

EXPLORATORIUM AT PIERS 15/17

THE EXPLORATORIUM



PROJECT FACTS

Sustainable Site

 190,000 SF existing historical building on SF waterfront

Water

- 50-60% water savings
- 1 million gal/yr fixture savings
- Additional 2 million gal/yr by not using cooling tower

Energy

- 57% more efficient than ASHRAE 90.1 Baseline
- ~80% HVAC energy savings
- 47 kBTU/SF Forecasted

Indoor Environmental Quality

- 100% OA air handlers
- Displacement Ventilation
- 30% over ASHRAE ventilation

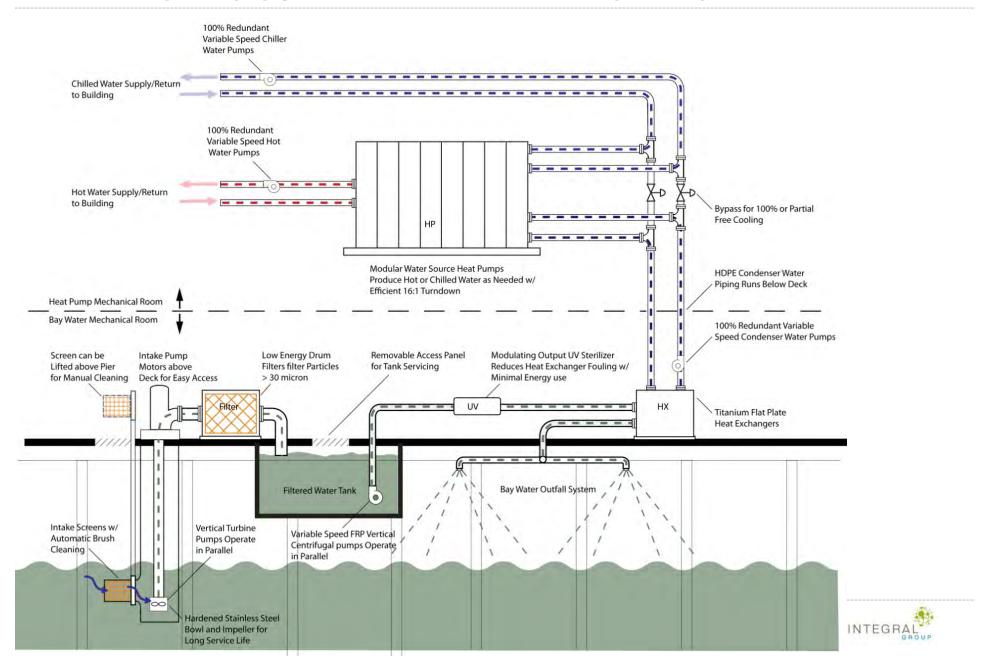


THE BUILDING





ALL ELECTRIC COMBINED HHW AND CHW CENTRAL PLANT



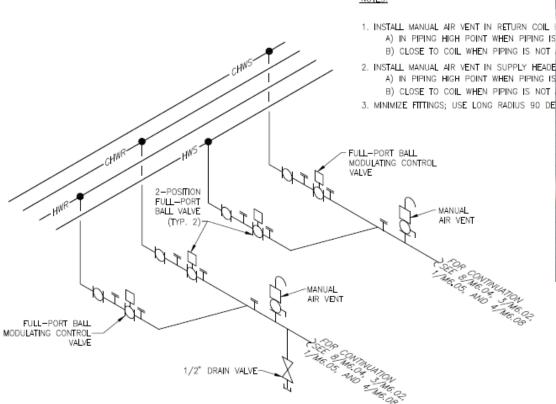
BAY WATER ROOM EQUIPMENT







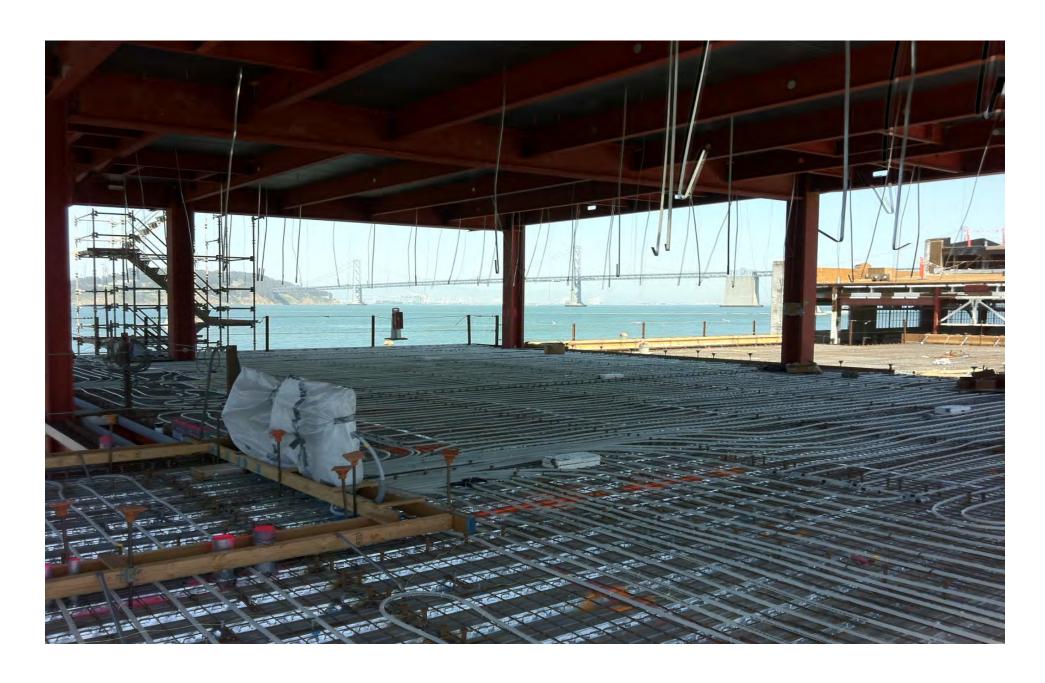
4-PIPE SYSTEM W/ ZONAL HW/CHW SWITCHOVER





- •-Variable Primary Pumping
- Each Zone Modulates to Maintain a Unique Slab Water Avg Temp Setpoint

2ND FLOOR SLAB PREP



CURRENTLY RENEWING



CURRENTLY RENEWING – FIRST NZE MUSEUM





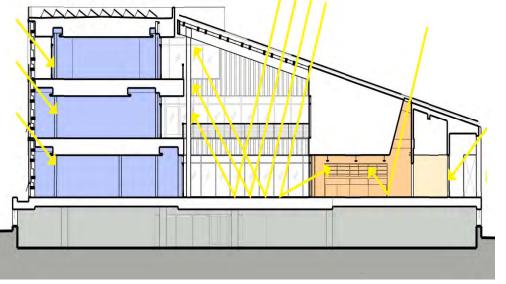
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FOREST STEWARDSHIP COUNCIL (FSC) CERTIFIED WOOD

All structural timber and wood members are logging of trees and use of plantation grown wood.



RECYCLED CONTENT

Recycled / reclaimed wood is used for the wall framing and possibly in posts. Fly ash is used in the concrete.



NATURAL DAYLIGHTING **AND VIEWS**

The local micro-climate and views are honored by using filtered direct sunlight in public spaces with strategic glass placement.



USE OF REGIONAL MATERIALS

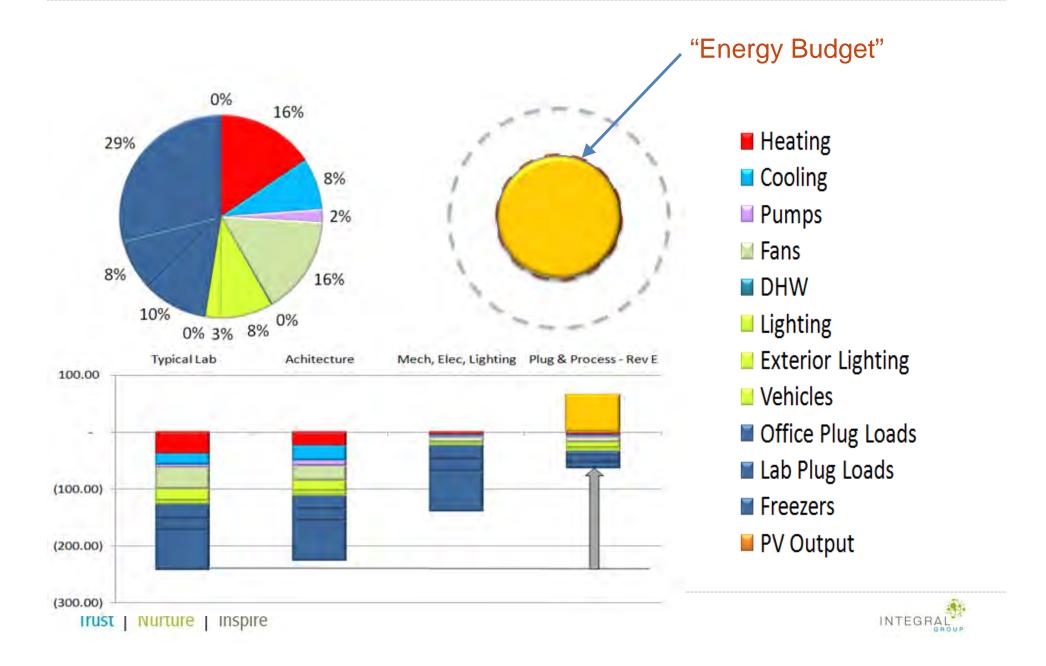
The stone used is from local quarries, and the concrete contains local aggregates.



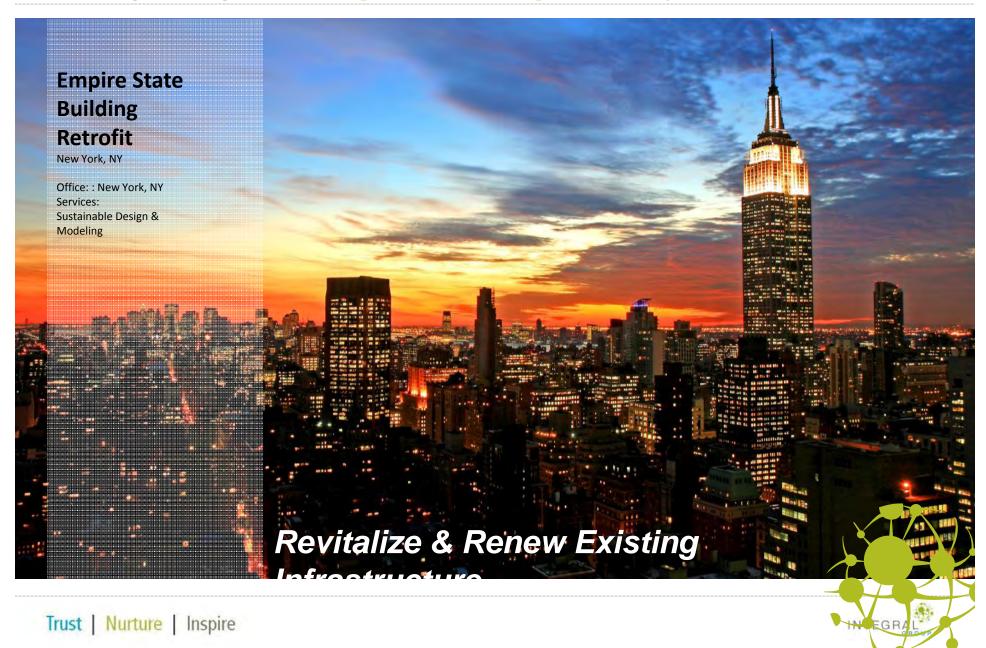
NATURAL VENTILATION

Operable windows improve the occupant comfort, and radiant floors cool and heat office spaces efficiently without unnecessary fan power.

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Talbot Norfolk Triangle EcoDistrict Charette



