

Energy

Provide installation for the tenant supplied equipment procured for the energy monitoring and management research project per the attached materials list. Locations are to be as follows:

- South perimeter workstation pods or clusters on floors 5, 6, and 7 per the attached Sketch S-1. Pods encompass 6 workstations each for a total of 30 persons per floor.
- West perimeter pods on the 8th floor per Sketch S-2 as provided. Pods comprise of 4, 6, and 8 workstation configurations totaling approximately 42 persons.

Installation to include placement of occupancy sensors (provided by tenant) at each workstation per manufacturers' requirements and to provide data cabling and communication requirements between installed locations and Gateway located in C. Greenwell's cubicle on the 3rd floor.

In addition, provide options for the following:

- Cataloging of security equipment name plate power usage in main security room and entry.
- Installation of tenant supplied equipment to monitor energy usage of the 8th floor south pods per the layout in Sketch X-1
- Installation of tenant supplied equipment to monitor the lighting energy usage to coincide with the furniture system monitoring in Sketch X-1.

Water

Supply and installation of ultrasonic water metering device(s) that allows the reading of water usage by the external installation (non-inline application/no cutting of existing piping) on existing copper water piping currently installed within the facility. Meter should be applicable/adaptable to pipe sizes ranging from 1/2" to 2" in diameter.

It is intended to determine water usage of a typical floor (i.e. 7th floor) and the fitness center. Preliminary analysis indicates reading locations:

- 7th Floor
 - Main line floor feed (1)
 - Men's domestic H&C (2)
 - Women's domestic H&C (2)
 - Janitor's closet/mop sink (1)
 - Lounge (1)
 - Subtotal (7)
- Fitness Center
 - Men's domestic H&C (2)
 - Women's domestic H&C (2)
 - Subtotal (4)

Costs shall include reading the data collected by water meter(s) and relocating the meter(s) to different locations as shown above and/or as directed by building and research staff.

