## SECTION 15880 – PROVISIONAL

## AIR DISTRIBUTION SYSTEMS

***Provisional Specification Summary:***

*1.1 – Modify first paragraph of this section as shown below*
*1.2.01 – Replace this subsection as shown below*
*1.2.02 – Delete this subsection*
*1.2.04 – Delete this subsection*
*1.3.01 – Delete this subsection*
*1.3.02 – Delete this subsection*
*1.3.02 – Delete this subsection*
*1.3.03 – Delete this subsection*
*1.3.04 – Delete this subsection*
*1.3.05 – Modify this subsection as shown below*
*1.4.01 – Replace this subsection as shown below*
*1.4.02 – Delete this subsection*
*1.4.03 – Delete this subsection*
*1.5 – Delete this section*
*1.5.01 – Delete this subsection*
*1.7 – Modify first paragraph of this section as shown below*
*2.2 – Modify this section as shown below*
*2.2.01 – Delete this subsection*
*2.2.02 – Delete this subsection*
*2.3 – Replace this section as shown below*
*2.4 – Delete this section and all associated subsections*
*2.5 – Delete this section*
*2.5.01 - Delete this subsection*
*2.5.03 – 2.5.08 – Delete these subsections*
*2.6 – 2.13.02 – Delete these sections and subsections*
*2.14 – 2.16 – Delete these sections*
*2.18 –2.22.01- Delete these sections and subsections*
*2.22.04 – 2.23 – Delete these sections and subsections*
*3.2.02 – Delete this subsection*
*3.3 - Replace second paragraph as shown below*
*3.3.02-3.3.03 - Delete these subsections*
*3.3.05-3.3.07 - Delete these subsections*
*3.3.09-3.3.10 - Delete these subsections*
*3.3.13 –3.3.14- Delete these subsections*
*3.4.01 – Modify this subsection as shown below*

*Provisional Specifications—which are issued separately from the Master Specifications on a per contract basis—shall supersede and govern over all other specifications or contract documents. All other wording in the Master Specifications that is not specifically stated to be modified in the Provisional Specifications shall remain in effect as is. The Provisional Specification Summary is included to clarify and/or highlight changes.*

***(Update text as shown.)***

1.1 Scope. This section covers the modification in the air distribution equipment, fans, ductwork, duct mounted devices, and appurtenances associated with the heating, ventilating, and dehumidification (HVDU) systems.

1.2.01 Coordination. Contractor shall verify that each component of the system is compatible with all other parts of the system; that all piping, ductwork, materials, fans, pumps, and motor sizes are appropriate; and that all devices necessary for a properly functioning system have been provided in accordance with the PC-776 contract drawings. To modify the supply fan and exhaust fan system for existing HVDU units the contractor has to coordinate with the manufacturer of these units. Contractor to modify the supply fan system to increase the flow to 1350 (+/- 2%) CFM, exhaust fan system to increase the flow to 1400 (+-/ 2%) CFM without replacing existing supply and exhaust system motors. The contractor to field verify supply and exhaust fan capacity at the new conditions. Prior approval for all the anticipated modification is required.

1.3.05 Ductwork. As required, the ductwork has been identified in the contract drawings and shall be identified with direction of airflow, and service (supply, return, mixed, exhaust, and outside air). The identifications shall be located at equipment, at each side of structure or enclosure penetrations, and at each obstruction.

1.4.01 Drawings and Data. Cmplete assembly and installation drawings, and wiring and schematic diagrams, together with detailed specifications and data covering materials, parts, devices, and accessories forming a part of the equipment furnished, shall be submitted in accordance with Master Specification Section 01080, Project Submittals.

Fans

Name of manufacturer.

Type and model.

Construction materials, thickness, and finishes.

Overall dimensions and required clearances.

Net weight and load distribution.

Performance curves with the specified operating point clearly identified for each unit, type, and model, with capacity in cubic feet per minute ($m^3/s$) as the abscissa and brake horsepower, static pressure, and

efficiency as the ordinate. The fan curves shall include a family of curves for at least three different rotative speeds on a single chart.

Certified AMCA standard test code sound power output data for the fan outlet and casing when operating at the specified volume flow rate. Sound data shall list dB re $10^{-12}$ watts in each octave band, with midrange frequencies starting at 63 Hz and ending at 8,000 Hz.

Schematic control wiring diagrams showing multiline wiring for the unit and all interconnecting devices. Wiring diagrams shall be detailed to the degree required for field construction, with all terminals identified.

Equipment

Name of manufacturer.

Type and model.

Construction materials, thickness, and finishes.

Manufacturer's performance data.

Overall dimensions and required clearances.

Net weight and load distribution.

Wiring diagrams.

Sheet Metal Fabrication Drawings

Duct layout drawings indicating shop fabricated sections and dimensions.

Pressure and seal classifications.

Access panel and door construction, sizes, and locations.

Duct sealant, adhesive, gasket, and tape information.

Coatings.

Ductwork materials.

1.7 Extra Materials.

Two complete sets of material (belts, pulleys, screws etc…) for supply and exhaust fans shall be furnished for the equipment.

2.2 Performance and Design Requirements. The coil capacities in the equipment shall remain as is except supply and exhaust fan capacities.

Contractor to provide one year performance Warranty for the entire dehumidification unit.

Each fan's operating selection point on the fan curves shall be selected to the right of the peak pressure/efficiency point and below the lowest point along the fan curve, to the left of the peak pressure/efficiency point.

2.3 Acceptable Manufacturers. Rush Air Inc.

3.3 Installation.

The unit base frame will be resealed per manufacturers recommendations.

3.4.01 Installation Check.

Upon successful completion of CFM checks for supply and exhaust, the contractor will adjust the supply air and exhaust air dampers for the specified flow for each level of the B houses.

End of Provisional Section