

## **Addendum / Upgrade HVAC – Mall & Lobby / Project 652-14-105**

**Phasing:** Contractor shall perform work in such a manner to minimize interruptions in daily operations of the Medical Center or the environmental conditions in the Mall or Lobby. Shut-downs or interruption of services that affect the above shall be scheduled 72 hours in advance and approved by the COR, Safety Manager, and Chief of Engineering. The contractor shall provide temporary services and equipment to minimize such interruptions, and shall be responsible for all equipment, installations, service connections, and maintenance to do so. Air handlers shall be replaced one at a time. Installation of the first air handler shall be complete and fully functional, including controls, before work on the second unit can start.

**Temporary Services / Equipment:** The contractor shall provide all temporary services and equipment to minimize interruption of Medical Center operations or environmental conditions, including temporary air handling unit(s), as well as, any temporary mechanical, plumbing, electrical and communications needed for the operation of this equipment. The contractor shall provide all valves, ductwork, and electrical devices/equipment to connect to existing hospital services. The means and methods of providing such temporary services shall be determined by the contractor, but must be approved by the COR. The temporary air handler shall meet the seasonal requirements as outlined below for each air handler. Specified supply air CFM's shall be measured and documented at the transition between temporary and existing ductwork and not at the temporary air handler. The contractor shall be responsible for all rigging and structural supports for the temporary air handler. If the decision is made to locate the temporary air handler on an existing roof, a raised structural steel platform shall be provided that is engineered for support of the equipment and is safely supported by the existing building structure. The temporary air handler shall be connected to the existing JCI Metasys control system for monitoring of system operation from the Utility Plant central station in Building 501.

### **Temporary Service Requirements**

#### **AC #50**

Design airflow = 29,110 CFM with 4,365 OA, Supply Fan #500-SF-50, 29,110 CFM @ 6.59"sp. Exhaust fan #500-EF-57, 4,365 @ 1.52"sp, 2HP.

Cooling Coil #500-CC-50 29,110 CFM, 136.3 GPM, Delta T= 45/59, min BTUH=60.1/49.2 LAT, 133 lbs/hr Steam, 400 lbs/hr condensate 954230, EAT = 82.83/67.61, LAT = 58/57.4

Steam Coil #500-PH 50, 29,110 CFM, EAT = 10, LAT = 40, min BTUH = 951,900, Control valve @ 995 lbs/hr, Trap @ 2,985 lbs/hr.

Steam Humidifier #500-HU-99, 14,555 CFM, 2 manifolds, 60.1/45.1 EAT, 60.1/49.2 LAT, 133 lbs/hr steam, 400 lbs/hr condensate.

Steam Humidifier #500-HU-100, 14,555 CFM, 2 manifolds, 60.1/45.1 EAT.

**AC #51**

Design airflow = 38,770 CFM with 5,815 OA, Supply Fan #500-SF-51, 38,770 CFM @ 6.41"sp.  
Exhaust fan #500-EF-58, 5,815 CFM @ 1.91"sp, 5HP.

Cooling Coil #500-CC-51 38,770 CFM 290.0 GPM, Delta T= 45/59, min. BTUH=1,742,916, EAT  
= 83.42/67.80, LAT = 54/53

Steam Coil #500-PH 51, 39,770 CFM, Eat = 10, LAT = 40, min BTUH = 1,267,780, Control  
valve @ 1,325 lbs/hr, Trap @ 3,975 lbs/hr.

Steam Humidifier #500-HU-101, 19,385 CFM, 2 manifolds, 60.1/45.1 EAT, 60.1/49.2 LAT, 177  
lbs/hr steam, 532 lbs/hr condensate.

Steam Humidifier #500-HU-102, 19,385 CFM, 2 manifolds, 60.1/45.1 EAT, 60.1/49.2 LAT, 177  
lbs/hr steam, 532 lbs/hr condensate.