

PHX

SKY TRAIN[®]



MEDIA GUIDE



PHX Sky Train® Timeline

In 2009, construction began on the PHX Sky Train® between Valley Metro Rail, East Economy parking, and Terminal 4. Stage 1 opened April 8, 2013 and is 1.7 miles long.

Stage 1A soon followed which extended the PHX Sky Train® 0.7 miles from Terminal 4 to Terminal 3. It began passenger service in December 2014.

These two phases included four stations and three miles of dual-lane guideway. The project included a maintenance and storage facility for the 18 vehicle fleet.

The PHX Sky Train® final phase, Stage 2, includes the construction of two new stations and 2.5 miles of dual lane guideway.

The new stations are at the Rental Car Center and between the Rental Car Center and terminals at 24th Street. The 24th Street Station includes 1,600 additional economy parking spaces, along with additional curbside pick-up and drop off areas for passengers.

Stage 2 also adds another 24 cars to the fleet enabling a three-car configuration to be used. With each car able to hold 53 passengers, this will allow more than 150 passengers to use each three-car train.

PHX Sky Train® Timeline

-continued

On Dec. 20, 2022, Stage 2 opened to the public. The trains run continuously in both directions 24 hours a day, seven days a week and arrive as frequently as every three minutes. They travel at an average speed of 23 mph, but can go up to 38 mph.

In total, it takes about 13 minutes for the trains to travel the five miles from the 44th Street PHX Sky Train® Station to the Rental Car Center Station.

Initial projections indicated about 2.5 million passengers were expected to ride the train in its first year (7,000/day). However, ridership has exceeded expectations with on average about 14,000 riders daily.

Anticipated daily ridership will be about 35,000 daily passengers as Stage 2 opens. In the future with airport growth, we expect about 79,000 passengers to ride everyday.



PHX PHOENIX SKY HARBOR INTERNATIONAL AIRPORT





After earning gold certification in the Leadership in Energy and Environmental Design (LEED) program for Stages 1 and 1A, the airport sought a different certification for Stage 2. This project received Gold Certification through the Envision program for anticipated reductions in greenhouse gases as well as several measures designed to reduce operational energy needs by 59 percent.

Sustainable features include stormwater management that recharges groundwater through stormwater basins, and water efficient landscaping that achieved 75 percent reduction of water usage by using efficient irrigation, desert grasses, trees and shrubs with low irrigation needs.

Construction waste management of the project captured 76 percent of on-site generated construction waste and diverted that waste from landfills. Furthermore, 23 percent of the building materials were manufactured from recycled materials. In addition, 25 percent of construction materials were extracted and manufactured locally. The wood-based materials used were certified with Forest Stewardship Council (FSC) principles and criteria.

The project also selected products to ensure energy consumption reductions when selecting air handlers and chillers. This helped reduce Energy Consumption in the stations by 30 percent.

Other sustainability features include:

- Low Emitting Materials: adhesives, sealants, paints, coatings, carpet systems, composite wood, agrifiber were specified to have low emitting volatile organic compounds.
- Entryway walk off grilles help minimize pollutants in the stations.
- Wattstopper System controls station lighting to minimize usage.





Stage 2 Extension of PHX Sky Train®

Cost: \$745 million. Paid for with rental car customer facility charges; airline passenger facility charges. (No local tax dollars)

Scope of Work: 2.5 miles of dual-lane guideway, 2 passenger stations, 24 additional train cars

Train System Provider/Operator: Alstom (formerly known as Bombardier Transportation Holdings USA)

Stage 2 Construction Manager: Hensel Phelps Construction Co.

Facilities Designer: Gannett Fleming

Train System Consultant: Lea+Elliott, Inc.

Civil Engineer/Design Subcontractor for Gannett Fleming: Kimley-Horn & Trace Consulting split civil scope with Gannett Fleming

General Contractor for Alstom: The Weitz Co.

Electrical Subcontractor for Weitz: Wilson Electric

Civil Designer for Bombardier: Kimley-Horn

Architect/Subcontractor for Gannett Fleming: SmithGroup

Architect/Subcontractor for Alstom/Weitz on Mfg. Service Facility Building Design: Deutsch Architecture Group

Subcontractor for Hensel Phelps & Weitz: Suntec Concrete

The PHX Sky Train® features large-scale works of public art created to enhance the traveling experience for airport visitors and to act as wayfinding aids giving identity and personality to each area. The architecturally-integrated works include intricate terrazzo floors at each station platform, stained-glass mural walls on pedestrian bridges and a sculptural ceiling installation. The Stage 2 extension adds two new artist-designed terrazzo floors and a colorful platform wind wall. The PHX Sky Train® route now has eleven major artworks designed by nine artists and/or artist teams.

Sonoran Essence

Studio painter Frank Gonzales meticulously rendered botanical elements of the desert within the terrazzo floor titled *Sonoran Essence* at the 24th Street PHX Sky Train® Station.

The artist worked closely with the PHX Sky Train® design and construction team, McCarthy Building Companies, Smith Group Architects and Corgan Interior Design, as well as with the fabricators, Marzee Waterjet Cutting and Advance Terrazzo, to create his design.

The artist illustrated Arizona native plants using 17 different terrazzo colors as if he were creating a painting. He enlarged imagery of desert cactus, seed pods and blossoms to a monumental size of 10 to 20 feet.

Spanning more than 8,000 square feet, the floor's design magnifies what are typically small elements of the native Sonoran Desert, encouraging the viewer to immerse themselves in the details of desert flora as they walk.





Sky Curtain

Artist couple Roberto Behar and Rosario Marquardt of Miami-based R & R Studios designed this colorful art wall installation titled Sky Curtain at the Rental Car Center PHX Sky Train® Station. The artists worked closely with the PHX Sky Train® design and construction team, McCarthy Building Companies, Smith Group Architects, and Corgan Interior Design, as well as with the fabricators, Magnum Companies, in the installation on the sculpture.

Sky Curtain consists of a sculptural wall on each side of the open-air station platform at the Rental Car Center. The two walls are each 230 feet long by nine feet tall and are designed to function as weather screens by keeping rain, wind and dust from entering the platform. The architecturally integrated artwork is constructed of rows of steel pipes supported by a stainless-steel framework. The layers of colorful pipes are staggered so that the wall appears to change colors as you walk or ride along it. The PHX Sky Train® passengers will be treated to a vibrant display as they arrive or depart the platform. Led lighting further enhances the artwork at night.

The artist team was inspired by Phoenix's spectacular sunrises and sunsets for Sky Curtain's colorful design. Visitors to Phoenix will have a memorable immersive experience as the station is the primary entry and exit point for travelers renting cars at the airport.



From the Earth to the Sky

Studio painter Bill Dambrova makes the connection from ancient sea creatures to cosmic constellations in the terrazzo floor titled *From the Earth to the Sky* at the Rental Car Center PHX Sky Train® station. The artist worked closely with the PHX Sky Train® design and construction team, McCarthy Building Companies, Smith Group Architects, Corgan Interior Design, Marzee Waterjet Cutting and Advance Terrazzo to create the 5,258 square foot work of art.

While creating the initial design, the artist imagined his hometown of Phoenix millions of years ago as a shallow sea teeming with star-shaped organisms. Dambrova found inspiration for the floor design in the organic, star-like forms and patterns we continue to see in the ocean, on earth and in the night sky.

Visitors to the PHX Sky Train® Station can interact with the design by walking over one of the many vibrant medallion shapes that radiate with color. With 32 different colorants, *From the Earth to the Sky* is the most colorful terrazzo floor at the airport yet. The terrazzo aggregate mixture also contains mirrored glass, referencing stars in a galaxy, and abalone shell to pay homage to the sea creatures who lived here long ago.