



Infrastructure plans accomplished to date

- Chilled Water, Condensate and Steam Component Plan
- Capital Improvement Component Plan
- Electrical Capital Improvement Plan
- Landscape, Sidewalk & Irrigation Capital Improvement Component Plan
- Water, Sanitary & Storm Capital Improvement Component Plan
- Transportation Capital Improvement Plan
- Facilities Conditions Assessment

Critical needs identified to be addressed in the initial two year program as part of the integrated plan include:

Utilities

Electrical

- Cougar 3 Substation, third substation to serve the main campus, including Energy Research Park
- Campus feeder distribution,
 - Limit number of buildings and load on feeders
 - Eliminate aging infrastructure.
 - Eliminate building that are “piggy backed”
 - Consistency with equipment at building level fewer pieces of equipment to learn to maintain and to perform Preventive Maintenance (PM).

Civil

○ Domestic Water

- Water line materials for domestic service eliminate aging infrastructure and reduce water line breaks.
- Valve types for domestic water service to provide consistency and fewer valves to learn to perform Preventive Maintenance (PM).
- Consistent delivery of domestic water up to buildings to provide redundancy and isolate line segment to reduce potential water outages for repair

○ Fire Service

- Consistent delivery of fire service from domestic water up to buildings
- Valve types for fire service to provide consistency and fewer valves to learn to maintain and to perform Preventive Maintenance (PM).
- Facility Maintenance will work with Fire Marshalls Office to develop these standards.

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Mechanical

- Chilled Water- Currently looking at alternate methods of chilled water line construction/reconstruction as a significant cost savings.

Landscaping/Grounds-irrigation

- Metering
 - The Grounds Department is coordinating with Utility Services for the installation of separate water meters for irrigation.
- Sidewalk/Cart Path
 - Developing a sidewalk plan as part of the overall campus vehicular travel plan. A hierarchy system to designate which walkways can be utilized by Facility Maintenance vehicles
 - Developing the design standards for the minimum widths.

Signage

- College of Architecture has developed the new campus way-finding signage standards.
- Minor In-House Construction overseeing the installation of signs as a pilot project.
- The first phase of five signs is planned for completion in August 2013.
- Additional phases goal is to have 5 signs installed every six months.

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Preventive Maintenance

○ Civil Utilities

Water

- Exercise Fire Hydrant (Fire Marshall Office to facilitate)
- Exercise Valves (Facility Maintenance and Zone Maintenance)

○ Mechanical Utilities

Chilled Water

- Exercise Valves (Facility Maintenance and Zone Maintenance)

Steam and Condensate

- Exercise Valves (Facility Maintenance and Zone Maintenance)

Electrical

Preventive Maintenance (PM)

- Electrical gear from central plant to buildings.
- Start with 8 out of the 16 feeders (approximately 27 buildings).
- Initially we will do the research buildings since they are higher on the priority.
- Preventive maintenance (PM) will include cable testing, automatic transfer switch (ATS), breakers, transformers.

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Thank you.
Questions?