COUNT** MEDLOW 4th 3rd 2nd 1st Bas 0 S/A 3 plenum pressure s/a 0.18 r/a pressure 0.17 MEDIUM 0 0 R/A 0 0 4 max s/a dif press. loss 0.02 r/a grille press. Loss 0.02 MEDIUM HIGH 710 All S/A diffusers 4"x10" unless noted otherwise on layout. min adjusted pressure s/a 0.16 adjusted pressure r/a 0.15 HIGH TEMPERATURE RISE 51 All S/A runs 5"Ø unless noted otherwise on layout 10 14 15 17 18 19 22 23 RUN# 5 6 13 21 ROOM NAME MBR ENS BED-2 BED-3 BED-3 BATH MBR LV/DN K/B/F K/B/F LAUN PWD FOY BAS BAS BAS RM LOSS MBH 0.82 0.73 3.12 1.15 1.57 1.57 1.14 1.14 1.15 3.22 2.00 2.00 0.39 0.23 1.07 3.12 3.12 CFM PER RUN HEAT 21 41 41 29 30 30 29 19 83 51 51 10 6 27 80 80 80 RM GAIN MBH 1.58 1.07 2.11 2.11 2.54 2.54 0.16 1.58 2.84 2.49 2.49 0.75 0.03 0.14 0.42 0.42 0.42 CFM PER RUN COOLING 47 85 75 75 47 32 63 63 76 76 5 23 4 13 13 13 1 ADJUSTED PRESSURE 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.16 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 ACTUAL DUCT LGH 35 48 52 63 55 37 37 48 28 37 22 32 31 15 21 7 **EQUIVALENT LENGTH** 200 160 130 140 190 170 140 180 140 100 110 160 140 130 100 110 150 TOTAL EFFECTIVE LENGTH 231 195 178 192 253 225 177 217 188 115 138 181 147 167 122 117 182 ADJUSTED PRESSURE 0.07 0.09 0.1 0.09 0.07 0.08 0.1 0.08 0.09 0.15 0.12 0.1 0.12 0.1 0.14 0.15 0.09 ROUND DUCT SIZE 5 5 6 5 5 5 HEATING VELOCITY (ft/min 587 220 241 301 301 148 148 218 220 423 374 374 115 69 310 587 587 COOLING VELOCITY (ft/min 345 367 463 463 388 388 57 345 433 551 551 264 11 46 95 95 95 **OUTLET GRILL SIZE** 3X10 3X10 3X10 3X10 3X10 3X10 3X10 4X10 4X10 3X10 4X10 3X10 3X10 3X10 3X10 3X10 3X10

| | 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 |
| l | TRUNK |

В

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В

С

| SUPPLY AIR TRUNK SIZE | | | | | | | | | | | | | | | | | RETURN A | IR TRUN | K SIZE | | | | | |
|-----------------------|-------|--------|-------|------|------|------|----------|-------|---------|-------|--------|-------|-------|-------|-------|----------|----------|---------|--------|-------|------|---|----|----------|
| | TRUNK | STATIC | ROUND | RECT | | | VELOCITY | | | TRUNK | STATIC | ROUND | RECT | | | VELOCITY | | TRUNK | STATIC | ROUND | RECT | | | VELOCITY |
| | CFM | PRESS. | DUCT | DUCT | | | (ft/min) | | | CFM | PRESS. | DUCT | DUCT | | | (ft/min) | | CFM | PRESS. | DUCT | DUCT | | | (ft/min) |
| TRUNK A | 262 | 0.12 | 7.7 | 8 | X | 8 | 590 | | TRUNK G | 0 | 0.00 | 0 | 0 | х | 8 | 0 | TRUNK O | 0 | 0.05 | 0 | 0 | х | 8 | 0 |
| TRUNK B | 248 | 0.07 | 8.6 | 8 | Х | 8 | 558 | | TRUNK H | 0 | 0.00 | 0 | 0 | Х | 8 | 0 | TRUNK P | 0 | 0.05 | 0 | 0 | Х | 8 | 0 |
| TRUNK C | 446 | 0.07 | 10.7 | 14 | Х | 8 | 573 | | TRUNK I | 0 | 0.00 | 0 | 0 | Х | 8 | 0 | TRUNK Q | 0 | 0.05 | 0 | 0 | Х | 8 | 0 |
| TRUNK D | 0 | 0.00 | 0 | 0 | X | 8 | 0 | | TRUNK J | 0 | 0.00 | 0 | 0 | х | 8 | 0 | TRUNK R | 0 | 0.05 | 0 | 0 | х | 8 | 0 |
| TRUNK E | 0 | 0.00 | 0 | 0 | Х | 8 | 0 | | TRUNK K | 0 | 0.00 | 0 | 0 | Х | 8 | 0 | TRUNK S | 0 | 0.05 | 0 | 0 | Х | 8 | 0 |
| TRUNK F | 0 | 0.00 | 0 | 0 | X | 8 | 0 | | TRUNK L | 0 | 0.00 | 0 | 0 | х | 8 | 0 | TRUNK T | 0 | 0.05 | 0 | 0 | х | 8 | 0 |
| | | | | | | | | | | | | | | | | | TRUNK U | 0 | 0.05 | 0 | 0 | Х | 8 | 0 |
| | | | | | | | | | | | | | | | | | TRUNK V | 0 | 0.05 | 0 | 0 | х | 8 | 0 |
| RETURN AIR # | 1 | 2 | 3 | 4 | 5 | 6 | | | | | | | | | | BR | TRUNK W | 0 | 0.05 | 0 | 0 | х | 8 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | TRUNK X | 710 | 0.05 | 13.9 | 22 | Х | 8 | 581 |
| AIR VOLUME | 85 | 75 | 75 | 85 | 205 | 75 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 110 | TRUNK Y | 420 | 0.05 | 11.4 | 16 | Х | 8 | 473 |
| 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 | TRUNK Z | 0 | 0.05 | 0 | 0 | х | 8 | 0 |
| ACTUAL DUCT LGH. | 39 | 64 | 57 | 47 | 21 | 40 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 14 | DROP | 710 | 0.05 | 13.9 | 24 | Х | 10 | 426 |
| EQUIVALENT LENGTH | 195 | 260 | 245 | 215 | 135 | 270 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 135 | | | | | | | | |
| TOTAL EFFECTIVE LH | 234 | 324 | 302 | 262 | 156 | 310 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 149 | | | | | | | | |
| ADJUSTED PRESSURE | 0.06 | 0.05 | 0.05 | 0.06 | 0.09 | 0.05 | 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 | 6 | 7.5 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5.8 | | | | | | | | |
| INLET GRILL SIZE | 8 | 8 | 8 | 8 | 8 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | | | | | | | | |
| | X | X | X | X | X | Х | Χ | Х | 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 | 1 | | | | | | | |



TYPE: 2501 LO# 95317

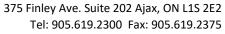
SITE NAME:

SUMMER RIDGE ESTATES INC. RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

| COMBUSTION APPLIANCES | 9.32.3.1(1) | SUPPLEMENTAL VENTILATION CAPACI | TY | 9.32.3.5. |
|---|-----------------|---|-----------------------------|------------------|
| a) | | Total Ventilation Capacity | 159 | cfm |
| b) Positive venting induced draft (except fireplaces) | | Less Principal Ventil. Capacity | 63.6 | cfm |
| c) Natural draft, B-vent or induced draft gas fireplace | | Required Supplemental Capacity | 95.4 | cfm |
| d) Solid Fuel (including fireplaces) | | | | |
| e) No Combustion Appliances | | PRINCIPAL EXHAUST FAN CAPACITY Model: VANEE V150H | Location: | BSMT |
| HEATING SYSTEM | | 63.6 cfm | Ecodulon. | ✓ HVI Approved |
| ✓ Forced Air Non Forced Air | | PRINCIPAL EXHAUST HEAT LOSS CALC | CULATION | |
| | | CFM ΔT °F 63.6 CFM X 74 F | FACTOR X 1.08 | % LOSS X 0.25 |
| Electric Space Heat | | SUPPLEMENTAL FANS | | |
| | | Location Model | BY INSTALLING CON | HVI Sones |
| HOUSE TYPE | 9.32.1(2) | ENS BY INSTALLING CONT BATH BY INSTALLING CONT | | ✓ 3.5 ✓ 3.5 |
| ✓ I Type a) or b) appliance only, no solid fuel | | BATH BY INSTALLING CONT | RACION 50 | √ 3.5 |
| II Type I except with solid fuel (including fireplaces | , | PWD BY INSTALLING CONT | TRACTOR 50 | ✓ 3.5 |
| Type rexcept with solid fuel (including ineplaces | , | HEAT RECOVERY VENTILATOR | | 9.32.3.11. |
| III Any Type c) appliance | | Model: VANEE V150 150 cfm high | OH 35 | cfm low |
| IV Type I, or II with electric space heat | | 130 CiliTiigii | | CIII low |
| Other: Type I, II or IV no forced air | | 75 % Sensible Effic @ 32 deg F (0 c | | ✓ HVI Approved |
| | | LOCATION OF INSTALLATION | | |
| SYSTEM DESIGN OPTIONS | O.N.H.W.P. | | 0 | |
| 1 Exhaust only/Forced Air System | | Lot: | Concession | |
| O LIDV with Dusting (Farmed Air County) | | Township | Plan: | |
| 2 HRV with Ducting/Forced Air System | | Address | | |
| HRV Simplified/connected to forced air system | | Roll # | Building Perr | nit# |
| 4 HRV with Ducting/non forced air system | | BUILDER: ROYAL PINE H | IOMES | |
| Part 6 Design | | Name: | | |
| TOTAL VENTILATION CAPACITY | 9.32.3.3(1) | Address: | | |
| Basement + Master Bedroom 2 @ 21.2 cfm 42.4 | cfm | City: | | |
| Other Bedrooms 2 @ 10.6 cfm 21.2 | cfm | Telephone #: | Fax#: | |
| Kitchen & Bathrooms 4 @ 10.6 cfm 42.4 | cfm | INSTALLING CONTRACTOR | | |
| Other Rooms <u>5</u> @ 10.6 cfm <u>53.0</u> | cfm | Name: | | |
| Table 9.32.3.A. TOTAL <u>159.0</u> | cfm | Address: | | |
| | | City: | | |
| PRINCIPAL VENTILATION CAPACITY REQUIRED | 9.32.3.4.(1) | Telephone #: | Fax#: | |
| 1 Bedroom 31.8 | cfm | | 1 dx #. | |
| 2 Bedroom 47.7 | cfm | DESIGNER CERTIFICATION I hereby certify that this ventilation system I | • | |
| 3 Bedroom 63.6 | cfm | in accordance with the Ontario Building Co- Name: HVAC Designs | | |
| 4 Bedroom 79.5 | cfm | Signature: | Mehad Ofounds | ٠. |
| 5 Bedroom 95.4 | cfm | HRAI# | 001820 | |
| TOTAL 63.6 cfm | | Date: | April-22 | |
| I REVIEW AND TAKE RESPONIBILITY FOR THE DESIGN WORK AND AM QUAL | IFIED IN THE AP | PROPRIATE CATEGORY AS AN "OTHER DESIGNER" UNDER | DIVISION C, 3.2.5 OF THE BU | ILDING CODE. |



| | | | | 80-12 Residential Hea | | | | | | |
|---------------|------------------|---|--------------------------|---|-------------------------------|---------------------------|---------------------------------------|------------------|--------------|------------|
| | | | Form | ıula Sheet (For Air Lea | ikage / Ventiliation C | alculation) | | | | |
| LO#: 95 | 317 | Model: 2501 | | Builde | r: ROYAL PINE HOMES | SUMMER RIDGE ESTATES IN | C. | | Date: | 2022-04-25 |
| | | Volume Calculation | n | | | | Air Change & Delt | a T Data | | |
| | | | | 1 | | | | | | |
| use Volume | -1 . (6.2) | T =1 | 1 (6.3) | 1 | | | TURAL AIR CHANG | | 0.282 | |
| Level | Floor Area (ft²) | Floor Height (ft) | Volume (ft³) | - | | SUMMER NA | ATURAL AIR CHANG | E RATE | 0.088 | |
| Bsmt First | 858 858 | 9 10 | 7722 8580 | | | | | | | |
| Second | 1047 | 9 | 9423 | - | | | Design Te | mperature Diff | oronco | |
| Third | 0 | 9 | 0 | - | | | Tin °C | Tout °C | ΔT °C | ΔT °F |
| Fourth | 0 | 9 | 0 | 1 | | Winter DTDh | 22 | -19 | 41 | 74 |
| · ourti | - | Total: | 25,725.0 ft ³ | 1 | | Summer DTDc | 24 | 30 | 6 | 11 |
| | | Total: | 728.5 m³ | | | | 1 | | - | |
| | | • | | • | | | | | | |
| | 5.2.3 | 3.1 Heat Loss due to A | r Leakage | | | 6.2.6 | Sensible Gain due | to Air Leakage | | |
| | | V_{t} | | | | | V. | | | |
| | $HL_{airb} =$ | $LR_{airh} \times \frac{V_b}{3.6} \times I$ | $DTD_h \times 1.2$ | | H | $IG_{salb} = LR_{airc}$ | $\times \frac{v_b}{2.6} \times DTD_c$ | × 1.2 | | |
| 0.282 | | 5.0 | | = 2827 W | = 0.088 | | 5.0 | | _ [| 131 W |
| 0.282 | x <u>202.35</u> | x <u>41 °C</u> | X 1.2 | = 2027 VV | = 0.088 | X 202.33 | _ x <u>6 °C</u> | X | _ = L | 131 W |
| | | | | = 9645 Btu/h | Ţ | | | | = [| 448 Btu/h |
| | | | | 3043 514/11 | 1 | | | | L | 440 5ta/11 |
| | 5.2.3.2 He | at Loss due to Mechar | ical Ventilation | | | 6.2.7 Se | nsible heat Gain d | ue to Ventilatio | n | |
| | | | | | | | | = | | |
| | $HL_{vairb} =$ | $PVC \times DTD_h \times 1$ | $1.08 \times (1-E)$ | | HL | $_{vairb} = PVC \times D$ | $TD_h \times 1.08 \times$ | (1-E) | | |
| 64.0514 | 74.05 | 4.00 | 0.25 | 4074 8: // | | 44.05 | 4.00 | 0.05 | F | 100 5: // |
| 64 CFM | x <u>74 °F</u> | _ x <u>1.08</u> | x <u>0.25</u> | = 1274 Btu/h | 64 CFM | x 11 F | _ x <u>1.08</u> | x <u>0.25</u> | _ = [| 189 Btu/h |
| | | | E 2 2 2 Calcula | tion of Air Change Heat | loss for Each Poom (Fla | or Multiplior Section | \ | | | |
| | | | 3.2.3.3 Calcula | tion of All Change Heat | LOSS TOT LACTI NOOTH (FTO | or waitiplier section, | | | | |
| | | HL_a | $_{irr} = Level Fact$ | $or \times HL_{airbv} \times \{(H_{airbv}) \times \{$ | $(L_{agcr} + HL_{bgcr}) \div$ | $(HL_{agclevel} + HL$ | bgclevel)} | | | |
| | | | 1 | HLairve Air Leakage + | | 1 | | | | |
| | | Level | Level Factor (LF) | Ventilation Heat Loss | Level Conductive Heat | Air Leakage Heat Lo | ss Multiplier (LF x | | | |
| | | | 2010.14010.(2.7 | (Btu/h) | Loss: (HL _{clevel}) | HLairbv / | HLlevel) | | | |
| | | 1 | 0.5 | (Dta/III | 4,548 | 1.06 | 50 | | | |
| | | 2 | 0.3 | 1 | 5,614 | 0.51 | | | | |
| | | 3 | 0.2 | 9,645 | 7,392 | 0.26 | | | | |
| | | 4 | 0 | 1 | 0 | 0.00 | | | Michael O'Ro | urke |
| | | 5 | 0 | 1 | 0 | 0.00 | | | BCIN# 19669 | - |
| | | *HI airby = 1 | ir leakage heat loss | + ventilation heat loss | | | | | | 1 Offmhe |
| | | | | | | | | | | |







HEAT LOSS AND GAIN SUMMARY SHEET

| | | ПЕАТ | LUSS AND GF | AIN SUIVIIVIART SHEET | |
|---------------|----------------------|---------|-------------|--------------------------------|-------------|
| MODEL: | 2501 | | | BUILDER: ROYAL PINE HOME: | S |
| SFQT: | 1905 | LO# | 95317 | SITE: SUMMER RIDGE E | STATES INC. |
| DECICN A | CCLIMADTIONIC | | | | |
| DESIGN A | SSUMPTIONS | | | | |
| HEATING | | | °F | COOLING | °F |
| OUTDOO | R DESIGN TEMP. | | -2 | OUTDOOR DESIGN TEMP. | 86 |
| INDOOR I | DESIGN TEMP. | | 72 | INDOOR DESIGN TEMP. (MAX 75°F) | 75 |
| | | | | WINDOW SHGC | 0.50 |
| BUILDING | G DATA | | | | |
| ATTACHN | MENT: | | ATTACHED | # OF STORIES (+BASEMENT): | 3 |
| FRONT FA | ACES: | | EAST | ASSUMED (Y/N): | Υ |
| AIR CHAN | IGES PER HOUR: | | 3.00 | ASSUMED (Y/N): | Υ |
| 7 till Clibar | IGEST EN TIOON. | | 3.00 | ASSIVIES (TAM). | · |
| AIR TIGHT | TNESS CATEGORY: | | TIGHT | ASSUMED (Y/N): | Υ |
| WIND EXI | POSURE: | | SHELTERED | ASSUMED (Y/N): | Υ |
| HOUSE V | OLUME (ft³): | | 25725.0 | ASSUMED (Y/N): | Υ |
| INTERNAI | L SHADING: | BLINDS | /CURTAINS | ASSUMED OCCUPANTS: | 4 |
| | | | • | | |
| INTERIOR | LIGHTING LOAD (Btu/h | n/ft²): | 1.27 | DC BRUSHLESS MOTOR (Y/N): | Υ |
| FOUNDAT | TION CONFIGURATION | | BCIN_1 | DEPTH BELOW GRADE: | 6.0 ft |
| LENGTH: | 47.0 ft | WIDTH: | 23.0 ft | EXPOSED PERIMETER: | 92.0 ft |

| 2012 OBC - COMPLIANCE PACKAGE | | |
|--|------------|-----------|
| | Compliance | Package |
| Component | SB-12 PERI | ORMANCE |
| | Nominal | Min. Eff. |
| Ceiling with Attic Space Minimum RSI (R)-Value | 60 | 59.22 |
| Ceiling Without Attic Space Minimum RSI (R)-Value | 31 | 27.65 |
| Exposed Floor Minimum RSI (R)-Value | 31 | 29.80 |
| Walls Above Grade Minimum RSI (R)-Value | 22+1.5 | 21.40 |
| Basement Walls Minimum RSI (R)-Value | 20 | 21.12 |
| 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 | 10 |
| Heated Slab or Slab ≤ 600 mm below grade Minimum RSI (R)-Value | 10 | 11.13 |
| Windows and Sliding Glass Doors Maximum U-Value | 1.6 | - |
| Skylights Maximum U-Value | 2.6 | - |
| Space Heating Equipment Minimum AFUE | 96% | - |
| HRV/ERV Minimum Efficiency | 75% | - |
| Domestic Hot Water Heater Minimum EF | 0.9 | - |

INDIVIDUAL BCIN: 19669 MICHAEL O'ROURKE





Residential Foundation Thermal Load Calculator

Supplemental tool for CAN/CSA-F280

| We | eather Sta | tion Description |
|------------------------------|------------|------------------------------------|
| Province: | Ontario | • |
| Region: | Brampto | n |
| | Site D | escription |
| Soil Conductivity: | Normal o | conductivity: dry sand, loam, clay |
| Water Table: | Normal (| 7-10 m, 23-33 ft) |
| | Foundatio | n Dimensions |
| Floor Length (m): | 14.3 | |
| Floor Width (m): | 7.0 | |
| Exposed Perimeter (m): | 28.0 | |
| Wall Height (m): | 2.7 | |
| Depth Below Grade (m): | 1.83 | Insulation Configuration |
| Window Area (m²): | 0.6 | |
| Door Area (m²): | 1.9 | |
| | Radi | ant Slab |
| Heated Fraction of the Slab: | 0 | |
| Fluid Temperature (°C): | 33 | |
| | Desig | n Months |
| Heating Month | 1 | |
| | Founda | tion Loads |
| Heating Load (Watts): | | 897 |

TYPE: 2501 **LO#** 95317





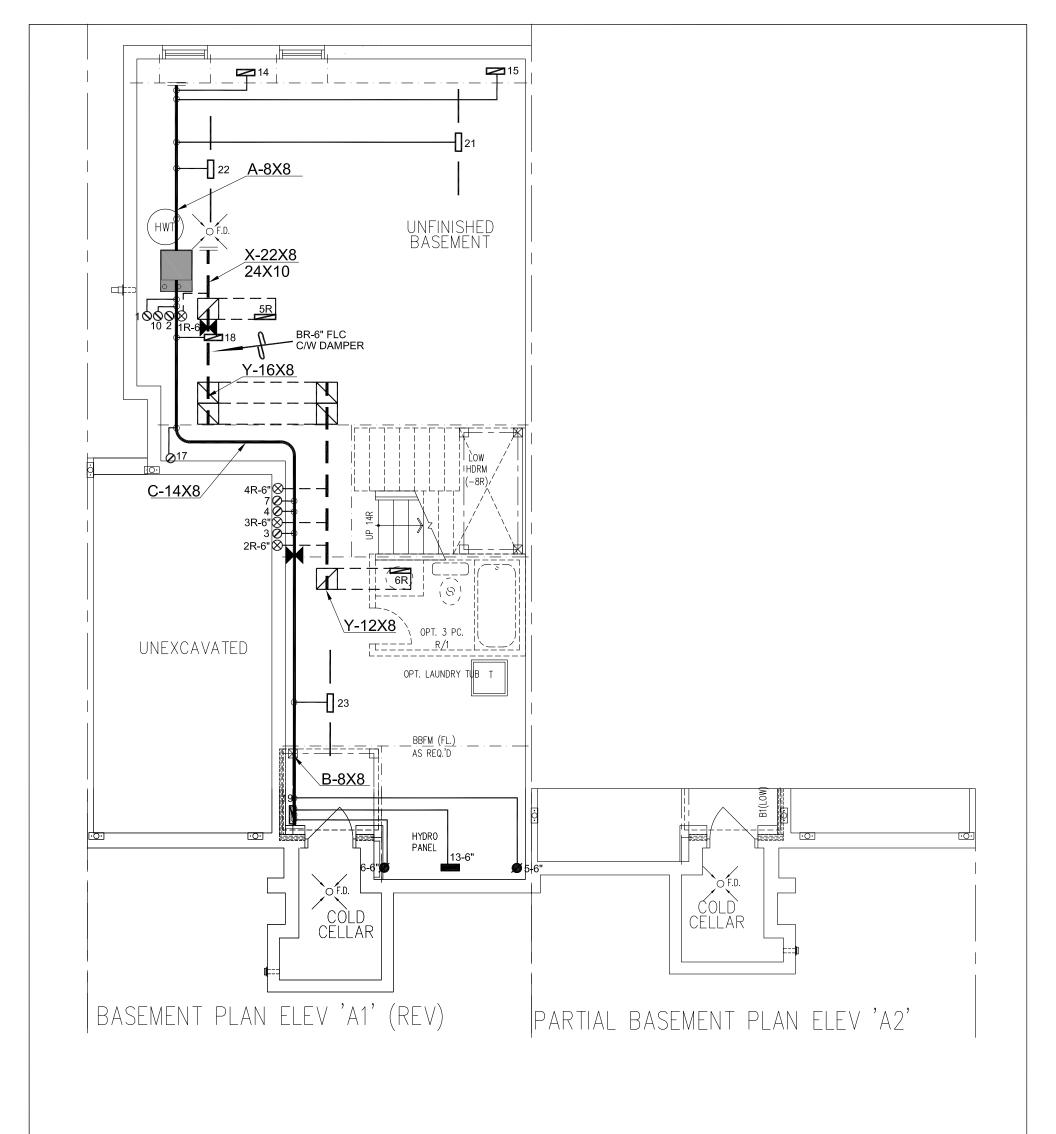
Air Infiltration Residential Load Calculator

Supplemental tool for CAN/CSA-F280

| Weather Sta | tion Des | cript | ion | | |
|---------------------------------|-----------------|---------|----------|---------|-----------------------|
| Province: | Ontai | io | | | |
| Region: | Bram | pton | | | |
| Weather Station Location: | Open | flat te | rrain, g | grass | |
| Anemometer height (m): | 10 | | | | |
| | Shieldin | g | | | |
| Building Site: | Subui | ban, f | orest | | |
| Walls: | Heav | / | | | |
| Flue: | Heav | / | | | |
| Highest Ceiling Height (m): | 6.71 | | | | |
| Building (| Configura | ation | | | |
| Туре: | Semi | | | | |
| Number of Stories: | Two | | | | |
| Foundation: | Full | | | | |
| House Volume (m³): | 728.5 | | | | |
| Air Leakag | ge/Venti | latior | 1 | | |
| Air Tightness Type: | Energ | y Star | Attach | ed (3.0 |) ACH) |
| Custom BDT Data: | ELA @ | 9 10 Pa | Э. | | 816.0 cm ² |
| | 3.00 | | | | ACH @ 50 Pa |
| Mechanical Ventilation (L/s): | To | tal Sup | ply | | Total Exhaust |
| | | 30.0 | | | 30.0 |
| Flu | ıe Size | | | | |
| Flue #: | #1 | #2 | #3 | #4 | |
| Diameter (mm): | 0 | 0 | 0 | 0 | |
| Natural Inf | iltration | Rate | es | | |
| Heating Air Leakage Rate (ACH/H | 1): | (|).28 | 2 | |
| Cooling Air Leakage Rate (ACH/H | I): | (| 0.08 | 8 | |

TYPE: 2501 **LO#** 95317





| | <u> </u> | | | HVAC LE | EGEND | | | 3. | | |
|--------|---------------------------|--------|---------------------------------|---------|------------------------------|--------|----------------------------|-----|-----------------------------|----------|
| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION | 2. | | |
| | SUPPLY AIR GRILLE | | 6" SUPPLY AIR BOOT ABOVE | | 14"x8" RETURN AIR GRILLE | N | RETURN AIR STACK ABOVE | 1. | REVISED TO PERFORMANCE PATH | APR/2022 |
| | 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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ROYAL PINE HOMES

SUMMER RIDGE ESTATES INC BRAMPTON, ONTARIO

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

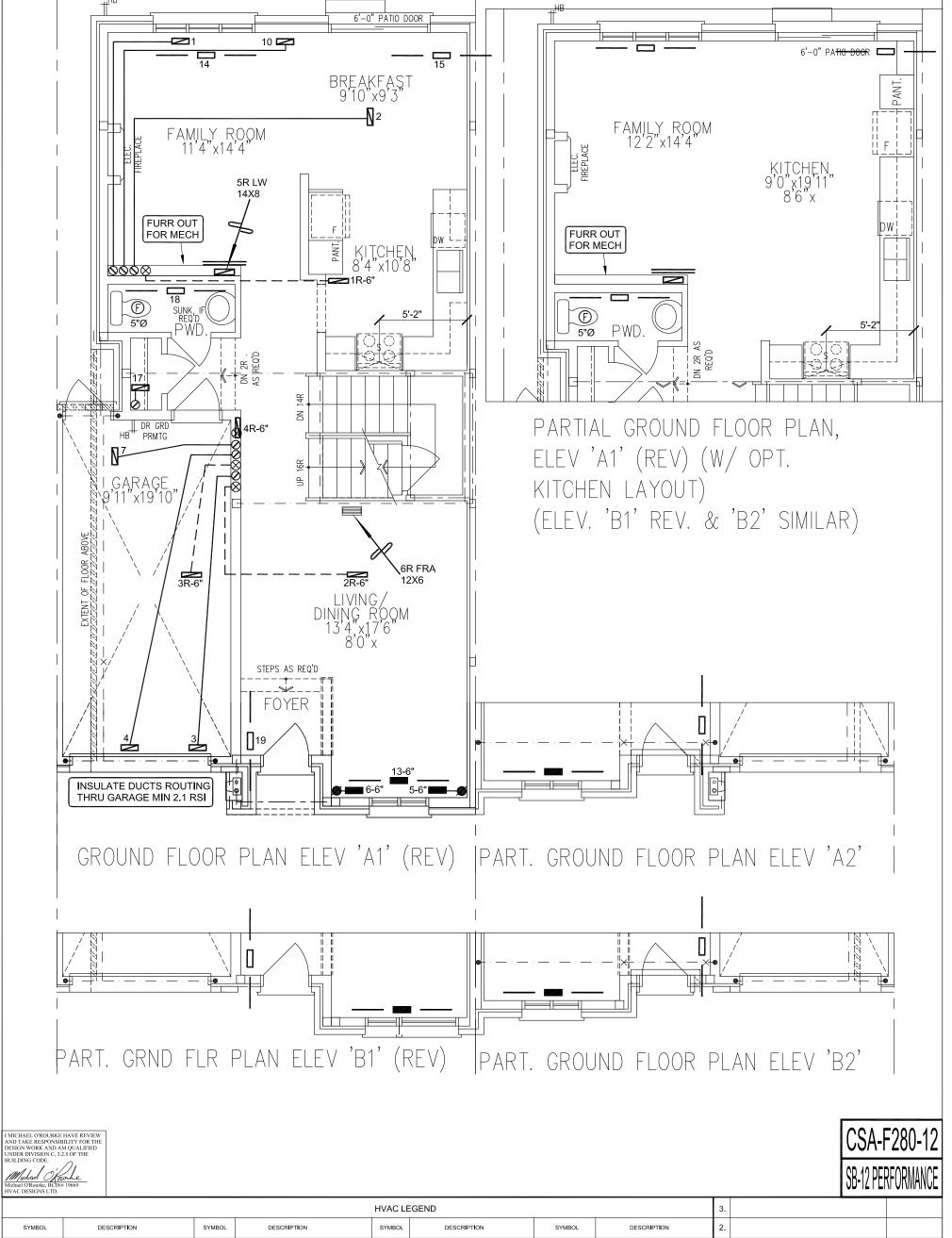
Web: www.hvacdesigns.ca Specializing in Residential Mechanical Design Services

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.

| | HEAT LC | SS 28826 | BTU/H | # OF RUNS | S/A | R/A | FANS | Shee |
|---|-----------|--------------------|--------------------|-------------------------------|-------|--------|------|------|
| | | JN I T DATA | | 3RD FLOOR | | | | |
| | MAKE C | ARRIER | | 2ND FLOOR | 9 | 4 | 3 | |
| | MODEL 595 | SP5A-40-10 | | 1ST FLOOR | 5 | 2 | 2 | |
| | INPUT | 40 | MBTU/H | BASEMENT | 3 | 1 | 0 | Date |
| _ | OUTPUT | 00 | MBTU/H | ALL S/A DIFFU | SERS. | 4 "x10 |)" | Scal |
| | COOLING | 39 | T0110 | UNLESS NOTE ON LAYOUT. A | | | | |
| е | | 2.0 | TONS | UNLESS NOTE | D OTH | IERW | | |
| | FAN SPEED | 710 | cfm @ 0.6" w.c. | ON LAYOUT. U DOORS 1" min. | | | | L |

| IS | BASEMENT | | |
|----|---------------|--------------------|---|
| _ | | | |
| | | | |
| | HEATING | | |
| _ | LAYOUT | | |
| | Data | | - |
| | Date MAR/2022 | | |
| | Scale | 3/16" = 1'-0" | |
| Ø | BCIN# 19669 | | |
| | ΙO | [‡] 95317 | |

2501



SUPPLY AIR GRILLE N 14"x8" RETURN AIR GRILLE REVISED TO PERFORMANCE PATH 6" SUPPLY AIR BOOT ABOVE RETURN AIR STACK ABOVE APR/2022 30"x8" RETURN AIR GRILLE SUPPLY AIR GRILLE 6" BOOT 0 SUPPLY AIR STACK FROM 2nd FLOOR > <No. Description Date RETURN AIR STACK 2nd FLOOR SUPPLY AIR BOOT ABOVE FRA- FLOOR RETURN AIR GRILLE REDUCER **REVISIONS** 0 6" SUPPLY AIR STACK 2nd FLOOR

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ROYAL PINE HOMES

Project Name

SUMMER RIDGE ESTATES INC BRAMPTON, ONTARIO

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Specializing in Residential Mechanical Design Services

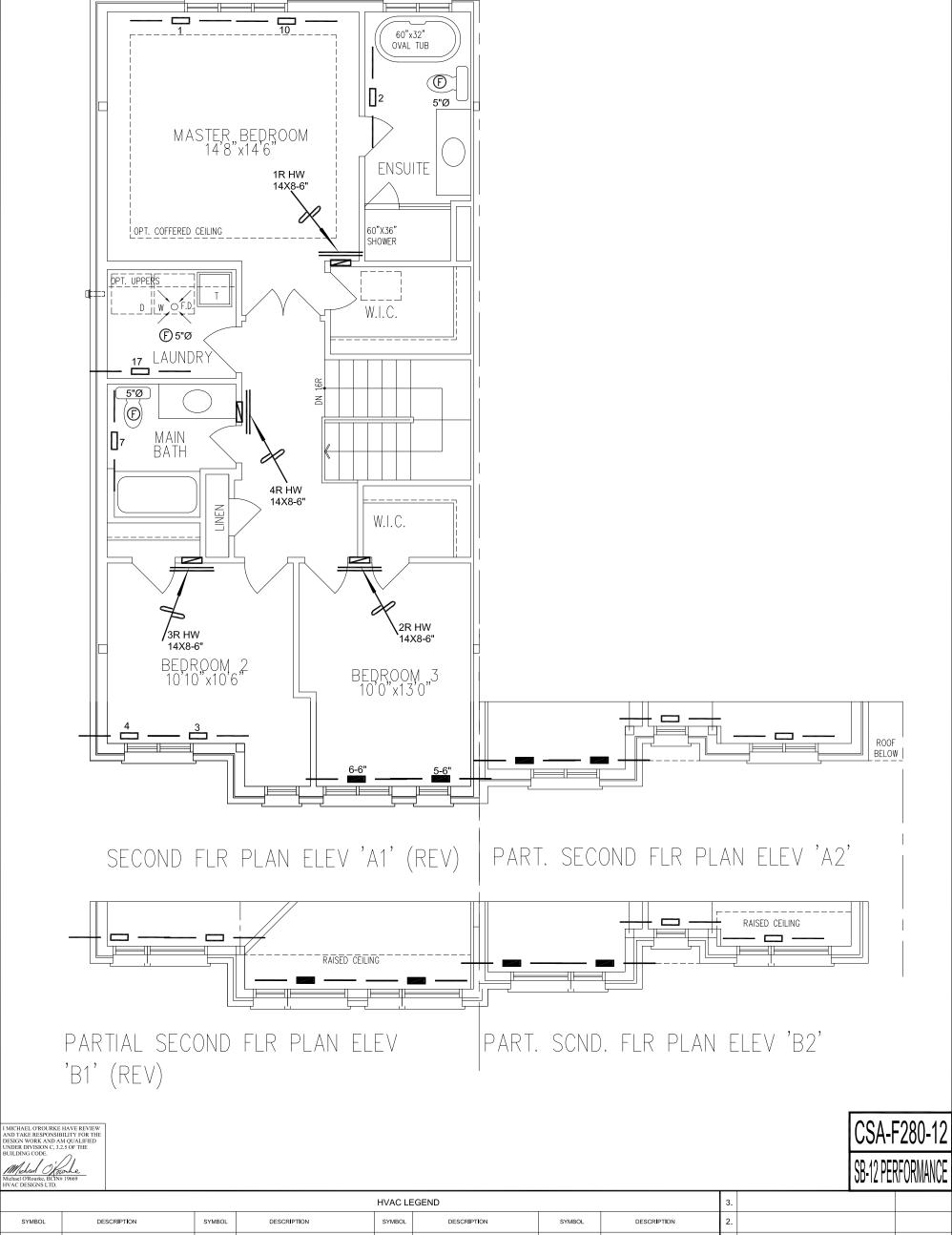
Installation to comply with the latest Ontario Building Code. All supply branch outlets shall be equipped with a manual balancing damper. Ductwork which passes through the garage or unheated spaces shall be adequately insulated and be gas-proofed.

FIRST FLOOR **HEATING** LAYOUT MAR/2022

3/16" = 1'-0" BCIN# 19669 95317

LO#

2501



SUPPLY AIR GRILLE N 14"x8" RETURN AIR GRILLE RETURN AIR STACK ABOVE 6" SUPPLY AIR BOOT ABOVE 1. REVISED TO PERFORMANCE PATH APR/2022 30"x8" RETURN AIR GRILLE SUPPLY AIR GRILLE 6" BOOT 0 SUPPLY AIR STACK FROM 2nd FLOOR > <No. Description Date RETURN AIR STACK 2nd FLOOR FRA- FLOOR RETURN AIR GRILLE SUPPLY AIR BOOT ABOVE REDUCER **REVISIONS** 8 6" SUPPLY AIR STACK 2nd FLOOR

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ROYAL PINE HOMES

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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**

MAR/2022 3/16" = 1'-0" BCIN# 19669

LO#

95317

2501