# Schedule 1: Designer Information

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

## A. Project Information

| Building number, street name | | | Unit no. | Lot/con. |
|---|---|---|---|---|
| 47 Fire Route 82b, Kasshabog Lake | | | | |
| Municipality | Postal code | Plan number/ other description | | |
| Havelock – Belmont - Methuen | | | | |

## B. Individual who reviews and takes responsibility for design activities

| Name | | Firm | | |
|---|---|---|---|---|
| Dennis Jenkins | | Northern Designs | | |
| Street address | | | Unit no. | Lot/con. |
| 93 Milroy Drive | | | | |
| Municipality | Postal code | Province | E-mail | |
| Peterborough | K9H 7T2 | ON | dennis@northerndesigns.biz | |
| Telephone number | Fax number | | Cell number | |
| (705 )743-3728 | ( ) | | (705 )930-6882 | |

## C. Design activities undertaken by individual identified in Section B. [Building Code Table 3.5.2.1. of Division C]

| | | |
|---|---|---|
| House | **HVAC – House** | Building Structural |
| Small Buildings | Building Services | Plumbing – House |
| Large Buildings | Detection, Lighting and Power | Plumbing – All Buildings |
| Complex Buildings | Fire Protection | On-site Sewage Systems |

Description of designer's work

Heat loos. Heat gain, Duct designs, Ventilation

## D. Declaration of Designer

I Dennis Jenkins declare that (choose one as appropriate):

(print name)

I review and take responsibility for the design work on behalf of a firm registered under subsection 3.2.4.of Division C, of the Building Code. I am qualified, and the firm is registered, in the appropriate classes/categories.

Individual BCIN: 21995

Firm BCIN: 27927

I review and take responsibility for the design and am qualified in the appropriate category as an "other designer" under subsection 3.2.5.of Division C, of the Building Code.

Individual BCIN: _____

Basis for exemption from registration: _____

The design work is exempt from the registration and qualification requirements of the Building Code.

Basis for exemption from registration and qualification: _____

I certify that:

1. The information contained in this schedule is true to the best of my knowledge.
2. I have submitted this application with the knowledge and consent of the firm.

January 19, 2016

Date

Signature of Designer

NOTE:

1. For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) (c).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 practice, 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.

# RESIDENTIAL MECHANICAL VENTILATION RECORD

RESET

*For Certification of Design and Performance of Residential Ventilation Systems (CSA F326)*

W2

## A HEATING SYSTEM/ COMBUSTION APPLIANCES

- [x] Forced Air [ ] Non Forced air
- [ ] Electric [x] Gas [ ] Oil [ ] Other
- [x] No Combustion Appliances — *No Depressurization Limit*
- [ ] Solid Fuel (including Fireplaces) — *5 Pa. Depressurization Limit*
- [x] Direct Vent (sealed combustion) — *No Depressurization Limit*
- [ ] Positive Venting Induced Draft [ ] *5 Pa. Depress. Limit*
- [ ] Natural Draft or B-Vent Atmospheric *5 Pa. depressurization limit*
- Lowest Depressurization Limit [ ] Pa.

## B EXHAUST EQUIPMENT

- [x] Clothes Dryer(s) (150 cfm default)
- [ ] Downdraft Cook Top (220 cfm default)
- [ ] Other (exhaust) (over 150 cfm)

Depressurization test/Calc. Required? [ ] Yes [x] No

## C TOTAL VENTILATION CAPACITY (TVC)

| | | | | | | |
|---|---|---|---|---|---|---|
| Bsmt & Master Bedroom | 1 | @ | 20 | cfm | 20 | cfm |
| Other Bedrooms | 3 | @ | 10 | cfm | 30 | cfm |
| Bathrooms & Kitchens | 3 | @ | 10 | cfm | 30 | cfm |
| Other Hab. Rooms | 4 | @ | 10 | cfm | 40 | cfm |
| Total Ventilation Capacity (TVC) | | | | | 120 | cfm |

## D EXHAUST CAPACITY

### Continuous

Minimum Continuous Exhaust

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Kitchen(s) | 1 | @ | 60 | cfm | = | 60 | cfm |
| Bathroom(s) | 2 | @ | 20 | cfm | = | 40 | cfm |
| | | | | Total | | 100 | cfm |

### Intermittent

Minimum Intermittent Exhaust

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Kitchen(s) | | @ | 100 | cfm | = | 0 | cfm |
| Bathroom(s) | | @ | 50 | cfm | = | 0 | cfm |
| | | | | Total | | 0 | cfm |

## E

## F TVC SYSTEM

Location:

Manufacturer/Model: [x] HVI rated

Design Airflow 120 cfm high 75 cfm low

HRV/ERV 65 % Sensible Efficiency @ 0°C 74 watts

HRV/ERV 60 % Sensible Efficiency @ -25°C 87 watts

## G ADDITIONAL (exhaust)EQUIPMENT

| | | | |
|---|---|---|---|
| 1 | Location: | cfm | Sones |
| | Manufacturer/Model: | [ ] TVC | [ ] HVI |
| 2 | Location: | cfm | Sones |
| | Manufacturer/Model: | [ ] TVC | [ ] HVI |
| 3 | Location: | cfm | Sones |
| | Manufacturer/Model: | [ ] TVC | [ ] HVI |
| 4 | Location: | cfm | Sones |
| | Manufacturer/Model: | [ ] TVC | [ ] HVI |

## H LOCATION

Roll #: Permit #:

Lot & Plan:

Civic address:

## I BUILDER

Name: House ID#:

Address:

City: P.C.

Phone: Fax:

Email Address:

## J DESIGNER

Name: HRAI #:

Address:

City: P.C.

Phone: Fax:

Email Address: Other #

I certify this ventilation system design to be in accordance with:

- [x] CSA F326 M-91
- [ ] R-2000

Signature: Date:

## K INSTALLATION CHECKLIST

- [ ] Controls Functioning
- [ ] Filters Clean
- [ ] Dampers Accessible
- [ ] Drain loop and connection
- [ ] Distribution to all habitable rooms (non forced air)
- [ ] Forced air system [ ] Continuous mode [ ] Interlocked
- [ ] Kitchen intake grease filter
- [ ] Exhaust 4" above grade
- [ ] Supply intake 6' from exhaust (*recommended*)
- [ ] Supply intake 3' from other exhaust
- [ ] Fans operating and clean
- [ ] Flow measuring stations
- [ ] Insulated ducts sealed
- [ ] Label supply/exhaust hood
- [ ] Kitchen exh. 40" to range
- [ ] Supply 18" above grade

## L MEASURED TVC SYSTEMS

TVC system SUPPLY airflow measured

cfm High cfm Low

TVC system EXHAUST airflow measured

cfm High cfm Low

## M INSTALLER

Name: HRAI #:

Address:

City: P.C.

Phone: Fax:

Email Address:

I certify this ventilation system install to be in accordance with:

- [ ] CSA F326 M-91
- [ ] R-2000

Signature: Date:

| | | | |
|---|---|---|---|
| Prepared By: | HRAI #: | Job Name: | |
| Signature: | Date: | Job #: | Official Use: |

# Load Short Form
## *Entire House*
### Northern Designs

**Job:**
**Date:** October 20, 2015
**By:** DJ

Cert.#: 12905(RHLG, RASD)
93 Milroy Drive, Peterborough, ON K9H 7T2 Phone: 705-743-3728 Email: dennis@northerndesigns.biz Web: www.northerndesigns.biz

## Project Information

For:

## Design Information

| | Htg | Clg |
|---|---|---|
| Outside db (°F) | -9 | 86 |
| Inside db (°F) | 72 | 75 |
| Design TD (°F) | 81 | 11 |
| Daily range | - | M |
| Inside humidity (%) | 50 | 50 |
| Moisture difference (gr/lb) | 56 | 40 |

**Infiltration**

| | |
|---|---|
| Method | F280-12 |
| Exposure category | Light local shielding |
| Construction category | Present (1961-) (ACH=3.57) |
| Number of stories | 1.0 |

### HEATING EQUIPMENT

| | |
|---|---|
| Make | Keeprite |
| Trade | HEIL,COMFORTMAKER,DAY & NIGHT,... |
| Model | G9MVE0601714A |
| AHRI ref | 5551820 |

| | | |
|---|---|---|
| Efficiency | 96 AFUE | |
| Heating input | 60000 | Btuh |
| Heating output | 58000 | Btuh |
| Temperature rise | 56 | °F |
| Actual air flow | 955 | cfm |
| Air flow factor | 0.020 | cfm/Btuh |
| Static pressure | 0.60 | in H2O |
| Space thermostat | | |

### COOLING EQUIPMENT

| | |
|---|---|
| Make | Keeprite |
| Trade | KEEPRITE |
| Cond | CCA924GKA2* |
| Coil | FVM4X36**** |
| AHRI ref | 5840146 |

| | | |
|---|---|---|
| Efficiency | 14.0 EER, 18 SEER | |
| Sensible cooling | 17780 | Btuh |
| Latent cooling | 7620 | Btuh |
| Total cooling | 25400 | Btuh |
| Actual air flow | ***750*** | cfm |
| Air flow factor | 0.037 | cfm/Btuh |
| Static pressure | 0.60 | in H2O |
| Load sensible heat ratio | 0.77 | |

| ROOM NAME | Area (ft²) | Htg load (Btuh) | Clg load (Btuh) | Htg AVF (cfm) | Clg AVF (cfm) |
|---|---|---|---|---|---|
| Crawlspace | 1952 | 15824 | 332 | 312 | ***12*** |
| Kitchen/Dining | 320 | 4456 | 1206 | 88 | ***45*** |
| Foyer | 113 | 2327 | 1074 | 46 | ***40*** |
| Bedroom #4 | 145 | 1835 | 738 | 36 | ***27*** |
| Living Room | 396 | 7487 | 10955 | 147 | ***408*** |
| Bath | 55 | 783 | 349 | 15 | ***13*** |
| Master Bedroom | 216 | 3510 | 2082 | 69 | ***77*** |
| Hall | 171 | 0 | 0 | 0 | ***0*** |
| Mech Room | 260 | 6779 | 543 | 133 | ***20*** |
| Pwdr | 26 | 126 | 44 | 2 | ***2*** |
| Sitting Area | 229 | 2914 | 1472 | 57 | ***55*** |
| Bedroom #3 | 145 | 1245 | 681 | 25 | ***25*** |
| Bedroom #2 | 142 | 1225 | 677 | 24 | ***25*** |

***Bold/italic values have been manually overridden***

| | | | | | | |
|---|---|---|---|---|---|---|
| Entire House d<br>Other equip loads<br>Equip. @ 1.00 RSM<br>Latent cooling | 4168 | 48511<br>2308 | 20154<br>891<br>21045<br>6313 | 955 | ***750*** |
| TOTALS | 4168 | 50818 | 27358 | 955 | ***750*** |



***Bold/italic values have been manually overridden***

# Building Analysis
## *Entire House*
### Northern Designs

Job:
Date: October 20, 2015
By: DJ

Cert.#: 12905(RHLG, RASD)
93 Milroy Drive, Peterborough, ON K9H 7T2 Phone: 705-743-3728 Email: dennis@northerndesigns.biz Web: www.northerndesigns.biz

## Project Information

For:

## Design Conditions

**Location:**
Campbellford, ON, CA
Elevation: 479 ft
Latitude: 44 °N

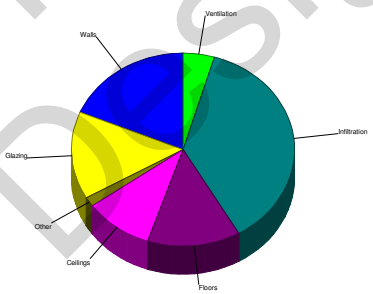
| **Outdoor:** | **Heating** | **Cooling** |
|---|---|---|
| Dry bub (°F) | -9 | 86 |
| Daily range (°F) | - | 22 ( M ) |
| Wet bulb (°F) | - | 74 |
| Wind speed (mph) | 8.1 | 5.6 |

| **Indoor:** | **Heating** | **Cooling** |
|---|---|---|
| Indoor temperature (°F) | 72 | 75 |
| Design TD (°F) | 81 | 11 |
| Relative humidity (%) | 50 | 50 |
| Moisture difference (gr/lb) | 55.9 | 39.8 |

| **Infiltration:** | |
|---|---|
| Method | F280-12 |
| Exposure category | Light local shielding |
| Construction category | Present (1961-) (ACH=3.57) |
| Number of stories | 1.0 |

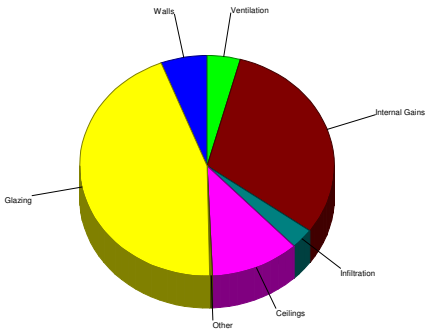
## Heating

| Component | Btuh/ft² | Btuh | % of load |
|---|---|---|---|
| Walls | 1.2 | 9480 | 18.7 |
| Glazing | 22.8 | 7437 | 14.6 |
| Doors | 7.2 | 811 | 1.6 |
| Ceilings | 2.3 | 5074 | 10.0 |
| Floors | 3.1 | 6843 | 13.5 |
| Infiltration | 42.9 | 18864 | 37.1 |
| Ducts | | 0 | 0 |
| Hydronic | | 0 | 0 |
| Humidification | | 0 | 0 |
| Ventilation | | 2308 | 4.5 |
| Adjustments | | 0 | |
| **Total** | | **50818** | **100.0** |




## Cooling

| Component | Btuh/ft² | Btuh | % of load |
|---|---|---|---|
| Walls | 0.2 | 1232 | 5.9 |
| Glazing | 28.7 | 9360 | 44.5 |
| Doors | 0.7 | 79 | 0.4 |
| Ceilings | 1.1 | 2369 | 11.3 |
| Floors | 0 | 0 | 0 |
| Infiltration | 1.4 | 634 | 3.0 |
| Ducts | | 0 | 0 |
| Ventilation | | 891 | 4.2 |
| Internal gains | | 6480 | 30.8 |
| Blower | | 0 | 0 |
| Adjustments | | 0 | |
| **Total** | | **21045** | **100.0** |




Latent Cooling Load = 6313 Btuh
Overall U-value = 0.031 Btuh/ft²-°F

Data entries checked.

# F280 Infiltration Report
## *Entire House*
### Northern Designs

**Job:**
**Date:** October 20, 2015
**By:** DJ

Cert.#: 12905(RHLG, RASD)
93 Milroy Drive, Peterborough, ON K9H 7T2 Phone: 705-743-3728 Email: dennis@northerndesigns.biz Web: www.northerndesigns.biz

## Project Information

For:

## Design Conditions

| | |
|---|---|
| House type | Detached |
| Site | Suburban, forest |
| Wall shielding | Light local shielding |
| Storeys | 1.0 (w/o basement) |
| Highest ceiling height (ft) | 18.0 |
| Foundation | Crawl Space |

## Air Leakage

| | |
|---|---|
| Air tightness | Present (1961-) (ACH=3.57) |

## Flues

| | | | | |
|---|---|---|---|---|
| Shielding | Light local shielding | | | |
| | #1 | #2 | #3 | #4 |
| Diameter (in) | 8 | 0 | 0 | 0 |

## Summary

### Heating

| | | |
|---|---|---|
| Infiltation area | 4168 | ft² |
| Infiltration volume | 28368 | ft³ |
| Winter AC/hr | 0.45 | |
| Heating infiltration | 215 | cfm |

### Cooling

| | | |
|---|---|---|
| Infiltration area | 4168 | ft² |
| Infiltration volume | 28368 | ft³ |
| Summer AC/hr | 0.11 | |
| Cooling infiltration | 53 | cfm |

# F280-12 Basement/Slab Heat Loss
## *For BCIN_1*
### Northern Designs

**Job:**
**Date:** October 20, 2015
**By:** DJ

Cert.#: 12905(RHLG, RASD)
93 Milroy Drive, Peterborough, ON K9H 7T2 Phone: 705-743-3728 Email: dennis@northerndesigns.biz Web: www.northerndesigns.biz

## Project Information

For:

### Weather Station

| | |
|---|---|
| Province | ON |
| Region | Campbellford |

### Foundation Dimensions

| | |
|---|---|
| Floor length (ft) | 91.3 |
| Floor width (ft) | 24.2 |
| Exposed perimeter (ft) | 231.0 |
| Wall height (ft) | 5.0 |
| Depth below grade (ft) | 3.0 |
| Window area (ft²) | 0 |
| Door area (ft²) | 0 |

### Radiant Slab

| | |
|---|---|
| Heated fraction | 0 |

### Design Months

| | |
|---|---|
| Heating month | 1 |

### Foundation Loads

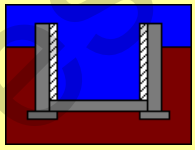
| | |
|---|---|
| Heating load (Btuh) | 5541 |

### Site

| | |
|---|---|
| Soil conductivity | Normal - dry sand, loam, clay |
| Water table | Normal (23-33 ft) |

### Insulation Configuration

| | |
|---|---|
| Configuration | BCIN_1 |
| Int wall insul (ft²-°F/Btuh) | 12.00 |



- concrete walls and floor
- interior surface of wall insulated over full-height
- any first storey construction type

## Load Allocation

| Room | Exposed perimeter (ft) | Heating load (Btuh) |
|---|---|---|
| Crawlspace | 186.8 | 5541 |

# F280-12 Basement/Slab Heat Loss
## *For BCIN_1*
### Northern Designs

**Job:**
**Date:** October 20, 2015
**By:** DJ

Cert.#: 12905(RHLG, RASD)
93 Milroy Drive, Peterborough, ON K9H 7T2 Phone: 705-743-3728 Email: dennis@northerndesigns.biz Web: www.northerndesigns.biz

## Project Information

For:

### Weather Station

| | |
|---|---|
| Province | ON |
| Region | Campbellford |

### Foundation Dimensions

| | |
|---|---|
| Floor length (ft) | 91.3 |
| Floor width (ft) | 24.2 |
| Exposed perimeter (ft) | 231.0 |
| Wall height (ft) | 7.0 |
| Depth below grade (ft) | 0.0 |
| Window area (ft²) | 0 |
| Door area (ft²) | 36.0 |

### Radiant Slab

| | |
|---|---|
| Heated fraction | 0 |

### Design Months

| | |
|---|---|
| Heating month | 1 |

### Foundation Loads

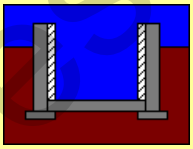
| | |
|---|---|
| Heating load (Btuh) | 1303 |

### Site

| | |
|---|---|
| Soil conductivity | Normal - dry sand, loam, clay |
| Water table | Normal (23-33 ft) |

### Insulation Configuration

| | |
|---|---|
| Configuration | BCIN_1 |
| Int wall insul (ft²-°F/Btuh) | 20.00 |



- concrete walls and floor
- interior surface of wall insulated over full-height
- any first storey construction type

## Load Allocation

| Room | Exposed perimeter (ft) | Heating load (Btuh) |
|---|---|---|
| Mech Room | 44.3 | 1303 |

# Heat loss and gain calculation summary sheet

CSA-F280-M12
Standard Form No. 1

These documents issued for the use of **Northern Designs** and may not be used by any other persons without authorization. Documents for permit and/or construction are signed in red.

Project no.

## Building location

| | |
|---|---|
| Model: | Site: |
| Address: | Lot: |
| City and Province: | Postal code: |

## Calculations based on

Dimensional information based on:

| | | | | | |
|---|---|---|---|---|---|
| Attachment: | Detached | | Front facing: | Northwest | Assumed? No |
| Number of storeys: | 1 + basement | | Air tightness: | Present (1961-) (ACH=3.57) | Assumed? Yes |
| Weather location: | Campbellford, ON, CA | Ventilated: Included | Wind exposure: | Light local shielding | |
| HRV? | | | Internal shading: | (none) | Occupants: 5 |
| Recovery %: | 65 % | | Units: | Imperial (I-P) | |

## Heating design conditions

Outdoor temp: -9 °F Indoor temp: 72 °F Mean soil temp: 48 °F

## Cooling design conditions

Outdoor temp: 86 °F Indoor temp: 75 °F Latitude: 44 °N STrange: 22 °F

## Above grade walls

| | |
|---|---|
| Style A: | ne,se,sw,nw - Blk wall, 2"x4" wood int frm, 8" thk, r-14 cav ins |
| Style B: | ne,se,sw,nw - Frm wall, vnl ext, 1/2" wood shth, r-25 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud |
| Style C: | |
| Style D: | |

## Below grade walls

| | |
|---|---|
| Style A: | BCIN_1: Bsmnt, 3 ft BG, conc fndatn, wall R-12, flr unins |
| Style B: | BCIN_1: Bsmnt, 0.01 ft BG, conc fndatn, wall R-20, flr unins |
| Style C: | |
| Style D: | |

## Floors on soil

| | |
|---|---|
| Style A: | BCIN_1: Bsmnt, 3 ft BG, conc fndatn, wall R-12, flr unins HLR=5541 Btuh |
| Style B: | BCIN_1: Bsmnt, 0.01 ft BG, conc fndatn, wall R-20, flr unins HLR=1303 Btuh |

## Ceilings

| | |
|---|---|
| Style A: | 10A21 (Attic ceiling, asphalt shingles roof mat, r-50 ceil ins, 1/2" gypsum board int fnsh) |
| Style B: | 12A14 (Rf/clg ceiling, asphalt shingles roof mat, frm cons, 3/4" wood int fnsh, 6" thkns, r-19 ceil ins) |
| Style C: | C part ceiling, r-30 ins, frm flr, 12" thkns |

## Exposed floors

| | |
|---|---|
| Style A: | |
| Style B: | |

## Doors

| | |
|---|---|
| Style A: | ne,nw,n - 23E0 (Door, mtl pur core type) |
| Style B: | |
| Style C: | |

## Windows

| | |
|---|---|
| Style A: | se,sw,nw,n - U-Value 16 (2 glazing, clr low-e outr, argon gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 6.67 ft head ht) |
| Style B: | |
| Style C: | |
| Style D: | |

## Skylights

| | |
|---|---|
| Style A: | |
| Style B: | |

Attached documents:

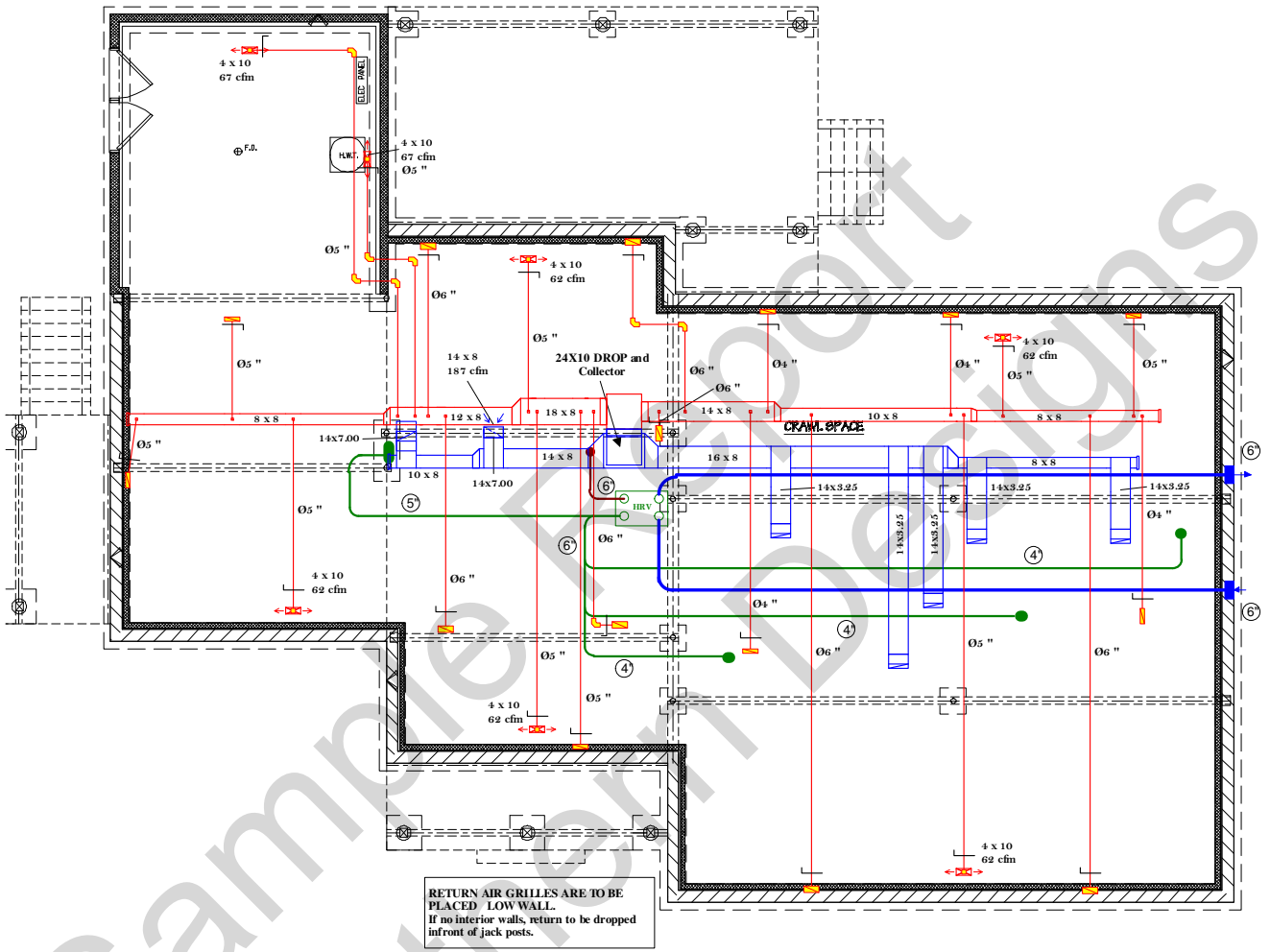
Notes:

## Calculations performed by

| | |
|---|---|
| Name: | DJ |
| Company: | Northern Designs |
| Address: | 93 Milroy Drive |
| City and Province: | Peterborough ON |
| Postal code: | K9H 7T2 |
| Telephone: | 705-743-3728 |
| Fax: | |
| E-mail: | dennis@northerndesigns.biz |

HRAI cert.#: 12905 (Loads,Ducts)

Basement




RETURN AIR GRILLES ARE TO BE PLACED LOW WALL.
If no interior walls, return to be dropped infront of jack posts.





**Job #:**
**Performed by DJ for:**

**Northern Designs**
93 Milroy Drive
Peterborough, ON K9H 7T2
Phone: 705-743-3728
www.northerndesigns.biz dennis@northerndesigns....

Scale: 1 : 127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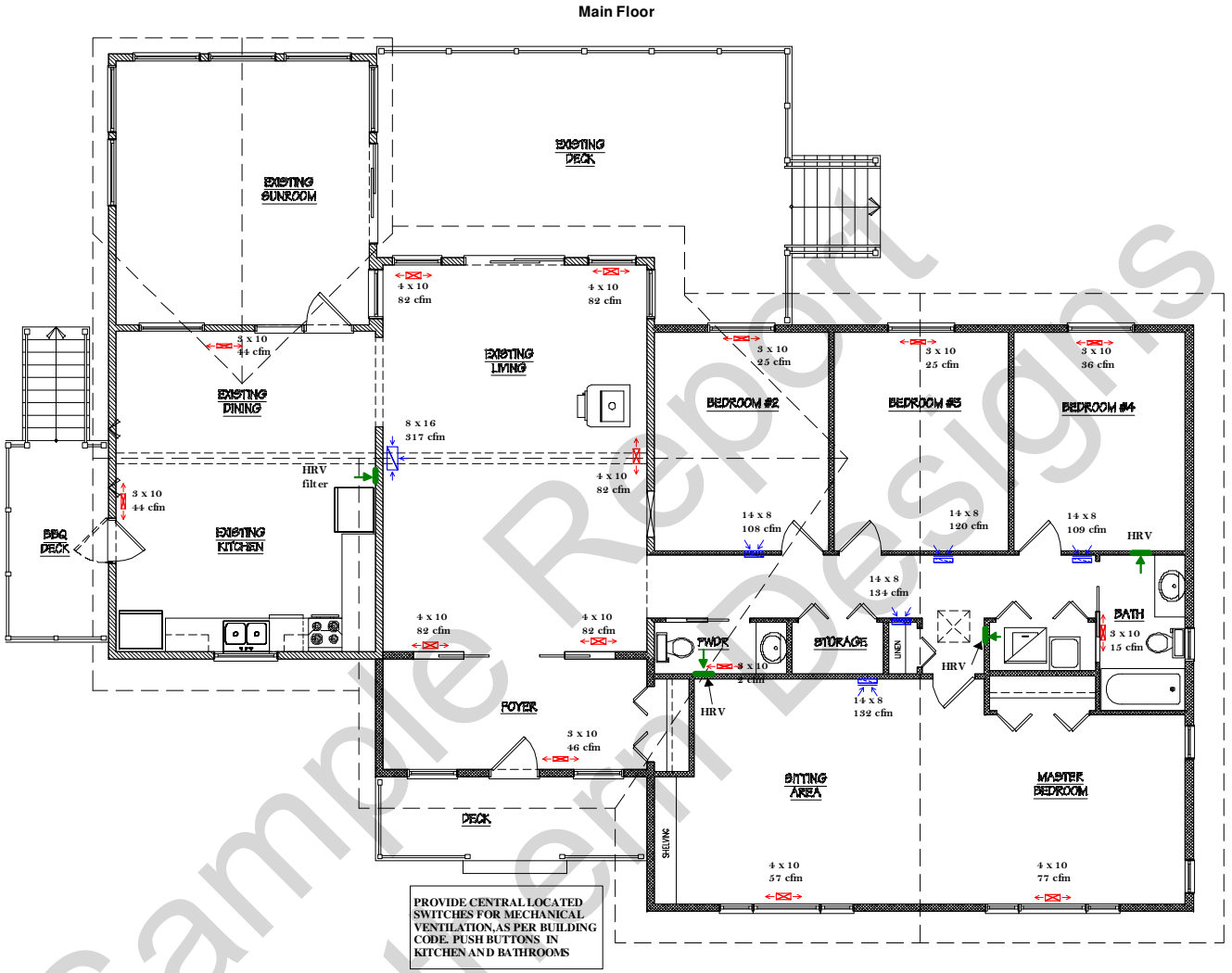






**Job #:**
**Performed by DJ for:**

**Northern Designs**
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Phone: 705-743-3728
www.northerndesigns.biz dennis@northerndesigns....

Scale: 1 : 127


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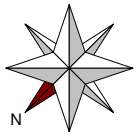


**Notes**

ALL DUCT WORK IS TO BE SEALED WITH EITHER FOIL TAPE OR MASTIC.
ALL PLUMPING AND ELECTRICAL HOLES ARE TO BE SEALED.
FLEX CONNECTORS ARE TO BE INSTALLED TO ISOLATE EQUIPMENT.
VOLUME DAMPERS TO BE INSTALLED IN EACH SUPPLY BRANCH, AND BALANCING DAMPERS AFTER PTO'S.
DUCT WORK TO BE CORRECT DISTANCE DOWN FROM WOOD JOIST, IE GAS FURNACE SUPPLY TRUNK 1" DOWN. SEE OWNERS MANUAL FOR DETAILS

| Furnace and A/C Specifications |
|---|
| Furnace Make: KEEPRITE - Gas Furnace (96 AFUE) 2 Stage with ECM Motor |
| Model: G9MVE0601714A, 60,000 BTU |
| Heating Design: 955CFM @ 0.6 ESP |
| A/C Make: KEEPRITE - 18 SEER 2 Stage |
| A/C Model: CCA924GKA2* |
| Cooling Design: 750CFM @ 0.6 ESP |
| 2 STAGE FURNACE TO HAVE FIRST STAGE RUN AS LONG AS POSSIBLE |

| Ventilation Specifications |
|---|
| Type: HRV Direct Vented |
| Model: VANEE 100H with Control Switches Located in All Bathrooms and Kitchen |
| Balance: PVC 75 CFM |
| SITE LOCATE HRV HOODS AS PER OBC 9.32.3.12 |



**Job #:**
**Performed by DJ for:**

**Northern Designs**
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Scale: 1 : 127


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