



**UNIVERSITY OF HOUSTON  
Campus Facilities Planning Committee  
Request for Project Approval Form**

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| 1. | <b>Project Number</b>                  |  |
| 2. | <b>Project Name</b>                    | <b>Central Utilities Plant Expansion</b> |
| 3. | <b>Committee Date</b>                  | <b>August 14, 2009</b>                   |
| 4. | <b>Requesting Department</b>           | <b>Utility Services</b>                  |
| 5. | <b>Contact Name &amp; Phone Number</b> | <b>Kelly Buehler, x3-9637</b>            |
| 6. | <b>Presenter:</b>                      | <b>Spencer Moore</b>                     |
| 7. | <b>Description of Request</b>          | <b>Approval of Schematic Design</b>      |

**Background Information:**

A request to expand the footprint of the existing building by 8000 SF was submitted to the CFP Committee in April and was approved at that session. This item requests approval of the addition's elevations, material palette and site plan.

The expansion of the Central Plant is necessary to provide the additional reliable chilled water production capacity for planned new buildings or major renovations especially for science buildings in the campus core.

Expansion of the plant to the west was recommended within the 2006 Campus Framework Plan.

**Design Features**

The exterior base shown is on the attached rendering three feet high and consists of 4" thick Cast Stone with a finish to match the UH palette shell stone. Above the cast stone at the cooling towers and the masonry pillars at the fence the field brick color will match the UH palette of buff brick as used at the Rec Wellness, Calhoun Lofts, Cemo Hall and proposed for the Freshmen Housing project. The decorative panels, at the upper portion of the cooling tower and at the west end, will consist of an alternating raised brick pattern.

This brick shall be a complementary light colored accent brick to match the accent brick at the Calhoun Lofts.

The exterior curtain wall shall be a unitized aluminum frame system with vertical structural silicone, single-pane, 1/4" glazed joints with a clear aluminum Kynar finish. Spandrel panel glazing will be used at the top row of windows to conceal roof waterproofing and insulation materials. Only horizontal mullions with attached 18" wide perforated metal shading canopies will be visible from the exterior. All remaining windows will be 1" double pane insulated glass with a low-e coating; the color and opacity of all glass shall match the glass at the Welcome Center on campus.

All metal door surround panels, window frames, overhead doors and louvers shall match the window frame color at Calhoun Lofts. Exterior screen walls at the cooling towers fence shall consist of pre-manufactured high-grade AISI Type 316 stainless steel mesh fabric.

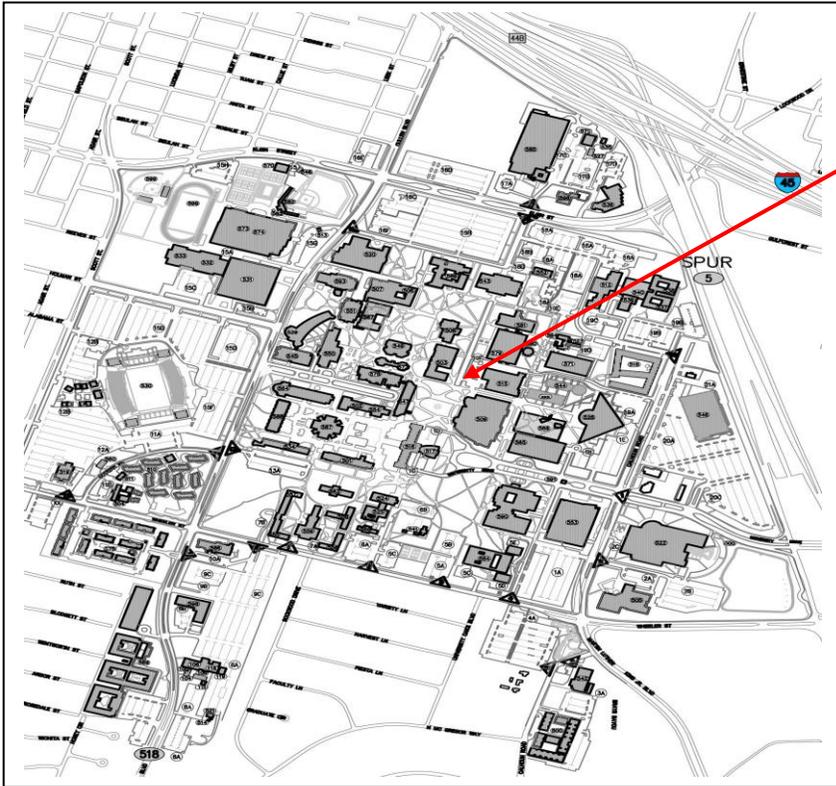
The roof will be a SBS Modified Bitumen 3 ply roof with a 1A90 wind uplift rating. Four rooftop exhaust fans will be used to ventilate unconditioned mechanical spaces below.

The height of the addition matches the higher of the two wall heights of the existing building.

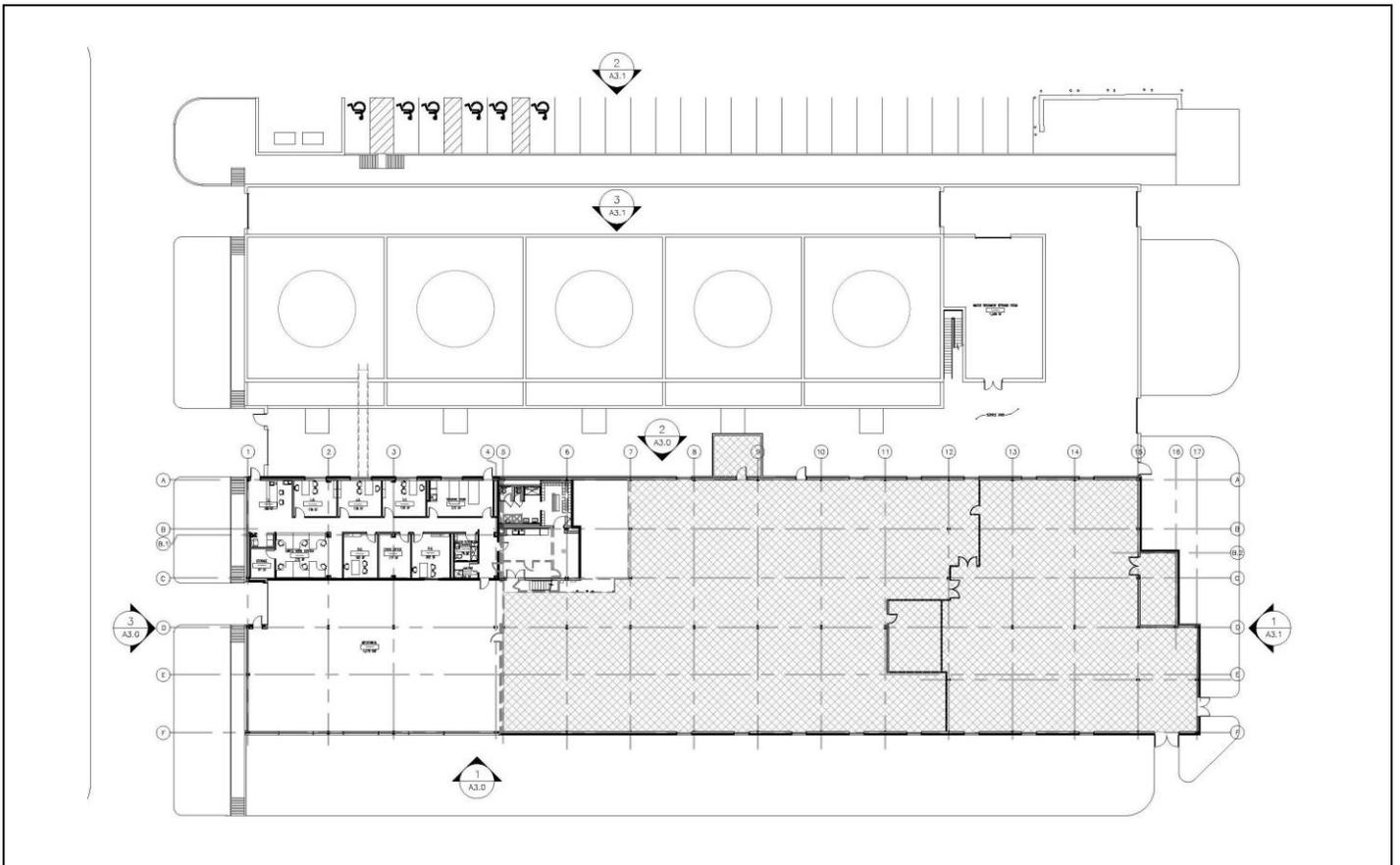
This project will also close a portion of the internal street immediately west of the central plant and convert that area to pedestrian green space. This area will include new landscaping, artwork and potentially a water feature. This change represents the first step toward closing the street as recommended in the 2006 Framework Plan.

<b>8.</b>	<b>Cost of Project</b>	<b>\$45,000,000.00</b>
<b>9.</b>	<b>Source of Funding:</b>	<b>CRDM/HEAF</b>
<b>10.</b>	<b>Proposed Start Date:</b>	<b>Upon approval</b>

Attachments



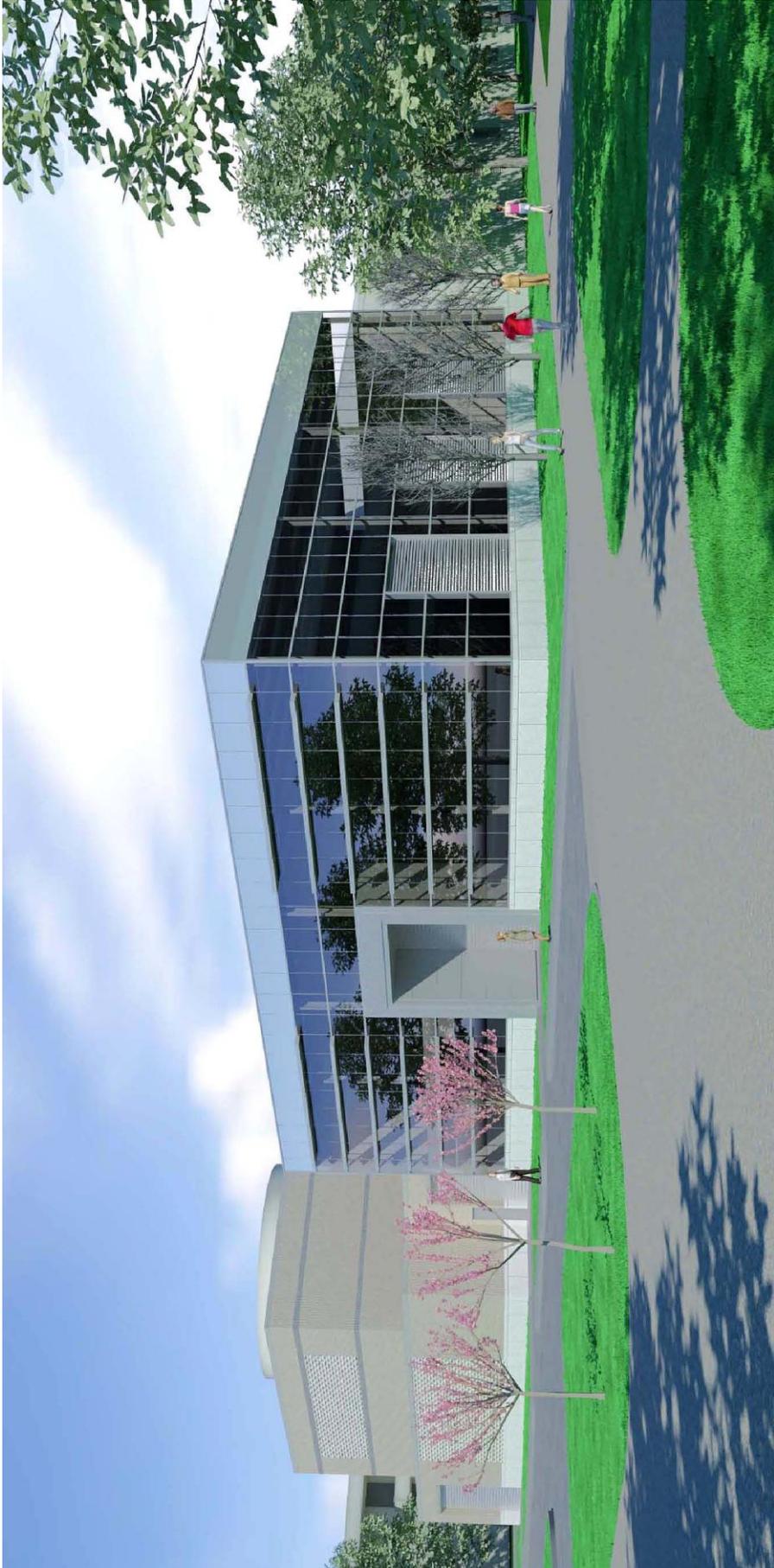
**Location Plan**



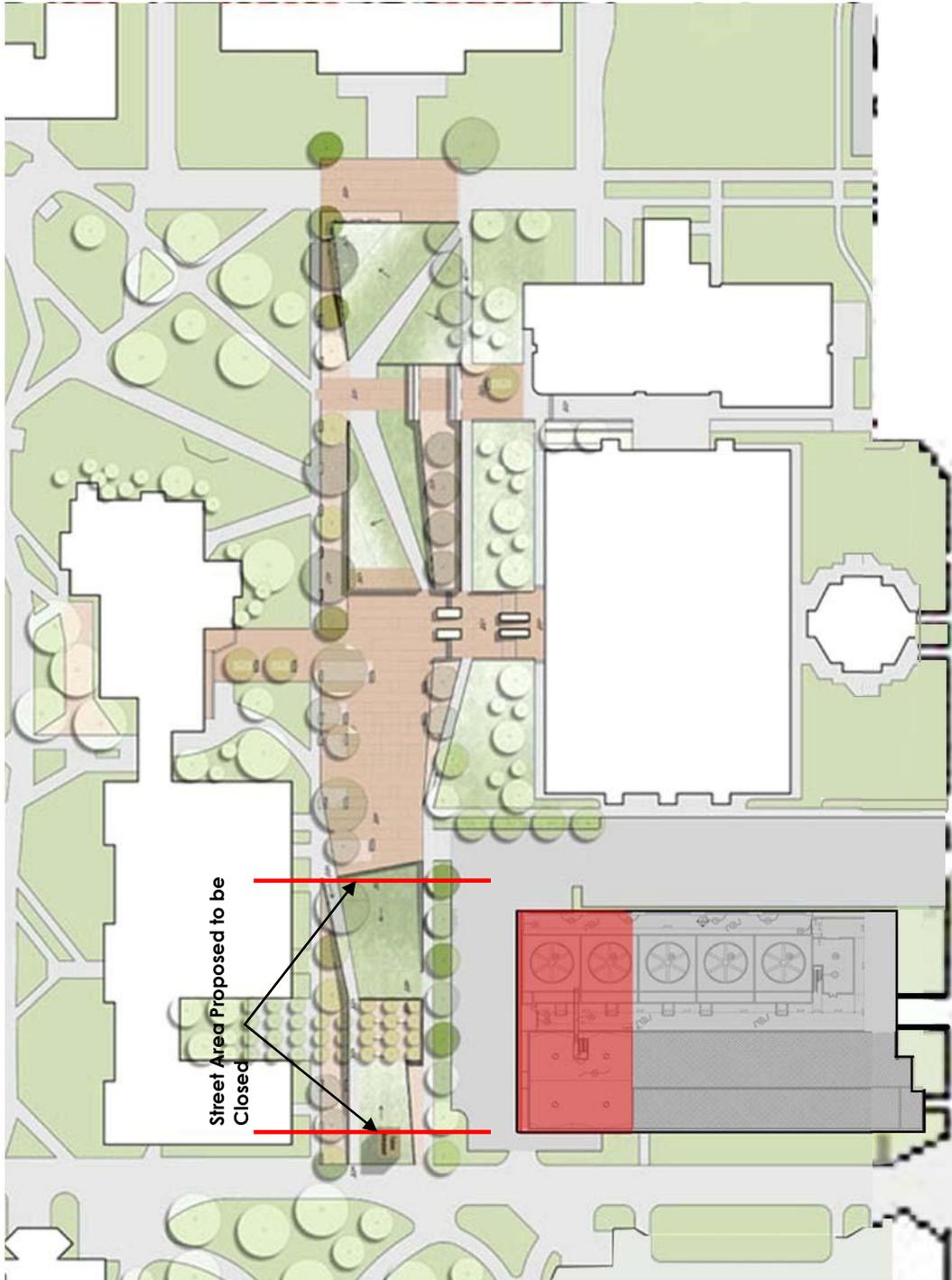
**Floor Plan**



**NW Elevation**



**SW Elevation**



**Central Utility Plant Expansion within  
Proposed College of Architecture  
Student Plaza**