



Cherry Creek School District Technical Guidelines - 2020

DIVISION 14 - CONVEYING SYSTEMS

14 24 00 – HYDRAULIC ELEVATORS

PART 1 - GENERAL

- A. Summary - Section includes:
 - 1. Holeless Hydraulic elevator and related equipment.

- B. Referenced Standards/Minimum Criteria:
 - 1. ASME/ANSI Safety Code for Elevator and Escalators.
 - 2. ASME A17.1 and Applicable State and Local Codes.

- C. Submittals Required:
 - 1. Shop drawings.
 - 2. Color options/samples of elevator cab.
 - 3. Control button graphics.
 - 4. Quality Control Submittals: Submit written report of required operations test at completion of the project.

- D. Restrictions/Critical Criteria:
 - 1. Contractor to furnish maintenance and call-back service of equipment provided for a period of one (1) year after Date of Substantial Completion. This service shall include regular examination of the installation by competent and trained employees of elevator manufacturer and shall include necessary adjustments, greasing, oiling, cleaning, supplies, and parts necessary to keep the equipment in good operation; except such parts required due to mis- use, accidents, or negligence not caused by the manufacturer.
 - 2. General: Elevator shall be installed according to manufacturer's instructions and all reference standards.
 - 3. Wiring, Piping, and Oil: Provide necessary wiring in the hoistway in accordance with the NEC, to connect the operating buttons and switches to the control board in the power unit. Wiring shall be in rigid conduit or electrical metallic tubing except to moving apparatus which shall be connected by short lengths of flexible conduit. Provide necessary pipe and fittings to connect the power to the jack unit, and oil of the proper grade. Underground conduit and piping shall be adequately protected against corrosion.
 - 4. The elevator manufacturer shall make, in the presence of the Architect and School District, a running speed test with full maximum load on the elevator car to determine whether the elevator equipment as installed, meets the speed, capacity, and other requirements of the specifications.



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PART 2 - PRODUCTS

- A. Acceptable Manufacturers:
1. Schindler Elevator Corp. www.schindler.com.
 2. Otis Elevator Co. www.otis.com.
 3. Kone, Inc. www.kone.us.
 4. Approved substitute
- B. Elevator Equipment:
1. Manufacturer and Model: Schindler 300A Low-rise Hydraulic Elevator.
 2. Type: Hydraulic, holeless.
 3. Elevator Type: Passenger.
 4. Floors Served: 2 or 3.
 5. Travel: To be determined by design.
 6. Number of Landings: 2 or 3.
 7. Number of Openings: 2 or 3 in line.
 8. Power Supply: 480V, 3 phase, 60 cycle, reduced voltage starting (verify with Electrical Design Engineer).
 9. Capacity: 2,000 lb.
 10. Minimum Up-Speed: 100 feet per minute fully loaded.
 11. Car Size: 5'-8" X 4'-3".
 12. Operation: Simplex - selective collective.
 13. Hoistway Entrance: Hollow metal.
 - a. Opening Size: 3'-0" wide by 7'-0" high single speed, side opening.
 - b. Finish: Baked enamel.
 - c. Door Operation: DC power.
 - d. Signals: Illuminated car and hall pushbuttons, hall pushbuttons key operated; light up position indicator in car, 2 car riding lantern and gongs in entrance columns; NEII handicapped package.
 14. Leveling: Two-way leveling.
 15. Emergency Lighting: Automatic emergency light and alarm system.
 16. Special Features Required: Exhaust fan, photo electric eyes, protective pads for cab walls, oil viscosity control, low oil control. Emergency power back-up to provide for return to Level 1 and open door if power outage.
 17. Sill Angle: Steel sill angle, standard of manufacturer for groutless mounting.
- C. Elevator Car: Car shall be provided with painted steel entrance columns and transoms; plastic laminate side walls and rear returns; #4 stainless steel front returns and transom; stainless steel handrails on three (3) sides; base of black plastic laminate; protection pads and buttons; one- speed exhaust fan and false ceiling with fluorescent tubes above. Floor covering to be as selected by the school district.

END OF SECTION