

Division 11 – Equipment

11.1. General

- a. The user program will identify which equipment is to be specified as part of the general contract and which equipment is to be provided by the University. Refer to **APPENDIX AB – OFOI CFCI MASTER LIST** as a reference for this discussion and to confirm what is to be provided by the General Contractor.
- b. The A/E shall coordinate with the ODU Project Manager to obtain a list of all University provided moveable equipment. The A/E shall be responsible for specifying all electrical and mechanical connections for University provided equipment to make such equipment functional upon occupancy. Moveable equipment will be specified by the University unless specifically included in the A/E's scope of work.
- c. The A/E shall specify all fixed equipment as required to respond to the program. Where applicable, the ODU Project Manager will advise the A/E of experience with specific types and manufacturers.
- d. Submittals on all A/E specified equipment shall include rough-in drawings.
- e. The A/E shall consider all aspects of equipment installation including receiving, unloading, and installation when designing the building to ensure that equipment can be transported to, and installed in, the appropriate final location.
- f. All equipment specified by the A/E with “or equals” must have the same MEP and space requirements. If an “or equal” is listed the A/E must provide model numbers to assure the manufacture has equal equipment. DO NOT provide approved manufacturers only.

11.2. Parking Control Equipment (Reserved)

11.3. Loading Dock Equipment

- a. Dock Lifts shall be built-in, scissors-type, single-leg, hydraulic dock lift of project specific capacity, size, and construction; complete with controls, safety devices, and accessories required.
- b. Laminated-Tread Dock Bumpers fabricated from multiple, uniformly thick plies cut from fabric-reinforced rubber tires. Thickness: 4-1/2 inches (114 mm), Horizontal Style: 10 inches (250 mm) high by 24 inches (610 mm) long.

11.4. Residential Appliances

- a. Residential Appliances located in Residence Halls shall be included in the design documents and shall be purchased and installed by the general contractor. All appliances are required to meet the American with Disabilities Act, 2010 Design Guidelines.
- b. All appliances shall be Energy Star.

11.5. Breakroom Appliances

- a. The A/E shall plan for a 20.8 Cubic standard refrigerator with a freeze on top with the option for an internal ice maker. The A/E shall confirm with the building user group if an icemaker is desired.
- b. All appliances shall be Energy Star.

11.6. Foodservice Equipment

- a. Foodservice equipment, if required, will be specified by the A/E's food service consultant in coordination with the universities food service provider. The potential for existing food service equipment to be relocated from an alternate location for use in the project exists and should be coordinated early in the design with the ODU Project Manager.

11.7. Library Stack Systems

- a. Library equipment, if required, will be specified by the A/E's consultant and included as part of the construction contract.

11.8. Projection Screens

- a. Projection screen specification (size, proportions, motorized, finish, mounting, enclosure, etc.) shall be provided by Assistant Director of Classroom & Learning Space Technologies for all classrooms. The A/E shall show the location size and infrastructure of all screens in the construction documents. The A/E shall coordinate all connections required to make the screens functional at occupancy.
- b. Manually operated ceiling or wall mounted screens are provided by the University. Concealed blocking or reinforcing for mounting must be specified by the A/E.
- c. Electrically operated screens for large lecture halls, auditoriums, etc. are to be specified with fully automatic operation. Two control stations (front and rear of room) are required. The specifications for electrically operated screens shall be coordinated with the Assistant Director of Classroom & Learning Space Technologies. Electrically operated screens shall be included in the construction documents by the A/E and shall be fully detailed.

11.9. Laboratory Fume Hoods (Reserved)

11.10. Folding and Portable Stages (Reserved)

11.11. Stage Curtains (Reserved)

11.12. Rigging – Theater (Reserved)

11.13. Gymnasium Equipment (Reserved)

11.14. Athletic Equipment (Reserved)

11.15. Playground Equipment and Structures (Reserved)

11.16. Facility Waste Compactors

- a. The A/E shall coordinate with the ODU Project Manager on whether a waste compactor shall be part of a project and the type of compactor to be used.