

# Summary of Modifications/Changes in this Update

This Summary of Changes is for information only.  
It is not a part of the referenced document, and should not be used for project documentation.

U.S. Department of Veterans Affairs ♦ Office of Construction & Facilities Management

## **DATE OF THIS VERSION:**

July 1, 2023

## **TITLE OF DOCUMENT:**

PG 18-10 Elevator Design Manual

## **DATE OF VERSION BEING SUPERSEDED (old):**

January 1, 2023

## **DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):**

PG 18-10 Elevator Design Manual

## **SUMMARY OF CHANGES IN THIS VERSION:**

Two sentences are the same so they cannot be missed in 1. B. & 3. C.

### **1 . GENERAL REQUIREMENTS – NEW SETION B.**

- B. Separate lobbies are required for Patient Transport Elevators and must not be shared with Passenger (Public) Elevators and Material Transport Elevators as per the VA National Infectious Diseases Service (NIDS).

### **3 . ELEVATOR TYPE, SIZE, AND CAPACITY - NEW 2<sup>ND</sup> SENTENCE**

- C. Patient transport elevators (deeper than wide) must only be used for patient transport and be sized to accommodate a bariatric bed with attendants for patient care, life support equipment, and movement. Separate lobbies are required for Patient Transport Elevators and must not be shared with Passenger (Public) Elevators and Material Transport Elevators as per the VA National Infectious Diseases Service (NIDS).

H. Elevator capacity and platform design for healthcare facilities: New last sentence

- 1) Passenger elevators, (wider than deep) with a minimum 48 inches wide X 84 inches high center opening doors, must be a minimum 4,000 lb (1818 kg) capacity with 42.2 sq ft (3.92 sq m) inside net platform area. Class "A" loading rated. 54 inches wide center opening doors are preferred for faster passenger transfer.

Change 1<sup>st</sup> sentence to: two speed side opening doors,

- 4) Material Handling elevators, (deeper than wide) minimum 54 inches wide X 84 inches high two speed side opening doors, must be a minimum 5,000 lb (2250 kg) capacity, 50 sq ft (4.65 sq m) or 6,000 lb (2727kg) capacity, 57.7 sq ft (5.36 sq m) inside net platform area. Class "C3" loading rated.

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**DATE OF THIS VERSION:**

January 1, 2023

**TITLE OF DOCUMENT:**

PG 18-10 Automated Transport Systems- Elevator Design Manual

**DATE OF VERSION BEING SUPERSEDED (old):**

October 1, 2022

**DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):**

PG 18-10 Elevator Design Manual

**SUMMARY OF CHANGES IN THIS VERSION:**

Replaced the word “shall” with “must” in entire document. Most instances of the word “should” was replaced with the word “must”.

2.G. end of 2<sup>nd</sup> sentence changed to: “unless a waiver is applied for and granted by the VA’s Authority Having Jurisdiction (AHJ)”.

6.A. last sentence added: Vandal Resistant

6.B. 1<sup>st</sup> sentence added: Vandal Resistant

6.B. 2<sup>nd</sup> sentence changed to: illuminated floor number, letter, or arrow

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## DATE OF THIS VERSION:

October 1, 2022

## TITLE OF DOCUMENT:

PG-18-10 ELEVATOR DESIGN MANUAL

## DATE OF VERSION BEING SUPERSEDED (old):

September 1, 2022

## DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):

PG 18-10 ELEVATOR DESIGN MANUAL

## SUMMARY OF CHANGES IN THIS VERSION:

1. General Requirements add:
  - D. **9) National Elevator Industry, Inc.  
NEII-1 Building Transportation Standards and Guidelines**
3. Elevator Type, Size, and Capacity modify to read:
  - G. **1) Parking Garages shall be considered part of the Healthcare Facility and shall have elevators a minimum 4,000 lb capacity, 42.2 net sq ft platform area, 48 inches wide x 84 inches high center opening doors.**
  - G. 2) Elevator sizes may vary for non-healthcare facilities. Minimum size shall be 1125 kg (2500 lb) capacity, **29.1 net sq ft platform area**, to meet the requirements of PG-18-13 **with 42 inch wide x 84 inches high center opening doors.**
  - H. 3) Patient Transport/Material Handling elevators, (deeper than wide) minimum 54 inches wide x 84 inches high center opening doors, shall be a minimum 5,000 lb (2250 kg) capacity, 50 sq ft (4.65 sq m) **or 6,000 lb (2727 kg) capacity, 57.7 sq ft (5.36 sq m)** inside net platform area. The elevator car **shall be sized to accommodate a patient bed with attendants and to transport larger pieces of hospital equipment.** Class "C3" Loading.

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**DATE OF THIS VERSION:**

September 1, 2022

**TITLE OF DOCUMENT:**

PG-18-10 ELEVATOR DESIGN MANUAL

**DATE OF VERSION BEING SUPERSEDED (old):**

December 1, 2021

**DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):**

PG 18-10 ELEVATOR DESIGN MANUAL

**SUMMARY OF CHANGES IN THIS VERSION:**

Table of Contents:

Add new Section 11. FUTURE VERTICAL EXPANSION of ELEVATORS and MATERIAL TRANSPORT SYSTEMS

Renumber ELECTRICAL REQUIREMENTS TO SECTION 12.

Renumber DRAWINGS TO SECTION 13.

Add to SECTION 1.G. end of second sentence “and the AHJ shall verify applicability to the project.”

NEW Section 2.E.:

All multi-level parking facilities, regardless of user, shall include a minimum of two passenger elevators. Elevators and adjacent stairs should be located in the logical pedestrian path, between the parking area and the medical center entrance. Where possible, stairs should be placed in a more prominent and visible location than elevators to encourage persons without

disabilities to use stairs. Depending on the size of the parking facility and the presence of oversized vehicles within it, it is desirable to locate Handicap spaces, adjacent to the elevators. The number of elevators provided will depend on the travel patterns of the users of the parking facility. PARKING STRUCTURE DESIGN SECTION 7-15 Parking Design Manual rev 8/1/2014 April 2013 Parking structure elevator design and specifications shall be in conformance with VA Transport System (Elevators) Design Manual. Note that this manual prohibits the specification of proprietary elevator equipment and tools. ADA/VA Barrier Free Design Standard PG 18-13 elevators must be provided in all installations. High-capacity elevators should be specified since these elevators will be located in an outdoor, exposed environment. Other design considerations include the following:

- 1) Provide traction elevators, with stops at all levels of parking structures. Overhead machine rooms shall have HVAC, as required by the Elevator Code and Elevator.
- 2) Provide glass-backed cabs and hoist ways, where applicable. Provide HVAC in each elevator where required by code.
- 3) Provide stainless steel radius frames and doors at all lobbies. Interior finishes shall include stainless steel walls, vandal-resistance lighting, and rubber flooring.
- 4) Door operators shall be closed loop.
- 5) Traveling cables should include capabilities for telephone and CCTV (2 coaxial cables required).
- 6) Coordinate call buttons with floor identification for parking levels.
- 7) If required, the fire alarm panel shall be located in the first floor lobby.

Change Section 2.G. third sentence:

Paths of travel with inclines will reduce the total allowable travel distance.

Change Section 3.G.1):

1) Parking Garages shall be considered part of the Healthcare Facility and shall have minimum 4,000 lb capacity elevators.

Previous item 1) changes to 2)

Section 3.I. Add new Paragraph 3):

3) All traction elevators shall have a device, direct acting on the suspension means, to prevent ascending over speed and unintended motion away from the landing, including loss of traction.

Section 6.E. Paragraph 1):

1) Provide a complete, ADA compliant, auto dial communication system that is compatible with the VAMC's telephone system. Two-way communication device shall be in full compliance with ASME A17.1 Rule 2.27.1.1 (2019) or later editions.

New Section 11:

#### 11. FUTURE VERTICAL EXPANSION of ELEVATORS and MATERIAL TRANSPORT SYSTEMS

A. Locate elevators, dumbwaiters, and transport systems, requiring future vertical and horizontal expansion, to serve functions and activities in original building and proposed future expansion.

B. Select types of vertical and horizontal transport designs on the basis of the kind and volume of original and projected future traffic.

C. Analyze traffic during preliminary design stage to determine the economic feasibility of originally installing vertical and horizontal transport systems having future additional capacity. If that is not feasible, provide spaces for future hoistways. Provide future hoistway space with knockout floor slabs to allow that floor space be utilized until the future expansion takes place.

D. When the designed equipment is overhead traction type, design the machine room area and the machine beams to be removable. This facilitates machine room relocation and extension of the hoistway. For future expansion from Hydraulic to Traction elevator, Basement Traction would allow the use of the same Machine Room attached to Hoistway.

E. When the original designed equipment is hydraulic and the building is designed for future vertical expansion, structure the hoistway for future overhead or basement electric traction elevator. Pit depth for a hydraulic elevator is 48", minimum pit depth for a traction elevator is 69" for 200 fpm. Verify required depth.

Renumbered: 11 and 12

#### 12. ELECTRICAL REQUIREMENTS

Change B. 2) "bottom floor and open the elevator doors."

#### 13. DRAWINGS