

# **PRINCIPLES OF ENGINEERING**

September 30, 2010

## **I. PROGRAM REQUIREMENTS**

Refer to the project-specific Schedule of Spaces for student stations, square footage, and for any requirements that may differ from the prototype requirements listed below:

- 1 Laboratory
- 1 Material Storage Room
- 1 Project Storage Room

## **II. PROGRAM FURNITURE AND EQUIPMENT**

Refer to the Furniture and Equipment List for Owner-provided furniture and equipment.

## **III. SPECIAL CONSIDERATIONS**

### **1. Heating/Ventilation/Air Conditioning**

Standard, in accordance with the General Design Requirements section.

### **2. Acoustical**

Standard, in accordance with the General Design Requirements section.

### **3. Floor**

Standard, in accordance with the General Design Requirements section.

### **4. Walls**

Standard, in accordance with the General Design Requirements section.

### **5. Ceiling**

Standard, in accordance with the General Design Requirements section.

### **6. Lighting**

Standard, in accordance with the General Design Requirements section.

### **7. Windows**

Standard, in accordance with the General Design Requirements section.

### **8. Doors**

Standard, in accordance with the General Design Requirements section.

### **9. Water**

Provide one (1) sink with cold water in the Laboratory.

**10. Communications**

Provide a clock, speaker and intercom handset in the Laboratory.

Provide data outlets with adjacent power outlets in the Laboratory, number as directed, in accordance with SDHC standards.

Provide one (1) voice/data outlet in the Laboratory, in accordance with SDHC standards.

Provide a TV bracket with DVD/VCR bracket, CCTV jack, and adjacent power outlet in the Laboratory, in accordance with SDHC standards.

**11. Electrical**

Provide a duplex outlet at each Owner-provided student workstation in the Laboratory.

**12. Gas and Air**

Not Applicable

**13. Safety**

Standard, in accordance with the General Design Requirements section.

**14. Fencing**

Not Applicable

**15. Service Drives**

Not applicable

**16. Parking**

Not applicable

**17. Contractor-Provided Equipment and Casework**

Laboratory

Provide six (6) linear feet of base and wall cabinets, to include the sink and one (1) adjacent bank of graduated drawers, countertop to be 36" above the floor.

Material Storage Room

Provide four (4) general storage cabinets, in accordance with SDHC standards.

**18. Contractor-Provided Instructional Aids**

Laboratory

Provide a 12' wide x 4' high markerboard with a 4' wide x 4' high tackboard on one (1) side, bottom to be mounted 36" above the floor.

Provide a wall-mounted audio-visual projection screen, approximately 70" x 70", centered over the markerboard.

**19. Other Considerations**

In the Laboratory the Owner will provide a total of 24 computer workstations. The type of workstation and the configuration will vary depending on the program and the design of the space.

# SPACE RELATIONSHIPS

