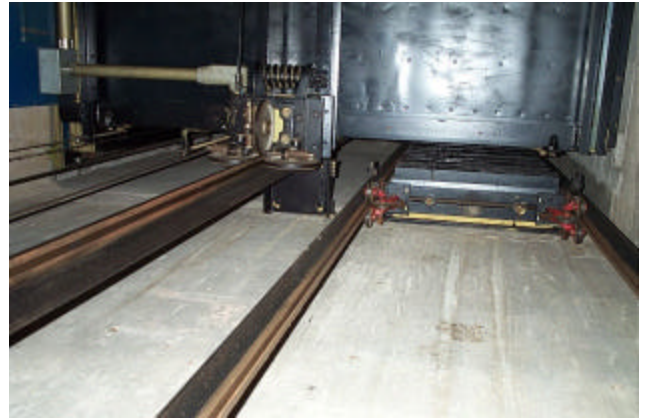
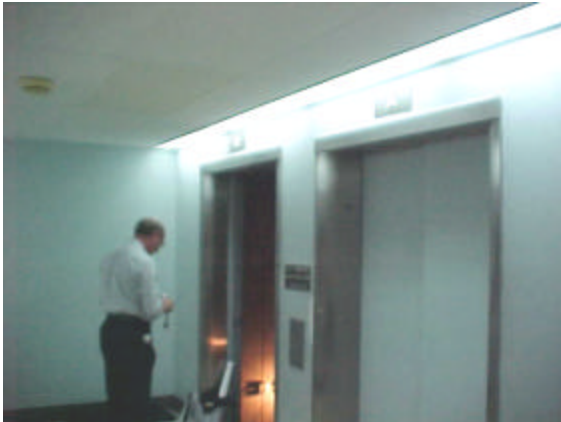




VAMC WESTERN NY UPGRADE E WING ELEVATORS



Watts Engineers performed an investigation of the existing “E” wing elevators at the VA Medical Center Western New York. The primary purpose of the investigation was to determine the feasibility of increasing the capacity of the existing 4000 lb. Passenger elevators.

Owner:

Veteran’s Administration Medical Center

Location:

City of Buffalo, Erie County

Completion Date:

2003

Construction Cost

\$100,000.00

Services:

- *Electrical Engineering*
- *HVAC Engineering*
- *Structural Engineering*

A structural design check was performed on the existing structural elements supporting the elevator and its equipment. The design check considered the structural elements ability to carry the new loading in shear, moment resistance and a deflection criteria of 1/1600. As a result of the engineering check of all affected components of the building, no structural modifications were found to be required.

Additionally, the existing D.C. traction machines, electro-mechanical elevator controls, and elevator machine room were studied. Replacement alternatives studied included static converters as well as variable frequency drives. Recommendations included upgrade of elevator machine room ventilation and lighting, replacement of elevator hoist machines with variable frequency drive AC units and controls, and other miscellaneous upgrades. The study was submitted in a comprehensive report, including photographs, field survey data, analysis, recommendations, and cost estimates.