### VENTILATION SCHEDULE - MULTIPLE SPACES

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| Design Conditions - Eugene, OR

### DESIGN CONDITIONS - EUGENE, OR

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- **Note:** All values are based on the design conditions and occupancies.
## System Outdoors Air Calculation

- **Location**: Various
- **Area**: Various
- **Population**: Various

### Notes
- **A**: System Outdoor Air Calculation is based on the Section 403 of the 2010 Oregon Mechanical Specialty Code.
- **B**: Refer to Air Handling Unit Schedule for actual outdoor air flow rate.

### Table: Ventilation Schedule - Multiple Spaces

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### Ventilation Schedule - Mechanical Eugene School District

- **Location**: Various
- **Space**: Various
- **Area (SF)**: Various
- **Population**: Various

### Notes
- **A**: Non-correction outdoor air intake - Vou: 0
- **B**: 0.3
- **C**: --
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### Additional Notes
- **A**: Classroom (age 5-8)
- **B**: Multiuse assembly
- **C**: Cafeteria, fast food
- **D**: Main entry lobbies
- **E**: Corridors
- **F**: Conference rooms
- **G**: Office spaces
- **H**: Storage rooms
- **I**: Conference rooms
- **J**: Storage rooms
- **K**: Music/theater/dance
- **L**: Office spaces
- **M**: Toilets
- **N**: Toilets
- **O**: Toilet rooms - public
GENERAL NOTES:
A. BRANCH RUNOUT PIPING TO TU HEATING COILS, CABINET UNIT HEATERS AND UNIT HEATER TO BE 3/4-INCH UNLESS OTHERWISE NOTED.
B. Provide fresh air make-up air for occupied spaces to be located in stairwell entry, receive fresh air at roof level.
C. Provide volume damper at fresh air damper unit as noted.
D. All work shall be coordinated with all trades and utilities. Barriers or masking are to be included per Trade Supplied. Paint shall be applied directly to the finish, and shall not be protected by any additional cost to the Owner.
E. HVAC equipment connection to ductwork shall be fabricated per detail.
F. Provide to architectural reflected ceiling plans for final location.
G. All details to be furnished by Owner.
H. Piping shall be listed or approved and shall be pipe size 
   A103

NOTES:
1. Reference FS-103, note internal connections per detail.
2. Reference FS-103, note sector internal connections per detail.
4. See WSHC drawings for specific clearances and heights.
5. Movement in fixed floor areas.
6. Movement in fixed floor areas.
7. Line work must be clear of any obstruction.
8. System costs.
9. ECO-Friendly Auto-Siphon for all electronic control.
10. A/C connections from attic to B1B.
11. Terminals to be consistent with B1B.
12. Provide NPT threads for all exterior value water piping.

ISSUE DATE:
09/23/2014

REVISIONS:
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1 LEVEL 1 ENLARGED PLAN - SECTOR C - HVAC

NOTES:

GENERAL NOTES:
A. PROVIDE VOLUME DAMPERS AT ALL HEAT RECOVERY VENTILATION AIR HANDLING UNITS AND EACH TERMINAL UNIT.
B. PROVIDE REHEAT RECIPIENT FOR ECONOMIZER MODE, 2 SF EACH.
C. PROVIDE VOLUME DAMPERS AT EACH REHEAT RECIPIENT.
D. ALL WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. PROVIDE TRANSFER OPENINGS FOR RETURN AIR SIZED AT 300 FPM IN FULL HEIGHT WALLS SEE ARCHITECTURAL DRAWINGS.
E. PROVIDE VOLUME DAMPERS AT EACH BRANCH OUTLET/INLET.
F. ALL WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. PROVIDE TRANSFER OPENINGS FOR RETURN AIR SIZED AT 300 FPM IN FULL HEIGHT WALLS SEE ARCHITECTURAL DRAWINGS.
G. PROVIDE VOLUME DAMPERS AT EACH BRANCH OUTLET/INLET.
H. PIPING SHALL BE LARGEST SIZE SHOWN UNTIL SMALLER PIPE SIZE IS INDICATED INCLUDING MAINS AND BRANCH PIPING.

GENERAL NOTES:
A. BRANCH RUNOUT PIPING TO TU HEATING COILS, CABINET UNIT HEATERS AND UNIT HEATER TO BE 3/4-INCH UNLESS OTHERWISE NOTED.
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APPLICATION OF DUCT TRANSITIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DIMENSIONS BEFORE FABRICATION.

G. ALL DETAILS APPLY TO THIS SHEET WHETHER TAGGED OR NOT.

A. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF AIR DEVICES.
B. ALL DETAILS APPLY TO THIS SHEET WHETHER TAGGED OR NOT.
C. PIPING SHALL BE LARGEST SIZE SHOWN UNTIL SMALLER PIPE SIZE IS INDICATED INCLUDING MAINS AND BRANCH PIPING.
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F. PIPING SHALL BE LARGEST SIZE SHOWN UNTIL SMALLER PIPE SIZE IS INDICATED INCLUDING MAINS AND BRANCH PIPING.
**GENERAL NOTES:**

A. PROVIDE TRANSIENT FLOW PIPING TO SHAPE CURVE UP TO BOILER COIL. CHARGE LIST CHANGING NOTES.

B. PROVIDE TRANSIENT FLOW PIPING AT MANIFOLD OUTLET. CHARGE LIST CHANGING NOTES.

C. PROVIDE VENTED SUMP AT BOILER BASE EXCEPT AS NOTED.

D. ALL PIPING SHALL BE COORDINATED WITH ALL TRADES SHOWN ON PLANS AND CUTTS. ALL PIPING SHOWN IS FOR DESTINATION COST TO THE OWNER.

E. VERIFY ALL PIPING TRANSITIONS TO Field-Mechanical Equipment. Verify pipe pressure loss to mechanical equipment cut-off. Provide all necessary supports, hangers, and mains.

F. REFER TO ELECTRICAL PANEL LOCATION (IF INDICATED) FOR DISTANCE TO PANEL FROM CENTERS.

G. ALL NEW PIPING IN THE B3-1000 PIPING SYSTEM

H. PIPING SHOWN IS LARGEST SIZE SHOWING. SMALLER PIPE SIZE WILL BE RECOMMENDED IN FUTURE PIPING.

**GENERAL NOTES:**

1. 3/4" CONDENSATE DRAIN UP TO MECH PLATFORM.

2. BACKFLOW PREVENTER (SEE PLUMBING DWGS) AND PRV. SEE 11/M501.

3. WATER HEATER SIDEWALL TERMINATION KIT WITH SIDE BY SIDE VENT AND INSTALL 36" DIRECTLY BENEATH CORRESPONDING BOILER VENT TERMINATION.

4. WATER HEATER SIDEWALL TERMINATION KIT WITH SIDE BY SIDE VENT AND INSTALL 36" DIRECTLY BENEATH CORRESPONDING BOILER VENT TERMINATION.

5. BOILER COMBUSTION AIR OPENING WITH WEATHER HOOD AND SCREEN. TERMINATE AT 12' A.F.F. PROVIDE MIN. 12" HORIZONTAL SEPARATION BETWEEN ADJACENT VENTS. MAINTAIN MAX POSSIBLE HORIZONTAL DISTANCE.

6. WATER HEATER SIDEWALL TERMINATION KIT WITH SIDE BY SIDE VENT AND INSTALL 36" DIRECTLY BENEATH CORRESPONDING BOILER VENT TERMINATION.

7. WATER HEATER SIDEWALL TERMINATION KIT WITH SIDE BY SIDE VENT AND INSTALL 36" DIRECTLY BENEATH CORRESPONDING BOILER VENT TERMINATION.

8. WATER HEATER SIDEWALL TERMINATION KIT WITH SIDE BY SIDE VENT AND INSTALL 36" DIRECTLY BENEATH CORRESPONDING BOILER VENT TERMINATION.

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**NOTES:**

1. CIVIL DESIGN DRAFTING OUTSTANDING PIPING MATERIALS AND INSTALLATION.

2. CIVIL DESIGN DRAFTING OUTSTANDING PIPING MATERIALS AND INSTALLATION.

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GENERAL NOTES:

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B. PROVIDE TRANSFER OPENINGS FOR RETURN AIR SIZED AT 300 FPM IN FULL HEIGHT WALLS SEE ARCHITECTURAL DRAWINGS.

C. PROVIDE VOLUME DAMPER AT EACH BRANCH OUTLET/INLET.

D. ALL WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN PIPING AND DUCTS (INCLUDING DIVIDED DUCTS) AND TRANSITIONS AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

E. VERIFY ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER’S CERTIFIED DRAWINGS. VERIFY AND PROVIDE DUCT TRANSITIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DIMENSIONS BEFORE FABRICATION.

F. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF AIR DEVICES.

G. ALL DETAILS APPLY TO THIS SHEET WHETHER TAGGED OR NOT.

H. PIPING SHALL BE LARGEST SIZE SHOWN UNTIL SMALLER PIPE SIZE IS INDICATED INCLUDING MAINS AND BRANCH PIPING.

NOTE:

1. UP TO ROOF, RELIEF FAN, EF-ADMIN.

2. D.9

3. M414

4. M414

5. M414

6. M414

7. M414
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NOTES:
1. 2" END OF LINE BYPASS.