

QUESTION:

1. 232113-1.1.2 calls for extension of domestic water make-up piping, but no such piping is shown on the floor plans. Please clarify. *The extension of the non-potable water piping is based upon the final location of the water treatment equipment and the air separator.*
2. 232113-2.11 Expansion Joints, compensators, and guides are listed in the specifications but none are shown on the drawings. Please clarify where these are required. *These items were left in the specifications if any of the piping routing is significantly different than per the contract drawings. The current routing of the piping, these items are not required.*
3. 232113-2.12.B Expansion Tank is specified but not shown on the drawings. Please clarify as to whether or not one is required, where it is to be located, and a piping detail. *The 12" air separator will be installed on the 12" CHWR line downstream of the temporary chilled water tie-in.*
4. 232500-2.2.E Side Stream Water Filter is specified but not shown on the drawings. Please clarify as to whether or not one is required, where it is to be located, and a piping detail.
5. 232500-2.3 Glycol storage tanks, pump, etc are specified but not shown on the drawings. Please clarify as to whether or not required, where all is to be located, and a piping detail. *The Glycol Storage Tank, and its fill pump are not required.*
6. 236400-2.2 calls for Refrigerant Monitoring & Safety Equipment but is not indicated on the drawings. Please clarify as to whether or not required and where it is to be located. *The refrigerant Monitoring and Safety Equipment is required and its location will be determined upon the final configuration and installation of the chillers and their associated piping. Contractor to assume its location will be near the door of Stair 2.*

7. 251010 Calls for "Advanced Utility Metering System" for electrical power, chilled water, heating water, domestic water, recovered water and make-up water. However, none of these meter sizes and/or locations are indicated on the project plans. Please clarify as to what is required. *The chilled water energy meters are called out on M-800 and M-60X as "WFMS". No energy meters are needed for heating, domestic, recovered or make-up water. These meters are to be installed and located as part of the chiller plant optimization controls and will require coordination between the all parties to determine which contractor is supplying, installing and wiring these devices. Traditionally the mechanical contractor will provide the meters for all the hydronic systems and the electrical contractor shall supply the electrical meter, the controls contractor is coordinate location with both contractors and provide wiring between the device and the control panel. Power wiring is to be provided by the electrical contractor.*

RESPONSE: Refer to above in *italized Red*.