RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

for design and performance of residential ventilation systems to BCBC 12 - 9.32

RESET

LOCATION

1. Location Township: _____

Civic address: _____

No. of Bedrooms: _____ Outdoor DT: _____

Building Floor Area: _____ Building Vol. : _____

BUILDER

2. Builder Name: _____

Address: _____

Postal Code: _____ City: _____

Ph: _____ Fax: _____

DESIGNER

3. Designer Name: _____

Address: _____

Postal Code: _____ City: _____

Ph: _____ Fax: _____

HRAI #: _____

HEATING SYSTEM

4. Heating System

☐ Forced Air ☐ Non Forced Air ☐ Oil

☐ Electric ☐ Gas ☐ Other

HEATING SYSTEM COMBUSTION APPLIANCES

5. Combustion Appliances

☐ Direct or Power Vent (Non-NAFFVA)

☐ Vented by Thermal Buoyancy Chimney

- ☐ Located in air-barriered room (Non-NAFFVA)
- ☐ Located where accessible from within the house (NAFFVA)

0.5 ACH (cfm) = 0.5 × Bldg Volume (ft^3) ÷ 60

= 0.5 × _____ ft^3 ÷ 60 = _____ cfm

☐ No Combustion Appliances

SYSTEM DESIGN OPTION

6. System Design Option

- ☐ A Ducted forced-air heating system with outdoor inlet without HRV
- ☐ B Ducted forced-air heating system coupled with HRV
- ☐ C HRV ventilation system with dedicated ducting
- ☐ D Ducted central-recirculation ventilation system
- ☐ E Passive vent principal ventilation system
- ☐ F Ventilation system complying with CSA F-326

PRINCIPAL VENT EXHAUST FAN

7. Principal Ventilation Exhaust Fan 9.32.3.5

Principal Ventilaion Exhaust Fan Min Air-Flow: _____ CFM

Location: _____ Sones: _____

Manufacturer / Model: _____

Design Airflow: _____ CFM @ _____ in. w.c.

BATH FAN

8. Bath Fan 9.32.3.6

Location: _____

Manufacturer / Model: _____

Design Airflow: _____ CFM @ _____ in. w.c.

(Make-up fan required if airflow > 0.5 ACH and NAFFVA appliance is present)

BATH MAKE-UP AIR

9. Bath Make-up Air Fan 9.32.4.1

☐ Required ☐ Not Required

Location: _____

Manufacturer / Model: _____

Design Airflow: _____ CFM @ _____ in. w.c.

KITCHEN FAN

10. Kitchen Fan 9.32.3.6

Location: _____

Manufacturer / Model: _____

Design Airflow: _____ CFM @ _____ in. w.c.

(Make-up fan required if airflow > 0.5 ACH and NAFFVA appliance is present)

KITCHEN MAKE-UP AIR

11. Kitchen Make-up Air Fan 9.32.4.1

☐ Required ☐ Not Required

Location: _____

Manufacturer / Model: _____

Design Airflow: _____ CFM @ _____ in. w.c.

OTHER EXHAUST DEVICES & ASSOCIATED MAKE-UP AIR

12. Other Exhaust Devices & Associated Make-up Air

Exhaust Device: _____ Location: _____

Device Airflow: _____ CFM @ _____ in. w.c.

Make-up fan manufac./model: _____

Make-up air fan location: _____

Make-up Airflow _____ CFM @ _____ in. w.c.

(Make-up fan required if airflow > 0.5 ACH and NAFFVA appliance is present)

Exhaust Device: _____ Location: _____

Device Airflow: _____ CFM @ _____ in. w.c.

Make-up fan manufac./model: _____

Make-up air fan location: _____

Make-up Airflow _____ CFM @ _____ in. w.c.

(Make-up fan required if airflow > 0.5 ACH and NAFFVA appliance is present)

HEATED CRAWLSPACE VENTIATION OPTION

13. Heated Crawlspace Ventilation (select one that applies)

<u>If heated by a ducted forced air heating:</u>

☐ Has one air-transfer grill to the space above, and the return air is NOT drawn from the crawlspace

<u>If heated OTHER THAN by a ducted forced air heating:</u>

☐ Has one air-transfer grill to the space above, and a supply duct or exh inlet connected to principal vent system

☐ Has two air-transfer grilles to above space

☐ Has an air-transfer grille to the space above, and also has a dedicated exhaust fan

DESIGNER CONSENT

14. Designer Consent

I, _____ have reviewed and take responsibility for the design work described in this document and I am qualified in the appropriate categories.

Signature: _____ Date: _____