

AVIATION EXCELLENCE

Los Angeles International Airport

The City of Los Angeles/Los Angeles World Airports - Los Angeles, Calif.

Provided vertical transportation engineering services in four phases. In Phase 1, performed an evaluation and assessment of modernization and replacement needs for all vertical transportation equipment owned and operated by Los Angeles World Airports. Approximately 237 units, including elevators, escalators, and moving walks, were categorized as Priority I, II, III, and IV units. Performed elevator and escalator inspections to confirm that the equipment condition met industry standards and complied with current code requirements. The feasibility of modernization and/or replacement of the equipment also was determined. Provided recommendations on upgrades and modernization of the vertical transportation equipment, then developed an implementation plan.

In Phase 2, designed and developed the construction documents for the Priority I units resulting in the replacement of 32 escalators, modernization of 17 hydraulic elevators, and modernization of one traction elevator.

In Phase 3, designed and developed the construction documents for the Priority II and III units, resulting in the replacement of 66 escalators and six moving walks and the modernization of eight hydraulic elevators.

In Phase 4, provided design services and construction support services associated with the replacement of 79 hydraulic elevators with machine room-less elevators. The building information modeling design was completed using Revit® Architecture.

Phoenix Sky Harbor International Airport

City of Phoenix - Phoenix, Ariz.

- PHX Sky Train® - Provided vertical transportation design, post design, and commissioning of all elevators, escalators, and moving walks for Stage 1 and Stage 1A, which included replacement and installation of escalators within Terminal 4 and adding elevators to Terminal 3. The five-mile-long PHX Sky Train® is a predominately elevated guideway system that connects two passenger terminals, a parking area, and a ground transportation center at 44th Street with a light rail transit interface. The project achieved LEED® Gold certification.



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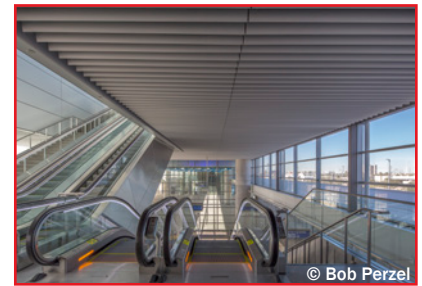
PHX Sky Train® Phoenix Sky Harbor International Airport

- Rental Car Center Escalator Assessments - Work included assessment services for the Phoenix Sky Harbor International Airport Rental Car center escalator equipment, recommendations on both short- and long-term corrective actions to address equipment reliability, and assessing the feasibility of replacement units when needed.



Phoenix Sky Harbor International Airport

- North Concourse Service Elevator Feasibility Study and Design - Performed a feasibility study to evaluate two proposed locations for a new access elevator to improve access for vendors and cleaning personnel along with providing means to move heavy equipment to the roof area where the only access is via stairwells. Performed site surveys to evaluate elevator usage, evaluated facility drawings to determine suitability of elevator location, and provided study reports and recommendations. In addition, work included design services for new elevators at the Terminal 3 North Concourse Service Elevators, including design survey, traffic analysis, utility design, and specification and drawing development.



Phoenix Sky Harbor International Airport

- Rental Car Center - Conducted an independent acceptance inspection for 12 elevators and 18 escalators, including code inspections and performance inspection tests. Inspection checklists were based upon ASME A17.2 and specific contract requirements. Developed punchlists outlining deficiencies and conducted follow-up inspection to ensure punchlist resolution. Performed a step/skirt performance index test on each escalator and on inspected units to independently assess compliance with code requirements.
- Elevator Modernization - Provided modernization oversight of an elevator at Terminal 3.
- Elevator Needs Assessment at Terminal 3 - Performed an independent audit, assessing existing conditions of 18 aging elevators in Terminal 3 to develop a modernization program. Conducted field surveys to establish technical requirements and to determine the feasibility of modernizing 14 traction and four hydraulic elevators with minimal impact on passenger services. Provided direction and recommendation for a modernization program. Submitted a detailed evaluation report of the existing conditions along with renovation options.
- Terminal 3 Escalator Replacement Two-Step Design-Build - Bridging consultant responsible for providing bridging documents, construction support, and inspection services for the replacement of four escalators. Provided inspections and field surveys for the four existing escalators coupled with a steering document to address aging equipment at the facility. A passenger load study evaluating traffic conditions on the escalators was performed to augment the needs analysis. Developed qualification criteria and technical requirements to identify design-build firms for executing the project.

Coordinated, reviewed, and monitored contractors' work product and processes during the construction phase, including reviews of complex rigging systems to address challenging project conditions.

Conducted inspections of the equipment at the factory prior to shipment to assess technical conformance and workmanship.

Baltimore/Washington International Airport

Maryland Aviation Administration - Baltimore, Md./Washington, D.C.

Vertical Transportation Inspections - Provided maintenance inspection services and analysis for elevators, escalators, and moving walks as part of a five-year contract. Work included audits to determine quality of maintenance, performance, and code compliance. Provided on-call services for final acceptance inspections on newly installed units and prepared recommendations for upgrades related to Americans with Disabilities Act requirements.

John F. Kennedy International Airport

Port Authority of New York and New Jersey - Newark, N.J., and Flushing, N.Y.

- Parking (Blue) Garage Elevator Modernization - Performed elevator study at the Blue Garage to determine feasibility for providing elevator service for two new parking levels.
- Parking (Red) Garages 8 and 9 - Provided custom elevator design services for eight weather exposed traction elevators and construction services for the installation of eight elevators.

Newark Liberty International Airport

Port Authority of New York and New Jersey - Newark, N.J.

- Elevator and Escalator Design Services - Provided elevator and escalator design services for a redevelopment program in Terminal A.
- Elevator and Escalator Upgrades Terminal B and Terminal B2 Connector - Provided Stage I, II, III, and IV design services for the vertical circulation involved in the planned upgrade and provided elevator consulting services for the upgrade of two elevators in Buildings 79 and 80.
- Elevator/Escalator Inspections - Conducted a field survey on 33 vertical transportation units. Upon conclusion of the field survey, submitted a report of our findings and provided recommendations for future action. Additionally, reviewed the existing maintenance specification and provided recommendations for the future document.
- New Elevator and Escalator - Provided design and construction support services for four new elevators and four new escalators in Terminal B.
- Escalator Controller Relocation - Provided code compliance and escalator controller relocation program for Monorail Station.
- Elevator and Escalator Maintenance Services - Developed a prescriptive maintenance agreement for providing rehabilitation, maintenance, and repair of 27 elevators, 26 escalators, and one moving walk. The agreement included expansion provisions to include an additional 15 elevators and 18 escalators.



Baltimore/Washington International Airport



John F. Kennedy International Airport



Newark Liberty International Airport

- Passenger Elevators - Developed specifications and construction drawings for a special-purpose service elevator at Continental Airlines' service support center. Reviewed shop drawings and coordinated electrical, mechanical, structural, and architectural impacts on the elevator system.

LaGuardia International Airport
Port Authority of New York and New Jersey - Newark, N.J., and Flushing, N.Y.

Elevator and Escalator Upgrades - Provided new elevator design and construction consulting services for the Aircraft Rescue and Fire-Fighting Facility.

Philadelphia International Airport
City of Philadelphia - Philadelphia, Pa.

- Design Development and Construction Phases Services - Developed and prepared design development and construction phase services for the modernization of two existing hydraulic passenger elevators.
- Maintenance and Safety Audits - Provided maintenance and safety audits of 21 escalators and 11 moving walks and consulting services for the upgrade of 20 existing elevators.

Lehigh Valley International Airport
Allentown, Pa.

Elevator Design - Provided elevator design support services for the installation of a new glass elevator during Phase II renovations of the main terminal.

Plattsburgh International Airport
Plattsburgh, N.Y.

Expansion Project - Performed design document services for two elevators and two escalators as part of an expansion at the airport.



Newark Liberty International Airport



Philadelphia International Airport



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