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## E EQUIPMENT AND FURNISHINGS

### E10 EQUIPMENT

#### E1010 Commercial Equipment

##### E1010.01 Commercial Laundry and Dry Cleaning Equipment

Commercial washer and dryer for the athletic department; stainless steel cabinets and drums. For estimating, assume the following:

- Washer: 70 pound capacity, front loading, soft-mount; Wascomat Model EX670.
- Dryer: 100 pound capacity, front loading; Wascomat Model TD 100.

#### E1020 Institutional Equipment

##### E1020.01 Library Equipment

Library Equipment will be provided under a separate Furnishings, Fixtures and Equipment contract.

##### E1020.02 Gymnasium Equipment

**Scoreboards:** Electronic scoreboard for interior installation; multi-purpose type that can display scores for basketball and volleyball. Quantity: 2

**Basketball Equipment:** Overhead mounted folding backstops, with glass backboards for main court and for practice courts. Electronic shot timer mounted on each main court backstop. Quantity: 8

**Gymnasium Divider Curtains:** Electrically operated, vertical lift. Quantity: 2

**Mat Storage(Wrestling Mats):** Electrically operated mat lifters, 2-mat capacity.  
Quantity: 1.

**Batting Cages:** Electrically operated mesh batting cages. Quantity: 2.

**Wall Mats:** Wall protection mats on all gym walls except at bleachers.

**Volleyball Equipment:** Floor sleeves for volleyball net posts. Quantity: 4 sets.

##### E1020.03 Laboratory Equipment

**Fume Hoods:** One two-sided fume hood in each science classroom.

**Flammables Storage Cabinets:** Full-height metal storage cabinets for storage of flammable chemicals; one each for Chemistry and Biology departments.

Acid Storage Cabinets: Full-height metal storage cabinets for storage of corrosive chemicals; one each for Chemistry and Biology departments.

Goggles Storage Cabinet: One per Science Classroom.

First Aid Kit: One per each Science Classroom and Science Prep Room.

Projecting window greenhouse unit for each of eight science classrooms.

## **E1020.04 Theater and Stage Equipment**

Manufacturer: A company specializing in theatrical rigging; JR Clancy, Inc., Tiffin Scenic Studios; Texas Scenic Studios, or equal.

Type: Manual rigging; appropriate to a stage with fly loft. Include the following components:

- Fire Curtain
- House Curtain Rigging
- House Curtain Draperies
- Counterweight Rigging.
- Stage Draperies
- Miscellaneous Rigging and Equipment

## **E1020.05 TV Studio Equipment**

Curtains: Three-track curtain assembly with three curtains. Curtains include one Chromakey blue; colors of the other two to be determined.

Equipment Grid: 4-foot by 4-foot threaded rod assembly, hung from overhead structure.

## **E1020.06 Audiovisual Equipment**

Projection Screens, Electrically Operated: Large size screens, matte white fabric face; motor in roller.

- Locations: Auditorium, Cafeteria, Gymnasium and Library.

Projection Screens, Manually Operated: Manufacturer's standard spring-roller-operated units designed and fabricated for wall or ceiling installation and consisting of case, screen, mounting accessories, and other components necessary for a complete installation.

- Locations: One per teaching space, including general education classrooms, art classroom, science classrooms, and health classrooms.

Projectors: Refer to Part D

## **E1020.07 Art Classroom Equipment**

Pottery Kilns: Two electric kilns, to be installed in the kiln room in the art suite.

## E1030 Vehicular Equipment

### E1030.01 Loading Dock Equipment

**Dock Bumpers:** Heavy molded-rubber bumpers at loading dock area.

## E1040 Food Service Equipment

**Kitchen and Servery:** A fully equipped kitchen and servery will be provided with the capacity to serve 1100 students daily in three seatings. A full description of the Food Service program, an equipment schedule and a preliminary cost budget is included within Appendix B.

## E1090 Other Equipment

### E1090.01 Residential Appliances

**Electric Ranges:** Family and Consumer Science Classroom - Energy Star rated.

**Electric Cooktop:** Family and Consumer Science and Life Skills Classrooms; for the wheelchair accessible cooking station. Energy Star rated

**Electric Wall Oven:** Family and Consumer Science and Life Skills Classrooms; for the wheelchair accessible cooking station. Energy Star rated

**Microwave Ovens:** Energy Star rated

- Over-the-range type with externally vented exhaust fan will be provided for the Family and Consumer Science Classroom.
- Under-cabinet type will be provided for the Family and Consumer Science Classroom, Teacher Dining Room, and Administration Kitchenette, Life Skills classroom.

**Refrigerators:**

- Frost-free, bottom freezer; with automatic ice-maker: Two for the Family and Consumer Science Classroom; one in the Life Skills classroom; two in the Teacher Dining Room, one in the Administration Kitchenette and one in the Nurse's Suite.
- Frost-free, bottom freezer, no ice maker: One in each Science Prep Room.

**Freezers:** Frost-free, upright; for the Family and Consumer Science Classroom

**Dishwashers/Glass Washers:** Residential type dishwashers for the Family and Consumer Science Classroom and Life Skills classroom. Three glass washers for the Science Prep Rooms.

**Clothes Washer and Dryer:** One washer and one dryer for each of the Family and Consumer Science Classroom and Life Skills classroom. One Stacked washer and dryer unit for the custodial staff and a second one for the kitchen/food service area. All washers and dryers listed above shall be Energy Star rated

## **E1090.02 Ice Making Machines Energy star rated**

Athletic Trainer's Office: Capable of producing 300 lbs of flaked ice or cubes per day.

Science Prep Room: Capable of producing 60 lbs of cubes per day. Three units.

## **E1090.04 Portable Riser Systems**

Portable riser systems for the Choral and Band rooms are not in this Contract. They will be purchased under the FF&E (furniture, fixtures and equipment) contract.

## **E20 FURNISHINGS**

### **E2010 Fixed Furnishings**

#### **E2010.01 Fixed Casework**

**Modular Casework:** Hardwood cases and interiors with plastic-laminate clad doors and drawer fronts; AWI (American Woodwork Institute) Premium Grade, full-flush overlay design.

Typical classrooms will have three (3) full-height wardrobe and storage cabinets along the corridor partition, faced with marker board to act as another teaching wall, but may have open front cabinets. Interior shelves in cabinets will be adjustable. All doors will have key-operated cam locks.

A few atypical classrooms will have a continuous counter, open below, wall mounted top cabinets, and full-height wardrobe and storage cabinets along the corridor partition, and may have open front cabinets. Interior shelves in wall and tall cabinets will be adjustable. All doors will have key-operated cam locks.

Science Labs will have base, wall mounted top cabinets, full height wardrobe and storage cabinets, and peninsula tables. In Chemistry Labs, the peninsulas will have base cabinets. Base cabinet drawers will be on heavy-duty slides. Interior shelves in wall and tall cabinets will be adjustable. All doors will have key-operated cam locks.

Counters, Countertops and Table Tops: Fabricated from the following materials; 4-inch high backsplash where tops meet a vertical wall or cabinet surface.

- General Classrooms, Physics Classrooms, Shops, Drama Classroom: Plastic-laminate-clad tops with solid wood front edge.
- Chemistry and Biology Classrooms: Chemical-resistant cast epoxy tops with integral resin sinks. Plumbing fittings which are to be installed in epoxy tops are furnished by the casework fabricator for installation by the plumber.
- Graphic Arts and Photography Wing: Epoxy tops.

**Custom-Fabricated Casework:** Wood cases, interiors, door and drawer fronts with solid wood trim, fabricated to AWI (American Woodwork Institute) Premium Grade standards. Base-cabinet and table tops will be of solid surfacing material.

- Includes: Main office reception desks, library circulation desk, built-in library shelves

**Corridor Display Cases:** Custom-fabricated wood display cases. Deep, wood-framed units, back surface inside case covered with tackboard material, tempered glass shelves supported on metal standards and brackets. Sliding tempered glass doors, with locks. Fabricated to AWI (American Woodwork Institute) Premium Grade standards. Approximate dimensions and quantities of display cases are listed below.

- Full height units, 24-inches deep by 72-inches wide by 44-inches high; 4 cases.
- Full height units, 12-inches deep by 72-inches wide by 80-inches high; 12 cases.
- Half height units, 12-inches deep by 72-inches wide by 44-inches high; 8 cases.

**Window Stools:** Solid surfacing material.

**Adjustable Shelving:** Provide utility shelving for storage rooms, copy rooms, and similar locations: Wood shelves with solid-wood edge banding, supported on extra-heavy duty double slot extruded aluminum stanchions and brackets; 12" deep shelving.

**Musical Instrument Storage Cabinets:** Not in this Contract. Manufactured cases with welded wire doors will be purchased under the FF&E (furniture, fixtures and equipment) contract.

**Indoor Air Quality (IAQ):** To the extent feasible, casework specifications will require the use of panel materials that have been tested and certified for low emissions of volatile organic compounds (VOCs) and that are made with no additional formaldehyde.

## E2010.02 Window Treatments

**Shades:** Dual roller shade assemblies with a room darkening shade band on one roller and a solar control (sheer) fabric on the other roller.

- Manually-operated dual shade-band roller shades will be provided at exterior windows in all teaching spaces.
- Electrically-operated dual shade-band roller shades will be provided in the Library and cafeteria.

**Horizontal Blinds:** Horizontal blinds with 2-inch wide slats will be provided at exterior windows in the administration area and other offices. Manually operated.

**Vertical Blinds:** Vertical blinds with 2-inch vanes will be provided at interior windows ("borrowed lights") in the administration area and other offices, and in the Library Media Center.

## E2010.03 Entrance Grille and Mats

Two-part walk-off mat system will be provided at the main entrance.

- **Entrance Grille:** Drop-through extruded aluminum grille, recessed in the floor.
- **Walk-Off Mat:** Carpet type mat or carpet tiles, surface mounted.

## **E2010.04 Fixed Multiple Seating**

**Fixed Audience Seating:** In the Auditorium, chairs with upholstered fold-up seats and upholstered back. Seating layout will include areas for wheelchairs to comply with the Americans with Disabilities Act and with the Regulations of the Massachusetts Architectural Access Board. Aisle seats will incorporate aisle lighting.

- Quantity: 660.

**Telescoping Stands:** In the Gymnasium, electrically-operated telescoping bleachers. Bleacher layout will include areas for wheelchairs to comply with the Americans with Disabilities Act and with Massachusetts Architectural Access Board (MAAB) rules.

- Capacity: 1000 seats.

## **E2020 Movable Furnishings**

Movable Furnishings will be provided under a separate Furnishings, Fixtures and Equipment contract.

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