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LAX CAPITAL IMPROVEMENTS PROGRAM E-NEWSLETTER

Summer 2015



New Energy-Efficient Lighting Scheme Unveiled in CTA

Los Angeles Mayor Eric Garcetti and Board of Airport Commissioners President Sean Burton were joined July 20 by officials from the airport and the Special Olympics World Games to unveil a new energy-efficient lighting scheme and lightband throughout the Central Terminal Area (CTA) of Los Angeles International Airport (LAX).

The new lighting scheme marks completion of Phase II of the \$118-million LAX CTA Curbside Appeal and Roadway Improvement Project, which also includes wayfinding and

roadway improvements to make the airport more visible, safer, and easier to navigate for pedestrians and motorists.

After a countdown and a “swipe,” Mayor Garcetti debuted a specially created light show featuring 91 white sculptural light poles and a mile-long lightband programmed with the multi-colors of the Special Olympics World Games, held from July 25 to August 2, to welcome athletes to Los Angeles.

Phase II of the LAX Central Terminal Area Curbside Appeal and Roadway Improvement Project began Spring 2014. In addition to the modern, custom-made LED (light-emitting diode) light poles and lightband, other project components include: wayfinding signage; a new canopy in front of Terminal 4; traffic and roadway improvements; and a retrofit of the Upper Level, World Way South, and Center Way roadways.

The Curbside Appeal Project was designed to bring together the current separate-looking key architectural elements of the airport’s iconic 1960s Theme Building, the 2000 LAX Gateway light pylons, and the nine airline terminals. Aesthetically, the Curbside Appeal Project will dramatically revitalize the look of LAX with new vibrancy, color and energy – offering a world-class welcome to travelers and visitors alike.



Susan Goldman

NEW LIGHTS – New sculptural light poles and mile-long lightband in the Central Terminal Area are lit to welcome Special Olympics athletes to Los Angeles.

The 91 new sculptural light poles reach out expressively in a much tighter spacing than the 78 original street lights,

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creating a strong visual perspective that ties together the Central Terminal Area.

Each new pole uses 413 watts, or half the power consumption of the previous 33-year-old, high-pressure sodium (HPS) lights – resulting in brighter and more energy-efficient street lighting. Each of the new LED light poles include eight “up” lights to further enhance visibility. Three-dimensional, LED back-lit, super-graphic terminal identifiers also help motorists find their terminals. The dramatically improved lighting increases safety and functionality for pedestrians and motorists.

Phase I of the project, completed in 2013 when the New Tom Bradley International Terminal (TBIT) began operations, included a new façade, curbside seating,

canopy, light poles, and lightband in front of the terminal. The canopy in front of TBIT is currently being extended to Terminal 4 and construction is scheduled to be completed in early 2016. The long-range plan is to have canopies at all terminals.

The Central Terminal Area is now defined with a programmable polychromatic LED lightband, or ribbon, synchronized with the light pylons. The lightband continues the theme of the vertical gateway light pylons in a horizontal application, like a ribbon tying together the entire CTA. Over one mile of the continuous ribbon is attached to the edge of the Upper/Departures Level roadway. This lightband is made up of 690 eight-foot-long individual light boxes interconnected and controlled by a single theater control system.

United Investing \$573M to Refresh Customer Space

United Airlines executives recently previewed its \$573-million major-hub investment that promises to deliver a superior experience for the airline's customers at LAX. United's LAX redevelopment project will refresh virtually all of its customer-facing space at the airport, offering more of the conveniences and premium amenities that travelers value.

United executives outlined the company's plans during a ceremony that was also attended by Los Angeles Board of Airport Commissioners President Sean Burton, then Los Angeles World Airports Executive Director Gina Marie Lindsey, and employees from each of the airline's work groups.

The airline also unveiled several design renderings depicting some of the flyer-friendly changes that will greet customers between now and December 2017, when United expects to complete its renovations.

United's new-look terminals and gate areas will feature a modern design with relaxed and inviting spaces, including a variety of comfortable seating options and abundant charging stations for customers' electronic devices. United Club members will also enjoy the airline's new, expanded Terminal 7 lounge where they can take in spectacular views of the airfield from the club's outdoor terrace. Located atop the terminal, the exclusive terrace will offer club members additional respite from the hustle and bustle of their travel day.

“Today's investment by United is the latest in our more than \$7 billion overhaul of LAX,” said Mayor Garcetti. “Whether by upgrading nearly every terminal or bringing in ridesharing services to pick you up, we're making LAX a world-class airport befitting of our global city.”

“The partnership we have with United will create the world-class experience we want for all LAX passengers,” said Commissioner Burton. “As our passenger base continues to grow, we are working hard to improve the guest experience, making their journey through LAX more efficient and comfortable today and in the future.”

Upon arriving at LAX, United customers will step into an expansive ticketing lobby that incorporates the latest self-service tools such as self-tagging baggage kiosks. These intuitive technologies, along with an improved security screening checkpoint, will enable travelers to move quickly and efficiently from curb to gate.



NEW INVESTMENT – A rendering of the new exterior at LAX from the airfield. United is investing \$573 million to refresh nearly all of its customer-facing space at LAX.

Three-Year Delta Air Lines Renovation Completed

The experience at LAX's Terminal 5 has improved with Delta Air Lines' unveiling completion of a three-year terminal-wide renovation on June 10, including the airline's first private check-in lounge, Delta ONE. The \$229-million Delta project was completed in partnership with Los Angeles World Airports (LAWA) and the City of Los Angeles.

Delta ONE at LAX provides an innovative premium check-in experience. Customers enter the terminal through a dedicated curbside entrance, leading to a private, modern check-in lounge with personalized luggage check, high-design atmosphere, and a refreshment bar. Customers also access a dedicated security checkpoint directly from the Delta ONE lounge.

Additionally, a renovated Sky Club offers more space and an improved customer experience, including 100 additional seats; new shower suites and renovated bathrooms; an updated food area with café seating; and new furnishings and fixtures.

New restaurants and shops in Terminal 5, completed by LAWA, feature celebrity chefs and retail brand names that reflect the cuisine, culture and lifestyle of Los Angeles.

Other Terminal 5 enhancements include new jet bridges; a renovated Sky Priority lobby; an expanded ticketing lobby, four additional security screening checkpoints; new baggage carousels; and international baggage recheck facilities.



WARM WELCOME – The remodeled Federal Inspection Facility provides a warmer welcome and more efficient customs process for arriving international passengers thanks to new technology and expanded capacity.



Jay Berkowitz

A CELEBRATION – Taking part in the ribbon-cutting ceremony are, from left: Delta Air Lines Vice President-Sales West Ranjan Goswami; Los Angeles City Councilmember Mike Bonin; Los Angeles Mayor Eric Garcetti; then Los Angeles World Airports Executive Director Gina Marie Lindsey; Delta Air Lines President Ed Bastian; and former Los Angeles City Councilmember Tom LaBonge.

LAX to Expand Use of Recycled Water



Marshall Lowe

RECYCLED WATER – Pictured is a project in front of the Construction and Maintenance Building at 7411 World Way West that was converted from landscaping to drought-resistant plants

An agreement with the Los Angeles Department of Water and Power (LADWP) calls for design and construction of a pipeline carrying recycled water for landscape irrigation to the east side of LAX at a cost of \$690,000.

Under this agreement, Los Angeles World Airports (LAWA) and LADWP will partner to install approximately 2,800 feet of recycled water pipeline along Imperial Highway west of Sepulveda Boulevard, to convert irrigation of 3.5 acres of landscaping from potable water to recycled water. The agreement calls for LADWP to provide the design plan and reimburse the airport for construction costs.

Los Angeles Mayor Eric Garcetti has established goals to reduce the per capita potable water use in the city by 20 percent by 2017.

In addition to further restricting irrigation with potable

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water use, LAWA has developed plans to install drought-tolerant landscape, replace with turf, and reduce indoor water use at its three airports: LAX, LA/Ontario International (ONT), and Van Nuys (VNY). Airport personnel are also participating in LADWP's education and outreach campaign.

The two city departments have cooperatively worked together since 1997 to convert landscape irrigations

systems from potable water to recycled water on the north side of the LAX campus, including the Westchester Golf Course; both sides of Westchester Parkway; around the 88th Street sound wall in Westchester; and employee parking lots adjacent to Will Rogers Street and Yorktown Avenue, also in Westchester.

To date, 63 percent of all LAX landscaped areas, or approximately 51 acres, are irrigated with recycled water.

Stormwater Treatment Project Agreement Finalized

An agreement has been reached finalizing an estimated \$40 million stormwater treatment project that will clean polluted LAX runoff before it is released into Santa Monica Bay. An average of 100 million gallons of water a year will also be recharged into the city's groundwater basin through this project, adding to L.A.'s effort to address the historic drought.

Mayor Eric Garcetti said that the people of Los Angeles were partners in this project, noting that \$30 million of the estimated \$40 million project is being provided through Proposition O, which was passed in 2004. He made the project a priority and the agreement represents the culmination of months of cooperation between Los Angeles World Airports and the Bureau of Sanitation and was a major step in the city's efforts to effectively improve stormwater runoff.

The stormwater capture facility will be built underground, requiring the excavation of a five-acre empty parcel that the city will then convert into park space.

The agreement comprises two components:

- The Argo Drain Sub-Basin Facility will accommodate a watershed area of approximately 2,400 acres, including the Argo Drainage Channel flows that are located on LAWA property, and will transport the flows by gravity to a detention/retention basin. The flows will then be pumped into underground infiltration galleries to recharge the groundwater basin. Most of the elements would be underground with access hatches and ventilation outlets on the surface.
- The Imperial Drainage Basin Project will create a new, high-flow diversion structure on airport land that connects stormwater runoff generated within the Imperial/Pershing sub-basin to a sewer that would connect to the Hyperion Water Reclamation Plant.

LAX runoff is currently sent untreated into the ocean via what is essentially an open ditch. The project will collect the airport's stormwater and either send it through a newly

constructed connection with the city's Hyperion Water Reclamation Plant, which is near the southwest corner of LAX, or pump it into underground infiltration galleries to recharge the groundwater basin

"This project is critical for reducing stormwater pollution of Santa Monica Bay. This is a great example of how Proposition O has improved water quality in the city's rivers, lakes and coastal waters," said Mark Gold, acting director of the UCLA Institute of the Environment and Sustainability.

"This is a great example of agencies coming together to support projects that benefit our watersheds holistically. It's a smart investment that will provide public health dividends in the future," said Sarah Sikich, Heal the Bay's vice president.

"We hope it will serve as a reminder for the need to find creative ways to fund projects and programs that benefit water quality, local water reliability, and our watersheds." She said.



Jay Berkowitz

MULTI-USE PARCEL – Site of the five-acre parcel at the northwest end of the airport where the underground stormwater treatment facility will be constructed. Upon completion of construction, the above-ground parcel will be converted into park space.

Upgraded Wi-Fi Service Planned for Airport Guests

Boingo Wireless, Inc., of Los Angeles was recently awarded a contract to upgrade, manage, operate and market the Wi-Fi network at LAX. Airport guests will continue to receive 45 minutes of free advertising-supported Wi-Fi service, but at speeds more than four times faster than today, placing LAX among the top airports in the U.S.

“The new Wi-Fi agreement and planned upgrades are designed to keep LAX on the cutting edge of wireless technologies, and to ensure LAX is offering guests access to one of the fastest airport wireless networks in the nation. Today, LAX provides free Wi-Fi access to more than one million travelers each month and the new program will ensure all guests have unlimited free access to the state-of-the-art network.

Under the new agreement, Boingo Wireless will make significant investments to upgrade existing networks to enable tiered Wi-Fi at speeds from five Mbps (megabits per second) up to 20 Mbps. Boingo’s network design will enhance the guest experience while supporting the latest wireless standards.

In addition to 45 minutes of free Wi-Fi provided at a minimum speed of five Mbps, travelers can also choose to access Boingo’s unlimited, premium tiers of for-pay service at 10 Mbps and 20 Mbps.

Over 30 percent of LAX’s 35.3 million enplaning passengers access the current free Wi-Fi service while waiting for their



Traveler uses Wi-Fi service.

flights. Additional users include meeters-and-greeters waiting for arriving passengers and other airport visitors.

Passengers will be able to access the free Wi-Fi network at the new five Mbps speed to retrieve e-mail and browse the Internet more quickly.

Two levels of unlimited service at 10 Mbps and 20 Mbps, which will allow faster downloads of video and content streaming, will be available to users for a fee. Boingo subscription account holders will receive automatic access to the premium service without having to view any advertisements.

Outboard Runway 24R/6L Temporarily Closed

LAX outboard Runway 24R/6L on the north runway complex closed June 29 for 113 days, until October 19. Runway Safety Area improvements, mandated by Congress for all U.S airports, will be performed.

The improvements will provide an extra margin of safety for landing and departing aircraft. To limit the impact on operations, LAX is phasing the construction, one runway at a time. These construction periods also provide an opportunity for LAX to also complete regular runway maintenance, minimizing the impact to operations while making its already safe runways even safer.

The first phased closures began March 2015 with Runway 25L/7R on the south side of LAX, and was completed in April 2015. Minor improvements were needed to bring Runway 25L/7R into compliance.

The runway improvements are expected to span a three-year period and may cause flight delays similar to those experienced during inclement weather at LAX.

People living near LAX may also notice a change in aircraft flight activity and noise as aircraft that normally land on the north outboard Runway 24R/6L will instead land on the north inboard Runway 24L/6R.

Some aircraft operations may also shift from the north to the south complex. LAX will continue to conduct normal Over-Ocean Operations (midnight to 6:30 a.m.) during this closure when weather and operational conditions permit.

For more information on the phased closures, and to view the latest video on Runway Construction at LAX, go to <http://www.laxishappening.com/runways/>

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