Back Basics

BASIS OF DESIGN — MUSEUM ADDITION BUILDING PROJECT
Date: Project Name: Project #: 2014-01 Prepared By: Revision Date:
BUILDING
New Construction Renovation Addition Square Feet: No. of Floors Below Grade: No. of Floors at and Above Grade:
UTILITIES
Electrical: 🗅 New 🗅 Upgrade 🗅 Existing Gas: 🗅 New 🗅 Upgrade 🗅 Existing Steam: 🗅 New 🗅 Upgrade 🗅 Existing Chilled Water: 🗅 New 🗅 Upgrade 🗅 Existing
Hot Water: 🗅 New 🕒 Upgrade 🖵 Existing
Services from Utility for: 🗅 Electric 🗳 Gas 📮 District Energy Steam 📮 Existing
Campus Power Plant: Electric Gas Steam CHWS CWS Hot Water None
UTILITY DESIGN PARAMETERS
Electrical: 120/1/60 208/3/60 277/3/60 480/3/60/3/60 Emergency Power
Emergency Power: New Diesel Oil Gas Existing None Gas: Design Parameters by Plumbing Engineer
Steam Pressure: 🗅 Low @psig 🗅 Medium @psig 🗅 High @psig 🗅 High @psig
Chilled Water Temperature: CHWS @ <u>42°</u> F CHWR @ <u>56°</u> F C None
Condenser Water Temperature: CWS @ _F CWR @ _F None
Hot Water Temperature: HWS @ 160°F & HWR @ 120°F when 24°F OAT and HWS @ 90°F & HWR 70°F when OAT is 60°F Fixed HWS @F & HWR @F None
ASHRAE APPLICATION HANDBOOK
ASHRAE 2011 Handbook: Chapter { } ASHRAE 2012 Handbook: Chapter { }{ }{ }
OWNER MECHANICAL DESIGN PARAMETERS
Equipment Location: 🗅 On Floor Being Served 🗅 In Central Equipment Room(s) 🗅 🗅 In Penthouse 🗅 Away From Building 🗅
Maintenance Outside Occupied Space: C Yes Serving primary HVAC equipment No
Redundancy: D For new central air-handlers D N+? D No
Equipment/System Expansion: 🗅 Increase Equipment Size By% 🔍 No
Indoor Air Quality at: D MERV Rating of [] for Pre-filters MERV Rating of [] for Final Filters
Acoustic & Vibration Criteria: Design Parameters by Acoustic Consultant Design Parameters by Acoustic Consultant
Specialty Room(s): For Basement Special Collections Room None
Occpancy Schedule: 24-7-365 Occupied/Unoccupied (List Hours of Occupancy)
DESIGN CRITERIA
Outdoor Dry Bulb & Wet Bulb: F Heating Season F/ F Cooling Season
Public/Common Area, Residential Rooms, Cafeteria, and Administration Space: Occupied Period Unoccupied Warm-up & Cool Down Set Points:F <%RHRH Heating Season & Cooling Season
Mechanical & Electrical Space and Back of the House Area: Occupied Period Unoccupied Warm-up & Cool Down Set Points:F Heating SeasonF <%RH Cooling Season Space Pressure: U
Area: 🗅 Occupied Period 🗅 Unoccupied 🗅 Warm-up & Cool DownF%RH Heating SeasonF%RH Cooling Season Space Pressure 🗅 🗅 🗅
ENERGY & ENVIRONMENT CRITERIA
LEED Certification: Ves No Other Certification (List the Program)
Annual Operating Budget: Energy Budget Organization Structure
Refer To The Facility File For Additional Operation & Maintenance Design Criteria
SPECIAL CONDITIONS & REQUIREMENTS

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