



DIVISION 14 CONVEYING SYSTEMS

GENERAL

The Contractor shall provide the University with the final inspection report indicating that the elevator installed complies with all appropriate state and federal codes and regulations. This includes all associated items provided by the manufacturer.

CAR ENCLOSURES

Emergency telephones shall dial into the University Safety and Security Service. Telephone number 202-885-2527.

For elevators that will have utility use, cars may be furnished with removable wall pads and hooks, as well as with handrails. The Designer is to clarify with the Owner.

Cars shall contain a lighted floor indicator above the door or in the return column; soffit mounting is not acceptable. Color shall be blue. Exception Mary Graydon Center passenger elevators indicators are currently red. Consult with Owner to confirm blue or red indicator.

An electrical receptacle for housekeeping purposes shall be provided in the corridor adjacent to the elevator landing on each floor.

Interior cab finish companies shall fall under the control of the elevator installation contractor. Cab finishes shall be determined and approved by the University approved architect.

MACHINE ROOMS, PIT AREAS AND PENTHOUSES

Where equipment is subject to severe or sudden vibrations, sound-deadening material shall be used to isolate any sounds or vibrations from the supporting floor or wall.

Machine rooms shall comply with the latest applicable code with regards to its dimensions, fire protection and atmospheric control.

ELEVATOR CONTROLLERS

Elevator controllers shall be non-proprietary in their design. This is defined as having equipment that in which at least three elevator companies can work on without the use of special tools, passwords and any more technical expertise than is already possessed. Typical non-proprietary manufacturers are ones such as Motion Control or GAL. Proprietary manufacturers are ones such as OTIS, Thyssen-Krupp, and Kone. Although the aforementioned companies tend to offer their own manufactured systems



which are proprietary, if specified, these can install non-proprietary systems.

The installation company shall provide all necessary tools for the purpose of monitoring and or adjusting elevator controllers. This includes any special software or handheld devices normally used.

ELEVATOR DOOR EQUIPMENT

Elevator door equipment shall be from GAL using the closed loop door operator MOVFR system

TRACTION ELEVATORS

When the building design prevents the use of a penthouse machine room or the decision is to not install hydraulic elevators, the installation of Machine Room Less (MRL) traction type elevators can be installed. MRL elevators shall be such that it will not require proprietary tools or equipment to be serviced.

HYDRAULIC ELEVATORS

Hydraulic elevators can be either a single jack system or a dual post jack system. Choice of which jack to install is dependent on ground conditions.

To protect elevator single jack units, the casing and any underground piping shall have an approved coating designed to resist electrolytic and chemical corrosion. The jack shall be installed in a double bottom cylinder. Where drilling for full travel is unavailable, consider using an inverted telescopic jack. The Consultant shall inspect the casing prior to back filling.

VERTICAL WHEELCHAIR LIFTS

The Consultant should submit complete product information to the Project Manager for approval prior to ordering the lift and constructing the surrounding areas. The information should cover major components; lift dimensions, control diagrams, surrounding construction configurations and electrical connections.

The Consultant shall submit to the Owner a certificate indicating that the lift complies with the applicable D.C. Code. This includes all associated items provided by the manufacturer.

Self-closing gates and associated items at top and bottom levels, along with all "electromagnetic" and mechanical hardware, shall comply with the D.C. Vertical Wheelchair Lift Code.

The lift's rated speed shall not exceed 40 feet per minute.



The following guidelines for platforms and ramps shall be observed:

- platforms shall be at least 36" wide and have an inside area of not more than 12 square feet
- platform surfaces shall be constructed of material that is relatively smooth and skid-proof
- ramps shall be provided as required for access to platforms
- ramps shall be designed and constructed as required by the D.C. Vertical Wheelchair Lift Code
- platforms shall be designed and constructed to prevent wheelchairs from leaving the platforms prematurely

STAIR LIFTS

Design shall be in accordance with the conditions in which it is installed. If a stair lift is intended to be exposed to the outside elements, then the design and or equipment shall be such that all operating components will resist corrosion or complication due to the elements.

END OF DIVISION 14