
***DRAFT ENVIRONMENTAL ASSESSMENT AND
DRAFT GENERAL CONFORMITY
DETERMINATION***

VOLUME 3: APPENDICES H-O

LOS ANGELES INTERNATIONAL AIRPORT (LAX)
LANDSIDE ACCESS MODERNIZATION PROGRAM

Los Angeles International Airport
Los Angeles, Los Angeles County, California

Prepared for:

LOS ANGELES WORLD AIRPORTS

**U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION**

As lead Federal Agency pursuant to the National Environmental Policy Act of 1969

Prepared by:

Ricondo and Associates, Inc.

August 201

Appendix H

Historic Resources Report



- H.1 Historic Resources Report
- H.2 SHPO Coordination Letters
- H.3 Proposed SHPO Memorandum of Agreement
- H.4 ACHP Coordination Letters

Appendix H.1
Historic Resources Report





LAX Landside Access Modernization
Program
Section 106 Assessment
February 2017

HISTORIC RESOURCES GROUP

3	1.0 Introduction
3	1.1 Methodology
4	1.2 Project Team
4	1.3 Summary of Findings
6	2.0 Proposed Undertaking
10	3.0 Area of Potential Effect (APE)
13	4.0 Regulatory Review
13	4.1 Section 106 of the National Historic Preservation Act of 1966
13	4.2 Historic Designations
16	4.3 Historic Significance and Integrity
18	4.4 Age Threshold
19	5.0 Historic Context
19	5.1 Airport Development 1928-1951
20	5.2 “Jet Age” Development at LAX
22	5.3 Airport Expansion 1981 – Present Day
23	5.4 Adjacent Development
25	6.0 Identification of Historic Resources within the APE
25	6.1 APE Investigation: CTA Sub-Area
31	6.2 APE Investigation: East of the CTA Sub-Area
35	6.3 APE Investigation: Imperial-Aviation, La Cienega Boulevard, and 405 Access Ramp Sub-Areas
35	6.4 Identification of Historic Resources Summary

LAX Landside Access Modernization
Program
Section 106 Assessment
February 2017

39	7.0 Analysis of Potential Effects
39	7.1 Criteria for Adverse Effects on Historic Resources
40	7.2 Potential Adverse Effects to Historic Resources Located within the CTA Sub-Area
46	7.3 Potential Adverse Effects to Historic Resources Located Within the East of the CTA Sub-Area
48	7.4 Potential Adverse Effects related to Proposed Roadway Improvements and New Roadways
48	7.5 Summary of Findings
55	8.0 Recommended Mitigation Measures
57	Bibliography
61	Appendix A: Historic Photographs
67	Appendix B: APE Properties Eligible for the National Register
69	Appendix C: APE Properties Eligible for the California Register and/or Local Listing Only

This Evaluation Report has been prepared by Historic Resources Group (HRG) on behalf of Los Angeles World Airports (LAWA) to identify historic resources located within the proposed Area of Potential Effect (APE) identified for the proposed Los Angeles International Airport (LAX) Landside Access Modernization Program (LAMP) and identify potential impacts to historic resources caused by LAMP.

This report is intended to inform federal environmental review of LAMP in compliance with Section 106 of the National Historic Preservation Act (NHPA) and its implementing regulations at 36 CFR Part 800 “Protection of Historic Properties,” and is consistent with the findings reported in the historic resources technical report contained in the LAX Landside Access Modernization Program Draft Environmental Impact Report.¹

1.1 Methodology

Evaluation of historic significance is based on a review of existing historic designations, research of the relevant historic contexts and an analysis of the eligibility criteria and integrity thresholds for listing in the National Register of Historic Places. Eligibility criteria for listing in the California Register of Historical Resources, and as a City of Los Angeles Historic-Cultural Monument were also considered. Potential historic resources were considered as individual resources and as potential contributors to a historic district where relevant.

Research

This report was prepared using primary and secondary sources related to the development history of LAX and its immediate surrounding area. The following documents were consulted:

- Historic building permits
- Historic photographs, aerial photos and site plans
- Published local histories
- Previous historic resources analysis and environmental review documents.
- California State Historic Resources Inventory (HRI) for Los Angeles County

¹ Los Angeles World Airports, *LAX Landside Access Modernization Program, Draft Environmental Impact Report*, Appendix H, Historic Resources Technical Report, August 2016.

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

- Department of Parks and Recreation Historic Resources Inventory Forms
- Applicable results from SurveyLA, the City of Los Angeles' comprehensive historic resources survey now ongoing.

Physical Evaluation

Assessment of properties for their potential historic significance, historic integrity, and identification of character-defining features were conducted through on-site inspection and survey of the APE in 2015 and 2016.

Both reconnaissance-level and intensive-level methodology was used for investigation of historic resources for LAMP. During investigation, properties known to have been constructed within the last 40 years, temporary groupings of pre-fabricated buildings, vacant lots, surface parking lots, and parking structures were quickly eliminated from in-depth investigation through reconnaissance and not subject to intensive-level analysis. The remaining properties were treated at the intensive level in terms of historic context, property research, field study, analysis and evaluation.

1.2 Project Team

Research, evaluation, field inspection, and analysis were performed by Paul Travis, AICP, Principal and Senior Preservation Planner; John LoCascio, AIA, Senior Preservation Architect; and Peyton Hall, FAIA, Managing Principal. Additional research and site documentation were conducted by Robby Aranguren, Planning Associate, and Molly Iker, Historian. All are qualified professionals who meet the Secretary of the Interior's Professional Qualification Standards.

1.3 Summary of Findings

Investigation of the LAMP APE identified five (5) buildings and one (1) structure that are eligible for listing in the National Register. Three (3) additional buildings and one (1) structure were identified as not eligible for the National Register but eligible for the California Register and/or for local listing as a Los Angeles Historic Cultural Monument.

This investigation finds that LAMP would result in an adverse effect to the LAX Theme Building, which was determined eligible for listing in the National Register by consensus through a Section 106 evaluation, has been listed in the California Register and has been designated a City of Los Angeles Historic Cultural Monument. New construction associated with LAMP would alter the setting of the LAX Theme Building in manner that would diminish its ability to convey its historic significance.

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

Notwithstanding the adverse effect due to alterations of the Theme Building setting, the Theme Building would not be physically altered by construction associated with LAMP. The Theme Building would remain physically intact in its original location and its unique architectural design would remain discernible and continue to convey its historical significance despite being partially obscured by the proposed new construction. For these reasons, the Theme Building would remain eligible for listing in the National Register after implementation of LAMP.

LAMP will not result in any additional adverse effects to historic resources located within the APE.

Mitigation measures to minimize adverse effects to the LAX Theme Building are provided in Section 8 of this report.

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

Los Angeles World Airports (LAWA) is currently undertaking a modernization program at LAX to improve passenger level-of-service and provide world-class facilities for its customers. Currently, access to the airport is restricted to a single entrance at the intersection of Sepulveda Boulevard and West Century Boulevard, which all passengers, employees, and commercial drivers transporting those passengers must utilize in order to access the passenger terminals. During peak travel periods over 6,000 vehicles per hour enter the airport, which causes traffic congestion within the Central Terminal Area that frequently spills out onto the surrounding street network, causing delays and gridlock affecting local arterials including Interstate 105.

Compounding the local traffic congestion, over 20 rental car agencies operate independent shuttles to transport passengers between the CTA and their car rental facilities that are located throughout the surrounding area. Approximately 17 percent of airport traffic is caused by car rental shuttles, which add up to over 1 million trips a year. Unlike most major U.S. airports, LAX does not have a consolidated rental car facility that provides a convenient and centralized location for airport passengers to rent and return cars. LAX also lacks a direct connection to the Los Angeles County Metropolitan Transit Agency (Metro) commuter train system. Currently passengers and employees desiring to take public transportation to LAX must either take buses the entire way, or take a Metro commuter train line to Imperial and Aviation and then transfer to buses to get to the airport.

As part of the overall modernization of LAX, LAWA proposes to implement the LAX Landside Access Modernization Program to continue to modernize and transform LAX into a world-class airport. The LAX Landside Access Modernization Program (Project) seeks to improve access options and the travel experience for passengers; relieve congestion of on-Airport and surrounding roadways, shift where different modes of traffic operate within the CTA and on the surrounding street network; and provide a non-road connection to the regional Metro rail and transit system. By implementing this project, LAWA seeks to reduce traffic congestion and improve air quality around the airport.

The federal undertaking includes approval of the Airport Layout Plan depicting the proposed Project which includes several individual components that collectively would improve access to and from LAX. These components include an Automated People

² Description of existing conditions and the proposed project as provided by the Applicant.

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

Mover (APM) system, Intermodal Transportation Facilities (ITFs), a Consolidated Rental Car Facility (CONRAC), pedestrian walkway connections to the passenger terminals within the CTA, and roadway improvements. Metro is independently working on a connection to the LAX/Crenshaw commuter rail line at their proposed Airport Metro Connector (AMC) Station to be located at Aviation Boulevard and W. 96th Street. LAWA proposes to provide a direct connection from the APM to Metro's station at W. 96th Street, allowing passengers to seamlessly transition between the airport APM and the Metro transit system. The federal undertaking also includes potential federal funding and use of Passenger Facility Charges.

Public access into the CTA under the proposed undertaking would continue to function the way it does today with the addition of the APM option. The purpose of the APM system is to reduce the number of commercial and private vehicles within the CTA, which would result in improved traffic flows on CTA and surrounding roadways, as well as fewer vehicle miles traveled and vehicle hours traveled. The APM system would provide passengers several different options to access LAX and would give LAWA the ability to implement pricing strategies, policies, and procedures that would result in a reduced number of vehicles in the CTA. The proposed APM would consist of a fixed guideway transportation system that would provide free access to the CTA for passengers, employees, and other users of LAX, 24 hours a day. Constructed completely above grade, the APM would connect to the passenger terminals in the CTA through a pedestrian walkway system located above the existing roads and curb areas in the CTA.

The APM would transport passengers between the passenger terminals and the other main components of the Project located east of the CTA, including a CONRAC facility, new public parking facilities, and locations for passenger pick-up and drop-off at the ITF East and the ITF West, as well as Metro's proposed AMC 96th Street Transit Station. The ITFs would provide access to the terminals for those that choose to drive their vehicle to LAX and park, including both long- and short-term parking. In addition, the ITFs would have designated space for commercial transportation providers, including, but not limited to, off-airport parking operators, long-distance shuttle operators, and hotel shuttles. The ITFs would enable passengers to access commercial transportation providers while eliminating the need for the providers to enter and circle through the CTA. The ITFs may include amenities and concessions for passengers, would offer long- and short-term parking options with close proximity to the APM system, provide new meet and greet locations for arriving passengers, and kiss and ride areas for departing passengers. In addition, various roadway improvements would accommodate the APM system, the CONRAC, and ITFs, and

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

improve overall traffic circulation and vehicle access to and from LAX from all directions.

8

The proposed Project includes the following components:

- An APM system with six APM stations connecting the CTA via an above-grade fixed guideway to new proposed ground transportation facilities;
- Passenger walkway systems connecting the APM stations to passenger terminals, parking garages, and ground transportation facilities;
- Modifications to existing passenger terminals and parking garages to support the APM walkway system connections, including vertical circulation cores to the arrival, departure, and concourse levels at the terminals;
- An APM maintenance and storage facility (MSF); and
- APM power substations.
- A CONRAC designed to meet the needs of car rental agencies serving LAX with access to the CTA via the APM;
- Two ITFs providing parking and pick-up and drop-off areas outside the CTA for private vehicles and commercial shuttles;
- Roadway improvements and project design features designed to improve access to the proposed facilities and the CTA and reduce traffic congestion in neighboring communities;
- Security features, including security fencing, surveillance cameras, security lighting, and emergency phones/call boxes, to reduce demands on the Los Angeles World Airports Police Department (LAWAPD);
- Fire safety features in compliance with fire and building code requirements including fire hydrants, fire sprinklers, and fire extinguishers;
- Utilities infrastructure, both new and modified, as needed, to support the proposed undertaking;
- Land acquisition of approximately 26 acres to allow construction of the proposed undertaking; and

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

- Enabling projects to allow construction of the Proposed Action, including utility relocation and demolition of certain existing facilities, some of which would be reconstructed. Enabling projects include:
 - Demolition and reconstruction of three parking garages within the CTA;
 - Demolition and/or relocation of:
 - Clifton Moore Administration Building
 - Bob Hope Hollywood USO
 - Restaurant Building (Burger King)
 - LAX City Bus Center
 - Delta Hangar Complex
 - Reliant Medical Center
 - Drug Enforcement Administration Building/Trailer
 - Airport Operations Trailers
 - Airport Century Inn (Travelodge)
 - Closure and demolition of existing roadways
 - Jenny Avenue
 - W. 96th Street between Vicksburg Avenue and Airport Boulevard
 - Belford Area secondary roadways
 - Manchester Square secondary roadways
 - Sky Way/W. 96th Street bridge
 - Roadway improvements to Center Way and West Way within the CTA

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

The Area of Potential Effect (APE) is defined as the geographic area within which an undertaking may directly or indirectly cause alterations in the character or use of historic properties (36 Code of Federal Regulations [CFR] Part 800, Protection of Historic Properties, Section [§]800.16(d)). These changes may include physical destruction, damage, or alteration of a property; change in the character of the property's use or of physical features within its setting that contributes to its historic significance; and introduction of visual, atmospheric, or audible elements that diminish the integrity of the property's significant historic features (36 CFR § 800.5(a)(2)). The locations of various known historic properties within the project vicinity were carefully considered. Specifically, the APE includes areas of potential physical disturbance for the proposed improvements, related construction impact areas, and areas with existing views of historic resources that may be impacted by the proposed project.

Because the proposed project and construction staging areas would occur at specific locations across the LAX property, a noncontiguous APE was delineated. The APE includes all the various areas for demolition, new construction, and circulation improvements described in Section 2.0, and construction staging areas. No effect to structures or any potential historic resources would occur outside of the APE, as delineated on Figure 1, as a result of the proposed undertaking. The APE was delineated to focus the Section 106 evaluation on areas that could be potentially affected by the proposed undertaking. Specifically, the APE was defined to evaluate whether the proposed undertaking would introduce an atmospheric, audible, or visual feature to the area that would diminish the integrity of the property's significant historic features (including its setting, provided the setting has been identified as a contributing factor to the property's historical significance).

The APE occupies approximately 1,000 acres and is split into three general regions: Central Terminal Area, East of the Central Terminal Area, and Aviation Boulevard/Imperial Highway Area. The Central Terminal Area (CTA) includes areas west of Sepulveda Boulevard, focused around World Way and the passenger terminals at LAX. East of the Central Terminal Area is generally bounded by W. Century Boulevard on the south, Interstate 405 (I-405) on the east, W. Arbor Vitae Street/LAX property boundary on the north, and Sepulveda Boulevard on the west. The Aviation Boulevard/Imperial Highway Area is bounded by Imperial Highway on the south, W. 111th Street on the north, Aviation Boulevard on the west, and Hindry Avenue on the east, but also includes roadway improvements along the I-405 and La Cienega Boulevard. The APE comprises various airport, regional commercial, general commercial, and medium-density residential land uses. The APE is primarily

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

developed and heavily urbanized, with some vacant areas associated with the Belford and Manchester Square Areas.

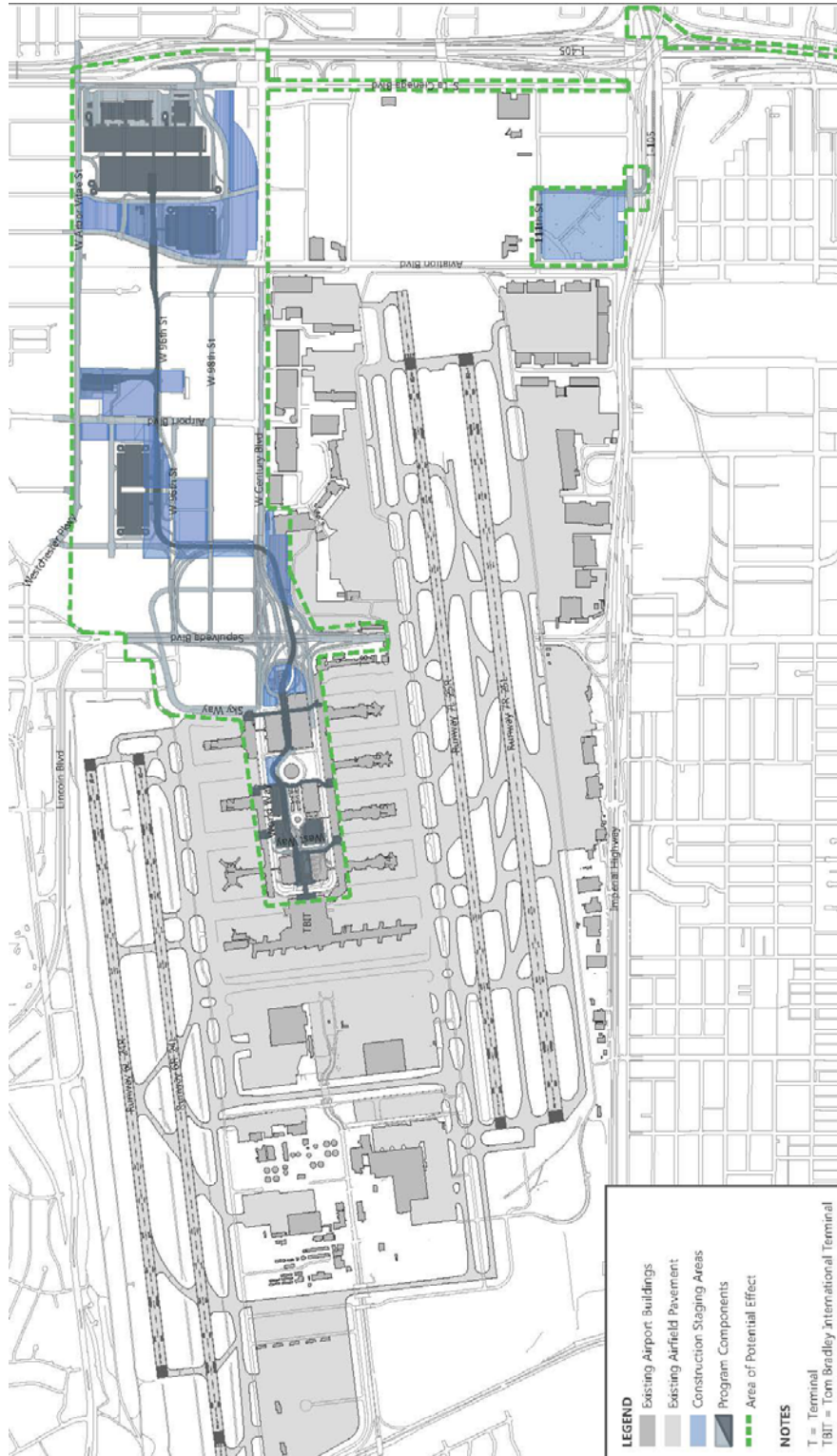
11

A map of the APE is included in Figure 1.

LAX Landside Access Modernization Program
Section 106 Assessment
February 2017

HISTORIC RESOURCES GROUP

Figure 1: Area of Potential Effect



LAX Landside Access Modernization Program
Section 106 Assessment
 February 2017

HISTORIC RESOURCES GROUP

4.1 Section 106 of the National Historic Preservation Act of 1966

Enacted in 1966, the National Historic Preservation Act (NHPA) established a national policy for historic preservation and instituted a multifaceted program to encourage the achievement of preservation goals at the federal, state, and local levels.

Section 106 of the NHPA “requires Federal agencies to take into account the effects of their undertakings on historic properties and afford the Council a reasonable opportunity to comment on such undertakings.” Undertakings include a “project, activity, or program funded in whole or in part under the direct or indirect jurisdiction of a Federal agency, including those carried out by or on behalf of a Federal agency; those carried out with Federal financial assistance; and those requiring a Federal permit, license or approval.” Section 106 requires federal agencies to take into account the effect of the undertaking on any historic property that is included in, or eligible for inclusion in, the National Register of Historic Places.³

The Section 106 process seeks to accommodate historic preservation concerns with the needs of Federal undertakings through consultation among the agency official and other parties with an interest in the effects of the undertaking on historic properties, commencing at the early stages of project planning. The goal of consultation is to identify historic properties potentially affected by the undertaking, assess its effects and seek ways to avoid, minimize or mitigate any adverse effects on historic properties.

4.2 Historic Designations

A property may be designated as historic by Federal, State, and local authorities. In order for a building to qualify for listing in the National Register or the California Register, it must meet one or more identified criteria of significance. The property must also retain sufficient architectural integrity to continue to evoke the sense of place and time with which it is historically associated.

National Register of Historic Places

The National Register of Historic Places is an authoritative guide to be used by Federal, State, and local governments, private groups and citizens to identify the Nation's cultural resources and to indicate what properties should be considered for protection from destruction or impairment.⁴ The National Park Service administers the

³ 36 Code of Federal Regulations, 800.16[y]

⁴ 36 Code of Federal Regulations 60.2.

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

National Register program. Listing in the National Register assists in preservation of historic properties in several ways including: recognition that a property is of significance to the nation, the state, or the community; consideration in the planning for Federal or federally assisted projects; eligibility for Federal tax benefits; and qualification for Federal assistance for historic preservation, when funds are available.

The criteria for listing in the National Register follow established guidelines for determining the significance of properties. The quality of significance in American history, architecture, archeology, engineering, and culture is present in districts, sites, buildings, structures, and objects:

- A. That are associated with events that have made a significant contribution to the broad patterns of our history; or
- B. That are associated with the lives of persons significant in our past; or
- C. That embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
- D. That have yielded, or may be likely to yield, information important in prehistory or history.⁵

In addition to meeting any or all of the criteria listed above, properties nominated must also possess integrity of *location, design, setting, materials, workmanship, feeling, and association*.

California Register of Historical Resources

The California Register is an authoritative guide in California used by State and local agencies, private groups, and citizens to identify the State's historic resources and to indicate what properties are to be protected, to the extent prudent and feasible, from substantial adverse change.⁶

The criteria for eligibility for listing in the California Register are based upon National Register criteria. These criteria are:

⁵ 36 Code of Federal Regulations 60, Section 60.4.

⁶ California PRC, Section 5024.1(a).

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

1. Associated with events that have made a significant contribution to the broad patterns of local or regional history or the cultural heritage of California or the United States.
2. Associated with the lives of persons important to local, California or national history.
3. Embodies the distinctive characteristics of a type, period, region or method of construction or represents the work of a master or possesses high artistic values.
4. Has yielded, or has the potential to yield, information important to the prehistory or history of the local area, California or the nation.

The California Register consists of resources that are listed automatically and those that must be nominated through an application and public hearing process. The California Register includes the following:

- California properties formally determined eligible for (Category 2 in the State Inventory of Historical Resources), or listed in (Category 1 in the State Inventory), the National Register of Historic Places.
- State Historical Landmarks No. 770 and all consecutively numbered state historical landmarks following No. 770. For state historical landmarks preceding No. 770, the Office of Historic Preservation (OHP) shall review their eligibility for the California Register in accordance with procedures to be adopted by the State Historical Resources Commission (commission).
- Points of historical interest which have been reviewed by the OHP and recommended for listing by the commission for inclusion in the California Register in accordance with criteria adopted by the commission.⁷

Other resources which may be nominated for listing in the California Register include:

- Individual historic resources.
- Historic resources contributing to the significance of an historic district.
- Historic resources identified as significant in historic resources surveys, if the survey meets the criteria listed in subdivision (g).

⁷ California PRC, Section 5024.1(d).

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

- Historic resources and historic districts designated or listed as city or county landmarks or historic properties or districts pursuant to any city or county ordinance, if the criteria for designation or listing under the ordinance have been determined by the office to be consistent with California Register criteria.
- Local landmarks or historic properties designated under any municipal or county ordinance.⁸

Local Designation Programs

The Los Angeles City Council designates Historic-Cultural Monuments on recommendation of the City's Cultural Heritage Commission.

Chapter 9, Section 22.171.7 of the City of Los Angeles Administrative Code defines an historical or cultural monument as:

"... a Historic-Cultural Monument (Monument) is any site (including significant trees or other plant life located on the site), building or structure of particular historic or cultural significance to the City of Los Angeles, including historic structures or sites in which the broad cultural, economic or social history of the nation, State or community is reflected or exemplified; or which is identified with historic personages or with important events in the main currents of national, State or local history; or which embodies the distinguishing characteristics of an architectural type specimen, inherently valuable for a study of a period, style or method of construction; or a notable work of a master builder, designer, or architect whose individual genius influenced his or her age."

Designation recognizes the unique architectural value of certain structures and helps to protect their distinctive qualities. Any interested individual or group may submit nominations for Historic-Cultural Monument status. Buildings may be eligible for historical cultural monument status if they retain their historic design and materials. Those that are intact examples of past architectural styles or that have historical associations may meet the criteria in the Cultural Heritage ordinance.

4.3 Historic Significance and Integrity

Significance

The definition of historic significance has been developed by the National Park Service for the administration of the National Register:

⁸ California PRC, Section 5024.1(e).

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

Historic significance is defined as the importance of a property to the history, architecture, archaeology, engineering, or culture of a community, state, or the nation.⁹ It is achieved in several ways:

- *Association with important events, activities or patterns*
- *Association with important persons*
- *Distinctive physical characteristics of design, construction, or form*
- *Potential to yield important information*

A property may be significant individually or as part of a grouping of properties.

Historic Integrity

Historic integrity is the ability of a property to convey its significance and is defined as the “authenticity of a property’s historic identity, evidenced by the survival of physical characteristics that existed during the property’s historic period.”¹⁰ The National Park Service defines seven aspects of integrity: *location, design, setting, materials, workmanship, feeling*, and *association*. These qualities are defined as follows:

- *Location* is the place where the historic property was constructed or the place where the historic event occurred.
- *Design* is the combination of elements that create the form, plan, space, structure, and style of a property.
- *Setting* is the physical environment of a historic property.
- *Materials* are the physical elements that were combined or deposited during a particular period of time and in a particular pattern or configuration to form a historic property.
- *Workmanship* is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory.
- *Feeling* is a property's expression of the aesthetic or historic sense of a particular period of time.

⁹ *National Register Bulletin 16A. How to Complete the National Register Registration Form*. Washington D.C.: National Park Service, U.S. Department of the Interior, 1997. (3)

¹⁰ Ibid.

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

- *Association* is the direct link between an important historic event or person and a historic property.¹¹

4.4 Age Threshold

The fifty-year age threshold has become standard in historic preservation as a way to delineate potential historic resources. The National Park Service, which provides guidance for the practice of historic preservation, has established that a resource fifty years of age or older may be considered for listing on the National Register of Historic Places. The National Register Criteria for Evaluation exclude properties that achieved significance within the past fifty years unless they are of *exceptional importance*. Fifty years is a general estimate of the time needed to develop historical perspective and to evaluate significance.¹²

Criteria for listing in the California Register of Historical Resources does not specify any minimum age requirement for consideration of historic significance although it is understood that a sufficient period of time would need to have passed so that the resource can be evaluated within its appropriate context. Technical assistance provided by the California State Office of Historic Preservation states “In order to understand the historic importance of a resource, sufficient time must have passed to obtain a scholarly perspective on the events or individuals associated with the resource. A resource less than fifty years old may be considered for listing in the California Register if it can be demonstrated that sufficient time has passed to understand its historical importance.”¹³

In the City of Los Angeles, “there is no requirement that a resource be a certain age before it can be designated”¹⁴ as a Los Angeles Historic-Cultural Monument. The City’s office of Historic Resources does qualify, however that “enough time needs to have passed since the resource’s completion to provide sufficient perspective that would allow an evaluation of its significance within a historical context.”

¹¹ *National Register Bulletin 15: How to Apply the National Register Criteria for Evaluation*. Washington D.C.: National Park Service, U.S. Department of Interior, 1995.

¹² *Ibid.* (2)

¹³ *California Office of Historic Preservation Technical Assistance Series #6 California Register and National Register: A Comparison (for purposes of determining eligibility for the California Register)* State of California Office of Historic Preservation, Department of Parks and Recreation (3)

¹⁴ City of Los Angeles Office of Historic Resources website, accessed February 2016.
<http://www.preservation.lacity.org/faq>

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

Much of the following information has been excerpted from the “LAX Master Plan EIS/EIR Appendix I Section 106 Report,” prepared by PCR Services Corporation in January of 2001. Other sources are otherwise noted.

5.1 Airport Development 1928-1951

Pioneering aviators began using a portion of ranch land west of Los Angeles, locally known as the “Bennett Rancho,” as a landing strip during the 1920s. The Bennett Rancho was promoted as a location for a Los Angeles municipal airport by realtor William W. Mines, after which the site became known as “Mines Field.” After Mines Field was selected as the location for the 1928 National Air Races, the City of Los Angeles leased 640 acres of the field for the Los Angeles Municipal Airport in August 1928.

In 1928, the Los Angeles Department of Airports (DOA) was established to administer the airport. Although intended as a regional airport for commercial air service, the Los Angeles Municipal Airport serviced only private pilots, flying schools and small aircraft manufacturers for several years. Plans to upgrade the airport for commercial airline services were halted with the onset of World War II. The federal government took control of the airport in January of 1942 and it was turned over for military use for the duration of the war.

During the war, the DOA was able to secure commitments from the major American commercial airlines¹⁵ to relocate to Los Angeles Municipal Airport after the war with the creation of a master plan for improvements to the airport. By 1947, six major airlines were operating at the airport. In 1949, the airport was officially named “Los Angeles International Airport” after the Civil Aeronautics Administration determined the airport suitable for international, intercontinental, and non-stop domestic flights.

Los Angeles’ postwar economic growth would effectively mandate continued improvements. Between 1947 and 1952, the number of travelers using or passing through the airport increased over 50 percent.¹⁶ By 1950, all facilities were operating beyond their capacity. Using airport revenue and some federal funding the airport was able to make several upgrades including runway expansions, terminal building

¹⁵ United Airlines, TWA, Western Air, American Airlines, and Pan American Airways.

¹⁶ Schwartz, Vanessa R., “LAX Designing for the Jet Age,” essay included in Overdrive L.A. Constructs the Future 1940-1990, De Wit, Wim and Christopher James Alexander editors, Getty Research Institute, Los Angeles, CA. 2013 (167)

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

expansions, more parking facilities and the Sepulveda Avenue tunnel under expanded runways.

5.2 “Jet Age” Development at LAX

Jet propulsion aircraft came to be understood by the general population in relation to military planes introduced during World War II. Jet passenger service began in the United States in the late 1950s with the introduction of the Boeing 707 and Douglas DC-8. Pan-American World Airways introduced overseas flights on Boeing 707 planes in October 1958, and Continental Airlines introduced jet service in 1959.

This began the “Jet Age,” which revolutionized air travel. Jet engine planes reduced travel times by nearly half, enabled air manufacturers to build bigger, faster, more productive planes, and airlines to reduce their operating costs and airfares.¹⁷ Jet aircraft continued to take a larger share of the market in the following years. It is estimated that almost 90 percent of air passenger miles were on jet aircraft by the end of the 1960s.¹⁸ The rise in air traffic brought unprecedented demands on airports.¹⁹ Airports across the country began construction on new and upgraded facilities to accommodate the increase in passengers.²⁰

Faced with a clearly inadequate infrastructure, in 1956 airport officials hired the architectural and planning firm of Pereira & Luckman to master plan a facilities overhaul that would bring LAX into the Jet Age. The effort was a joint venture with the firms of Welton Beckett and Associates and Paul R. Williams joining Pereira & Luckman. Airport improvements were funded by a voter-approved \$60 million bond.

As finalized in 1957, the new plan embraced the idea of decentralized or dispersed terminals. The plan distributed ticketing/baggage handling buildings along a U-shaped access road which wrapped a central mall containing surface parking, a restaurant, an employee cafeteria, electrical and heating plants, and the airport administration building. Each ticketing building was connected via an underground passageway to lozenge shaped satellite buildings with gates for boarding and deplaning. The satellite buildings contained passenger amenities including waiting areas, cocktail lounges, dining facilities, gift shops, and newsstands. The location of satellite terminals also

¹⁷ Smithsonian National Air and Space Museum, “America By Air,” accessed February 10, 2015, <https://airandspace.si.edu/exhibitions/america-by-air/online/heyday/heyday13.cfm>.

¹⁸ Schwartz (163)

¹⁹ William H. Young, and Nancy K. Young, *The 1950s* (Westport, CT: Greenwood, 2004, (265)

²⁰ Janna Eggebeen, “Airport Age: Architecture and Modernity in America” (dissertation, The City University of New York, 2007, (75)

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

maximized plane maneuverability and provided multiple points of access for boarding and deplaning.

Decentralization of the airport terminals was critical to the primary purpose of providing better continuity between ground and air for the new masses of travelers. The separation of ticketing and baggage check from waiting, boarding and deplaning over multiple terminals dispersed passenger activity throughout the airport, and reinforced a seamless experience in the travel experience from car to plane. Such decentralization also allowed the airport to better manage the anticipated increases in airplane travel and passenger numbers by reducing choke points in any single area.²¹

During their partnership and after going their separate ways in 1958, both William Pereira and Charles Luckman shared a commitment to research and planning as fundamental aspects of architectural design, and both were schooled in the principles of Modernism. The realized design at LAX was a rational and direct expression of the airport's purpose, utilizing a design aesthetic that emphasized simplicity and clarity of form. Within the minimalist landscape of the new CTA, symbolic representation of the new airport was reserved for two non-terminal buildings, the Airport Traffic Control Tower (ATCT) and the Theme Building. Punctuating the uniformly horizontal CTA with a 172-foot vertical tower, the new 1961 ATCT and Administrative Building was located at the airport's eastern and primary entrance from Century Boulevard. Designed in a Mid-century Modern style, the steel frame and reinforced concrete building was composed of two main parts: an office building forming a low base, and the actual control tower that rises above. Reputed to be the tallest of its kind when it was built, the form of the control tower and its integrated office building directly reflect its function and purpose.

Positioned on axis with the control tower at the geographic center of the CTA, the Theme Building was conceived as an alternative to the futuristic central building shown in early iterations of the plan.²² Unlike the other buildings on the site, the Theme Building did not necessarily serve a critical airport function and therefore allowed for more freedom in its design. Designed in an Expressionistic style, featuring two intersecting parabolic arches rising 135 feet from the ground, the building served as a public restaurant, the employee commissary, and housed the central kitchen facilities servicing all satellite restaurants throughout the airport. The building also had an

²¹ Schwartz (172)

²² Schwartz (173)

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

observation deck open to the public. Given its public use and futuristic design, the Theme Building eventually became the iconic symbol of the new Jet Age airport.

Implementation of the plan began in 1957 with the construction of field improvements and runway extensions. This was quickly followed by the necessary excavations for the underground components. The final phase included the construction of the terminal buildings and the ATCT which was completed in 1961. On January 13, 1962, the Theme Building opened to the public. The airport began fitting the underground passageways with moving sidewalks in 1964.

The CTA remained essentially in its original form through the 1970s, with the only major alteration being the construction of multi-level parking structures in the central mall. Extension of the ticketing/baggage claim buildings and additions to the terminal satellites were conducted in a modular manner that was uniform throughout the CTA and continued the original design aesthetic.

5.3 Airport Expansion 1981- Present Day

By the late 1970s demands on the airport had exceeded the existing capacity, a situation made untenable with the anticipation of Los Angeles being scheduled to host the Games of the XXIII Olympiad in 1984. In 1981, the Airport embarked on a major expansion program that included a second deck of the U-shaped access road to separate arriving and departing passengers, expansion and remodeling of the existing terminal buildings, new parking structures, a new international terminal at the west end of the CTA, and a newly constructed Central Utility Plant. The Airport named Gin Wong as the supervising architect with Bechtel Civil & Minerals, Inc. and DMJM overseeing construction. The new international terminal, named after Los Angeles Mayor Tom Bradley, (TBIT) was designed by a joint venture of William Pereira & Associates, Daniel Dworsky and Associates, Bonito A. Sinclair and Associates, and John Williams and Associates. The TBIT opened in 1984.

It was during the 1980s that above-ground concourse piers connecting the ticketing and baggage buildings to the terminal satellites were constructed. Alterations and wholesale replacement of terminal buildings would continue through the present day.

In 1996, a new ATCT was constructed, designed by Kate Diamond of Siegel Diamond Architects and Adrianna Levinescu of Holmes & Narver. The Tower rises over 100 feet taller than the 1961 ATCT to the east. In response to moving control operations to the new Tower, the 1961 Administration Building and ATCT were extensively altered in the early 2000s.

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

In 2010 construction began on a major expansion and rehabilitation of the TBIT. The project added new concourses to the west of the existing terminal building, as well as shops, restaurants, passenger lounges, security screening areas, customs, immigration, and baggage claim facilities. The terminal opened in phases beginning in September 2012, and was opened in 2013.²³ Work continues on the TBIT with a projected completion in 2017.

5.4 Adjacent Development

Prior to the establishment of Los Angeles Municipal Airport at Mine Fields, the Los Angeles region had become home to several aviation industry pioneers, including Glenn Martin, who built his first airplane in Santa Ana in 1906 and Donald Douglas, who in 1920 had founded the Davis-Douglas Company in Santa Monica. Airplane manufacturers appreciated the local climate which was conducive to flying and generally favored locations on or near airports. Soon after the airport opened, several small aircraft companies, including the Fleet Aircraft Manufacturing Company and Golden Eagle Aircraft established operations at the airfield.

Despite serious difficulties during the Depression, industrial development at or near the airport continued throughout the 1930s. By 1937 California had become the national leader in aircraft production and the Los Angeles Municipal Airport area employed 2,300 workers in the aircraft industry. With the approach of World War II, demand for aircraft accelerated further as the military stepped up production orders. At the peak of the war effort in 1943, fully 34 percent of the Los Angeles workforce was employed by the aviation industry.

Aircraft production contracted immediately following the war, but growing commercial air travel and the Cold War arms race meant the continued growth of the aviation industry. In addition, the benefits of locating near the airport – including the relatively low cost of land and proximity to transportation and skilled labor - proved to be equally attractive to manufacturers in other industries. The establishment of the airport was a potent further inducement for industry to locate nearby. Manufacturing and light industrial concerns continued to locate in proximity of the airport throughout the 20th century.

²³ “About LAX Development Program,” Los Angeles World Airports website accessed October 8, 2015. <http://www.lawa.org/laxdev/laxdev.aspx>

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

In 1962, construction began on a large commercial development along the north side of Century Boulevard.²⁴ Envisioned as a modern business district to include hotels, convention facilities, office buildings and retail uses, “International Airport Center” was the brainchild of the Del Webb Corporation in a lease agreement with the McCulloch Motors Corporation. McCulloch owned the land and had operated a manufacturing site on the property since 1946.²⁵ International Airport Center was planned and designed by Welton Beckett & Associates. Beckett & Associates was one of three architectural firms on the planning and design team for the LAX Jet Age expansion and was familiar with the site, having designed facilities on the McCulloch plant years earlier.²⁶ Beckett & Associates designed several buildings for the first phases of the International Airport Center project.

The first phase occupied a 12-acre parcel bounded by Century Boulevard, Sepulveda Boulevard, and 98th Street, eventually extending to Vicksburg Avenue. A second phase developed property between Century Boulevard and 98th Street west of Airport Boulevard. The McCulloch plant was located between the two developments. International Airport Center was purchased by Prudential Insurance in 1964 with Del Webb maintaining control of the property and its development under its lease agreement.²⁷ In 1967, Tishman Realty and Construction Company purchased additional land from the McCulloch site to expand the Center and broke ground on their first building in 1967.²⁸ McCulloch would eventually sell the remainder of its Century Boulevard holdings and relocated its manufacturing operations opening up all of the area between Sepulveda Boulevard, Century Boulevard, Airport Boulevard and 98th Street for development. The land continued to be developed with office buildings and hotels into the 1990s.

²⁴ “Center’s First Unit Rising,” *Los Angeles Times*, December 16, 1962

²⁵ “New Research Plant Finished,” *Los Angeles Times*, July 9, 1950 (F5)

²⁶ “Facility Wins Honor Award,” *Los Angeles Times*, June 7, 1953

²⁷ “Airport Center Purchased for 10.5 Million,” *Los Angeles Times*, July 7, 1964 (B7)

²⁸ “Tishman Will Expand at Airport,” *Los Angeles Times*, August 20, 1967 (N12)

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

HRG conducted a detailed site investigation of the APE in 2015 and 2016 to identify historically significant properties potentially eligible for listing in the National Register. Eligibility for the California Register and/or as Los Angeles Historic-Cultural Monuments was also considered during this investigation.

Informed by knowledge of the area's historic periods of development, HRG conducted a field investigation of the APE to locate potential historic resources. Assessment of properties for their potential historic significance, historic integrity, and identification of character-defining features were conducted through on-site inspection and survey of the APE in 2015 and 2016. Background research on the development of its built environment provided an important foundation for informed observations in the field. Previous evaluations of the area were consulted and those properties previously found eligible or otherwise noted are documented here.

Field investigation focused primarily on buildings, structures objects, and landscape features located within the APE. Factors of the analysis included age of buildings, architecture, historic integrity and relationships to larger development patterns in the area.

6.1 APE Investigation: CTA Sub-Area

The CTA Sub-Area of the APE is located in the central portion of the LAX property, west of the intersection of Sepulveda Boulevard and Century Boulevard. The CTA Sub-Area of the APE contains an area west of Sepulveda Boulevard and the central portion of the CTA circumscribed by World Way. World Way encompasses an oblong central mall approximately two-thirds of a mile in length containing eight multi-level parking structures, the airport's Central Utility Plant (CUP), service facilities, and, organized east to west along the CTA's central axis, the 1961 ATCT and Administration Building, the Theme Building, and the 1996 ATCT. The mall is lighted by a variety of pole fixtures including some original eight-armed pole fixtures.

The eight parking structures were constructed between 1966 and 2000. They range from three to five stories in height and are utilitarian in design. The CUP, located west of the 1996 ATCT, was constructed in 2014 to replace the airport's original CUP. Between the Theme Building and the control tower are two parallel rectangular buildings, each three bays long, with undulating roof plates. These are the remnants of the airport's Central Service Facility, originally consisting of two parallel structures, each sixteen bays long.

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

Previous Historic Evaluations

Two buildings located within the CTA have been previously evaluated for eligibility as historic resources. These building are as follows:

The LAX Theme Building

The Theme Building, completed in 1962, was originally constructed as the geographic centerpiece and visual focus of the CTA. It was designed by Pereira and Luckman in an Expressionistic style to serve as the futuristic symbol of the new “jet age” airport. It is located in the very center of the CTA, at the midpoint of the main east-west axis. It sits on a circular island ringed by a divided access road, Center Way, flanked to north by a USO and a surface parking lot, to the south by a surface parking lot, to the east by multi-story parking structures, and to the west by parallel rows of barrel-roofed service buildings and the 1996 ATCT.

The Theme Building is of reinforced concrete and steel frame construction, and its exterior surfaces are finished in cement plaster. It has a circular plan and is symmetrically composed. It consists of a one-story circular base with a roof terrace, surrounded by a perforated concrete screen wall; a central, cylindrical circulation and utilities core; and a pair of crossed parabolic arches supporting an observation deck with a cantilevered, circular restaurant (now closed) suspended below. The restaurant is encircled by canted, aluminum-framed glass walls. The primary entrance is symmetrically located on the east façade and is accessed through a wedge-shaped forecourt hollowed out of the base, with terrazzo paving embedded with metal stars, walls and columns clad in ceramic mosaic tile, and a textured plaster ceiling with a circular oculus to the terrace above. The entrance consists of two pairs of glass doors in a floor-to-ceiling, aluminum framed glass wall. The doors open to a lobby with terrazzo floor and base, curved wood-paneled screen walls, textured plaster ceiling, and recessed flush doors and transom panels. The lobby elevators provide access to the circular, glass-walled restaurant and the observation deck above. The restaurant interior was completely remodeled in the mid-1990s. A 2008 seismic retrofit of the building added five feet of height to the central core.

The Theme Building was designated as City of Los Angeles Historic Cultural Monument #570 on December 18, 1993.²⁹ In 2001, the Theme Building was determined eligible for listing in the National Register by consensus through a Section 106

²⁹ *City of Los Angeles Historic Cultural Monument (HCM) List, City Declared Monuments*, City of Los Angeles Department of City Planning, July 31, 2014. (21)

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

evaluation. It was found eligible under Criterion C for architectural significance and was determined to satisfy National Register Criterion Consideration G for exceptional significance in a building less than 50 years old (at the time of evaluation). Because the Theme Building was determined eligible for listing in the National Register by consensus, it is listed in the California Register.³⁰

1961 Airport Traffic Control Tower and Administration Building

The 1961 Administration Building (currently known as the Clifton A. Moore Administration Building) and ATCT forms the eastern terminus of the central axis of the CTA. It sits on an ovoid island ringed by access roads, and is surrounded by landscaping and mature palm and ficus trees. The building is Mid-century Modern in style and is of steel frame and reinforced concrete construction. It is composed of two main parts: an office building forming a low base, and the actual control tower that rises above.

The office building is two stories in height and has an irregular plan composed of interlocking square and rectangular volumes with two interior courtyards. It has a flat roof with built-up roofing. The exterior walls are composed of continuous bands of tinted, glazed aluminum storefront at the ground floor and ribbon windows at the second, alternating with continuous spandrels of scored cement plaster. The primary entrance is located on the southwest façade and consists of two pairs of glazed aluminum doors.

The 1961 Airport Traffic Control Tower rises from the main interior courtyard. It has a square plan and is 13 stories in height. It is raised on four square concrete *piloti*, leaving the ground floor open except for the concrete stair and elevator tower. The exterior walls of the second through twelfth stories consist of continuous bands of aluminum-framed ribbon windows alternating with continuous spandrels of scored cement plaster. At each floor the tower is ringed by narrow cantilevered platforms with metal grates, and continuous horizontal metal pipe railings with angled metal vertical supports. The thirteenth story consists of the former control cab, set back from the tower perimeter and surrounded by a simple metal railing. The cab is square in plan with continuous bands of angled glass windows on all four sides and a flat roof.

In 2001, the 1961 ATCT was found ineligible for listing in the National Register due to extensive alterations that had compromised its integrity. The Historic Resources

³⁰ *LAX Specific Plan Amendment Study Draft EIR*, Los Angeles International Airport, July 2012 (4-337)

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

evaluation for the 2012 LAX Specific Plan Amendment Study Draft EIR reiterated the Tower's ineligibility for the National Register and found it ineligible for the California Register and as a City of Los Angeles Historic Cultural Monument. The 2012 report stated that the 1961 ATCT did "contribute to the setting of the Theme Building" but did not make clear what that meant in terms of historic resources. Because the CTA has been extensively altered since its original construction, including the construction of multi-level parking structures on what was originally a surface parking lot surrounding the Theme Building, it is unclear how the 1961 ATCT "contributes" to the Theme Building setting. For the purposes of this report, the CTA and its constituent parts were evaluated to determine whether it qualified as a historic district; it was determined that no historic district existed (see below). The 1961 ATCT is a remnant of the original CTA design and is considered as a resource separate from the Theme Building for the purposes of Section 106.

Additional Evaluations

1961 Airport Traffic Control Tower and Administration Building

HRG field investigation identified the 1961 Administration Building and ATCT as warranting re-evaluation as a potential historic resource by virtue of its historic associations and age. The 1961 Administration Building and Airport Traffic Control Tower is potentially historically significant – and therefore eligible for historic designation – under National Register Criterion A and California Register Criterion 1 for its association with the mid-20th Century expansion and upgrading of LAX to accommodate the new era of jet airplane travel and the increase in commercial air travel made possible by jet propulsion technology.

The 1961 Administration Building and ATCT have been extensively altered, particularly the two-story Administration Building portion. Alterations include enclosure of its ground floor, partial enclosure of the original interior courtyard, enclosure of the original glass-walled second-story bridges that connected the north and south office wings; the removal of the original exterior mosaic tile wall cladding and horizontal window canopies on the north and south façades; and the construction of a large two-story addition to the northwest.

The Tower portion has been altered by the removal of the original aluminum vertical louvers and the addition of metal pipe railings at each floor but continues to retain several original features including its square plan, 13 story height, and flat roof; control cab with angled, continuous, fixed aluminum-framed ribbon windows and surrounding roof deck; continuous, fixed, aluminum-framed ribbon windows; scored cement plaster spandrels; continuous aluminum grates; exposed concrete *piloti*, elevator/stair shaft,

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

and screen wall at ground floor; and its second-story bridge to the Administration Building with ceramic mosaic tile wall cladding and aluminum-framed clerestory window. The original immediate surroundings and landscape have also been completely altered.

Due to extensive alteration of the two-story Administration portion and alterations to the Tower portion, the building no longer retains integrity of *design, setting, materials* or *workmanship* and therefore does not retain sufficient integrity to be eligible for listing in the National Register under Criteria A or C. The California Register criteria is somewhat more forgiving than the National Register criteria when it comes to integrity but given the overall alteration of its architectural design, the building is also not eligible for listing in the California Register under Criterion 1 or 3.

Because the Tower portion retains its vertical form and control cab, it is still recognizable as a control tower from the period of significance. Despite alterations, it continues to retain integrity of *location, feeling* and *association*. The Tower remains in its original location at the eastern entry into the CTA and retains its historic axial relationship with the Theme Building. It therefore continues to convey its historic association with the Jet Age redesign of LAX and the transformative effects of jet travel. For these reasons, the Tower does appear eligible for local listing as a City of Los Angeles HCM.

Terminal 6 Sign Tower (1961)

The Terminal 6 Sign Tower is located adjacent to the north façade of the Terminal 6 ticketing/baggage claim building, on the south side of World Way in the Central Terminal Area of LAX. The Sign Tower was one of six free-standing pylon signs constructed as part of the 1961 upgrade of LAX that created a contemporary international airport for the “Jet Age.” The master plan and original buildings were designed by a joint venture of three prominent Los Angeles architectural firms, Pereira & Luckman, Welton Becket & Associates, and Paul R. Williams.

The towers were constructed of tube steel with concrete footings, and were approximately four stories in height. They were located on the landside of each ticketing building, to be visible from the central parking area, and rose through apertures in the overhanging flat roof canopies that sheltered the passenger drop-off/pickup areas.

The Terminal 6 sign tower is the only LAX terminal sign tower that remains intact and in its original location. SurveyLA, the City of Los Angeles’ citywide historic resources survey, has developed a methodology and eligibility standards for evaluating historic signs which may or may not be associated with historic buildings. Pylon signs represent

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

one structural type of sign significant to the commercial, cultural, and urban development of Los Angeles, the development of the city in association with transportation, and the development of significant architectural styles and promotional and identification techniques oriented to mobile audiences.

The Terminal 6 sign tower was originally constructed as an integral, vertical architectural element of the Terminal 6 ticketing building, to bear the building's identity and be read from a distance by travelers arriving by automobile in the airport's original central surface parking area. Much of the sign structure has been subsumed by additions and new construction to the Terminal 6 ticketing and baggage building and the sign structure can no longer be viewed as it was originally intended. This alteration in the immediate setting of the Terminal 6 sign tower has compromised its integrity such that it does not appear eligible for the National Register or California Register. The sign does remain in situ, however and continues to evoke associations with the original "Jet Age" master plan and design of LAX when it can be viewed. For these reasons, the Terminal 6 sign tower is individually eligible for designation as a City of Los Angeles Historic-Cultural Monument.

Potential Historic District

Because the CTA represents a collection of related buildings, structures, objects and sites originally master-planned, designed and constructed as a unified entity, consideration of the CTA as an historic district is appropriate for its evaluation.

The buildings, structures and sites located within the CTA are potentially significant as a historic district under National Register Criterion A and California Register Criterion 1 for their association with the mid-20th Century expansion and upgrading of LAX to accommodate the new era of jet airplane travel and the increase in commercial air travel made possible by jet propulsion technology. The CTA is also potentially significant as a historic district under National Register Criterion C and California Register Criterion 3, as an excellent example of Jet Age airport planning and design and its association with the planning and design team of Pereira and Luckman, Welton Becket & Associates, and Paul R. Williams. The period of significance is 1957-1962 which encompasses the initial construction and completion of the CTA.

Currently, the CTA contains twelve (12) buildings. Of these, eight (8) remain from the period of significance. As explained previously, the Theme Building and the 1961 ATCT have retained sufficient integrity to convey their historic significance as individual resources and would, therefore, be considered contributing resources to a potential historic district. Terminal 3, which does not retain sufficient integrity to be eligible for listing as an individual resource, is the most intact of the remaining terminal buildings,

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

having retained the original tunnel and many character-defining features in the satellite building. As such, it would also be considered a contributing resource to a potential historic district. Due to substantial alteration, none of the remaining terminal buildings from the period of significance retain sufficient integrity to convey their historic significance. Out of the 12 buildings currently present in the CTA only 3 would qualify as contributing.

In addition to the Theme Building and 1961 ATCT, remnant objects and structures also remain throughout the CTA. These include three eastern bays of the Central Service Facility; the sign tower for Terminal 6, and remnant eight-armed light poles. Internal underground tunnels linking the ticketing/baggage buildings to the terminal satellites also remain. In addition, the World Way U-shaped access road retains its basic historic configuration. As noted above, the sign tower for Terminal 6 appears individually eligible for designation as a Los Angeles Historic Cultural Monument. None of the other remaining elements are eligible for individual designation.

Given the extent of alterations and new construction within the CTA since the period of significance the remaining original buildings and features do not collectively retain sufficient integrity to qualify as a historic district. For any potential historic district, non-contributing buildings, structures, objects and site features located within the CTA would greatly outnumber contributors. The CTA does not exhibit the necessary ratio of contributing elements to non-contributing elements in order to qualify for listing as a historic district under National Register, California Register or local criteria.

6.2 APE Investigation: East of the CTA Sub-Area

HRG conducted a reconnaissance-level survey of the APE Sub-Area East of the CTA to identify historically significant properties potentially eligible for listing in the National Register, California Register or as Los Angeles Historic-Cultural Monuments. The area of investigation is roughly bounded by Arbor Vitae Street to the north, Century Boulevard to the south, Interstate 405 to the east, and Sepulveda Boulevard to the west.

Previously Identified Historical Resources

Five (5) buildings and one (1) structure located within the area of investigation have been previously identified as eligible for historic listing through survey evaluation. These resources are discussed below.

9841 N. Airport Boulevard (Airport Century Building)

The mid-rise office building at 9841 N. Airport Boulevard was constructed in 1968. It was designed by the architectural firm of Welton Beckett & Associates as part of the

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

“International Airport Center” commercial development located on the north side of Century Boulevard just east of the CTA. The Airport Century Building was found eligible for the National Register, California Register and for local listing by SurveyLA in 2013. The building was found significant as an excellent example of Corporate International architecture, and as a representative example of the work of master architects Welton Beckett & Associates.

5959 W. Century Boulevard (Tishman Airport Center Building)

The 12-story office building at 5959 W. Century Boulevard was designed by Welton Beckett & Associates as part of the “International Airport Center” commercial development located on the north side of Century Boulevard just east of the CTA. Constructed in 1966, this mid-rise commercial office building was found eligible for the National Register, California Register and for local listing by SurveyLA in 2013. The building was found significant as an excellent example of Corporate International architecture, and as a representative example of the work of master architects Welton Beckett & Associates.

6151 W. Century Boulevard (The McCulloch Building)

This 12-story office building at 6151 W. Century Boulevard was designed by Welton Beckett & Associates as part of the Airport Center project. Constructed in 1964, this mid-rise commercial office building was found eligible for the National Register, California Register and for local listing by SurveyLA in 2013. The building was found significant as an excellent example of Corporate International architecture, and as a representative example of the work of master architects Welton Beckett & Associates. This building is currently being remodeled from an office building to a hotel.

9800 S. Sepulveda Boulevard (Union Savings and Loan)

The eight-story office building at 9800 S. Sepulveda Boulevard was originally constructed for Union Savings and Loan in 1964. The building was designed by Welton Beckett & Associates as part of the “International Airport Center” commercial development located on the north side of Century Boulevard just east of the CTA. This mid-rise commercial office building was identified as eligible for the California Register and for local listing through survey evaluation in 2012. It was not found eligible for listing in the National Register. The Union Savings and Loan Building was found significant as an example of the New Formalist architectural style as applied to a bank

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

building, and as a representative example of the work of master architects Welton Beckett & Associates.³¹

Air Raid Siren No. 150

Located on the south side of W. 98th Street just east of Airport Boulevard, this rotating air raid siren on a freestanding pole was identified as eligible for the National Register, California Register, and local designation by SurveyLA in 2013.³² Constructed in 1940, the siren was evaluated as historically significant for its association with World War II and Cold War military infrastructure.

Additional Evaluations

HRG field investigation has identified two (2) additional buildings that warrant evaluation as potential historic resources by virtue of their historic associations, age, and/or architectural style. These properties are examined below.

9700 S. Sepulveda Boulevard (Aircraft School)

The property at 9700 S. Sepulveda Boulevard contains a handful of modest single-story buildings set within an expanse of surface parking. The largest of the buildings is rectangular in plan with a bow-truss roof and monitor, horizontal wood cladding, and metal-frame, multi-light casement windows. The building is constructed in a vernacular/industrial style. Two smaller buildings with gable roofs and a rectangular masonry building with a flat roof and attached shade canopy are clustered just south of the bow-truss roof building. A rectangular building of more recent vintage is set apart from the others at the northwest corner of the site.

9700 S. Sepulveda Boulevard was originally developed by the “Los Angeles City High School District” in 1941 for use as a “National Defense Training School.” A single, rectangular wood and metal truss-roof building was constructed. According to the 1941 permit, no other buildings or structures were present on the site prior to this construction.³³

In 1945 and 1948, permits indicate additional buildings were constructed and interior alterations were done to the original building. Beginning in 1945, the property is referred to as the “Los Angeles City Aircraft School” with the “Los Angeles City School

³¹ *LAX Specific Plan Amendment Study Appendix E Cultural Resources Report*, prepared by PCR Services Corporation, July 2012. DPR forms 523A, 523B and 523L for 9800 S. Sepulveda Boulevard, December 14, 2011.

³² *SurveyLA Historic Resources Survey Report Westchester – Playa Del Rey Community Plan Area*, prepared by Architectural Resources Group, November 27, 2013. (31)

³³ Permit No. 9967 dated April 21, 1941.

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

District” as its owner. Permits indicate several “school buildings” present on site.³⁴ The May, 1950 Sanborn map shows the original bow-truss roof building, a small “hangar” building, a smaller “fire proof” shop building, and two U-shaped classroom buildings clustered together within a large surface parking lot.

Since 1950, it appears that the site continued operation as an aircraft construction and repair training school, most recently as the Los Angeles College Aircraft School. Several additional rectangular buildings located immediately north of the bow-truss building were present as late as November of 2014. They have since been removed.³⁵ The property is today largely used for temporary parking, but the West Los Angeles College currently uses the buildings for the warehousing of movie set props and for instruction to support its Film/Television Production Crafts program.

Evidence suggests that the property has a long historic association with training in the aircraft trades in service of the explosive post-World War II growth of the aerospace industry in Southern California. Constructed for civil defense training just eight months prior to the Japanese attack of Pearl Harbor, the property may also have direct associations with the war effort. As such, it appears the property is eligible under National Register Criterion A, California Register criterion 1 and under Los Angeles HCM criteria as a rare intact example of an aircraft training facility from the 1940s. The property is representative of the 20th century development of aircraft and aerospace related industries and services that clustered near the airport beginning with the establishment of Mines Field. Aircraft-related development around the airport greatly intensified during and after World War II. Consolidation of the aerospace industry towards the end of the 20th century caused much of this activity to relocate to more favorable locations, while the continued expansion of LAX resulted in much of the surrounding property being turned over for parking, rental car facilities and lodging.

It appears, however, that only the rectangular bow-truss building appears to have retained sufficient integrity to convey the historic significance of the property.

5855 W. Century Boulevard (Airport Marriott Hotel)

The hotel property located at 5855 W. Century Boulevard was constructed in 1972, as the Airport Marriott Hotel, and officially opened in September of 1973. It was

³⁴ Permit No. 6271 dated May 7, 1945; Permit No. 9705 dated July 5, 1945; Permit No. 9706 dated July 5, 1945; Permit No. LA33829 dated December 28, 1948.

³⁵ Google Earth historic aerial photos accessed November 7, 2015.

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

reportedly the first Marriott hotel in California and the largest hotel property built by Marriott at the time of its construction.³⁶ Rectangular in plan, the property includes three five-story wings and an 18-story tower wing wrapping a central patio area with swimming pool. A two-story rectangular volume containing dining, retail, meeting spaces, and other guest amenities sits east of the tower wing. The primary entrance facing Century Boulevard includes a projecting flat-roofed porte-cochere accessed by a U-shaped driveway. It was reportedly designed by Marriott corporate architects.

The Airport Marriott Hotel has not been previously identified as historically significant but it appears to retain the majority of its original features and appears to be significant on the local level as a rare, intact example of a large hotel property from the early 1970s. Constructed in 1973, the Airport Marriott Hotel is 42 years old and does not appear to be of “exceptional importance” required under National Register Criteria Consideration G for properties less than fifty years of age. Therefore, the Airport Marriott Hotel is not eligible for listing in the National Register at this time. For similar reasons, the Airport Marriott Hotel does not appear eligible for the California Register at this time as there is no substantial scholarly research on the commercial architecture of the 1970s outside of the work of specific architects. The property does appear to be a rare, intact example of a large, hotel and convention property from the 1970s and is therefore eligible as a Los Angeles Historic-Cultural Monument.

6.3 APE Investigation: Imperial-Aviation, La Cienega Boulevard, and 405 Access Ramp Sub-Areas

The Imperial-Aviation Sub-Area of the APE is a largely vacant block used for construction staging and storage. It was previously used as a surface parking lot as far back as the early 1950s. The Imperial-Aviation Sub-Area does not contain any buildings, structures, objects or sites identified as historically significant. The La Cienega and 405 access ramp right-of-ways also do not contain any buildings, structures, objects or sites identified as historically significant.

6.4 Identification of Historic Resources Summary

Investigation of the LAMP APE identified five (5) buildings and one (1) structure that are eligible for listing in the National Register. Three (3) additional buildings were identified as not eligible for the National Register but eligible for the California Register and/or for local listing. A map of the all properties located in the APE and identified as eligible for listing as historic resources can be found in Figure 2.

³⁶ “Party Celebrates Opening of Hotel,” *Los Angeles Times*, September 10, 1973. (D2)

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

APE: CTA Sub-Area

The CTA Sub-Area contains one (1) building, the Theme Building that was determined eligible for listing in the National Register by consensus through a Section 106 evaluation, has been listed in the California Register and has been designated a City of Los Angeles HCM. Because the Theme Building has been determined eligible for the National Register, it qualifies as a historic resource under Section 106.

The CTA Sub-Area also contains one (1) building, the 1961 ATCT; and one (1) structure, the Terminal 6 Sign Tower that both appear eligible for listing as a City of Los Angeles HCM. Neither the 1961 ATCT is eligible for the National Register or California Register and do not, therefore, qualify as historic resources for the purposes of Section 106. No other buildings, structures, objects or sites located within the CTA Sub-Area appear eligible for listing as a historic resource.

APE: East of the CTA Sub-Area

Four (4) buildings and one (1) structure located within the East of the CTA Sub-Area have been previously identified as eligible for historic listing through survey evaluation. Of these, three (3) buildings and (1) structure were found eligible for listing in the National Register and are, therefore, considered historic resources for the purposes of Section 106. These resources are the mid-rise commercial office building at 5959 W. Century Boulevard (1966); the mid-rise commercial office building at 6151 W. Century Boulevard (1964); and the Air Raid Siren (1940) located on the south side of W. 98th Street just east of Airport Boulevard. The mid-rise office building at 9800 S. Sepulveda Boulevard (1964) was previously found eligible for the California Register but not found eligible for the National Register and is, therefore, not considered a historic resource for the purposes of Section 106.

Investigation of the East of the CTA Sub-Area has identified two (2) additional buildings that were not previously identified but appear eligible for historic designation. The former aircraft school at 9700 S. Sepulveda Boulevard (1941) was found eligible for the National Register and is considered a historic resource for the purposes of Section 106. The Airport Marriott Hotel located at 5855 W. Century Boulevard (1972) was found eligible for local listing but is not eligible for the National Register or California Register and is not considered a historic resource for the purposes of Section 106.

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

APE: Imperial-Aviation, La Cienega Boulevard and Interstate 405 Access Ramp Sub-Areas

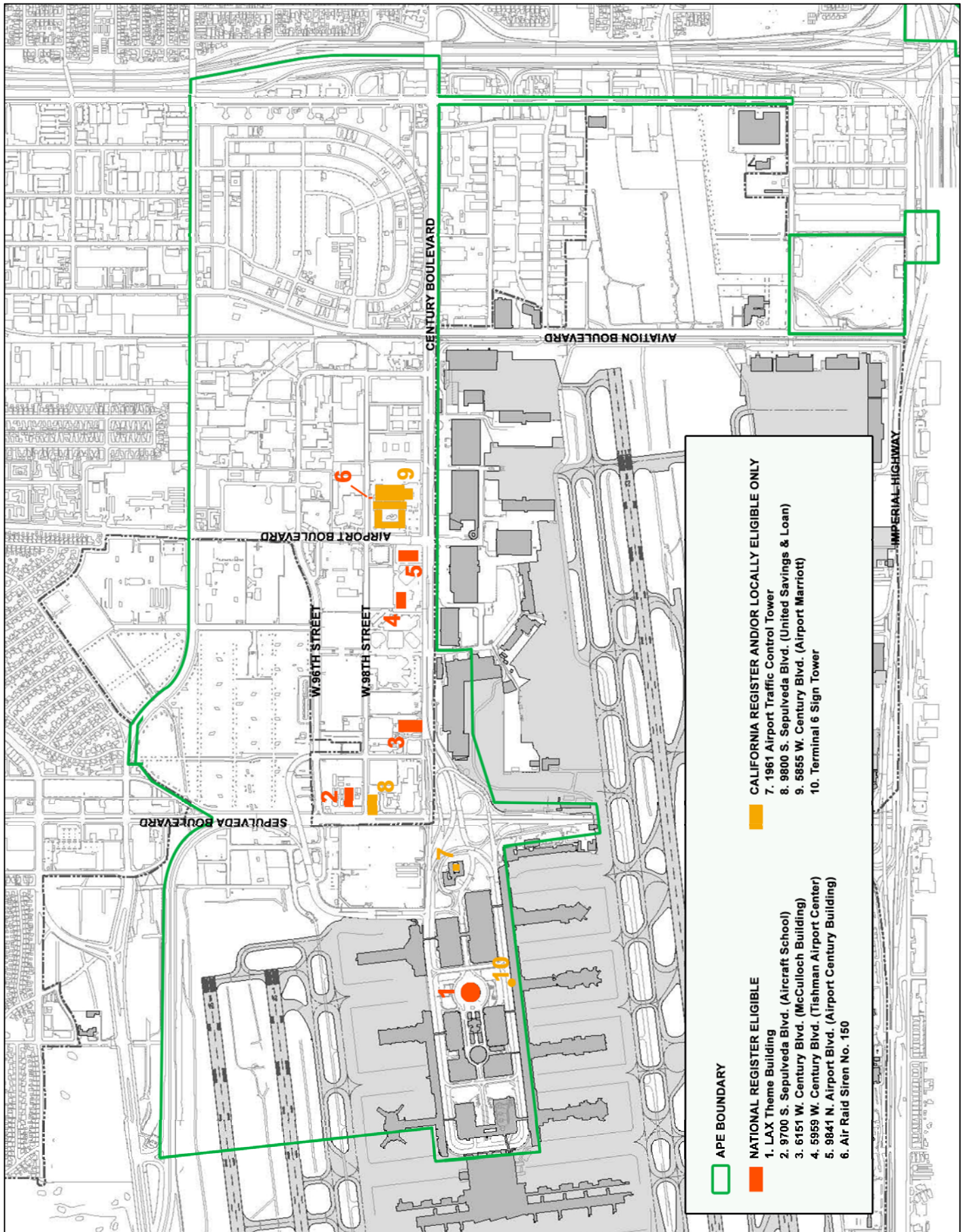
37

The Imperial-Aviation, La Cienega Boulevard and Interstate 405 Access Ramp Sub-Areas do not contain any resources eligible for the National Register, California Register or for local listing as a City of Los Angeles Historic Cultural Monument.

LAX Landside Access Modernization Program
Section 106 Assessment
February 2017

HISTORIC RESOURCES GROUP

Figure 2: Historic Resources Identified Inside the APE



If historic properties are present in the APE, the effect the undertaking would have on those historic properties must be assessed. An “effect” is defined as an alteration to the characteristics of an historic property qualifying it for inclusion on, or eligible for inclusion on, the National Register.³⁷ The potential effects on historic properties by LAMP are assessed in this section.

A “historic property” is defined for the purposes of Section 106 as any prehistoric or historic district, site, building, structure, or object included in, or eligible for inclusion in, the National Register. This includes both properties formally determined as such and all other properties that meet the National Register criteria.³⁸ Resources located within the APE that have been identified as eligible for the National Register are listed in Table 1.

7.1 Criteria for Adverse Effect on Historic Properties

Consistent with Section 106 regulations, the FAA’s Section 106 handbook indicates that FAA would determine that the effect of an undertaking is adverse if it alters any of the characteristics that qualify the historic property for inclusion in the National Register in a manner that diminishes the integrity of the property’s location, design, setting, materials, workmanship, feeling, or association.³⁹ A finding of adverse effect on a historic property is appropriate when the undertaking would:

- physically destroy or damage the property;
- alter the property in a way that is inconsistent with the Secretary of the Interior’s Standards for Treatment of Historic Properties (see 36 CFR part 68);
- remove the property from its historic location;
- change the character of the property’s use, or of physical features within the property’s setting that contribute to its historic significance;
- introduce an atmospheric, audible, or visual feature to the area that would diminish the integrity of the property’s significant historic features (including its setting, provided the setting has been identified as a contributing factor to the property’s historical significance); or

³⁷ 36 Code of Federal Regulations 800.16(i)

³⁸ 36 Code of Federal Regulations 800.16(l)(1)(2)

³⁹ 36-Code of Federal Regulations 800.5(a)(1)(2)

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

- result in neglect of a property which would cause its deterioration or the transfer, sale, or lease of a property out of Federal ownership or control without adequate protection to ensure the long-term preservation of the property's historic significance.⁴⁰

7.2 Potential Adverse Effects to Historic Resources Located within the CTA Sub-Area

As noted in Section 6 of this report, investigation of the CTA Sub-Area revealed one (1) building, the LAX Theme Building, that has been determined eligible for listing in the National Register by consensus determination and is considered a historic resource for the purposes of Section 106.

Alterations Associated with the LAMP Project

The LAMP project does not include the demolition, destruction, damage or relocation of the Theme Building. The LAMP project would construct the APM guideway to traverse east-west through the center of the CTA. The project would also construct three APM stations, and three enclosed elevated pedestrian walkways traversing the CTA north-south. The proposed elevated APM guideway would approach the Theme Building from the east along Center Way, the central axis between the Theme Building and the former Airport Traffic Control Tower, and would curve around the north side of the Theme Building before continuing west toward TBIT. The guideway would be approximately 70 feet above ground around the Theme Building, supported on concrete columns. The proposed APM train cars would be approximately 42 feet long, 9 feet wide and 12 feet in height. The proposed APM trains would include up to 5 cars and would operate 24 hours a day, 7 days per week. During peak periods of operation, operating headway intervals (time between trains at a given station) would be approximately 2 minutes. A proposed new elevated passenger walkway, connecting the APM to terminals 2 and 6, would angle around the west side of the Theme Building just below the level of the guideway. (See Figure 3)

The Theme Building is historically significant for its unique architectural design distinguished by two intersecting parabolic arches supporting an observation deck with a cantilevered, circular restaurant space below. Originally conceived as the visual centerpiece of the CTA and designed to be viewed from all sides, the Theme Building was visible from any location within the CTA at the time of its construction and provided commanding views of the airport from its observation deck and restaurant

⁴⁰ *Section 106 Handbook: How to Assess the Effects of FAA Actions on Historic Properties under Section 106 of the National Historic Preservation Act*, Federal Aviation Administration, June 2015 (27)

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

space. In the intervening years, the construction of multi-level parking structures, elevated roadways and expanded terminal buildings within the CTA have obscured the central prominence of the Theme Building. Parking structures have long since replaced the majority of the flat expanse of surface parking that originally surrounded the Theme Building to the east and west. The upper deck of World Way has also obscured much of the direct visual connection between the Theme Building and the Terminal Buildings. Today, the Theme Building is only intermittently viewable from within the CTA.

Open surface parking remains to the immediate south of the Theme Building. With the exception of a single-story temporary building currently occupied by the USO, surface parking and open space also remains to the immediate north of the Theme Building. These open areas are important features of the Theme Building setting that continue to convey some semblance of the flat, open surroundings of the Theme Building when it was originally constructed. Experiencing the Theme Building at ground level from the immediately adjacent open areas provides the closest approximation today of the Theme Building's original physical context. The remaining open space also allows for important views to the Theme Building from the northern portion of World Way looking south, and from the southern portion of World Way looking north. (See Figure 4)

The apex of the Theme Building's two arches, the restaurant space and observation deck continue to rise above the parking structures, elevated roadway and terminal buildings that have been added to the CTA since its original construction. The 1961 ATCT also remains in place at the east end of the CTA maintaining the axial east-west alignment of the Theme Building and the 1961 ATCT as originally constructed.

Integrity Analysis

Because the LAMP project would build new structures immediately adjacent to the Theme Building its immediate surroundings would be altered. In order for this alteration to be considered adverse, however, it must be shown that the integrity and/or significance of the Theme Building would be diminished. As noted in Section 4.3 of this report, the ability of a historic resource to convey its significance is called historic integrity. Historic integrity is defined as the "authenticity of a property's historic identity, evidenced by the survival of physical characteristics that existed

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

during the property's historic period.”⁴¹ The National Park Service identifies seven aspects of integrity: *location, design, setting, materials, workmanship, feeling, and association*. An analysis of the LAMP project and its potential effects to the Theme Building with respect to the seven aspects of historic integrity is provided below.

Location is defined as “the place where the historic property was constructed or the place where the historic event occurred.” The LAMP project would not relocate the Theme Building or any of its component parts. The Theme Building would remain in the original place where it was constructed and would retain integrity of *location* after implementation of the LAMP project.

Design is defined as “the combination of elements that create the form, plan, space, structure, and style of a property.” The LAMP project, including the construction of the APM guideway and elevated walkway adjacent to the Theme Building would not result in any physical alteration of the Theme Building. The form, plan, space, structure and style of the Theme Building will remain intact and the Theme Building would retain integrity of *design* after implementation of the LAMP project.

Setting is defined as “the physical environment of a historic property.” The proposed guideway and walkway would alter the physical environment of the Theme Building by constructing new structures to the immediate north, east and west. The APM guideway will occupy a portion of the surface parking lots located along the north side of the Theme Building, filling in a portion of the remaining surrounding parking areas that originally defined the historic setting of the Theme Building. Construction of the elevated walkway would place a new structural element to the immediate west of the Theme Building.

The APM guideway would be constructed within 43 feet of the Theme Building at its closest point. The elevated walkway would be approximately 20 feet from the Theme Building at its closest point. The APM guideway and walkway would obscure and fragment views of the Theme Building from the east, north, and west, including views from the upper and lower levels of the north side of World Way after entering the CTA (see Figures 5 and 6). Only portions of the Theme Building would be visible above and below the guideway and between the columns from the north side of the Theme Building. Moreover, the superimposition of the horizontal and vertical elements of the

⁴¹ National Register Bulletin 16A. How to Complete the National Register Registration Form. Washington D.C.: National Park Service, U.S. Department of the Interior, 1997. (3)

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

guideway and its supporting concrete columns would obfuscate the expressive forms and composition of the Theme Building's parabolic arches, circular base, perforated screen wall, restaurant, and central circulation and utilities core.

The heights of both structures would be approximately equal to the level of the Theme Building restaurant space. APM trains will add another 12 feet of height as they pass by along the APM guideway, which during peak periods could be as often as once every 2 minutes. Views from the interior of the restaurant, which was designed with canted glass walls to provide a 360-degree panorama of the surrounding airport, would be partially obstructed. The view from the restaurant interior, and from the observation deck above, would be obstructed to the east, north, and west, leaving only the view south unimpeded.

Because structures associated with the LAMP project would be constructed within the parking lots that surround the Theme Building, and these parking areas are an important component of the Theme Building setting, the Theme Building would not retain integrity of *setting* after implementation of the LAMP project.

As quiet is not an element of the original setting and none of the Theme Building's uses has quiet as a critical attribute (the Theme Building is located in the middle of the CTA and is affected by both vehicle traffic and aircraft noise), audible changes related to the operation of the APM trains would not affect the setting.

Materials are defined as "the physical elements that were combined or deposited during a particular period of time and in a particular pattern or configuration to form a historic property." The LAMP project, including the construction of the APM guideway and elevated walkway adjacent to the Theme Building would not result in any physical alteration of the Theme Building. All of the physical elements of the Theme Building would remain intact and the Theme Building would retain integrity of *materials* after implementation of the LAMP project.

Workmanship is defined as "the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory." The LAMP project, including the construction of the APM guideway and elevated walkway adjacent to the Theme Building would not result in any physical alteration of the Theme Building. All of the physical evidence of how materials were shaped and constructed to create the unique form, structure and style of the Theme Building would remain intact and the Theme Building would retain integrity of *workmanship* after implementation of the LAMP project.

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

Feeling is defined as “a property’s expression of the aesthetic or historic sense of a particular period of time.” Because the LAMP project would alter the immediate surroundings of the Theme Building by constructing new structures currently occupied by surface parking, the expressive form and design of the Theme Building would be substantially less discernible when viewed from the east, north and west. Its original function providing views from its restaurant and observation deck would also be further reduced. For these reasons, integrity of *feeling* would be somewhat compromised. The Theme Building would, however, remain physically intact in its original location and its unique architectural form would continue to be discernible and understandable despite alteration to its setting. The Theme Building would retain integrity of *feeling*.

Association is defined as “the direct link between an important historic event or person and a historic property.” The Theme Building is historically significant under National Register Criterion C for its distinctive architecture and does not derive significance for its association with any persons or events. Therefore, integrity of *association* is not relevant to this analysis.

In summary, the Theme Building would retain integrity of *location, design, materials, workmanship* and *feeling* after implementation of the LAMP project. Integrity of *setting* would be compromised.

Conclusions

As noted above, a finding of adverse effect is appropriate when an undertaking changes “physical features within the property’s setting that contribute to its historic significance,” and “introduces an atmospheric, audible, or visual feature to the area that would diminish the integrity of the property’s significant historic features...” The proposed construction of the APM and walkway associated with LAMP would reduce the integrity of the *setting* of the Theme Building. Alteration of setting would partially obscure unique features of the Theme Building’s architectural design as well as its original function from certain perspectives. For these reasons, the construction of the APM guideway and the elevated walkway would result in an adverse effect to the Theme Building as defined by Section 106.

Notwithstanding the adverse effect due to alterations of the setting, the Theme Building is significant under Criterion C for its architecture, and this significance is conveyed primarily through its plan, form, architecture and design features. It is through the direct experience of the building that its historic significance as a work of architecture is understood. According to National Park Service Guidance, a property significant under National Register Criterion C must retain most of the physical

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

features that constitute the architectural style or construction techniques the property represents.⁴² As discussed earlier, neither the APM guideway and train, nor the passenger walkway would physically touch the Theme Building. The Theme Building would not be physically altered by construction of the APM guideway or the elevated passenger walkway. All of the Theme Building's significant architectural features, including the symmetrically composed circular plan; crossed parabolic arches; observation deck with cantilevered, circular restaurant suspended below; and perforated concrete screen wall would remain.

Important aspects of the setting would remain intact as well. These include the surface parking area directly south of the Theme Building, which would continue to provide a sense of the original flat, open surroundings. As is true today, the Theme Building would remain intermittently viewable from within the CTA. Views to the Theme Building from the south side of World Way looking north would remain. Views of the Theme Building from the upper and lower levels of the north side of World Way after entering the CTA would also remain in a somewhat obscured form. In addition, the 1961 ATCT would remain in place on axis with the Theme Building.

According to National Park Service guidance, "to retain historic integrity a property would always possess several, and usually most, of the (seven) aspects" of integrity.⁴³ Because construction of the APM guideway and elevated walkway would not result in any physical alteration of the Theme Building, it would retain integrity of *location, design, materials, workmanship* and *feeling*, or five of the six relevant aspects of integrity. The Theme Building would remain physically intact in its original location and its unique architectural design would remain discernible and continue to convey its historical significance despite being partially obscured by the proposed new construction. For these reasons, the Theme Building would remain eligible for listing in the National Register after implementation of LAMP. Section 8 of this report identifies the mitigation measures that LAWA proposes to implement to minimize the adverse effects to the Theme Building's setting.

⁴² National Register Bulletin 15, How to Apply the National Register Criteria for Evaluation, U.S Department of the Interior, National Park Service 1995. (46)

⁴³ Ibid. (44)

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

Construction of the APM Guideway

East of the CTA, the APM guideway would generally align with the Century Boulevard approach east of Sepulveda Boulevard, then turn north from Century Boulevard mid-block between Vicksburg Avenue and Avion Boulevard traversing an area currently used for surface parking. The APM guideway would continue north crossing West 98th Street where it would traverse an area currently used as a surface parking lot and turn right at 96th Street and continue east along the 96th Street alignment. The APM guideway would continue east past Bellanca Avenue, traversing parcels currently occupied by industrial uses, a former railroad right-of-way and a natural gas station. The guideway would terminate at the CONRAC.

Only one property identified as a potential historical resource is located on or immediately adjacent to the APM guideway. This is the 1964 McCulloch Building at 6151 W. Century Boulevard. The APM guideway would approach the McCulloch building from the south as it turns north from Century Boulevard to connect to the ITF West. The APM guideway north-south alignment would traverse east of the McCulloch building on an area currently used for surface parking.

Located approximately 100 feet from the McCulloch Building at its closest point, construction of the APM guideway would not materially alter the McCulloch Building. The McCulloch Building would remain in its original location and all of its character-defining architectural features would remain intact. The APM guideway would traverse the McCulloch building to the south and east partially obscuring views of the south and east facades. At 12 stories, however, the McCulloch Building would be over twice the height of the APM guideway and all of its public-facing facades would remain discernible despite partial blocking of views by the APM guideway. Moreover, the simple rectangular mass and regular façade pattern of window bands and spandrels characteristic of the McCulloch Building would remain discernible. After construction of the APM guideway, the McCulloch Building would remain intact and continue to convey its historic significance. Construction of the APM guideway would not result in an adverse effect to the McCulloch Building.

Construction of the ITF West

The ITF West is planned to be constructed in the approximate location of today's City Bus Center at LAX Lot C on the north side of W. 96th Street between Airport Boulevard and Vicksburg Avenue. This area contains surface parking lots on both sides of W. 96th Street. Investigation of the ITF West Development Area did not reveal any

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

buildings, structures, objects or sites that are eligible for listing as historic resources. No historic resources were identified immediately adjacent to or in the immediate vicinity of the ITF West development area.

Because there are no historical resources located in or immediately adjacent to the ITF West development area, construction of the ITF West would not result in significant impacts to historic resources. Construction of the ITF West would not damage, demolish, relocate, convert, rehabilitate or reduce the integrity or significance of any historic resources. Construction of the ITF West would not result in any adverse effect to a historic resource.

Construction of the APM Maintenance and Storage Facility

The APM Maintenance and Storage Facility would be constructed on existing LAX property located at the northeast corner of Airport Boulevard and W. 96th Street. Prior to LAX ownership, the property was the residential neighborhood of Belford Square,⁴⁴ containing single-family homes and two-story multi-family residential buildings. Although the street pattern of the residential area remains, the parcels have been cleared of buildings and are currently vacant lots. No historic resources were identified immediately adjacent to or in the immediate vicinity of the APM Maintenance and Storage Facility development area.

Because there are no historic resources located in or immediately adjacent to the APM Maintenance and Storage Facility development area, construction of the APM Maintenance and Storage Facility would not result in significant impacts to historical resources. Construction of the APM Maintenance and Storage Facility would not damage, demolish, relocate, convert, rehabilitate or reduce the integrity or significance of any historic resources located on the APM Maintenance and Storage Facility site or in the vicinity. Construction of the APM Maintenance and Storage Facility would not result in any adverse effects to a historical resource.

Construction of the ITF East and CONRAC

The ITF East and CONRAC facilities would be constructed on land bounded by W. Arbor Vitae Street to the north, W. Century Boulevard to the south, La Cienega Boulevard to the east, and Aviation Boulevard to the West. Construction of the ITF East and CONRAC would require the demolition of all remaining buildings and

⁴⁴ Weikel, Dan, "Near LAX a once thriving community now stuck in economic limbo," Los Angeles Times, October 27, 2013.

structures of the Manchester Square subdivision. No historic resources were identified immediately adjacent to or in the immediate vicinity of the ITF East and CONRAC development areas.

Because there are no historic resources located in or immediately adjacent to the ITF East and CONRAC development areas, construction of the ITF East and CONRAC would not result in significant impacts to historical resources. Construction of the ITF East and CONRAC would not damage, demolish, relocate, convert, rehabilitate or reduce the integrity or significance of any historic resources located on the ITF East and CONRAC sites or in the vicinity. Construction of the ITF East and CONRAC would not result in any adverse effects to a historical resource.

7.4 Potential Adverse Effects from Proposed Roadway Improvements and New Roadways

The Project would include improvements to existing roadways and the construction of new roadways designed to improve access to the CTA from the freeway and provide access to the proposed ITFs and CONRAC. The improvements to existing roadways would largely remain within the public right-of-way and would not materially affect any identified historical resources.

A new roadway would be constructed immediately to the south and east of the 1964 McCulloch Building at 6151 W. Century Boulevard. Construction of the new roadway would not materially alter the McCulloch Building. The McCulloch Building would remain in its original location and all of its character-defining architectural features would remain intact. After construction of the new roadway, the McCulloch Building would remain intact and continue to convey its historic significance. Construction of the new roadway would not result in an adverse effect to the McCulloch Building.

Improvements to W. 96th Street would be constructed immediately to the north of 9700 S. Sepulveda Boulevard (the former aircraft school). Construction of the improved roadway would not materially alter the former aircraft school. The former aircraft school would remain in its original location and all of its character-defining architectural features would remain intact. After construction of the improved roadway, the former aircraft school would remain intact and continue to convey its historic significance. Construction of the improved roadway would not result in an adverse effect to the former aircraft school.

7.5 Summary of Findings

Analysis of potential effects using Section 106 criteria reveals that LAMP would include new construction immediately adjacent to the Theme Building, which has been determined eligible for listing in the National Register under Criterion C by consensus through Section 106 evaluation. The proposed construction of the APM and elevated

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

walkway associated with LAMP would affect the integrity of the Theme Building by altering its setting. Alteration of the Theme Building setting would partially obscure features of the Theme Building's architectural design as well as its original function from certain perspectives. For these reasons, the construction of the APM guideway and the elevated walkway would result in an adverse effect to the Theme Building as defined by Section 106.

Notwithstanding the adverse effect due to alterations of the setting, the Theme Building would not be physically altered by construction of the APM guideway or the elevated passenger walkway. All of the Theme Building's significant architectural features, including the symmetrically composed circular plan; crossed parabolic arches; observation deck with cantilevered, circular restaurant suspended below; and perforated concrete screen wall; would remain. Because construction of the APM guideway and elevated walkway would not result in any physical alteration of the of the Theme Building, it would retain integrity of *location, design, materials, workmanship* and *feeling*, or five of the six relevant aspects of integrity. The Theme Building would remain physically intact in its original location and its unique architectural design would remain discernible and continue to convey its historical significance despite being partially obscured by the proposed new construction. For these reasons, the Theme Building would remain eligible for listing in the National Register after implementation of LAMP. Section 8 of this report identifies the mitigation measures that LAWA proposes to implement to minimize the adverse effects to the Theme Building's setting.

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

Table 1: Properties Located in the APE that are Eligible for the National Register

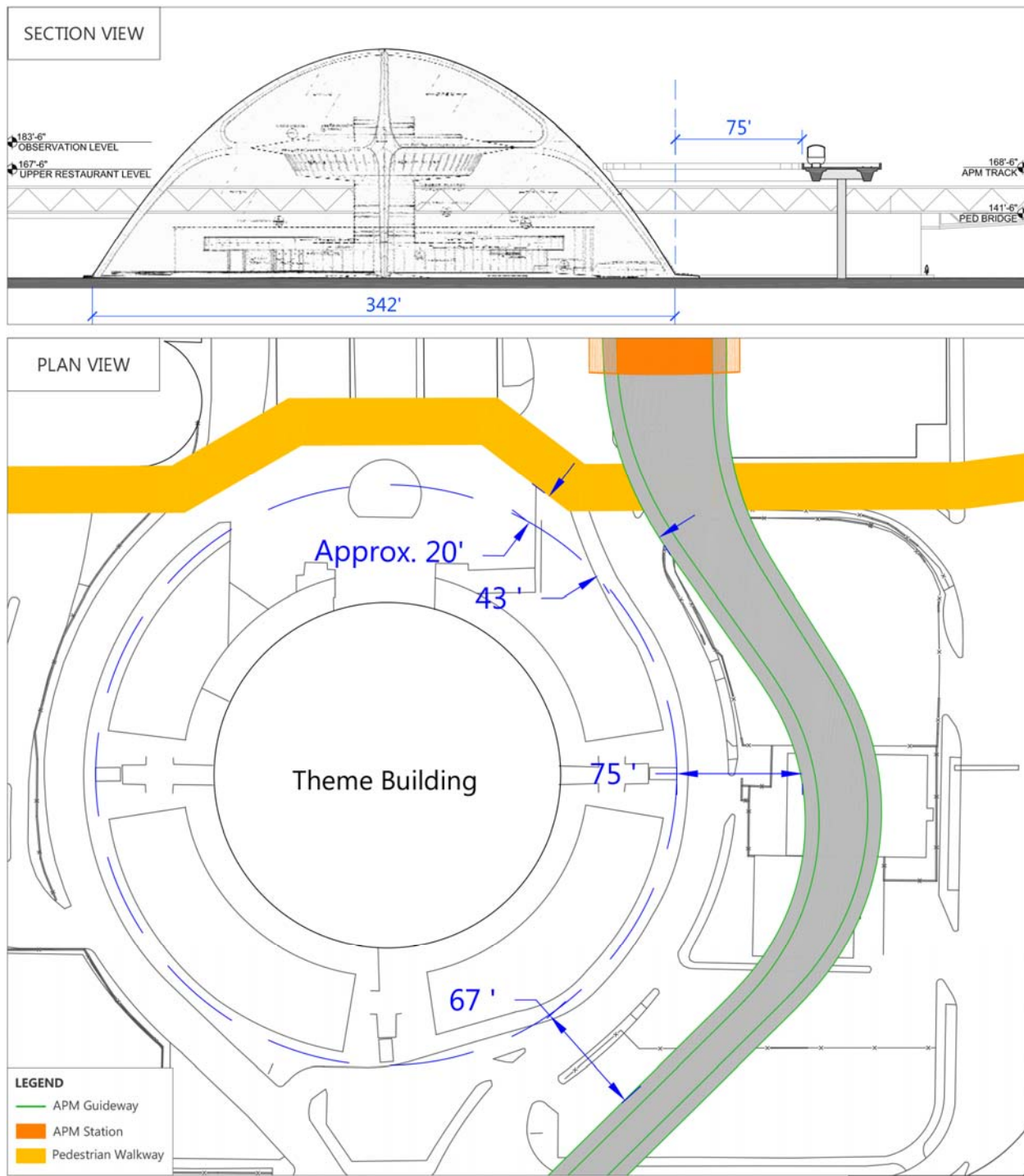
APN	ADDRESS NO.	STREET	DATE	NAME	STATUS	EFFECT OF UNDERTAKING
4129027902	201	World Way	1962	LAX Theme Building	Determined eligible for listing in the NR by consensus. Listed in CR and designated as Los Angeles HCM No. 570. Significant as an excellent example of Expressionistic architecture designed by master architects, Pereira and Luckman.	Adverse Effect to Setting
4124026900	9700	Sepulveda Blvd S	1941-1945	Aircraft Training School	Eligible for the NR, CR, and local listing through survey evaluation. Significant for its association post-World War II growth of the aerospace industry in Southern California.	No Adverse Effect
4124030029	6151	Century Blvd W	1963	McCulloch Building	Eligible for the NR, CR and local listing through survey evaluation. Significant as an excellent example of Corporate International architecture designed by master architects Welton Beckett & Associates.	No Adverse Effect
4124030040	5959	Century Blvd W	1966	Tishman Airport Center Building	Eligible for the NR, CR and local listing through survey evaluation. Significant as an excellent example of Corporate International architecture designed by master architects Welton Beckett & Associates.	No Adverse Effect
4124030042	9841	Airport Blvd N	1968	Airport Century Building	Eligible for the NR, CR and local listing through survey evaluation. Significant as an excellent example of Corporate International architecture designed by master architects Welton Beckett & Associates	No Adverse Effect
N/A	N/A	98 th St W	1940	Air Raid Siren No. 150	Eligible for the NR, CR and local listing through survey evaluation for its association with World War II and Cold War military infrastructure.	No Adverse Effect

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

Figure 3: Proposed LAMP Components Adjacent to Theme Building



LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

Figure 4: Site Photographs



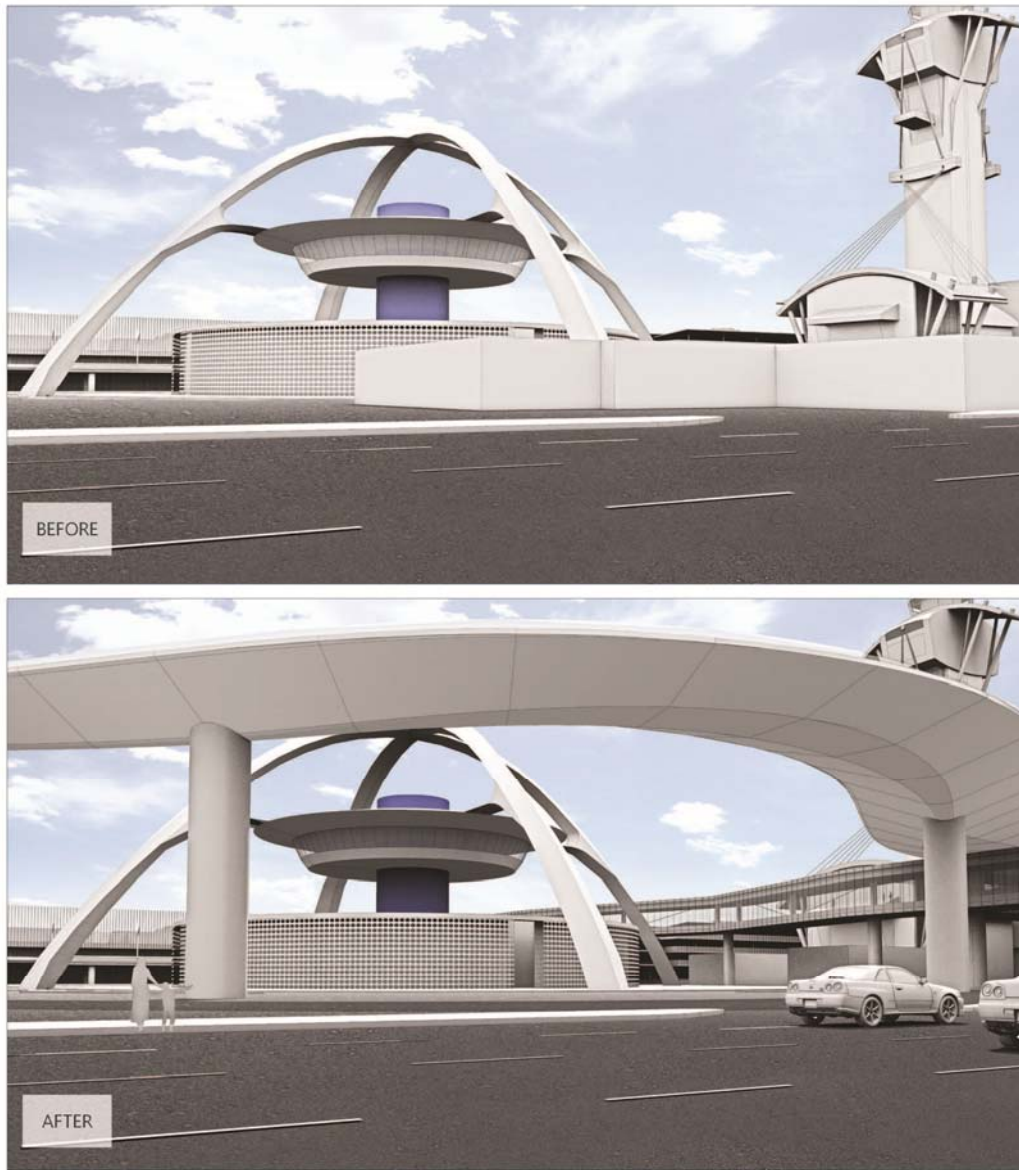
LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

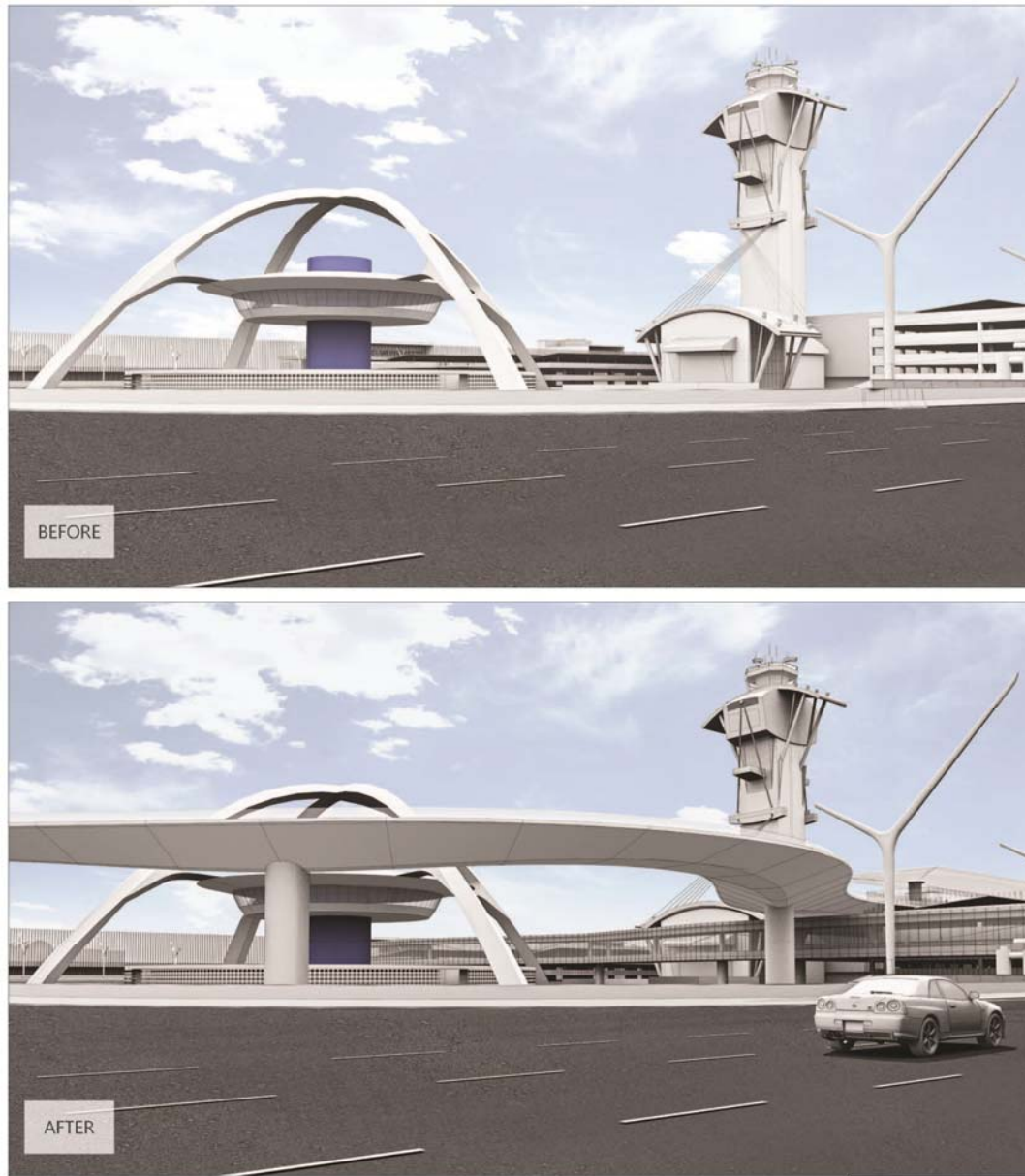
HISTORIC RESOURCES GROUP

Figure 5: Simulated View of Theme Building from Terminal 1 Arrivals Level



LAX Landside Access Modernization Program
Section 106 Assessment
February 2017

HISTORIC RESOURCES GROUP



LAX Landside Access Modernization Program
Section 106 Assessment
February 2017

HISTORIC RESOURCES GROUP

The proposed LAMP project would affect *setting* of the National Register-eligible LAX Theme Building resulting in an adverse effect to the Theme Building. The following measures to protect the Theme Building, and ensure its continued preservation are recommended to substantially reduce adverse effects associated with LAMP.

1. Prior to the issuance of a building permit for the APM, a Historic Structures Report (HSR) shall be prepared for the Theme Building to guide its preservation and future use. The format and content of the report shall comply with *Preservation Brief 43: The Preparation and Use of Historic Structure Reports*.
2. The Theme Building shall be rehabilitated for a new use that maintains controlled public access to the building's atrium, lobby and former restaurant space. Potential new uses for the Theme Building include, but are not limited to, a restaurant, the public/educational exhibits, or a meeting/event space.
3. The Theme Building shall be rehabilitated in compliance with the Secretary of the Interior's Standards for Rehabilitation and the Guidelines for Rehabilitating Historic Buildings. The general specifications for the rehabilitation project shall include specifications for the treatment of character-defining features as identified in the HSR. The specifications shall include, but are not limited to, sections for the treatment of historic fabric; quality control; substitution procedures; selective demolition; cutting and patching; removal and storage of historic materials; protection and cleaning; repair options; and potential replacement of severely deteriorated features. Materials conservation plans shall be incorporated into the plans and specifications as necessary.
4. The remaining space around the Theme Building, bounded on the north and south by World Way and on the east by East Way, shall be preserved and retained as open space to recall the Theme Building's historic setting. An interpretive program will be created that may include photographic exhibits, audio/visual presentations, and interactive displays to chronicle the history and design of the Theme Building and its context within the larger airport plan, the architects, and their historic significance. This exhibit shall be located in the open space immediately surrounding the Theme Building or within the Theme Building and shall be made accessible to the public.
5. The rehabilitation project team shall include a qualified historic architect who meets the Secretary of the Interior's Professional Qualifications Standards for

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

historic architecture. The historic architect shall work with the project team to review project alternatives and the impacts of the proposed rehabilitation, and shall monitor construction for compliance with the recommendations in the HSR.

6. LAWA shall apply the following guidelines to the final design of the APM guideway and passenger walkway adjacent to the Theme Building to reduce visual impacts:
 - Minimize the number of columns and structures surrounding the Theme Building by maximizing the column support span in this area.
 - Minimize the bulk of the APM guideway structure to preserve openness around the Theme Building to the extent feasible.
 - Design the APM and passenger walkway structures around the Theme Building to complement the existing Theme Building structure and better harmonize the Project elements and the Theme Building.
 - Implement landscape elements in the vicinity of the Theme Building that enhance passenger and visitor's visual focus on the Theme Building (i.e., make the Theme Building the visual focus of this area, not the proposed Project elements).

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

California Public Resources Code (Sections 21000-21177)

California Code of Regulations, (Title 14, Division 6, Chapter 3, Sections 15000-15387).

California Office of Historic Preservation Technical Assistance Series #6 California Register and National Register: A Comparison (for purposes of determining eligibility for the California Register), State of California Office of Historic Preservation, Department of Parks and Recreation

City of Los Angeles Office of Historic Resources website,
<http://www.preservation.lacity.org/monuments>

Code of Federal Regulations, (Title 36, Part 60)

California Environmental Quality Act (CEQA) Statute and Guidelines, 2014 California Association of Environmental Professionals, www.califaep.org

City of Los Angeles Office of Historic Resources website,
<http://www.preservation.lacity.org/monuments>

Delta Flight Museum website, <https://www.deltamuseum.org>

Di Massa, Cara Mia, "Last School Year on the Flight Path," *Los Angeles Times*, June 13, 2004.

Downs, Tom. "An Introduction to Airport Design." *dwell*, May 13, 2009 Accessed February 11, 2015. <http://www.dwell.com/design-101/article/introduction-airport-design>.

EGGEBEEN, Janna. "Airport Age: Architecture and Modernity in America." Dissertation, The City University of New York, 2007.

Friedman, Paul David, *Fear of Flying: The Development of Los Angeles International Airport and the Rise of Public Protest Over Jet Aircraft Noise*, Master of Arts in History Thesis, University of California, Santa Barbara, October 1978.

Gordon, Alastair. Naked Airport. A Cultural History of the World's Most Revolutionary Structure, Metropolitan Books, Harry Holt and Company LLC, New York City, 2004.

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

Hall, Peyton, and John LoCascio. "Peer Review: Historic Resource Assessment Report, Continental Airlines Facilities." October 7, 2014.

"Headquarters Unit Planned by Airline," *Los Angeles Times*, March 10, 1963
Historic Resources Inventory, California State Office of Historic Preservation,
August 2011.

Los Angeles Conservancy and Los Angeles Conservancy Modern Committee. *The Sixties Turn 50: It's a Mod, Mod, Mod, Mod City*. Los Angeles: Los Angeles Conservancy, 2009.

Los Angeles County Building Permits

Los Angeles International Airport. "LAX Master Plan Draft EIS/EIR."

Los Angeles International Airport. "LAX Master Plan Final EIS/EIR."

Los Angeles International Airport. "LAX Specific Plan Amendment Study: Draft EIR." (July 2012).

Los Angeles Unified School District Draft Historic Context Statement 1870-1969, prepared by Sapphos Environmental, Inc. for the Los Angeles Unified School District Office of Health and Safety, December 2013.

Los Angeles Unified School District Historic Resources Survey Report, prepared by Sapphos Environmental, Inc. for the Los Angeles Unified School District Office of Health and Safety, June 2014.

Moran, Tom. Los Angeles International Airport. From Lindbergh's Landing Strip to World Air Center, CCA Publications, Inc. Canoga Park, California, 1993.

National Register Bulletin 16A. How to Complete the National Register Registration Form. Washington D.C.: National Park Service, U.S. Department of the Interior, 1997.

National Register Bulletin Guidelines for Evaluating and Documenting Historic Aviation Properties, U.S. Department of the Interior, National Park Service, 1998.

Pacific Coast Architecture Database. <http://pcad.lib.washington.edu/>

PCR Services Corporation. "Appendix: LAX Master Plan EIS/EIR: I. Section 106 Report," January 2001.

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

PCR. "Appendix E: LAX Specific Plan Amendment Study: Cultural Resources." July 2012.

59

Pereira & Luckman. *Master Plan for Los Angeles International Airport*, March 1953.

Pereira & Luckman, Welton Beckett & Associates, Paul R. Williams. *Los Angeles International Airport Development Report*, January 1957.

Sapphos Environmental, Inc. "LAX Midfield Satellite Concourse Project: Cultural Resources Technical Report." (March 5, 2013).

Sapphos Environmental, Inc. "Los Angeles International Airport Proposed Runway 6R-24L Runway Safety Area Improvements Project: Cultural Resources Technical Report," December 15, 2014.

Sapphos Environmental, Inc. "Proposed Runway 6L-24R and Runway 6R-24L Safety Area and Associated Improvements Project: Cultural Resources Technical Report," January 23, 2014.

Schwartz, Vanessa R. "LAX: Designing for the Jet Age." In Overdrive: L.A. Constructs the Future, 1940-1990, edited by Wim De Wit and Christopher James Alexander, 162-83. Los Angeles: Getty Research Institute, 2013.

Secretary of the Interior's Standards for Rehabilitation.
<http://www.cr.nps.gov/hps/tps/tax/rhb/stand.htm>, 18 September 2008.

Section 106 Handbook: How to Assess the Effects of FAA Actions on Historic Properties under Section 106 of the National Historic Preservation Act, United States Department of Transportation Federal Aviation Administration, June 2015.

Section 106 Regulations (36 CFR Part 800), amended August 2004. Advisory Council on Historic Preservation

Smithsonian National Air and Space Museum. "America By Air." Accessed February 10, 2015. <https://airandspace.si.edu/exhibitions/america-by-air/online/heyday/heyday13.cfm>.

Southern California Regional Airport Study, Stanford Research Institute, South Pasadena, California, March 1964.

Szurvov, Geza. The American Airport, MBI Publishing Company, St. Paul, Minnesota, 2003.

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

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“Training School Slated to be Built for Airline,” *Los Angeles Times*, January 13 1957 (G1)

United States Department of Transportation Federal Aviation Administration, *Order 1050.1F Environmental Impacts Policies and Procedures*, Effective Date July 16, 2015

URS Corporation. "Cultural Resources Evaluation Report: Proposed Runway 7L/25R Runway Safety Area (RSA) and Associated Improvements Project," September 2012.

“WAL Continues to Grow With L.A.” *Los Angeles Times*, September 24, 1961

Weikel, Dan, “Near LAX a once thriving community now stuck in economic limbo,” *Los Angeles Times*, October 27, 2013. Accessed online on May 27, 2015.
<http://www.latimes.com/local/la-me-manchester-square-20131028-story.html#page=1>

William Pereira, James Steele editor. University of Southern California, Architectural Guild Press, 2002.

Wuellner, Margarita J., and Amanda Kainer. "Historic Resources Assessment Report: Continental Airlines Facilities, 7300 Maintenance Road (APN: 4129-026-903) and 7300 World Way West (APN: 4129-026-903) Los Angeles, Los Angeles County, California," September 2013.

Young, William H., and Nancy K. Young. *The 1950s*. Westport, CT: Greenwood, 2004.

ZIMAS, <http://zimas.lacity.org/>

Other Media

Jon Proctor Personal History Website: <http://jonproctor.net/lax-through-the-years/>

LAX Landside Access Modernization Program *Section 106 Assessment* **February 2017**

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Mines Field c. 1930
Los Angeles Public Library Collection

LAX Landside Access Modernization Program
Section 106 Assessment
February 2017

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Los Angeles International Airport Intermediate Facilities c. 1955

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

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Central Terminal Area Under Construction 1960
Los Angeles Public Library

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

HISTORIC RESOURCES GROUP



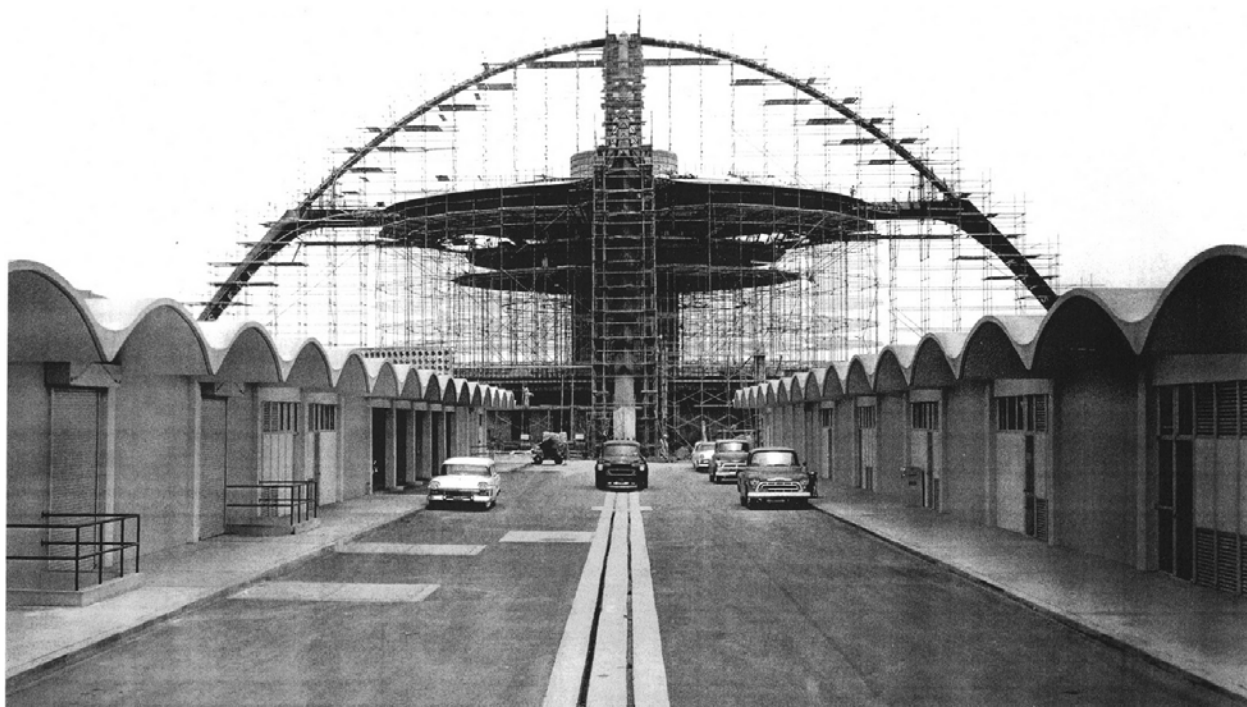
Central Terminal Completed 1961
Los Angeles Water & Power Collection

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

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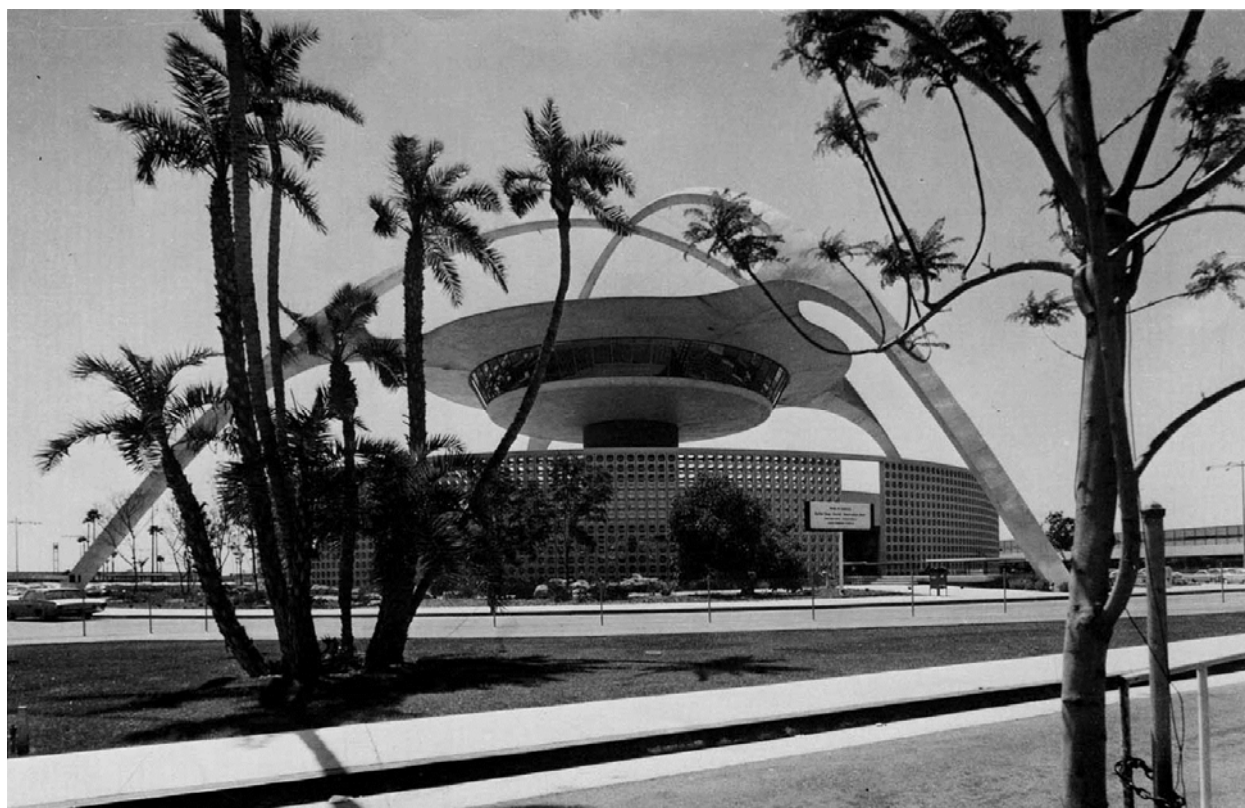
Theme Building and Garages Construction c.1961
Los Angeles Water & Power Collection

LAX Landside Access Modernization Program

Section 106 Assessment

February 2017

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Theme Building c.1970

LAX Landside Access Modernization Program
Section 106 Assessment
February 2017

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LAX Theme Building



**9700 S. Sepulveda Boulevard
(Aircraft Training School)**



**6151 W. Century Boulevard
(McCulloch Building)**



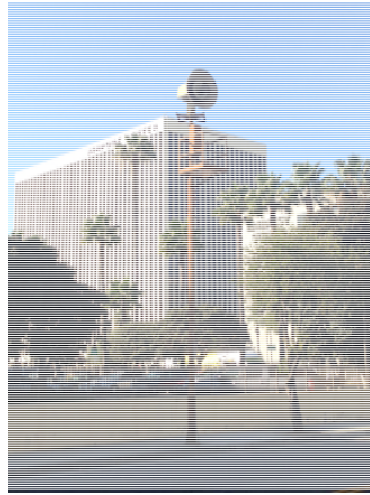
**5959 W. Century Boulevard
(Tishman Airport Center)**

LAX Landside Access Modernization Program
Section 106 Assessment
February 2017

HISTORIC RESOURCES GROUP



**9841 N. Airport Boulevard
(Airport Century Building)**



**Air Raid Siren No. 150
(South side of W. 98th Street east of Airport Blvd)**

LAX Landside Access Modernization Program
Section 106 Assessment
February 2017

HISTORIC RESOURCES GROUP



1961 Airport Traffic Control Tower



**9800 S. Sepulveda Boulevard
(United Savings and Loan)**



**5855 W. Century Boulevard
(Airport Marriott Hotel)**



Terminal 6 Sign Tower

LAX Landside Access Modernization Program

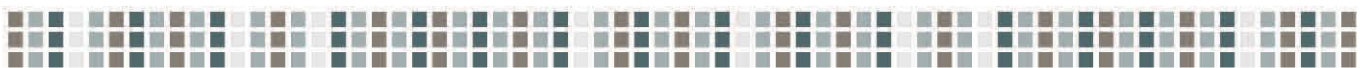
Section 106 Assessment

February 2017

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Appendix H.2

SHPO Coordination Letter





U.S Department
of Transportation
**Federal Aviation
Administration**

Western-Pacific Region
Airports Division
Los Angeles Airports District Office

Federal Aviation Administration
P.O. Box 92007
Los Angeles, CA 90009-2007

January 26, 2017

Ms. Julianne Polanco
State of California
State Historic Preservation Officer
Office of Historic Preservation
1725 23rd Street, Suite 100
Sacramento, California 95816

Attention: Mr. Tristan Tozer

Dear Ms. Polanco:

**Proposed Landside Access Modernization Program
Los Angeles International Airport, Los Angeles, Los Angeles County, California
Section 106 Coordination**

The City of Los Angeles, through its Aviation Department of Los Angeles World Airports (LAWA) and the Federal Aviation Administration (FAA) are preparing Federal environmental documentation to comply with the *National Environmental Policy Act of 1969* (NEPA) for proposed improvements associated with the Landside Access Modernization Program (LAMP) at Los Angeles International Airport (LAX). The Federal action is the approval of LAWA's Airport Layout Plan and potential funding for the proposed undertaking.

LAWA is pursuing the LAMP to address automobile congestion in and around the Central Terminal Area (CTA) at LAX. The bulk of the proposed LAMP occurs on existing airport property.

The proposed improvements that will be analyzed in this environmental documentation include:

- Construction of an Airport People Mover (APM) system with six APM stations connecting the CTA via an above ground fixed guide way to new proposed buildings that will provide ground access to the airport. ;
- Passenger walkway systems connecting the APM stations to passenger terminals, parking garages, and ground transportation facilities;
- Modifications to existing passenger terminals and parking garages to support the APM walkway system connections, including vertical circulation cores to the arrival, departure, and concourse levels at the terminals;
- An APM maintenance and storage facility (MSF); and

- APM power substations.
- A Consolidated Rental Car facility (CONRAC) designed to meet the needs of car rental agencies serving LAX with access to the CTA via the APM;
- Two Intermodal Transportation Facilities (ITF) providing parking and pick-up and drop-off areas outside the CTA for private vehicles and commercial shuttles;
- Roadway improvements and project design features designed to improve access to the proposed facilities and the CTA and reduce traffic congestion in neighboring communities;
- Security features, including security fencing, surveillance cameras, security lighting, and emergency phones/call boxes;
- Fire safety features in compliance with fire and building code requirements including fire hydrants, fire sprinklers, and fire extinguishers;
- Utilities infrastructure, both new and modified, as needed, to support the proposed undertaking;
- Land acquisition; and
- Various enabling projects to allow construction of the Proposed Action, including utility relocation and demolition of certain existing facilities, some of which would be reconstructed.

Description of the Direct Effects APE for the proposed undertaking: LAMP Project. The enclosed *Figure 1: Area of Potential Effect* shows the discontinuous Physical Disturbance Area for the proposed LAMP project. The APE occupies approximately 775 acres and is split into three general regions: Central Terminal Area, East of the Central Terminal Area, and Aviation Boulevard/Imperial Highway Area.

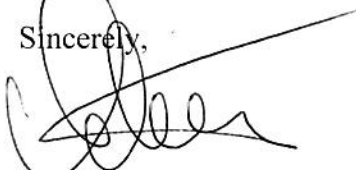
- The Central Terminal Area (CTA) includes areas west of Sepulveda Boulevard, focused around World Way and the passenger terminals at LAX.
- East of the Central Terminal Area is generally bounded by W. Century Boulevard on the south, Interstate 405 (I-405) on the east, West Arbor Vitae Street/LAX property boundary on the north, and Sepulveda Boulevard on the west.
- The Aviation Boulevard/Imperial Highway Area is bounded by Imperial Highway on the south, W. 111th Street on the north, Aviation Boulevard on the west, and Hindry Avenue on the east, but also includes roadway improvements along the I-405 and La Cienega Boulevard. The APE comprises various airport, regional commercial, general commercial, and medium-density residential land uses. The APE is primarily developed and heavily urbanized, with some vacant areas associated with the Belford and Manchester Square Areas. The APE also includes the construction staging areas described above that are not contiguous with the portion of the APE for the proposed LAMP construction work.

FAA used the boundaries of the entire area that would have physical disturbance to delineate the APE. FAA determined these boundaries through consultation with LAWA on the extent of the proposed LAMP project. FAA will include this information in the environmental documentation for the proposed project. FAA has identified a discontiguous APE for the proposed undertaking. LAWA has advised FAA that it plans to use its existing construction staging areas primarily within the proposed project area. LAWA also plans to use land east of the South Runway Complex including an area, formerly known as "Continental City," at the north east corner of Aviation Boulevard and Imperial Highway for construction staging. A portion of this area was excavated in the early to mid-1980s to a depth of at least 30-feet by the previous owner in anticipation of construction of an office building complex. To ensure complete coordination, the APE includes both of these existing disturbed staging areas.

FAA is seeking comments from your office on the acceptability of the APE's under Title 36, Code of Federal Regulations Section 800.4 *Identification of Historic Properties*. Pursuant to Title 36, Code of Federal Regulations, Section 800.4, the FAA is seeking concurrence with the APE for the proposed undertaking from the California State Historic Preservation Office.

If you have any further questions about this matter, please call me at 310/725-3615.

Sincerely,

A handwritten signature in black ink, appearing to read 'Victor Globa', with a large, sweeping flourish extending from the end of the signature.

Victor Globa
Environmental Protection Specialist

Enclosure

Cc: E. Quintanilla – LAWA

[Preliminary Draft for Discussion Purposes Only]

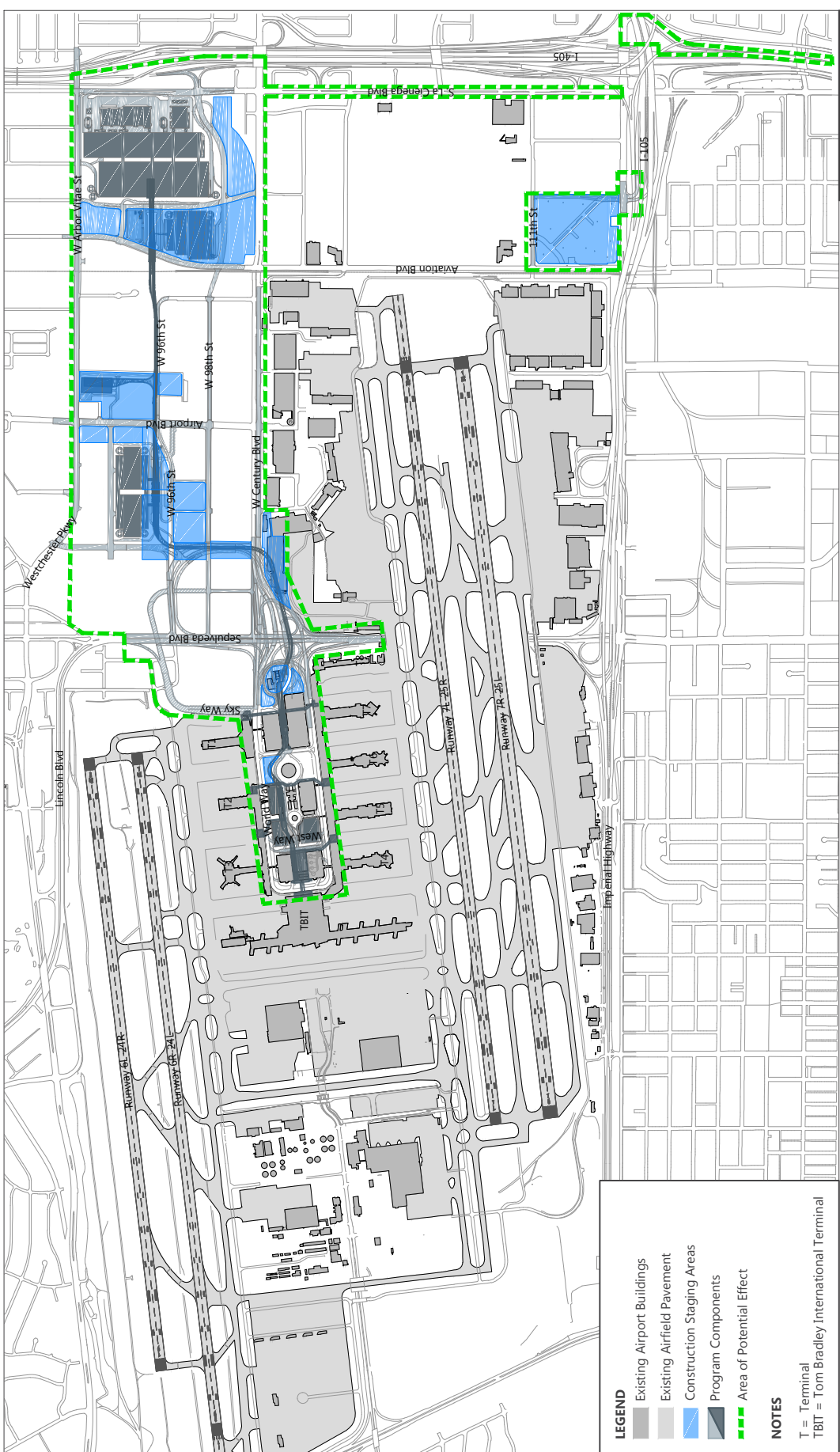


FIGURE 1

Area of Potential Effect



Drawing: XLAX\LAMP\05 - AutoCAD\LAMP_EA_Area of Potential Effect.dwg; Layout: Figure 1 Plotted: Jan 25, 2017, 03:45PM

LAX Landside Access Modernization Program
Draft Environmental Assessment

NOTE: Improvements depicted are conceptual only and do not represent engineered design.
SOURCE: HNTB Corp., Los Angeles International Airport Layout Plan, July 2012; MapLAX, July 2016.
PREPARED BY: Ricondo & Associates, Inc., January 2017.

- LEGEND**
- Existing Airport Buildings
 - Existing Airfield Pavement
 - Construction Staging Areas
 - Program Components
 - Area of Potential Effect
- NOTES**
- T = Terminal
 - TBIT = Tom Bradley International Terminal

**OFFICE OF HISTORIC PRESERVATION
DEPARTMENT OF PARKS AND RECREATION**

1725 23rd Street, Suite 100
SACRAMENTO, CA 95816-7100
(916) 445-7000 Fax: (916) 445-7053
calshpo@parks.ca.gov
www.ohp.parks.ca.gov

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FEB 22 2017

LAX-ADO



February 13, 2017

Refer To: FAA_2017_0127_001

Victor Globa
Environmental Protection Specialist
Federal Aviation Administration
Western Pacific Region, Airports Division
P.O. Box 92007
Los Angeles, CA 90009-2007

RE: Proposed Landside Access Modernization Program, Los Angeles International Airport, Los Angeles, California

Dear Mr. Globa:

The Federal Aviation Administration is consulting with the State Historic Preservation Officer (SHPO). The FAA does so in an effort to comply with Section 106 of the National Historic Preservation Act of 1966 and its implementing regulations, as amended, found at 36 CFR Part 800. The FAA is requesting comments on the Area of Potential Effects for the above-referenced undertaking.

The City of Los Angeles, through the Aviation Department of Los Angeles World Airports, is planning to implement the Landside Access Modernization Program (LAMP) at Los Angeles International Airport (LAX). Project components include the construction of a people mover rail system, passenger walkway systems, and maintenance, storage, and car rental facilities. Land acquisition, airport security improvements, utility relocation, and demolition of various structures are also proposed as part of the LAMP.

In an effort to identify historic properties that may be affected in implementing the LAMP, the FAA has established the project's Area of Potential Effects (APE), as per 36 CFR 800.4 (a)(1). The APE for this undertaking is described as a discontinuous, 775- acre area split into three general regions: Central Terminal Area, East of Central Terminal Area, and the Aviation Boulevard/Imperial Highway Area. The Central Terminal Area includes areas west of Sepulveda Boulevard, focused around World Way and the passenger terminals at LAX. East of Central Terminal Area is bounded by W. Century Boulevard on the south, Interstate 405 on the east, West Arbor Vitae Street/LAX property boundary on the north, and Sepulveda Boulevard to the west. The Aviation Boulevard/Imperial Highway Area is bounded by Imperial Highway on the south, W. 111th Street to the north, Aviation Boulevard to the west, and Hindry Avenue to the east; the APE also includes roadway improvements along I-405 and La Cienega Boulevard.

February 13, 2017

Page 2 of 2

Having reviewed the FAA's submittal, SHPO is of the opinion the APE, as described in your letter and as depicted on the accompanying map, appears adequate to account for direct and indirect effects to historic properties. SHPO understands the FAA will continue to consult once identification efforts within the APE are carried out.

If you require further information, please contact State Historian Tristan Tozer at (916) 445-7027 or at Tristan.Tozer@parks.ca.gov.

Sincerely,

A handwritten signature in black ink, consisting of a stylized 'J' followed by a horizontal line.

Julianne Polanco
State Historic Preservation Officer



U.S Department
of Transportation
**Federal Aviation
Administration**

Western-Pacific Region
Airports Division

Federal Aviation Administration
P.O. Box 92007
Los Angeles, CA 90009-2007

March 20, 2017

Ms. Julianne Polanco
State of California
State Historic Preservation Officer
Office of Historic Preservation
1725 23rd Street, Suite 100
Sacramento, California 95816

Attention: Mr. Tristan Tozer

Dear Ms. Polanco:

**Proposed Landside Access Modernization Program
Los Angeles International Airport,
Los Angeles, Los Angeles County, California
Section 106 Coordination
Section 106 Coordination No.: FAA_2017_0127_001**

The City of Los Angeles, through its Airport Department – Los Angeles World Airports (LAWA) and the Federal Aviation Administration (FAA) are preparing federal environmental documentation for the proposed undertaking of a Landside Access Modernization Program (LAMP) at Los Angeles International Airport (LAX). LAWA is pursuing the LAMP to address automobile congestion in and around the Central Terminal Area (CTA) at LAX. The bulk of the proposed LAMP occurs on existing airport property.

Your office previously concurred with FAA's Area of Potential Effects (APE) for the proposed undertaking for the proposed LAMP project by letter dated February 13, 2017. A drawing depicting the APE is shown on **Figure 1** in the enclosed copy of the *LAX Landside Access Modernization Program, Section 106 Assessment*, dated February 2017.

FAA is providing the following background information to assist you in reviewing FAA's determinations of eligibility and findings of effect related to the proposed undertaking.

1. Background Information.

LAX is the largest commercial service airport in southern California, and the third busiest in the United States, and seventh busiest in the world with more than 74.9 million

passengers in 2015. On a daily basis up to 6,000 vehicles enter LAX during peak periods resulting in mode conflicts between private, commercial and service vehicles; insufficient curb space and limited roadways due to traffic saturation. LAWA is pursuing the LAMP to address automobile congestion in and around the Central Terminal Area (CTA) at LAX.

The proposed improvements that will be analyzed in this environmental documentation include:

- Construction of an Automated People Mover (APM) system with six APM stations connecting the CTA via an above ground fixed guide way to new proposed buildings that will provide ground access to the airport;
- Passenger walkway systems connecting the APM stations to passenger terminals, parking garages, and ground transportation facilities;
- Modifications to existing passenger terminals and parking garages to support the APM walkway system connections, including vertical circulation cores to the arrival, departure, and concourse levels at the terminals;
- An APM maintenance and storage facility (MSF); and
- APM power substations.
- A Consolidated Rental Car facility (CONRAC) designed to meet the needs of car rental agencies serving LAX with access to the CTA via the APM;
- Two Intermodal Transportation Facilities (ITF) providing parking and pick-up and drop-off areas outside the CTA for private vehicles and commercial shuttles;
- Roadway improvements and project design features designed to improve access to the proposed facilities and the CTA and reduce traffic congestion in neighboring communities;
- Security features, including security fencing, surveillance cameras, security lighting, and emergency phones/call boxes, to reduce demands on the Los Angeles World Airports Police Department (LAWAPD);
- Fire safety features in compliance with fire and building code requirements including fire hydrants, fire sprinklers, and fire extinguishers;
- Utilities infrastructure, both new and modified, as needed, to support the proposed undertaking;
- Land acquisition for the APM right-of-way in various locations totaling about 26 acres is identified in the enclosed **Figure 2-47 Properties to be Acquired**; and

- Various enabling projects to allow construction of the Proposed Action, including utility relocation and demolition of certain existing facilities, some of which would be reconstructed.

Depths of disturbance will vary from 50 feet to 120 feet deep throughout the project. Each of the main facilities of the Proposed Action would require pile foundations. It is assumed that both Cast-In-Drilled-Hole (CIDH) piles and driven piles will be used where necessary. CIDH piles involve drilling and removal of soils and construction of a cast-in-place, reinforced concrete pile within the open borehole. Driven piles involve in-place installation of a concrete or steel pile with a pile-driving hammer, and do not involve removal of materials from the ground. Driven pile installations typically generate noise and vibrations. As a result, LAWA will adhere to its Archaeological Treatment Plan and shall retain a Cultural Resource Monitor who will determine if the proposed action is subject to archaeological monitoring.

LAWA intends to use multiple staging areas around the airport as shown on the APE drawing. Each of these sites has been significantly disturbed in the past.

2. Native American Consultation. FAA received a listing of Native American contacts for the proposed undertaking from the State of California Native American Heritage Commission for the proposed LAMP project at LAX. The commission recommended FAA contact the Gabrielino Band of Mission Indians – Kizh Nation, and four different representatives of the Gabrielino-Tongva Tribe.

On November 2, 2016, FAA provided project information about the proposed undertaking and APE for LAMP to the tribal contacts provided by the California Native American Heritage Commission using the U.S. Mail. FAA did not receive any comments.

3. National Register Eligibility Determinations. A cultural resource records search was conducted on December 11, 2014 at the South Central Coastal Information Center (SCCIC), which included a review of all recorded archaeological and historical resources within a half-mile radius of the APE. Results of the records search indicated no archaeological resources have been recorded within the APE and 11 archaeological resources have been previously recorded within a half-mile radius. These resources include both archaeological resources from the prehistoric and historic period. The records search also indicated that more than 15 cultural resource studies have been conducted within the APE. These studies were conducted for various projects across LAX from 1974 to 2005 and encompass approximately 50 percent of the APE.

Historic Resources Group (HRG) LAWA's cultural resources consultant, prepared the enclosed *LAX Landside Access Modernization Program Section 106 Assessment*, dated February 2017. Based on the information contained within the *LAX Landside Access Modernization Program Section 106 Assessment*, the FAA has determined there are five (5) buildings and one (1) structure that are listed or eligible for listing in the National Register of Historic Places (NRHP) for the proposed undertaking. They are as follows:

- **LAX Theme Building** - The Theme Building, completed in 1962, was originally constructed as the geographic centerpiece and visual focus of the CTA. It was designed by Pereira and Luckman in an Expressionistic style to serve as the futuristic symbol of the new “jet age” airport. It is located in the very center of the CTA, at the midpoint of the main east-west axis. It sits on a circular island ringed by a divided access road, Center Way. North of Centerway, is the United States Overseas (USO) building and a surface parking lot. South of Center Way is another surface parking lot, to the east, southwest, and northwest are multi-story automobile parking structures. Immediately west are parallel rows of barrel-roofed service buildings and the FAA’s Airport Traffic Control Tower built in 1996.

In 2001, the Theme Building was determined eligible for listing in the National Register by consensus through a Section 106 evaluation. It was found eligible under Criterion C for architectural significance and was determined to satisfy National Register Criterion Consideration G for exceptional significance in a building less than 50 years old (at the time of evaluation).

- **9700 S. Sepulveda Boulevard (Aircraft School)** - This property contains a handful of modest single-story buildings set within an expanse of surface parking. The largest of the buildings is rectangular in plan with a bow-truss roof and monitor, horizontal wood cladding, and metal-frame, multi-light casement windows. The building is constructed in a vernacular/industrial style. Two smaller buildings with gable roofs and a rectangular masonry building with a flat roof and attached shade canopy are clustered just south of the bow-truss roof building. A rectangular building of more recent vintage is set apart from the others at the northwest corner of the site.

The Historic Resources Report states the property has a long historic association with training in the aircraft trades in service of the rapid post-World War II growth of the aerospace industry in Southern California. This building was built for civil defense training just eight months prior to the Japanese attack of Pearl Harbor. The property is representative of the 20th century development of aircraft and aerospace related industries and services that clustered near the airport beginning with the establishment of Mines Field (the original name for LAX).

Only the rectangular bow-truss building has retained sufficient integrity to convey the historic significance of the property. FAA has determined this property is eligible for inclusion into the NRHP under National Register Criterion A.

- **6151 West Century Boulevard (The McCulloch Building)** - This 12-story office building was designed by Welton Beckett & Associates as part of the Airport Center project. This mid-rise commercial office building was built in 1964. The Historic Resources Report prepared by SurveyLA in 2013 recommended this building as eligible for the National Register. However, this

building is currently being remodeled from an office building to a hotel. Thus, the building has lost integrity. The FAA has determined the McCulloch Building is not eligible for inclusion into the NRHP.

- **5959 West Century Boulevard (Tishman Airport Center Building)** - The 12-story office building was designed by Welton Beckett & Associates as part of the "International Airport Center" commercial development located on the north side of Century Boulevard just east of the CTA. The Airport Center Building was built in 1966; this mid-rise commercial office building was recommended as eligible for the National Register by SurveyLA in 2013. FAA has determined this property is eligible for inclusion into the NRHP under Criterion C.
- **9841 North Airport Boulevard (Airport Century Building)** - The mid-rise office building was built in 1968. It was also designed by the architectural firm of Welton Beckett & Associates as part of the "International Airport Center" commercial development located on the north side of Century Boulevard just east of the CTA. The Airport Century Building was recommended as eligible for the National Register by SurveyLA in 2013. FAA has determined this property is eligible for inclusion into the NRHP under Criterion C.
- **Air Raid Siren No. 150** - Located on the south side of West 98th Street just east of Airport Boulevard, this rotating air raid siren on a freestanding pole was recommended as eligible for the National Register, by SurveyLA in 2013. Erected and installed in 1940, the siren was evaluated as historically significant for its association with World War II and Cold War military infrastructure. FAA has determined this property is eligible for inclusion into the NRHP under Criterion A.

FAA seeks the California SHPO's concurrence with these determinations.

4. Assessment of Adverse Effects on Historic Properties.

The FAA has determined there are five historic properties listed or eligible for listing on the NRHP within the APE. FAA has determined the proposed undertaking will not adversely affect the following properties:

- 9700 S. Sepulveda Boulevard (Aircraft School)
- 6151 West Century Boulevard (The McCulloch Building)
- 5959 West Century Boulevard (Tishman Airport Center Building)
- 9841 North Airport Boulevard (Airport Century Building):
- Air Raid Siren No. 150

The LAMP project: 1) Will not relocate any of the above properties; 2) Will not alter any of the design elements; 3) Will not impact the setting or feeling of the physical

environment; 4) Will not obscure views since most views will be blocked by other buildings; 5) Will not affect workmanship, feeling or association of the identified properties; and 6) The LAMP project does not include the demolition, destruction, damage, physical alteration or relocation of the Theme Building.

However, the FAA has determined that the proposed undertaking will adversely affect the Theme Building for the following reasons:

- Structures associated with the LAMP project would be constructed within the parking lots that surround the Theme Building. These parking areas are an important component of the Theme Building's original setting. However, the construction of the multi-story parking structures, and second level roadways prior to the 1984 Olympics, changes the overall setting of the Theme Building. FAA has determined the Theme Building would not retain integrity of setting after implementation of the LAMP project as described below;
- Although the LAMP project will not directly result in the construction or physical alteration of the Theme Building, proposed LAMP APM guideway and walkway would alter the physical setting of the Theme Building by constructing new structures to the immediate north, east and west. The APM guideway would be approximately 70 feet above ground around the Theme Building supported on concrete columns and would be constructed within 43 feet of the Theme Building at its closest point. The elevated walkway connecting Terminals 2 and 6 would be approximately 20 feet from the Theme Building at its closest point.;
- The proposed APM train cars would be approximately 42 feet long, 9 feet wide and 12 feet in height. The proposed APM trains would include up to 5 cars and would operate 24 hours a day, 7 days per week. During peak periods of operation, operating headway intervals (time between trains at a given station) would be approximately 2 minutes.
- The FAA finds the proposed construction of the APM and walkway associated with LAMP would partially obscure unique features of the Theme Building's architectural design as well as its original function from certain perspectives and would reduce the integrity of the setting of the Theme Building. |

For these reasons, the FAA finds the proposed undertaking will adversely affect the LAX Theme building under 36 Code of Federal Regulations Part 800.4(d)(1).

FAA seeks the California SHPO's concurrence with this finding.

5. Summary of the Views of Consulting Parties and the Public.

Throughout the development of the proposed action LAWA has been actively communicating and working with the Los Angeles Conservancy, City of Los Angeles' Office of Historic Resources and your office. A total of nine meetings were held between

November 2014 and June 2016 with the above identified agencies to get input on the proposed LAMP project.

When the proposed project was introduced to the Los Angeles Conservancy and your staff, the main concerns expressed were with the proximity of the guideway and walkways to the Theme Building and how these new elements would complete or complement the existing buildings in the CTA. In response to those concerns, LAWA walked both organizations through the APM alternatives process, undertook an extensive study of how the LAMP components could be designed to minimize their conflict with the Theme Building (which resulted in the enclosed *LAX Design Guidelines*), and examined the APM alignment adjacent to the Theme Building in detail to see how far it could be pushed away from the Theme Building. This resulted in shifting the APM alignment further north than the alignment originally proposed.

Another concern expressed by the Los Angeles Conservancy was that they wanted to make sure that LAWA took a comprehensive look at the historic resources owned by LAWA and developed a systematic way of managing those resources in the future. As a result, a *Preservation Plan for LAX* was developed.

In terms of public comments, all of the comments on the Theme Building and historic resources that were received during the California Environmental Quality Act LAX LAMP Draft EIR process are enclosed along with the responses provided to those comments in the LAX LAMP Final Environmental Impact Report. There was only one comment letter (PC00012 from Stephen Birch) and two other comments (one from the LAX Area Advisory Committee and one from the Alliance for a Regional Solution to Airport Congestion (ARSAC) concerning potential effects to the Theme Building. No other comments have been raised or received about effects to the Theme Building during the extensive public outreach held on the LAX Landside Access Modernization Program to date. In the future, FAA plans to put the Draft EA out for public review and comment.

6. Efforts to Reduce or Avoid those Direct Effects.

As a result of the above meetings and community outreach the following minimization and mitigation measures were developed to reduce and avoid the adverse effects:

- The FAA shall ensure that each of the consulting parties receives a copy of the City-approved Historic Structures Report (HSR). Prior to the issuance of a building permit for the APM, a HSR shall be prepared for the Theme Building to guide its preservation and future use. The format and content of the report shall comply with Preservation Brief 43: The Preparation and Use of Historic Structure Reports.
- The Theme Building shall be rehabilitated for a new use that maintains controlled public access to the building's atrium, lobby and former restaurant space. Potential new uses for the Theme Building include, but are not limited to, a restaurant, the public/educational exhibits, or a meeting/event space.

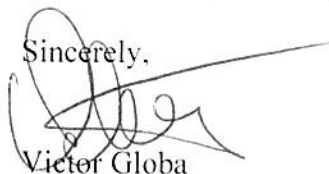
- The Theme Building shall be rehabilitated in compliance with the Secretary of the Interior's Standards for Rehabilitation and the Guidelines for Rehabilitating Historic Buildings. The general specifications for the rehabilitation project shall include specifications for the treatment of character defining features as identified in the HSR. The specifications shall include, but are not limited to, sections for the treatment of historic fabric; quality control; substitution procedures; selective demolition; cutting and patching; removal and storage of historic materials; protection and cleaning; repair options; and potential replacement of severely deteriorated features. Materials conservation plans shall be incorporated into the plans and specifications as necessary.
- The remaining space around the Theme Building, bounded on the north and south by Center Way and on the east by East Way, shall be preserved and retained as open space to recall the Theme Building's historic setting when it was first built. An interpretive program will be created that may include photographic exhibits, audio/visual presentations, and interactive displays to chronicle the history and design of the Theme Building and its context within the larger airport plan, the architects, and their historic significance. This exhibit shall be located in the open space immediately surrounding the Theme Building or within the Theme Building and shall be made accessible to the public.
- The rehabilitation project team shall include a qualified historic architect who meets the Secretary of the Interior's Professional Qualifications Standards for historic architecture. The historic architect shall work with the project team to review project alternatives and the impacts of the proposed rehabilitation, and shall monitor construction for compliance with the recommendations in the HSR.
- LAWA shall apply the following guidelines to the final design of the APM guideway and passenger walkway adjacent to the Theme Building to reduce visual impacts:
 - Minimize the number of columns and structures surrounding the Theme Building by maximizing the column support span in this area.
 - Minimize the bulk of the APM guideway structure to preserve openness around the Theme Building to the extent feasible.
 - Design the APM and passenger walkway structures around the Theme Building to complement the existing Theme Building structure and better harmonize the Project elements and the Theme Building.
 - Implement landscape elements in the vicinity of the Theme Building that enhance passenger and visitor's visual focus on the Theme Building (i.e., make the Theme Building the visual focus of this area, not the proposed Project elements).

The LAX Theme Building will not be physically altered by construction. The above-described minimization and mitigation measures would reduce adverse effects. The LAX Theme Building would remain physically intact in its original location and its unique architectural design would remain discernible and continue to convey its historical significance despite being partially obscured by the proposed new construction. For these reasons, the Theme Building would remain eligible for inclusion in the National Register after implementation of LAMP.

The FAA has included a Draft Memorandum of Agreement that includes the above minimization efforts to reduce or avoid those direct effects as part of its stipulations. We seek your review and concurrence with attached MOA.

If you have any further questions about this matter, please call me at (310) 725-3637.

Sincerely,

A handwritten signature in black ink, appearing to read "Victor Globa", with a long horizontal flourish extending to the right.

Victor Globa
Environmental Protection Specialist

Enclosures

Cc: AWP-610; E. Quintanilla – LAWA

**OFFICE OF HISTORIC PRESERVATION
DEPARTMENT OF PARKS AND RECREATION**

1725 23rd Street, Suite 100
SACRAMENTO, CA 95816-7100
(916) 445-7000 Fax: (916) 445-7053
calshpo@parks.ca.gov
www.ohp.parks.ca.gov



June 28, 2017

Refer To: FAA_2017_0127_001

Victor Globa
Environmental Protection Specialist
Federal Aviation Administration
Western Pacific Region, Airports Division
P.O. Box 92007
Los Angeles, CA 90009-2007

RE: Proposed Landside Access Modernization Program, Los Angeles International Airport, Los Angeles, California

Dear Mr. Globa:

The Federal Aviation Administration is consulting with the State Historic Preservation Officer (SHPO). The FAA does so in an effort to comply with Section 106 of the *National Historic Preservation Act of 1966* (16 U.S.C. §306108) as amended, and its implementing regulations found at 36 CFR Part 800. The FAA is requesting concurrence with determinations of eligibility and an Adverse Effect finding for the above-referenced undertaking.

Los Angeles World Airports (LAWA) plans to institute a large-scale construction project at Los Angeles International Airport. In prior consultation, FAA and SHPO agreed that the Area of Potential Effects for the undertaking was adequate to account direct and indirect effects to historic properties. Construction components include the following:

- Automatic People Mover (APM) system with six APM stations connecting the central terminal area via an above ground fixed guide way to new buildings that will provide ground access to the airport;
- Land acquisition for the APM right-of-way, totaling approximately 26 acres;
- Passenger walkway systems connecting the APM stations to passenger terminals, parking garages, and ground transportation facilities;
- Modifications to existing passenger terminals and parking garages to support the APM walkway system connections, including vertical circulation cores to the arrival, departure, and concourse levels at the terminals;
- APM maintenance and storage facility and APM power substations;
- A consolidated rental car facility;

- Two intermodal transportation facilities;
- Roadway improvements;
- Security features, including fencing, surveillance cameras, security lighting, and emergency call boxes;
- Fire safety features, such as hydrants, sprinklers, and extinguishers;
- Utilities construction, both new construction and modification of current facilities;
- Various enabling projects to allow construction, including utility relocation and demolition of some current facilities

Depth of ground disturbance will range from 50 to 120 below ground level throughout the project area. Multiple staging areas will be used throughout the APE.

The FAA received a list of Native American contacts from the California Native American Heritage Commission. The commission recommended the FAA contact the Gabrielino Band of Mission Indians, Kizh Nation, and four representatives of the Gabrielino-Tongva Tribe. On November 2, 2016, FA provided information about the project to these contacts. No responses were received.

The FAA conducted a cultural resources records search on December 11, 2014 at the South Central Coastal Information Center. The search encompassed all prior cultural resources surveys conducted within a half mile of the APE. The records show that no archaeological sites have been recorded in the APE.

Historic Resources Group (HRG), LAWA's cultural resources consultant, composed a study of the historic built environment, titled *LAX Landside Access Modernization Program Section 106 Assessment* (HRG: February 2017). Based on the results of the study, five buildings and one structure in the APE are listed or eligible for listing on the National Register of Historic Places (NRHP). They are as follows:

- LAX Theme Building: determined eligible for listing in 2001 under National Register Criterion C and G by consensus through the Section 106 process;
- 9700 S. Sepulveda Boulevard, Aircraft School: determined eligible under National Register Criterion A by HRG and FAA;
- 6151 West Century Boulevard, The McCulloch Building: SurveyLA recommended the property as eligible in 2013; however, the building is currently being remodeled and has, according to HRG, lost integrity and is therefore no longer eligible under Criterion C;
- 5959 West Century Boulevard, Tishman Airport Center Building: SurveyLA recommended the property as eligible in 2013. FAA has determined the property is eligible under Criterion C;

- 9841 North Airport Boulevard, Airport Century Building: SurveyLA recommended the property as eligible in 2013. The FAA has determined the building is eligible under Criterion C;
- Air Raid Siren No. 150: SurveyLA recommended the property as eligible in 2013. The FAA has determined that the property is eligible for listing under Criterion A;

The FAA has determined that the undertaking will adversely affect the Theme Building. Proposed construction of support buildings in the adjacent parking area, the location of the guideway and walkways, and the frequency of use of the people mover system will partially obscure unique features of the Theme Building's architectural design and function and would reduce the integrity of the property's setting. The undertaking will not adversely affect the Aircraft School, The McCulloch Building, The Tishman Airport Center Building, The Airport Century Building, or Air Raid Siren No. 150.

To mitigate the adverse effect, the FAA proposes the following measures:

- The FAA shall ensure each consulting party receives a copy of the City-approved Historic Structures Report (HSR). Prior to the issuance of a building permit for the APM, an HSR will be prepared for Theme Building to guide its preservation and future use. The format and content of the HSR will comply with National Park Service Preservation Brief 43: The Preparation and Use of Historic Structures Reports.
- The Theme Building will be rehabilitated for a new use that maintains controlled public access to the building's atrium, lobby, and former restaurant space. Potential new uses for the Theme Building include, but are not limited to: restaurant, public/educational exhibit area, or a meeting/event space.
- The Theme Building will be rehabilitated in compliance with the Secretary for the Interior's Standards for Rehabilitation and the Guidelines for Rehabilitating Historic Buildings. The general specifications for the rehabilitation project shall include specifications for the treatment of character defining features as identified in the HSR. The specifications will include, but are not limited to, sections for the treatment of historic fabric; quality control; substitution procedures; selective demolition; cutting and patching; removal and storage of historic materials; protection and cleaning; repair options; and potential replacement of severely deteriorated features. Materials conservation plans will be incorporated into the plans and specifications as necessary.
- The remaining space around the Theme Building, bounded on the north and south by Center Way and on the east by East Way, shall be preserved and retained as open space to recall the Theme Building's historic setting when it was first built. An interpretive program will be created that may include photographic exhibits, audio/visual presentations, and interactive displays to chronicle the history of the property and its context within the larger airport plan, the architects, and their historic significance. The exhibit shall be located in the open space immediately surrounding the Theme Building or within the building and shall be made publicly accessible.

- The rehabilitation project team will include a qualified historic architect who meets the Secretary of the Interior's Professional Qualifications for historic architecture. The historic architect will work with the project team to review project alternatives and the impacts of the proposed rehabilitation, and will monitor construction for compliance with the recommendations of the HSR.
- Los Angeles World Airports will apply the following guidelines to the final design of the APM guideway and passenger walkway adjacent to the Theme Building to reduce visual impacts:
 - o Minimize the number of columns and structures surrounding the Theme Building by maximizing the column support span in this area;
 - o Minimize the bulk of the APM guideway structure to preserve openness around the Theme Building to the extent feasible;
 - o Design the APM and passenger walkway structures around the Theme Building to complement the existing Theme Building structure and better harmonize the project elements and the Theme Building;
 - o Implement landscape elements in the vicinity of the Theme Building that enhance passenger and visitor's visual focus on the Theme Building (i.e., make the Theme Building the visual focus of this area, not the proposed project elements);

Having reviewed the FAA's letter and supporting documentation, SHPO has the following comments:

- 1) SHPO concurs that the project, as described, will adversely affect the Theme Building;
- 2) SHPO agrees with the FAA that an Memorandum of Understanding (MOA), in which mitigation measures are set out and roles and responsibilities for the implementation of these measures is clearly stated, is the appropriate vehicle for the resolution of the Adverse Effect;
- 3) SHPO will work with the FAA and any interested parties to develop meaningful mitigation, such as the proposed actions outlined in the FAA's letter;
- 4) SHPO would need additional information about the historic significance of the Aircraft School, Tishman Airport Center Building, McCulloch Building, Airport Century Building, and Air Raid Siren No. 150 before concurring with FAA's determinations of eligibility. However, considering that the undertaking will not affect these properties, SHPO will consider these buildings and structures eligible for listing on the NRHP for the purposes of this undertaking. Under this condition, the project will not adversely affect these properties.

June 28, 2017

Page 5 of 5

SHPO looks forward to working with the FAA to preserve this unique historic property. If you require further information, please contact State Historian Tristan Tozer at (916) 445-7027 or at Tristan.Tozer@parks.ca.gov.

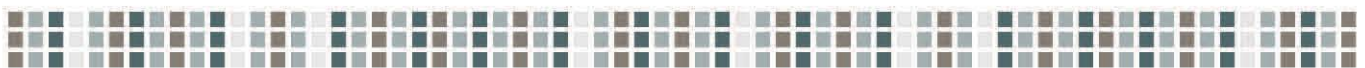
Sincerely,

A handwritten signature in blue ink, consisting of a stylized 'J' followed by a horizontal line.

Julianne Polanco
State Historic Preservation Officer

Appendix H.3

Proposed SHPO Memorandum of Agreement



**MEMORADUM OF AGREEMENT
BETWEEN THE
FEDERAL AVIATION ADMINISTRATION,
CALIFORNIA STATE HISTORIC PRESERVATION OFFICER, AND
THE CITY OF LOS ANGELES
REGARDING THE PROPOSED LANDSIDE ACCESS MODERNIZATION PROGRAM
LOS ANGELES INTERNATIONAL AIRPORT**

WHEREAS, the City of Los Angeles (City) has requested the Federal Aviation Administration (FAA), as lead Federal agency, approve the City's Aviation Department [known as Los Angeles World Airport's (LAWA)] proposed revision of the Airport Layout Plan (ALP) for Los Angeles International Airport (LAX) depicting the proposed Landside Access Modernization Program (LAMP) specifically depicting the location of the fixed guide way – Automated People Mover (APM); and

WHEREAS, the proposed undertaking consists of constructing an above ground fixed guide way, commonly identified as the Automated People Mover (APM) from the proposed Consolidated Rental Car Facility into and around the Central Terminal Area to be used by airport passengers and employees; and

WHEREAS, the FAA is responsible for completing the requirements of Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. § 470 (NHPA) for this undertaking; and

WHEREAS, the FAA has consulted with the California State Historic Preservation Officer (SHPO) and other interested parties pursuant to 36 CFR 800; and

WHERE AS, the FAA has consulted with the State of California Native American Heritage Commission, the Gabrielino Band of Mission Indians – Kizh Nation, and four different representatives of the Gabrielino-Tongva Tribe.

WHEREAS, the FAA, in consultation with the SHPO, has established the Area of Potential Effects (APE) for construction of the proposed undertaking, as depicted on **Attachment 1**; and

WHEREAS, the FAA has provided the Advisory Council on Historic Preservation (Council) with its adverse effect determination with specified documentation pursuant to the regulations for Protection of Historic Properties, Title 36, Code of Federal Regulations (CFR), Section (§) 800.6(a)(1), which implement Section 106 of the National Historic Preservation Act (16 U.S.C. § 470);

WHEREAS, the FAA determined participation of the Council in this MOA is not necessary pursuant to 36 CFR § 800.6(a)(1)(iii); and

WHEREAS, construction of the Proposed Action would occur in two separate phases. The first phase would be constructed over approximately 6 years, beginning in 2018 and finishing in 2024. While most construction of the Phase 1 Project would be completed by 2022, system and operational testing of the APM and other facilities would extend into 2023. The second phase of construction would begin in 2025 and be completed by 2030.

WHEREAS, the FAA, in consultation with the SHPO, determined that implementation of the proposed undertaking could adversely affect the Theme Building, a historic property eligible for listing in the National Register of Historic Places (NRHP); and

WHEREAS, the SHPO is authorized to advise and assist federal and state agencies in carrying out their historic preservation responsibilities and cooperate with these agencies under California law; and

WHEREAS, the SHPO is authorized to enter into this Agreement in order to fulfill its role of advising and assisting federal agencies in carrying out their Section 106 responsibilities under the following federal statutes: Sections 101 and 106 of the National Historic Preservation Act (NHPA) of 1966, as amended, 16 U.S.C. § 470(f) and pursuant to 36 CFR Part 800, the regulations implementing Section 106 of the NHPA, at 36 CFR §§ 800.2(c)(1)(i) and 800.6(b); and

WHEREAS, the City is the project proponent and has primary responsibility for funding and implementing many provisions of this Agreement; and

NOW, THEREFORE, the FAA, SHPO and City, collectively referred to as signatory parties, agree that upon signing this Agreement, the FAA's approval of the City's Airport Layout Plan, and the City's decision to proceed with the proposed undertaking, the FAA shall ensure that the following stipulations are implemented in order to take into account the effects of the undertaking on historic properties.

STIPULATIONS

The FAA shall ensure the following stipulations are implemented:

Stipulation 1. Transmittal of City's Historic Resources Report. The FAA shall ensure that each of the parties receives a copy of the City-approved Historic Structures Report (HSR). Prior to the issuance of a building permit for the APM, a HSR shall be prepared for the Theme Building to guide its preservation and future use. The format and content of the report shall comply with Preservation Brief 43: The Preparation and Use of Historic Structure Reports.

Stipulation 2. The Theme Building shall be rehabilitated for a new use that maintains controlled public access to the building's atrium, lobby and former restaurant space. Potential new uses for the Theme Building include, but are not limited to, a restaurant, the public/educational exhibits, or a meeting/event space.

Stipulation 3. The Theme Building shall be rehabilitated in compliance with the Secretary of the Interior's Standards for Rehabilitation and the Guidelines for Rehabilitating Historic Buildings. The general specifications for the rehabilitation project shall include specifications for the treatment

of character defining features as identified in the HSR. The specifications shall include, but are not limited to, sections for the treatment of historic fabric; quality control; substitution procedures; selective demolition; cutting and patching; removal and storage of historic materials; protection and cleaning; repair options; and potential replacement of severely deteriorated features. Materials conservation plans shall be incorporated into the plans and specifications as necessary.

Stipulation 4. The remaining space around the Theme Building, bounded on the north and south by World Way and on the east by East Way, shall be preserved and retained as open space to recall the Theme Building's historic setting. An interpretive program will be created that may include photographic exhibits, audio/visual presentations, and interactive displays to chronicle the history and design of the Theme Building and its context within the larger airport plan, the architects, and their historic significance. This exhibit shall be located in the open space immediately surrounding the Theme Building or within the Theme Building and shall be made accessible to the public.

Stipulation 5. The rehabilitation project team shall include a qualified historic architect who meets the Secretary of the Interior's Professional Qualifications Standards for historic architecture. The historic architect shall work with the project team to review project alternatives and the impacts of the proposed rehabilitation, and shall monitor construction for compliance with the recommendations in the HSR.

Stipulation 6. LAWA shall apply the following guidelines to the final design of the APM guideway and passenger walkway adjacent to the Theme Building to reduce visual impacts:

- Minimize the number of columns and structures surrounding the Theme Building by maximizing the column support span in this area.
- Minimize the bulk of the APM guideway structure to preserve openness around the Theme Building to the extent feasible.
- Design the APM and passenger walkway structures around the Theme Building to complement the existing Theme Building structure and better harmonize the Project elements and the Theme Building.
- Implement landscape elements in the vicinity of the Theme Building that enhance passenger and visitor's visual focus on the Theme Building (i.e., make the Theme Building the visual focus of this area, not the proposed Project elements).

Stipulation 7. The remaining space around the Theme Building, bounded on the north and south by World Way and on the east by East Way, would be preserved and retained as open space to recall the Theme Building's historic setting. An interpretive program would be created that may include photographic exhibits, audio/visual presentations, and interactive displays to chronicle the history and design of the Theme Building and its context within the larger airport plan, the architects, and their historic significance. This exhibit would be located in the open space immediately surrounding the Theme Building or within the Theme Building and be made accessible to the public.

Stipulation 8. Review, Comment and Consultation.

Plans and reports prepared in accordance with this Agreement shall be consistent with guidelines of the California SHPO, and the City of Los Angeles. The FAA shall submit the HSR to the California SHPO and other participants in this Agreement for a 15-day (15-day) review period. The FAA, in consultation with the signatories to this Agreement, shall consider any comments provided within 15 days, and request the City revise reports, as appropriate. The FAA shall provide the consulting parties with a copy of the final reports.

Stipulation 9, Professional Qualifications

The FAA shall ensure that all historic preservation work carried out pursuant to this Agreement is carried out by or under the supervision of a person or persons meeting at a minimum the Secretary of Interior's Professional Qualification Standards (36 CFR Part 61).

Stipulation 10. Equal Opportunity/Non-Discrimination

The Consulting Parties agree to comply with all applicable federal or state laws relating to equal opportunity and non-discrimination.

Stipulation 11. Confidentiality

Maintaining confidentiality of certain historic information is allowed under Section 304 of the National Historic Preservation Act. Therefore, the nature and location of certain historic properties discussed in this Agreement shall not be publicly disclosed per 36 CFR § 800.11(c).

Stipulation 12. Dispute Resolution

Should any party to this Agreement object within 30-days to any actions proposed or carried out pursuant to this Agreement, the FAA shall consult with the objecting party to resolve the objection. The FAA shall notify the California SHPO of any objection. If the FAA determines the objection cannot be resolved, the FAA shall forward all documentation relevant to the dispute to the Advisory Council on Historic Preservation (ACHP). Within 30-days after receipt of all pertinent documentation, the ACHP will either:

- A. Provide the FAA with recommendations, which the FAA will take into account in reaching a final decision regarding the dispute; or

- B. Notify the FAA it will comment pursuant to 36 CFR § 800.7(c), and proceed to comment. Any ACHP comment provided in response to such a request will be taken into account by the FAA in accordance with 36 CFR § 800.7(c)(4) with reference to the subject of the dispute; or
- C. Any recommendation of comment provided by the ACHP will be understood to pertain only to the subject of the dispute. The FAA responsibility to carry out all actions under this Agreement that are not subject to the dispute will remain unchanged.

Stipulation 13. Amendment

Any of the signatories to this Agreement may request that the Agreement be amended according to 36 CFR § 800.6(c)(7). Any amendment will be effective on the date an amended Agreement is signed by all signatories. The FAA will ensure a copy of any executed amendment is filed with the ACHP.

Stipulation 14. Termination

In the event the terms of this Agreement cannot be or are not being carried out, the signatories shall consult to seek amendment of the Agreement. If an agreement cannot be reached on an amendment, the FAA or the California SHPO may terminate this Agreement pursuant to 36 CFR § 800.6(c)(8). The FAA will either execute a new Agreement under 36 CFR § 800.6(c)(1) or request and consider the comments of the ACHP pursuant to 36 CFR § 800.7(a).

EXECUTION

Execution of this Agreement, filing of the Agreement with the ACHP pursuant to 36 CFR §800.6(b)(1)(iv), and implementation of its terms is evidence that the FAA has taken into account the effects of the undertaking on historic properties protected under Section 106 of the National Historic Preservation Act and afforded the ACHP an opportunity to comment on the undertaking pursuant to that Act.

FEDERAL AVIATION ADMINISTRATION

By _____
Director, Office of Airports, Western-Pacific Region

Date

CALIFORNIA STATE HISTORIC PRESERVATION OFFICE

By _____
California State Historic Preservation Officer

Date

CITY OF LOS ANGELES, A MUNICIPAL CORPORATION

By _____
Deborah Flint
Chief Executive Officer

Date

ATTEST:

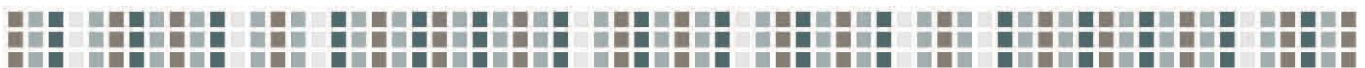
APPROVED AS TO FORM:

City Clerk

City Attorney

Appendix H.4

ACHP Coordination Letters





U.S Department
of Transportation

**Federal Aviation
Administration**

Western-Pacific Region
Airports Division
Los Angeles Airports District Office

Mailing Address:
15000 Aviation Boulevard
Lawndale, CA 90261

May 22, 2017

Ms. Charlene Dwin Vaughn
Assistant Director, Federal Permitting, Licensing and Assistance Section
Advisory Council on Historic Preservation
401 F Street, N.W., Suite 308
Washington D.C. 20001

Proposed Landside Access Modernization Program
Los Angeles International Airport
Los Angeles, Los Angeles County, California
Request for Advisory Council on Historic Preservation Participation

Dear Ms. Vaughn:

The City of Los Angeles, through its Aviation Department, Los Angeles World Airports (LAWA) and the Federal Aviation Administration (FAA) are preparing Federal environmental documentation to comply with the National Environmental Policy Act of 1969 (NEPA) for proposed improvements associated with the Landside Access Modernization Program (LAMP) at Los Angeles International Airport (LAX). The Federal action is the approval of LAWA's Airport Layout Plan and potential FAA funding for eligible portions of the proposed undertaking.

The purpose of this letter is to formally request, pursuant to Title 36, Code of Federal Regulations, Section 800.6(a)(1), the Advisory Council on Historic Preservation's (ACHP) participation in the consultation and review of the Federal Aviation Administration's (FAA) findings made pursuant to 36 C.F.R. Sections 800.5(c)(3)(i) and (c)(3)(ii) for the potential effects of the proposed LAMP undertaking at Los Angeles International Airport, Los Angeles County, California.

LAWA is pursuing LAMP to address automobile congestion in and around the Central Terminal Area (CTA) at LAX. The bulk of the proposed LAMP occurs on existing airport property.

BACKGROUND

LAX is the largest commercial service airport in southern California, and the second busiest in the United States, and fourth busiest in the world with more than 80.9 million passengers in 2016. On a daily basis up to 6,000 vehicles enter LAX during peak periods resulting in conflicts between private, commercial and service vehicles; insufficient curb space and limited roadways due to traffic saturation.

The proposed improvements that will be analyzed in this environmental documentation include:

- Construction of an Automated People Mover (APM) system with six APM stations connecting the CTA via an above ground fixed guide way;
- Passenger walkway systems within the CTA connecting the APM stations to passenger terminals, parking garages, and ground transportation facilities;
- Modifications to existing passenger terminals and parking garages to support the APM walkway system connections, including vertical circulation cores to the arrival, departure, and concourse levels at the terminals;
- An APM maintenance and storage facility (MSF); and
- APM power substations.
- A Consolidated Rental Car facility (CONRAC) designed to meet the needs of car rental agencies serving LAX with access to the CTA via the APM;
- Two Intermodal Transportation Facilities (ITF) providing parking and pick-up and drop-off areas outside the CTA for private vehicles and commercial shuttles;
- Roadway improvements and project design features designed to improve access to the proposed facilities and the CTA and reduce traffic congestion in neighboring communities;
- Security features, including security fencing, surveillance cameras, security lighting, and emergency phones/call boxes, to reduce demands on the Los Angeles World Airports Police Department (LAWAPD);
- Utilities infrastructure, both new and modified, as needed, to support the proposed undertaking;
- Land acquisition for the APM right-of-way in various locations totaling about 26-acres is identified in Figure 2-47 "*Properties to be Acquired*" (**Enclosure 1**) and
- Various enabling projects to allow construction of the Proposed Action, including utility relocation and demolition of certain existing facilities, some of which would be reconstructed.

Depths of disturbance will vary from 50 feet to 120 feet deep throughout the project. Each of the main facilities of the Proposed Action would require pile foundations. It is assumed that both Cast-In-Drilled-Hole (CIDH) piles and driven piles will be used where necessary. CIDH piles involve drilling and removal of soils and construction of a cast-in-place, reinforced concrete pile within the open borehole. Driven piles involve in-place installation of a steel pile with a pile-driving hammer, and do not involve removal of materials from the ground. Driven pile installations typically generate noise and

vibrations. As a result, LAWA will adhere to its “*Archaeological Treatment Plan*” (**Enclosure 2**) and shall retain a Cultural Resource Monitor who will determine if the proposed action is subject to archaeological monitoring

LAWA intends to use multiple staging areas around the airport as shown on the APE drawing. Each of these sites has been significantly disturbed in the past.

Area of Potential Effect (APE)

1. APE Designation. FAA carefully considered the location of various known historic properties near the proposed undertaking. To that end, FAA worked with the California State Historic Preservation Officer (SHPO) to develop the APE associated with the proposed LAMP project. Please see **Enclosure 3** Area of Potential Effect. FAA formally consulted with the California SHPO about the APE pursuant to 36 CFR 800 by letter dated January 26, 2017 (**Enclosure 4**). The California SHPO concurred with the FAA’s delineation of the APE, by letter February 13, 2017 (**Enclosure 5**).

The following section describes the APE for the proposed undertaking:

2. Proposed Lamp Project: Figure 1: Area of Potential Effect shows the discontinuous Physical Disturbance Area for the proposed LAMP project. The APE includes about 775 acres and is split into three general regions: Central Terminal Area, East of the Central Terminal Area, and Aviation Boulevard/Imperial Highway Area.

- The *Central Terminal Area* (CTA) includes areas west of Sepulveda Boulevard, focused around World Way and the passenger terminals at LAX.
- *East of the Central Terminal Area* is generally bounded by W. Century Boulevard on the south, Interstate 405 (I-405) on the east, West Arbor Vitae Street/LAX property boundary on the north, and Sepulveda Boulevard on the west.
- *The Aviation Boulevard/Imperial Highway Area* is bounded by Imperial Highway on the south, W. 111th Street on the north, Aviation Boulevard on the west, and Hindry Avenue on the east, but also includes roadway improvements along the I-405 and La Cienega Boulevard.

The APE comprises various airport, regional commercial, general commercial, and medium-density residential land uses. The APE is developed and heavily urbanized, with some vacant areas associated with the Belford and Manchester Square residential areas being acquired by LAWA under a voluntary sales program at the request of the residents beginning back in 1996. The APE also includes the construction staging areas described above that are not contiguous with the portion of the APE for the proposed LAMP construction work.

FAA used the boundaries of the entire area that would have physical disturbance to delineate a Direct Effects APE. FAA determined these boundaries through consultation with LAWA on the extent of the proposed LAMP project. FAA has identified a discontinuous APE for the proposed undertaking. LAWA has advised FAA that it plans

to use its existing construction staging areas primarily within the proposed project area. LAWA also plans to use land east of the South Runway Complex including an area, formerly known as “Continental City,” at the north east corner of Aviation Boulevard and Imperial Highway for construction staging. To ensure complete coordination, the APE includes both of these existing disturbed staging areas.

Additional Consultation.

The following text summarizes the documentation we are providing: (1) Determinations of eligibility of historic and archaeological sites for the National Register of Historic Places (NRHP); (2) Native American consultation; (3) Public participation in the Section 106 process, and (4) Determinations of effect on historic properties, including additional information to better explain the potential visual impacts and FAA’s determination of effect.

1. National Register Eligibility Determinations

Historic Resources Group (HRG) LAWA’s cultural resources consultant, prepared the “*LAX Landside Access Modernization Program Section 106 Assessment*, dated February 2017” (**Enclosure 6**). Based on the information contained within the *LAX Landside Access Modernization Program Section 106 Assessment*, FAA has determined there are four (4) buildings and one (1) structure that are listed or eligible for listing in the National Register of Historic Places (NRHP) for the proposed undertaking. They are as follows:

- **LAX Theme Building** - The Theme Building, completed in 1962, was originally constructed as the geographic centerpiece and visual focus of the CTA. It was designed by Pereira and Luckman in an Expressionistic style to serve as the futuristic symbol of the new “jet age” airport. It is located in the very center of the CTA, at the midpoint of the main east-west axis. It sits on a circular island ringed by a divided access road, Center Way. North of Centerway, is the United States Overseas (USO) building and a surface parking lot. South of Center Way is another surface parking lot, to the east, southwest, and northwest are multi-story automobile parking structures. Immediately west are parallel rows of barrel-roofed service buildings and the FAA’s Airport Traffic Control Tower built in 1996.

In 2001, the Theme Building was determined eligible for listing in the National Register by consensus through a Section 106 evaluation. It was found eligible under Criterion C for architectural significance and was determined to satisfy National Register Criterion Consideration G for exceptional significance in a building less than 50 years old (at the time of evaluation).

- **9700 S. Sepulveda Boulevard (Aircraft School)** - This property contains a handful of modest single-story buildings set within an expanse of surface parking. The largest of the buildings is rectangular in plan with a bow-truss roof and monitor, horizontal wood cladding, and metal-frame, multi-light casement windows. The building is constructed in a vernacular/industrial style. Two smaller buildings with gable roofs and a rectangular masonry building with a flat roof and attached shade canopy are clustered just south of the bow-truss roof

building. A rectangular building of more recent vintage is set apart from the others at the northwest corner of the site.

The Historic Resources Report states the property has a long historic association with training in the aircraft trades in service of the rapid post-World War II growth of the aerospace industry in Southern California. This building was built for civil defense training just eight months prior to the Japanese attack on Pearl Harbor. The property is representative of the 20th century development of aircraft and aerospace related industries and services that clustered near the airport beginning with the establishment of Mines Field (the original name for LAX).

Only the rectangular bow-truss building has retained sufficient integrity to convey the historic significance of the property. FAA has determined this property is eligible for inclusion into the NRHP under National Register Criterion A.

- **5959 West Century Boulevard (Tishman Airport Center Building)** - The 12-story office building was designed by Welton Beckett & Associates as part of the “International Airport Center” commercial development located on the north side of Century Boulevard just east of the CTA. The Airport Center Building was built in 1966; this mid-rise commercial office building was recommended as eligible for the National Register by SurveyLA in 2013. FAA has determined this property is eligible for inclusion into the NRHP under Criterion C.
- **9841 North Airport Boulevard (Airport Century Building)** - The mid-rise office building was built in 1968. It was also designed by the architectural firm of Welton Beckett & Associates as part of the “International Airport Center” commercial development located on the north side of Century Boulevard just east of the CTA. The Airport Century Building was recommended as eligible for the National Register by SurveyLA in 2013. FAA has determined this property is eligible for inclusion into the NRHP under Criterion C.
- **Air Raid Siren No. 150** - Located on the south side of West 98th Street just east of Airport Boulevard, this rotating air raid siren on a freestanding pole was recommended as eligible for the National Register, by SurveyLA in 2013. Erected and installed in 1940, the siren was evaluated as historically significant for its association with World War II and Cold War military infrastructure. FAA has determined this property is eligible for inclusion into the NRHP under Criterion A.

FAA provided its Adverse Effects determination via letter to California SHPO on March 20, 2017 (Enclosure 7). To date, we have not received a reply from the California SHPO.

2. Native American Consultation

FAA provided project information about the proposed undertaking and Area of Potential Effect for the Landside Access Modernization Program to the tribal contacts provided by

the California Native American Heritage Commission using the U.S. Mail. FAA contacted, the Gabrielino Band of Mission Indians – Kizh Nation, and four different representatives of the Gabrielino-Tongva Tribe by letter dated November 2, 2016. FAA did not receive any comments from the tribes.

3. Public Participation

FAA is coordinating Section 106 review along with the NEPA process. The coordination has provided opportunities for the public to review and provide any comments on potential effects on historic properties. The Notice of Public Scoping Meeting to prepare the EA was held on June 22, 2016. A total of 17 people signed in during the public scoping meeting. The Draft EA will be made available for public review and comment in the near future and the FAA anticipates additional comments.

Throughout the development of the proposed action LAWA has been actively communicating and working with the Los Angeles Conservancy, City of Los Angeles' Office of Historic Resources and the California SHPO. A total of nine meetings were held between November 2014 and June 2016 with the above identified agencies to get input on the proposed LAMP project.

The Los Angeles Conservancy have advised they want LAWA to take a comprehensive look at the historic resources owned by LAWA and developed a systematic way of managing those resources in the future. As a result, a "*Preservation Plan*" (**Enclosure 8**) for LAX was developed.

Public comments received to date, (**Enclosure 9**). All of the comments on the Theme Building and various historic resources received during the State of California Environmental documentation process are enclosed along with the responses provided to those comments. The comments and responses are included in the LAX LAMP Final Environmental Impact Report. There was only one comment letter (PC00012 from Stephen Birch) and two other comments (one from the LAX Area Advisory Committee and one from the Alliance for a Regional Solution to Airport Congestion (ARSAC) concerning potential effects to the Theme Building. Additionally, on March 23, 2017, the LA Conservancy provided comments (Enclosure 12) on the proposed LAMP project. No other comments have been raised or received about effects to the Theme Building during the extensive public outreach held on the LAX Landside Access Modernization Program to date.

4. Assessment of Adverse Effects on Historic Properties

FAA has determined there are four historic properties listed or eligible for listing on the NRHP within the APE. FAA has determined the proposed undertaking will not affect the following properties:

- 9700 S. Sepulveda Boulevard (Aircraft School)
- 5959 West Century Boulevard (Tishman Airport Center Building)

- 9841 North Airport Boulevard (Airport Century Building):
- Air Raid Siren No. 150

The LAMP project: 1) Will not relocate any of the above properties; 2) Will not alter any of the design elements; 3) Will not impact the setting or feeling of the physical environment; 4) Will not obscure views since most views will be blocked by other buildings; 5) Will not affect workmanship, feeling or association of the identified properties; and 6) The LAMP project does not include the demolition, destruction, damage, physical alteration or relocation of the Theme Building.

However, FAA has determined that the proposed undertaking will indirectly affect the Theme Building for the following reasons:

- Structures associated with the LAMP project would be constructed within the parking lots that surround the Theme Building. These parking areas are an important component of the Theme Building's original setting. However, the construction of the multi-story parking structures, and second level roadways prior to the 1984 Los Angeles Summer Olympics, changes the overall setting of the Theme Building. FAA has determined the Theme Building would not retain integrity of setting after implementation of the LAMP project as described below;
- Although the LAMP project will not directly result in the construction or physical alteration of the Theme Building, the proposed LAMP APM guideway and walkway would alter the physical setting of the Theme Building by constructing new structures to the immediate north, east and west. The APM guideway would be approximately 70 feet above ground around the Theme Building supported on concrete columns and would be constructed within 43 feet of the Theme Building at its closest point. The elevated walkway connecting Terminals 2 and 6 would be approximately 20 feet from the Theme Building at its closest point.
- The proposed APM train cars would be approximately 42 feet long, 9 feet wide and 12 feet in height. The proposed APM trains would include up to 5 cars and would operate 24 hours a day, 7 days per week. During peak periods of operation, operating headway intervals (time between trains at a given station) would be approximately 2 minutes.
- FAA finds the proposed construction of the APM and walkway associated with LAMP would partially obscure unique features of the Theme Building's architectural design as well as its original function from certain perspectives and would reduce the integrity of the setting of the Theme Building.

FAA proposes to incorporate the following measures to further reduce the adverse effects on the Theme Building by the proposed undertaking:

As a result of the above coordination meetings and community outreach, the following minimization and mitigation measures were developed to reduce and avoid the indirect adverse effects:

- Prior to the issuance of a building permit for the APM, a Historic Resources Report (HSR) shall be prepared for the Theme Building to guide its preservation and future use. The format and content of the report shall comply with “*Preservation Brief 43: The Preparation and Use of Historic Structure Reports*” (**Enclosure10**). The FAA shall ensure that each of the consulting parties receives a copy of the City-approved HSR.
- The Theme Building shall be rehabilitated for a new use that maintains controlled public access to the building’s atrium, lobby and former restaurant space. Potential new uses for the Theme Building include, but are not limited to, a restaurant, the public/educational exhibits, or a meeting/event space.
- The Theme Building shall be rehabilitated in compliance with the Secretary of the Interior’s Standards for Rehabilitation and the Guidelines for Rehabilitating Historic Buildings. The general specifications for the rehabilitation project shall include specifications for the treatment of character defining features as identified in the HSR. The specifications shall include, but are not limited to, sections for the treatment of historic fabric; quality control; substitution procedures; selective demolition; cutting and patching; removal and storage of historic materials; protection and cleaning; repair options; and potential replacement of severely deteriorated features. Materials conservation plans shall be incorporated into the plans and specifications as necessary.
- The remaining space around the Theme Building, bounded on the north and south by Center Way and on the east by East Way, shall be preserved and retained as open space to recall the Theme Building’s historic setting when it was first built. An interpretive program will be created that may include photographic exhibits, audio/visual presentations, and interactive displays to chronicle the history and design of the Theme Building and its context within the larger airport plan, the architects, and their historic significance. This exhibit shall be located in the open space immediately surrounding the Theme Building or within the Theme Building and shall be made accessible to the public.
- The rehabilitation project team shall include a qualified historic architect who meets the Secretary of the Interior’s Professional Qualifications Standards for historic architecture. The historic architect shall work with the project team to review project alternatives and the impacts of the proposed rehabilitation, and shall monitor construction for compliance with the recommendations in the HSR.
- LAW shall apply the following guidelines to the final design of the APM guideway and passenger walkway adjacent to the Theme Building to reduce visual impacts
 - Minimize the number of columns and structures surrounding the Theme Building by maximizing the column support span in this area.
 - Minimize the bulk of the APM guideway structure to preserve openness around the Theme Building to the extent feasible.

- Design the APM and passenger walkway structures around the Theme Building to complement the existing Theme Building structure and better harmonize the Project elements and the Theme Building.
- Implement landscape elements in the vicinity of the Theme Building that enhance passenger and visitor's visual focus on the Theme Building (i.e., make the Theme Building the visual focus of this area, not the proposed Project elements).

Summary

The LAX Theme Building will not be physically altered by construction and operation of the proposed undertaking. The above-described minimization and mitigation measures would reduce the effects on the LAX Theme Building. The LAX Theme Building would remain physically intact in its original location and its unique architectural design would remain discernible and continue to convey its historical significance despite being partially obscured by the proposed new construction. For these reasons, the Theme Building would remain eligible for inclusion in the National Register after implementation of LAMP.

FAA has included a Draft Memorandum of Agreement (MOA) (**Enclosure 11**) that includes the above minimization efforts to reduce or avoid those effects as part of its stipulations. We invite the Advisory Council to review the MOA and indicate if you would like to participate as a signatory party with attached MOA.

We look forward to hearing from you soon. If you have any questions, please do not hesitate to contact Victor Globa, Environmental Protection Specialist at 310-725-3637 or me at 310/725-3644.

Sincerely,



David F. Cushing
Manager, Los Angeles Airports District Office

Enclosures

1. Properties to be Acquired
2. Archaeological Treatment Plan
3. Area of Potential Effect
4. FAA Section 106 consultation with SHPO
5. California SHPO concurrence with APE
6. LAX Landside Access Modernization Program Section 106 Assessment
7. FAA Direct Effects Determination
8. LAX Preservation Plan
9. CEQA EIR Public Comments
10. Preservation Brief 43: The Preparation and Use of Historic Structure Reports

11. Draft Memorandum of Agreement

12. LA Conservancy Comment Letter

Cc: T. Cuddy, APP-400, AWP-600, AWP-7, LAX-600,
LAWA, Ricondo & Associates



Preserving America's Heritage

June 5, 2017

Mr. Victor Globa
Environmental Protection Specialist
Federal Aviation Administration
15000 Aviation Boulevard, Room 3000
Lawndale, CA 90261

Ref: *Proposed Los Angeles International Airport Landside Access Modernization Program*
Los Angeles, Los Angeles County, California

Dear Mr. Globa:

The Advisory Council on Historic Preservation (ACHP) has received your notification and supporting documentation regarding the adverse effects of the referenced undertaking on a property or properties listed or eligible for listing in the National Register of Historic Places. Based upon the information provided, we have concluded that Appendix A, *Criteria for Council Involvement in Reviewing Individual Section 106 Cases*, of our regulations, "Protection of Historic Properties" (36 CFR Part 800), does not apply to this undertaking. Accordingly, we do not believe that our participation in the consultation to resolve adverse effects is needed. However, if we receive a request for participation from the State Historic Preservation Officer (SHPO), Tribal Historic Preservation Officer (THPO), affected Indian tribe, a consulting party, or other party, we may reconsider this decision. Additionally, should circumstances change, and it is determined that our participation is needed to conclude the consultation process, please notify us.

Pursuant to 36 CFR §800.6(b)(1)(iv), you will need to file the final Memorandum of Agreement (MOA), developed in consultation with the California State Historic Preservation Officer (SHPO), and any other consulting parties, and related documentation with the ACHP at the conclusion of the consultation process. The filing of the MOA, and supporting documentation with the ACHP is required in order to complete the requirements of Section 106 of the National Historic Preservation Act.

Thank you for providing us with the notification of adverse effect. If you have any questions or require further assistance, please contact Sarah Stokely at (202) 517- 0224 or sstokely@achp.gov.

Sincerely,

LaShavio Johnson
Historic Preservation Technician
Office of Federal Agency Programs

ADVISORY COUNCIL ON HISTORIC PRESERVATION

401 F Street NW, Suite 308 • Washington, DC 20001-2637
Phone: 202-517-0200 • Fax: 202-517-6381 • achp@achp.gov • www.achp.gov

Appendix I

Land Use Assurance Letter





Los Angeles
World Airports

May 19, 2017

Mr. David F. Cushing
Manager, Los Angeles Airports District Office
Federal Aviation Administration
15000 Aviation Boulevard, Suite 3000
Lawndale, CA 90261

LAX

Van Nuys

City of Los Angeles

Eric Garcetti
Mayor

Board of Airport
Commissioners

Sean O. Burton
President

Valeria C. Velasco
Vice President

Jeffery J. Daar
Gabriel L. Eshaghian
Beatrice C. Hsu
Thomas S. Sayles
Dr. Cynthia A. Telles

Deborah Flint
Chief Executive Officer

**SUBJECT: PROPOSED LANDSIDE ACCESS MODERNIZATION PROGRAM
LOS ANGELES INTERNATIONAL AIRPORT
LAND USE ASSURANCE LETTER**

Dear Mr. Cushing:

The Los Angeles World Airports, a department of the City of Los Angeles, in the state of California, makes the following statement of land use assurance as required by 49 U.S.C. § 47107(a)(10), formerly Section 511(a)(5) of the Airport and Airway Improvement Act of 1982, as amended.

Los Angeles International Airport is physically located within the City of Los Angeles, which has authority to regulate and control land use and zoning within the City of Los Angeles municipal limits. Cities bordering the airport to the east are Inglewood, Lennox, Hawthorne and Del Aire (an unincorporated area of the County of Los Angeles), and south of the airport is the City of El Segundo.

The City of Los Angeles provides assurance that appropriate action, within the authority of the City, including encouragement of the adoption of zoning laws, has been and will be taken, to the extent reasonable to restrict the use of land adjacent or in the immediate vicinity of the Los Angeles International Airport to activities and purposes compatible with normal airport operations both existing and in the future. Within the municipal limits of the City of Los Angeles, heights of structures and natural objects in the vicinity of the airport are regulated by ordinances described within the Los Angeles Municipal Code. Section 12.50 of the Planning and Zoning Code includes Airport Hazard Maps and regulations relating to height limits. The ordinance relating to this Section of the Code, was written and adopted in 1971 and amended in 2000, in conformance with Federal Aviation Regulation, Part 77.

The City of Los Angeles works with the adjacent municipalities having land use jurisdiction over land adjacent to or in the immediate vicinity of the Airport and encourages the adoption of zoning laws, to the extent reasonable, to restrict the use of land adjacent to or in the immediate vicinity of the Airport to activities and purposes compatible with airport operations. The City of Los Angeles is involved with these neighboring communities and municipalities in promoting compatible land uses as evidenced by Part 150 noise mitigation efforts. The City of Los Angeles comments on proposed land uses development in neighboring communities as it affects the airport at

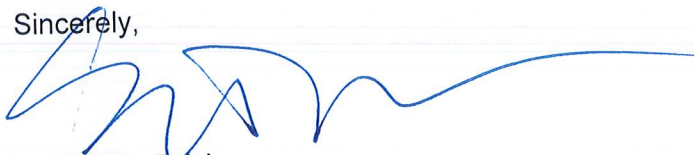


Mr. Cushing
May 19, 2017
Page No. 2

every available opportunity. The City of Los Angeles is committed to every feasible measure to ensure lane use compatibility with its surrounding neighborhoods.

If you have any questions regarding this matter, please contact Evelyn Quintanilla of my staff at (424) 646-5188 or by email at equintanilla@lawa.org.

Sincerely,



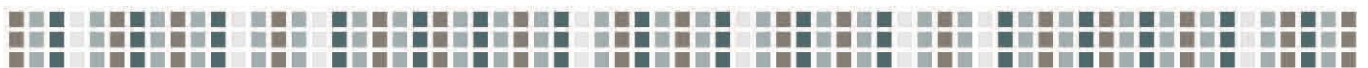
Samantha Bricker
Deputy Executive Director
Los Angeles World Airports

SM:EQ

cc: Evelyn Quintanilla
Victor Globa, FAA LAX-ADO

Appendix J

Noise



Appendix J. Noise

J.1 Noise Data Collection

J.1.1 INTRODUCTION

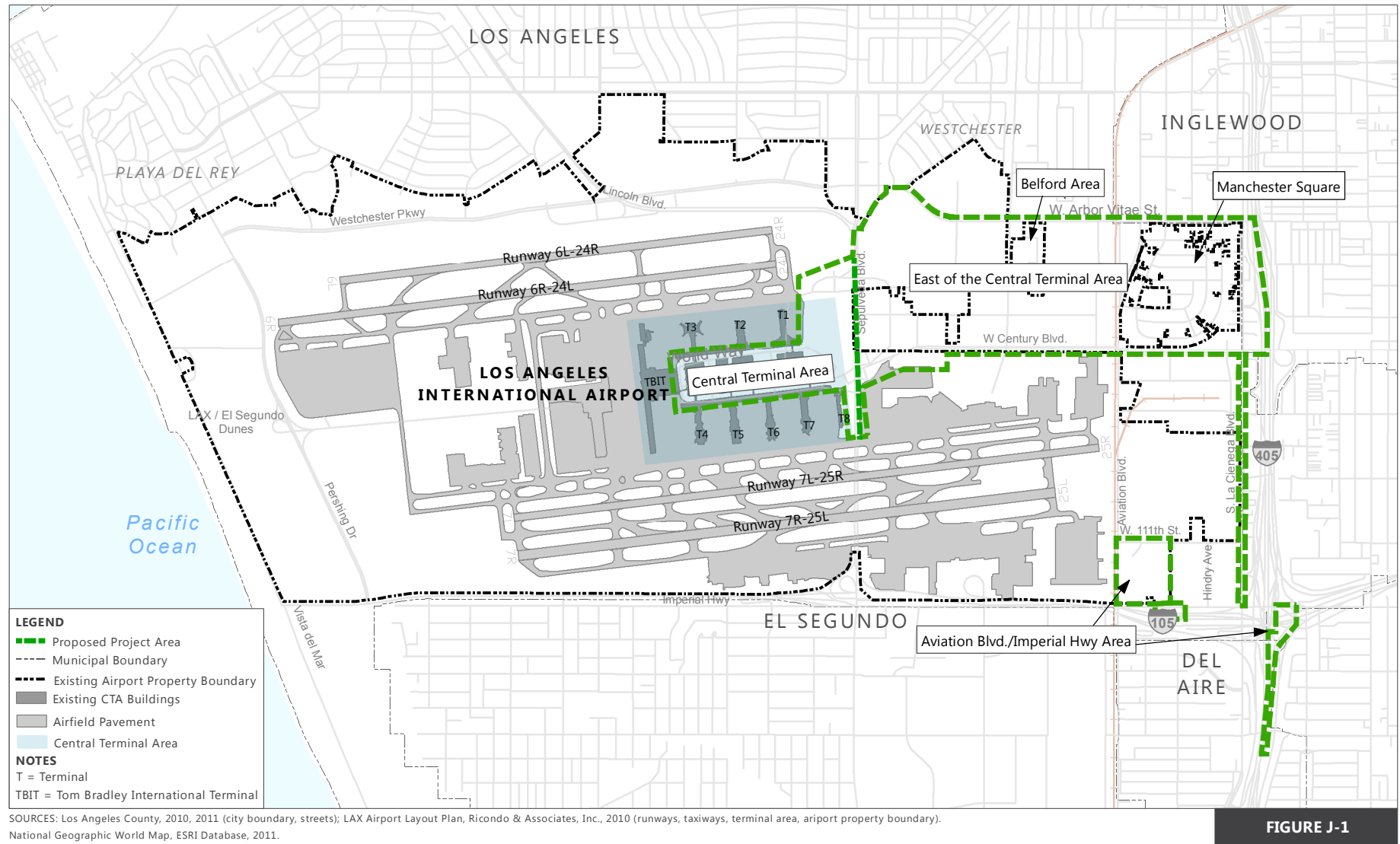
The proposed Landside Access Modernization Program (Proposed Action Alternative) for Los Angeles International Airport (LAX or Airport) comprises several development components that would serve to provide enhanced traffic circulation around the Airport upon completion. A fundamental understanding of the existing environmental setting and potential impacts associated with the Proposed Action Alternative is necessary prior to approval and implementation. This technical memo documents fieldwork that was conducted to record existing ambient noise levels at sensitive land uses and regional traffic intersections that would be potentially affected by construction and operation of the Proposed Action Alternative.

The Proposed Action Alternative includes the development of a proposed Automated People Mover (APM) system that would extend for approximately 2.25 miles, starting at the Central Terminal Area (CTA) and extending to the future proposed consolidated rental car facility (CONRAC) that would be situated adjacent to Interstate 405 (I-405). For the purposes of this analysis, the Proposed Project Area considered includes the areas located within the CTA extending east to the I-405, as shown in **Figure J-1**.

The general Proposed Project Area is roughly bound by the Tom Bradley International Terminal (TBIT) in the CTA on the west, the I-405 on the east, Westchester Parkway/W. Arbor Vitae Street on the north, and Interstate 105 (I-105) on the south. Additionally, the Proposed Action Alternative would include various roadway improvements that would affect areas south of Century Boulevard along Aviation Boulevard south to I-105; areas along 111th Street between Aviation Boulevard to La Cienega Boulevard and areas west of Sepulveda Boulevard between Sky Way and 96th Street.

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[Preliminary Draft for Discussion Purposes Only]



Proposed Project Area



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J.1.2 PURPOSE OF DATA COLLECTION

An ambient noise-monitoring survey was performed to establish existing noise levels at various locations within the Proposed Project Area. The monitoring was conducted to provide data on ambient noise generated by road traffic and the operation of current establishments in the area surrounding LAX, as well as along the roadway network that comprises the study intersections for the Proposed Action Alternative traffic study.

Noise impacts anticipated to be generated by the Proposed Action Alternative were assessed using sound-modeling techniques to estimate the changes in noise that would result from both construction activities and operation of the Proposed Action Alternative. To assess noise impacts on a regional scale, the Federal Highway Administration (FHWA) Highway Traffic Noise Prediction Model (RD-77-108) was used to approximate existing traffic noise levels at sensitive receptors placed along the edge of the street segments between traffic study intersections. Vehicular noise levels along individual roadway segments within the Proposed Project Area were completed using the SoundPLAN noise modeling software in combination with the FHWA Highway Traffic Noise Model (TNM).

The data collection was used to determine whether construction and operation of the Proposed Action Alternative would result in noise levels that exceed applicable significance thresholds as discussed in Section J.1.4 below.

J.1.3 METHODOLOGY

Noise measurements were collected in accordance with guidance provided in the Federal Transit Administration (FTA) document *Transit Noise and Vibration Impact Assessment*.¹ The document outlines procedures and recommendations for assessing potential noise and vibration impacts from transit projects.

Under the FTA guidance document, land use types used in determining noise impact criteria are designated into three land use categories: Category 1, Category 2, and Category 3. Category 1 includes uses where quiet is an essential element in their intended purpose, such as indoor concert halls or outdoor concert pavilions, or National Historic Landmarks where outdoor interpretation routinely takes place. Category 2 includes residences and buildings where people sleep, while Category 3 includes institutional land uses with primarily daytime and evening use, such as school, places of worship, and libraries. Land use types included in Category 1 do not occur within the scope of this analysis along the proposed APM guideway.

Larson Davis Model 870, Larson Davis Model 820, and Rion Model NL-31 ANSI Type-1 precision integrating sound level meters (SLMs) were used to measure the noise during the 24-hour collection period at each location. The SLMs were field calibrated before and after the measurements and have annual calibration records traceable to NIST (National Institute of Standards and Technology).

¹ U.S. Department of Transportation, Office of Planning and Environment, Federal Transit Administration, *Transit Noise and Vibration Impact Assessment*, May 2006.

The SLM used to conduct the noise monitoring survey was a Type 1 (precision) Larson Davis Model 831 SLM. This meter meets all requirements of American National Standards Institute (ANSI) S1.4-1983 and ANSI 1.43-1997 Type 1 standards², as well as International Electrotechnical Commission (IEC) IEC61672-1 Ed. 1.0, IEC60651 Ed 1.2, and IEC60804 Type 1, Group X standards.³ The SLM was located approximately 5 feet above ground and was covered with a Larson Davis windscreen. The SLM was field calibrated with an external calibrator prior to operation.

The FTA guidance document recommends that full 24-hour measurements be obtained for residential land uses. For non-residential uses, the guidance recommends that at least two single-hour recordings be taken on two non-successive weekdays during peak hour activities.⁴

J.1.3.1 Construction Traffic Noise

The analysis of construction traffic noise impacts focused on off-Airport areas by (1) identifying major roadways near the Airport that may be used for construction worker commute routes or truck haul routes; (2) generally identifying the nature and location of noise-sensitive receptors along those routes; and (3) evaluating the traffic characteristics along those routes, specifically as such characteristics relate to existing traffic volumes.

J.1.3.2 Construction Equipment Noise

Construction activities generate noise from the operation of equipment required for demolition and construction of various facilities. Noise impacts from on-site construction and staging of construction trucks were evaluated by determining the noise levels generated by different types of construction activity, calculating the construction-related noise level at nearby noise-sensitive receptor locations, and comparing these construction-related noise levels to existing ambient noise levels (i.e., noise levels without Proposed Action Alternative-related construction noise). **Table J-1** provides the locations of Proposed Project Area noise-sensitive receptors.

² American Institute of Physics for the Acoustical Society of America, *American National Standard Specification for Sound Level Meters*, 1992.

³ Larson Davis 831, *Advanced Sound Level Meter for Architectural, Environmental, & Product Noise Analysis*.
http://www.larsondavis.com/contentstore/mktg/LD_Downloads/831_Lowres.pdf.

⁴ U.S. Department of Transportation, Office of Planning and Environment, Federal Transit Administration, *Transit Noise and Vibration Impact Assessment*, May 2006.

Table J-1: Proposed Action Alternative Area Existing Ambient Noise Receptors

RECEPTOR ID	EXISTING LAND USE	APPROXIMATE ADDRESS
RP1	Concourse Hotel	6225 W Century Blvd, Los Angeles
RP2	LAX Sheraton Gateway Hotel	6107 W 98th Street, Los Angeles
RP3	LAX Sheraton Gateway Hotel	6101 W Century Blvd, Los Angeles
RP4	Office Building	6052 W 98th St, Los Angeles
RP5	Four Points Sheraton Hotel	9750 Airport Blvd, Los Angeles
RP6 ^{1/}	Residential Development	9520 Belford Ave, Los Angeles
RP7 ^{1/}	Warehousing/Freight Forwarding	5651 W 96th St, Los Angeles
RP8 ^{1/}	Neutrogena	5705 W 98th St, Los Angeles
RP9 ^{1/}	Bright Star Secondary Charter Academy/Residential Development	5431 W 98th St, Los Angeles
RP10 ^{1/}	Residential Development	5450 W 99th Pl, Los Angeles
RP11 ^{1/}	Residential Development	9329 Isis Ave, Los Angeles
RP12 ^{1/}	Residential Development	9312 Glasgow Pl, Los Angeles 9846 Glasgow Pl, Los Angeles
RP13 ^{1/}	Residential Development	9714 Glasgow Pl, Los Angeles
RP14 ^{1/}	Residential Development	9312 Glasgow Pl, Los Angeles
RP15	Residential Development	700 W Arbor Vitae St, Los Angeles

NOTE:

1/ Existing facility would be acquired and demolished prior to Project implementation.

SOURCE: Meridian Consultants, LLC, August 2016.

PREPARED BY: Ricondo & Associates, Inc., September 2016.

More specifically, the following steps were undertaken to calculate construction-period noise levels:

1. Ambient noise levels at surrounding noise-sensitive receptor locations were modeled based on existing noise in proximity to the nearby noise-sensitive receptors, as shown in Table J-1.
2. Typical noise levels for each type of construction equipment were obtained from FHWA's Roadway Construction Noise Model. A sample of typical construction equipment noise levels is shown in **Table J-2**. Construction equipment, including number and type of equipment, was identified for each phase/component of construction.
3. Distances between construction site and staging area locations (noise source), and surrounding noise-sensitive receptors were measured using Proposed Action Alternative plans and aerial imagery.
4. Construction traffic and equipment noise levels were calculated for noise-sensitive receptor locations based on the conventional standard point source noise-distance attenuation factor of 4.5 to 6.0 dBA for

each doubling of distance. Construction noise levels were quantified at predetermined distances from the site using the L_{eq} metric.

5. Calculated noise levels associated with Proposed Action Alternative construction at noise-sensitive receptor locations were then compared to estimated existing noise levels and the construction noise significance thresholds identified below.

Ambient noise level measurements were taken at each of fifteen (15) receptor locations using calibrated precision integrating sound level meters (SLMs) between July 1, 2015, and August 4, 2015. These locations represent the noise-sensitive receptors that would most likely be affected by construction noise. The noise meters were placed 5 feet above ground level, with test periods of 20-minute intervals at each location. The maximum, minimum, and equivalent steady-state sound level (L_{eq}) was collected for each site logged in 1-minute intervals. Ambient noise levels are presented later in this appendix. Ambient noise measurements were collected during a continuous 24-hour period, as recommended by the FTA.⁵ These noise measurement locations are assumed to be representative of other surrounding sensitive receptors in proximity to the Proposed Action Alternative areas.

⁵ U.S. Department of Transportation, Office of Planning and Environment, Federal Transit Administration, *Transit Noise and Vibration Impact Assessment*, May 2006.

[DRAFT]

Table J-2 (1 of 2): Typical Construction Equipment Noise Levels

EQUIPMENT	ACOUSTICAL USAGE FACTOR (%)	ACTUAL MEASURES LMAX (DBA) @ 50 FEET
All Other Equipment > 5 HP	50	85 ^{1/}
Auger Drill Rig	20	84
Backhoe	40	78
Bar Bender	20	80 ^{1/}
Blasting	N/A	94 ^{1/}
Boring Jack Power Unit	50	83
Chain Saw	20	84
Clam Shovel (dropping)	20	87
Compactor (ground)	20	83
Compressor (air)	40	78
Concrete Batch Plant	15	83 ^{1/}
Concrete Mixer Truck	40	79
Concrete Pump Truck	20	81
Concrete Saw	20	90
Crane	16	81
Dozer	40	82
Drill Rig Truck	20	79
Drum Mixer	50	80
Dump Truck	40	76
Excavator	40	81
Flat Bed Truck	40	74
Front End Loader	40	79
Generator	50	81
Generator (<25KVA, VMS Signs)	50	73
Gradall	40	83
Grader	40	85 ^{1/}
Grapple (on backhoe)	40	87
Horizontal Boring Hydraulic Jack	25	82
Hydra Break Ram	10	90 ^{1/}
Impact Pile Driver	20	101
Jackhammer	20	89
Man Lift	20	75
Mounted Impact Hammer (hoe ram)	20	90
Pavement Scarifier	20	90
Paver	50	77
Pickup Truck	40	75
Pnematic Tools	50	85

Table J-2 (2 of 2): Typical Construction Equipment Noise Levels

EQUIPMENT	ACOUSTICAL USAGE FACTOR (%)	ACTUAL MEASURES LMAX (DBA) @ 50 FEET
Pumps	50	81
Refrigerator Unit	100	73
Rivit Buster/Chipping Gun	20	79
Rock Drill	20	81
Roller	20	80
Sand Blasting (single nozzle)	20	96
Scraper	40	84
Sheers (on backhoe)	40	96
Slurry Plant	100	78
Slurry Trenching Machine	50	80
Soil Mix Drill Rig	50	80 ^{1/}
Tractor	40	84 ^{1/}
Vacuum Excavator (Vac-Truck)	40	85
Vacuum Street Sweeper	10	82
Ventilation Fan	100	79
Vibrating Hopper	50	87
Vibratory Concrete Mixer	20	80
Vibratory Pile Driver	20	101
Warning Horn	5	83
Welder/Torch	40	74

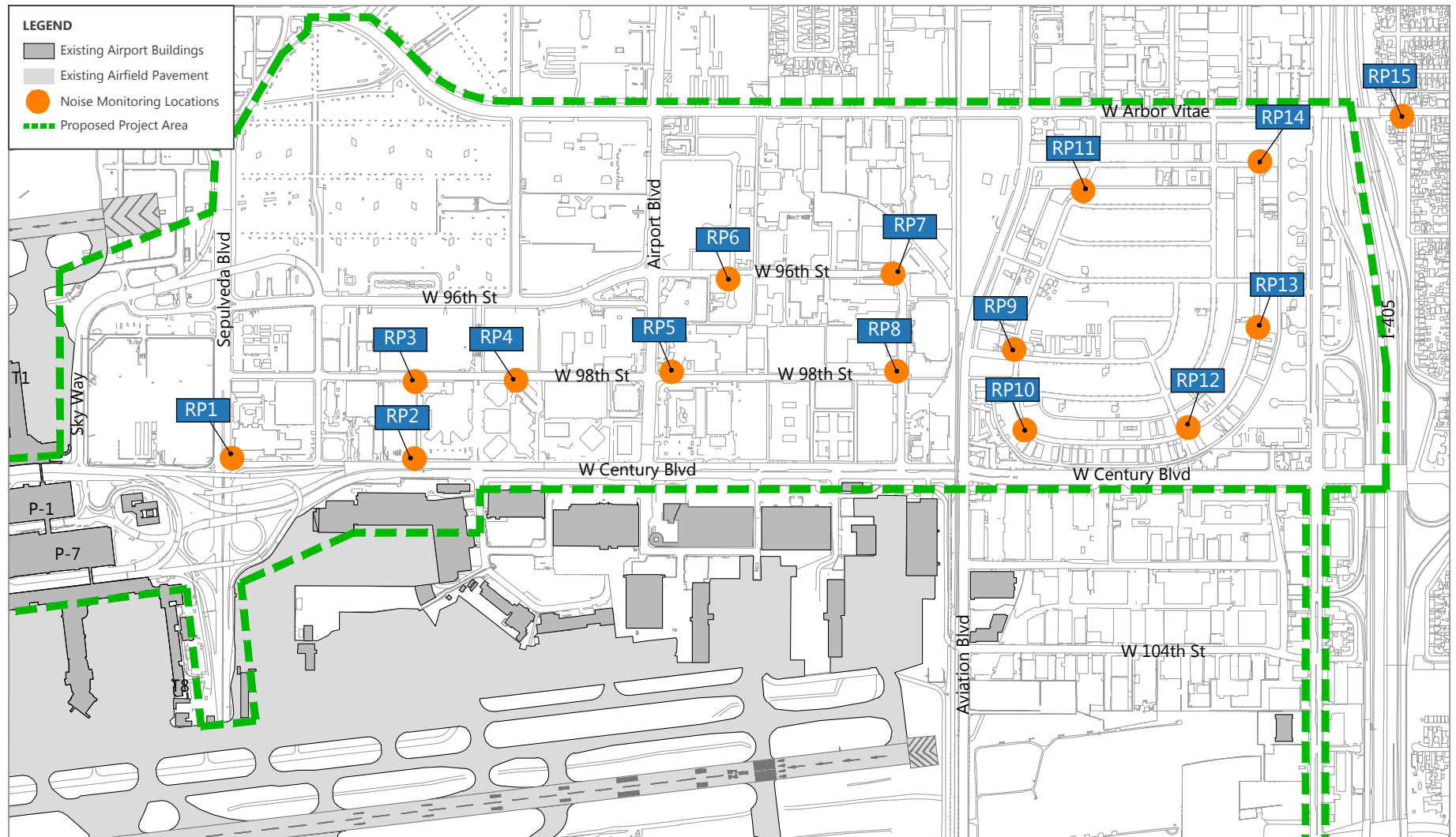
NOTE: 1/ Spec. 721.560 Lmax @ 50 feet.

SOURCE: U.S. Department of Transportation, Federal Highway Administration, FHWA Highway Construction Noise Handbook, Chapter 9, Construction Equipment Noise Levels and Ranges, August 2006.

PREPARED BY: Ricondo & Associates, Inc. September 2016.

Figure J-2 identifies the locations of the 15 noise-sensitive receptors selected for the construction noise impacts analysis in the vicinity of the Proposed Project Area. The locations are described by the nearest approximate address and the type of adjacent land use, as shown in Table J-1. It is important to note that receptors RP6, and RP9 through RP14 would be acquired by LAWA and demolished prior to Proposed Action Alternative implementation.

[Preliminary Draft for Discussion Purposes Only]



SOURCE: Los Angeles World Airports; Parsons Brinckerhoff, November 2015.
PREPARED BY: Ricondo & Associates, Inc., August 2017.

FIGURE J-2

Project Area Noise Monitoring Locations

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Noise levels from outdoor construction activities, independent of background ambient noise levels, indicate that the noisiest phases of construction are typically during excavation and grading, and that noise levels from equipment with mufflers are typically 86 dBA Leq at 50 feet from the noise source.⁶ This type of sound typically dissipates at a rate of 4.5 dBA to 6 dBA for each doubling of distance. The sound drop off rate does not take into account any intervening shielding (including landscaping or trees) or barriers, such as structures or hills between the noise source and noise receptor. A barrier that breaks the line of sight between a source and a receiver will typically result in at least 5 dB of noise reduction. A higher barrier may provide as much as 20 dB of noise reduction.

Construction equipment noise was evaluated by determining the noise levels generated by typical outdoor construction activity and calculating the potential for exposure to noise-sensitive uses. Representative ambient noise levels (non-construction noise) at the noise-sensitive uses were determined based on information contained in the LAX Master Plan EIR⁷ and the Airport noise contour shown on a recent quarterly noise report (i.e., Second Quarter 2016).⁸

Construction equipment noise impacts were assessed by identifying the closest noise-sensitive receptors to each construction area.

J.1.4 DATA COLLECTION

Existing ambient noise data collection was conducted at Proposed Project Area (24-hour CNEL) locations that correspond with the traffic study intersection locations. Sensitive land uses and establishments situated close to future construction zones were identified in the screening survey.

Acoustic specialists recorded 24-hour measurements of existing ambient ground-level noise at 14 locations in the Proposed Project Area situated between the LAX CTA and the I-405, through which the APM system would traverse. The 24-hour survey locations are shown on Figure J-2; and the ambient 24-hour noise environment results are shown in **Table J-3**.

⁶ City of Los Angeles, L.A. CEQA Thresholds Guide, *Your Resource for Preparing CEQA Analyses in Los Angeles, Section I.1, Construction Noise*, 2006.

⁷ City of Los Angeles, *Final Environmental Impact Report for Los Angeles International Airport (LAX) Proposed Master Plan Improvements*, Section 4.1, April 2004.

⁸ City of Los Angeles, Los Angeles World Airports, *California State Airport Noise Standards Quarterly Report, Second Quarter 2016, Los Angeles International Airport*, August 10, 2016, Available: <http://www.lawa.org/uploadedFiles/LAX/pdf/2q16%20Quarterly%20Report.pdf>, accessed August 30, 2016.

[DRAFT]

Table J-3: Proposed Project Area Noise Survey Locations

SURVEY POINTS^{1/}	LOCATION DESCRIPTION	UTM E	UTM N	DURATION	START DATE/TIME	END DATE/TIME
6225 W. Century Boulevard	Concourse Hotel, northeast corner of W. Century Boulevard & Sepulveda Boulevard	370998	3757013	1 hour (2)	7/30/2015 16:53 8/4/2015 16:20	7/30/2015 17:53 8/4/2015 17:20
6107 W. 98th Street	Northeast corner of Joe's Airport Parking along W. 98th Street between Vicksburg Avenue & Avion Drive	371404	3757178	24 hours	7/16/2015 9:00	7/17/2015 9:00
6101 W. Century Boulevard	Southeast corner of Joe's Airport Parking along W. Century Boulevard, between Vicksburg Avenue & Avion Drive	371401	3757008	24 hours	7/16/2015 9:00	7/17/2015 9:00
6052 W. 98th Street	East of Skyview Center along W. 98th Street	371627	3757179	24 hours	7/16/2015 7:00	7/17/2015 7:00
9750 Airport Boulevard	Four Points Hotel on the corner of Airport Boulevard & W. 98th Street	371971	3757194	24 hours	7/9/2015 10:00	7/10/2015 10:00
9520 Belford Avenue	Corner of Belford Avenue & 96th Street	372098	3757398	24 hours	7/9/2015 11:00	7/10/2015 11:00
5651 W. 96th Street	Northeast corner of W. 96th Street & Bellanca Avenue	372462	3757406	24 hours	7/9/2015 11:00	7/10/2015 11:00
5705 98th Street	Northwest corner of W. 98th Street & Bellanca Avenue	372468	3757191	24 hours	7/9/2015 11:00	7/10/2015 11:00
9329 Isis Avenue	Alley between W. 93rd Street & W. 94th Street	372884	3757586	24 hours	7/1/2015 12:00	7/2/2015 12:00
5431 W. 98th Street	Northwest corner of Isis Avenue & W. 98th Street	372728	3757236	24 hours	7/9/2015 12:00	7/10/2015 12:00
5450 W. 99th Place	South side of W. 99th Place	372750	3757058	24 hours	7/1/2015 10:00	7/2/2015 10:00
9312 Glasgow Place	Northeast corner of Glasgow Place & 93rd Street	373275	3757646	24 hours	7/1/2015 11:00	7/2/2015 11:00
9714 Glasgow Place	North of 9714 Glasgow Place	373267	3757280	24 hours	7/1/2015 11:00	7/2/2015 11:00
9846 Glasgow Place	Northeast corner of Hindry Avenue & Glasgow Place	373111	3757060	24 hours	7/1/2015 11:00	7/2/2015 11:00
700 W Arbor Vitae Street	Southwest corner of Arbor Vitae Street & Ash Avenue	373590	3757745	24 hours	7/16/2015 8:00	7/17/2015 8:00

NOTE:

1/ Survey Point is closest building address to the measurement location.

SOURCE: Meridian Consultants, LLC, August 2016.

PREPARED BY: Meridian Consultants, LLC, August 2016.

[DRAFT]

Two 1-hour measurements were collected at the Concourse Hotel,⁹ located on the corner of Sepulveda Boulevard and W. Century Boulevard, due to equipment malfunction during the overnight collection period. Per the FTA guidance document, these measurements were taken on non-successive weekdays during peak-hour activities.

Results of the 24-hour noise monitoring survey, as well as the two single-hour measurements at the Concourse hotel, are provided in **Table J-4**, which presents the average 24-hour noise level, the maximum noise level recorded, and the peak hour of noise at each location. The 24-hour (Leq) noise measurements ranged from a high of 71.4 dB(A) (6101 W. Century Boulevard) to a low of 58.7 dB(A) (9846 Glasgow Place); the CNEL values ranged from a high of 77.4 dB(A) (6101 W. Century Boulevard) to a low of 62.7 dB(A) (9846 Glasgow Place). The highest 24-hour (Leq) and CNEL noise levels were both recorded at 6101 W. Century Boulevard, on the southeast corner of Joe's Airport Parking along W. Century Boulevard, between Vicksburg Avenue and Avion Drive.

Table J-4 (1 of 2): Proposed Project Area Noise Measurements

SURVEY POINTS ^{1/}	LOCATION DESCRIPTION	UTM E	UTM N	DURATION	START DATE/TIME	END DATE/TIME	24-HR LEQ (DBA)	LEQ (DAYTIME) (DBA) ^{2/}	LDN (DBA) ^{3/}	CNEL (DBA) ⁴
6225 W. Century Boulevard	Concourse Hotel, northeast corner of W. Century Boulevard & Sepulveda Boulevard	370998	3757013	1 hour	8/4/2015 16:20	8/4/2015 17:20	76.3 ⁵	N/A	N/A	N/A
6225 W. Century Boulevard	Concourse Hotel, northeast corner of W. Century Boulevard & Sepulveda Boulevard	370998	3757013	1 hour	7/30/2015 16:53	7/30/2015 17:53	75.7 ⁵	N/A	N/A	N/A
6107 W. 98th Street	Northeast corner of Joe's Airport Parking along W. 98th Street between Vicksburg Avenue & Avion Drive	371404	3757178	24 hours	7/16/2015 9:00	7/17/2015 9:00	66.2	66.5	72.2	72.4
6101 W. Century Boulevard	Southeast corner of Joe's Airport Parking along W. Century Boulevard, between Vicksburg Avenue & Avion Drive	371401	3757008	24 hours	7/16/2015 9:00	7/17/2015 9:00	71.4	72.0	77.0	77.4

⁹ At the time ambient noise data collection was conducted (July 1, 2015, and August 4, 2015), the hotel at 6225 W. Century Boulevard was named the Concourse Hotel. In October 2016, the Concourse Hotel was renamed as the Hyatt Regency Los Angeles International Airport.

[DRAFT]

Table J-4 (2 of 2): Proposed Project Area Noise Measurements

SURVEY POINTS ^{1/}	LOCATION DESCRIPTION	UTM E	UTM N	DURATION	START DATE/TIME	END DATE/TIME	24-HR LEQ (DBA)	LEQ (DAYTIME) ^{2/}	LDN (DBA) ^{3/}	CNEL (DBA) ^{4/}
6052 W. 98th Street	East of Skyview Center along W. 98th Street	371627	3757179	24 hours	7/16/2015 7:00	7/17/2015 7:00	71.2	72.4	75.4	75.9
9750 Airport Boulevard	Four Points Hotel on the corner of Airport Boulevard & W. 98th Street	371971	3757194	24 hours	7/9/2015 10:00	7/10/2015 10:00	66.8	67.9	71.4	71.7
9520 Belford Avenue	Corner of Belford Avenue & 96th Street	372098	3757398	24 hours	7/9/2015 11:00	7/10/2015 11:00	63.5	64.7	67.7	68.2
5651 W. 96th Street	Northeast corner of W. 96th Street & Bellanca Avenue	372462	3757406	24 hours	7/9/2015 11:00	7/10/2015 11:00	66.8	67.8	71.3	71.7
5705 98th Street	Northwest corner of W. 98th Street & Bellanca Avenue	372468	3757191	24 hours	7/9/2015 11:00	7/10/2015 11:00	67.2	68.0	72.1	72.4
9329 Isis Avenue	Alley between W. 93rd Street & W. 94th Street	372884	3757586	24 hours	7/1/2015 12:00	7/2/2015 12:00	66.1	67.6	69.1	70.0
5431 W. 98th Street	Northwest corner of Isis Avenue & W. 98th Street	372728	3757236	24 hours	7/9/2015 12:00	7/10/2015 12:00	62.8	63.8	66.8	67.3
5450 W. 99th Place	South side of W. 99th Place	372750	3757058	24 hours	7/1/2015 10:00	7/2/2015 10:00	60.1	61.3	64.2	64.7
9312 Glasgow Place	Northeast corner of Glasgow Place & 93rd Street	373275	3757646	24 hours	7/1/2015 11:00	7/2/2015 11:00	66.0	67.5	69.1	69.9
9714 Glasgow Place	North of 9714 Glasgow Place	373267	3757280	24-hour	7/1/2015 11:00	7/2/2015 11:00	60.3	61.8	63.4	64.4
9846 Glasgow Place	Northeast corner of Hindry Avenue & Glasgow Place	373111	3757060	24 hours	7/1/2015 11:00	7/2/2015 11:00	58.7	60.2	61.9	62.7
700 W. Arbor Vitae Street	Southwest corner of Arbor Vitae Street & Ash Avenue	373590	3757745	24 hours	7/16/2015 8:00	7/17/2015 8:00	65.3	66.5	69.4	69.8

NOTES:

1/ Survey points are the closest building address to the measurement location.

2/ Leq (daytime): 7:00 AM to 10:00 PM.

3/ Ldn: 10 dBA penalty for noise between 10:00 PM and 7:00 AM

4/ CNEL: 5 dBA penalty for noise between 7:00 PM and 10:00 PM, and 10 dBA penalty for noise between 10:00 PM and 7:00 AM.

5/ Two peak-hour measurements at the Concourse Hotel were supplemented due to technical complications with the 24-hour measurement.

SOURCE: Meridian Consultants, LLC, August 2016.

PREPARED BY: Meridian Consultants, LLC, August 2016.

This area is characterized by heavy traffic traveling into and out of the LAX CTA, as well as by frequent air traffic. The lowest 24-hour (Leq) and CNEL noise levels were both recorded at 5507 W. 98th Street, on the northeast corner of Hindry Avenue and Glasgow Place.

The highest single-hour measurement was collected at the Concourse Hotel at the intersection of W. Century Boulevard and Sepulveda Boulevard; this was the closest survey location to the LAX CTA.

J.1.5 SUMMARY

Field measurements of ambient noise levels were conducted to establish existing (ambient) noise conditions in the Proposed Project Area. The measurement locations in the Proposed Project Area were selected based on proximity to future construction activities and land use types.

Results of the noise survey were used to model anticipated levels of noise that would be generated by construction and operation of various components of the Proposed Action Alternative, relying on methodologies outlined by the FTA transit impacts guidance document.

J.2 Road Traffic Noise Model

J.2.1 INTRODUCTION

Analysis of measured traffic volumes on road segments identified within the traffic study area was conducted to derive modeled estimates of existing road traffic noise levels from turning movement counts.

J.2.2 PURPOSE OF DATA CONVERSION

Raju Associates evaluated an extensive network of roadway intersections to be assessed for increases in traffic volumes as a result of Proposed Action Alternative implementation. The intersections decided upon represented those near future Proposed Action Alternative components and less proximal sensitive receptors that may be subjected to increased ambient roadway traffic noise. A total of 70 intersections were identified by Raju Associates; these intersections are identified and numbered on **Figure J-3**. At each intersection, turning movements were recorded during morning and evening peak traffic hours. Conversion of the collected turning movement data into estimated road traffic noise levels was performed using the Federal Highway Administration (FHWA) Traffic Noise Model (TNM) methodology.

Increases in vehicular traffic volumes can produce increases in noise levels at sensitive receptors along surface streets. The components of the Proposed Action Alternative are geographically confined to the area depicted on Figure J-1. However, the reconfiguration of local traffic circulation would have effects on roadway traffic that extend beyond the immediate vicinity of the Proposed Action Alternative components. Additionally, regional growth in the Los Angeles area, in combination with anticipated increases in ridership at LAX, will produce more cars on the roads in the Proposed Action Alternative vicinity and in the greater regional area shown on Figure J-3.

[DRAFT]

The process of assessing potential road traffic noise impacts that would be generated by implementation of the Proposed Action Alternative requires that estimates of current road traffic noise levels be prepared to establish existing conditions as a baseline for noise impact analyses.

[Preliminary Draft for Discussion Purposes Only]

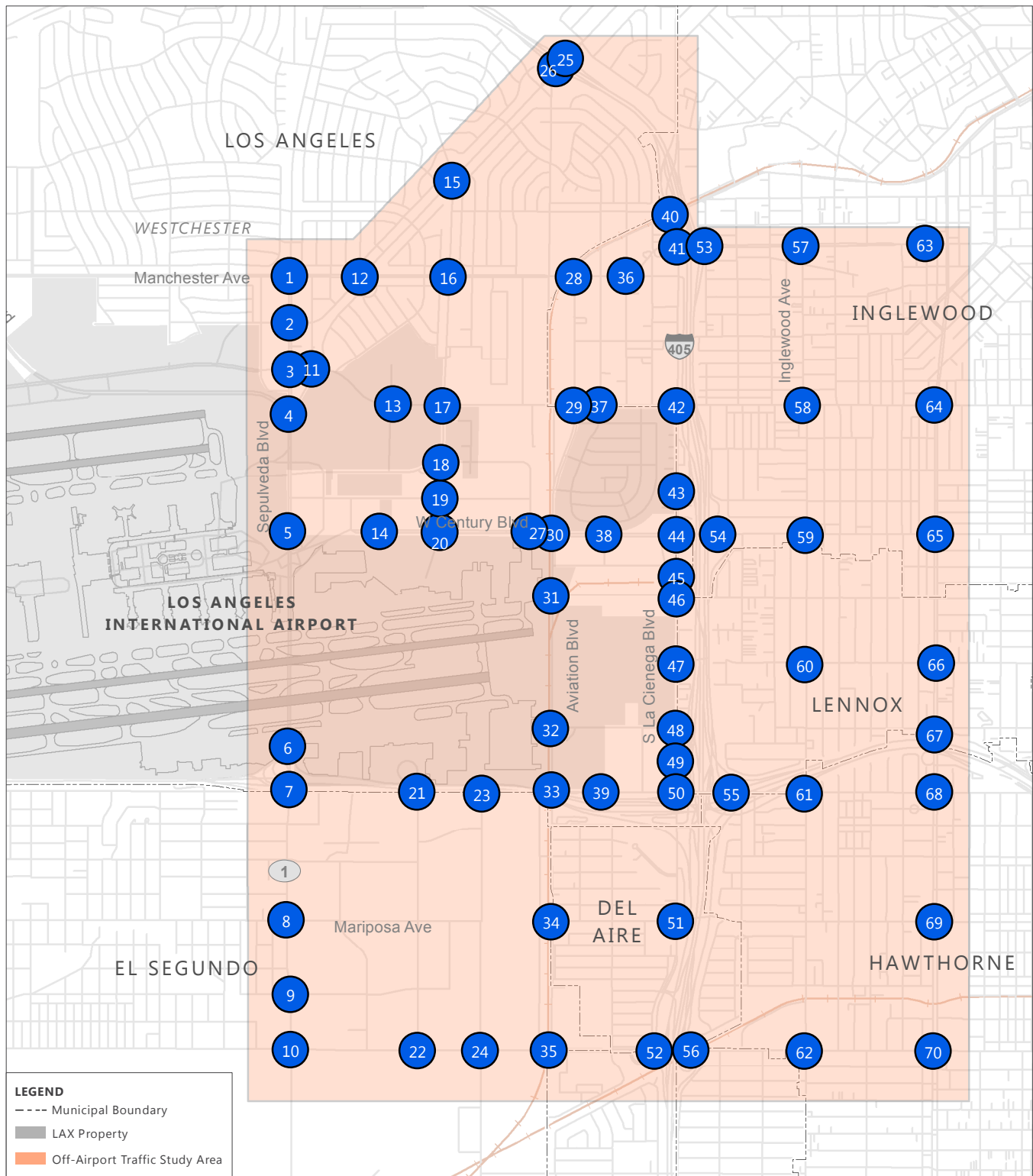


FIGURE J-3



0 3,000 ft.

Off-Airport Traffic Study Area and Intersections

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J.2.3 TRAFFIC TURNING MOVEMENT SPREADSHEET CONVERSION METHODOLOGY

The traffic turning movement counts were used to calculate estimates of average daily traffic (ADT) volumes on the roadway segments between traffic study intersections. Those ADT values were subsequently input into the FHWA road traffic noise model.

The turning movement counts collected at intersections included in the traffic study area were used to estimate existing noise levels generated by traffic along the roadway segments connecting the intersections. Spreadsheets were prepared using data from the level-of-service (LOS) worksheets provided by Raju Associates¹⁰ to calculate ADT based on the number of vehicles recorded during peak afternoon (p.m.) traffic conditions.

For all directions at each intersection, the number of cars recorded entering and leaving the adjacent roadway segments during the p.m. peak hour was summed to estimate the p.m. peak-hour traffic volume on that stretch of road. Per guidance from Raju Associates, it was assumed that p.m. peak-hour turning movements represented 8 percent (%) of the total daily traffic on the roads. The p.m. peak-hour traffic value was multiplied by a scaling factor of 12 to arrive at an approximation of the ADT for each segment. ADT values were calculated for the intersections at both ends of each roadway segment.

The FHWA originally devised its Highway Traffic Noise Prediction Model (HTNPM, FHWA-RD-77-108)¹¹ in the 1970s. This noise prediction model was the preferred tool for roadway traffic noise prediction for multiple decades until the release of the FHWA TNM 1.0 model in 1998. The FHWA HTNPM methodology provides a simple interface through which road traffic noise levels can be estimated from ADT values using spreadsheets that take into account vehicle fleet mix, proximity of sensitive receptors, and roadway parameters, including speed limit, number of lanes, and median width.

The FHWA HTNPM methodology was used to approximate existing noise levels at sensitive receptors placed along the edge of the street segments between the traffic study intersections. The model uses logarithmic equations to calculate predicted noise levels based on total vehicle counts, fleet mix composition of passenger vehicles, medium trucks, and heavy trucks, as well as physical parameters defining the distance to the nearest sensitive receptor. The model calculates noise associated with a specific line source, and the results characterize noise generated by motor vehicle traffic along the specific roadway segment. The road segments of interest were determined by examining the distance between the intersections and the similarity in the estimated ADT volumes and modeled noise levels along the edge of the roads. Refined road traffic noise modeling will be conducted at representative locations expected to experience the greatest increases in ADT.

¹⁰ Raju Associates, Inc., *Draft Transportation Study for the Landside Access Modernization Program DEIR*, July 2016.

¹¹ U.S. Department of Transportation Federal Highway Administration, *Traffic Noise Model*, http://www.fhwa.dot.gov/environment/noise/traffic_noise_model/.

J.2.4 PROPOSED PROJECT AREA TRAFFIC NOISE MODELING

Roadway modeling of existing (2015), intermediate phase (Year 2024), Proposed Action Alternative build-out (Year 2030), and future operational year (2035) vehicular noise levels along individual roadway segments within the Proposed Project Area was completed using the SoundPLAN noise modeling software in combination with FHWA TNM. The Proposed Project Area includes roadway segments west of the I-405 and east of the airport between Westchester Parkway/W. Arbor Vitae Street and Imperial Highway, as shown on Figure J-1. Traffic volume and road parameter data were exported from the SoundPLAN noise contour visualization software to the TNM model, which is the road traffic noise model preferred by the California Department of Transportation (Caltrans). The TNM model calculates the average noise levels at specific locations based on nearby roadway traffic volumes, average vehicle speeds, roadway geometry, and physical site conditions.

Proposed Action Alternative traffic generation estimates from Raju Associates were incorporated into the model. The ADT volume was used to calculate the noise level along each roadway segment. Hard (e.g., paved) and soft (e.g., landscaped) surface conditions were used to determine noise contours and potential noise effects that would occur along the roadways near the Proposed Action Alternative site.

Results of the TNM modeling on roadway segments for existing (2015), construction phase (2024), build-out (2030), and operational year (2035) in the Proposed Project Area are presented in **Tables J-5, J-6, J-7, and J-8**. The modeled noise levels shown are the peak hour roadway noise levels calculated by the model for sensitive receptors assumed to be located adjacent to the street.

[DRAFT]

Table J-5 (1 of 2): Existing (2015) Modeled Peak Hour Roadway Noise Levels

STUDY INTERSECTION	ROADWAY SEGMENT	MAXIMUM AVERAGE DAILY TRIPS	2015 PEAK HOUR (DBA)
<i>Sepulveda Boulevard</i>			
2	South of La Tijera Boulevard	32,448	64.7
3	North of Westchester Parkway	35,767	65.1
3	South of Westchester Parkway	36,942	68.7
4	North of Lincoln Boulevard	31,478	66.3
4	South of Lincoln Boulevard	31,179	69.6
5	North of Century Boulevard	63,049	76.9
5	South of Century Boulevard	64,904	77.0
6	North of I-105 Westbound Ramps	81,604	78.0
6	South of I-105 Westbound Ramps	55,282	76.3
7	North of Imperial Highway	54,555	76.3
<i>Westchester Parkway</i>			
3	East of Sepulveda Boulevard	12,158	60.4
11	West of Sepulveda Eastway	13,156	60.2
11	East of Sepulveda Eastway	16,289	61.7
13	West of Jenny Avenue	13,184	60.8
13	East of Jenny Avenue	15,021	61.4
17	West of Airport Boulevard	15,385	61.5
<i>Arbor Vitae Street</i>			
17	East of Airport Boulevard	16,233	61.7
29	West of Aviation Boulevard	17,165	61.5
29	East of Aviation Boulevard	14,797	64.7
37	West of Isis Avenue	14,676	64.7
37	East of Isis Avenue	14,434	64.6
42	West of La Cienega Boulevard	13,287	64.3
<i>Airport Boulevard</i>			
17	South of Westchester Parkway	20,196	62.6
18	North of 96th Street	18,648	65.8
18	South of 96th Street	17,110	65.4
19	North of 98th Street	18,033	65.6
19	South of 98th Street	16,420	63.5
20	North of Century Boulevard	16,485	63.5
<i>Aviation Boulevard</i>			
29	South of Arbor Vitae Street	15,524	70.8
30	North of Century Boulevard	13,371	70.2
30	South of Century Boulevard	18,909	67.5
31	North of 104th Street	19,524	67.5
31	South of 104th Street	21,296	67.9
32	North of 111th Street	21,482	68.0
32	South of 111th Street	20,793	67.8
33	North of Imperial Highway	20,718	67.8

[DRAFT]

Table J-5 (2 of 2): Existing (2015) Modeled Peak Hour Roadway Noise Levels

STUDY INTERSECTION	ROADWAY SEGMENT	MAXIMUM AVERAGE DAILY TRIPS	2015 PEAK HOUR (DBA)
<i>La Cienega Boulevard</i>			
42	South of Arbor Vitae Street	16,615	61.8
43	North of I-405 Southbound Ramps	16,270	61.7
43	South of I-405 Southbound Ramps	19,133	67.5
44	North of Century Boulevard	21,082	61.1
44	South of Century Boulevard	21,082	61.1
45	North of I-405 Southbound Ramps	22,573	61.4
45	South of I-405 Southbound Ramps	16,317	60.0
46	North of 104th Street	16,186	60.0
46	South of 104th Street	17,296	60.3
47	North of Lennox Boulevard	16,960	60.2
47	South of Lennox Boulevard	21,296	60.2
48	North of 111th Street	21,482	60.2
48	South of 111th Street	18,070	60.4
49	North of I-405 Southbound Ramps	17,203	60.2
49	South of I-405 Southbound Ramps	18,070	60.4
50	North of Imperial Highway	14,620	66.3
<i>Century Boulevard</i>			
14	East of Avion Drive	24,988	67.0
20	West of Airport Boulevard	30,620	67.8
20	East of Airport Boulevard	32,448	68.2
27	West of Bellanca Avenue	31,506	62.9
27	East of Bellanca Avenue	35,897	68.6
30	West of Aviation Boulevard	38,406	68.9
30	East of Aviation Boulevard	32,401	66.4
38	West of Concourse Way	27,273	67.4
38	East of Concourse Way	27,273	67.6
44	West of La Cienega Boulevard	26,340	63.8
<i>Lincoln Boulevard</i>			
4	North of Sepulveda Boulevard	19,972	72.6
<i>111th Street</i>			
32	East of Aviation Boulevard	2,191	53.1
48	West of La Cienega Boulevard	522	45.1
<i>104th Street</i>			
31	East of Aviation Boulevard	1,911	50.6
46	West of La Cienega Boulevard	4,056	53.9

SOURCE: Meridian Consultants, February 2017.

PREPARED BY: Ricondo & Associates, Inc., February 2017.

[DRAFT]

Table J-6 (1 of 2): Future (2024) Modeled Peak Hour Roadway Noise Levels

STUDY INTERSECTION	ROADWAY SEGMENT	NO ACTION ALTERNATIVE (DBA)	PROPOSED ACTION ALTERNATIVE (DBA)	COMPARISON OF PROPOSED ACTION TO NO ACTION (DBA)
<i>Sepulveda Boulevard</i>				
62	South of La Tijera Boulevard	65.4	65.3	-0.1
63	North of Westchester Parkway	65.8	65.6	-0.2
63	South of Westchester Parkway	69.4	69.2	-0.2
64	North of Lincoln Boulevard	66.6	66.8	0.2
64	South of Lincoln Boulevard	72.1	72.2	0.1
65	North of Century Boulevard	77.5	77.1	-0.4
65	South of Century Boulevard	77.3	77.2	-0.1
66	North of I-105 Westbound Ramps	78.3	78.2	-0.1
66	South of I-105 Westbound Ramps	76.0	75.8	-0.2
67	North of Imperial Highway	76.5	76.3	-0.2
<i>Westchester Parkway</i>				
63	East of Sepulveda Boulevard	61.3	61.3	0.0
75	West of Sepulveda Eastway	61.6	61.6	0.0
75	East of Sepulveda Eastway	62.4	62.5	0.1
77	West of Jenny Avenue	61.8	62.8	1.0
77	East of Jenny Avenue	62.3	62.8	0.5
81	West of Airport Boulevard	62.4	62.9	0.5
<i>Arbor Vitae Street</i>				
81	East of Airport Boulevard	63.0	63.0	0.0
93	West of Aviation Boulevard	63.2	62.9	-0.3
93	East of Aviation Boulevard	65.6	65.2	-0.4
102	West of Isis Avenue	65.6	65.3	-0.3
102	East of Isis Avenue	65.5	65.8	0.3
117	West of La Cienega Boulevard	64.8	66.4	1.6
<i>Airport Boulevard</i>				
81	South of Westchester Parkway	63.7	63.1	-0.6
82	North of 96th Street	66.8	66.3	-0.5
82	South of 96th Street	65.5	66.4	0.9
83	North of 98th Street	65.7	66.5	0.8
83	South of 98th Street	63.7	64.0	0.3
84	North of Century Boulevard	63.7	64.0	0.3
<i>Aviation Boulevard</i>				
93	South of Arbor Vitae Street	71.3	72.9	1.6
94	North of Century Boulevard	70.7	72.7	2.0
94	South of Century Boulevard	68.6	68.9	0.3
95	North of 104th Street	68.7	69.0	0.3
95	South of 104th Street	68.9	69.4	0.5
96	North of 111th Street	68.6	69.1	0.5
96	South of 111th Street	68.7	67.2	-1.5
97	North of Imperial Highway	68.7	67.1	-1.6

[DRAFT]

Table J-6 (2 of 2): Future (2024) Peak Hour Roadway Noise Levels

STUDY INTERSECTION	ROADWAY SEGMENT	NO ACTION ALTERNATIVE (DBA)	PROPOSED ACTION ALTERNATIVE (DBA)	COMPARISON OF PROPOSED ACTION TO NO ACTION (DBA)
<i>La Cienega Boulevard</i>				
117	South of Arbor Vitae Street	62.6	62.3	-0.3
118	North of I-405 Southbound Ramps	62.9	62.6	-0.3
118	South of I-405 Southbound Ramps	68.7	68.4	-0.3
119	North of Century Boulevard	61.9	61.5	-0.4
119	South of Century Boulevard	61.9	61.8	-0.1
120	North of I-405 Southbound Ramps	62.1	62.1	0.0
120	South of I-405 Southbound Ramps	61.0	61.3	0.3
121	North of 104th Street	61.0	61.3	0.3
121	South of 104th Street	61.3	61.4	0.1
122	North of Lennox Boulevard	61.2	61.4	0.2
122	South of Lennox Boulevard	61.2	61.5	0.3
123	North of 111th Street	61.2	61.5	0.3
123	South of 111th Street	61.4	61.2	-0.2
124	North of I-405 Southbound Ramps	61.5	61.3	-0.2
124	South of I-405 Southbound Ramps	61.5	61.1	-0.4
125	North of Imperial Highway	67.6	67.1	-0.5
<i>Century Boulevard</i>				
78	East of Avion Drive	69.7	69.4	-0.3
84	West of Airport Boulevard	69.6	69.4	-0.2
84	East of Airport Boulevard	69.8	67.7	-2.1
91	West of Bellanca Avenue	69.9	69.6	-0.3
91	East of Bellanca Avenue	70.3	69.7	-0.6
94	West of Aviation Boulevard	70.4	69.7	-0.7
94	East of Aviation Boulevard	67.6	66.4	-1.2
103	West of Concourse Way	68.9	67.4	-1.5
103	East of Concourse Way	69.0	68.9	-0.1
119	West of La Cienega Boulevard	65.5	65.2	-0.3
<i>Lincoln Boulevard</i>				
23	South of La Tijera Boulevard	73.0	73.2	0.2
64	North of Sepulveda Boulevard	72.9	73.1	0.2
<i>111th Street</i>				
96	East of Aviation Boulevard	58.6	59.9	1.3
123	West of La Cienega Boulevard	56.1	55.1	-1.0
<i>104th Street</i>				
95	East of Aviation Boulevard	54.1	52.6	-1.5
121	West of La Cienega Boulevard	55.7	55.2	-0.5

NOTE: Values in **BOLD** approach or exceed the Caltrans Activity Category E threshold of 72 dBA.

SOURCE: Meridian Consultants, February 2017.

PREPARED BY: Ricondo & Associates, Inc., February 2017.

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Table J-7 (1 of 2): Future (2030) Modeled Peak Hour Roadway Noise Levels

STUDY INTERSECTION	ROADWAY SEGMENT	NO ACTION ALTERNATIVE (DBA)	PROPOSED ACTION ALTERNATIVE (DBA)	COMPARISON OF PROPOSED ACTION TO NO ACTION (DBA)
<i>Sepulveda Boulevard</i>				
62	South of La Tijera Boulevard	65.6	65.4	-0.2
63	North of Westchester Parkway	66.0	65.8	-0.2
63	South of Westchester Parkway	69.5	69.3	-0.2
64	North of Lincoln Boulevard	66.6	66.8	0.2
64	South of Lincoln Boulevard	70.0	70.2	0.2
65	North of Century Boulevard	77.7	77.3	-0.4
65	South of Century Boulevard	77.4	77.2	-0.2
66	North of I-105 Westbound Ramps	78.4	78.2	-0.2
66	South of I-105 Westbound Ramps	76.0	75.9	-0.1
67	North of Imperial Highway	76.5	76.4	-0.1
<i>Westchester Parkway</i>				
63	East of Sepulveda Boulevard	61.5	61.5	0.0
75	West of Sepulveda Eastway	61.8	62.3	0.5
75	East of Sepulveda Eastway	62.7	62.7	0.0
77	West of Jenny Avenue	62.1	63.7	1.6
77	East of Jenny Avenue	62.5	63.8	1.3
81	West of Airport Boulevard	62.6	63.8	1.2
<i>Arbor Vitae Street</i>				
81	East of Airport Boulevard	63.3	63.4	0.1
93	West of Aviation Boulevard	63.6	63.4	-0.2
93	East of Aviation Boulevard	66.0	65.9	-0.1
102	West of Isis Avenue	65.7	66.1	0.4
102	East of Isis Avenue	65.7	67.1	1.4
117	West of La Cienega Boulevard	65.3	66.7	1.4
<i>Airport Boulevard</i>				
81	South of Westchester Parkway	64.1	63.0	-1.1
82	North of 96th Street	67.2	66.2	-1.0
82	South of 96th Street	66.0	65.5	-0.5
83	North of 98th Street	66.1	65.6	-0.5
83	South of 98th Street	64.4	63.7	-0.7
84	North of Century Boulevard	64.6	63.9	-0.7
<i>Aviation Boulevard</i>				
93	South of Arbor Vitae Street	71.7	72.7	1.0
94	North of Century Boulevard	71.2	72.7	1.5
94	South of Century Boulevard	68.7	69.3	0.6
95	North of 104th Street	68.7	69.4	0.7
95	South of 104th Street	68.9	69.6	0.7
96	North of 111th Street	68.9	69.6	0.7
96	South of 111th Street	69.0	67.9	-1.1
97	North of Imperial Highway	69.0	67.8	-1.2

[DRAFT]

Table J-7 (2 of 2): Future (2030) Modeled Peak Hour Roadway Noise Levels

STUDY INTERSECTION	ROADWAY SEGMENT	NO ACTION ALTERNATIVE (DBA)	PROPOSED ACTION ALTERNATIVE (DBA)	COMPARISON OF PROPOSED ACTION TO NO ACTION (DBA)
<i>La Cienega Boulevard</i>				
117	South of Arbor Vitae Street	62.8	63.2	0.4
118	North of I-405 Southbound Ramps	63.0	63.5	0.5
118	South of I-405 Southbound Ramps	68.9	68.7	-0.2
119	North of Century Boulevard	62.0	62.0	0.0
119	South of Century Boulevard	62.2	62.7	0.5
120	North of I-405 Southbound Ramps	62.5	62.9	0.4
120	South of I-405 Southbound Ramps	61.4	62.3	0.9
121	North of 104th Street	61.3	62.3	1.0
121	South of 104th Street	61.6	62.5	0.9
122	North of Lennox Boulevard	61.5	62.4	0.9
122	South of Lennox Boulevard	61.5	62.4	0.9
123	North of 111th Street	61.5	62.4	0.9
123	South of 111th Street	61.7	62.2	0.5
124	North of I-405 Southbound Ramps	61.7	62.3	0.6
124	South of I-405 Southbound Ramps	61.7	62.1	0.4
125	North of Imperial Highway	67.8	68.3	0.5
<i>Century Boulevard</i>				
78	East of Avion Drive	70.1	69.0	-1.1
84	West of Airport Boulevard	69.9	69.0	-0.9
84	East of Airport Boulevard	69.8	68.5	-1.3
91	West of Bellanca Avenue	70.2	69.5	-0.7
91	East of Bellanca Avenue	70.6	69.9	-0.7
94	West of Aviation Boulevard	70.6	69.9	-0.7
94	East of Aviation Boulevard	67.9	67.3	-0.6
103	West of Concourse Way	69.2	68.5	-0.7
103	East of Concourse Way	69.3	69.1	-0.2
119	West of La Cienega Boulevard	66.2	65.7	-0.5
<i>Lincoln Boulevard</i>				
23	South of La Tijera Boulevard	72.9	73.1	0.2
64	North of Sepulveda Boulevard			
<i>111th Street</i>				
96	East of Aviation Boulevard	60.4	60.3	-0.1
123	West of La Cienega Boulevard	56.8	56.7	-0.1
<i>104th Street</i>				
95	East of Aviation Boulevard	56.0	54.3	-1.7
121	West of La Cienega Boulevard	62.8	63.2	0.4

NOTE: Values in **BOLD** approach or exceed the Caltrans Activity Category E threshold of 72 dBA.

SOURCE: Meridian Consultants, February 2017.

PREPARED BY: Ricondo & Associates, Inc., February 2017.

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Table J-8 (1 of 2): Future (2035) Modeled Peak Hour Roadway Noise Levels

STUDY INTERSECTION	ROADWAY SEGMENT	NO ACTION ALTERNATIVE (DBA)	PROPOSED ACTION ALTERNATIVE (DBA)	COMPARISON OF PROPOSED ACTION TO NO ACTION (DBA)
<i>Sepulveda Boulevard</i>				
62	South of La Tijera Boulevard	65.7	65.5	-0.2
63	North of Westchester Parkway	66.0	65.8	-0.2
63	South of Westchester Parkway	69.5	69.4	-0.1
64	North of Lincoln Boulevard	66.7	66.9	0.2
64	South of Lincoln Boulevard	70.0	70.2	0.2
65	North of Century Boulevard	77.7	77.3	-0.4
65	South of Century Boulevard	77.4	77.4	0.0
66	North of I-105 Westbound Ramps	78.4	78.2	-0.2
66	South of I-105 Westbound Ramps	76.1	75.9	-0.2
67	North of Imperial Highway	76.5	76.5	0.0
<i>Westchester Parkway</i>				
63	East of Sepulveda Boulevard	61.7	61.7	0.0
75	West of Sepulveda Eastway	61.9	61.9	0.0
75	East of Sepulveda Eastway	62.9	62.9	0.0
77	West of Jenny Avenue	62.3	63.8	1.5
77	East of Jenny Avenue	62.6	63.9	1.3
81	West of Airport Boulevard	62.6	63.9	1.3
<i>Arbor Vitae Street</i>				
81	East of Airport Boulevard	63.4	63.5	0.1
93	West of Aviation Boulevard	63.7	63.5	-0.2
93	East of Aviation Boulevard	66.2	65.9	-0.3
102	West of Isis Avenue	66.2	66.0	-0.2
102	East of Isis Avenue	66.1	66.6	0.5
117	West of La Cienega Boulevard	65.4	67.1	1.7
<i>Airport Boulevard</i>				
81	South of Westchester Parkway	64.2	63.4	-0.8
82	North of 96th Street	67.3	66.3	-1.0
82	South of 96th Street	66.2	65.3	-0.9
83	North of 98th Street	66.3	65.5	-0.8
83	South of 98th Street	64.2	63.3	-0.9
84	North of Century Boulevard	64.4	63.1	-1.3
<i>Aviation Boulevard</i>				
93	South of Arbor Vitae Street	71.8	73.0	1.2
94	North of Century Boulevard	71.3	73.6	2.3
94	South of Century Boulevard	68.7	69.5	0.8
95	North of 104th Street	68.7	69.4	0.7
95	South of 104th Street	69.0	69.8	0.8
96	North of 111th Street	68.9	69.4	0.5
96	South of 111th Street	69.1	67.4	-1.7
97	North of Imperial Highway	69.1	67.8	-1.3

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Table J-8 (2 of 2): Future (2035) Modeled Peak Hour Roadway Noise Levels

STUDY INTERSECTION	ROADWAY SEGMENT	NO ACTION ALTERNATIVE (DBA)	PROPOSED ACTION ALTERNATIVE (DBA)	COMPARISON OF PROPOSED ACTION TO NO ACTION (DBA)
<i>La Cienega Boulevard</i>				
117	South of Arbor Vitae Street	62.7	62.7	0.0
118	North of I-405 Southbound Ramps	63.0	62.9	-0.1
118	South of I-405 Southbound Ramps	68.9	68.5	-0.4
119	North of Century Boulevard	62.0	61.8	-0.2
119	South of Century Boulevard	62.3	62.2	-0.1
120	North of I-405 Southbound Ramps	62.6	62.5	-0.1
120	South of I-405 Southbound Ramps	61.5	61.7	0.2
121	North of 104th Street	61.5	61.7	0.2
121	South of 104th Street	61.7	61.9	0.2
122	North of Lennox Boulevard	61.7	61.9	0.2
122	South of Lennox Boulevard	61.7	61.9	0.2
123	North of 111th Street	61.7	61.9	0.2
123	South of 111th Street	61.8	61.6	-0.2
124	North of I-405 Southbound Ramps	61.8	61.7	-0.1
124	South of I-405 Southbound Ramps	61.8	61.4	-0.4
125	North of Imperial Highway	68.0	67.5	-0.5
<i>Century Boulevard</i>				
78	East of Avion Drive	70.2	69.2	-1.0
84	West of Airport Boulevard	69.9	69.2	-0.7
84	East of Airport Boulevard	70.2	68.3	-1.9
91	West of Bellanca Avenue	70.1	70.2	0.1
91	East of Bellanca Avenue	70.6	70.2	-0.4
94	West of Aviation Boulevard	70.6	70.1	-0.5
94	East of Aviation Boulevard	68.0	67.0	-1.0
103	West of Concourse Way	69.3	68.1	-1.2
103	East of Concourse Way	69.4	69.3	-0.1
119	West of La Cienega Boulevard	66.4	65.9	-0.5
<i>Lincoln Boulevard</i>				
23	South of La Tijera Boulevard	73.1	73.3	0.2
64	North of Sepulveda Boulevard	73.0	73.2	0.2
<i>111th Street</i>				
96	East of Aviation Boulevard	60.3	60.5	0.2
123	West of La Cienega Boulevard	57.2	56.7	-0.5
<i>104th Street</i>				
95	East of Aviation Boulevard	55.4	53.3	-2.1
121	West of La Cienega Boulevard	56.3	55.7	-0.6

NOTE: Values in **BOLD** approach or exceed the Caltrans Activity Category E threshold of 72 dBA.

SOURCE: Meridian Consultants, February 2017.

PREPARED BY: Ricondo & Associates, Inc., February 2017.

J.3 Transit Noise

J.3.1 INTRODUCTION

The Proposed Action Alternative includes the development of a proposed APM system that would extend for approximately 2.25 miles, starting at the CTA and extending to the future proposed CONRAC that would be situated adjacent to the I-405. Noise associated with operation of the APM was estimated based on the noise monitoring conducted for the Proposed Action Alternative (see Section J.1).

J.3.2 TRANSIT NOISE METHODOLOGY

Potential operational transit noise levels of the Proposed Action Alternative were calculated with the computer noise model SoundPLAN, which generates computer simulations of noise propagation from sources such as rail noise. Rail noise emissions were modelled according to the industry standard rail noise prediction methodologies adopted by the Federal Railroad Administration (FRA). The FRA noise prediction model calculates an A-weighted noise level at a receiver location through direct propagation or taking into account shielding provided by barriers.

The terrain for the Proposed Action Alternative site is relatively flat and the top-of-rail elevation ranges from approximately 70 feet above grade within the CTA, to approximately 50 feet above grade near the ITF East and CONRAC.

Train lengths are expected to be approximately 175 to 185 feet long and could consist of anywhere between 2 to 4 (or potentially 5) cars depending on the technology/operating system supplier. Trains would operate on traction power with no overhead catenary.¹² Based on the geometry (including station spacing) of the APM guideway, the maximum practical speed would be approximately 45 miles per hour (mph). The maximum round trip time (with dwell at each station) is approximately 1200 seconds, or 20 minutes. Based on this, with an approximately 4.3-mile-long round trip distance, the average speed is approximately 13 to 15 mph (when station dwell times are included), or approximately 18-20 mph (not including station dwell times). For station approaches, it was assumed that the train approach and departure speed would be approximately 10 to 15 mph. Furthermore, this means the train is cruising at practical maximum speeds and decelerates upon approach to station, with a zero speed at its berthing location. Station dwells are estimated to be no less than 25 seconds for purposes of computing the round trip times and fleet sizing/capacities (and may be permitted to vary with the technology door configuration/sizes during operations). The estimate dwelling times for each station are as follows: West CTA APM Station = 45 seconds; Center CTA APM Station = 25 seconds; East CTA APM Station = 30 seconds; ITF West APM Station = 35 seconds; ITF East APM Station = 25 seconds; and CONRAC APM Station = 45 seconds.

¹² A catenary is a system of overhead wires used to supply electricity to a locomotive, streetcar, or light rail vehicle which is equipped with a pantograph.

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Appendix K

On-Airport Traffic



Table of Contents

Appendix K.	On-Airport Traffic.....	K-1
K.1	Introduction.....	K-1
K.2	Methodology.....	K-2
K.2.1	CTA INTERSECTION ANALYSIS	K-2
K.2.2	CTA ROADWAY ANALYSIS.....	K-2
K.2.3	DESCRIPTION OF EXISTING (2014) TRAFFIC CONDITIONS.....	K-3
K.2.4	VEHICLE TRIP GENERATION AND DISTRIBUTION MODEL	K-3
K.2.5	DESCRIPTION OF FUTURE (2024) TRAFFIC CONDITIONS.....	K-5
K.2.6	DESCRIPTION OF FUTURE (2030/2035) TRAFFIC CONDITIONS.....	K-6
K.2.7	DETERMINATION OF FUTURE (2024 AND 2030/2035) TRAFFIC VOLUMES.....	K-6
K.2.8	DESCRIPTION OF IMPACTS	K-7
K.3	Existing Conditions.....	K-8
K.3.1	TRAFFIC ANALYSIS STUDY AREA	K-8
K.3.2	ON-AIRPORT LANDSIDE FACILITIES	K-11
K.3.3	PEAK MONTH ACTIVITY.....	K-11
K.3.4	DATA COLLECTION AND DATA SOURCES.....	K-11
K.3.5	TRAFFIC ANALYSIS PEAK HOURS	K-17
K.3.6	VEHICLE TRIP GENERATION AND DISTRIBUTION MODEL	K-19
K.4	Analysis of Existing Conditions	K-19
K.4.1	CTA INTERSECTION EXISTING CONDITIONS.....	K-19
K.4.2	CTA ROADWAY EXISTING CONDITIONS.....	K-21
K.5	Thresholds of Significance	K-24
K.6	On-Airport Transportation System Improvements	K-24
K.7	Project-Related Improvements	K-25
K.8	Future (2024) Traffic Conditions	K-31
K.8.1	DETERMINATION OF 2024 ANALYSIS PEAK HOURS.....	K-31
K.8.2	DETERMINATION OF FUTURE (2024) TRAFFIC VOLUMES	K-32
K.9	Future (2030/2035) Traffic Conditions.....	K-34
K.9.1	DETERMINATION OF 2030/2035 ANALYSIS PEAK HOURS.....	K-34
K.9.2	DETERMINATION OF FUTURE (2030/2035) TRAFFIC VOLUMES	K-38

K.10	Evaluation of Traffic Conditions for Future Conditions and Impact Analysis.....	K-38
K.10.1	PHASE 1 (2024) CTA INTERSECTION ANALYSIS	K-38
K.10.2	PHASE 2 (2030/2035) CTA INTERSECTION ANALYSIS	K-40
K.10.3	PHASE 1 (2024) CTA ROADWAY ANALYSIS	K-42
K.10.4	PHASE 2 (2030/2035) CTA ROADWAY ANALYSIS	K-43
K.10.5	ROADWAY LINK ANALYSIS RESULTS	K-44
K.11	Conclusions.....	K-44

List of Attachments

Attachment K.1	Traffic Counts
Attachment K.2	Traffic Analysis Worksheets
Attachment K.3	LAWA-Provided Data

List of Tables

Table K-1:	Existing (2014) CTA Passenger Mode Splits and Vehicle Occupancies	K-5
Table K-2:	CTA Average Daily Traffic Volumes.....	K-12
Table K-3:	Summary of Existing Conditions (2014) Airport Peak Hours	K-19
Table K-4:	Level of Service Definitions for Signalized Intersections.....	K-20
Table K-5:	Peak Hour CTA Signalized Intersection Turning Movement Volumes and Level of Service Analysis - Existing (2014) Conditions.....	K-20
Table K-6:	Roadway Level of Service and Volume to Capacity (V/C) Ratio Ranges	K-22
Table K-7:	Peak Hour CTA Roadway Volumes and Level of Service Analysis - Existing (2014) Conditions.....	K-23
Table K-8:	Future (2024) Mode Share – Departing Passengers.....	K-33
Table K-9:	Future (2024) Mode Share – Arriving Passengers	K-34
Table K-10:	Future (2030/2035) Mode Share – Departing Passengers.....	K-36
Table K-11:	Future (2030/2035) Mode Share – Arriving Passengers	K-37
Table K-12:	Peak Hour CTA Signalized Intersection Turning Movement Volumes and Level of Service Analysis - Future (2024) Conditions.....	K-39

Table K-13: Peak Hour CTA Signalized Intersection Turning Movement Volumes and Level of Service Analysis - Future (2030/2035) Conditions.....	K-41
Table K-14: Peak Hour CTA Roadway Volumes and Level of Service Analysis - Future (2024) Conditions	K-42
Table K-15: Peak Hour CTA Roadway Volumes and Level of Service Analysis - Future (2030/2035) Conditions.....	K-43

List of Exhibits

Figure K-1: On-Airport Traffic Analysis Study Area	K-9
Figure K-2: CTA Data Collection Locations, Departures Level.....	K-13
Figure K-3: CTA Data Collection Locations, Arrivals Level	K-15
Figure K-4: Existing (2014) Rolling Hour Departure and Arrival Passengers Volumes	K-18
Figure K-5: Curbside Roadway Throughput Capacity as a Function of Curbside Utilization.....	K-22
Figure K-6: Roadway Improvements Phase 1 (2024)	K-27
Figure K-7: Roadway Improvements Phase 2 (2030/2035).....	K-29
Figure K-8: Future (2024) Rolling Hour Departure and Arrival Passengers Volumes.....	K-32
Figure K-9: Future (2030/2035) Rolling Hour Departure and Arrival Passengers Volumes.....	K-35

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Appendix K. On-Airport Traffic

The analysis presented in this document addresses the potential traffic impacts for the on-Airport surface transportation system within the Central Terminal Area (CTA) relative to traffic-related impacts associated with the operation of the LAX Landside Access Modernization Program (Proposed Action Alternative). The primary objective of this analysis is to evaluate the changes in existing and future traffic conditions associated with the implementation of the Proposed Action Alternative. This analysis is consistent with the methodologies and guidelines presented in the City of Los Angeles Department of Transportation (LADOT) Traffic Study Policies and Procedures Manual (LADOT Manual).¹

K.1 Introduction

The LAX Landside Access Modernization Program is an integrated set of transportation infrastructure improvement projects designed to improve the interface between passenger terminals at LAX and the regional ground transportation system, including the off-Airport roadway network and regional transit system. The LAX Landside Access Modernization Program encompasses the ground transportation and related infrastructure from within the CTA east to Manchester Square/Interstate 405 (I-405), and from Century Boulevard north to Westchester Parkway/W. Arbor Vitae Street.

The analysis addresses how the physical improvements resulting from the Proposed Action Alternative would affect existing and future (2024 and 2030/2035) traffic conditions within the CTA. The analysis includes a description of reasonably foreseeable physical conditions of the on-Airport transportation system in 2024 without construction of Proposed Action Alternative components. Assumptions incorporated into that future condition include: (1) the Existing (2014) physical conditions and configuration of the CTA plus reasonably foreseeable on-Airport ground access system improvements by 2024 and 2030/2035, independent of, and separate from, the Proposed Action Alternative; and (2) reasonably foreseeable regional (non-Airport) programmed improvements and ambient growth in off-Airport traffic, as they may affect on-Airport traffic.

The on-Airport traffic analysis includes a description of existing (2014) traffic conditions, and compares the Proposed Action Alternative traffic to this existing condition. The year of 2014 was utilized because LAWA conducted extensive traffic counts in the CTA during August 2014, which was used to develop and calibrate

¹ City of Los Angeles Department of Transportation, *Traffic Study Policies and Procedures*, August 2014.

the on-Airport traffic model. The analysis also includes two future conditions. The future (2024) and future (2030/2035) No Action Alternative includes the ground access improvements as described in Section K.6, and also includes an increase in on-Airport traffic from increased passenger activity levels forecasted to occur at LAX by 2024 and 2030/2035, forecasted to occur with or without the LAX Landside Access Modernization Program. The future (2024) and future (2030/2035) Proposed Action Alternative conditions consists of: (1) reconfiguration of the CTA roadways as a result of the Proposed Action Alternative; (2) the existing (2014) physical conditions and configuration for the remainder of the CTA plus reasonably foreseeable on-Airport ground access system improvements by 2024 and 2030/2035; (3) the 2024 and 2030/2035 passenger levels and daily flight schedules; and (4) reasonably foreseeable regional (non-Airport) programmed improvements and ambient growth in off-Airport traffic. Forecasts utilized for the on-Airport traffic were based on a passenger activity level of 95 million annual enplanements, with the FAA Terminal Area Forecast estimates would occur in 2030. For purposes of this analysis, it was assumed that passenger activity levels would stay constant at 95 million annual passengers through 2035.

K.2 Methodology

This analysis addresses the impacts to the signalized CTA intersections and roadway links resulting from variations in traffic accompanying the changes in passenger demand and peaking characteristics with regard to the Proposed Action Alternative. The traffic demand estimates prepared for this study were developed using a trip generation and trip distribution model that provides traffic volume estimates for all roadway links and curbside links within the CTA roadway system during multiple peak hour conditions for both the existing (2014) conditions and the future (2024) and future (2030/2035) No Action and Proposed Action Alternatives.

K.2.1 CTA INTERSECTION ANALYSIS

Signalized CTA intersections were analyzed to assess the effects of changes in vehicle activity and physical facilities throughout the CTA. It is critical to analyze vehicular intersections because these facilities meter traffic throughout the CTA roadway system and because they are key factors for vehicle throughput on the on-Airport roadways. Signalized intersections with two or more directions of vehicular travel were evaluated. For the purpose of this discussion, intersection movements are defined as through, left-turn, or right-turn movements.

K.2.2 CTA ROADWAY ANALYSIS

Key CTA roadway links were also analyzed to assess potential implications on overall CTA throughput. The evaluation of the roadways throughput performance accounted for any loss of vehicle throughput as a result of the curbside operations. Roadway throughput performance, expressed in terms of vehicles per hour, is a measure of the number of vehicles that can pass a given roadway section in an hour. For this analysis, vehicle congestion created by stopped vehicles at the adjacent curbside is accounted for when evaluating the impacts on the roadway's throughput capacity. The curbside congestion reduces the roadway throughput. Key roadway links were analyzed to assess potential congestion along both the upper level and lower levels of the CTA roadway system.

K.2.3 DESCRIPTION OF EXISTING (2014) TRAFFIC CONDITIONS

The description of existing (2014) on-Airport traffic conditions was based on CTA traffic volumes, Automated Vehicle Identification (AVI) counts, in-pavement loop detectors, and intersection turning movement counts collected in August 2014. Using August, which represents the peak month for roadway traffic accessing the CTA, the following methodology and data were used to determine the existing (2014) arrivals and departures Airport peak hours.

Passenger early arrival and late departure profiles were determined based on data obtained from the Los Angeles International Airport (LAX) 2011 Passenger Survey² and were applied to the Airport's domestic and international airline passenger schedules for August 2014 to predict when passengers arrive on the curbside. This data was reviewed to determine the Airport peak departure and arrival hours based on air passenger activity. The peak CTA vehicle traffic hours were assumed to coincide with the peak air passenger activity hours. The LAX 2011 Passenger Survey was used to develop initial assumptions; it was supplemented and verified with information from the LAX 2015 Passenger Survey.³

K.2.3.1 On-Airport Traffic Data Collected in 2014

Information from the Airport's in-pavement vehicle loop detectors and the AVI systems was used to obtain roadway traffic count data within the CTA. The counts representing existing (2014) conditions were collected on Friday, August 8, 2014. Friday was selected as the design day as it is typically the busiest overall day of the week for the Airport roadway system. The intersection turning movement counts were collected during a.m., mid-day, and p.m. commuter peak hours during August 2014. Collected data is included as **Attachment K.1**.

K.2.3.2 Existing (2014) Balanced Roadway Traffic Volumes

Traffic volumes for the peak hours identified from the 2014 air passenger activity data were reviewed for this traffic analysis. To estimate the balanced CTA roadway traffic for a typical Friday during August 2014, the intersection turning movement, loop detectors, and AVI counts provided by LAWA were compiled, reviewed, and analyzed to prepare a "balanced" roadway network of traffic activity during the 2014 peak hours. A balanced roadway network is simply a composite snapshot view of traffic activity throughout the CTA such that the addition or subtraction of traffic volumes including those entering and exiting the parking facilities within the CTA, remains in balance throughout the roadway system as lanes merge or diverge. In other words, there is an accounting and reconciliation of vehicles turning onto different routes within the CTA and arriving at and departing from the various curbside areas within the CTA.

K.2.4 VEHICLE TRIP GENERATION AND DISTRIBUTION MODEL

A vehicle trip generation and distribution model was developed to estimate future traffic volumes on the Airport's roadway system based on future passenger activities. The model was calibrated to the balanced

² Unison Consulting, Inc., *Los Angeles International Airport 2011 Passenger Survey*, conducted between August 22 and August 28, 2011 (peak) as well as October 17 and October 24, 2011 (non-peak), August, 2012.

³ Unison Consulting, Inc., *Final Report, Los Angeles International Airport 2015 Air Passenger Survey Results and Findings*, February 2016.

[DRAFT]

2014 CTA roadway vehicle volumes to ensure the model was accurately replicating 2014 conditions. The trip generation model outputs were compared to 2014 values to determine if the model-generated values were within an acceptable range. The trip generation model uses factors such as passenger arrival characteristics, vehicle volumes, mode split (i.e., the proportion of traffic volume composed of various modes including private vehicles, taxicabs, limousines, etc.), and vehicle occupancy characteristics to develop relationships between each of these factors. The relationships are used to program vehicle volumes from a passenger volume input. The estimated passenger mode choice percentages and vehicle occupancies used in the trip generation model for both the passenger arrivals and departures peak hours were developed from data collected as part of the LAX Landside Access Modernization Program and the LAX 2011 Passenger Survey.

The vehicle trip generation and distribution model assigns each vehicle an origin, a destination, and a route through the CTA. The model estimates vehicle volumes on each roadway link within the CTA to allow spot checks, which ensure that the appropriate volume and type of vehicles are assigned to each link. Once the model is calibrated to existing conditions for the departures and arrivals peak hours, future passenger activity levels can be input into the model to project traffic volumes and vehicle composition on each link of the CTA roadway network. The purpose of developing the vehicle trip generation and distribution model is to have a tool that accurately estimates future vehicle volumes based on a future passenger volume. Before the model could be used to estimate future peak hour traffic volumes, it was necessary to calibrate the model to ensure that the results would reliably predict actual observed traffic conditions as represented by the balanced roadway volumes. This process involved comparing model output for the departures peak hour and the arrivals peak hours with roadway and intersection traffic data from the balanced roadway network.

Mode split data and drop-off/parking information for the departures peak hour, as well as the arrivals peak hour, were developed using data from both the LAX 2011 Passenger Survey and data collected as part of this analysis. Both models also included originating/terminating passenger splits by arrival mode based on the estimated percentages of vehicles entering/exiting the Airport via the upper level and lower level roadways. **Table K-1** shows the passenger mode splits and the vehicle occupancies for existing conditions.

[DRAFT]

Table K-1: Existing (2014) CTA Passenger Mode Splits and Vehicle Occupancies

PASSENGER TRANSPORTATION MODE	ARRIVALS LEVEL ^{1/}		DEPARTURES LEVEL ^{2/}	
	PASSENGER MODE SPLIT	VEHICLE OCCUPANCY (PASS/VEH)	PASSENGER MODE SPLIT	VEHICLE OCCUPANCY (PASS/VEH)
Charter Bus	7.27%	22.6	5.66%	33.8
FlyAway	2.04%	27.0	2.71%	27.8
Hotel Shuttles	2.04%	3.5	4.83%	3.9
LAX Shuttles	0.74%	2.5	2.10%	2.8
Limousines	2.91%	1.2	4.93%	1.1
Privately-Owned Vehicle (POV) (includes Parking and Paid Ride)	49.47%	1.3	52.80%	1.3
Private Parking Shuttles	3.12%	1.9	6.93%	3.4
Rental Car Shuttles	18.94%	18.6	9.84%	7.6
Shared Ride Vans	4.95%	6.0	3.67%	5.9
Taxi	7.74%	1.2	5.77%	1.2
Transit Bus	0.78%	10.3	0.76%	13.0
Total	100%		100%	

NOTES:

1/ Represents the passenger mode split and vehicle occupancy during the arrivals peak hour.

2/ Represents the passenger mode split and vehicle occupancy during the departures peak hour.

PASS/VEH = passengers per vehicle

SOURCE: Ricondo & Associates, Inc. May 2016

PREPARED BY: Ricondo & Associates, Inc. May 2016

K.2.5 DESCRIPTION OF FUTURE (2024) TRAFFIC CONDITIONS

For this traffic analysis, future traffic conditions were analyzed to address the impact of change in future traffic patterns as a result of the No Action and Proposed Action Alternatives in 2024. The mode shares and passenger growth assumptions used for future traffic generation are described in Section K.8. Any reasonably foreseeable and funded roadway improvements were included as described in Section K.6. For this traffic analysis, the traffic conditions were analyzed at all CTA intersections relative to two time periods under two conditions during the course of a day, as follows:

- Future (2024) Traffic during the Airport Departures Peak No Action Alternative - This condition represents the future traffic activity during the peak hour for Airport passenger departures under the No Action Alternative.
- Future (2024) Traffic during the Airport Arrivals Peak No Action Alternative - This condition represents the future traffic activity during the peak hour for Airport passenger arrivals under the No Action Alternative.
- Future (2024) Traffic during the Airport Departures Peak Proposed Action Alternative - This condition represents the anticipated traffic activity during the peak hour for Airport passenger departures with the Proposed Action Alternative.

- Future (2024) Traffic during the Airport Arrivals Peak Proposed Action Alternative - This condition represents the future traffic activity during the peak hour for Airport passenger arrivals with the Proposed Action Alternative.

K.2.6 DESCRIPTION OF FUTURE (2030/2035) TRAFFIC CONDITIONS

Similar to the 2024 conditions described above, the future (2030/2035) conditions were analyzed to address the impact of change in future traffic patterns as a result of the No Action and Proposed Action Alternatives, as well as potential changes in peak traffic characteristics resulting from the increased passenger activity within the CTA forecasted to occur by 2030/2035. The mode shares and passenger growth assumptions used for future traffic generation are described in Section K.9. Any reasonably foreseeable and funded roadway improvements were included as described in Section K.6.

- Future (2030/2035) Traffic during the Airport Departures Peak No Action Alternative - This condition represents the future traffic activity during the peak hour for Airport passenger departures under the No Action Alternative.
- Future (2030/2035) Traffic during the Airport Arrivals Peak No Action Alternative - This condition represents the future traffic activity during the peak hour for Airport passenger arrivals under the No Action Alternative.
- Future (2030/2035) Traffic during the Airport Departures Peak Proposed Action Alternative - This condition represents the future traffic activity during the peak hour for Airport passenger departures with the Proposed Action Alternative.
- Future (2030/2035) Traffic during the Airport Arrivals Peak Proposed Action Alternative - This condition represents the future traffic activity during the peak hour for Airport passenger arrivals with the Proposed Action Alternative.

K.2.7 DETERMINATION OF FUTURE (2024 AND 2030/2035) TRAFFIC VOLUMES

The calibrated trip generation and trip distribution models for the 2014 departures and arrivals peak hours were used as a basis for estimating the peak hour CTA vehicle volumes for each of the future (2024 and 2030/2035) conditions. As part of this process, adjustments were made to the 2014 passenger mode splits to reflect the two Intermodal Transportation Facilities (ITFs) and the Consolidated Rental Car Facility (CONRAC), and how changes to the regional transportation network, including Metro rail, would affect passenger mode choice and resultant vehicle activity at the Airport. The passenger mode splits represent the proportion of total airline passengers using each vehicle mode during the peak hours analyzed. The volume of vehicles by mode were determined based on a calibrated trip generation model constructed using the traffic data collected on August 8, 2014. This model used the LAX 2011 Passenger Survey as the basis for estimating the passenger mode splits. The 2024 and 2030/2035 mode split estimates were calculated based on the general mode split trends derived between the LAX 2006 Passenger Survey⁴, the LAX 2011 Passenger Survey⁵ and the

⁴ Applied Management and Planning Group, *2006 Air Passenger Survey Final Report Los Angeles International Airport*, conducted between July 31 and August 27, 2006 (peak) as well as October 03 and October 22, 2006 (non-peak), December 2007.

LAX 2015 Passenger Survey,⁶ together with inputs from LAWA, including defining the modes predicted to be relocated to each of the ITFs. The LAX 2011 Passenger Survey showed a decreasing trend among passengers using private vehicles, limousines, shared ride vans, and taxis. The LAX 2015 Passenger Survey further accelerated this decreasing trend with more passengers choosing Transportation Network Companies (TNCs) over private vehicles, limousines, taxis, and shared ride vans. Other modes were also marginally affected by the mode shift to the TNCs. The traffic volumes by mode for each of the ITFs were then estimated by using the mode splits derived as explained above and from the calibration parameters from the 2014 calibrated model.

K.2.8 DESCRIPTION OF IMPACTS

The on-Airport traffic analysis was conducted for key intersections in the CTA. Impact determination utilized the Circular 212 (C212) method⁷, which analyzed intersections based on the critical movements that conflict with one another to determine the maximum amount of traffic throughput that can be attained in a given traffic signal cycle. Because the C212 method is a static intersection analysis method which calculates the Level of Service (LOS) based on the intersection being isolated from other traffic conditions in the vicinity, roadway links were also analyzed. Compared to off-Airport roadways, the on-Airport environment is unique and has a different set of constraints, such as downstream stoppages of traffic as a result of curbside operations, higher proportion of traffic that is unfamiliar with the roadways leading to slower speeds, constant need of decision-making as a result of signage, and a complex mix of vehicle modes. The roadway link analysis methodology takes into account the adjacent curbside utilization by reducing the link throughput capacity by a factor directly proportional to the adjacent curbside utilization. The roadway link analysis provides a more realistic picture of the traffic conditions in the CTA.

K.2.8.1 CTA Intersection Level of Service Analysis

Levels of service analyses for the signalized CTA intersections were prepared using TRAFFIX.® a commercially available traffic analysis program designed for preparing traffic forecasts and analyzing intersection and roadway capacity. Intersection LOS was estimated using the Critical Movements Analysis (CMA) also called C212 planning level methodology as defined in Transportation Research Board (TRB) Circular 212, in accordance with City of Los Angeles Department of Transportation (LADOT) Traffic Studies Policies and Procedures.⁸ Intersection LOS was analyzed for the peak hour conditions described below in Section K.3. See analysis worksheets in **Attachment K.2**.

The intersections on the departures level were analyzed during the Airport departures peak hour and the intersections on the arrivals level were analyzed during the Airport arrivals peak hour to identify potential

⁵ Unison Consulting, Inc., *Los Angeles International Airport 2011 Passenger Survey*, conducted between August 22 and August 28, 2011 (peak) as well as October 17 and October 24, 2011 (non-peak), August 2012.

⁶ Unison Consulting, Inc., *Final Report, Los Angeles International Airport 2015 Passenger Survey Results and Findings*, February 2016.

⁷ Transportation Research Board, *Transportation Research Circular 212, Interim Materials on Highway Capacity*, January 1980.

⁸ Los Angeles Department of Transportation, *Traffic Study Policies and Procedures*, August 2014.

effects. Impacts were determined based on a comparison between the future (2024 and 2030/2035) Proposed Action Alternative and the future (2024 and 2030/2035) No Action Alternative.

K.2.8.2 CTA Roadway Level of Service Analysis

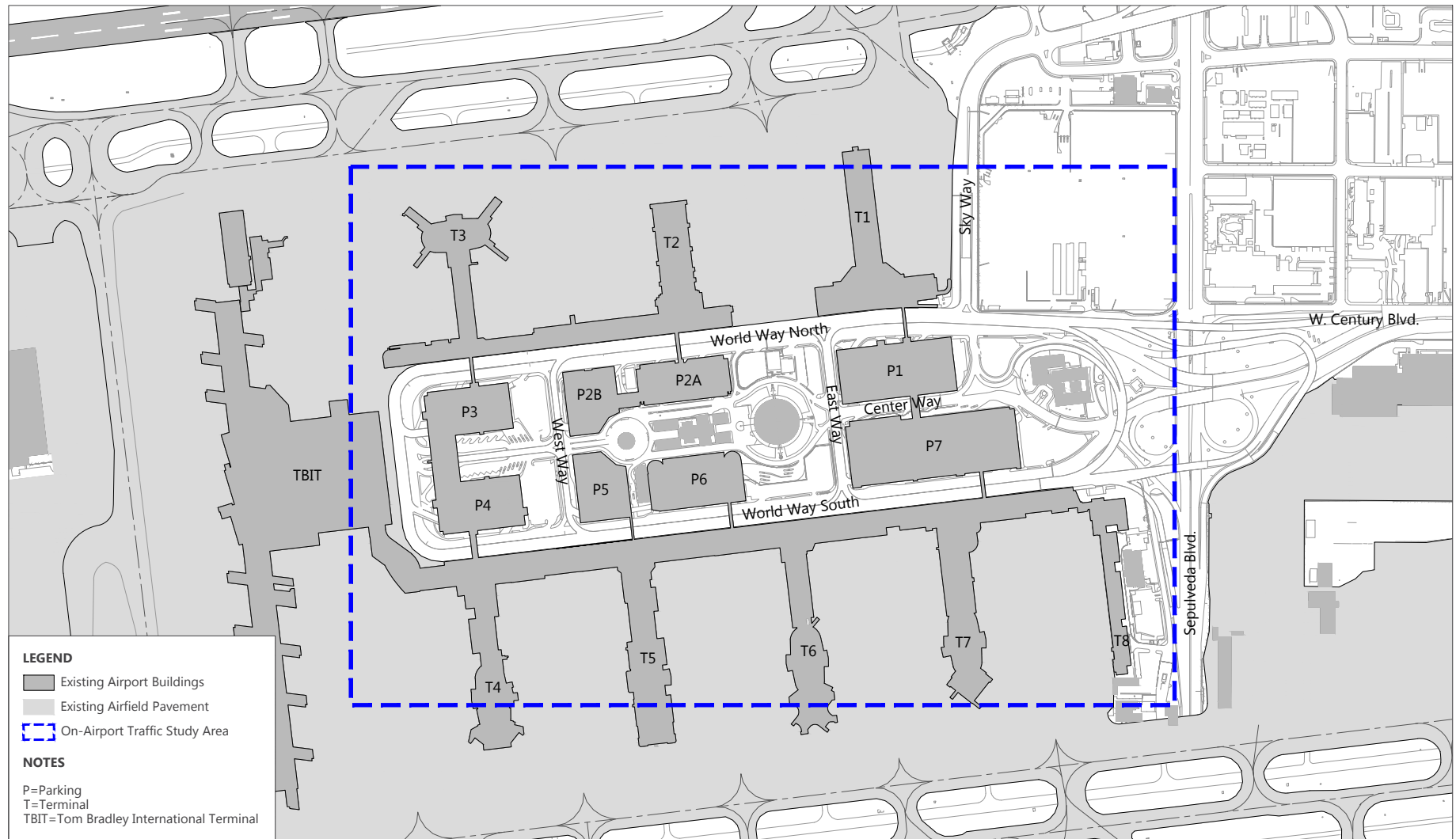
Analyses of the key roadway links within the CTA were prepared by calculating the ratio of roadway volume to capacity (V/C). Traffic volumes were determined from the vehicle trip generation and distribution model described previously.

K.3 Existing Conditions

K.3.1 TRAFFIC ANALYSIS STUDY AREA

The on-Airport traffic analysis study area is depicted on **Figure K-1**. The CTA curbside and roadway system consists of a two-level roadway; the upper level is dedicated to departing passenger activities (and TNC passenger pick-ups as well as drop-offs), and the lower level is primarily dedicated to arriving passenger activities. The CTA roadway network provides access to the Airport's CTA public parking garages, which are intended to accommodate short-term and daily parking customers.

[Preliminary Draft for Discussion Purposes Only]



SOURCE: HNTB Corp., Los Angeles International Airport Layout Plan, July 2012.
PREPARED BY: Ricondo & Associates, Inc., August 2017.

FIGURE K-1

On-Airport Traffic Study Area



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K.3.2 ON-AIRPORT LANDSIDE FACILITIES

The on-Airport landside facilities are composed of the CTA curbsides, roadways, and public parking facilities. The two-level on-Airport curbside and roadway network is primarily accessed from the following three off-Airport roadways: (1) Century Boulevard, (2) Sepulveda Boulevard, and (3) 96th Street Bridge/Sky Way.

Each of these roadways provides vehicular access to both the departures level and the arrivals level curbsides and roadways. On-Airport access from the departures level to the arrivals level is provided via a recirculation ramp located at the eastern end of the CTA and a ramp at the western end of Center Way connecting to West Way on the departures level. Access from the arrivals level to the departures level is provided via this same ramp at the western end of Center Way connecting to West Way on the departures level. Both the departures level and arrivals level roadways are signed for a speed limit of 25 miles per hour (mph).

K.3.3 PEAK MONTH ACTIVITY

Monthly traffic data in the vicinity of LAX over the past nine years were reviewed to identify the typical peak month of traffic activity associated with Airport operations. The average daily traffic (ADT) volumes accessing the CTA by month for 2006 through 2014 are provided in **Table K-2**. As shown in bold within Table K-2, CTA traffic reached peak activity during the summer months of June, July, and August. August is typically the peak month for Airport roadway traffic followed closely by July. For the purpose of this analysis, August 2014 was used as the peak month for traffic data, because the field data was collected in August. Although July had slightly more passengers in 2014, the analysis was based on a peak month average day in August. The passenger volumes are within 0.5 percent of July data, and for modeling calibration purposes, it was determined better to utilize actual collected data (from August 2014) than to interpolate the August mode share data to a different month.

K.3.4 DATA COLLECTION AND DATA SOURCES

LAWA records were the primary source of the traffic data, facility drawings, and traffic signal timing plans for this traffic analysis. To supplement this data, detailed field surveys of both the departures and arrivals level curbsides and roadway systems were conducted to ensure a clear understanding of the existing (2014) conditions and commercial vehicle, private vehicle, and passenger operations. As described above, the data provided by LAWA staff were used to create a snapshot of vehicle and passenger activity for a typical Friday in August 2014. LAWA provided the following data, which is available in **Attachment K.3**:

- LAX 2011 Passenger Survey;
- CTA vehicle counts;
- CTA vehicle classification which includes other category counts comprised of private vehicles, rental cars, service vehicles, and any other vehicle not equipped with an Automated Vehicle Identification transmitter; and
- Parking structure vehicle count data.

[DRAFT]

Table K-2: CTA Average Daily Traffic Volumes

MONTHLY TRAFFIC	2006	2007	2008 ^{1/}	2009	2010	2011	2012	2013	2014
January	67,727	66,999	67,483	63,012	64,431	66,477	N/A ^{2/}	57,985	71,268
February	63,715	65,339	64,924	61,899	60,857	62,322	N/A ^{2/}	62,578	66,793
March	69,034	68,380	69,819	64,504	65,057	66,115	N/A ^{2/}	68,228	72,828
April	69,230	70,268	69,184	67,410	65,825	67,487	N/A ^{2/}	69,388	73,639
May	70,303	71,599	72,022	68,964	67,787	71,588	N/A ^{2/}	72,297	76,674
June	72,647	73,669	75,118	73,221	74,578	76,035	N/A ^{2/}	77,791	82,022
July	75,895	78,342	75,640	74,975	75,881	71,552	N/A ^{2/}	77,244	82,282
August	78,236	82,193	76,434	77,062	74,758	73,930	73,990	77,346	81,846
September	67,171	68,316	65,227	66,106	67,354	65,578	66,353	70,232	74,206
October	66,981	68,152	64,260	66,173	66,674	62,080	67,713	70,463	74,267
November	70,326	72,098	64,128	66,116	66,805	N/A ^{2/}	69,325	69,160	74,550
December	71,978	71,900	70,972	71,006	69,205	N/A ^{2/}	70,483	77,724	77,908
Average Daily Traffic ^{1/}	70,329	71,492	69,639	68,426	68,324	N/A ²	N/A ²	70,870	75,690
% Annual Change	1.30%	1.70%	-2.60%	-1.70%	-0.10%	N/A ²	N/A ²	6.1%	6.8%
Million Annual Passengers	61.0	62.4	59.8	56.5	59.1	61.9	63.73	66.7	70.7
% Annual Change	-0.80%	1.50%	-4.20%	-5.50%	4.60%	4.70%	2.90%	4.7%	6.0%

NOTES:

1/ Estimates for average daily traffic are calculated by weighting the monthly average daily traffic volumes by the number of days in the month. The month of February had 29 days in 2008 and 2012.

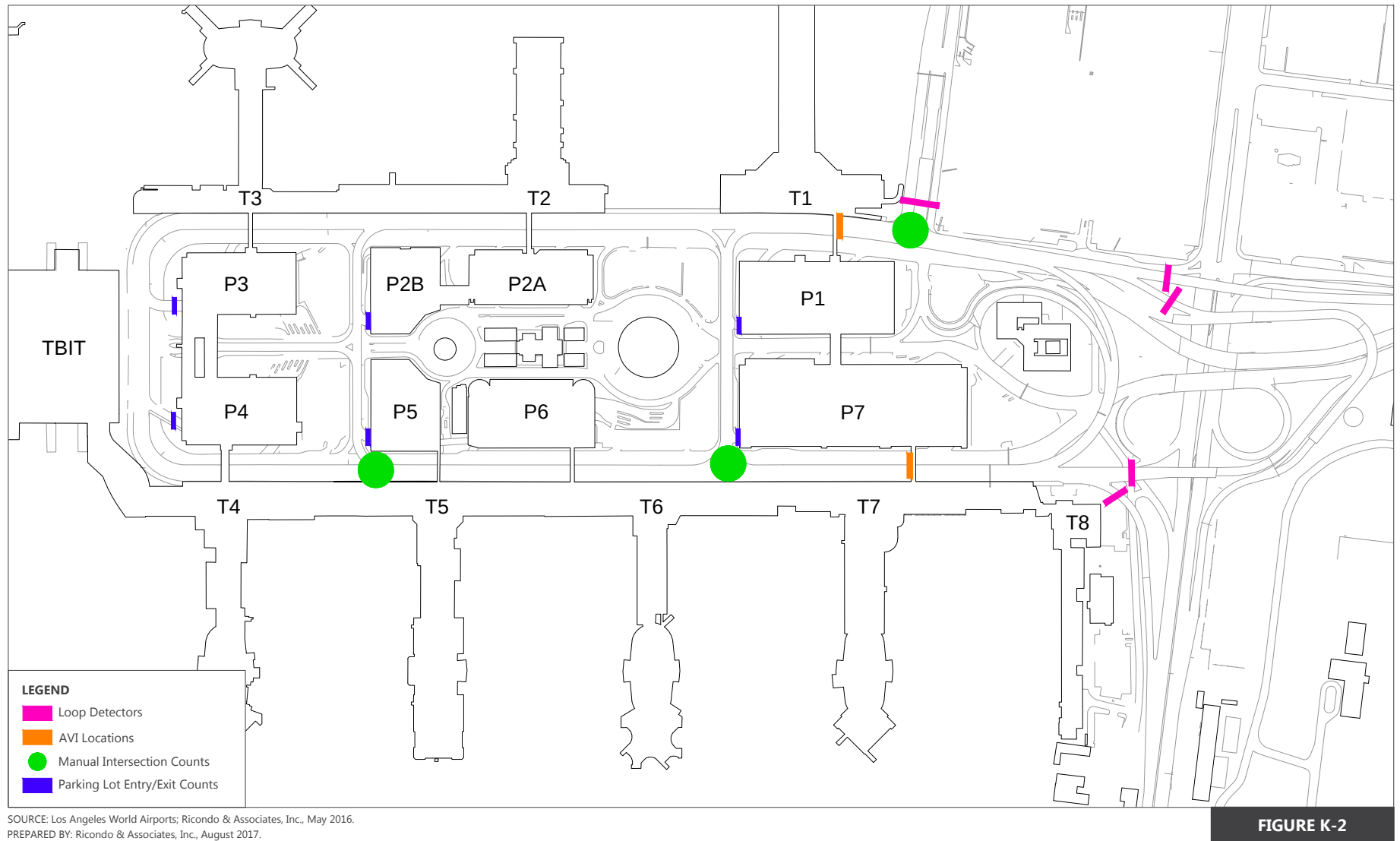
2/ Accurate average daily traffic volumes were not available for November 2011 through July 2012 due to transition to new vehicle detection equipment.

SOURCE: City of Los Angeles, Los Angeles World Airports, *LAX 2010 Ground Transportation Report*, March 2011.

PREPARED BY: Ricondo & Associates, Inc. May 2016.

Figure K-2 and **Figure K-3** identify the locations where the traffic data were collected within the CTA. In addition to the above data, automated traffic counts were collected on the southbound Sepulveda Boulevard exit ramp and eastbound Century Boulevard exits. These tube counts were collected in August 2014 to serve as a control point to the automatic loop detector counts. By comparing the tube counts to the automated loop detector counts, any errors in the loop detectors were determined. An error correction was then applied to adjust loop counts when they were used in the model to balance traffic.

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CTA Data Collection Locations
Departures Level

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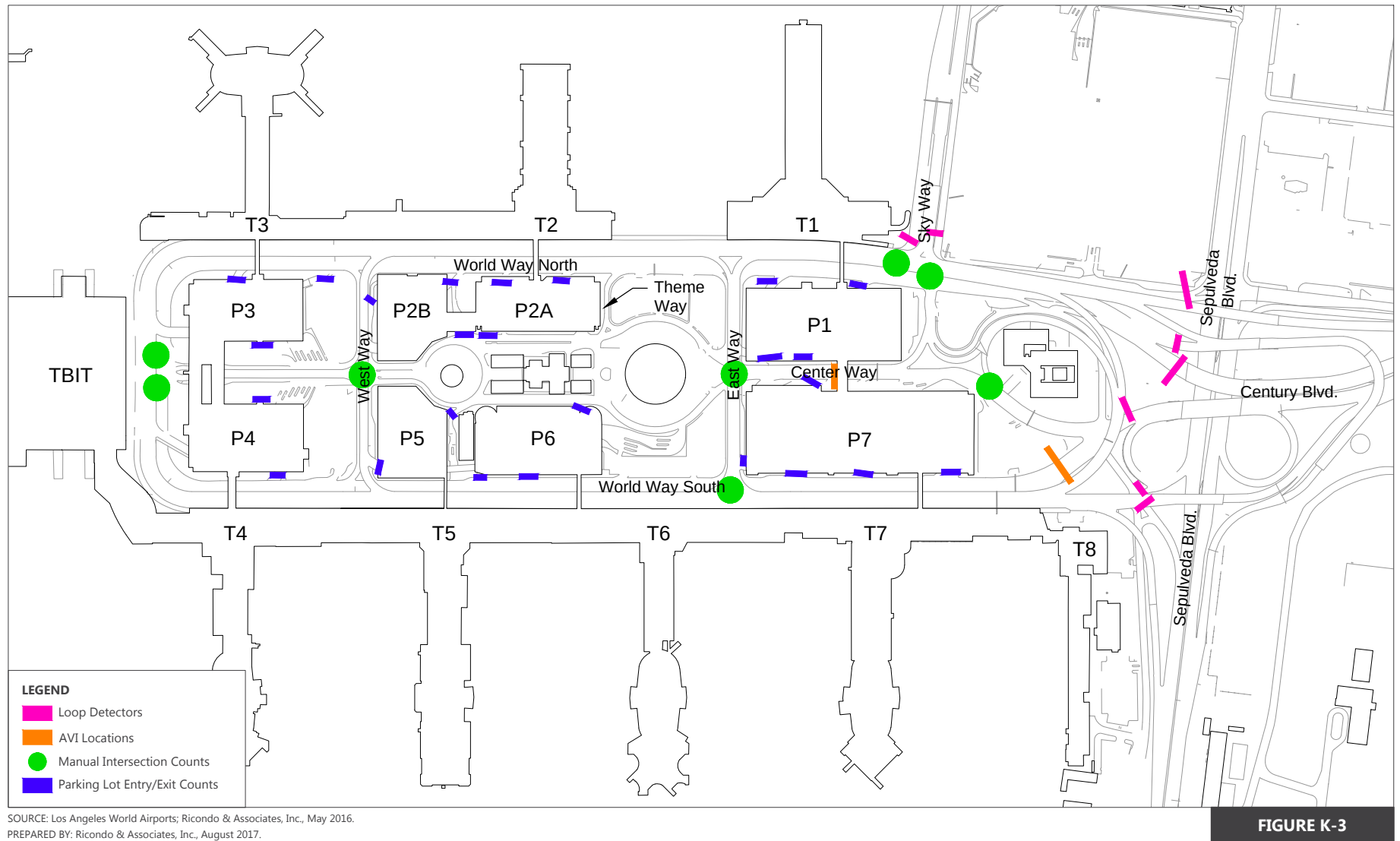


FIGURE K-3

CTA Data Collection Locations
Arrivals Level

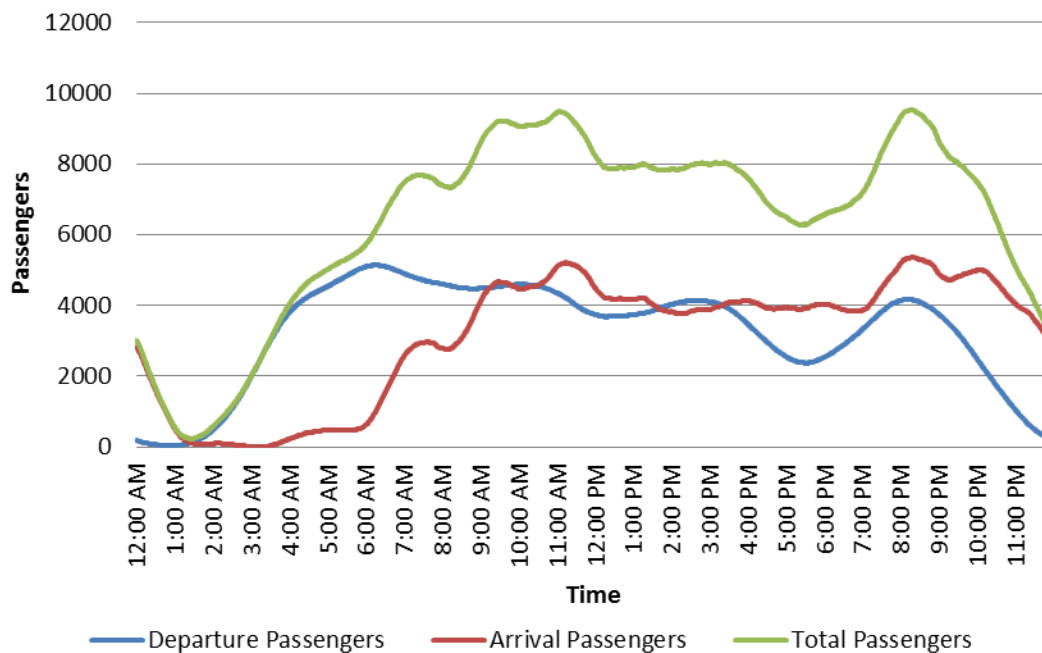


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K.3.5 TRAFFIC ANALYSIS PEAK HOURS

The August 2014 airline schedule was used to estimate a rolling hour of departing (i.e., outbound flight) and arriving (i.e., inbound flight with LAX as the final destination) passenger volumes for each terminal. Departing (originating) passenger volumes throughout each hour of the day were adjusted to account for the time passengers arrived at the curbside prior to the departure time of their flight. These adjustments were made based on "early arrivals curves" derived from the LAX 2011 Passenger Survey. Early arrivals curves refer to the timing of passenger demand from the flight schedule adjusted to account for the time originating passengers arrive at the Airport prior to their flight (i.e., "lead time"). These curves took into account the differences in domestic and international passenger early arrival characteristics as well as the differences by the time of day. Similarly, arriving (terminating) passenger volumes from the airline schedule were adjusted to represent the time passengers arrived at the curbside following the arrival of their flight. Terminating passenger arrivals curves were used to reflect domestic passenger arrivals characteristics at LAX. The terminating passenger arrivals curves refer to time allotted for terminating passengers to travel from their gate to the arrivals level curbside (i.e., "lag time").

The international arriving passenger data used for this analysis for both the existing and future conditions was generated based on: (a) the existing geometric configuration and operational conditions; and (b) future configurations, aircraft fleet mixes, and operational conditions. Departing and arriving passenger volumes at the curbside were calculated for domestic and international passengers for a 24-hour period in 1-minute increments. Each sixty successive 1-minute passenger counts were added to generate a rolling hourly passenger count total. From these data, the departures and arrivals peak hour passenger volumes by time of day were determined. **Figure K-4** depicts the rolling hourly departing and arriving passenger flows in 2014 for the CTA curbside. **Table K-3** summarizes the 2014 Airport passenger arrivals and departures peak hours.

Figure K-4: Existing (2014) Rolling Hour Departure and Arrival Passengers Volumes

SOURCE: Ricondo & Associates, Inc. May 2016.

PREPARED BY: Ricondo & Associates, Inc. May 2016.

Table K-3: Summary of Existing Conditions (2014) Airport Peak Hours

EXISTING (2014)	AIRPORT PEAK HOUR	TOTAL PASSENGERS
Arrivals	8:18 p.m. - 9:18 p.m.	5,369
Departures	6:16 a.m. - 7:16 a.m.	5,142
Overall Airport	8:18 p.m. - 9:18 p.m.	9,534

SOURCE: Ricondo & Associates, Inc. May 2016.

PREPARED BY: Ricondo & Associates, Inc. May 2016.

K.3.6 VEHICLE TRIP GENERATION AND DISTRIBUTION MODEL

As explained in Section K.2, a vehicle trip generation and distribution model was developed to estimate future traffic volumes on the Airport's roadway system based on future passenger activities. The model was calibrated to the balanced 2014 CTA roadway vehicle volumes to ensure the model was accurately replicating 2014 conditions.

K.4 Analysis of Existing Conditions

This section describes how the results from the vehicle trip generation and TRAFFIX® models were used to characterize 2014 traffic conditions for intersection capacity of the key CTA intersections.

K.4.1 CTA INTERSECTION EXISTING CONDITIONS

This section describes the operating conditions of key signalized CTA intersections using the 2014 traffic volumes as defined in Section K.3. All of the study area intersections were analyzed with TRAFFIX®, except for the intersection of World Way South and Center Way which was analyzed using Synchro 7, another widely accepted transportation analysis model. The intersection of World Way South and Center Way is a five-legged intersection and TRAFFIX software is not equipped to analyze intersections with more than four legs. Therefore, Synchro 7 was used to analyze this intersection.

Intersection LOS is a qualitative measure that describes traffic operating conditions at an intersection (e.g., delay, queue lengths, congestion). Intersection levels of service range from "A" (i.e., excellent conditions with little or no vehicle delay) to "F" (i.e., excessive vehicle delays and queue lengths). Levels of service definitions for the CMA methodology are presented in **Table K-4**. The analysis evaluated the intersection's V/C and LOS conditions using the CTA roadway traffic volumes for the 2014 conditions, as provided in **Table K-5** for the Airport peak departures and arrivals hours. With the exception of World Way South and Center Way (Exit) on the lower level, which operates at an LOS of B, all other intersections operated at LOS A.

[DRAFT]

Table K-4: Level of Service Definitions for Signalized Intersections

LEVEL OF SERVICE (LOS)	VOLUME/CAPACITY RATIO RANGE	DEFINITION
A	0 - 0.600	EXCELLENT: No vehicle waits longer than one red light and no approach phase is fully used.
B	0.601 - 0.700	VERY GOOD: An occasional approach phase is fully used; many drivers begin to feel somewhat restricted within groups of vehicles.
C	0.701 - 0.800	GOOD: Occasionally, drivers may have to wait through more than one red light; backups may develop behind turning vehicles.
D	0.801 - 0.900	FAIR: Delays may be substantial during portions of the rush hours, but enough lower volume periods occur to permit clearing of developing lines, preventing excessive backups.
E	0.901 – less than 1.000	POOR: Represents the most vehicles that intersection approaches can accommodate; may be long lines of waiting vehicles through several signal cycles.
F	greater than or equal to 1.000	FAILURE: Backups from nearby intersections or on cross streets may restrict or prevent movement of vehicles out of the intersection approaches. Tremendous delays with continuously increasing queue lengths.

SOURCE: Transportation Research Board, *Transportation Research Circular No. 212, Interim Materials on Highway Capacity*, January 1980.

PREPARED BY: Ricondo & Associates, Inc. May 2016.

Table K-5: Peak Hour CTA Signalized Intersection Turning Movement Volumes and Level of Service Analysis - Existing (2014) Conditions

INTERSECTION	PEAK HOUR ^{1/}	EXISTING (2014)												V/C ^{2/}	LOS ^{3/}
		NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND				
		L	T	R	L	T	R	L	T	R	L	T	R		
World Way North and Sky Way (Upper Level)	Departure						916						1,954	0.428	A
World Way South and West Way (Upper Level)	Departure				528				1,502					0.394	A
World Way South and East Way (Upper Level)	Departure				523			88	1,924					0.448	A
World Way North and Sky Way (Lower Level)	Arrival	270	140				932						1,851	0.561	A
World Way South and Center Way (Exit) (Lower Level) ⁴	Arrival	270	1,114	888					834	636				0.68	B
East Way and World Way South (Lower Level)	Arrival				475			157	1,588					0.439	A

NOTES:

1/ The departures peak hour occurred from 6:16 a.m. to 7:16 a.m. The arrivals peak hour occurred from 8:18 p.m. to 9:18 p.m.

2/ Volume to capacity ratio.

3/ Level of Service range: A (excellent) to F (failure).

4/ For the World Way South and Center Way intersection, World Way South volumes are noted in the Northbound column and Center Way volumes are noted in the Eastbound column of the table.

SOURCE: Ricondo & Associates, Inc. May 2016.

PREPARED BY: Ricondo & Associates, Inc. May 2016.

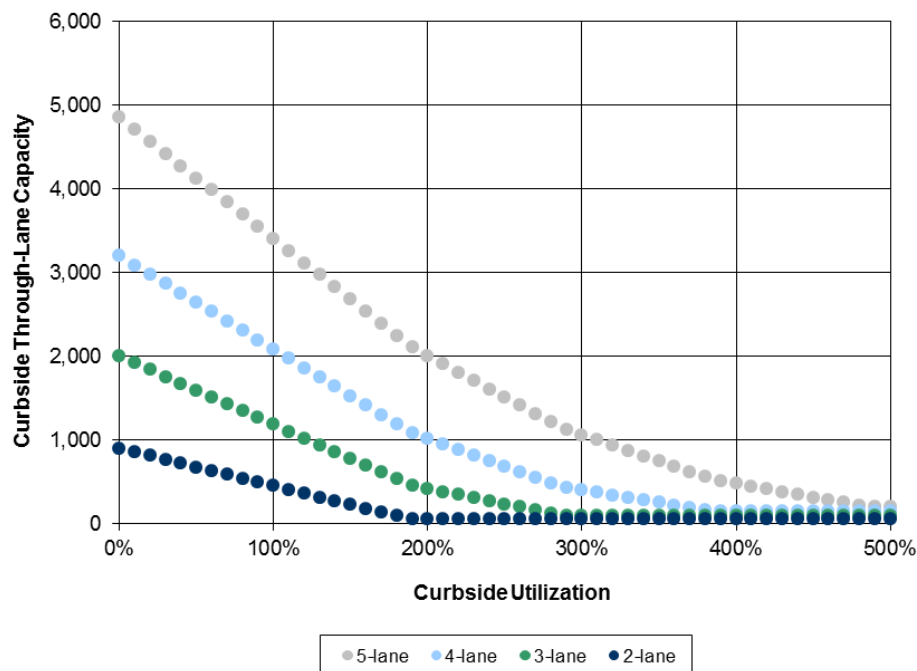
K.4.2 CTA ROADWAY EXISTING CONDITIONS

In order to analyze the operating conditions along the Airport roadway system, the calculated volume of traffic using each roadway link was compared to the capacity of the roadway at that particular location. The capacities of the roadway links were determined based on the characteristics of the roadway link, the number of travel lanes provided, and the effects of curbside congestion. Based on the Highway Capacity Manual, Special Report 209,⁹ the theoretical capacity of a roadway is the maximum hourly flow rate per lane under "ideal" conditions comprised of: (a) uninterrupted flow; (b) all passenger cars comprised of drivers that are frequent users of the roadway; (c) 12-foot minimum lane width; (d) relatively flat grades with minor curvature; and (e) optimal lateral clearance between the edge of lane and from nearby obstacles and walls.

For airport roadways, however, capacities are substantially lower, as many of the "ideal" conditions listed above cannot be attained. For example, drivers are often unfamiliar with the roadway system. Also, increased interaction and impedances between vehicles usually results in drivers slowing to change lanes or maneuver in response to signage describing multiple on-airport destinations occurring over relatively short distances. Since airport curbsides accommodate relatively intense activity occurring over a relatively compact area, curbside roadway throughput capacities are much lower than provided on non-airport roadway systems. The throughput capacity of roadways adjacent to a curbside is a function of the number of lanes, effects of friction (slowing down of through vehicles) from stopped and maneuvering vehicles, pedestrian crossing activity, and other characteristics. Consequently, curbside roadway throughput capacity decreases as curbside utilization increases (i.e., double and triple parking increases which slows vehicles trying to pass). Therefore, the throughput capacity for each lane is related to the level of congestion at the adjacent curbside. **Figure K-5** illustrates the relationship of curbside roadway throughput capacity as a function of curbside utilization.

Table K-6 provides the roadway V/C ratio used to determine a roadway link's LOS. As discussed previously, the capacities of all travel lanes adjacent to a curbside are dependent on the adjacent curbside's utilization rate or level of congestion. For LOS determinations of the CTA roadway links, the values identified in Table K-6 were used. The analysis evaluated the key roadway link V/C and LOS conditions using the CTA roadway traffic volumes for the 2014 conditions, as provided in **Table K-7** for the Airport peak departures and arrivals hours. As shown in Table K-7, over half of the CTA roadway links (13 out of 24) operated at LOS E or F at certain times of the day.

⁹ Transportation Research Board, Highway Capacity Manual, Special Report 209: Chapter 2 – Capacity and Level of Service Concepts, pp. 2-3 and 2-4, 2000.

Figure K-5: Curbside Roadway Throughput Capacity as a Function of Curbside Utilization

NOTE: LEGEND INCLUDES NUMBER OF LANES INCLUDING THE CURBSIDE LOADING/UNLOADING LANE

SOURCE: Transportation Research Board of the National Academies, Airport Cooperative Research Program, *ACRP Report 40, Airport Curbside and Terminal Area Roadway Operations* 2010.

PREPARED BY: Ricondo & Associates, Inc. April 2016

Table K-6: Roadway Level of Service and Volume to Capacity (V/C) Ratio Ranges

LOS	V/C RATIO	CONDITIONS	DESCRIPTION
A	less than 0.60	EXCELLENT	Traffic is free flow, with low volumes and high speeds
B	0.61 - 0.70	VERY GOOD	Drivers have reasonable freedom to select their speed and lane of operation
C	0.71 - 0.80	GOOD	Drivers are becoming restricted in their ability to select their speed or to change lanes
D	0.81 - 0.90	FAIR	Drivers have little freedom to maneuver and driving comfort levels are low
E	0.91 – less than 1.00	POOR	Roadway is operating at or near capacity
F	greater than or equal to 1.00	FAILURE	Forced flow operation where excessive roadway queuing develops

SOURCE: Transportation Research Board, *Transportation Research Circular No. 212, Interim Materials on Highway Capacity*, January 1980.

PREPARED BY: Ricondo & Associates, Inc. April 2016.

[DRAFT]

Table K-7: Peak Hour CTA Roadway Volumes and Level of Service Analysis - Existing (2014) Conditions

ROADWAY LINK	EXISTING (2014)		
	VOLUMES	ROADWAY V/C	LOS
DEPARTURES			
Upper Level Roadway Link Adjacent to Terminal 1	2,870	0.92	E
Upper Level Roadway Link Adjacent to Terminal 2	2,327	0.96	E
Upper Level Roadway Link Adjacent to Terminal 3	1,577	0.85	D
Upper Level Roadway Link Adjacent to TBIT	1,483	0.71	C
Upper Level Roadway Link Adjacent to Terminal 4	1,400	0.75	C
Upper Level Roadway Link Adjacent to Terminal 5	2,050	1.17	F
Upper Level Roadway Link Adjacent to Terminal 6	2,050	0.98	E
Upper Level Roadway Link Adjacent to Terminal 7	2,460	1.12	F
ARRIVALS			
Roadway Link Adjacent to Terminal 1 Lower Level Inner Curbside	601	0.32	A
Roadway Link Adjacent to Terminal 2 Lower Level Inner Curbside	530	0.40	A
Roadway Link Adjacent to Terminal 3 Lower Level Inner Curbside	473	0.20	A
Roadway Link Adjacent to TBIT Lower Level Inner Curbside	489	0.21	A
Roadway Link Adjacent to Terminal 4 Lower Level Inner Curbside	666	0.36	A
Roadway Link Adjacent to Terminal 5 Lower Level Inner Curbside	744	0.57	A
Roadway Link Adjacent to Terminal 6 Lower Level Inner Curbside	220	0.09	A
Roadway Link Adjacent to Terminal 7 Lower Level Inner Curbside	536	0.14	A
Roadway Link Adjacent to Terminal 1 Lower Level Outer Curbside	2,394	1.04	F
Roadway Link Adjacent to Terminal 2 Lower Level Outer Curbside	2,085	0.94	E
Roadway Link Adjacent to Terminal 3 Lower Level Outer Curbside	1,782	0.96	E
Roadway Link Adjacent to TBIT Lower Level Outer Curbside	1,578	1.00	E
Roadway Link Adjacent to Terminal 4 Lower Level Outer Curbside	1,300	1.34	F
Roadway Link Adjacent to Terminal 5 Lower Level Outer Curbside	1,740	0.91	E
Roadway Link Adjacent to Terminal 6 Lower Level Outer Curbside	1,903	1.40	F
Roadway Link Adjacent to Terminal 7 Lower Level Outer Curbside	1,863	2.37	F

NOTE: The departures peak hour occurred from 6:16 a.m. to 7:16 a.m. The arrivals peak hour occurred from 8:18 p.m. to 9:18 p.m.

SOURCE: Ricondo & Associates, Inc. May 2016.

PREPARED BY: Ricondo & Associates, Inc. May 2016.

K.5 Thresholds of Significance

To assess impacts at the CTA intersections, LOS thresholds defined in the LADOT Traffic Study Policies and Procedures¹⁰ were used to determine if an impact was generated by the Proposed Action Alternative. Based on the LADOT definition, an impact is considered to be significant if one of the following thresholds is met or exceeded:

- The LOS is C, its final V/C ratio is 0.701 to 0.800, and the increase in V/C is 0.040 or greater, or
- The LOS is D, its final V/C ratio is 0.801 to 0.900, and the increase in V/C is 0.020 or greater, or
- The LOS is E or F, its final V/C ratio is 0.901 or greater, and the increase in V/C is 0.010 or greater.

The "final V/C ratio", as defined by LADOT, consists of the future V/C ratio that includes traffic volumes from the Proposed Action Alternative, existing (2014) traffic, ambient background growth, and other related projects, but without any proposed traffic mitigation. The increase is defined as the change in V/C between the future V/C ratio under the No Action Alternative and the Proposed Action Alternative, without any proposed traffic mitigation. (i.e., the change in the unmitigated LOS condition between [a] the V/C for the future (2024 and 2030/2035) Proposed Action Alternative, and [b] the V/C for the future (2024 and 2030/2035) No Action Alternative).

The LADOT thresholds listed above are designed for assessing impacts associated with intersections and roadways where the V/C ranges are based on an established scale between 0.000 and 1.000 (i.e., capacity), with the interim LOS ranges (e.g., LOS B to C, LOS C to D) increasing in increments of 0.1.

K.6 On-Airport Transportation System Improvements

The following describes the on-Airport transportation system improvements included in the 2024, 2030, and 2035 No Action Alternative traffic analysis conditions, and how such improvements would affect passenger flow and vehicle operations. Ground transportation improvements assumed under the No Action Alternative include:

- Commercial Vehicle Holding Lot Relocation. The existing current vehicle holding lot would be relocated to Lot E or to the area known as "Manchester Square."
- Policy Changes to Bus Operations in the CTA. To provide for more efficient operations through the CTA, single-level busing would be implemented. Private parking shuttles would be relegated to the upper level, while hotel shuttles would use the lower level.

¹⁰ Los Angeles Department of Transportation, *Traffic Study Policies and Procedures*, August 2014. Thresholds are the same as the thresholds in the L.A. CEQA Thresholds Guide.

- Parking Garage Reconstruction. Parking Garages P2B and P5 would be demolished and reconstructed in their existing location.

These improvements are not included in the existing (2014) conditions analysis.

K.7 Proposed Action Alternative-Related Improvements

The following describes the on-Airport transportation system improvements included in the 2024 and 2030/2035 Proposed Action Alternative traffic analysis conditions, and how such improvements would affect passenger flow and vehicle operations. **Figure K-6** shows the improvements to the Airport area roadways proposed to be implemented by 2024, including:

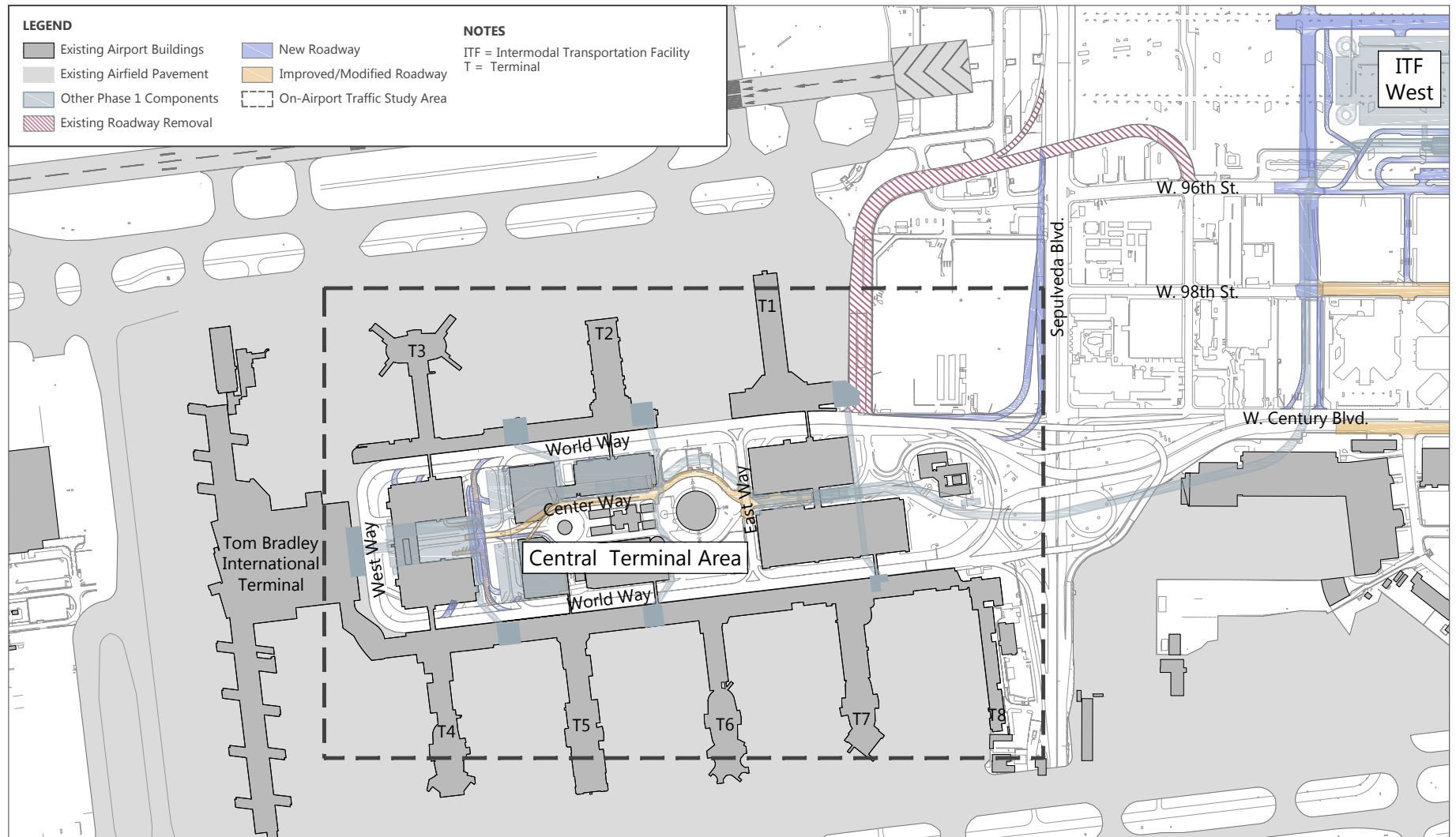
- On-Airport roadway improvements proposed through 2024 include:
 - Southbound S. Sepulveda Boulevard to World Way (departures and arrivals) Ramps
 - Center Way between West Way and East Way
- In addition to the above on-Airport roadway improvements, the following roadways would be removed or modified:
 - W. 96th Street/Sky Way Bridge would be removed
 - W. Century Boulevard west of S. Sepulveda Boulevard would be removed
- In order to provide curbfront to the West CTA Automated People Mover (APM) Station, West Way is proposed to be relocated approximately 200 feet to the west, adjacent to the pedestrian walkway connecting parking garages P3 and P4 and Terminals T3 and T4. West Way is proposed as a two-level, two-lane roadway with an added drop-off lane on the west side and an added lane for ingress into the parking garages to the east for the upper level only. The proposed roadway would be configured to accommodate southbound travel only at both levels. Access to new garages P2B and P5 would be accommodated at both levels off of West Way.

The proposed roadway improvements are designed to reduce congestion and enable passengers to more efficiently access LAX. These proposed improvements include, among others, new roadway segments, additional lanes, realignment of segments of existing roads, restriping, modified freeway ramps, new or realigned driveways, roadway closures, streetscape improvements, landscaping, and intersection improvements. Please see Section 1.3.2 of the Draft EA for more information regarding the proposed improvements to the Airport area roadways.

The proposed roadway improvements to the Airport area roadways proposed to be implemented by 2030 are shown on **Figure K-7**. There would be no changes to the on-Airport roadway system between 2030 and 2035. This on-Airport analysis considered the effects of these roadway improvements in terms of changes to vehicle access or exit patterns to and from the CTA.

- On-Airport roadway improvements proposed through 2030 include:
 - Westbound W. Century Boulevard (New 'A' Street to World Way)
 - Westbound W. Century Boulevard Viaduct to World Way
 - Northbound S. Sepulveda Boulevard to eastbound W. Century Boulevard Ramp
 - Eastbound World Way (Departures) to northbound S. Sepulveda Boulevard Ramp
 - Eastbound World Way (Arrivals) to southbound S. Sepulveda Boulevard Ramp
 - Eastbound World Way (Departures) to southbound S. Sepulveda Boulevard Ramp (join existing ramp)
 - Eastbound Center Way to southbound S. Sepulveda Boulevard Ramp
 - Eastbound World Way (Arrivals & Departures) to eastbound W. Century Boulevard and to northbound New 'A' Street
- In addition to the above new roadways, the following roadways would be removed or modified by 2030:
 - Return road connecting World Way South and World Way North would be modified to form an intersection with Center Way to southbound S. Sepulveda Boulevard ramp. This intersection would likely be signalized.
 - Loop ramp from southbound S. Sepulveda Boulevard to W. Century Boulevard would be removed.

[Preliminary Draft for Discussion Purposes Only]



SOURCE: HNTB Corp., Los Angeles International Airport Layout Plan, July 2012; MapLAX, March 2016.
 PREPARED BY: Ricondo & Associates, Inc., August 2017.

FIGURE K-6

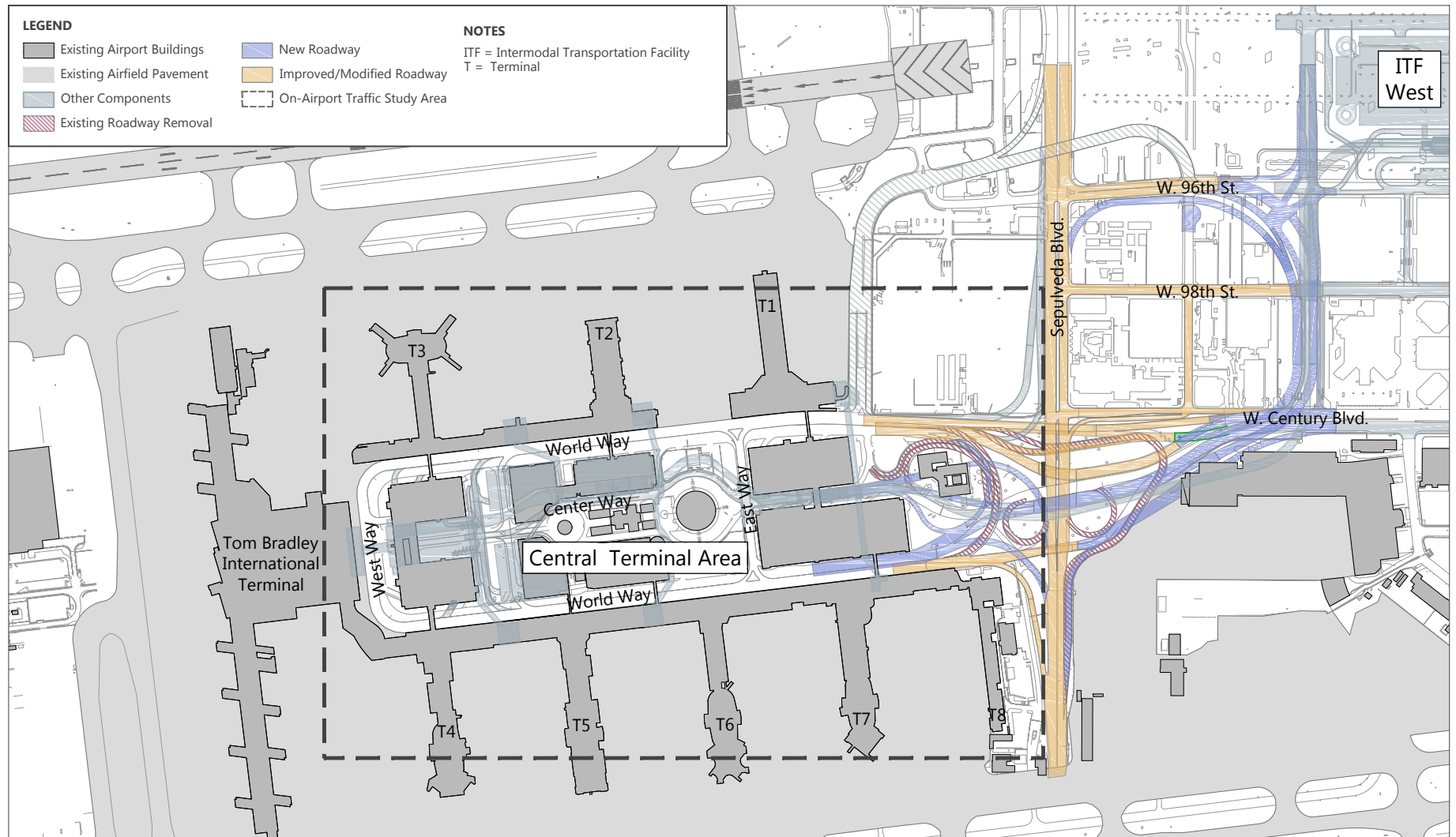
Roadway Improvements Phase I (2024)



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[Preliminary Draft for Discussion Purposes Only]



SOURCE: HNTB Corp., Los Angeles International Airport Layout Plan, July 2012; MapLAX, March 2016.
PREPARED BY: Ricondo & Associates, Inc., August 2017.

FIGURE K-7

Roadway Improvements
Phase II (2030/2035)



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K.8 Future (2024) Traffic Conditions

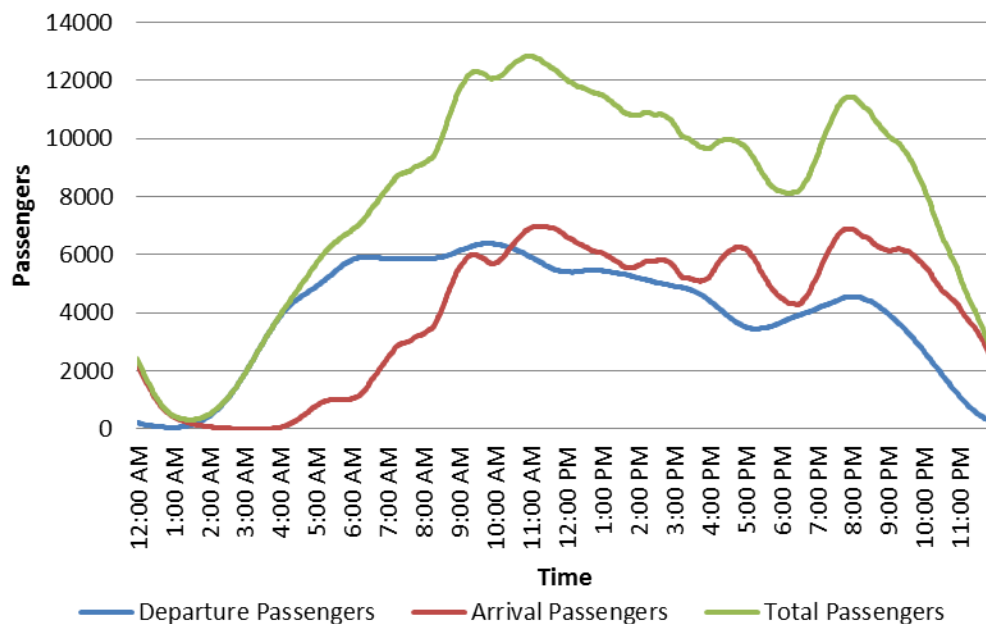
K.8.1 DETERMINATION OF 2024 ANALYSIS PEAK HOURS

To determine the peak hours for the 2024 No Action Alternative and the 2024 Proposed Action Alternative, the 2024 design day passenger schedule for LAX was developed. The FAA's Terminal Area Forecast¹¹ for LAX in 2024 was converted to peak month average day (PMAD) levels to forecast activity at the Airport for a typical Friday in August. To develop the 2024 No Action and Proposed Action Alternatives traffic volumes used to evaluate the CTA's future landside operations, a flight schedule representative of passenger activity level of 86 million annual passengers (MAP) was used.¹² The passenger schedule for 2024 No Action and Proposed Action Alternatives are the same, as the Proposed Action Alternative would not affect the number or type of aircraft operations or passenger activity levels at LAX.

Figure K-8 depicts the rolling hourly terminating and originating passenger flows at the CTA curbsides for the future 2024 conditions. The passenger flows show that in 2024, there would be two pronounced peaks in passenger activity on the arrivals level curbsides with the peak hour occurring from 11:15 a.m. to 12:15 p.m. resulting in a total of 6,976 passengers on the curbside. Similarly, departing passenger flows show that in 2024, the peak hour would occur between 9:51 a.m. to 10:51 a.m. with a total of 6,377 passengers on the curbside.

¹¹ Federal Aviation Administration, *APO Terminal Area Forecast 2014*, January 2015.

¹² Ricondo & Associates, Inc., *LAX 2024 and 2035 Passenger Flight Schedules*, August 2016.

Figure K-8: Future (2024) Rolling Hour Departure and Arrival Passengers Volumes

SOURCE: Ricondo & Associates, Inc. May 2016.

PREPARED BY: Ricondo & Associates, Inc. May 2016.

K.8.2 DETERMINATION OF FUTURE (2024) TRAFFIC VOLUMES

The calibrated trip generation and trip distribution models for the 2014 departures and arrivals peak hours were used as a basis for estimating the peak hour CTA vehicle volumes for each of the future (2024) conditions. As part of this process, adjustments were made to the 2014 passenger mode splits to reflect the two ITFs and CONRAC, and how changes to the regional transportation network would affect passenger mode choice and resultant vehicle activity at the Airport (see Section K.9 for methods used to adjust 2024 mode splits). **Table K-8** and **Table K-9** present the passenger mode splits used to estimate the CTA traffic volumes in 2024 on the departures level and arrivals level, respectively. The passenger mode splits represent the proportion of total airline passengers using each vehicle mode during the peak hours analyzed. The tables also present the modes picking-up or dropping-off passengers at either of the ITFs or CONRAC. These passengers would use the APM to access the CTA.

[DRAFT]

Table K-8: Future (2024) Mode Share – Departing Passengers

MODE	FUTURE (2024) PROPOSED ACTION ALTERNATIVE						FUTURE (2024) NO ACTION ALTERNATIVE MODE SHARE
	EXISTING (2015)	TOTALS	CTA	ITF WEST (APM)	ITF EAST (APM)	CONRAC (APM)	
	MODE SHARE	MODE SHARE	MODE SHARE	MODE SHARE	MODE SHARE	MODE SHARE	
Private Vehicle - Pick-Up/Drop-Off	36.20%	35.18%	32.92%	1.13%	1.13%		35.18%
Private Vehicle - Parking	11.70%	9.65%	4.52%	4.27%	0.85%		9.65%
Charter Van	6.80%	6.80%					7.03%
Taxi	5.80%	5.79%	14.91% ^{1/}	7.41% ^{1/}	2.93% ^{1/}		5.79%
Paid Ride (TNC)	6.90%	10.03%					10.47%
Limo/Town Car	3.00%	2.62%					2.62%
Shared Ride Van	3.60%	3.17%			3.17%		3.26%
Rental Car Shuttle	21.00%	21.00%				21.00%	21.00%
Hotel Shuttle	2.10%	2.11%		2.11%			
FlyAway	1.50%	1.54%	1.54%				2.11%
Charter Bus	0.80%	0.79%			0.79%		1.60%
Transit	0.50%	1.30%			1.30%		0.79%
Total CTA			53.89%				0.49%
Total Non-CTA (APM)	100.00%	100.00%		14.92%	10.17%	21.00%	

NOTE:

1/ Taxi and TNC services are substantially similar and were treated as such for this part of the analysis.

SOURCE: Ricondo & Associates, Inc. in consultation with MapLAX team and LAWA staff, May 2016.

PREPARED BY: Ricondo & Associates, Inc. May 2016.

[DRAFT]

Table K-9: Future (2024) Mode Share – Arriving Passengers

MODE	FUTURE (2024) PROPOSED ACTION ALTERNATIVE						FUTURE (2024) NO ACTION ALTERNATIVE MODE SHARE
	EXISTING (2015)	TOTALS	CTA	ITF WEST (APM)	ITF EAST (APM)	CONRAC (APM)	
	MODE SHARE	MODE SHARE	MODE SHARE	MODE SHARE	MODE SHARE	MODE SHARE	
Private Vehicle - Pick-Up/Drop-Off	35.20%	33.84%	31.59%	1.13%	1.13%		33.82%
Private Vehicle - Parking	10.44%	8.50%	3.92%	3.82%	0.76%		8.50%
Charter Van	6.03%	6.03%					6.23%
Taxi	9.42%	9.42%	16.84% ^{1/}	8.42% ^{1/}	3.28% ^{1/}		9.42%
Paid Ride (TNC)	6.69%	10.00%					10.43%
Limo/Town Car	3.10%	3.10%					3.10%
Shared Ride Van	4.50%	3.69%			3.69%		3.79%
Rental Car Shuttle	18.90%	18.90%				18.90%	18.90%
Hotel Shuttle	2.06%	2.06%		2.06%			
FlyAway	2.45%	2.45%			2.45%		2.06%
Charter Bus	0.70%	0.70%			0.70%		2.53%
Transit	0.50%	1.31%			1.31%		0.70%
Total CTA			52.35%				0.50%
Total Non-CTA (APM)	100.00%	100.00%		15.43%	13.31%	18.90%	

NOTE:

1/ Taxi and TNC services are substantially similar and were treated as such for this part of the analysis.

SOURCE: Ricondo & Associates, Inc. in consultation with MapLAX team and LAWA staff, May 2016.

PREPARED BY: Ricondo & Associates, Inc. May 2016.

K.9 Future (2030/2035) Traffic Conditions

K.9.1 DETERMINATION OF 2030/2035 ANALYSIS PEAK HOURS

To determine the peak hours for the 2030 No Action and Proposed Action Alternatives, the 2030 design day passenger schedule for LAX was developed. The FAA's Terminal Area Forecast¹³ for LAX in 2030 was converted to PMAD levels to forecast activity at the Airport for a typical Friday in August. To develop the 2030 No Action and Proposed Action Alternatives traffic volumes used to evaluate the CTA's future landside

¹³ Federal Aviation Administration, *APO Terminal Area Forecast 2014*, January 2015.

[DRAFT]

operations, a flight schedule representative of passenger activity level of 95 MAP was used.¹⁴ LAWA has utilized for planning purposes related to the proposed LAX Landside Access Modernization Program, a future condition (2035) of 95 MAP. Thus, traffic conditions would be the same for 2030 and 2035. The passenger schedule for 2030 No Action and Proposed Action Alternatives was the same, as the Proposed Action Alternative would not affect the number or type of aircraft operations or passenger activity levels at LAX.

Figure K-9 depicts the rolling hourly terminating and originating passenger flows at the CTA curbsides for 2030/2035 conditions. The passenger flows show that 2030/2035 conditions would produce two pronounced peaks in passenger activity on the arrivals level curbsides with the peak hour occurring from 11:30 a.m. to 12:30 p.m. resulting in a total of 7,659 passengers on the curbside. Similarly, departing passenger flows show the 2035 conditions would result in the peak hour occurring between 9:51 a.m. to 10:51 a.m. with a total of 7,006 passengers on the curbside.

Figure K-9: Future (2030/2035) Rolling Hour Departure and Arrival Passengers Volumes



SOURCE: Ricondo & Associates, Inc. May 2016.

PREPARED BY: Ricondo & Associates, Inc. May 2016.

As part of this process, adjustments were made to the 2014 passenger mode splits to reflect the two ITFs and CONRAC, and how changes to the regional transportation network would affect passenger mode choice and resultant vehicle activity at the Airport. **Table K-10** and **Table K-11** present the passenger mode splits used to estimate the CTA traffic volumes in the 2030/2035 conditions on the departures level and arrivals level,

¹⁴ Ricondo & Associates, Inc., *LAX 2024 and 2035 Passenger Flight Schedules*, August 2016.

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respectively. The passenger mode splits represent the proportion of total airline passengers using each vehicle mode during the peak hours analyzed. The tables also present the modes picking-up or dropping-off passengers at either of the ITFs or CONRAC. These passengers would use the APM to access the CTA.

Table K-10: Future (2030/2035) Mode Share – Departing Passengers

MODE	FUTURE (2030/2035) PROPOSED ACTION ALTERNATIVE						FUTURE (2030/2035) NO ACTION ALTERNATIVE
	EXISTING (2015)	TOTALS	CTA	ITF WEST (APM)	ITF EAST (APM)	CONRAC (APM)	
	MODE SHARE	MODE SHARE	MODE SHARE	MODE SHARE	MODE SHARE	MODE SHARE	MODE SHARE
Private Vehicle - Pick-Up/Drop-Off	36.20%	34.30%	32.00%	1.10%	1.10%		34.30%
Private Vehicle - Parking	11.70%	7.90%	3.60%	3.50%	0.70%		7.90%
Charter Van	6.80%	6.80%					7.20%
Taxi	5.80%	5.80%	16.30%	8.10%	3.20%		5.80%
Paid Ride (TNC)	6.90%	12.70%					13.50%
Limo/Town Car	3.00%	2.30%					2.30%
Shared Ride Van	3.60%	2.80%			2.80%		3.00%
Rental Car Shuttle	21.00%	21.00%				21.00%	21.00%
Hotel Shuttle	2.10%	2.10%		2.10%			2.10%
FlyAway	1.50%	1.50%	1.50%				1.60%
Charter Bus	0.80%	0.80%			0.80%		0.80%
Transit	0.50%	2.00%			2.00%		0.50%
Total CTA		100.00%	53.40%				100.00%
Total Non-CTA (APM)	100.00%			14.90%	10.60%	21.00%	

SOURCE: Ricondo & Associates, Inc. in consultation with MapLAX team and LAWA staff, May 2016.

PREPARED BY: Ricondo & Associates, Inc. May 2016.

[DRAFT]

Table K-11: Future (2030/2035) Mode Share – Arriving Passengers

MODE	FUTURE (2030/2035) PROPOSED ACTION ALTERNATIVE						FUTURE (2030/2035) NO ACTION ALTERNATIVE
	EXISTING (2015)	TOTALS	CTA	ITF WEST (APM)	ITF EAST (APM)	CONRAC (APM)	
	MODE SHARE	MODE SHARE	MODE SHARE	MODE SHARE	MODE SHARE	MODE SHARE	MODE SHARE
Private Vehicle - Pick-Up/Drop-Off	35.21%	32.69%	30.51%	1.09%	1.09%		34.30%
Private Vehicle - Parking	10.44%	6.85%	3.16%	3.08%	0.61%		7.90%
Charter Van	6.03%	6.03%					7.20%
Taxi	9.42%	9.42%	18.50%	9.25%	3.61%		5.80%
Paid Ride (TNC)	6.69%	12.80%					13.50%
Limo/Town Car	3.10%	3.10%					2.30%
Shared Ride Van	4.50%	3.00%			3.00%		3.00%
Rental Car Shuttle	18.90%	18.90%				18.90%	21.00%
Hotel Shuttle	2.06%	2.06%		2.06%			2.10%
FlyAway	2.45%	2.45%			2.45%		1.60%
Charter Bus	0.70%	0.70%			0.70%		0.80%
Transit	0.50%	2.00%			2.00%		0.50%
Total CTA			52.17%				100.00%
Total Non-CTA (APM)	100.00%			15.48%	13.45%	18.90%	

SOURCE: Ricondo & Associates, Inc. in consultation with MapLAX team and LAWA staff, May 2016.

PREPARED BY: Ricondo & Associates, Inc., May 2016.

The 2024/2035 mode split estimates were calculated based on the general mode split trends derived between the LAX 2006 Passenger Survey¹⁵, the LAX 2011 Passenger Survey¹⁶ and the LAX 2015 Passenger Survey¹⁷, together with inputs from LAWA, including defining the modes predicted to be relocated to each of the ITFs. The LAX 2011 Passenger Survey showed a decreasing trend among passengers using private vehicles,

¹⁵ Applied Management and Planning Group, *2006 Air Passenger Survey Final Report Los Angeles International Airport*, conducted between July 31 and August 27, 2006 (peak) as well as October 03 and October 22, 2006 (non-peak), December, 2007.

¹⁶ Unison Consulting, Inc., *Los Angeles International Airport 2011 Passenger Survey*, conducted between August 22 and August 28, 2011 (peak) as well as October 17 and October 24, 2011 (non-peak), August 2012.

¹⁷ Unison Consulting, Inc., *Final Report, Los Angeles International Airport 2015 Air Passenger Survey Results and Findings*, February 2016.

limousines, shared ride vans, and taxis. The LAX 2015 Passenger Survey further accelerated this decreasing trend with more passengers choosing TNCs over private vehicles, limousines, taxis, and shared ride vans. Other modes were also marginally affected by the mode shift to the TNCs.

K.9.2 DETERMINATION OF FUTURE (2030/2035) TRAFFIC VOLUMES

The calibrated trip generation and trip distribution models for the 2014 departures and arrivals peak hours were used as a basis for estimating the peak hour CTA vehicle volumes for each of the future (2030/2035) conditions.

K.10 Evaluation of Traffic Conditions for Future Conditions and Impact Analysis

The trip generation and distribution models described previously in Section K.2 were used to estimate the Phase 1 (2024) No Action and Proposed Action Alternatives traffic volumes required to evaluate the on-Airport intersection operations. Phase 2 (2030/2035) No Action and Proposed Action Alternatives traffic volumes were similarly estimated. This section describes how the traffic volumes derived from the vehicle trip generation and distribution models were used to assess traffic conditions at each of the CTA key intersections. Traffic analyses representing the existing (2014) conditions are described in Section K.3.

K.10.1 PHASE 1 (2024) CTA INTERSECTION ANALYSIS

As discussed in Section K.2, key CTA intersections were analyzed using the TRB Circular 212 CMA methodology. The analysis evaluated the projected operating conditions using the CTA roadway traffic volumes for Phase 1, future (2024) No Action and Proposed Action Alternatives, as provided in **Table K-12** for the Airport peak departures and arrivals hours. The vehicle turning movement volumes were projected using the vehicle trip generation and distribution models for each condition.

As was the case with the existing (2014) conditions intersection analysis, the levels of service definitions for the CMA methodology presented in Table K-4 were used; the results are provided in Table K-12 above. In the future (2024) No Action Alternative, the intersection of World Way South and Center Way (Exit) is projected to operate at LOS E, and the intersections of World Way South and West Way and World Way North and Sky Way (Lower Level) are projected to operate at LOS C. In the future (2024) Proposed Action Alternative, the intersection of World Way South and Center Way (Exit) is projected to operate at LOS D. All other intersections for both the future (2024) No Action and Proposed Action Alternatives would operate at LOS B or better. As a result, under the Proposed Action Alternative traffic conditions, the overall traffic volume in the CTA would decrease compared to the No Action Alternative, leading to a lower V/C ratio and therefore a better LOS.

[DRAFT]

Table K-12: Peak Hour CTA Signalized Intersection Turning Movement Volumes and Level of Service Analysis - Future (2024) Conditions

		NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND				
INTERSECTION	PEAK HOUR ^{1/}	L	T	R	L	T	R	L	T	R	L	T	R	V/C ^{2/}	LOS ^{3/}
2024 NO ACTION ALTERNATIVE															
World Way North and Sky Way (Upper Level)	Departure						1,302						2,644	0.645	B
World Way South and West Way (Upper Level)	Departure				1,116			2,006						0.738	C
World Way South and East Way (Upper Level)	Departure				487			74	3,047					0.638	B
World Way North and Sky Way (Lower Level)	Arrival	386	267				1345						1,880	0.741	C
World Way South and Center Way (Exit) (Lower Level) ^{4/}	Arrival	264	1,202	984					1001	852				0.910	E
East Way and World Way South (Lower Level)	Arrival				361			150	1,866					0.484	A
2024 PROPOSED ACTION ALTERNATIVE															
World Way South and West Way (Upper Level)	Departure				1,184			1,310						0.664	B
World Way South and East Way (Upper Level)	Departure				429			74	2,420					0.524	A
World Way South and Center Way (Exit) (Lower Level) ⁴	Arrival	164	886	725					996	840				0.82	D
East Way and World Way South (Lower Level)	Arrival				318			107	1,312					0.366	A

NOTES:

1/ The departures peak hour occurred from 9:51 a.m. to 10:51 a.m. The arrivals peak hour occurred from 11:15 a.m. to 12:15 p.m.

2/ Volume to capacity ratio.

3/ Level of Service range: A (excellent) to F (failure).

4/ For the World Way South and Center Way intersection, World Way South volumes are noted in the Northbound column and Center Way volumes are noted in the Eastbound column of the table.

SOURCE: Ricondo & Associates, Inc. May 2016.

PREPARED BY: Ricondo & Associates, Inc. May 2016.

K.10.2 PHASE 2 (2030/2035) CTA INTERSECTION ANALYSIS

The Airport peak departures and arrivals hours for the future (2030/2035) No Action and Proposed Action Alternatives are provided in **Table K-13**. In the future (2030/2035) No Action Alternative, the intersection of World Way South and Center Way (Exit) is projected to operate at LOS E, the intersection of World Way South and West Way is projected to operate at LOS D, and the intersections of World Way North and Sky Way (both Upper Level and Lower Level) and World Way South and East Way are projected to operate at LOS C. In the future (2030/2035) Proposed Action Alternative, the intersections of World Way South and West Way and Center Way to SB Sepulveda Ramp and Return Road are projected to operate at LOS C. All other intersections for both the No Action and Proposed Action Alternatives would operate at LOS B or better.

As shown in Tables K-12 and K-13, the V/C ratios decrease under the Proposed Action Alternative as compared to the No Action Alternative. With the construction of the off-Airport facilities as a result of the Proposed Action Alternative, passengers would access/egress the CTA using the APM to be picked-up or dropped-off at the ITFs. Under the Proposed Action Alternative, it was assumed that all the commercial vehicles with the exception of taxis, limos, and TNC would be picking-up and dropping-off at the ITFs. Further, a small number (5 percent) of private vehicles and taxicabs would likely use the kiss and ride facilities at the ITFs. As a result, under the Proposed Action Alternative, the overall traffic volume in the CTA would decrease compared to the No Action Alternative, leading to a lower V/C ratio and therefore a better LOS.

The intersection analysis utilized the Circular 212 (C212) method, which analyzed intersections based on the critical movements that conflict with one another to determine the maximum amount of traffic throughput that can be attained in a given traffic signal cycle. The on-Airport environment is unique and has a different set of constraints than typical street intersections, such as downstream stoppages of traffic as a result of curbside operations, higher proportion of traffic that is unfamiliar with the roadways leading to slower speeds, constant need of decision-making as a result of signage, and a complex mix of vehicle modes. The C212 method is a static intersection analysis method, which calculates the Level of Service (LOS) based on the intersection being isolated from other traffic conditions.

Table K-13: Peak Hour CTA Signalized Intersection Turning Movement Volumes and Level of Service Analysis - Future (2030/2035) Conditions

		NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND				
INTERSECTION	PEAK HOUR ^{1/}	L	T	R	L	T	R	L	T	R	L	T	R	V/C ^{2/}	LOS ^{3/}
2030/2035 NO ACTION ALTERNATIVE															
World Way North and Sky Way (Upper Level)	Departure				1502						3,065			0.746	C
World Way South and West Way (Upper Level)	Departure				1,309			2,310						0.86	D
World Way South and East Way (Upper Level)	Departure				577			81 3,538						0.745	C
World Way North and Sky Way (Lower Level)	Arrival	400	270				1,430						2,048	0.79	C
World Way South and Center Way (Exit) (Lower Level) ^{4/}	Arrival	366	1,318	1,078				925 788						0.92	E
East Way and World Way South (Lower Level)	Arrival				544			127 1,540						0.498	A
2030/2035 PROPOSED ACTION ALTERNATIVE															
World Way South and West Way (Upper Level)	Departure				1,365			1,506						0.765	C
World Way South and East Way (Upper Level)	Departure				496			81 2,790						0.604	B
Center way to SB Sepulveda Ramp and Return Road	Arrival	250						774						0.745	C
East Way and World Way South (Lower Level)	Arrival				477			85 1,028						0.378	A

NOTES:

1/ The departures peak hour occurred from 9:51 a.m. to 10:51 a.m. The arrivals peak hour occurred from 11:30 a.m. to 12:30 p.m.

2/ Volume to capacity ratio.

3/ Level of Service range: A (excellent) to F (failure).

4/ For the World Way South and Center Way intersection, World Way South volumes are noted in the Northbound column and Center Way volumes are noted in the Eastbound column of the table.

SOURCE: Ricondo & Associates, Inc. May 2016.

PREPARED BY: Ricondo & Associates, Inc. May 2016.

[DRAFT]

K.10.3 PHASE 1 (2024) CTA ROADWAY ANALYSIS

As discussed in Section K.2, key CTA roadway links were analyzed by comparing the roadway capacities to the roadway link demand based on the curbside demand at that link. The analysis evaluated the projected operating conditions using the CTA roadway traffic volumes for Phase 1, future (2024) No Action and Proposed Action Alternatives, as provided in **Table K-14** for the Airport peak departures and arrivals hours.

Table K-14: Peak Hour CTA Roadway Volumes and Level of Service Analysis - Future (2024) Conditions

ROADWAY LINK	2024 NO ACTION ALTERNATIVE			2024 PROPOSED ACTION ALTERNATIVE		
	VOLUMES	ROADWAY V/C	LOS	VOLUMES	ROADWAY V/C	LOS
DEPARTURES						
Upper Level Roadway Link Adjacent to Terminal 1	3,946	1.56	F	3,261	0.82	D
Upper Level Roadway Link Adjacent to Terminal 2	3,400	1.41	F	2,772	0.90	D
Upper Level Roadway Link Adjacent to Terminal 3	2,184	1.17	F	1,488	0.50	A
Upper Level Roadway Link Adjacent to TBIT	2,080	1.27	F	1,384	0.50	A
Upper Level Roadway Link Adjacent to Terminal 4	2,006	1.32	F	1,310	0.50	A
Upper Level Roadway Link Adjacent to Terminal 5	3,122	1.79	F	2,494	0.87	D
Upper Level Roadway Link Adjacent to Terminal 6	3,122	1.58	F	2,494	0.87	D
Upper Level Roadway Link Adjacent to Terminal 7	3,534	1.61	F	2,849	0.96	E
ARRIVALS						
Roadway Link Adjacent to Terminal 1 Lower Level Inner Curbside	1,076	2.95	F	867	0.91	E
Roadway Link Adjacent to Terminal 2 Lower Level Inner Curbside	456	0.30	A	326	0.18	A
Roadway Link Adjacent to Terminal 3 Lower Level Inner Curbside	203	0.05	A	121	0.01	A
Roadway Link Adjacent to TBIT Lower Level Inner Curbside	762	0.39	A	567	0.24	A
Roadway Link Adjacent to Terminal 4 Lower Level Inner Curbside	478	0.22	A	358	0.16	A
Roadway Link Adjacent to Terminal 5 Lower Level Inner Curbside	242	0.05	A	149	0.01	A
Roadway Link Adjacent to Terminal 6 Lower Level Inner Curbside	346	0.17	A	226	0.10	A
Roadway Link Adjacent to Terminal 7 Lower Level Inner Curbside	374	0.12	A	248	0.07	A
Roadway Link Adjacent to Terminal 1 Lower Level Outer Curbside	2,551	1.84	F	2,006	0.57	A
Roadway Link Adjacent to Terminal 2 Lower Level Outer Curbside	2,827	1.99	F	2,204	0.89	D
Roadway Link Adjacent to Terminal 3 Lower Level Outer Curbside	2,456	1.86	F	1,890	0.55	A
Roadway Link Adjacent to TBIT Lower Level Outer Curbside	1,874	1.10	F	1,355	0.76	C
Roadway Link Adjacent to Terminal 4 Lower Level Outer Curbside	1,654	0.89	D	1,146	0.53	A
Roadway Link Adjacent to Terminal 5 Lower Level Outer Curbside	2,054	2.03	F	1,500	1.51	F
Roadway Link Adjacent to Terminal 6 Lower Level Outer Curbside	2,120	1.12	F	1,540	0.66	B
Roadway Link Adjacent to Terminal 7 Lower Level Outer Curbside	2,178	1.09	F	1,628	0.67	B

NOTE: The departures peak hour occurred from 9:51 a.m. to 10:51 a.m. The arrivals peak hour occurred from 11:15 a.m. to 12:15 p.m.

SOURCE: Ricondo & Associates, Inc. May 2016.

PREPARED BY: Ricondo & Associates, Inc. May 2016.

[DRAFT]

K.10.4 PHASE 2 (2030/2035) CTA ROADWAY ANALYSIS

The roadway link analysis evaluated the projected operating conditions using the CTA roadway traffic volumes for Phase 2, future (2030/2035) No Action and Proposed Action Alternatives, as provided in **Table K-15** for the Airport peak departures and arrivals hours.

Table K-15: Peak Hour CTA Roadway Volumes and Level of Service Analysis - Future (2030/2035) Conditions

ROADWAY LINK	2030/2035 NO ACTION ALTERNATIVE			2030/2035 PROPOSED ACTION ALTERNATIVE		
	VOLUMES	ROADWAY V/C	LOS	VOLUMES	ROADWAY V/C	LOS
DEPARTURES						
Upper Level Roadway Link Adjacent to Terminal 1	4,567	1.91	F	3,738	0.97	E
Upper Level Roadway Link Adjacent to Terminal 2	3,924	1.62	F	3,176	1.03	F
Upper Level Roadway Link Adjacent to Terminal 3	2,505	1.35	F	1,701	0.59	A
Upper Level Roadway Link Adjacent to TBIT	2,391	1.57	F	1,587	0.58	A
Upper Level Roadway Link Adjacent to Terminal 4	2,310	1.63	F	1,506	0.60	A
Upper Level Roadway Link Adjacent to Terminal 5	3,619	2.07	F	2,871	1.04	F
Upper Level Roadway Link Adjacent to Terminal 6	3,619	1.95	F	2,871	1.00	F
Upper Level Roadway Link Adjacent to Terminal 7	4,115	1.87	F	3,286	1.15	F
ARRIVALS						
Roadway Link Adjacent to Terminal 1 Lower Level Inner Curbside	1,123	3.06	F	900	2.29	F
Roadway Link Adjacent to Terminal 2 Lower Level Inner Curbside	474	0.29	A	338	0.15	A
Roadway Link Adjacent to Terminal 3 Lower Level Inner Curbside	195	0.05	A	110	0.02	A
Roadway Link Adjacent to TBIT Lower Level Inner Curbside	492	0.21	A	335	0.15	A
Roadway Link Adjacent to Terminal 4 Lower Level Inner Curbside	336	0.15	A	226	0.09	A
Roadway Link Adjacent to Terminal 5 Lower Level Inner Curbside	527	0.35	A	376	0.20	A
Roadway Link Adjacent to Terminal 6 Lower Level Inner Curbside	787	0.45	A	594	0.27	A
Roadway Link Adjacent to Terminal 7 Lower Level Inner Curbside	658	0.21	A	495	0.10	A
Roadway Link Adjacent to Terminal 1 Lower Level Outer Curbside	2,782	1.93	F	2,190	0.70	B
Roadway Link Adjacent to Terminal 2 Lower Level Outer Curbside	2,895	2.08	F	2,243	1.17	F
Roadway Link Adjacent to Terminal 3 Lower Level Outer Curbside	2,260	1.63	F	1,725	0.56	A
Roadway Link Adjacent to TBIT Lower Level Outer Curbside	1,783	1.05	F	1,281	0.72	C
Roadway Link Adjacent to Terminal 4 Lower Level Outer Curbside	1,594	0.74	C	1,100	0.36	A
Roadway Link Adjacent to Terminal 5 Lower Level Outer Curbside	2,310	2.56	F	1,715	1.93	F
Roadway Link Adjacent to Terminal 6 Lower Level Outer Curbside	1,927	1.17	F	1,373	0.75	C
Roadway Link Adjacent to Terminal 7 Lower Level Outer Curbside	2,122	1.14	F	1,555	0.75	C

NOTE: The departures peak hour occurred from 9:51 a.m. to 10:51 a.m. The arrivals peak hour occurred from 11:15 a.m. to 12:15 p.m.

SOURCE: Ricondo & Associates, Inc. May 2016.

PREPARED BY: Ricondo & Associates, Inc. May 2016.

K.10.5 ROADWAY LINK ANALYSIS RESULTS

As presented in Tables K-14 and K-15, the roadway LOS under the No Action Alternative in future years 2024, 2030, and 2035 would be severely congested, with 16 of the 24 CTA roadway links operating at LOS F. However, for every analyzed key link, the Proposed Action Alternative would improve the V/C ratio compared to the future No Action Alternative, and in no case would the Proposed Action Alternative cause LOS to degrade. Therefore, the Proposed Action Alternative would not contribute to any significant cumulative impacts on roadway links.

Construction of the proposed off-Airport facilities would result in passengers accessing/egressing the CTA using the APM to be picked-up or dropped-off at the ITFs. Under the future 2024 and 2030/2035 Proposed Action Alternative, it was assumed that all commercial vehicles with the exception of taxis, limos, and TNC would be picking-up and dropping-off at the ITFs. Further, a small number (5 percent) of private vehicles and taxicabs would likely use the "kiss and ride" facilities at the ITFs. As a result, the overall traffic volume in the CTA would decrease under in future years 2024 and 2030/2035 for the Proposed Action Alternative compared to the future No Action Alternative, leading to a lower V/C ratio and therefore a better LOS. As shown in Tables K-14 and K-15, the lower level outer roadways show a substantial improvement under the future Proposed Action Alternative compared to the future No Action Alternative because of the elimination of the commercial vehicles accessing the CTA leading to no curbside utilizations on the outer curbsides. As explained previously, the roadway LOS is a factor of the curbside utilization and with no curbside parking, the roadway capacity would substantially improve. Certain links on the lower level would still operate at an LOS F on the lower level outer roadways under the future 2024 and 2030/2035 Proposed Action Alternative. However, under the future Proposed Action Alternative, a substantial reduction in V/C ratio would be achieved, which would improve traffic flows compared to the future No Action Alternative.

K.11 Conclusions

The results from the above analyses show that implementation of the Proposed Action Alternative would not cause significant on-Airport traffic-related impacts to the intersections during either the arrivals or departures level peak hours. The Proposed Action Alternative would reduce the volume of traffic in the CTA by transferring traffic to off-Airport facilities. The elimination of a portion of traffic in the CTA would also substantially reduce the weaving at the slip ramps connecting the lower level inner and outer curbsides, thereby resulting in a smoother traffic flow.

The results of the roadway link analysis demonstrated that the overall traffic volume in the CTA with implementation of the Proposed Action Alternative would decrease compared to the No Action Alternative, in many instances resulting in an improved LOS compared to the No Action Alternative. Even in cases where LOS was not improved, there was a reduction in the V/C ratio leading to an improved experience for Airport users. The lower level outer roadways show a substantial improvement under the Proposed Action Alternative compared to the No Action Alternative because of the reduction in traffic accessing the CTA.

Appendix L

Off-Airport Traffic

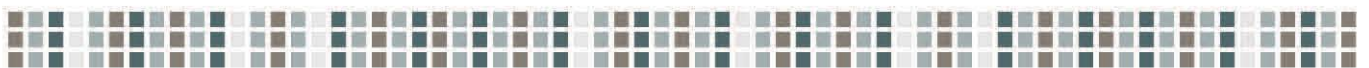


Table of Contents

Appendix L.	Off-Airport Traffic	L-1
L.1	Introduction.....	L-1
L.2	Methodology.....	L-2
L.2.1	OFF-AIRPORT TRAFFIC ANALYSIS STUDY AREA	L-2
L.2.2	INTERSECTION LEVEL OF SERVICE	L-2
L.2.3	DESCRIPTION OF TRAFFIC MODEL.....	L-4
L.2.4	EXISTING TRAFFIC CONDITIONS	L-5
L.2.5	FUTURE TRAFFIC CONDITIONS	L-10
L.2.6	FUTURE CONDITIONS COMPARISON METHODOLOGY.....	L-12
L.3	Existing Conditions.....	L-15
L.3.1	EXISTING STREET SYSTEM	L-15
L.3.2	EXISTING TRAFFIC CONDITIONS	L-17
L.4	Significance Thresholds.....	L-17
L.4.1	CITY OF LOS ANGELES	L-17
L.4.2	CITY OF EL SEGUNDO.....	L-18
L.4.3	CITY OF INGLEWOOD.....	L-18
L.4.4	CITY OF HAWTHORNE	L-18
L.4.5	COUNTY OF LOS ANGELES	L-19
L.5	Off-Airport Transportation System Improvements	L-19
L.6	Proposed Action Alternative-Related Improvements.....	L-20
L.7	Evaluation of Traffic Conditions for Future Conditions and Impact Analysis.....	L-22
L.7.1	FUTURE 2024 OFF-AIRPORT TRAFFIC IMPACTS.....	L-22
L.7.2	FUTURE 2030 OFF-AIRPORT TRAFFIC IMPACTS.....	L-25
L.7.3	FUTURE 2035 OFF-AIRPORT TRAFFIC IMPACTS.....	L-29
L.8	Conclusions.....	L-33

List of Tables

Table L-1: Level of Service Definitions for Signalized Intersections	L-3
Table L-2: Level of Service Definitions for Stop-Controlled Intersections	L-4
Table L-3: Summary of Existing (2015) Trip Generation	L-6
Table L-4: Summary of Intersection Level of Service Analysis – 2015 Existing Conditions.....	L-7
Table L-5: Detailed Intersection Level of Service Analysis – 2015 Existing Conditions	L-8
Table L-6: 2024 Trip Generation	L-13
Table L-7: 2035 Trip Generation	L-14
Table L-8: City of Los Angeles – Significant Impact Criteria	L-18
Table L-9: City of Hawthorne – Significant Impact Criteria.....	L-19
Table L-10: County of Los Angeles – Significant Impact Criteria.....	L-19
Table L-11: Intersection Level of Service Analysis – Future 2024 Proposed Action Alternative.....	L-22
Table L-12: Future (2024) Off-Airport Traffic Impacts.....	L-23
Table L-13: Intersection Level of Service Analysis – Future 2030 Proposed Action Alternative.....	L-25
Table L-14: Future (2030) Off-Airport Traffic Impacts.....	L-27
Table L-15: Intersection Level of Service Analysis – Future 2035 Proposed Action Alternative.....	L-29
Table L-16: Future (2035) Off-Airport Traffic Impacts.....	L-31

Appendix L. Off-Airport Traffic

The analysis presented in this document addresses the potential traffic impacts for the off-Airport surface transportation system adjacent to the Los Angeles International Airport (LAX) to traffic-related impacts associated with the operation of the LAX Landside Access Modernization Program (Proposed Action Alternative). The primary objective of this analysis is to evaluate the changes in existing and future traffic conditions associated with the implementation of the Proposed Action Alternative.

L.1 Introduction

The off-Airport transportation analysis for the Proposed Action Alternative addresses operational traffic-related impacts outside the Airport boundaries, including arterial roads that serve traffic approaching and departing the Airport environs. The Proposed Action Alternative represents a major change in the ground access system used by passengers and employees to access the Airport. The primary focus of the off-Airport traffic analysis is on changes in traffic conditions that would result from the ground access system improvements proposed under the Proposed Action Alternative. The off-Airport transportation analysis completed for the Proposed Action Alternative accounts for increases in Airport-related traffic that would occur in conjunction with increases in Airport passenger activity projected to occur by 2024, 2030, and 2035. Such future growth in passenger activity levels at LAX is independent of the Proposed Action Alternative and would occur even if no improvements were implemented; however, under the Proposed Action Alternative, both existing and future passengers and employees would have more modal choices in how they access LAX resulting in a more balanced multi-modal ground access system. The following scenarios were analyzed in the Proposed Action Alternative off-Airport transportation impact analysis:

- Future (2024) No Action Alternative (i.e., future conditions with projected growth in background vehicle trips in the area surrounding LAX and roadway improvements and in Airport-related vehicle trips projected to occur by 2024, but without the Proposed Action Alternative components)
- Future (2024) Proposed Action Alternative (i.e., the future conditions described above for the 2024 No Action Alternative plus the ground access improvements associated with the Proposed Action Alternative components)
- Future (2030) No Action Alternative (i.e., future conditions with projected growth in background vehicle trips in the area surrounding LAX and roadway improvements and in Airport-related vehicle trips projected to occur by 2030, but without the Proposed Action Alternative components)

- Future (2030) Proposed Action Alternative (i.e., the future conditions described above for the 2030 Future Without the Proposed Action Alternative scenario plus the ground access improvements associated with the Proposed Action Alternative components)
- Future (2035) No Action Alternative (i.e., future conditions with projected growth in background vehicle trips in the area surrounding LAX and roadway improvements and in Airport-related vehicle trips projected to occur by 2035, but without the Proposed Action Alternative components)
- Future (2035) Proposed Action Alternative (i.e., the future conditions described above for the 2035 Future Without the Proposed Action Alternative scenario plus the ground access improvements associated with the Proposed Action Alternative components)

In addition to this appendix, further details regarding methodology, existing conditions, and supporting analyses can be found in the *Draft Transportation Study for the Landside Access Modernization Program* [Draft Environmental Impact Report] *DEIR*.¹

L.2 Methodology

The methodology and base assumptions used in this analysis were established in conjunction with the California Department of Transportation (Caltrans) and City of Los Angeles Department of Transportation (LADOT). The methodology and assumptions were shared with the City of Culver City, City of Inglewood, City of El Segundo, and the County of Los Angeles Department of Transportation.

L.2.1 OFF-AIRPORT TRAFFIC ANALYSIS STUDY AREA

The off-Airport traffic analysis study area was delineated through coordination with the local jurisdictions, including the City of Los Angeles, City of Culver City, City of Inglewood, City of El Segundo, City of Hawthorne, County of Los Angeles and Caltrans. The traffic analysis study area encompasses approximately 8 square miles (see Figure 4-11); it is generally bounded on the north by Manchester Boulevard; on the south by Mariposa Avenue; on the west by Main Street/Loyola Boulevard; and on the east by Inglewood Avenue. A total of 70 intersections have been analyzed for the morning (a.m.) and evening (p.m.) peak hours; 34 of these intersections (immediately adjacent to or in the vicinity of the Proposed Project Area) have been selected for a midday off-peak hour traffic impact evaluation.

L.2.2 INTERSECTION LEVEL OF SERVICE

Level of service (LOS) is a qualitative measure used to describe the condition of traffic flow, ranging from excellent conditions at LOS A to overloaded conditions at LOS F. LOS D is typically recognized as the minimum acceptable level of service in urban areas. LOS definitions for signalized and un-signalized intersections are provided in **Table L-1** and **Table L-2**.

¹ Raju Associates, Inc., *Draft Transportation Study for the Landside Access Modernization Program DEIR*, September 2016, Available: http://connectinglax.com/files/LAMP_DEIR_Appendix%20O_report.pdf, Accessed: February 28, 2017.

[DRAFT]

For the City of Los Angeles study locations, including those shared with other jurisdictions, the *Critical Movement Analysis-Planning*² (CMA) method of intersection capacity analysis was used to determine the intersection volume to capacity (V/C) ratio and corresponding level of service at the signalized study intersections. Level of service spreadsheets developed by LADOT were used to implement the CMA Circular 212 Method methodology. Table L-1 defines the ranges of V/C ratios and corresponding levels of service for signalized intersections.

The Intersection Capacity Utilization (ICU) method was used to determine the intersection V/C ratio and corresponding level of service for study intersections within the Cities of Inglewood, El Segundo, Hawthorne, and the County of Los Angeles per their study requirements. A capacity of 1,600 vehicles per lane per hour was assumed, a total of 2,880 vehicles per hour for dual left-turn lanes, and a 10 percent calculation factor for the loss time of the yellow signal clearance periods were utilized in the capacity calculations.

The Highway Capacity Manual (HCM) 2010 method of unsignalized intersection analysis was used to determine the delay (in seconds) and corresponding level of service at the stop-controlled intersections. Table L-2 defines the ranges of delay and corresponding levels of service for unsignalized intersections.

Table L-1: Level of Service Definitions for Signalized Intersections

LEVEL OF SERVICE	VOLUME/CAPACITY RATIO	DEFINITION
A	0.000 – 0.600	EXCELLENT. No vehicle waits longer than one red light and no approach phase is fully used.
B	>0.600 - 0.700	VERY GOOD. An occasional approach phase is fully utilized; many drivers begin to feel somewhat restricted within groups of vehicles.
C	>0.700 - 0.800	GOOD. Occasionally drivers may have to wait through more than one red light; backups may develop behind turning vehicles.
D	>0.800 - 0.900	FAIR. Delays may be substantial during portions of the rush hours, but enough lower volume periods occur to permit clearing of developing lines, preventing excessive backups.
E	>0.900 - 1.000	POOR. Represents the most vehicles intersection approaches can accommodate; may be long lines of waiting vehicles through several signal cycles.
F	> 1.000	FAILURE. Backups from nearby locations or on cross streets may restrict or prevent movement of vehicles out of the intersection approaches. Tremendous delays with continuously increasing queue lengths.

SOURCE: Transportation Research Board, *Transportation Research Circular No. 212, Interim Materials on Highway Capacity*, January 1980.

PREPARED BY: Ricondo and Associates, Inc., July 2016.

² Transportation Research Board, *Transportation Research Circular No. 212, Interim Materials on Highway Capacity*, January 1980.

Table L-2: Level of Service Definitions for Stop-Controlled Intersections

LEVEL OF SERVICE	AVERAGE TOTAL DELAY (SECONDS/VEHICLE)
A	< 10.0
B	> 10.0 and $\leq$ 15.0
C	> 15.0 and $\leq$ 25.0
D	> 25.0 and $\leq$ 35.0
E	> 35.0 and $\leq$ 50.0
F	> 50.0

SOURCE: Transportation Research Board, *Highway Capacity Manual*, 2010.

PREPARED BY: Ricondo and Associates, Inc., July 2016.

L.2.3 DESCRIPTION OF TRAFFIC MODEL

Utilizing TransCAD Version 7.0 modeling software, a detailed and updated travel demand forecasting model (updated City of Los Angeles Travel Demand Model) was developed for the traffic analysis study area using the Southern California Association of Governments' (SCAG) Regional Transportation Plan (RTP) 2012 Transportation Model (the most current regional model available at the time this analysis was being prepared) and the calibrated and validated City of Los Angeles' Travel Demand Model as the base. The Model produces a.m. and p.m. peak period results; midday off-peak period results; vehicular and transit flows on the transportation network within the traffic analysis study area based on comprehensive land use and socio-economic input data (SED); and a detailed representation of the transportation network. The model uses a conventional 4-step process consisting of trip generation, trip distribution, modal split, and assignment.

The updates to the updated City of Los Angeles Model included both the network enhancements for the various simulation time periods as well as the required updates to the land use and socioeconomic data used as input into the modeling process. Network enhancements included the following modifications: incorporation of freeway ramps and collector streets; verification of key roadway attributes; update of the Traffic Analysis Zone (TAZ) structure and network; and incorporation of all traffic analysis study area roadway links, intersections, and on-street parking. The land use and socioeconomic data for the model was modified to include: updated population, dwelling units, and employment; known and related projects in the traffic analysis study area; and verification of land use and socio-economic data within the TAZs.

Working closely with the surrounding jurisdictions, a total of 212 probable development projects were analyzed. Therefore, the impact analysis for off-airport traffic includes cumulative growth projections related to vehicle trips in the area surrounding LAX and traffic generated by reasonably foreseeable planned development. The location and size of all the probable development projects within the traffic analysis study area was compared to the model input growth data for the corresponding TAZ. Appropriate increases to land use data were made to increase all the probable development projects' growth in these TAZs. The networks in the model were modified to reflect roadway modifications in the traffic analysis study area, regional improvement plans, local specific plans, and programmed improvements.

Utilizing the calibrated model, the future years 2024 and 2035 conditions (including the base highway network and land use/socioeconomic data changes) were forecast in a manner consistent with the regional SCAG 2012 Transportation Model.

L.2.4 EXISTING TRAFFIC CONDITIONS

L.2.4.1 Traffic Count Data

Existing traffic volumes were compiled using video footage during morning and evening peak hours collected between 2013 and 2015. Data for 42 of 70 intersections was collected in 2015; data for 26 intersections was collected in 2014. Traffic counts at the remaining two intersections were obtained from 2013.³ Consistent with the City of Los Angeles Traffic Impact Guidelines, traffic counts at intersections within the City of Los Angeles jurisdiction were generally obtained from 7:00-10:00 a.m. and from 3:00-6:00 p.m. The counts at the remaining intersections under other jurisdictions were obtained from 7:00-9:00 a.m. and 4:00-6:00 p.m. In addition to morning and evening peak hour traffic counts, traffic counts were also conducted at 34 intersections for the midday peak hour. The counts were generally obtained between 11:00 a.m. and 2:00 p.m.

L.2.4.2 Existing Trip Generation

LAWA publishes an annual traffic generation report for LAX, including all trips associated with LAX and its facilities. The 2014 report, *Traffic Generation Report – Los Angeles International Airport*,⁴ summarizes August 2014 traffic generation for LAX. These trips include hotel and rental car shuttles, on-Airport parking, off-Airport parking, employee parking, cargo facilities and rental car facilities. All traffic entering and exiting the CTA was recorded and counted using LAWA's Traffic and Automated Vehicle Identification System (TRAVIS) and loop counts. Traffic counts at other driveways to various Airport-related facilities that make up the overall trip generation are collected annually on Fridays in August. Utilizing the August 2014 data, a trip generation model was developed as part of the On-Airport Traffic analysis and calibrated for non-summer commuter peak weekday for LAX facilities including the CTA, on-Airport parking, off-Airport parking and rental car facilities. The trip generation of the remaining LAX facilities such as the cargo area and the West Aircraft Maintenance Area was compiled from the driveway counts collected as part of the annual surveys.

The resulting existing 2015 trip generation estimates are summarized in **Table L-3**. As indicated in the table, under the existing 2015 peak weekday conditions, LAX and associated facilities generate a total of approximately 12,300 trips in the morning peak hour, 16,000 trips in the midday peak hour, and 12,800 trips in the evening peak hour.

³ Traffic data collected in years 2013 and 2014 were adjusted upwards by 1.5 percent per year to represent existing 2015 conditions. These traffic volumes reflect typical weekday operations during current year 2015 conditions.

⁴ Los Angeles World Airports, *Traffic Generation Report, Los Angeles International Airport, August 2014*, December 2014.

Table L-3: Summary of Existing (2015) Trip Generation

	2015		
	IN	OUT	TOTAL
AM PEAK HOUR			
Central Terminal Area (CTA)	4,039	3,776	7,815
Airport Parking	148	19	167
Off-Airport Parking	233	55	288
Rental Car Facilities	766	513	1,279
Employee Parking	759	280	1,039
Cargo Facilities	978	772	1,750
TOTAL	6,923	5,415	12,338
MD PEAK HOUR			
Central Terminal Area (CTA)	5,219	5,377	10,596
Airport Parking	114	51	165
Off-Airport Parking	191	97	288
Rental Car Facilities	1,232	863	2,095
Employee Parking	639	549	1,188
Cargo Facilities	949	816	1,765
TOTAL	8,344	7,753	16,097
PM PEAK HOUR			
Central Terminal Area (CTA)	3,956	4,428	8,384
Airport Parking	102	38	140
Off-Airport Parking	116	106	222
Rental Car Facilities	541	573	1,114
Employee Parking	338	586	924
Cargo Facilities	940	1,116	2,056
TOTAL	5,993	6,847	12,840

SOURCE: Ricondo and Associates, Inc., July 2016.

PREPARED BY: Ricondo and Associates, Inc., July 2016.

L.2.4.3 Existing Operating Conditions

A summary of the number of intersections operating at each LOS is shown in **Table L-4**. Existing intersection operations during the weekday morning, midday, and evening peak hours are shown in **Table L-5**. Table L-5 summarizes the V/C ratios and corresponding LOS at each of the analyzed locations.

The existing traffic volumes presented in Table L-3 for a.m. and p.m. peak hours were used in conjunction with the level of service methodologies described earlier, and the current intersection characteristics, to determine the existing operating conditions at the analyzed intersections.

Table L-4: Summary of Intersection Level of Service Analysis – 2015 Existing Conditions

LEVEL OF SERVICE	AM PEAK HOUR	MD PEAK HOUR	PM PEAK HOUR
A	25	24	21
B	13	6	9
C	19	3	22
D	11	0	10
E	1	1	6
F	1	0	2
Total	70	34	70

NOTE:

SOURCE: Raju Associates, Inc., *Draft Transportation Study for the Landside Access Modernization Program DEIR*, September 2016.

PREPARED BY: Ricondo and Associates, Inc., September 2016.

[DRAFT]

Table L-5 (1 of 3): Detailed Intersection Level of Service Analysis – 2015 Existing Conditions

MAP NO.	INTERSECTION	A.M. PEAK HOUR		M.D. PEAK HOUR		P.M. PEAK HOUR	
		V/C	LOS	V/C	LOS	V/C	LOS
1	Sepulveda Boulevard and Manchester Avenue	0.715	C	0.597	A	0.808	D
2	Sepulveda Boulevard and La Tijera Boulevard	0.656	B	0.639	B	0.712	C
3	Sepulveda Boulevard and Westchester Parkway	0.735	C	0.748	C	0.784	C
4	Sepulveda Boulevard and Lincoln Boulevard	0.601	B	0.478	A	0.620	B
5	Sepulveda Boulevard and Century Boulevard	0.754	C	0.594	A	0.689	B
6	Sepulveda Boulevard and I-105 Westbound Ramps (n/o Imperial Highway)	1.078	F	0.921	E	0.901	E
7	Sepulveda Boulevard and Imperial Highway	0.774	C	0.684	B	1.089	F
8	Sepulveda Boulevard and Mariposa Avenue	0.748	C	---	---	0.782	C
9	Sepulveda Boulevard and Grand Avenue	0.820	D	---	---	0.875	D
10	Sepulveda Boulevard and El Segundo Boulevard	0.815	D	---	---	0.967	E
11	Sepulveda Eastway and Westchester Parkway	0.407	A	---	---	0.602	B
12	La Tijera Boulevard and Manchester Avenue	0.508	A	0.524	A	0.504	A
13	Jenny Avenue and Westchester Parkway	0.197	A	0.232	A	0.330	A
14	Avion Drive and Century Boulevard	0.381	A	0.320	A	0.292	A
15	La Tijera Boulevard and Airport Boulevard	0.442	A	0.349	A	0.475	A
16	Airport Boulevard and Manchester Avenue	0.573	A	0.633	B	0.699	B
17	Airport Boulevard and Arbor Vitae Street/Westchester Parkway	0.661	B	0.587	A	0.763	C
18	Airport Boulevard and 96th Street	0.279	A	0.332	A	0.376	A
19	Airport Boulevard and 98th Street	0.374	A	0.397	A	0.467	A
20	Airport Boulevard and Century Boulevard	0.565	A	0.451	A	0.459	A
21	Nash Street /I-105 Westbound Ramps and Imperial Highway	0.414	A	---	---	0.350	A
22	Nash Street and El Segundo Boulevard	0.551	A	---	---	0.579	A
23	Douglas Street and Imperial Highway	0.346	A	---	---	0.579	A
24	Douglas Street and El Segundo Boulevard	0.736	C	---	---	0.854	D
25	I-405 Northbound Ramps and La Tijera Boulevard	0.804	D	0.706	C	0.773	C
26	I-405 Southbound Ramps and La Tijera Boulevard	0.740	C	0.588	A	0.754	C
27	Bellanca Avenue and Century Boulevard	0.471	A	---	---	0.437	A
28	Aviation Boulevard/Florence Avenue and Manchester Avenue	0.697	B	0.583	A	0.629	B
29	Aviation Boulevard and Arbor Vitae Street	0.802	D	0.521	A	0.720	C
30	Aviation Boulevard and Century Boulevard	0.730	C	0.554	A	0.729	C

[DRAFT]

Table L-5 (2 of 3): Detailed Intersection Level of Service Analysis – 2015 Existing Conditions

MAP NO.	INTERSECTION	A.M. PEAK HOUR		M.D. PEAK HOUR		P.M. PEAK HOUR	
		V/C	LOS	V/C	LOS	V/C	LOS
31	Aviation Boulevard and 104th Street	0.520	A	0.388	A	0.507	A
32	Aviation Boulevard and 111th Street	0.475	A	0.327	A	0.459	A
33	Aviation Boulevard and Imperial Highway	0.576	A	0.517	A	0.736	C
34	Aviation Boulevard and West 120th Street	0.856	D	---	---	0.728	C
35	Aviation Boulevard and El Segundo Boulevard	0.863	D	---	---	0.955	E
36	Hindry Avenue and Manchester Boulevard	0.640	B	---	---	0.593	A
37	Hindry Avenue and Arbor Vitae Street	19.0 s	C	13.2 s	B	14.6 s	B
38	Concourse Way and Century Boulevard	0.249	A	---	---	0.323	A
39	I-105 Ramps (e/o Aviation Boulevard) and Imperial Highway	0.622	B	0.275	A	0.531	A
40	La Cienega Boulevard and Florence Avenue	0.715	C	0.722	C	0.952	E
41	La Cienega Boulevard and Manchester Boulevard	0.705	C	0.672	B	0.718	C
42	La Cienega Boulevard and Arbor Vitae Street	0.740	C	0.562	A	0.711	C
43	La Cienega Boulevard and I-405 Southbound Ramps (n/o Century Boulevard)	0.742	C	0.494	A	0.610	B
44	La Cienega Boulevard and Century Boulevard	0.891	D	0.511	A	0.823	D
45	La Cienega Boulevard and I-405 Southbound Ramps (s/o Century Boulevard)	0.352	A	---	---	0.267	A
46	La Cienega Boulevard and 104th Street	0.309	A	---	---	0.300	A
47	La Cienega Boulevard and Lennox Boulevard	0.447	A	---	---	0.576	A
48	La Cienega Boulevard and 111th Street	0.276	A	---	---	0.233	A
49	La Cienega Boulevard and I-405 Southbound Ramps (n/o Imperial Highway)	0.442	A	---	---	0.275	A
50	La Cienega Boulevard and Imperial Highway	0.406	A	0.176	A	0.648	B
51	La Cienega Boulevard and West 120th Street	0.644	B	---	---	0.841	D
52	La Cienega Boulevard and El Segundo Boulevard	0.616	B	---	---	0.814	D
53	I-405 Northbound Off-Ramp/Ash Avenue and Manchester Avenue	0.842	D	0.655	B	0.707	C
54	I-405 Northbound Ramps and Century Boulevard	0.879	D	0.584	A	0.715	C
55	I-405 Northbound Ramps (e/o La Cienega Boulevard) and Imperial Highway	0.618	B	---	---	0.852	D
56	I-405 Northbound Ramps and El Segundo Boulevard	0.705	C	---	---	0.726	C
57	Inglewood Avenue and Manchester Boulevard	0.731	C	---	---	0.740	C
58	Inglewood Avenue and Arbor Vitae Street	0.642	B	---	---	0.703	C
59	Inglewood Avenue and Century Boulevard	0.784	C	---	---	0.877	D

Table L-5 (3 of 3): Detailed Intersection Level of Service Analysis – 2015 Existing Conditions

MAP NO.	INTERSECTION	A.M. PEAK HOUR		M.D. PEAK HOUR		P.M. PEAK HOUR	
		V/C	LOS	V/C	LOS	V/C	LOS
60	Inglewood Avenue and Lennox Boulevard	0.828	D	---	---	0.915	E
61	Inglewood Avenue and Imperial Highway	0.945	E	---	---	1.021	F
62	Inglewood Avenue and El Segundo Boulevard	0.776	C	---	---	0.900	D
63	La Brea Avenue and Manchester Boulevard	0.792	C	---	---	0.746	C
64	La Brea Avenue and Arbor Vitae Street	0.553	A	---	---	0.690	B
65	La Brea Avenue/Hawthorne Boulevard and Century Boulevard	0.757	C	---	---	0.778	C
66	Hawthorne Boulevard and Lennox Boulevard	0.689	B	---	---	0.761	C
67	Hawthorne Boulevard and I-105 Westbound Ramps/111th Street	0.843	D	---	---	0.982	E
68	Hawthorne Boulevard and Imperial Avenue	0.697	B	---	---	0.851	D
69	Hawthorne Boulevard and 120th Street	0.570	A	---	---	0.711	C
70	Hawthorne Boulevard and El Segundo Boulevard	0.644	B	---	---	0.765	C

NOTES: --- = not studied

SOURCES: Raju Associates, Inc., *Draft Transportation Study for the Landside Access Modernization Program DEIR*, September 2016.

PREPARED BY: Ricondo and Associates, Inc., February 2017.

L.2.5 FUTURE TRAFFIC CONDITIONS

L.2.5.1 Future Traffic Volumes

The future traffic volume forecasts were developed using models and the land use and socioeconomic data from SCAG's 2012 Regional Transportation Plan model data set; however, the data set was also updated to include planned roadway improvements, as outlined in Section L.5. To determine the future trip generation, adjustments were made to the 2014 passenger mode splits to reflect how changes to the regional transportation network would affect passenger mode choice and resultant vehicle activity at the Airport. The passenger mode splits represent the proportion of total airline passengers using each vehicle mode during the peak hours analyzed. The volume of vehicles by mode were determined based on a calibrated trip generation model constructed using the traffic data collected on August 8, 2014. This model used the LAX 2011 Passenger Survey as the basis for estimating the passenger mode splits. The 2024 and 2035 mode split estimates were calculated based on the general mode split trends derived between the LAX 2006 Passenger Survey⁵, the LAX 2011 Passenger Survey⁶ and the LAX 2015 Passenger Survey⁷, together with inputs from

⁵ Applied Management and Planning Group, *2006 Air Passenger Survey Final Report Los Angeles International Airport*, conducted between July 31 and August 27, 2006 (peak) as well as October 03 and October 22, 2006 (non-peak), December 2007.

LAWA, including defining the modes to be relocated to each of the ITFs (see Appendix K for future mode shares). The LAX 2015 Passenger Survey showed that passengers were using Transportation Network Companies (TNCs) as an alternative transportation method and, as a result, the percentages of private vehicles, taxis, and shared ride vans decreased when compared to the 2011 Passenger Survey. The traffic volumes by mode for each of the ITFs were estimated by using the mode splits derived as explained above and from the calibration parameters from the 2014 calibrated model.

L.2.5.2 Future Trip Generation

Future trip generation models were developed for LAX using Airport passenger and employee trip generation data from the Federal Aviation Administration (FAA) Terminal Area Forecast (TAF⁸), and SCAG's regional aviation forecasts included in the 2012 RTP. Based on the FAA TAF and SCAG analysis, the passenger and employee forecasts for this analysis included the following parameters:

- 86 million annual passengers (MAP) for 2024;
- 95 MAP for 2030/2035;⁹
- Peak month average day airline passenger schedule;
- Traffic Model for the LAX Central Terminal Area (CTA) validated based on observed counts in 2011, 2014, and 2015, and automated automatic vehicle identification (AVI) count data that provides number of vehicles by terminal by mode by time of day;
- A Parking Allocation Model for LAX based on transaction data and surveys of LAWA and private parking lots; and
- Employee trip generation is based on various factors including passengers, tenant facilities, current and future work shifts, etc. The existing employee trip generation was factored 1.5 percent per year to account for the growth in employment associated with increased activity.

The trip generation estimates for LAX for 2024 and 2030/2035 are shown in **Table L-6** and **Table L-7**, respectively. The future forecasts for traffic conditions from the travel demand forecasting model were converted to intersection turning movement volume forecasts utilizing a set of post-processing techniques detailed in the National Cooperative Highway Research Program (NCHRP) Report 255 – Highway Traffic Data

⁶ Unison Consulting Inc., *Los Angeles International Airport 2011 Passenger Survey*, conducted between August 22 and August 28, 2011 (peak) as well as October 17 and October 24, 2011 (non-peak), August 2012.

⁷ Unison Consulting Inc., *Final Report, Los Angeles International Airport 2015 Passenger Survey Results and Findings*, February 2016.

⁸ Federal Aviation Administration, *APO Terminal Area Forecast 2014*, January 2015.

⁹ As discussed in Appendix D, for planning purposes related to the proposed LAX Landside Access Modernization Program, LAWA is planning for a future condition (2035) of 95 MAP under both the No Action and Proposed Action Alternatives.

for Urbanized Area Project Planning and Design.¹⁰ Specifically, using the existing traffic count data and growth factors, the future traffic volume estimates at the intersections were developed.

L.2.6 FUTURE CONDITIONS COMPARISON METHODOLOGY

The off-airport transportation study includes analysis of impacts projected to occur at the 2024, 2030, and 2035 horizon years. Projected traffic conditions for both future years include increases in background traffic volumes due to ambient area-wide growth between 2015, 2024, 2030, and 2035, as well as changes in the transportation network (i.e., roads and intersections) during that period. While 2030 and 2035 would have the same passengers at LAX, and thus the same Airport-related traffic, background conditions for these years would be slightly different; therefore, separate analyses for 2030 and 2035 were conducted.

Operational impacts associated with the future Proposed Action Alternative were assessed against the future No Action Alternative, as discussed in Section L.7.

¹⁰ Transportation Research Board, National Research Council, National Cooperative Highway Research Program Report 255, *Highway Traffic Data for Urbanized Area Project Planning and Design*, December 1982.

[DRAFT]

Table L-6: 2024 Trip Generation

	FUTURE 2024 NO ACTION ALTERNATIVE TRIPS			FUTURE 2024 PROPOSED ACTION ALTERNATIVE TRIPS		
	IN	OUT	TOTAL	IN	OUT	TOTAL
AM PEAK HOUR						
Airport Parking	130	16	146	119	29	148
Employee Parking	861	318	1,179	861	318	1,179
Cargo Facilities	1,154	911	2,065	1,154	911	2,065
Rental Car Facilities	797	493	1,290	0	0	0
Off-Airport Parking	184	61	245	184	58	242
ITF West	0	0	0	810	810	1,620
Manchester Square	0	0	0	1,141	837	1,978
CTA	4,602	4,228	8,830	3,415	3,093	6,508
TOTAL	7,728	6,027	13,755	7,684	6,056	13,740
MD PEAK HOUR						
Airport Parking	91	56	147	94	59	153
Employee Parking	725	623	1,348	725	623	1,348
Cargo Facilities	1,120	963	2,083	1,120	963	2,083
Rental Car Facilities	1,393	773	2,166	0	0	0
Off-Airport Parking	170	104	274	166	102	268
ITF West ¹	0	0	0	1,063	1,063	2,126
Manchester Square	0	0	0	1,863	1,243	3,106
CTA ¹	6,321	6,538	12,859	4,760	4,918	9,678
TOTAL	9,820	9,057	18,877	9,791	8,971	18,762
PM PEAK HOUR						
Airport Parking	91	55	146	74	58	132
Employee Parking	384	665	1,049	384	665	1,049
Cargo Facilities	1,109	1,317	2,426	1,109	1,317	2,426
Rental Car Facilities	677	784	1,461	0	0	0
Off-Airport Parking	114	121	235	110	119	229
ITF West	0	0	0	990	990	1,980
Manchester Square	0	0	0	1,114	1,208	2,322
CTA	6,026	6,767	12,793	4,481	5,063	9,544
TOTAL	8,401	9,709	18,110	8,262	9,420	17,682

SOURCE: Ricondo and Associates, Inc., July 2016.

PREPARED BY: Ricondo and Associates, Inc., July 2016.

[DRAFT]

Table L-7: 2030/2035 Trip Generation

	FUTURE 2035 NO ACTION ALTERNATIVE TRIPS			FUTURE 2035 PROPOSED ACTION ALTERNATIVE TRIPS		
	IN	OUT	TOTAL	IN	OUT	TOTAL
AM PEAK HOUR						
Airport Parking	119	32	151	103	34	137
Employee Parking	987	364	1,351	987	364	1,351
Cargo Facilities	1,369	1,081	2,450	1,369	1,081	2,450
Rental Car Facilities	815	481	1,296	0	0	0
Off-Airport Parking	155	64	219	151	61	212
ITF West	0	0	0	864	864	1,728
Manchester Square	0	0	0	1,186	852	2,038
CTA	4,828	4,387	9,215	3,574	3,134	6,708
TOTAL	8,273	6,409	14,682	8,234	6,390	14,624
MD PEAK HOUR						
Airport Parking	77	59	136	83	64	147
Employee Parking	831	714	1,545	831	714	1,545
Cargo Facilities	1,329	1,142	2,471	1,329	1,142	2,471
Rental Car Facilities	1,489	718	2,207	0	0	0
Off-Airport Parking	158	110	268	154	106	260
ITF West	0	0	0	1,155	1,155	2,310
Manchester Square	0	0	0	2,007	1,236	3,243
CTA	6,587	6,840	13,427	4,947	5,104	10,051
TOTAL	10,471	9,583	20,054	10,506	9,521	20,027
PM PEAK HOUR						
Airport Parking	85	64	149	57	70	127
Employee Parking	439	762	1,201	439	762	1,201
Cargo Facilities	1,316	1,562	2,878	1,316	1,562	2,878
Rental Car Facilities	759	912	1,671	0	0	0
Off-Airport Parking	113	129	242	110	125	235
ITF West	0	0	0	1,150	1,150	2,300
Manchester Square	0	0	0	1,274	1,406	2,680
CTA	6,281	7,185	13,466	4,659	5,308	9,967
TOTAL	8,993	10,614	19,607	9,005	10,383	19,388

SOURCE: Ricondo and Associates, Inc., July 2016.

PREPARED BY: Ricondo and Associates, Inc., July 2016.

L.3 Existing Conditions

L.3.1 EXISTING STREET SYSTEM

The existing street system within the traffic analysis study area consists of a regional highway system including major arterials and a local street system including secondary arterials, collectors, and local streets. The San Diego (I-405) Freeway, the Glenn Anderson (I-105) Freeway, and the Marina (SR-90) Freeway provide regional access to the Proposed Project Area. Brief descriptions of these roadway facilities, including number of lanes, speed limits, parking availability, and functional classes per the City of Los Angeles Mobility Plan 2035, are listed below.

- **Airport Boulevard** is a Boulevard II arterial roadway that runs north-south with two to three lanes in each direction plus left-turn channelization at major intersections in the traffic analysis study area. Parking is generally prohibited on both sides of Airport Boulevard, and the posted speed limit is 35 mph.
- **Arbor Vitae Street** is classified as a Boulevard II arterial roadway north of LAX that runs east-west with generally two lanes in each direction plus left-turn channelization at most major intersections throughout the traffic analysis study area. Restricted parking is allowed along certain segments of Arbor Vitae Street, and the posted speed limit is 35 mph.
- **Aviation Boulevard** is classified as a Boulevard II arterial roadway that runs north-south with two lanes in each direction plus left-turn channelization at major intersections in the traffic analysis study area. Parking is generally prohibited on both sides of Aviation Boulevard, and the posted speed limit is 40 mph.
- **Century Boulevard** is a modified Boulevard I arterial roadway that runs east-west and directly feeds into the LAX CTA. It has three to four lanes in each direction plus left-turn channelization at major intersections throughout the traffic analysis study area. Parking is not allowed along Century Boulevard, and the posted speed limit is 35 mph.
- **Douglas Street** is a secondary arterial in the City of El Segundo that runs north-south with two to three lanes in each direction plus left-turn channelization at major intersections throughout the traffic analysis study area. Parking is generally not allowed along Douglas Street but there are some segments with restricted parking. The posted speed limit is 40 mph.
- **El Segundo Boulevard** is classified as a major arterial in the City of El Segundo. It runs east-west with one to three lanes in each direction plus left-turn channelization at major intersections throughout the traffic analysis study area. Parking is allowed on certain segments, and the posted speed limit ranges from 35 to 40 mph.
- **Florence Avenue** is classified as a major arterial in the City of Inglewood. It runs east-west with two to three lanes in each direction and left-turn channelization at major intersections throughout the traffic analysis study area. Parking is generally not allowed along this roadway, although some parking is permitted east of La Brea Avenue. The posted speed limit is 35 mph.
- **Hawthorne Boulevard/La Brea Avenue** is a major arterial that runs north-south with three to four lanes in each direction plus left-turn channelization at major intersections throughout the traffic

analysis study area. Parking is generally allowed along most of Hawthorne Boulevard/La Brea Avenue, with some center median parking provided. The posted speed limit is 35 mph.

- **Imperial Highway** is classified as a Boulevard II arterial roadway that runs east-west with two to three lanes in each direction plus left-turn channelization at major intersections throughout the traffic analysis study area. Parking is not allowed on Imperial Highway, and the posted speed limit ranges from 40 to 50 mph. Bike lanes currently exist on both sides of Imperial Highway between Vista del Mar and Aviation Boulevard.
- **Inglewood Avenue** is a minor arterial that runs north-south with one to two lanes in each direction plus left-turn channelization at most major intersections throughout the traffic analysis study area. Parking is generally allowed on both sides of Inglewood Avenue, and the posted speed limit is 35 mph.
- **La Cienega Boulevard** is classified as a Boulevard II arterial roadway in the City of Los Angeles and a major arterial highway in the City of Inglewood. This roadway runs north-south with two to three lanes in each direction plus left-turn channelization at most major intersections in the traffic analysis study area. Parking is generally allowed south of La Tijera Boulevard. The speed limit in the traffic analysis study area ranges from 40 to 55 mph.
- **La Tijera Boulevard** is classified as a Boulevard II arterial roadway that runs northeast-southwest with two to three lanes in each direction plus left-turn channelization at major intersections. Parking is allowed on certain segments of La Tijera Boulevard, and it has a posted speed limit of 35 mph.
- **Lincoln Boulevard** is classified as a Boulevard I (major) arterial roadway that runs in a north-south direction from its southern terminus at Sepulveda Boulevard and extends northerly across several jurisdictions. This roadway generally provides three to four travel lanes in each direction. Parking is allowed on certain segments of Lincoln Boulevard, and the posted speed limit ranges from 40 to 55 mph. Lincoln Boulevard is State Route 1 in the traffic analysis study area. Bike lanes currently exist on both sides of Lincoln Boulevard between Jefferson Boulevard and Loyola Marymount University (LMU) Drive/Bluff Trail Road.
- **Manchester Avenue** is classified as a Boulevard II arterial roadway in the City of Los Angeles and a major arterial roadway in the City of Inglewood. It runs east-west and generally has two lanes in each direction plus left-turn channelization at major intersections throughout the traffic analysis study area. Parking is allowed along most of Manchester Avenue with some restricted segments. The posted speed limit along Manchester Avenue ranges from 25 to 35 mph. This arterial is known as Manchester Boulevard in the City of Inglewood. Bike lanes currently exist on both sides of Manchester Avenue between Lincoln Boulevard and Sepulveda Boulevard.
- **Nash Street** is a secondary arterial roadway in the City of El Segundo. It runs in a north/south direction with two lanes in each direction plus left-turn channelization at major intersections through the traffic analysis study area. Parking is generally not allowed along this roadway. The posted speed limit is 35 mph. The I-105 Freeway has a westbound off-ramp at Nash Street.
- **Pershing Drive** is classified as an Avenue II arterial roadway from its northern terminus at Culver Boulevard to Waterview Street and as a Boulevard II arterial roadway from Waterview Street to its southern terminus at Imperial Highway. Within the traffic analysis study area, Pershing Drive provides

three to four travel lanes, two lanes in the southbound direction and one to two in the northbound direction. Parking is allowed on both sides of Pershing Drive between Westchester Parkway and its northerly terminus at Culver Boulevard. Although parking is prohibited between Imperial Highway and Westchester Parkway, there are bike lanes within these limits. Bike lanes currently exist on both sides of Pershing Drive between Westchester Parkway and Imperial Highway.

- **Sepulveda Boulevard** is classified as a Boulevard I arterial roadway in the City of Los Angeles and as a primary arterial roadway in Culver City. South of Lincoln Boulevard, it is designated as State Route 1 under Caltrans jurisdiction. The roadway generally offers three to four travel lanes in each direction with left-turn lanes at major intersections. The posted speed limit along this roadway within the traffic analysis study area ranges from 35 to 40 mph. Within the traffic analysis study area, parking is generally prohibited on both sides of the street except within the Westchester Business District. Sepulveda Boulevard provides one of the primary access/egress options to the LAX CTA and connects to the I-405 Freeway to the south. Bike lanes currently exist on both sides of Sepulveda Boulevard between Centinela Avenue and Manchester Avenue. The segment of Sepulveda Boulevard in Culver City offers four to six travel lanes, two to three lanes per direction, with a central left-turn lane, with a posted speed limit of 35 mph. Bike lanes are provided on both sides of the street north of Venice Boulevard. Parking is allowed along many stretches of this roadway.
- **Westchester Parkway** is a Boulevard II arterial roadway that runs east-west with two lanes plus bike lanes in each direction. Its limits are Pershing Drive to the west and Airport Boulevard to the east. Parking is generally not allowed along Westchester Parkway. The posted speed limit ranges from 30 to 50 mph. East of Airport Boulevard, this roadway is referred to as Arbor Vitae Street. There are bike lanes on both sides of Westchester Parkway between Sepulveda Boulevard and Pershing Drive.

L.3.2 EXISTING TRAFFIC CONDITIONS

Existing traffic conditions are discussed in Section L.2.4.

L.4 Significance Thresholds

Each study intersection was evaluated for potential significant traffic impacts based on the significant traffic impact criteria adopted and accepted by various jurisdictions that the study intersections lie in. Intersections lying on the boundary of multiple jurisdictions were evaluated using the more conservative criteria. A description of the significant impact criteria for each jurisdiction is presented below.

L.4.1 CITY OF LOS ANGELES

The City of Los Angeles Department of Transportation has established threshold criteria that determine if a project has a significant traffic impact at a specific signalized intersection. For intersections under the City of Los Angeles jurisdiction, a project impact is considered significant if the conditions in **Table L-8** are met. These impact criteria represent intersection conditions with project-related traffic.

Table L-8: City of Los Angeles – Significant Impact Criteria

LEVEL OF SERVICE (LOS)	FINAL VOLUME/CAPACITY (V/C) RATIO	PROJECT-RELATED INCREASE IN V/C
C	> 0.701 – 0.800	Equal or greater than 0.040
D	> 0.801 – 0.900	Equal or greater than 0.020
E or F	> 0.901	Equal or greater than 0.010

SOURCE: Los Angeles Department of Transportation, *Traffic Study Policies and Procedures*, August 2014.

PREPARED BY: Ricondo and Associates, Inc., July 2016.

L.4.2 CITY OF EL SEGUNDO

For intersections under the City of El Segundo jurisdiction, an impact is considered to be significant if the following threshold is exceeded:¹¹

- If the project's traffic results in an intersection level of service change from LOS D or better to LOS E or F; or
- If there is increase in intersection capacity utilization (ICU) value of 0.020 or more, when the "With Project" intersection Level of Service (LOS) is at LOS E or F (ICU = 0.901 or greater).

L.4.3 CITY OF INGLEWOOD

For the City of Inglewood, an impact is considered to be significant if the following threshold is exceeded:¹²

- The LOS is F, its final V/C ratio is 1.001 or greater, and the project-related increase in V/C is 0.020 or greater.

L.4.4 CITY OF HAWTHORNE

The City of Hawthorne applies the Los Angeles County criteria defined in their Traffic Impact Analysis Report Guidelines. For intersections under the City of Hawthorne jurisdiction, an impact is considered to be significant if the thresholds in **Table L-9** are exceeded.

¹¹ Raju Associates, Inc., *Technical Memorandum Landside Access Modernization Program (LAMP) Project EIR Assumptions and Methodology for Traffic Study* to the City of El Segundo, November 30, 2015.

¹² Raju Associates, Inc., *Technical Memorandum Landside Access Modernization Program (LAMP) Project EIR Assumptions and Methodology for Traffic Study* to the City of Inglewood, October 27, 2015.

[DRAFT]

Table L-9: City of Hawthorne – Significant Impact Criteria

LEVEL OF SERVICE (LOS)	FINAL VOLUME/CAPACITY (V/C) RATIO	PROJECT-RELATED INCREASE IN V/C
C	> 0.71 – 0.80	Equal or greater than 0.040
D	> 0.81 – 0.90	Equal or greater than 0.020
E or F	> 0.91	Equal or greater than 0.010

SOURCE: Raju Associates, Inc., *Draft Transportation Study for the Landside Access Modernization Program DEIR*, September 2016.

PREPARED BY: Ricondo and Associates, Inc., July 2016.

L.4.5 COUNTY OF LOS ANGELES

For intersections under the County of Los Angeles jurisdiction, the County of Los Angeles has established threshold criteria for determining the significance of impacts of a project at a specific location. According to the criteria provided by the County of Los Angeles, a project impact is considered significant if the conditions in **Table L-10** are met.

Table L-10: County of Los Angeles – Significant Impact Criteria

LEVEL OF SERVICE (LOS)	FINAL VOLUME/CAPACITY (V/C) RATIO	PROJECT-RELATED INCREASE IN V/C
C	> 0.71 – 0.80	Equal or greater than 0.040
D	> 0.81 – 0.90	Equal or greater than 0.020
E or F	> 0.91	Equal or greater than 0.010

SOURCE: Los Angeles County Department of Public Works, *Traffic Impact Analysis Report Guidelines*, December 2013.

PREPARED BY: Ricondo and Associates, Inc., July 2016.

L.5 Off-Airport Transportation System Improvements

The roadway network for the future conditions within the traffic analysis study area is affected by a number of regional improvement plans, local specific plans, and programmed improvements that have been planned and funded separately from the Proposed Action Alternative. Specific improvements are planned for the following intersections:¹³

- Aviation Boulevard and Arbor Vitae Street
- Sepulveda Boulevard and La Tijera Boulevard
- Sepulveda Boulevard and Imperial Highway

¹³ City of Los Angeles, Los Angeles World Airport. *Final Environmental Impact Report for Los Angeles International Airport (LAX) Bradley West Project*, September 2009.

- La Cienega Boulevard and I-405 Freeway Southbound Ramps (north of Century Boulevard)
- Airport Boulevard and Manchester Avenue

L.6 Proposed Action Alternative-Related Improvements

The following describes the off-Airport transportation system improvements included in the future Proposed Action Alternative traffic analysis conditions, and how such improvements would affect passenger flow and vehicle operations, including:

- Roadway Improvements
 - West Way Relocation
 - Improvements to Center Way
 - Elimination of Sky Way / W. 96th Street Bridge Demolition
 - New Ramps to Arrivals and Departures from Sepulveda Boulevard Southbound
 - Vicksburg Avenue cul-de-sac
 - W. 96th Street Improvements
 - New 'A' Street
 - New Intersection at 'A' Street and 96th Street
 - W. 96th Street Closure and Jenny Avenue Demolition
 - New 'B' Street
 - W. 98th Street Improvements
 - Airport Boulevard Improvements
 - New 'D' Street
 - Demolition of Belford Avenue
 - Century Boulevard Corridor Improvements
 - W. 98th Street Extension
 - Aviation Boulevard Improvements
 - New 98th Street
 - Concourse Way Extension
 - Demolition of Secondary Roadways in Manchester Square
 - 98th Street Access to CONRAC
 - La Cienega Boulevard Improvements
 - I-405 Freeway Off-Ramp Improvements

- Arbor Vitae Street Improvements
- 111th Street Improvements
- New 'C' Street
- I-105 Freeway Ramp Improvements
- Intersection Improvements
 - Avion Drive and Century Boulevard
 - Airport Boulevard and Westchester Parkway/W. Arbor Vitae Street
 - Airport Boulevard and W. 96th Street
 - Airport Boulevard and W. 98th Street
 - Airport Boulevard and W. Century Boulevard
 - Bellanca Avenue and W. Century Boulevard
 - Aviation Boulevard and W. Arbor Vitae Street
 - Aviation Boulevard and W. Century Boulevard
 - Hindry Avenue and W. Arbor Vitae Street
 - Concourse Way and W. Century Boulevard
 - I-105 Freeway Ramps/New 'C' Street and Imperial Highway
 - La Cienega Boulevard and W. Arbor Vitae Street
 - La Cienega Boulevard and I-405 Freeway Southbound Ramp/W. 98th Street Extension

L.7 Evaluation of Traffic Conditions for Future Conditions and Impact Analysis

The trip generation and distribution models described previously were used to estimate the future No Action and Proposed Action Alternatives traffic volumes required to evaluate off-Airport intersection operations. This section discusses the results of the analyses for 2024, 2030, and 2035.

L.7.1 FUTURE 2024 OFF-AIRPORT TRAFFIC IMPACTS

A summary of the number of intersections operating at each LOS is shown in **Table L-11**. The intersection impacts for a.m., p.m., and midday peaks of the future (2024) Proposed Action Alternative, as compared to the future (2024) No Action Alternative, are shown in **Table L-12**. Under the Proposed Action Alternative, two intersections have a reduction in LOS in 2024 when compared to the No Action Alternative. At La Cienega Boulevard and Manchester Boulevard, the afternoon peak LOS changes from D (fair) under the No Action Alternative to E (poor) under the Proposed Action Alternative. The second intersection, La Cienega Boulevard and Arbor Vitae Street has a reduction in LOS during the morning peak from LOS D (fair) to LOS E (poor). Based on the local jurisdiction's guidance, these were determined not to be local impacts.

Table L-11: Intersection Level of Service Analysis – Future 2024 Proposed Action Alternative

LEVEL OF SERVICE	AM PEAK HOUR	MIDDAY PEAK HOUR	PM PEAK HOUR
A	19	10	11
B	14	15	14
C	17	5	9
D	13	3	18
E	4	1	12
F	3	0	6
Total	70	34	70

SOURCE: Raju Associates, Inc., *Draft Transportation Study for the Landside Access Modernization Program DEIR*, September 2016.

PREPARED BY: Ricondo and Associates, Inc., February 2017.

Table L-12 (1 of 2): Future (2024) Off-Airport Traffic Impacts

#	INTERSECTION	2024 NO ACTION ALTERNATIVE						2024 PROPOSED ACTION ALTERNATIVE						REDUCTION IN LOS TO E OR F		
		a.m.		midday		p.m.		a.m.		midday		p.m.		a.m.	midday	p.m.
		V/C	LOS	V/C	LOS	V/C	LOS	V/C	LOS	V/C	LOS	V/C	LOS			
1	Sepulveda Boulevard and Manchester Avenue	0.736	C	0.697	B	0.917	E	0.733	C	0.680	B	0.901	E	---	---	---
2	Sepulveda Boulevard and La Tijera Boulevard	0.579	A	0.613	B	0.677	B	0.593	A	0.608	B	0.696	B	---	---	---
3	Sepulveda Boulevard and Westchester Parkwav	0.768	C	0.910	E	0.914	E	0.799	C	0.890	D	0.880	D	---	---	---
4	Sepulveda Boulevard and Lincoln Boulevard	0.645	B	0.609	B	0.692	B	0.659	B	0.597	A	0.688	B	---	---	---
5	Sepulveda Boulevard and Century Boulevard	0.789	C	0.643	B	0.834	D	0.729	C	0.601	B	0.793	C	---	---	---
6	Sepulveda Boulevard and I-105 Westbound Ramps (n/o Imperial Highway)	1.085	F	1.002	F	0.973	E	1.044	F	0.948	E	0.935	E	---	---	---
7	Sepulveda Boulevard and Imperial Highway	0.769	C	0.632	B	0.910	E	0.712	C	0.632	B	0.849	D	---	---	---
8	Sepulveda Boulevard and Mariposa Avenue	0.886	D	---	---	0.835	D	0.882	D	---	---	0.835	D	---	---	---
9	Sepulveda Boulevard and Grand Avenue	1.146	F	---	---	0.983	E	1.144	F	---	---	0.989	E	---	---	---
10	Sepulveda Boulevard and El Segundo Boulevard	0.840	D	---	---	1.036	F	0.844	D	---	---	1.033	F	---	---	---
11	Sepulveda Eastwav and Westchester Parkway	0.450	A	---	---	0.727	C	0.472	A	---	---	0.723	C	---	---	---
12	La Tijera Boulevard and Manchester Avenue	0.562	A	0.612	B	0.624	B	0.579	A	0.622	B	0.600	A	---	---	---
13	Jenny Avenue and Westchester Parkway	0.208	A	0.295	A	0.432	A	0.336	A	0.339	A	0.388	A	---	---	---
14	Avion Drive and Century Boulevard	0.436	A	0.445	A	0.555	A	0.439	A	0.381	A	0.512	A	---	---	---
15	La Tijera Boulevard and Airport Boulevard	0.522	A	0.550	A	0.658	B	0.560	A	0.520	A	0.647	B	---	---	---
16	Airport Boulevard and Manchester Avenue	0.607	B	0.688	B	0.750	C	0.640	B	0.607	B	0.683	B	---	---	---
17	Airport Boulevard and Arbor Vitae Street/Westchester Parkway	0.696	B	0.787	C	1.032	F	0.669	B	0.539	A	0.834	D	---	---	---
18	Airport Boulevard and 96th Street	0.311	A	0.483	A	0.504	A	0.496	A	0.621	B	0.680	B	---	---	---
19	Airport Boulevard and 98th Street	0.392	A	0.523	A	0.561	A	0.633	B	0.688	B	0.692	B	---	---	---
20	Airport Boulevard and Century Boulevard	0.611	B	0.691	B	0.660	B	0.540	A	0.669	B	0.681	B	---	No	No
21	Nash Street /I-105 Westbound Ramps and Imperial Highwav	0.521	A	---	---	0.446	A	0.520	A	---	---	0.410	A	---	---	---
22	Nash Street and El Segundo Boulevard	0.635	B	---	---	0.694	B	0.631	B	---	---	0.679	B	---	---	---
23	Douqlas Street and Imperial Highwav	0.369	A	---	---	0.706	C	0.403	A	---	---	0.699	B	---	---	---
24	Douglas Street and El Segundo Boulevard	0.830	D	---	---	0.967	E	0.826	D	---	---	0.963	E	---	---	---
25	I-405 Northbound Ramps and La Tijera Boulevard	0.877	D	0.833	D	0.842	D	0.813	D	0.771	C	0.787	C	---	---	---
26	I-405 Southbound Ramps and La Tijera Boulevard	0.777	C	0.609	B	0.906	E	0.774	C	0.602	B	0.819	D	---	---	---
27	Bellanca Avenue and Century Boulevard	0.613	B	---	---	0.688	B	0.381	A	---	---	0.493	A	---	---	---
28	Aviation Boulevard/Florence Avenue and Manchester Avenue	0.749	C	0.755	C	0.814	D	0.673	B	0.685	B	0.663	B	---	---	---
29	Aviation Boulevard and Arbor Vitae Street	0.912	E	0.638	B	0.792	C	0.813	D	0.601	B	0.696	B	---	No	No
30	Aviation Boulevard and Century Boulevard	0.863	D	0.838	D	1.013	F	0.750	C	0.763	C	0.865	D	---	---	---
31	Aviation Boulevard and 104th Street	0.640	B	0.640	B	0.784	C	0.620	B	0.668	B	0.741	C	---	---	---
32	Aviation Boulevard and 111th Street	0.739	C	0.696	B	0.731	C	0.727	C	0.723	C	0.757	C	---	---	---
33	Aviation Boulevard and Imperial Highway	0.724	C	0.667	B	0.865	D	0.602	B	0.609	B	0.867	D	---	---	---
34	Aviation Boulevard and West 120th Street	0.821	D	---	---	0.920	E	0.814	D	---	---	0.918	E	---	---	---
35	Aviation Boulevard and El Segundo Boulevard	0.971	E	---	---	1.063	F	0.969	E	---	---	1.060	F	---	---	---
36	Hindry Avenue and Manchester Boulevard	0.722	C	---	---	0.790	C	0.710	C	---	---	0.663	B	---	---	---
37	Hindry Avenue and Arbor Vitae Street	23.4s	C	14.7 s	B	18.0s	C	0.563	A	0.347	A	0.514	A	---	---	---

Table L-12 (2 of 2): Future (2024) Off-Airport Traffic Impacts

#	INTERSECTION	2024 NO ACTION ALTERNATIVE						2024 PROPOSED ACTION ALTERNATIVE						REDUCTION IN LOS TO E OR F		
		a.m.		midday		p.m.		a.m.		midday		p.m.		a.m.	midday	p.m.
		V/C	LOS	V/C	LOS	V/C	LOS	V/C	LOS	V/C	LOS	V/C	LOS			
38	Concourse Wav and Century Boulevard	0.306	A	---	---	0.466	A	0.637	B	---	---	0.617	B	---	---	---
39	I-105 Ramps (e/o Aviation Boulevard) and Imperial Highway	0.781	C	0.412	A	0.679	B	0.768	C	0.548	A	0.689	B	---	---	---
40	La Cienega Boulevard and Florence Avenue	0.769	C	0.956	E	1.125	F	0.695	B	0.864	D	1.056	F	---	---	No
41	La Cienega Boulevard and Manchester Boulevard	0.749	C	0.859	D	0.838	D	0.819	D	0.857	D	0.959	E	---	---	---
42	La Cienega Boulevard and Arbor Vitae Street	0.813	D	0.667	B	0.806	D	0.910	E	0.653	B	0.865	D	No	---	---
43	La Cienega Boulevard and I-405 Southbound Ramps (n/o Century Bl)	0.783	C	0.653	B	0.642	B	0.665	B	0.557	A	0.547	A	---	---	---
44	La Cienega Boulevard and Century Boulevard	0.930	E	0.693	B	0.915	E	0.858	D	0.709	C	0.923	E	No	---	No
45	La Cienega Boulevard and I-405 Southbound Ramps (s/o Century Bl)	0.362	A	---	---	0.343	A	0.313	A	---	---	0.365	A	---	---	---
46	La Cienega Boulevard and 104th Street	0.406	A	---	---	0.419	A	0.419	A	---	---	0.416	A	---	---	---
47	La Cienega Boulevard and Lennox Boulevard	0.515	A	---	---	0.748	C	0.560	A	---	---	0.758	C	---	---	---
48	La Cienega Boulevard and 111th Street	0.320	A	---	---	0.374	A	0.316	A	---	---	0.397	A	---	---	---
49	La Cienega Boulevard and I-405 Southbound Ramps (n/o Imperial Hwy)	0.511	A	---	---	0.393	A	0.513	A	---	---	0.389	A	---	---	---
50	La Cienega Boulevard and Imperial Highway	0.466	A	0.296	A	0.834	D	0.503	A	0.301	A	0.830	D	---	---	---
51	La Cienega Boulevard and West 120th Street	0.814	D	---	---	0.962	E	0.784	C	---	---	0.968	E	---	---	---
52	La Cienega Boulevard and El Segundo Boulevard	0.719	C	---	---	0.901	E	0.716	C	---	---	0.908	E	---	---	---
53	I-405 Northbound Off-Ramp/Ash Avenue and Manchester Avenue	0.882	D	0.748	C	0.845	D	0.873	D	0.718	C	0.838	D	---	---	---
54	I-405 Northbound Ramps and Century Boulevard	0.952	E	0.716	C	0.826	D	0.973	E	0.589	A	0.864	D	---	---	---
55	I-405 Northbound Ramps (e/o La Cienega Bl) and Imperial Highway	0.619	B	---	---	0.803	D	0.639	B	---	---	0.779	C	---	---	---
56	I-405 Northbound Ramps and El Segundo Boulevard	0.784	C	---	---	0.802	D	0.795	C	---	---	0.807	D	---	---	---
57	Inglewood Avenue and Manchester Boulevard	0.771	C	---	---	0.850	D	0.772	C	---	---	0.847	D	---	---	---
58	Inglewood Avenue and Arbor Vitae Street	0.662	B	---	---	0.763	C	0.670	B	---	---	0.743	C	---	---	---
59	Inglewood Avenue and Century Boulevard	0.837	D	n/a	n/a	1.000	E	0.732	C	n/a	n/a	0.895	D	---	n/a	No
60	Inglewood Avenue and Lennox Boulevard	0.904	E	---	---	1.023	F	0.902	E	---	---	1.023	F	---	---	---
61	Inglewood Avenue and Imperial Highway	1.055	F	---	---	1.144	F	1.057	F	---	---	1.148	F	---	---	---
62	Inglewood Avenue and El Segundo Boulevard	0.853	D	---	---	0.991	E	0.865	D	---	---	0.997	E	---	---	---
63	La Brea Avenue and Manchester Boulevard	0.834	D	---	---	0.866	D	0.836	D	---	---	0.866	D	---	---	---
64	La Brea Avenue and Arbor Vitae Street	0.597	A	---	---	0.764	C	0.593	A	---	---	0.775	C	---	---	---
65	La Brea Avenue/Hawthorne Boulevard and Century Boulevard	0.834	D	---	---	0.903	E	0.857	D	---	---	0.904	E	---	---	---
66	Hawthorne Boulevard and Lennox Boulevard	0.772	C	---	---	0.856	D	0.765	C	---	---	0.838	D	---	---	---
67	Hawthorne Boulevard and I-105 Westbound Ramps/111th Street	0.890	D	---	---	1.020	F	0.884	D	---	---	1.005	F	---	---	---
68	Hawthorne Boulevard and Imperial Avenue	0.812	D	---	---	0.985	E	0.799	C	---	---	0.990	E	---	---	---
69	Hawthorne Boulevard and 120th Street	0.645	B	---	---	0.802	D	0.652	B	---	---	0.810	D	---	---	---
70	Hawthorne Boulevard and El Segundo Boulevard	0.741	C	---	---	0.867	D	0.750	C	---	---	0.871	D	---	---	---

NOTE: --- = NOT AVAILABLE / NO

SOURCE: Raju Associates, Inc., *Draft Transportation Study for the Landside Access Modernization Program DEIR*, September 2016.

PREPARED BY: Ricondo and Associates, Inc., February 2017.

L.7.2 FUTURE 2030 OFF-AIRPORT TRAFFIC IMPACTS

A summary of the number of intersections operating at each LOS is shown in **Table L-13**. The intersection impacts for a.m., p.m., and midday peaks of the future (2030) Proposed Action Alternative, as compared to the future (2030) No Action Alternative, are shown in **Table L-14**. During the afternoon peak hour, the No Action Alternative level of service went from LOS D (fair) to LOS F (failure) under the Proposed Action Alternative. This is considered both a reduction in LOS and a local impact according to the City of Inglewood's published guidance. However, the Proposed Action Alternative's LOS could be improved by adding additional right-of-way to widen this intersection. The City of Inglewood expressed its intent in meetings with LAWA staff not to widen the intersection given the residential uses east of the I-405 freeway along Arbor Vitae Street. Because the local jurisdiction prefers not to minimize this impact, and when considering operational traffic impacts as a whole, the Proposed Action Alternative would not disrupt local traffic patterns or substantially reduce the levels of service of roads serving LAX and its surrounding communities, no significant surface transportation impact would occur when comparing the Proposed Action Alternative to the No Action Alternative.

Table L-13: Intersection Level of Service Analysis – Future 2030 Proposed Action Alternative

LEVEL OF SERVICE	AM PEAK HOUR	MIDDAY PEAK HOUR	PM PEAK HOUR
A	16	7	9
B	15	14	9
C	15	6	16
D	17	4	15
E	4	3	12
F	3	0	9
Total	70	34	70

SOURCE: Raju Associates, Inc., *Draft Transportation Study for the Landside Access Modernization Program DEIR*, September 2016.

PREPARED BY: Ricondo and Associates, Inc., February 2017.

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Table L-14 (1 of 2): Future (2030) Off-Airport Traffic Impacts

#	INTERSECTION	2030 NO ACTION ALTERNATIVE						2030 PROPOSED ACTION ALTERNATIVE						REDUCTION IN LOS TO E OR F		
		a.m.		midday		p.m.		a.m.		midday		p.m.		a.m.	midday	p.m.
		V/C	LOS	V/C	LOS	V/C	LOS	V/C	LOS	V/C	LOS	V/C	LOS			
1	Sepulveda Boulevard and Manchester Avenue	0.748	C	0.722	C	0.947	E	0.734	C	0.689	B	0.918	E	---	---	---
2	Sepulveda Boulevard and La Tijera Boulevard	0.581	A	0.630	B	0.697	B	0.592	A	0.610	B	0.697	B	---	---	---
3	Sepulveda Boulevard and Westchester Parkway	0.799	C	0.946	E	0.955	E	0.806	D	0.909	E	0.894	D	---	---	---
4	Sepulveda Boulevard and Lincoln Boulevard	0.682	B	0.641	B	0.706	C	0.689	B	0.610	B	0.699	B	---	---	---
5	Sepulveda Boulevard and Century Boulevard	0.825	D	0.771	C	0.928	E	0.831	D	0.773	C	0.852	D	---	---	---
6	Sepulveda Boulevard and I-105 Westbound Ramps (n/o Imperial Highway)	1.096	F	1.019	F	0.993	E	1.040	F	0.950	E	0.935	E	---	---	---
7	Sepulveda Boulevard and Imperial Highway	0.775	C	0.640	B	0.934	E	0.707	C	0.639	B	0.847	D	---	---	---
8	Sepulveda Boulevard and Mariposa Avenue	0.887	D	---	---	0.824	D	0.883	D	---	---	0.828	D	---	---	---
9	Sepulveda Boulevard and Grand Avenue	1.146	F	---	---	0.984	E	1.147	F	---	---	0.988	E	---	---	---
10	Sepulveda Boulevard and El Segundo Boulevard	0.846	D	---	---	1.042	F	0.848	D	---	---	1.042	F	---	---	---
11	Sepulveda Eastwav and Westchester Parkway	0.472	A	---	---	0.763	C	0.497	A	---	---	0.750	C	---	---	---
12	La Tijera Boulevard and Manchester Avenue	0.588	A	0.635	B	0.668	B	0.597	A	0.642	B	0.629	B	---	---	---
13	Jenny Avenue and Westchester Parkway	0.208	A	0.317	A	0.454	A	0.343	A	0.433	A	0.471	A	---	---	---
14	Avion Drive and Century Boulevard	0.482	A	0.554	A	0.614	B	0.469	A	0.457	A	0.528	A	---	---	---
15	La Tijera Boulevard and Airport Boulevard	0.570	A	0.609	B	0.705	C	0.599	A	0.567	A	0.674	B	---	---	---
16	Airport Boulevard and Manchester Avenue	0.643	B	0.740	C	0.800	D	0.672	B	0.647	B	0.715	C	---	---	---
17	Airport Boulevard and Arbor Vitae Street/Westchester Parkway	0.728	C	0.841	D	1.119	F	0.739	C	0.663	B	0.922	E	---	---	---
18	Airport Boulevard and 96th Street	0.320	A	0.532	A	0.569	A	0.478	A	0.501	A	0.570	A	---	---	---
19	Airport Boulevard and 98th Street	0.418	A	0.564	A	0.597	A	0.649	B	0.619	B	0.661	B	---	---	---
20	Airport Boulevard and Century Boulevard	0.627	B	0.787	C	0.715	C	0.622	B	0.669	B	0.707	C	---	---	---
21	Nash Street /I-105 Westbound Ramps and Imperial Highway	0.534	A	---	---	0.466	A	0.541	A	---	---	0.480	A	---	---	---
22	Nash Street and El Segundo Boulevard	0.641	B	---	---	0.707	C	0.639	B	---	---	0.696	B	---	---	---
23	Douglas Street and Imperial Highway	0.395	A	---	---	0.736	C	0.428	A	---	---	0.714	C	---	---	---
24	Douglas Street and El Segundo Boulevard	0.841	D	---	---	0.982	E	0.844	D	---	---	0.978	E	---	---	---
25	I-405 Northbound Ramps and La Tijera Boulevard	0.934	E	0.868	D	0.863	D	0.853	D	0.808	D	0.800	C	---	---	---
26	I-405 Southbound Ramps and La Tijera Boulevard	0.776	C	0.633	B	0.951	E	0.767	C	0.618	B	0.863	D	---	---	---
27	Bellanca Avenue and Century Boulevard	0.631	B			0.743	C	0.426	A			0.499	A	---	---	---
28	Aviation Boulevard/Florence Avenue and Manchester Avenue	0.776	C	0.818	D	0.872	D	0.682	B	0.715	C	0.706	C	---	---	---
29	Aviation Boulevard and Arbor Vitae Street	0.960	E	0.703	C	0.871	D	0.868	D	0.645	B	0.775	C	---	---	---
30	Aviation Boulevard and Century Boulevard	0.927	E	0.873	D	1.043	F	0.811	D	0.849	D	0.910	E	---	---	---
31	Aviation Boulevard and 104th Street	0.781	C	0.717	C	0.850	D	0.729	C	0.760	C	0.818	D	---	---	---
32	Aviation Boulevard and 111th Street	0.883	D	0.812	D	0.819	D	0.773	C	0.822	D	0.763	C	---	---	---
33	Aviation Boulevard and Imperial Highway	0.822	D	0.693	B	0.896	D	0.603	B	0.615	B	0.898	D	---	---	---
34	Aviation Boulevard and West 120th Street	0.873	D	---	---	0.955	E	0.837	D	---	---	0.923	E	---	---	---
35	Aviation Boulevard and El Segundo Boulevard	0.984	E	---	---	1.074	F	0.980	E	---	---	1.076	F	---	---	---
36	Hindry Avenue and Manchester Boulevard	0.723	C	---	---	0.839	D	0.726	C	---	---	0.738	C	---	---	---
37	Hindr y Avenue and Arbor Vitae Street	28.4 s	D	15.6 s	C	20.4 s	C	0.615	B	0.373	A	0.627	B	---	---	---

Table L-14 (2 of 2): Future (2030) Off-Airport Traffic Impacts

#	INTERSECTION	2030 NO ACTION ALTERNATIVE						2030 PROPOSED ACTION ALTERNATIVE						REDUCTION IN LOS TO E OR F		
		a.m.		midday		p.m.		a.m.		midday		p.m.		a.m.	midday	p.m.
		V/C	LOS	V/C	LOS	V/C	LOS	V/C	LOS	V/C	LOS	V/C	LOS			
38	Concourse Wav and Century Boulevard	0.327	A	---	---	0.508	A	0.621	B	---	---	0.620	B	---	---	---
39	I-105 Ramps (e/o Aviation Boulevard) and Imperial Highway	0.819	D	0.428	A	0.705	C	0.800	C	0.537	A	0.733	C	---	---	---
40	La Cienega Boulevard and Florence Avenue	0.801	D	1.000	F	1.149	F	0.735	C	0.919	E	1.095	F	---	---	---
41	La Cienega Boulevard and Manchester Boulevard	0.780	C	0.890	D	0.865	D	0.749	C	0.886	D	0.888	D	---	---	---
42	La Cienega Boulevard and Arbor Vitae Street	0.861	D	0.700	B	0.834	D	0.974	E	0.735	C	1.037	F	Yes	---	Yes
43	La Cienega Boulevard and I-405 Southbound Ramps (n/o Century Bl)	0.801	D	0.690	B	0.689	B	0.677	B	0.628	B	0.611	B	---	---	---
44	La Cienega Boulevard and Century Boulevard	0.952	E	0.769	C	1.036	F	0.875	D	0.777	C	0.950	E	---	---	---
45	La Cienega Boulevard and I-405 Southbound Ramps (s/o Century Bl)	0.373	A	---	---	0.370	A	0.281	A	---	---	0.395	A	---	---	---
46	La Cienega Boulevard and 104th Street	0.453	A	---	---	0.476	A	0.453	A	---	---	0.473	A	---	---	---
47	La Cienega Boulevard and Lennox Boulevard	0.545	A	---	---	0.799	C	0.527	A	---	---	0.749	C	---	---	---
48	La Cienega Boulevard and 111th Street	0.402	A	---	---	0.423	A	0.350	A	---	---	0.429	A	---	---	---
49	La Cienega Boulevard and I-405 Southbound Ramps (n/o Imperial Hwy)	0.539	A	---	---	0.414	A	0.496	A	---	---	0.426	A	---	---	---
50	La Cienega Boulevard and Imperial Highway	0.515	A	0.320	A	0.875	D	0.597	A	0.324	A	0.877	D	---	---	---
51	La Cienega Boulevard and West 120th Street	0.832	D	---	---	0.980	E	0.826	D	---	---	0.984	E	---	---	---
52	La Cienega Boulevard and El Segundo Boulevard	0.738	C	---	---	0.910	E	0.750	C	---	---	0.914	E	---	---	---
53	I-405 Northbound Off-Ramp/Ash Avenue and Manchester Avenue	0.905	E	0.771	C	0.880	D	0.891	D	0.745	C	0.890	D	---	---	---
54	I-405 Northbound Ramps and Century Boulevard	0.976	E	0.740	C	0.868	D	0.846	D	0.605	B	0.771	C	---	---	---
55	I-405 Northbound Ramps (e/o La Cienega Bl) and Imperial Highway	0.639	B	---	---	0.819	D	0.683	B	---	---	0.834	D	---	---	---
56	I-405 Northbound Ramps and El Segundo Boulevard	0.792	C	---	---	0.812	D	0.809	D	---	---	0.798	C	---	---	---
57	Inglewood Avenue and Manchester Boulevard	0.789	C	---	---	0.873	D	0.788	C	---	---	0.890	D	---	---	---
58	Inglewood Avenue and Arbor Vitae Street	0.669	B	---	---	0.789	C	0.688	B	---	---	0.785	C	---	---	---
59	Inglewood Avenue and Century Boulevard	0.857	D	---	---	1.039	F	0.752	C	---	---	0.945	E	---	---	---
60	Inglewood Avenue and Lennox Boulevard	0.935	E	---	---	1.066	F	0.929	E	---	---	1.043	F	---	---	---
61	Inglewood Avenue and Imperial Highway	1.079	F	---	---	1.176	F	1.052	F	---	---	1.164	F	---	---	---
62	Inglewood Avenue and El Segundo Boulevard	0.869	D	---	---	1.001	F	0.886	D	---	---	1.007	F	---	---	---
63	La Brea Avenue and Manchester Boulevard	0.851	D	---	---	0.893	D	0.853	D	---	---	0.908	E	---	---	---
64	La Brea Avenue and Arbor Vitae Street	0.618	B	---	---	0.790	C	0.614	B	---	---	0.794	C	---	---	---
65	La Brea Avenue/Hawthorne Boulevard and Century Boulevard	0.859	D	---	---	0.961	E	0.695	B	---	---	0.797	C	---	---	---
66	Hawthorne Boulevard and Lennox Boulevard	0.805	D	---	---	0.885	D	0.791	C	---	---	0.869	D	---	---	---
67	Hawthorne Boulevard and I-105 Westbound Ramps/111th Street	0.905	E	---	---	1.028	F	0.901	E	---	---	1.020	F	---	---	---
68	Hawthorne Boulevard and Imperial Avenue	0.844	D	---	---	1.016	F	0.809	D	---	---	1.021	F	---	---	---
69	Hawthorne Boulevard and 120th Street	0.656	B	---	---	0.822	D	0.658	B	---	---	0.832	D	---	---	---
70	Hawthorne Boulevard and El Segundo Boulevard	0.760	C	---	---	0.886	D	0.781	C	---	---	0.889	D	---	---	---

NOTES: --- = NOT AVAILABLE / NO

SOURCE: Raju Associates, Inc., *Draft Transportation Study for the Landside Access Modernization Program DEIR*, September 2016.

PREPARED BY: Ricondo and Associates, Inc., February 2017

[DRAFT]

L.7.3 FUTURE 2035 OFF-AIRPORT TRAFFIC IMPACTS

A summary of the number of intersections operating at each LOS is shown in **Table L-15**. The intersection impacts for a.m., p.m., and midday peaks of the future (2035) Proposed Action Alternative, as compared to the future (2035) No Action Alternative, are shown in **Table L-16**. In 2035, the La Cienega Boulevard and Arbor Vitae Street intersection again experiences a reduction in LOS, in the morning and afternoon peak hours, of the future (2035) Proposed Action Alternative when compared the No Action Alternative. In 2035, the LOS for both the morning and afternoon peak hours is reduced from LOS D (fair) to LOS F (failure). While this is considered a reduction in level of service, because the local jurisdiction prefers to not minimize this impact, and when considering operational traffic impacts as a whole, the Proposed Action Alternative would not disrupt local traffic patterns or substantially reduce the levels of service of roads serving LAX and its surrounding communities, no significant surface transportation impact would occur when comparing the Proposed Action Alternative to the No Action Alternative.

Also in 2035, at La Cienega Boulevard and Manchester Boulevard, the p.m. peak LOS changes from D (fair) under the No Action Alternative to E (poor) under the Proposed Action Alternative. Although this is a reduction in level of service, based on the local jurisdiction's guidance, this was determined not to be a local impact. The The I-405 Northbound Off-Ramp/Ash Avenue and Manchester Avenue intersection also experiences a reduction in level of service in the afternoon peak hour going from LOS D (fair) under the No Action Alternative to LOS E (poor) under the Proposed Action Alternative. However, the local jurisdiction's impact criteria do not consider this a local impact.

Table L-15: Intersection Level of Service Analysis – Future 2035 Proposed Action Alternative

LEVEL OF SERVICE	AM PEAK HOUR	MIDDAY PEAK HOUR	PM PEAK HOUR
A	13	11	9
B	14	12	6
C	14	6	12
D	20	3	15
E	5	2	18
F	4	0	10
Total	70	33 ^{1/}	70

NOTE:

1/ Data for one intersection was unavailable.

SOURCE: Raju Associates, Inc., *Draft Transportation Study for the Landside Access Modernization Program DEIR*, September 2016.

PREPARED BY: Ricondo and Associates, Inc., February 2017.

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Table L-16 (1 of 2): Future (2035) Off-Airport Traffic Impacts

#	INTERSECTION	2035 NO ACTION ALTERNATIVE						2035 PROPOSED ACTION ALTERNATIVE						REDUCTION IN LOS TO E OR F		
		a.m.		midday		p.m.		a.m.		midday		p.m.		a.m.	midday	p.m.
		V/C	LOS	V/C	LOS	V/C	LOS	V/C	LOS	V/C	LOS	V/C	LOS			
1	Sepulveda Boulevard and Manchester Avenue	0.752	C	0.739	C	0.961	E	0.750	C	0.722	C	0.937	E	---	---	---
2	Sepulveda Boulevard and La Tijera Boulevard	0.589	A	0.651	B	0.733	C	0.612	B	0.649	B	0.734	C	---	---	---
3	Sepulveda Boulevard and Westchester Parkwav	0.812	D	0.965	E	0.971	E	0.831	D	0.954	E	0.912	E	---	---	---
4	Sepulveda Boulevard and Lincoln Boulevard	0.685	B	0.648	B	0.715	C	0.706	C	0.632	B	0.719	C	---	---	---
5	Sepulveda Boulevard and Century Boulevard	0.839	D	0.777	C	0.947	E	0.844	D	0.780	C	0.887	D	No	No	---
6	Sepulveda Boulevard and I-105 Westbound Ramps (n/o Imperial Highway)	1.104	F	1.025	F	1.001	F	1.063	F	0.975	E	0.963	E	---	---	---
7	Sepulveda Boulevard and Imperial Highway	0.792	C	0.647	B	0.940	E	0.733	C	0.658	B	0.893	D	---	---	---
8	Sepulveda Boulevard and Mariposa Avenue	0.888	D	---	---	0.823	D	0.888	D	---	---	0.827	D	---	---	---
9	Sepulveda Boulevard and Grand Avenue	1.146	F	---	---	0.984	E	1.149	F	---	---	0.987	E	---	---	---
10	Sepulveda Boulevard and El Segundo Boulevard	0.848	D	---	---	1.050	F	0.850	D	---	---	1.049	F	---	---	---
11	Sepulveda Eastwav and Westchester Parkway	0.491	A	---	---	0.787	C	0.506	A	---	---	0.755	C	---	---	---
12	La Tijera Boulevard and Manchester Avenue	0.613	B	0.649	B	0.695	B	0.624	B	0.667	B	0.664	B	---	---	---
13	Jenny Avenue and Westchester Parkway	0.212	A	0.338	A	0.457	A	0.356	A	0.442	A	0.468	A	---	---	---
14	Avion Drive and Century Boulevard	0.515	A	0.572	A	0.640	B	0.483	A	0.466	A	0.537	A	---	---	---
15	La Tijera Boulevard and Airport Boulevard	0.619	B	0.621	B	0.725	C	0.629	B	0.573	A	0.682	B	---	---	---
16	Airport Boulevard and Manchester Avenue	0.682	B	0.761	C	0.832	D	0.701	C	0.657	B	0.725	C	---	---	---
17	Airport Boulevard and Arbor Vitae Street/Westchester Parkway	0.744	C	0.858	D	1.153	F	0.754	C	0.677	B	0.933	E	---	---	---
18	Airport Boulevard and 96th Street	0.341	A	0.553	A	0.580	A	0.475	A	0.500	A	0.568	A	---	---	---
19	Airport Boulevard and 98th Street	0.433	A	0.573	A	0.625	B	0.657	B	0.618	B	0.655	B	---	---	---
20	Airport Boulevard and Century Boulevard	0.672	B	0.800	C	0.725	C	0.650	B	0.671	B	0.717	C	---	---	---
21	Nash Street /I-105 Westbound Ramps and Imperial Highway	0.547	A	---	---	0.480	A	0.549	A	---	---	0.496	A	---	---	---
22	Nash Street and El Segundo Boulevard	0.646	B	---	---	0.721	C	0.642	B	---	---	0.708	C	---	---	---
23	Douglas Street and Imperial Highway	0.398	A	---	---	0.739	C	0.438	A	---	---	0.715	C	---	---	---
24	Douglas Street and El Segundo Boulevard	0.848	D	---	---	0.989	E	0.855	D	---	---	0.986	E	---	---	---
25	I-405 Northbound Ramps and La Tijera Boulevard	0.981	E	0.887	D	0.876	D	0.878	D	0.817	D	0.804	D	---	---	---
26	I-405 Southbound Ramps and La Tijera Boulevard	0.773	C	0.639	B	0.975	E	0.766	C	0.623	B	0.885	D	---	---	---
27	Bellanca Avenue and Century Boulevard	0.654	B	---	---	0.761	C	0.455	A	---	---	0.498	A	---	---	---
28	Aviation Boulevard/Florence Avenue and Manchester Avenue	0.795	C	0.843	D	0.895	D	0.703	C	0.732	C	0.712	C	---	---	---
29	Aviation Boulevard and Arbor Vitae Street	0.996	E	0.731	C	0.902	E	0.884	D	0.675	B	0.778	C	---	No	No
30	Aviation Boulevard and Century Boulevard	0.961	E	0.900	D	1.051	F	0.824	D	0.869	D	0.948	E	---	---	---
31	Aviation Boulevard and 104th Street	0.790	C	0.752	C	0.875	D	0.782	C	0.776	C	0.866	D	---	---	---
32	Aviation Boulevard and 111th Street	0.957	E	0.867	D	0.872	D	0.842	D	0.819	D	0.820	D	---	---	---
33	Aviation Boulevard and Imperial Highway	0.878	D	0.694	B	0.923	E	0.652	B	0.640	B	0.923	E	---	---	---
34	Aviation Boulevard and West 120th Street	0.905	E	---	---	0.968	E	0.869	D	---	---	0.941	E	---	---	---
35	Aviation Boulevard and El Segundo Boulevard	0.991	E	---	---	1.076	F	0.987	E	---	---	1.078	F	---	---	---
36	Hindry Avenue and Manchester Boulevard	0.731	C	---	---	0.862	D	0.737	C	---	---	0.757	C	---	---	---
37	Hindry Avenue and Arbor Vitae Street	49.4s	E	16.5 s	C	24.1s	C	0.667	B	0.389	A	0.656	B	---	---	---

Table L-16 (2 of 2): Future (2035) Off-Airport Traffic Impacts

#	INTERSECTION	2035 NO ACTION ALTERNATIVE						2035 PROPOSED ACTION ALTERNATIVE						REDUCTION IN LOS TO E OR F		
		a.m.		midday		p.m.		a.m.		midday		p.m.		a.m.	midday	p.m.
		V/C	LOS	V/C	LOS	V/C	LOS	V/C	LOS	V/C	LOS	V/C	LOS			
38	Concourse Wav and Century Boulevard	0.337	A	---	---	0.528	A	0.562	A	---	---	0.637	B	---	---	---
39	I-105 Ramps (e/o Aviation Boulevard) and Imperial Highway	0.838	D	0.440	A	0.713	C	0.815	D	0.536	A	0.749	C	---	---	No
40	La Cienega Boulevard and Florence Avenue	0.826	D	1.022	F	1.162	F	0.738	C	0.936	A	1.107	F	---	---	No
41	La Cienega Boulevard and Manchester Boulevard	0.801	D	0.908	E	0.880	D	0.761	C	0.902	A	0.902	E	---	No	No
42	La Cienega Boulevard and Arbor Vitae Street	0.887	D	0.724	C	0.852	D	1.022	F	0.760	A	1.070	F	Yes	---	Yes
43	La Cienega Boulevard and I-405 Southbound Ramps (n/o Century Bl)	0.809	D	0.703	C	0.705	C	0.682	B	0.616	B	0.605	B	---	---	---
44	La Cienega Boulevard and Century Boulevard	0.985	E	0.813	D	1.088	F	0.877	D	0.816	A	0.963	E	No	No	No
45	La Cienega Boulevard and I-405 Southbound Ramps (s/o Century Bl)	0.385	A	---	---	0.381	A	0.327	A	---	---	0.407	A	---	---	---
46	La Cienega Boulevard and 104th Street	0.478	A	---	---	0.506	A	0.461	A	---	---	0.477	A	---	---	---
47	La Cienega Boulevard and Lennox Boulevard	0.583	A	---	---	0.836	D	0.619	B	---	---	0.845	D	---	---	---
48	La Cienega Boulevard and 111th Street	0.433	A	---	---	0.453	A	0.445	A	---	---	0.453	A	---	---	---
49	La Cienega Boulevard and I-405 Southbound Ramps (n/o Imperial Hwy)	0.565	A	---	---	0.424	A	0.592	A	---	---	0.421	A	---	---	---
50	La Cienega Boulevard and Imperial Highway	0.532	A	0.341	A	0.899	D	0.598	A	0.357	A	0.899	D	---	---	---
51	La Cienega Boulevard and West 120th Street	0.848	D	---	---	0.999	E	0.810	D	---	---	1.004	F	---	---	---
52	La Cienega Boulevard and El Segundo Boulevard	0.748	C	---	---	0.918	E	0.744	C	---	---	0.926	E	---	---	---
53	I-405 Northbound Off-Ramp/Ash Avenue and Manchester Avenue	0.923	E	0.778	C	0.896	D	0.907	E	0.746	C	0.913	E	---	---	---
54	I-405 Northbound Ramps and Century Boulevard	0.993	E	0.761	C	0.890	D	0.995	E	0.752	C	0.908	E	---	---	---
55	I-405 Northbound Ramps (e/o La Cienega Bl) and Imperial Highway	0.653	B	---	---	0.832	D	0.689	B	---	---	0.813	D	---	---	---
56	I-405 Northbound Ramps and El Segundo Boulevard	0.801	D	---	---	0.818	D	0.812	D	---	---	0.814	D	---	---	---
57	Inglewood Avenue and Manchester Boulevard	0.804	D	---	---	0.887	D	0.801	D	---	---	0.907	E	---	---	---
58	Inglewood Avenue and Arbor Vitae Street	0.674	B	---	---	0.802	D	0.698	B	---	---	0.798	C	---	---	---
59	Inglewood Avenue and Century Boulevard	0.873	D	n/a	n/a	1.064	F	0.757	C	n/a	n/a	0.958	E	---	n/a	No
60	Inglewood Avenue and Lennox Boulevard	0.952	E	---	---	1.086	F	0.950	E	---	---	1.086	F	---	---	---
61	Inglewood Avenue and Imperial Highway	1.095	F	---	---	1.195	F	1.095	F	---	---	1.198	F	---	---	---
62	Inglewood Avenue and El Segundo Boulevard	0.879	D	---	---	1.007	F	0.896	D	---	---	1.009	F	---	---	---
63	La Brea Avenue and Manchester Boulevard	0.863	D	---	---	0.911	E	0.870	D	---	---	0.925	E	---	---	---
64	La Brea Avenue and Arbor Vitae Street	0.626	B	---	---	0.805	D	0.623	B	---	---	0.803	D	---	---	---
65	La Brea Avenue/Hawthorne Boulevard and Century Boulevard	0.876	D	---	---	0.986	E	0.884	D	---	---	0.985	E	---	---	---
66	Hawthorne Boulevard and Lennox Boulevard	0.821	D	---	---	0.902	E	0.806	D	---	---	0.880	D	---	---	---
67	Hawthorne Boulevard and I-105 Westbound Ramps/111th Street	0.919	E	---	---	1.039	F	0.910	E	---	---	1.025	F	---	---	---
68	Hawthorne Boulevard and Imperial Avenue	0.861	D	---	---	1.037	F	0.849	D	---	---	1.037	F	---	---	---
69	Hawthorne Boulevard and 120th Street	0.669	B	---	---	0.833	D	0.668	B	---	---	0.847	D	---	---	---
70	Hawthorne Boulevard and El Segundo Boulevard	0.775	C	---	---	0.898	D	0.784	C	---	---	0.899	D	---	---	---

NOTES: --- = NOT AVAILABLE / NO

SOURCE: Raju Associates, Inc., *Draft Transportation Study for the Landside Access Modernization Program DEIR*, September 2016.

PREPARED BY: Ricondo and Associates, Inc., February 2017

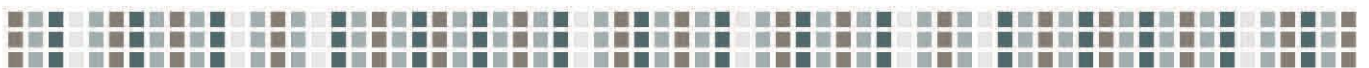
L.8 Conclusions

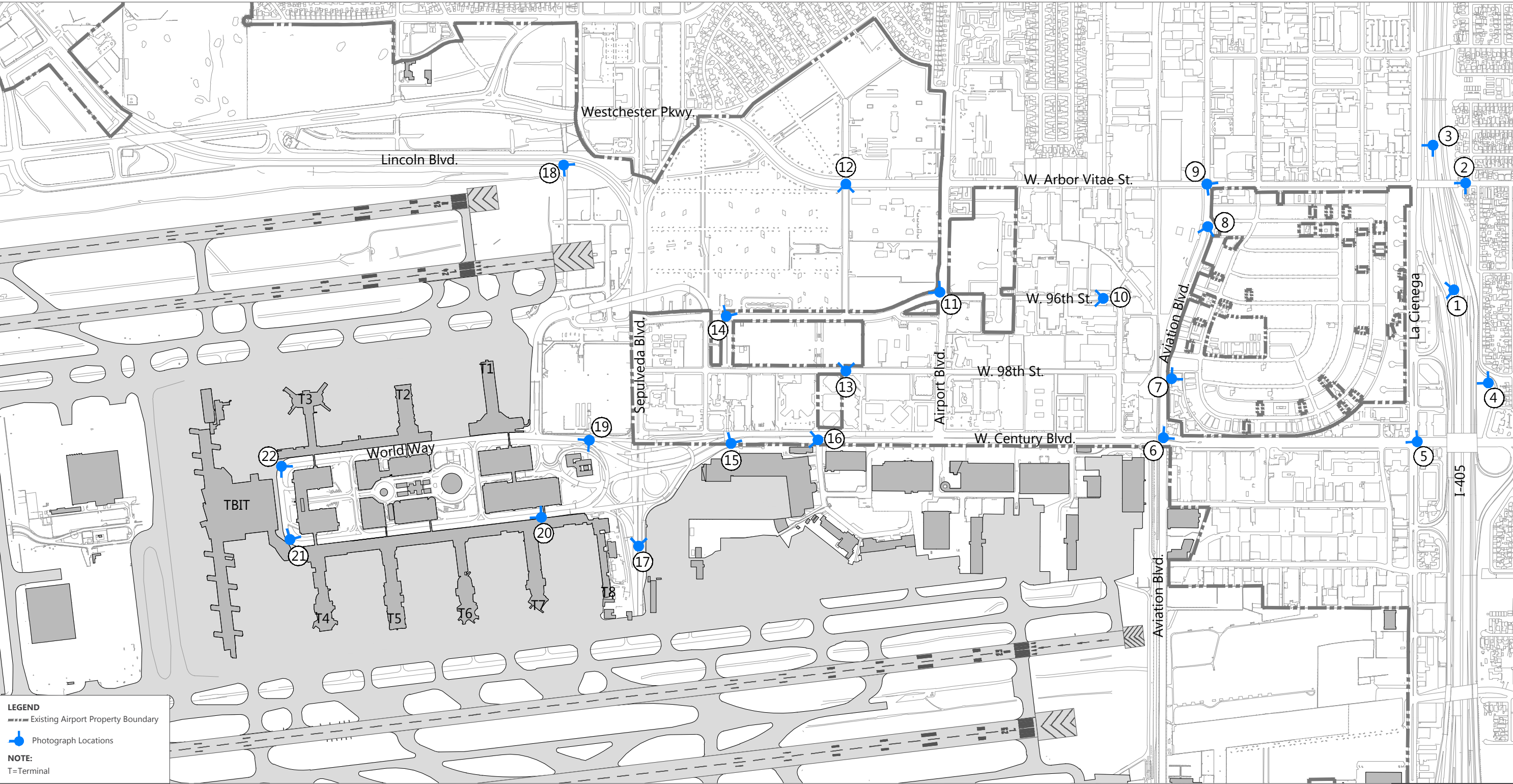
The results from the above analyses show that implementation of the Proposed Action Alternative would not cause significant off-Airport traffic-related impacts to the intersections during a.m., midday, or p.m. peak hours for 2024, 2030 or 2035. The results of the off-Airport traffic analysis demonstrated that with implementation of the Proposed Action Alternative, the overall level of service on surrounding roadways would generally improve compared to the No Action Alternative. Even in cases where LOS was not improved, there was a reduction in the V/C ratio leading to an improved experience for Airport users.

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Appendix M

Visual Effects





SOURCE: Los Angeles World Airports, August 2014; Ricondo & Associates, Inc., September 2016.
PREPARED BY: Ricondo & Associates, Inc., August 2017.

FIGURE M-1



Photograph Locations

PHOTOGRAPH LOCATION 1



NOTE: Photograph location corresponds to the key map in Figure M-1.

SOURCE: Meridian Consultants, October 2015; Ricondo & Associates, Inc., November 2015.

PREPARED BY: Ricondo & Associates, Inc., August 2017.

FIGURE M-2

West-Facing View
from I-405 toward CONRAC

PHOTOGRAPH LOCATION 2



NOTE: Photograph location corresponds to the key map in Figure M-1.

SOURCE: Meridian Consultants, October 2015; Ricondo & Associates, Inc., November 2015.

PREPARED BY: Ricondo & Associates, Inc., August 2017.

FIGURE M-3

Southwest-Facing View
from Arbor Vitae Street toward CONRAC

PHOTOGRAPH LOCATION 3



NOTE: Photograph location corresponds to the key map in Figure M-1.
SOURCE: Meridian Consultants, October 2015; Ricondo & Associates, Inc., November 2015.
PREPARED BY: Ricondo & Associates, Inc., August 2017.

FIGURE M-4

Southwest-Facing View toward CONRAC from I-405 South

PHOTOGRAPH LOCATION 4



NOTE: Photograph location corresponds to the key map in Figure M-1.

SOURCE: Meridian Consultants, October 2015; Ricondo & Associates, Inc., November 2015.

PREPARED BY: Ricondo & Associates, Inc., August 2017.

FIGURE M-5

Northwest-Facing View toward CONRAC
from Century Boulevard On-Ramp to I-405 North.

PHOTOGRAPH LOCATION 5



BEFORE



AFTER

NOTE: Photograph location corresponds to the key map in Figure M-1.

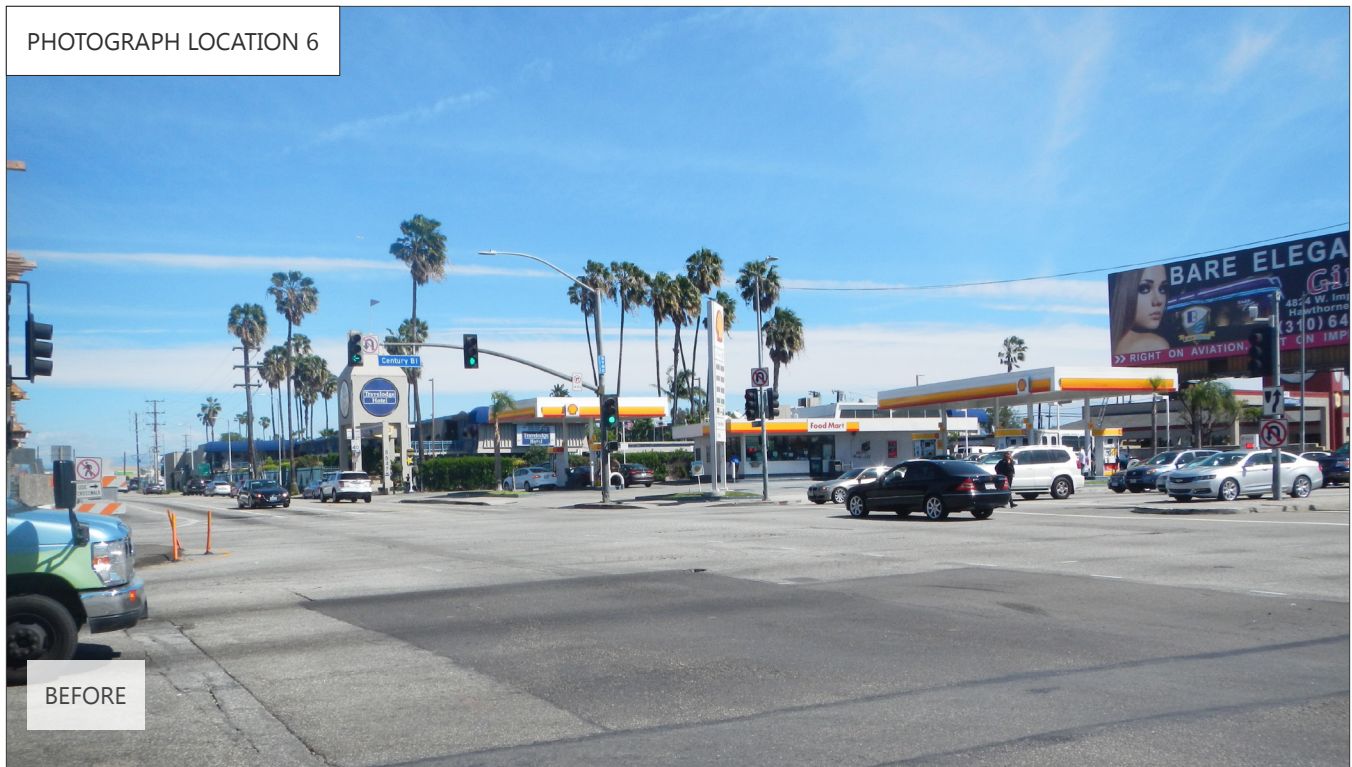
SOURCE: Meridian Consultants, October 2015; Ricondo & Associates, Inc., November 2015.

PREPARED BY: Ricondo & Associates, Inc., August 2017.

FIGURE M-6

North-West Facing View
from Century Boulevard/La Cienega Boulevard toward CONRAC

PHOTOGRAPH LOCATION 6



BEFORE



AFTER

NOTE: Photograph location corresponds to the key map in Figure M-1.
SOURCE: Meridian Consultants, October 2015; Ricondo & Associates, Inc., November 2015.
PREPARED BY: Ricondo & Associates, Inc., August 2017.

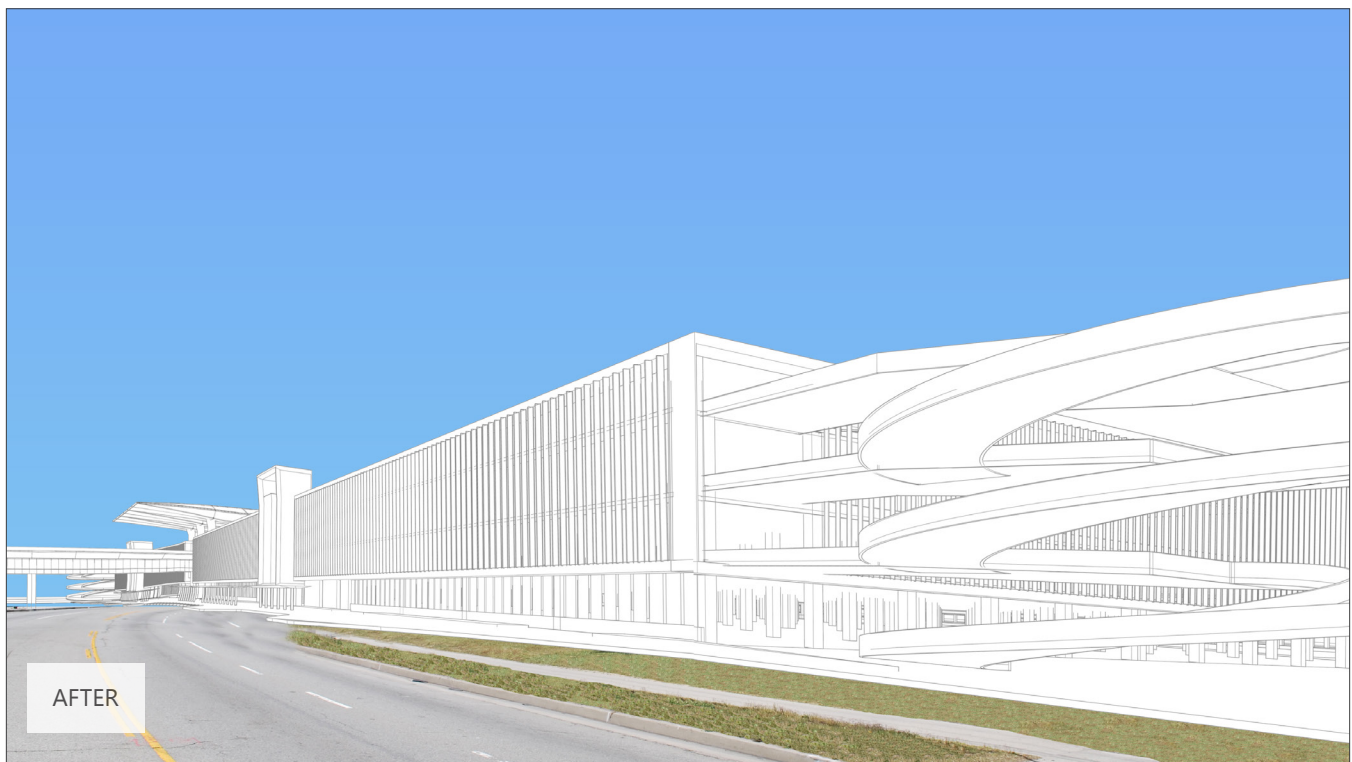
FIGURE M-7

Northeast-Facing View
from Century Boulevard/Aviation Boulevard toward ITF East

PHOTOGRAPH LOCATION 7



BEFORE



AFTER

NOTE: Photograph location corresponds to the key map in Figure M-1.
SOURCE: Meridian Consultants, October 2015; Ricondo & Associates, Inc., November 2015.
PREPARED BY: Ricondo & Associates, Inc., August 2017.

FIGURE M-8

Northeast-Facing View
from Aviation Boulevard toward ITF East

PHOTOGRAPH LOCATION 8

BEFORE



AFTER



NOTE: Photograph location corresponds to the key map in Figure M-1.

SOURCE: Meridian Consultants, October 2015; Ricondo & Associates, Inc., November 2015.

PREPARED BY: Ricondo & Associates, Inc., August 2017.

FIGURE M-9

Southwest-Facing View of Aviation Boulevard
toward APM and ITF East

PHOTOGRAPH LOCATION 9



BEFORE



AFTER

NOTE: Photograph location corresponds to the key map in Figure M-1.

SOURCE: Meridian Consultants, October 2015; Ricondo & Associates, Inc., November 2015.

PREPARED BY: Ricondo & Associates, Inc., August 2017.

FIGURE M-10

Southeast-Facing View
from Arbor Vitae Street/Aviation Boulevard toward CONRAC

PHOTOGRAPH LOCATION 10



NOTE: Photograph location corresponds to the key map in Figure M-1.

SOURCE: Meridian Consultants, October 2015; Ricondo & Associates, Inc., November 2015.

PREPARED BY: Ricondo & Associates, Inc., August 2017.

FIGURE M-11

West-Facing View along 96th Street/APM Alignment

PHOTOGRAPH LOCATION 11



NOTE: Photograph location corresponds to the key map in Figure M-1.

SOURCE: Meridian Consultants, October 2015; Ricondo & Associates, Inc., November 2015.

PREPARED BY: Ricondo & Associates, Inc., August 2017.

FIGURE M-12

Northwest-Facing View from 96th Street toward ITF West

PHOTOGRAPH LOCATION 12



BEFORE



AFTER

NOTE: Photograph location corresponds to the key map in Figure M-1.
SOURCE: Meridian Consultants, October 2015; Ricondo & Associates, Inc., November 2015.
PREPARED BY: Ricondo & Associates, Inc., August 2017.

FIGURE M-13

South-Facing View
from Westchester Parkway along Jenny Avenue toward ITF West

PHOTOGRAPH LOCATION 13



NOTE: Photograph location corresponds to the key map in Figure M-1.
SOURCE: Meridian Consultants, October 2015; Ricondo & Associates, Inc., November 2015.
PREPARED BY: Ricondo & Associates, Inc., August 2017.

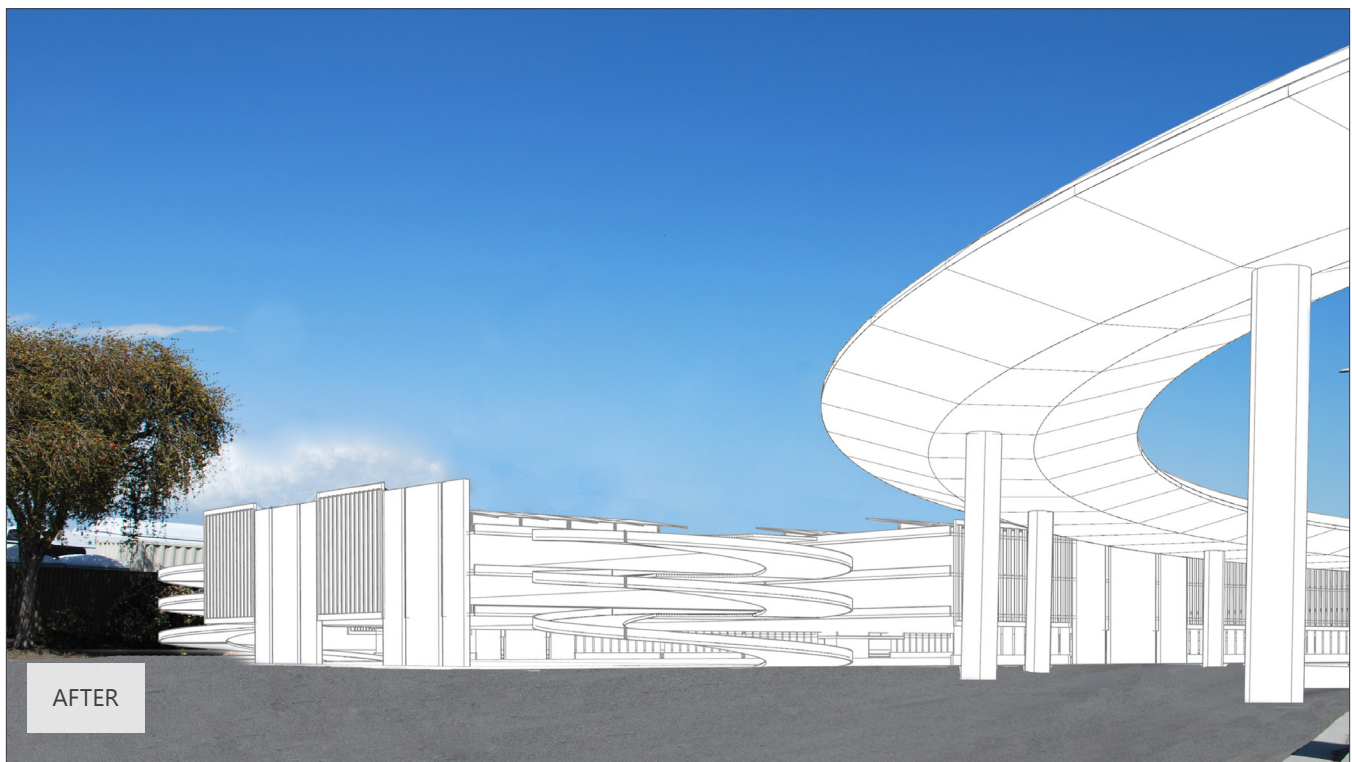
FIGURE M-14

North-Facing View from 98th Street toward ITF West

PHOTOGRAPH LOCATION 14



BEFORE



AFTER

NOTE: Photograph location corresponds to the key map in Figure M-1.
SOURCE: Meridian Consultants, October 2015; Ricondo & Associates, Inc., November 2015.
PREPARED BY: Ricondo & Associates, Inc., August 2017.

FIGURE M-15

Northeast-Facing View from 96th Street toward ITF West

PHOTOGRAPH LOCATION 15



BEFORE



AFTER

NOTE: Photograph location corresponds to the key map in Figure M-1.

SOURCE: Meridian Consultants, October 2015; Ricondo & Associates, Inc., November 2015.

PREPARED BY: Ricondo & Associates, Inc., August 2017.

FIGURE M-16

Northeast-Facing View
from Century Boulevard toward APM Alignment

[Preliminary Draft for Discussion Purposes Only]

PHOTOGRAPH LOCATION 16

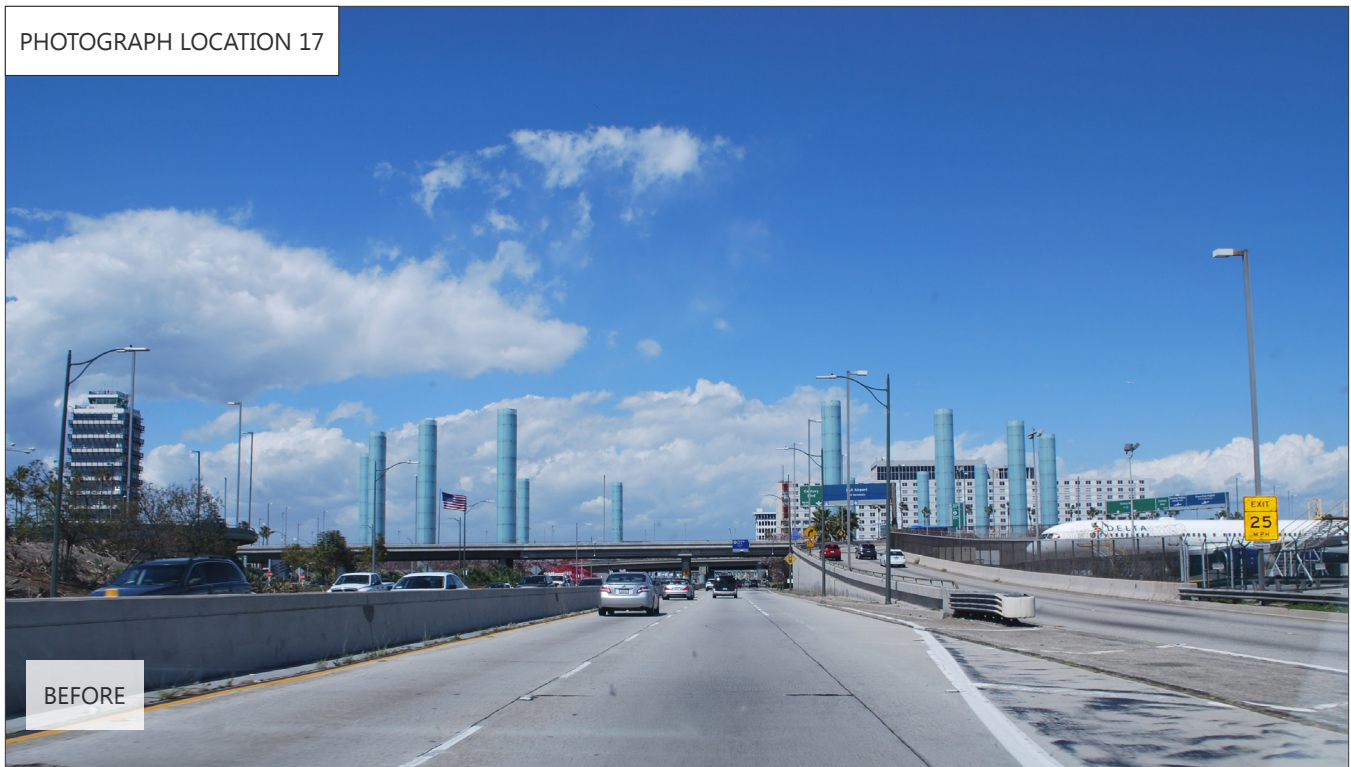


NOTE: Photograph location corresponds to the key map in Figure M-1.
SOURCE: Meridian Consultants, October 2015; Ricondo & Associates, Inc., November 2015.
PREPARED BY: Ricondo & Associates, Inc., August 2017.

FIGURE M-17

West-Facing View along Century Boulevard toward APM Alignment

PHOTOGRAPH LOCATION 17



BEFORE



AFTER

NOTE: Photograph location corresponds to the key map in Figure M-1.

SOURCE: Meridian Consultants, October 2015; Ricondo & Associates, Inc., November 2015.

PREPARED BY: Ricondo & Associates, Inc., August 2017.

FIGURE M-18

North-Facing View along Sepulveda Boulevard

PHOTOGRAPH LOCATION 18



NOTE: Photograph location corresponds to the key map in Figure M-1.
SOURCE: Meridian Consultants, October 2015; Ricondo & Associates, Inc., November 2015.
PREPARED BY: Ricondo & Associates, Inc., August 2017.

FIGURE M-19

Southeast-Facing View from Lincoln Boulevard

PHOTOGRAPH LOCATION 19



BEFORE



AFTER

NOTE: Photograph location corresponds to the key map in Figure M-1.
SOURCE: Meridian Consultants, October 2015; Ricondo & Associates, Inc., November 2015.
PREPARED BY: Ricondo & Associates, Inc., August 2017.

FIGURE M-20

West-Facing View of CTA from World Way (upper deck)

PHOTOGRAPH LOCATION 20



BEFORE



AFTER

NOTE: Photograph location corresponds to the key map in Figure M-1.
SOURCE: Meridian Consultants, October 2015; Ricondo & Associates, Inc., November 2015.
PREPARED BY: Ricondo & Associates, Inc., August 2017.

FIGURE M-21

Northwest-Facing View of CTA from World Way (upper deck)

PHOTOGRAPH LOCATION 21



BEFORE



AFTER

NOTE: Photograph location corresponds to the key map in Figure M-1.
SOURCE: Meridian Consultants, October 2015; Ricondo & Associates, Inc., November 2015.
PREPARED BY: Ricondo & Associates, Inc., August 2017.

FIGURE M-22

Northeast-Facing View from World Way toward P4 Parking Garage

PHOTOGRAPH LOCATION 22



BEFORE



AFTER

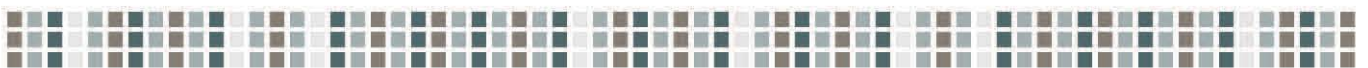
NOTE: Photograph location corresponds to the key map in Figure M-1.
SOURCE: Meridian Consultants, October 2015; Ricondo & Associates, Inc., November 2015.
PREPARED BY: Ricondo & Associates, Inc., August 2017.

FIGURE M-23

Southeast-Facing View from World Way toward P3 Parking Garage

Appendix N

Scoping Report



Los Angeles World Airports



LAX Landside Access Modernization Program Environmental Assessment Scoping Report

PREPARED FOR:

Los Angeles World Airports

PREPARED BY:

RICONDO & ASSOCIATES, Inc.

August 2017

Draft

Table of Contents

1.	Public Scoping Meeting	1
1.1	Scoping Meeting Summary	1
1.2	Scoping Comments Received	1

List of Attachments

Attachment 1	Scoping Meeting Materials
Attachment 2	Scoping Comments

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1. Public Scoping Meeting

A scoping meeting was conducted to disseminate information about the proposed LAX Landside Access Modernization Program, the Environmental Assessment (EA) process, and identify concerns federal, state, and local agencies; community groups; special interest groups; and the general public may have about the proposed project and EA process. This report contains the information provided to attendees of the scoping meeting, mailing lists, sign-in sheets, and comments received.

1.1 Scoping Meeting Summary

A scoping meeting was held June 22, 2016 from 5:00 p.m. to approximately 8:00 p.m. at Los Angeles Fire Station #5 located at 8900 S. Emerson Avenue, 90045 in Los Angeles, CA. Letters describing the project and inviting federal, state, and local agencies were sent to 162 individuals. A copy of the scoping letter and mailing list is included in **Attachment 1**. Presentation boards describing the proposed project were displayed, Frequently Asked Questions and Fact Sheets were provided, and Airport and consultant staff were available to describe the project and answer questions. A summary of the scoping meeting, along with a copy of the presentation materials and sign-in sheets are also included in Attachment 1. Two written comments were received at the meeting (see **Attachment 2**) and are summarized in **Table 1-1**.

1.2 Scoping Comments Received

Scoping comments were solicited over a 38-day period, commencing on June 3, 2016 with publication of the public notice in *the LA Times*, followed by *The Argonaut* and the *Daily Breeze* on June 9, 2016, and concluding on July 11, 2016 at 5:00 p.m. During this time, interested parties, responsible agencies, and the general public were encouraged to provide input on the purpose and need for the project, alternatives considered, and to identify any specific concerns that should be examined in the EA.

A total of 4 comment letters, comment forms, or emails were received during the scoping period (see Attachment 2). The commenters and their comments are summarized in Table 1-1.

Table 1-1 Summary of Scoping Comments Received

DATE	COMMENTER	SUMMARY OF COMMENT(S)
June 30, 2016	Henry Wong, M.S., P.E., T.E., Los Angeles County Department of Public Works	Requested the Environmental Assessment be provided once released so that the project can be analyzed for potential impacts to Unincorporated County communities, infrastructures, and Los Angeles County Flood Control District facilities in the vicinity of the project.
July 10, 2016	William Cumming, Chair, Los Angeles International Airport Area Advisory Committee	Noted that the latest LAWA and LAMP planning documents include an increase in annual passengers (MAP) from the LAX Master Plan. Noted it appears the EIR will not evaluate the environmental impacts or mitigation for the increase in MAP. Asserts the LAMP would facilitate the increase in passengers. The committee noted that congestion would occur on major roadways (Lincoln Blvd., Sepulveda Blvd., etc.) located near the LAMP and suggested routing of traffic onto dedicated side streets for direct access to LAMP, staggered lighting, and other mitigation measures along nearby roadways and intersections. Also noted was the lack of connectivity to the new facilities from northbound I-405. Improved connections were recommended. Additional South Bay intersections were recommended for analysis. Commenter also noted that parking accommodations are expensive which has led to travelers parking on surrounding city streets. Notes the LAMP project could exacerbate the problem. Recommends the EIR make parking a major consideration.
July 11, 2016	Jean Armbruster, M.A., Director, PLACE Program, Los Angeles County Department of Public Health	Noted that multimodal transportation accommodations should be provided along with nearby intersection improvements. Commenter noted that efforts should be made to ensure that residents would not be impacted by construction debris, noise and traffic congestion.
July 11, 2016	Joseph Petta, Shute, Mihaly & Weinberger LLP, on behalf of the City of El Segundo	Noted that the NEPA document should provide an analysis of the project's growth inducing effects. Anticipates the NEPA document should be an EIS. Asserts the project would remove existing ground access constraints and allow LAX to process a higher volume of passengers than previous planning documents considered. The EA must examine the direct and secondary effects of updating the 2004 Master Plan's growth forecast, including the entrance of new aircraft operators. EA should identify and analyze the impacts of the potential growth in MAP numbers and flights that the Project would facilitate. LAWA must fully analyze the Project's and Future Development's traffic impacts, including during construction. The noise analysis must also address aviation noise effects caused by ongoing and increased operations at LAX. The EA must assess to what extent the Project will undermine air quality improvements that will occur due to technological advances and federal and state regulations. The EA's climate change analysis must include greenhouse gas ("GHG") emissions attributable to a higher MAP scenario. LAWA should evaluate a constrained growth alternative whereby the proposed Project would accommodate passenger levels up to some number at or below 82.9 MAP, the low end of the range forecast for LAX in the 2040 RTP/SCS. In order to adequately evaluate the effects of these essential "enabling" components of the project, LAWA must provide details of the current uses of each of these buildings, specify exactly when and where those uses will be relocated, and analyze any effects of shifting these uses to new locations. The City urges that any proposed construction staging be located away from El Segundo. The EA must identify and analyze the Project's effects when considered with these and other past, present, and reasonably foreseeable development at the airport and in the surrounding area. The City strongly encourages LAWA to coordinate its responsibilities under NEPA and CEQA by combining its analysis into a joint NEPA/CEQA document.
July 22, 2016	Robert Acherman	How much publicity was done? Resident turnout was low.
July 22, 2016	Raynald Davis	People mover safety must be first and foremost. Regarding security, there must be a remote check-in/inspection at the transit station. Only small baggage (limit 2) on the tram.

Attachment 1

Scoping Meeting Materials



**NOTICE OF PUBLIC SCOPING MEETING
Los Angeles International Airport (LAX)
Environmental Assessment**

The Los Angeles World Airports (LAWA) will hold a public scoping meeting/information workshop on an Environmental Assessment (EA) of the proposed LAX Landside Access Modernization Program.

**Wednesday, June 22, 2016
5:00 PM to 8:00 PM**

**Los Angeles Fire Station #5
8900 S. Emerson Avenue
Los Angeles, CA 90045**

PROPOSED ACTION: LAWA proposes to implement the LAX Landside Access Modernization Program to continue to transform LAX into a world-class airport by relieving traffic congestion within the Central Terminal Area (CTA) and on the surrounding street network, improving the travel experience for passengers, and providing connection to the regional Los Angeles County Metropolitan Transportation Agency (MTA or Metro) rail system. The LAX Landside Access Modernization Program (the Project) consists of several primary components. An Automated People Mover (APM) system with 6 stations would transport passengers between the CTA and the other main components of the Project located east of the CTA, including a Consolidated Rental Car Facility (CONRAC), new public parking facilities and multiple locations for passenger pick up and drop off. To provide the opportunity for passengers to access the Metro regional rail system, the APM system would include a station at the multi-modal/transit facility at 96th Street/Aviation Boulevard planned by Metro as a separate and independent project. The LAX Landside Access Modernization Program would reduce traffic volumes and congestion within the CTA as well as on local streets.

Project components associated with the LAX Landside Access Modernization Program include: 1) an APM system with six APM stations connecting the CTA to new ground transportation facilities proposed between Sepulveda Boulevard and Interstate 405; 2) passenger walkway systems connecting the APM stations to passenger terminals or ground transportation facilities; 3) modifications to existing passenger terminals and parking garages within the CTA for passenger walkway system connections and vertical circulation to the arrival, departure, and concourse levels; 4) intermodal transportation facilities (ITF) that would provide pick up and drop off areas outside the CTA for airport passengers and commercial shuttles, meet and greet areas, passenger processing facilities, and other amenities, parking, and access to the APM system; 5) a CONRAC that would be designed to consolidate car rental agencies in a centralized location with access to the CTA via the APM; 6) roadway improvements designed to improve access to the CTA from the freeway and provide access to the proposed ITFs and CONRAC; and 7) utilities needed to support the LAX Landside Access Modernization Program.

PURPOSE OF PUBLIC SCOPING MEETING: The meeting will provide an opportunity for public comment concerning the Proposed Action, purpose and need for the Proposed Action, alternatives to the Proposed Action, and potential environmental effects of the LAX Landside Access Modernization Program to be analyzed in the Draft EA. The scoping meeting will be held in an informal open house format. Representatives from LAWA and study team will be available to talk with citizens about the environmental review. Graphics will be on display so citizens can review project details and attendees will have an opportunity to provide oral and written comments on the scope and content of the Draft EA.

ENVIRONMENTAL ASSESSMENT: The EA will be prepared in accordance with the National Environmental Policy Act (NEPA) to examine potential impact categories as required by Federal Aviation Administration Order 1050.1F and Order 5050.4B. Once prepared, the Draft EA will be available for public and agency review and comment on the project's website <http://www.connectinglax.com>.

SCOPING COMMENTS: Comments can be submitted on the LAX website (<http://www.connectinglax.com>) or sent to Ms. Evelyn Quintanilla, Chief of Airport Planning, at the

following address:

Los Angeles World Airports
1 World Way, Room 218
Los Angeles, CA 90045
Phone: (800) 919-3766

Comments must be received by LAWA **no later than 5:00 p.m. on July 11, 2016.**

Sign Language Interpreters, Communication Access Real-Time Transcription, Assistive Listening Devices, or other auxiliary aids and/or services may be provided upon request. To ensure availability, you are advised to make your request at least 72 hours prior to the. Due to difficulties in securing Sign Language Interpreters, five or more business days notice is strongly recommended. For additional information, please contact: LAWA's Coordinator for Disability Services at (424) 646-5005 or via California Relay Service at 711.

Si desea esta información en español, visite www.OurLAX.org o llame a (424) 646-7690

**PROOF OF PUBLICATION
(2015.5 C.C.P.)**

**STATE OF ILLINOIS
County of Cook**

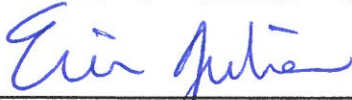
I am a citizen of the United States and a resident of the County aforesaid; I am over the age of eighteen years, and not a party to or interested in the action for which the attached notice was published.

I am a principal clerk of the Los Angeles Times, which was adjudged a newspaper of general circulation on May 21, 1952, Cases 598599 for the City of Los Angeles, County of Los Angeles, and State of California. Attached to this Affidavit is a true and complete copy as was printed and published on the following date(s):

Jun 03, 2016

**I certify (or declare) under penalty of perjury
under the laws of the State of California that the foregoing is true and correct.**

Dated at Chicago, Illinois
on this 06 day of 06, 2016.



[signature]

435 N. Michigan Ave.
Chicago, IL 60611

PROOF OF PUBLICATION (2015.5 C.C.P.)

STATE OF CALIFORNIA
County of Los Angeles

I am a citizen of the United States and a resident of the County aforesaid; I am over the age of eighteen years, and not a party to or interested in the above-entitled matter. I am the principal clerk of the printer of The Argonaut, a newspaper of general circulation, printed and published weekly in the County of Los Angeles, State of California, under the date of March 7, 1973, modified October 5, 1976, Case Number C47170; that the notice, of which the annexed is a printed copy (set in type not smaller than nonpareil), has been published in each regular and entire issue of said newspaper and not in any supplement thereof on the following dates, to-wit:

6/9

All in the year 2016

I certify (or declare) under penalty of perjury that the foregoing is true and correct.

Dated at _____

California, Los Angeles

Signature:

Chantal Marselis

Chantal Marselis

The Argonaut
Local News & Culture.

Located at:
5301 Beethoven St. Suite 183
Los Angeles, CA 90066
(310) 822-1629 x 103

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NOTICE OF PUBLIC SCOPING MEETING Los Angeles International Airport (LAX) Environmental Assessment

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**NOTICE OF PUBLIC SCOPING MEETING
Los Angeles International Airport (LAX)
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STATE OF CALIFORNIA County of Los Angeles

I am a citizen of the United States and a resident of the County aforesaid; I am over the age of eighteen years, and not a party to or interested in the above-entitled matter. I am the principal clerk of the printer of THE DAILY BREEZE, a newspaper of general circulation, printed and published in the City of Torrance*, County of Los Angeles, and which newspaper has been adjudged a newspaper of general circulation by the Superior Court of County of Los Angeles, State of California, under the date of June 10, 1974, Case Number SWC7146. The notice, of which the annexed is a printed copy (set in type not smaller than nonpareil), has been published in each regular and entire issue of said newspaper and not in any supplement thereof on the following dates, to wit:

06/09/2016

I certify (or declare) under the penalty of perjury that the foregoing is true and correct.

Dated at Torrance, California
On this 13th day of June, 2016.



Signature

*The Daily Breeze circulation includes the following cities: Carson, Compton, Culver City, El Segundo, Gardena, Harbor City, Hawthorne, Hermosa Beach, Inglewood, Lawndale, Lomita, Long Beach, Manhattan Beach, Palos Verdes Peninsula, Palos Verdes, Rancho Palos Verdes, Rancho Palos Verdes Estates, Redondo Beach, San

(Space below for use of County Clerk Only)

Legal No. **0010810140**

DB 6-9

NOTICE OF PUBLIC SCOPING MEETING Los Angeles International Airport (LAX) Environmental Assessment

The Los Angeles World Airports (LAWA) will hold a public scoping meeting/information workshop on an Environmental Assessment (EA) of the proposed LAX Landside Access Modernization Program.

**Wednesday, June 22, 2016
5:00 PM to 8:00 PM**

**Los Angeles Fire Station #5
8900 S. Emerson Avenue
Los Angeles, CA 90045**

PROPOSED ACTION: LAWA proposes to implement the LAX Landside Access Modernization Program to continue to transform LAX into a world-class airport by relieving traffic congestion within the Central Terminal Area (CTA) and on the surrounding street network, improving the travel experience for passengers, and providing connection to the regional Los Angeles County Metropolitan Transportation Agency (MTA or Metro) rail system. The LAX Landside Access Modernization Program (the Project) consists of several primary components. An Automated People Mover (APM) system with 6 stations would transport passengers between the CTA and the other main components of the Project located east of the CTA, including a Consolidated Rental Car Facility (CONRAC), new public parking facilities and multiple locations for passenger pick up and drop off. To provide the opportunity for passengers to access the Metro regional rail system, the APM system would include a station at the multi-modal/transit facility at 96th Street/Aviation Boulevard planned by Metro as a separate and independent project. The LAX Landside Access Modernization Program would reduce traffic volumes and congestion within the CTA as well as on local streets.

Project components associated with the LAX Landside Access Modernization Program include: 1) an APM system with six APM stations connecting the CTA to new ground transportation facilities proposed between Sepulveda Boulevard and Interstate 405; 2) passenger walkway systems connecting the APM stations to passenger terminals or ground transportation facilities; 3) modifications to existing passenger terminals and parking garages within the CTA for passenger walkway system connections and vertical circulation to the arrival, departure, and concourse levels; 4) intermodal transportation facilities (ITF) that would provide pick up and drop off areas outside the CTA for airport passengers and commercial shuttles, meet and greet areas, passenger processing facilities, and other amenities, parking, and access to the APM system; 5) a CONRAC that would be designed to consolidate car rental agencies in a centralized location with access to the CTA via the APM; 6) roadway improvements designed to improve access to the CTA from the freeway and provide access to the proposed ITFs and CONRAC; and 7) utilities needed to support the LAX Landside Access Modernization Program.

PURPOSE OF PUBLIC SCOPING MEETING: The meeting will provide an opportunity for public comment concerning the Proposed Action, purpose and need for the Proposed Action, alternatives to the Proposed Action, and potential environmental effects of the LAX Landside Access Modernization Program to be analyzed in the Draft EA. The scoping meeting will be held in an informal open house format. Representatives from LAWA and study team will be available to talk with citizens about the environmental review. Graphics will be on display so citizens can review project details and attendees will have an opportunity to provide oral and written comments on the scope and content of the Draft EA.

ENVIRONMENTAL ASSESSMENT: The EA will be prepared in accordance with the National Environmental Policy Act (NEPA) to examine potential impact categories as required by Federal Aviation Administration Order 1050.1F and Order 5050.4B. Once prepared, the Draft EA will be available for public and agency review and comment on the project's website <http://www.connectinglax.com>.

SCOPING COMMENTS: Comments can be submitted on the LAX website (<http://www.connectinglax.com>) or sent to Ms. Evelyn Quintanilla, Chief of Airport Planning, at the following address:

Los Angeles World Airports
1 World Way, Room 218
Los Angeles, CA 90045
Phone: (800) 919-3766

Comments must be received by LAWA **no later than 5:00 p.m. on July 11, 2016.**

Sign Language Interpreters, Communication Access Real-Time Transcription, Assistive Listening Devices, or other auxiliary aids and/or services may be provided upon request. To ensure availability, you are advised to make your request at least 72 hours prior to the. Due to difficulties in securing Sign Language Interpreters, five or more business days' notice is strongly recommended. For additional information, please contact: LAWA's Coordinator for Disability Services at (424) 646-5005 or via California Relay Service at 711.

Si desea esta información en español, visite www.OurLAX.org o llame a (424) 646-7690

Published: June 9, 2016



June 10, 2016

LAX Area Advisory Committee
Attention: Rose Cote
Los Angeles World Airports

LAX

LA/Ontario

Van Nuys

City of Los Angeles

Eric Garcetti
Mayor

Board of Airport
Commissioners

Sean O. Burton
President

Valeria C. Velasco
Vice President

Jeffery J. Daar
Gabriel L. Eshaghian
Beatrice C. Hsu
Nolan V. Rollins
Dr. Cynthia A. Telles

Deborah Flint
Chief Executive Officer

Subject: Environmental Assessment for Los Angeles International Airport (LAX),
Landside Access Modernization Program

Dear LAXAAC Members:

LAWA proposes to implement the LAX Landside Access Modernization Program to continue to transform LAX into a world-class airport by improving connectivity and mobility for passengers and employees, relieving traffic congestion within the Central Terminal Area (CTA) and on the surrounding street network, improving the travel experience for passengers, and providing connection to the regional Los Angeles County Metropolitan Transportation Agency (MTA or Metro) rail system. The EA is being prepared to comply with Federal Aviation Administration (FAA) requirements under the National Environmental Policy Act (NEPA).

The Proposed Action includes the following components as shown on **Exhibit 1:**

Table 1: LAX Landside Access Modernization Program Project Elements

PROJECT ELEMENT	GENERAL DESCRIPTION
APM System	A 2.25-mile Automated People Mover (APM) system with six APM stations connecting the CTA to new proposed ground transportation facilities; passenger walkway systems connecting the APM stations to passenger terminals, parking garages, and ground transportation facilities; modifications to existing passenger terminals and parking garages to support the APM walkway system connections, including vertical circulation cores to the arrival, departure, and concourse levels;
APM Maintenance and Storage Facility	The APM Maintenance and Storage Facility where the APM train cars would be cleaned, repaired, and washed; it would also be the operating center of the APM system.
APM Power Substations	Three traction power substations (TPSS) would provide power to the APM guideway.
ITF West	The ITF West facility would include an APM station, two new adjacent and interconnected public parking structures (one with four elevated parking decks and one with five elevated parking decks), a commercial vehicle curb, and internal circulation roads.
ITF East	The ITF East facility would include an APM station, an adjacent and interconnected public parking structure, a commercial vehicle curb, and internal circulation roads.
CONRAC Facility	The CONRAC would provide a centralized location for car rental agencies serving LAX passengers. It would include a customer service building, APM station, ready/return garage, idle storage garage, and quick turnaround areas.
Roadway Improvements	



PROJECT ELEMENT	GENERAL DESCRIPTION
New 'A' St	New 2,400-foot roadway between Westchester Parkway and Century Blvd
New 'B' St	New 1,700-foot roadway between new 'A' St and Airport Blvd
New 'C' St	New 1,200-foot roadway between Imperial Hwy and W. 111 th St (I-105 ramp improvements)
New 'D' St	New 1,100-foot roadway between W. 96 th St and W. Arbor Vitae St
New 98 th St	New 3,400-foot roadway between Bellanca Ave and La Cienega Blvd
New Concourse Way	New 500-foot roadway between Century Blvd and new 98 th St
Sepulveda Blvd	Sepulveda Tunnel to W. 96 th St – widen to up to 4 lanes in each direction. Improvements include new ramps to Sky Way to/from World Way, to/from Century Boulevard, to/from new "A" St.
Airport Blvd	W. 98 th St to West Arbor Vitae St – widen to provide up to 3 lanes in each direction
West Arbor Vitae St	Airport Blvd to La Cienega Blvd – widen to provide up to 3 lanes in each direction
West Arbor Vitae St Overcrossing	La Cienega Blvd to City Limits – widen to provide up to 3 lanes in east direction and 2 lanes in west direction
West 96 th St	Airport Blvd to Bellanca Ave – widen by 15 feet
West 98 th St	New 'A' St to Bellanca Blvd – widen to provide up to 2 lanes in each direction
Century Blvd	New 'A' St. to Aviation Blvd – widen to provide up to additional lane in east direction
Aviation Blvd	Century Blvd to West Arbor Vitae St – widen to provide up to 3 lanes in each direction
La Cienega Blvd	Century Blvd to W. Arbor Vitae St – widen to provide up to 3 lanes in each direction
I-405 ramps at La Cienega Boulevard	Widen to provide 2 additional lanes at the La Cienega Blvd intersection
Parking Garage P2A	Existing parking garage would be demolished and a replacement garage would be constructed in the CTA.
Parking Garage P2B	Existing parking garage would be demolished and a replacement garage would be constructed in the CTA.
Parking Garage P5	Existing parking garage would be demolished and a replacement garage would be constructed in the CTA.
Clifton Moore Administration Building (1 World Way)	Building would be demolished and LAWA administrative offices would be relocated to the existing LAWA-owned Skyview Center located at 6033 and 6053 W. Century Boulevard.
Bob Hope Hollywood USO	Building would be demolished. Existing uses would be accommodated elsewhere on-Airport property.
Restaurant Building	Building would be demolished.
Metro Bus Terminal	Transportation center would be demolished and relocated to the Metro Airport Metro Connector (AMC) station to be constructed adjacent to the ITF East.
Delta Hangar Complex	Buildings would be demolished. Replacement facilities would be constructed on-Airport property.
Reliant Medical Center	Building would be demolished. Existing uses would be accommodated elsewhere on-Airport property.

Purpose and Need for Project

The purpose of the proposed project is to improve connectivity and mobility for passengers and employees by developing a flexible transportation system that provides time-certain travel options; improves access options by creating new convenient locations for passenger pick-up, drop-off, and parking outside of the Central Terminal Area, including a direct connection to public transit; provides easier and more efficient access to rental cars; and relieves congestion in the CTA and on the surrounding streets.

The need for the project is described in the following paragraphs. Access to the airport is restricted to a single entrance at the intersection of Sepulveda Boulevard and West Century Boulevard, which all passengers, employees, and commercial drivers transporting those passengers must utilize in order to access the passenger terminals. During peak travel periods, this causes traffic congestion within the Central Terminal Area that frequently spills out onto the surrounding street network, causing delays and gridlock affecting local arterials including Interstate 105.

Passengers lack convenient access options that provide a time-certain arrival or an efficient exit, which negatively affects the passenger experience and increases traffic congestion. Passengers who choose to park remotely or stay in local hotels, or take public transit to LAX, must take a bus, shuttle, taxi or similar service into or out of the CTA to the appropriate terminal. The hotel, off-airport parking, and rental car shuttles circle through the airport roadways in order to drop-off then pick-up passengers, adding to the congestion along World Way. LAX also lacks a direct connection to the Los Angeles County Metropolitan Transit Agency (Metro) commuter train system. Currently passengers and employees desiring to take public transportation to LAX must either take buses the entire way, or take a Metro commuter train line to Imperial and Aviation and then transfer to buses to get to the airport.

Unlike most major U.S. airports, LAX does not have a consolidated rental car facility that provides a convenient and centralized location for airport passengers to rent and return cars. Currently, there are over 20 properties located north and east of the airport that are used by the various rental car companies for their individual operational needs. As a result, there are over 50 directional signs scattered around the airport directing rental car customers to the various rental car lots, which leads to driver confusion and challenging wayfinding, causing traffic and congestion on the surrounding streets. Rental car shuttles add over 3,200 shuttle trips a day on airport and surrounding streets contributing to traffic congestion, vehicle miles travelled, and air emissions.

Alternatives

The alternatives which will be discussed in the EA include a range of alternative APM alignments, CONRAC configurations, and roadway improvements; the Proposed Action; and the No Action Alternative. The EA will document the methodology used to determine the alternatives to be considered as well as the screening process used to conclude which alternatives would feasibly satisfy the purpose of and need for the proposed project.

Environmental Consequences

The potential environmental impacts of the proposed project will be analyzed and documented in the EA. Federal guidance for the environmental process encourages public involvement to assist the lead agency in identifying potential issues to be analyzed in the EA. Known potential environmental issues that will be assessed include:

- Air Quality and Climate
- Hazardous Materials, Solid Waste, and Pollution Prevention

- Historical, Architectural, Archaeological, and Cultural Resources
- Land Use
- Natural Resources and Energy Supply
- Noise and Noise-Compatible Land Use
- Socioeconomics, Environmental Justice, and Children's Environmental Health and Safety Risks including traffic
- Visual Effects
- Water Resources
- Cumulative Impacts

EA Process and Schedule

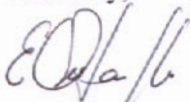
LAWA is in the process of developing the EA, and plans to release the draft EA for public and agency review in the first quarter of 2017. The EA will document the project's purpose and need, the Proposed Action and alternatives to the Proposed Action, the affected environment, and environmental consequences. If you or someone in your organization has any specific concerns with the project, or recommend that particular environmental impacts, alternatives, purpose and need considerations or other issue(s) should be addressed in the EA, we would appreciate written correspondence by July 11, 2016 to discuss your concerns. Please address all comments to:

Ms. Evelyn Quintanilla
Chief of Airport Planning
Los Angeles World Airports
1 World Way, Room 218
Los Angeles, CA 90045
Phone: (800) 919-3766

A public information workshop/scoping meeting on the initiation of the EA will be held on Wednesday, June 22, 2016 from 5:00 PM to 8:00 PM at the Los Angeles Fire Station #5, 8900 S. Emerson Avenue, Los Angeles, CA 90045

The meeting will provide an opportunity for public comment concerning the Proposed Action, purpose and need for the Proposed Action, alternatives to the Proposed Action, and potential environmental effects of the LAX Landside Access Modernization Program to be analyzed in the Draft EA. The scoping meeting will be held in an informal open house format. Representatives from LAWA and study team will be available to talk with citizens about the environmental review. Graphics will be on display so citizens can review project details and attendees will have an opportunity to provide written comments on the scope and content of the Draft EA.

Sincerely,

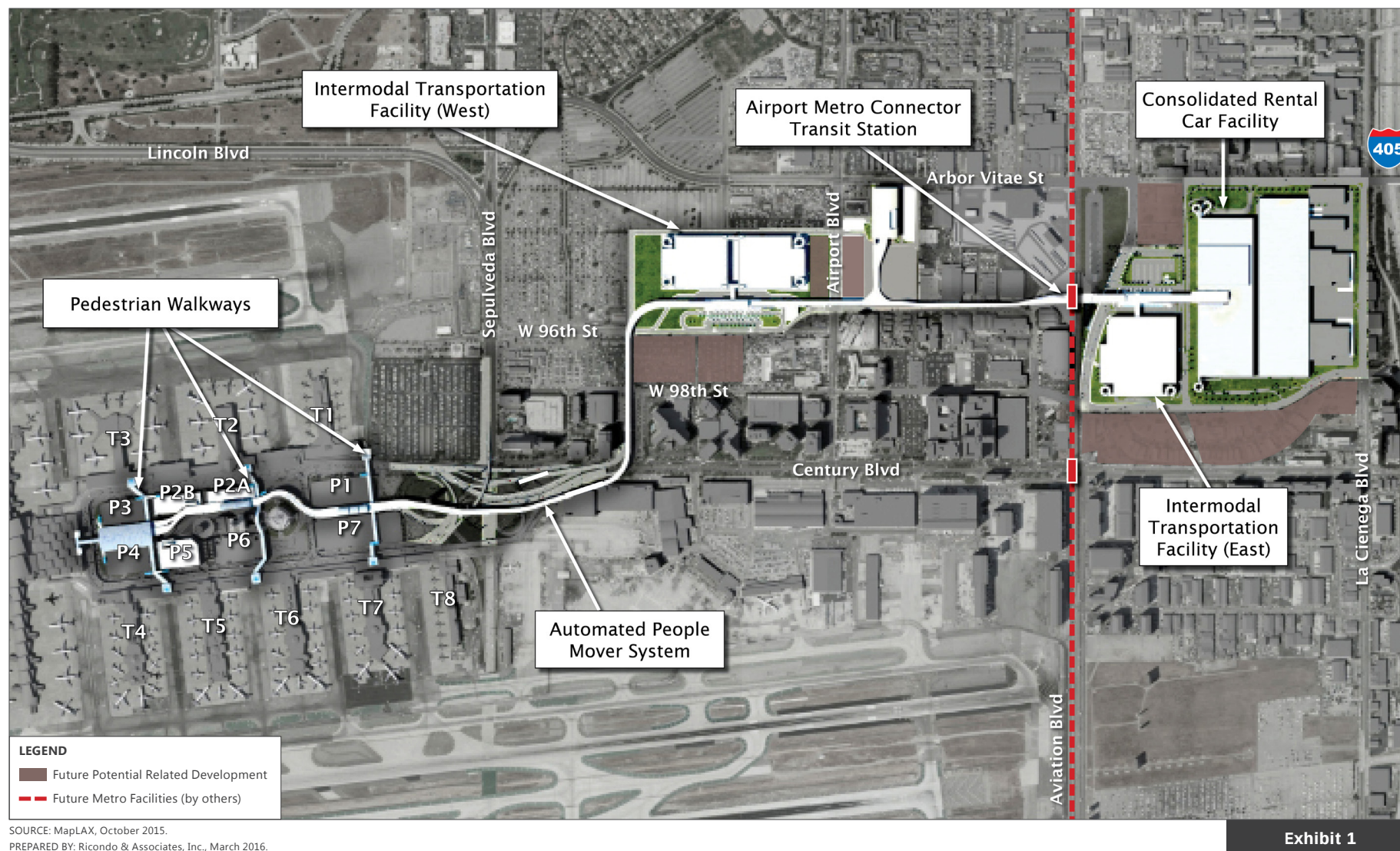


Evelyn Quintanilla
Chief of Airport Planning

Attachments (1): Exhibit 1: LAX Landside Access Modernization Program Overview

EQ:bms

[Preliminary Draft for Discussion Purposes Only]



SOURCE: MapLAX, October 2015.

PREPARED BY: Ricondo & Associates, Inc., March 2016.

LAX Landside Access Modernization Program Overview

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Contact List

Advantage Rent A Car

Tim Pohle
Assistant General Counsel
Airlines for America (A4A)

Alamo Rent-A-Car

Denny Schneider
President
Alliance for A Regional Solution to Airport Congestion
(ARSAC)

Lori Peters
AvAirPros

Avis RentA-Car

Sandy Miller
EXECUTIVE ASSISTANT II
BOAC OFFICE

Barbara Lichman, Ph.D.
Representing the Cities of Inglewood and Culver City
Buchalter Nemer

Budget Rent A Car

Dan Feger
Executive Director
Burbank-Glendale-Pasadena Airport Authority

Dianna Watson
Cal Trans - District 7

Sandy Hesnard
Cal Trans - Div. of Aeronautics

Shirley Kelly
Office of Special Projects
California Highway Patrol

Noel Takahara
Senior Utilities Engineer
California Public Utilities Commission, Safety and
Enforcement Division

Doug Carstens
Chatten-Brown & Carstens

Chatten-Brown & Carstens

Ph.D.
Chevalier, Allen & Lichman, LLP

Carol Schwab
City Attorney
City of Culver City

John Nachbar
City Manager
City of Culver City

Heather Baker
Assistant City Attorney
City of Culver City

Suzanne Fuentes
Mayor
City of El Segundo

Greg Carpenter
City Manager
City of El Segundo

Dave Atkinson
Councilman
City of El Segundo

Carl Jacobsen
Mayor Pro Tem
City of El Segundo

Kimberly Christenson
Planning Manager
City of El Segundo - Department of Planning and
Building Safety

James T. Butts, Jr.
Mayor's Office
City of Inglewood

Kenneth Campos
City Attorney
City of Inglewood

Michael Calzada
Director
City of Inglewood - Residential Sound Insulation
Department

HERB WESSON
COUNCIL MEMBER, 10TH DISTRICT
City of Los Angeles

MITCHELL ENGLANDER
COUNCIL MEMBER, 12TH DISTRICT
City of Los Angeles

Mitch O'Farrell
COUNCIL MEMBER, 13TH DISTRICT
City of Los Angeles

JOSE HUIZAR
COUNCIL MEMBER, 14TH DISTRICT
City of Los Angeles

JOE BUSCAINO
COUNCIL MEMBER, 15TH DISTRICT
City of Los Angeles

Gil Cedillo
COUNCIL MEMBER, 1ST DISTRICT
City of Los Angeles

PAUL KREKORIAN
COUNCIL MEMBER, 2ND DISTRICT
City of Los Angeles

Bob Blumenfeld
COUNCIL MEMBER, 3RD DISTRICT
City of Los Angeles

David Ryu
COUNCIL MEMBER, 4TH DISTRICT
City of Los Angeles

PAUL KORETZ
COUNCIL MEMBER, 5TH DISTRICT
City of Los Angeles

Nury Martinez
COUNCIL MEMBER, 6TH DISTRICT
City of Los Angeles

Felipe Fuentes
COUNCIL MEMBER, 7TH DISTRICT
City of Los Angeles

Marqueece Harris-Dawson
COUNCIL MEMBER, 8TH DISTRICT
City of Los Angeles

Curren Price
COUNCIL MEMBER, 9TH DISTRICT
City of Los Angeles

Mike Bonin
COUNCIL MEMBER, 11TH DISTRICT
City of Los Angeles

Gary Moore
City Engineer
City of Los Angeles - Bureau of Engineering

Ali Poosti
Division Manager
City of Los Angeles - Bureau of Sanitation

Suzanne Tracy
City of Los Angeles - City Attorney's Office

Vincent Bertoni
Planning Director
City of Los Angeles - Department of City Planning

Jay Kim
City of Los Angeles - Department of Transportation

Charles Holloway
City of Los Angeles - Department of Water and Power

James Featherstone
Interim Chief
City of Los Angeles Fire Department

Chris Hughes
City Manager
City of Ontario

John F. Kraptli
County Counsel
County of Los Angeles

William Fujioka
Chief Executive Officer
County of Los Angeles

Borja Leon
Mayor's Office
City of Los Angeles

Michael Patonai
City of Los Angeles - Bureau of Engineering

City of Los Angeles - Bureau of Sanitation

General Manager
City of Los Angeles - Department of Building & Safety

Sean Haeri
City of Los Angeles - Department of Transportation

Eddie Guerrero
Senior Transportation Engineer
City of Los Angeles - Department of Transportation

Ron Nichols
General Manager
City of Los Angeles - Department of Water and Power

CHARLIE BECK
Chief of Police
City of Los Angeles Police Department

Elaine Lemke
Principal Deputy County Counsel
County of Los Angeles

Lawrence Hefetz
Assistant County Counsel
County of Los Angeles

Richard J. Bruckner
Director of Regional Planning
County of Los Angeles

Omar Pulido County of Los Angeles - Council District 11 Field Office	Hilda Solis County of Los Angeles - County Supervisor 1st District
Mark Ridley-Thomas County of Los Angeles - County Supervisor 2nd District	Sheila Kuehl County of Los Angeles - County Supervisor 3rd District
Don Knabe County of Los Angeles - County Supervisor 4th District	Mike Antonovich County of Los Angeles - County Supervisor 5th District
Barry Kurtz P.E. County of Los Angeles - Department of Beaches and Harbors	Charlotte Miyamoto Chief, Planning Division County of Los Angeles - Department of Beaches and Harbors
Planning Division County of Los Angeles - Department of Public Works	Land Development Division County of Los Angeles - Department of Public Works
Impact Analysis Section County of Los Angeles - Department of Regional Planning	Giancola Michael County Executive Officer County of Orange
Carolyn Syms Luna Planning Director County of Riverside	Christine Kelly Director of Land Use Services Department County of San Bernardino
Michael Powers County Executive Officer County of Ventura	Courtyard by Marriott (LAX)
Crowne Plaza LAX	Culver City Bus Line
Days Inn - Airport Center	BONGHWAN KIM GENERAL MANAGER DEPARTMENT OF NEIGHBORHOOD EMPOWERMENT (DONE)
Dollar Rent-A-Car	Doubletree Club Hotel - LAX
Victor Globa FAA	Kurt Haukohl Runway Safety FAA
Dave Cushing FAA	Four Points Hotel Sheraton

Fox Rent-A-Car

Andrew Salas
Gabrielino Band of Mission Indians

Robert Dorame
Tribal Chair/Cultural Resources
Gabrielino Tongva Indians of California Tribal Council

Sam Dunlap
Gabrielino Tongva Nation

Linda Candelaria
Gabrielino Tongva Tribe

Anthony Morales
Chairperson
Gabrielino/Tongva San Gabriel Band of Mission Indians

Laurie Hughes
Gateway to LA Business Improvement District

Hertz Rent-A-Car

Holiday Inn - Los Angeles Int'l Airport

Howard Johnsons' International

Steve Martin
Chief Operating Officer
Los Angeles World Airports

Evelyn Quintanilla
Chief Airport Planner
Los Angeles World Airports

Deborah Ale Flint
Chief Executive Officer
Los Angeles World Airports

Pat Tomcheck
Sr. Transportation Engineer
Los Angeles World Airports

Cynthia Guidry
Deputy Executive Director
LAWA - Capital Programming and Planning

Diego Alvarez
Regional Transportation Coordinator
LAWA - Capital Programming and Planning

Lisa Trifiletti
Deputy Executive Director
LAWA - Capital Programming and Planning

Roger Johnson
Deputy Executive Director
LAWA - Facilities Planning Division

Mark Adams
Senior Management Analyst
LAWA - Governmental Affairs

Shabaka Heru
DIRECTOR OF LAX CBA & CONSTRUCTION PROGRAM
LAWA - LAX Coalition

Mary Grady
Director of Media & P.R.
LAWA - Public Relations Division

Arif Alikhan
LAWA Police Bureau

Patrick Gannon
LAWA Police Department

Harold Johnson
LAX Area Advisory Committee

Christina Davis
LAX Coastal Area Chamber of Commerce

Omar Pulido
LAX LIAISON
LAX Community Liason - Council District 11

Thomas Hall
Director of Planning and Development
Los Angeles Community College District

Martha Welborne
Chief Planning Officer
Metropolitan Transportation Authority

Renee Berlin
Managing Executive Officer - Countywide Planning
and Development
Metropolitan Transportation Authority

Motel 6

National Car Rental

Scott Singleton
Native American Heritage Comm.

Neighborhood Council of Westchester/Playa

Payless Rent A Car

Quality Hotel Los Angeles Airport

Radisson Hotel at LAX

Ramada Limited

Regency Plaza L.A. Airport Hotel

Teresa Rodgers
Los Angeles Region (4)
Regional Water Quality Control Board

Reliant Immediate Care Medical Center

Renaissance Hotel

Residence Inn by Marriott

Royal Century Hotel

Ryan Hall
SCAG

Jillian Baker
SCAQMD

Sheraton Gateway Hotel

E. Clement Shute
Counsel
Shute, Mihaly & Weinberger LLP

Osa Wolff
Counsel
Shute, Mihaly & Weinberger LLP

Gabriel Ross
Counsel
Shute, Mihaly & Weinberger LLP

Ian MacMillan
South Coast Air Quality Management District

Jonathan Nadler
Manager, Compliance and Performance Assessment
Southern California Area Governments

BRENDA MARTINEZ-SIDHOM
STAKEHOLDER LIAISON
STAKEHOLDER LIAISON OFFICE

Sharon Howell
State of California - Department of Conservation

Matthew Chirdon
Habitat Conservation Program
State of California - Department of Fish & Game
Region 5

Environmental Stewardship Section
State of California - Department of Parks and
Recreation

Guenther Moskat
CEQA Tracking Center
State of California - Department of Toxic Subst.
Control

Nadell Gayou
Senior Engineer
State of California - Department of Water Resources

Super 8 Motel - LAX

Margaret Sohagi
The Sohagi Law Group

Thrifty Rent A Car

Transportation Security Administration

Travelodge - LAX Century Blvd.

U.S. Customs & Border Protection (USCBP)

Karen Goebel
MLCP SOUTH TEAM
U.S. Department of the Interior Fish and Wildlife
Service

U.S. Immigration & Naturalization Service

CHARLES WALLIS
US COAST GUARD

Assistant Field Supervisor
US Department of Homeland Security

Blackburn Gregor
US Department of Homeland Security – TSA

USDA Plant Protection

Karen Dial
Westchester Town Center Business Improvement
District

Senior Librarian
Westchester-Loyola Village Branch Library

Westin Los Angeles Airport

Sign In: Public/Registro de Público



Scoping Meeting: Wednesday, June 22, 2016

ADD TO
Database

Name/Nombre	Organization/Organizacion	Address/Domicilio	Phone/Telefono	Email/Correo Electronico
ERIK SANDER	LA SANCIA city of.			
Rae Landoth	LAX Chamber			Rae goldinglamotho.com
Jim Withrow	Airport Influencer			
Ken Sheehan	Leat Elliott			
FAY DAVIS	INFLUENCED RES			RAYE@PTC.AE.COM
Rose Cote	LAWA			
Denny Fawcett	LAWA			
Dan Fawcett	LAWA			
Yuan Golan	FAA			
Roadmap	PCSI			

Sign In: Public/Registro de Público

Scoping Meeting: Wednesday, June 22, 2016

ADD TO
DATABASE

Name/Nombre	Organization/Organización	Address/Domicilio	Phone/Telefono	Email/Correo Electrónico
DALEON TEO	CLIENT	10704 SILVERMAKER AVE. SANTA FE SPRINGS, 90670	(562) 322-7260	daont@leviewit.com
Dambriano		3640 W. 111 th Place Eng	310 431-5517	
Suzanne Pacy	LAWA City Atty			
Don McLaurin	LAWA PR	Skyview 6th floor	424-646-5337	jdmlaurin@kuaq
TAKIS SAUREAS	LAWA			
Burton		807 N Bunker Hill LA CA 90012	323-501-7550	burtburush@gmail.com
CH Pei	Jetray	8429 S Syndwell Blvd #414 LA. CA	310 261 3024	ChPei@aol.com Yes
W Marshall	=	=	310 261 6005	WMarsh@aol.com 9298
ROBERT ACHERMAN	ARSAC	1504 ENGRASIA AVE TORRENS, CA 90501	310/927-2127	ROBERTACHERMAN@APL.COM
CEALG SCHWABER	PB	14008 Rock Ln Castroville, CA 92009	714 883-5858	Schwab@PBBworld.com



Scoping Meeting: Wednesday, June 22, 2016

Send ~~the~~ updates

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LAX Landside Access Modernization Program

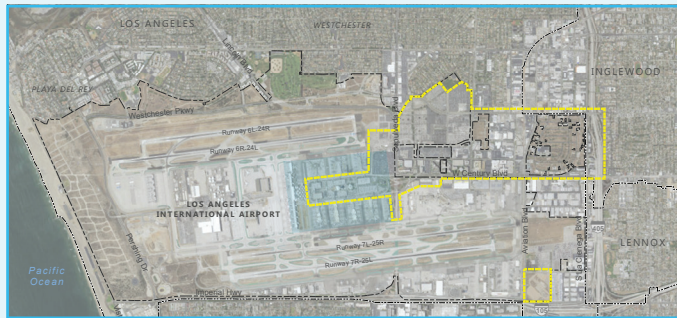
FREQUENTLY ASKED QUESTIONS

✈ 1. What is the LAX Landside Access Modernization Program?

The Los Angeles International Airport (LAX) Landside Access Modernization Program ("Project") is a new ground transportation system consisting of an Automated People Mover (APM) system, passenger walkways, Intermodal Transportation Facilities (ITF) with additional public parking facilities, a Consolidated Rental Car Facility (CONRAC), and roadway improvements. This system will connect LAX with Metro's planned Airport Metro Connector (AMC) transit station at 96th Street/Aviation Boulevard.

✈ 2. Where is the Project located?

Improvements would be constructed in an area bounded by the Tom Bradley International Terminal (TBIT) in the Central Terminal Area (CTA) of LAX on the west, Interstate 105 freeway on the south, Interstate 405 freeway on the east, and Westchester Parkway/West Arbor Vitae Street on the north.



✈ 3. What is the purpose of the Project and who will benefit?

The Project will improve the passenger experience and reduce traffic congestion in and around LAX. The Project is designed to provide the following benefits:

- Improve connectivity and mobility for passengers and employees
- Develop a flexible transportation system that provides time-certain options
- Improve access options by creating new, convenient locations for passenger pickup, drop-off, and parking outside of the CTA
- Provide a direct connection to public transit
- Provide easier and more efficient access to rental cars
- Relieve congestion in and out of the CTA and on the surrounding streets

✈ 4. How will the Project at LAX improve travel in and out of the airport?

In the future, the APM system will offer passengers a new way to bypass the existing roadway loop in the CTA and Sepulveda Boulevard, and access arrival/departure gates from convenient locations closer to the major freeways. Passengers will be transported to terminals more quickly and efficiently by boarding the APM system from the ITF, the CONRAC, or the Airport Metro Connector transit station.

The same process applies to passengers arriving at LAX. These passengers will be able to pick up their baggage, board the APM system and be transported directly to the ITFs, CONRAC, or Airport Metro Connector transit station to quickly reach transit options, rental cars, parked vehicles, or be picked up by private vehicles.

✈ 5. What is the anticipated schedule for delivery of these projects?

Los Angeles World Airports (LAWA) is committed to implementing the LAX Landside Access Modernization Program; however several important steps are required before construction can begin. This work includes environmental reviews, procurement, funding approvals, right-of-way acquisitions, final design, and engineering. Once these steps are completed, Phase 1 of the Project will take approximately 5-7 years to construct before the APM and CONRAC are fully operational. The Project construction plan is currently being developed.

✈ 6. Will the Project increase the number of flights or passengers at LAX?

No. The Project will not affect the total number of passengers at LAX, or the number or frequency of aircraft flights. It will provide state-of-the-art ground transportation facilities for existing passengers at LAX. Modifications to airfield facilities, including runways and aircraft gates, are not a part of the Project.

✈ 7. How will the CTA be used after the APM system is constructed?

The APM system will improve how the CTA functions today by giving passengers another option to access the airport while eliminating a substantial number of commercial shuttles that contribute to the existing congestion in the CTA. Passengers, employees, and other users of LAX will be able to utilize the APM for access to and from the CONRAC, ITF's, and Metro's transit station to the CTA.

✈ 8. Can we still park at the CTA or will we have to park at the ITF?

Parking will still be available within the CTA, but it is anticipated that parking at the ITFs will provide an economical alternative to parking within the CTA, and provide an easy, convenient, and time-efficient option for passengers, employees, and others using LAX.

✈ 9. What alignments are being considered for the Automated People Mover system?

LAWA has reviewed over 70 different configurations for the APM system, which include various alignments and station locations inside and outside of the CTA. A majority of the configurations considered for the APM alignment within the CTA were deemed infeasible due to existing constraints and unacceptable disruptions from construction associated with building an APM system while the airport is in operation.

A summary of this screening process, and a recommendation on a preferred alignment east of the CTA, was provided to the Board of Airport Commissioners and public on May 5, 2014; refinements to the APM alignments were presented on September 18, 2014. On December 18, 2014, LAWA staff recommended a preferred alignment (that included 3 stations within the CTA) to the Board of Airport Commissioners. These documents are available at <http://www.connectinglax.com/informed.html>.

✈ 10. Where will security screening, airline check-in and baggage check be located for those using the Automated People Mover system?

Security screening and baggage check will continue to be provided in the terminals, in the same way it operates today. LAWA anticipates providing self-service airline check-in, boarding passes, and flight information services at the ITFs and CONRAC, and is coordinating with Metro to evaluate possible services at the Airport Metro Connector transit station. LAWA is also studying the feasibility of baggage check-in at the APM stations.

✈ 11. What kind of impacts can be expected from construction of these projects?

The Draft Environmental Impact Report (EIR) and Draft EA will analyze and disclose potential effects from the Project, such as, among others, construction, traffic, air quality impacts, and noise level impacts. The report will also identify appropriate mitigation measures. It is anticipated that the Draft EIR will be released in the first or second quarter of 2016, and the Draft EA in the third quarter of 2017.

✈ 12. How will the Project provide quicker or better services than what currently exist at LAX?

The proposed Project will be designed to offer passengers, employees, and visitors new and convenient ways to access/depart the airport quickly. The use of a grade-separated APM system to transport passengers in and out of the CTA will be more reliable than the current system, since it won't be impacted by local traffic congestion, vehicular accidents, or other roadway obstacles. The new system will ensure a world-class traveling experience since the ITFs and CONRAC will provide modern and convenient access options for LAX passengers. In addition, the APM system will provide a direct connection to the proposed Airport Metro Connector transit station at 96th Street/Aviation Boulevard, to provide passengers, employees, and visitors with direct access to the regional public transportation system.

✈ 13. What are the environmental impacts of the Project and will LAWA prepare an Environmental Impact Report (EIR)?

LAWA released an Initial Study and Notice of Preparation (NOP) for the environmental review of the LAX Landside Access Modernization Program on February 5, 2015 and is in the process of preparing an EIR. LAWA will fully comply with the California Environmental Quality Act (CEQA), and identify all potential significant impacts along with appropriate mitigation measures. In early 2016, LAWA initiated a separate federal environmental process to assess the potential environmental effects of the LAX Landside Access Modernization Program in compliance with the National Environmental Policy Act (NEPA).

✈ 14. Will the facilities being built be designed for sustainability?

LAWA is committed to reducing its environmental footprint and promoting energy efficient design requirements, water conservation and water quality improvement projects, natural resource protection efforts, waste reduction and recycling, and numerous air quality emissions reduction policies and programs. LAWA will incorporate sustainability standards into the Project to increase energy efficiency, water efficiency and conservation, renewable energy opportunities, and construction waste reduction and recycling. The sustainability standards will focus on construction, operation, and maintenance of the facilities with the goal of reducing energy and natural resource impacts, as well as reducing emissions and impacts to surrounding communities. LAWA will also comply with the Los Angeles Green Building Code, which requires incorporation of many sustainable features into all City of Los Angeles buildings.

✈ 15. How can the public get involved?

The public has the opportunity to get involved at the beginning of, and throughout, the environmental review process.

In February 2015, LAWA held 2 public scoping meetings during the Notice of Preparation (NOP) comment period, to gather comments on the areas of environmental review that the Draft EIR will analyze as part of the California Environmental Quality Act (CEQA) process. During the environmental review process, there will be multiple opportunities to attend meetings and provide public comment on the Project; LAWA will continue to attend community meetings to provide Project updates and to solicit community input.

To be notified of public meetings and to get the latest Project information, subscribe to our email distribution list by visiting www.connectinglax.com.

✈ 16. Why is this project necessary for airport operations?

Modernization efforts at LAX are necessary as the needs of travelers and technology change, and also as improved airport safety measures are implemented. The Project is designed to make getting to your gate faster and more reliable. The Project will continue to make LAX a premier destination for visitors and residents alike by improving access, and reducing traffic and congestion at the airport and on surrounding roadways.

✈ 17. Who makes the final decision on the Project?

The Los Angeles City Council will make the final decision on the Project and EIR. The City Council will be taking actions to certify the EIR and to approve the Project. The Federal Aviation Administration (FAA) must also assess the potential environmental effects of the Project in compliance with the NEPA and approve the Project for the purposes of safety and operational efficiency.

✈ 18. Will there be local jobs created by the Project?

Projects at LAX generate jobs throughout the region, for planning and construction, and for ongoing operations. As part of the Community Benefits Agreement, LAWA has established a First Source Hiring Program to facilitate the employment of targeted individuals in the local community by airport employers.

✈ 19. Who will do the work and how will they be selected?

Contractors are selected by the Board of Airport Commissioners through a public bidding process which examines capabilities, experience and cost effectiveness.

✈ 20. Who can I contact for more information?

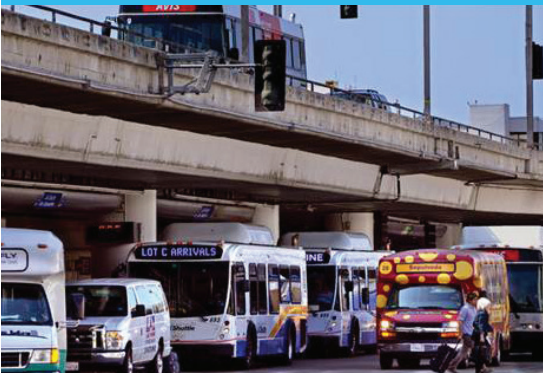
For more information, please visit the project website at www.connectinglax.com or email us at lax-lamp@lawa.org.

As a covered entity under Title II of the Americans with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability and, upon request, will provide reasonable accommodation to ensure equal access to its programs, services and activities. Alternative formats in large print, braille, audio, and other formats (if possible), will be provided upon request.

PROGRAM BENEFITS



Give passengers a fast and reliable way to get to their flights



Reduce vehicle emissions and improve air quality

Los Angeles World Airports,
1 World Way,
Los Angeles, CA 90045

Phone: 800.919.3766

Project Website:
www.connectinglax.com



CONNECTINGLAX

ANTICIPATED PROCESS AND SCHEDULE

The LAX Landside Access Modernization Program requires federal and local approval, and environmental clearance as dictated by the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA).

CEQA

- February 5, 2015 **Notice of Preparation (NOP) and Initial Study (IS)**
- Third Quarter 2016 **Draft Environmental Impact Report (EIR) Released**
- First Quarter 2016 **Final EIR Released**
- First Quarter 2016 **Certification of EIR**

NEPA

- First Quarter 2016 **Initiation of NEPA process**
- First Quarter 2017 **Draft Environmental Assessment (EA) Released**
- Third Quarter 2017 **Final EA Released**

Construction

- Third Quarter 2017 **Estimated Construction Start**
- 2023 **Estimated Completion of Phase 1 (including APM & CONRAC)**

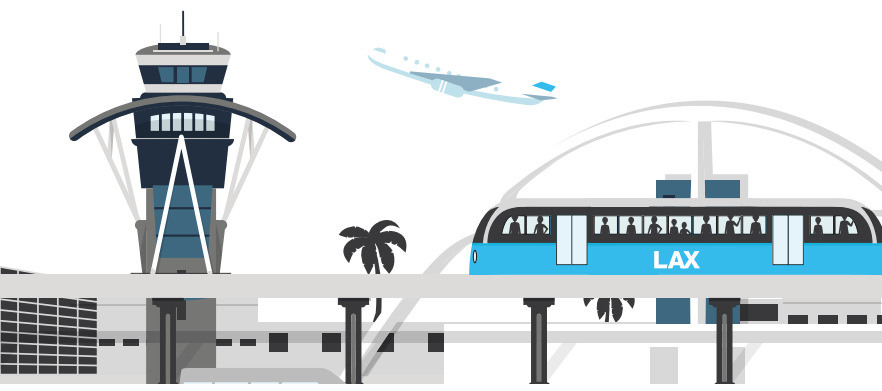
GET INVOLVED

LAWA has initiated a comprehensive public involvement effort aimed to communicate information about the Project and provide opportunities for community input during the environmental review process. To get involved:

- Participate in public meetings.** Notices of upcoming meetings will be posted at www.connectinglax.com.
- Provide written comments.** You are encouraged to provide public comments on environmental documents when they become available for public review. Project documents will be posted on the Project website at www.connectinglax.com, with instructions on how to submit comments.
- Request a presentation.** LAWA is available to present at your neighborhood association or civic group. To schedule a presentation, contact (800) 919-3766 or lax-lamp@lawa.org.
- Stay informed.** Get the latest updates by subscribing to the Project mailing list at www.connectinglax.com.

As a covered entity under Title II of the Americans with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability and, upon request, will provide reasonable accommodation to ensure equal access to its programs, services and activities. Alternative formats in large print, braille, audio, and other formats (if possible), will be provided upon request.

LAX Landside Access Modernization Program FACT SHEET



BRIEF DESCRIPTION OF LAX

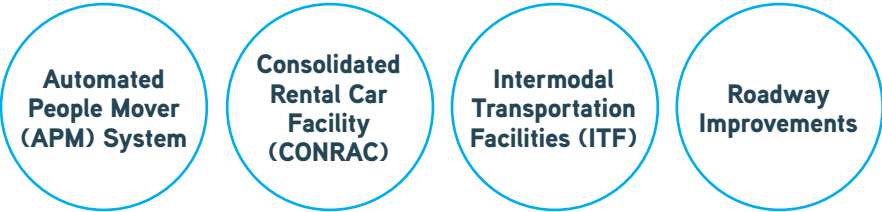
The Los Angeles International Airport (LAX) is the 3rd busiest airport in the United States and is the largest airport in California. In 2014, 70.7 million passengers passed through LAX, with an estimated 50% of existing passengers traveling to and from LAX by car. Congestion in the Central Terminal Area (CTA) is especially heavy during peak periods.

Los Angeles World Airports (LAWA) is in the midst of a multi-billion dollar modernization program at LAX. As part of this effort, LAWA is proposing to implement the LAX Landside Access Modernization Program (the "Project") to improve the LAX passenger experience, relieve congestion, and enhance LAX's status as a world-class airport.

THE LAX LANDSIDE ACCESS MODERNIZATION PROGRAM

LAX will provide an array of new and convenient transportation options outside of the CTA, including dedicated areas for passenger pick-up/drop-off and parking facilities with direct access to the CTA, car rental opportunities located in one centralized location near the 405 freeway, and a convenient connection to the regional Metro rail and bus transit system.

The Project consists of 4 primary components:



At the centerpiece of the Project is the Automated People Mover (APM) system, which would connect passengers to the airline terminals, a state-of-the-art Consolidated Rent-A-Car Facility (CONRAC), new passenger pick-up and drop-off locations (Intermodal Transportation Facilities) with airport parking facilities, Metro's regional transit system and roadway improvements.

PROGRAM BENEFITS



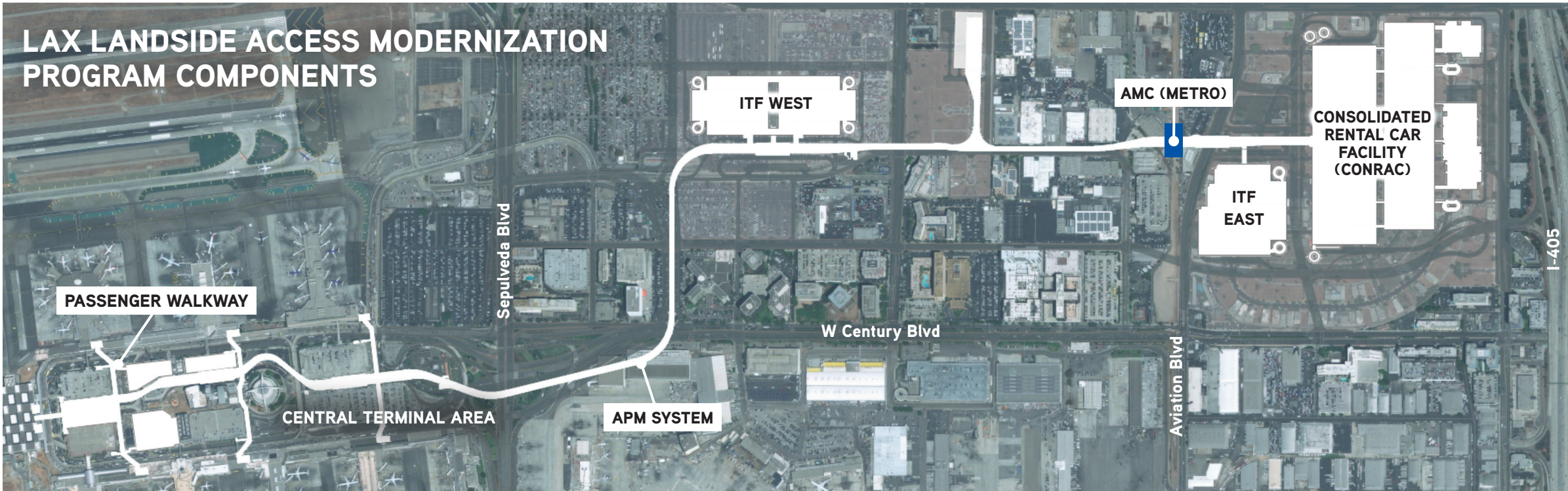
Relieve traffic congestion within the Central Terminal Area and the surrounding street network



Create new convenient locations for passenger pick-up, drop-off, and parking outside of the Central Terminal Area



CONNECTINGLAX



CTA Passenger Walkway Interior Concept



West ITF Curbside Concept

✈ Automated People Mover System

The Automated People Mover (APM) would be an above ground airport transport system connecting LAX passengers with the airline terminals, a new centralized rental car facility, new pick-up and drop-off locations with airport parking facilities, and Metro's regional transit system. The primary APM features include:

- Above ground system, 2-1/4 miles in length
- 6 APM stations connecting passengers to key LAX locations
- Free, convenient, & reliable 24-hour access to the CTA
- 2-3 minute wait times at each APM station
- Ability to transport up to 6,000 passengers per hour

✈ Consolidated Rental Car Facility

Currently, the rental car agencies are located in approximately 23 different properties in the LAX vicinity within two different jurisdictions. The Consolidated Rental Car Facility (CONRAC) would be designed to accommodate rental car agencies serving LAX at one conveniently centralized location. Primary CONRAC features include:

- Access to a variety of centrally located rental car options
- Direct access to airline terminals & regional freeway system
- Reduced congestion by eliminating rental car shuttles currently operating in the CTA & on local roadways

✈ Intermodal Transportation Facilities

The Intermodal Transportation Facilities (ITF) would offer facilities close to the 405 freeway and Sepulveda Boulevard to allow for pick-up and drop-off of passengers, check-in kiosks, parking, connections to shuttles and transit, and direct access to the Central Terminal Area via the APM system. ITF features include:

- Direct access to the airline terminals
- Flight check-in, boarding passes, information kiosks, & other amenities
- Access to shuttles & other transit services
- Convenient pick-up and drop-off, & public parking

✈ Roadway Improvements

Proposed roadway improvements are designed to reduce congestion and vehicle emissions, and enable passengers to access LAX more efficiently and directly without the need to enter the Central Terminal Area.

Roadway improvement features include:

- Improved access in/out of the CONRAC, ITFs, CTA & to the regional freeway system
- Bicycle & pedestrian improvements
- Additional street lanes & new freeway ramps

✈ Metro Transit Connection

The APM would allow for a direct connection to Metro's regional rail and bus system, including the Airport Metro Connector transit station located at 96th Street/Aviation Boulevard.

The Airport Metro Connector transit station project is being planned by Metro as an independent project, separate from the LAX Landside Access Modernization Program.

SUSTAINABLE CONSTRUCTION AND OPERATIONS

LAWA is committed to reducing its environmental footprint and promoting energy efficient design requirements, water conservation and water quality improvement projects, natural resource protection efforts, waste reduction and recycling, and numerous air quality emissions reduction policies and programs. LAWA is developing design guidelines for the LAX Landside Access Modernization Program that will unify the various elements of the Project while integrating key architectural elements of the airport's iconic 1960s Theme Building, the 2000 LAX Gateway light pylons, and the nine airline terminals. LAWA will transform the Century corridor area by creating new airport facilities outside of the LAX Central Terminal and extending the airport campus vision to revitalize the area and offer a world-class welcome to travelers and visitors alike. As part of these guidelines, LAWA will also incorporate sustainability standards into the Project to increase energy efficiency, water efficiency and conservation, renewable energy opportunities, and construction waste reduction and recycling. The sustainability standards will focus on construction, operation, and maintenance of the facilities with the goal of reducing energy and natural resource impacts, as well as reducing emissions and impacts to surrounding communities.

GOALS OF THE LAX LANDSIDE ACCESS MODERNIZATION PROGRAM

- Improve connectivity and mobility for passengers and employees
- Develop a flexible transportation system that provides time-certain options
- Improve access options by creating new, convenient locations for passenger pickup, drop-off, and parking outside of the CTA
- Provide a direct connection to public transit
- Provide easier and more efficient access to rental cars
- Relieve congestion in and out of the CTA and on the surrounding streets

Welcome

SCOPING MEETING

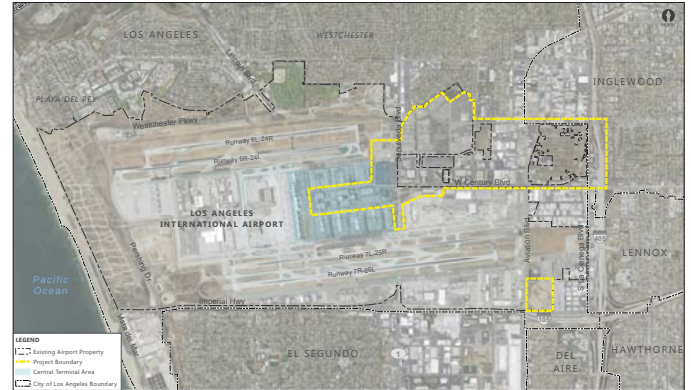
LAX Landside Access Modernization Program

Wednesday, June 22, 2016

5:00 p.m. to 8:00 p.m.

Los Angeles Fire Station #5
8900 S. Emerson Avenue
Los Angeles, CA 90045

Project Location



What is a Scoping Meeting?

- A scoping meeting provides an opportunity for public and agency comment concerning the scope of issues to be addressed in the proposed LAX Landside Access Modernization Program Environmental Assessment (EA), including:
 - purpose and need for the proposed project
 - range of alternatives to be considered
 - significant environmental issues to be addressed

National Environmental Policy Act (NEPA)

- Requires federal agencies to disclose a clear description of potential environmental effects resulting from proposed federal actions and reasonable alternatives to those actions
- Provides information to decision makers to determine whether a proposed project would cause significant adverse environmental impacts
- For the proposed Landside Access Modernization Program EA, the Federal Aviation Administration (FAA) must review the potential environmental effects of the proposed project before it can be approved



Major Project Components

Automated People Mover (APM) System

- Six APM stations, 2.25 miles connecting CTA with new CONRAC, ITF, parking and Metro facilities
- Elevated dual-lane guideway
- Passenger walkways to terminals, parking garages, and ground transportation facilities
- Short wait times (2-3 minutes), 24 hours a day

Consolidated Rental Car Facility (CONRAC)

- Rental car options in centralized location
- Access to major freeways
- Customer service building, parking areas, fueling, and car wash areas

Roadway Improvements

- Access to major freeways and streets
- Enhance roadway network
- Minimize impacts to neighborhood streets

Intermodal Transportation Facilities (ITF)

- Convenient options to avoid traffic bottlenecks in CTA and on Sepulveda Boulevard
- Comfortable parking and waiting areas with concession opportunities

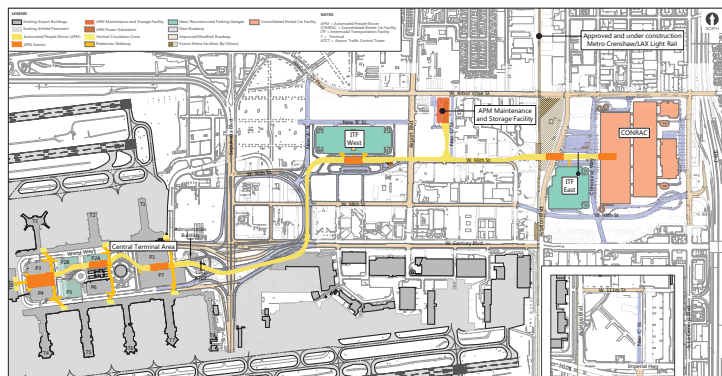
West ITF

- Direct connection to terminals via APM
- Drop off and pick up passengers
- Connections for airport shuttles
- Public and employee parking
- Concessions and flight check-in

East ITF

- Drop off and pick up passengers
- Connection with Metro 96th Street/Aviation Boulevard transit station
- Connections to commercial transit
- Public parking
- Concessions and flight check-in

Project Components



Purpose and Need

Purpose of the Project

- To improve connectivity and mobility for passengers and employees by developing a transportation system that provides time-certain travel options
- To provide easier and more efficient access to rental cars
- To relieve congestion in the CTA and on the surrounding streets

Need for the Project

- Passengers and employees lack convenient access options including a direct connection to public transit
- Congestion in the CTA causes delays affecting local streets and arterials including I-105
- LAX does not have a consolidated rental car facility that provides a convenient and centralized location for airport passengers to rent and return cars

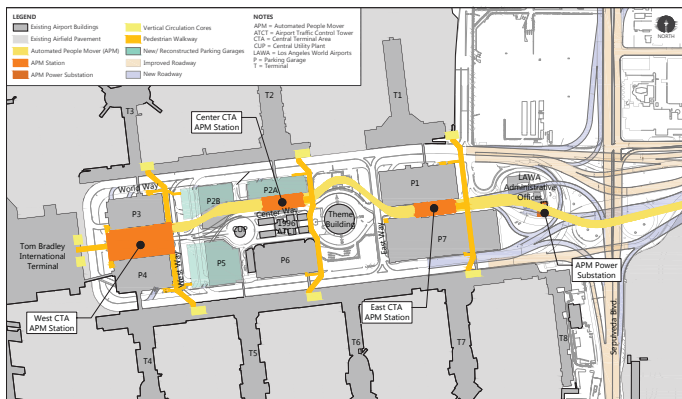
Alternatives Considered

- No Action
- A range of alignments and configurations for:
 - Automated People Mover
 - Consolidated Rental Car Facility
 - Roadway Improvements
- Proposed LAX Landside Access Modernization Program

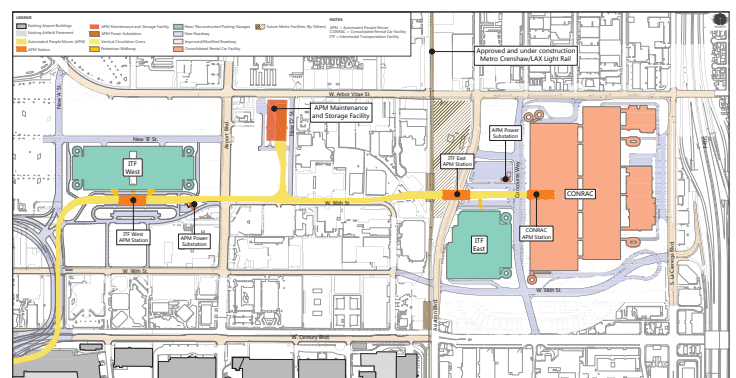
Environmental Impact Categories

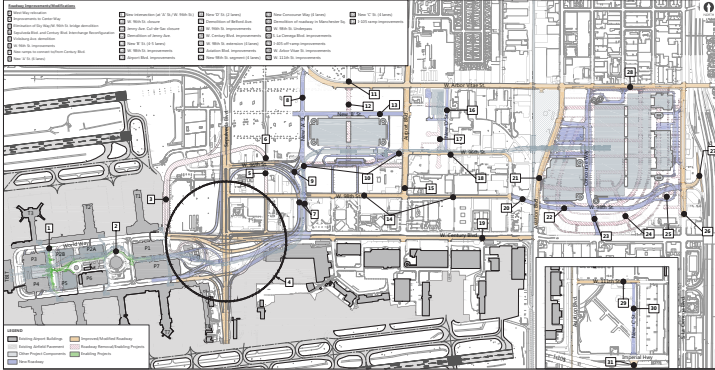
- Air Quality
 - Biological Resources (fish, wildlife, & plants)
 - Climate
 - Coastal Resources
 - Department of Transportation Act Section 4(f)
 - Farmlands
 - Hazardous Materials, Solid Waste, and Pollution Prevention
 - Historical, Architectural, Archaeological, and Cultural Resources
 - Land Use
 - Natural Resources and Energy Supply
 - Noise and Compatible Land Use
 - Socioeconomic Impacts, Environmental Justice, Children's Health and Safety Risks
 - Visual Effects
 - Water Resources
 - Cumulative Impacts
- Resource categories identified in bold text will be studied in detail in the Draft EA*

Automated People Mover within the Central Terminal Area



Automated People Mover, Intermodal Transportation Facilities and Consolidated Rental Car Facility





- Comments can be handwritten on comment forms and submitted at this Scoping Meeting
- Comments can be mailed to:
Ms. Evelyn Quintanilla
Chief of Airport Planning
Los Angeles World Airports
1 World Way, Room 218
Los Angeles, CA 90045
Phone: (800) 919-3766
- For additional information and/or to submit comments, visit www.connectinglax.com
- **Comments must be received by 5:00 pm Monday, July 11, 2016**

Attachment 2

Scoping Comments



From: Henry Wong [<mailto:HWONG@dpw.lacounty.gov>]
Sent: Thursday, June 30, 2016 1:40 PM
To: QUINTANILLA, EVELYN
Cc: Susana Graether; Anthony Nyivih; Art Vander Vis; Matthew Dubiel; Michele Chimienti; Sam Chinn; Jeff Pletyak; Andrew Ngumba; Terri Grant; Joshua Svensson; Armond Ghazarian
Subject: Correspondence Mail - Los Angeles World Airports - 06/15/16
Importance: High

Good afternoon Ms. Quintanilla,

The following is Public Works' response to the attachment document:

"The County of Los Angeles Department of Public Works does not have any comments on the attached document. However, we request that the Environmental Assessment be provided to us once released so that the project can be analyzed for potential impacts to Unincorporated County communities, infrastructures, and Los Angeles County Flood Control District facilities in the vicinity of the project.

If you have any questions please contact Mr. Matthew Dubiel of Public Works' Land Development Division at (626) 458-4921."

Henry Wong, M.S., P.E., T.E.
Civil Engineer, Subdivision Review
Land Development Division
Department of Public Works
County of Los Angeles
hwong@dpw.lacounty.gov<<mailto:hwong@dpw.lacounty.gov>>
(626) 458-4961



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World Airports

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Dr. Cynthia A. Telles

Deborah Flint
Chief Executive Officer

William Fujioka
County of Los Angeles
648 Kenneth Hahn Hall Of Administration
500 West Temple St.
Los Angeles, CA 90012-2713

Subject: Environmental Assessment for Los Angeles International Airport (LAX),
Landside Access Modernization Program

Dear Mr. Fujioka:

LAWA proposes to implement the LAX Landside Access Modernization Program to continue to transform LAX into a world-class airport by improving connectivity and mobility for passengers and employees, relieving traffic congestion within the Central Terminal Area (CTA) and on the surrounding street network, improving the travel experience for passengers, and providing connection to the regional Los Angeles County Metropolitan Transportation Agency (MTA or Metro) rail system. The EA is being prepared to comply with Federal Aviation Administration (FAA) requirements under the National Environmental Policy Act (NEPA).

The Proposed Action includes the following components as shown on **Exhibit 1**:

Table 1: LAX Landside Access Modernization Program Project Elements

PROJECT ELEMENT	GENERAL DESCRIPTION
APM System	A 2.25-mile Automated People Mover (APM) system with six APM stations connecting the CTA to new proposed ground transportation facilities; passenger walkway systems connecting the APM stations to passenger terminals, parking garages, and ground transportation facilities; modifications to existing passenger terminals and parking garages to support the APM walkway system connections, including vertical circulation cores to the arrival, departure, and concourse levels;
APM Maintenance and Storage Facility	The APM Maintenance and Storage Facility where the APM train cars would be cleaned, repaired, and washed; it would also be the operating center of the APM system.
APM Power Substations	Three traction power substations (TPSS) would provide power to the APM guideway.
ITF West	The ITF West facility would include an APM station, two new adjacent and interconnected public parking structures (one with four elevated parking decks and one with five elevated parking decks), a commercial vehicle curb, and internal circulation roads.
ITF East	The ITF East facility would include an APM station, an adjacent and interconnected public parking structure, a commercial vehicle curb, and internal circulation roads
CONRAC Facility	The CONRAC would provide a centralized location for car rental agencies serving LAX passengers. It would include a customer service building, APM station, ready/return garage, idle storage garage,



**PROJECT
ELEMENT****GENERAL DESCRIPTION**

and quick turnaround areas.

Roadway Improvements

New 'A' St	New 2,400-foot roadway between Westchester Parkway and Century Blvd
New 'B' St	New 1,700-foot roadway between new 'A' St and Airport Blvd
New 'C' St	New 1,200-foot roadway between Imperial Hwy and W. 111 th St (I-105 ramp improvements)
New 'D' St	New 1,100-foot roadway between W. 96 th St and W. Arbor Vitae St
New 98 th St	New 3,400-foot roadway between Bellanca Ave and La Cienega Blvd
New Concourse Way	New 500-foot roadway between Century Blvd and new 98 th St
Sepulveda Blvd	Sepulveda Tunnel to W. 96 th St – widen to up to 4 lanes in each direction. Improvements include new ramps to Sky Way to/from World Way, to/from Century Boulevard, to/from new "A" St.
Airport Blvd	W. 98 th St to West Arbor Vitae St – widen to provide up to 3 lanes in each direction
West Arbor Vitae St	Airport Blvd to La Cienega Blvd – widen to provide up to 3 lanes in each direction
West Arbor Vitae St Overcrossing	La Cienega Blvd to City Limits – widen to provide up to 3 lanes in east direction and 2 lanes in west direction
West 96 th St	Airport Blvd to Bellanca Ave – widen by 15 feet
West 98 th St	New 'A' St to Bellanca Blvd – widen to provide up to 2 lanes in each direction
Century Blvd	New 'A' St. to Aviation Blvd – widen to provide up to additional lane in east direction
Aviation Blvd	Century Blvd to West Arbor Vitae St – widen to provide up to 3 lanes in each direction
La Cienega Blvd	Century Blvd to W. Arbor Vitae St – widen to provide up to 3 lanes in each direction
I-405 ramps at La Cienega Boulevard	Widen to provide 2 additional lanes at the La Cienega Blvd intersection
Parking Garage P2A	Existing parking garage would be demolished and a replacement garage would be constructed in the CTA.
Parking Garage P2B	Existing parking garage would be demolished and a replacement garage would be constructed in the CTA.
Parking Garage P5	Existing parking garage would be demolished and a replacement garage would be constructed in the CTA.
Clifton Moore Administration Building (1 World Way)	Building would be demolished and LAWA administrative offices would be relocated to the existing LAWA-owned Skyview Center located at 6033 and 6053 W. Century Boulevard.
Bob Hope Hollywood USO	Building would be demolished. Existing uses would be accommodated elsewhere on-Airport property.
Restaurant Building	Building would be demolished.
Metro Bus Terminal	Transportation center would be demolished and relocated to the Metro Airport Metro Connector (AMC) station to be constructed adjacent to the ITF East.
Delta Hangar Complex	Buildings would be demolished. Replacement facilities would be constructed on-Airport property.
Reliant Medical Center	Building would be demolished. Existing uses would be accommodated elsewhere on-Airport property.

Purpose and Need for Project

The purpose of the proposed project is to improve connectivity and mobility for passengers and employees by developing a flexible transportation system that provides time-certain travel options; improves access options by creating new convenient locations for passenger pick-up, drop-off, and parking outside of the Central Terminal Area, including a direct connection to public transit; provides easier and more efficient access to rental cars; and relieves congestion in the CTA and on the surrounding streets.

The need for the project is described in the following paragraphs. Access to the airport is restricted to a single entrance at the intersection of Sepulveda Boulevard and West Century Boulevard, which all passengers, employees, and commercial drivers transporting those passengers must utilize in order to access the passenger terminals. During peak travel periods, this causes traffic congestion within the Central Terminal Area that frequently spills out onto the surrounding street network, causing delays and gridlock affecting local arterials including Interstate 105.

Passengers lack convenient access options that provide a time-certain arrival or an efficient exit, which negatively affects the passenger experience and increases traffic congestion. Passengers who choose to park remotely or stay in local hotels, or take public transit to LAX, must take a bus, shuttle, taxi or similar service into or out of the CTA to the appropriate terminal. The hotel, off-airport parking, and rental car shuttles circle through the airport roadways in order to drop-off then pick-up passengers, adding to the congestion along World Way. LAX also lacks a direct connection to the Los Angeles County Metropolitan Transit Agency (Metro) commuter train system. Currently passengers and employees desiring to take public transportation to LAX must either take buses the entire way, or take a Metro commuter train line to Imperial and Aviation and then transfer to buses to get to the airport.

Unlike most major U.S. airports, LAX does not have a consolidated rental car facility that provides a convenient and centralized location for airport passengers to rent and return cars. Currently, there are over 20 properties located north and east of the airport that are used by the various rental car companies for their individual operational needs. As a result, there are over 50 directional signs scattered around the airport directing rental car customers to the various rental car lots, which leads to driver confusion and challenging wayfinding, causing traffic and congestion on the surrounding streets. Rental car shuttles add over 3,200 shuttle trips a day on airport and surrounding streets contributing to traffic congestion, vehicle miles travelled, and air emissions.

Alternatives

The alternatives which will be discussed in the EA include a range of alternative APM alignments, CONRAC configurations, and roadway improvements; the Proposed Action; and the No Action Alternative. The EA will document the methodology used to determine the alternatives to be considered as well as the screening process used to conclude which alternatives would feasibly satisfy the purpose of and need for the proposed project.

Environmental Consequences

The potential environmental impacts of the proposed project will be analyzed and documented in the EA. Federal guidance for the environmental process encourages public involvement to assist the lead agency in identifying potential issues to be analyzed in the EA. Known potential environmental issues that will be assessed include:

- Air Quality and Climate
- Hazardous Materials, Solid Waste, and Pollution Prevention
- Historical, Architectural, Archaeological, and Cultural Resources
- Land Use
- Natural Resources and Energy Supply
- Noise and Noise-Compatible Land Use
- Socioeconomics, Environmental Justice, and Children's Environmental Health and Safety
Risks including traffic
- Visual Effects
- Water Resources
- Cumulative Impacts

EA Process and Schedule

LAWA is in the process of developing the EA, and plans to release the draft EA for public and agency review in the first quarter of 2017. The EA will document the project's purpose and need, the Proposed Action and alternatives to the Proposed Action, the affected environment, and environmental consequences. If you or someone in your organization has any specific concerns with the project, or recommend that particular environmental impacts, alternatives, purpose and need considerations or other issue(s) should be addressed in the EA, we would appreciate written correspondence by July 11, 2016 to discuss your concerns. Please address all comments to:

Ms. Evelyn Quintanilla
Chief of Airport Planning
Los Angeles World Airports
1 World Way, Room 218
Los Angeles, CA 90045
Phone: (800) 919-3766

A public information workshop/scoping meeting on the initiation of the EA will be held on Wednesday, June 22, 2016 from 5:00 PM to 8:00 PM at the Los Angeles Fire Station #5, 8900 S. Emerson Avenue, Los Angeles, CA 90045

The meeting will provide an opportunity for public comment concerning the Proposed Action, purpose and need for the Proposed Action, alternatives to the Proposed Action, and potential environmental effects of the LAX Landside Access Modernization Program to be analyzed in the Draft EA. The scoping meeting will be held in an informal open house format. Representatives from LAWA and study team will be available to talk with citizens about the environmental review. Graphics will be on display so citizens can review project details and attendees will have an opportunity to provide written comments on the scope and content of the Draft EA.

Sincerely,

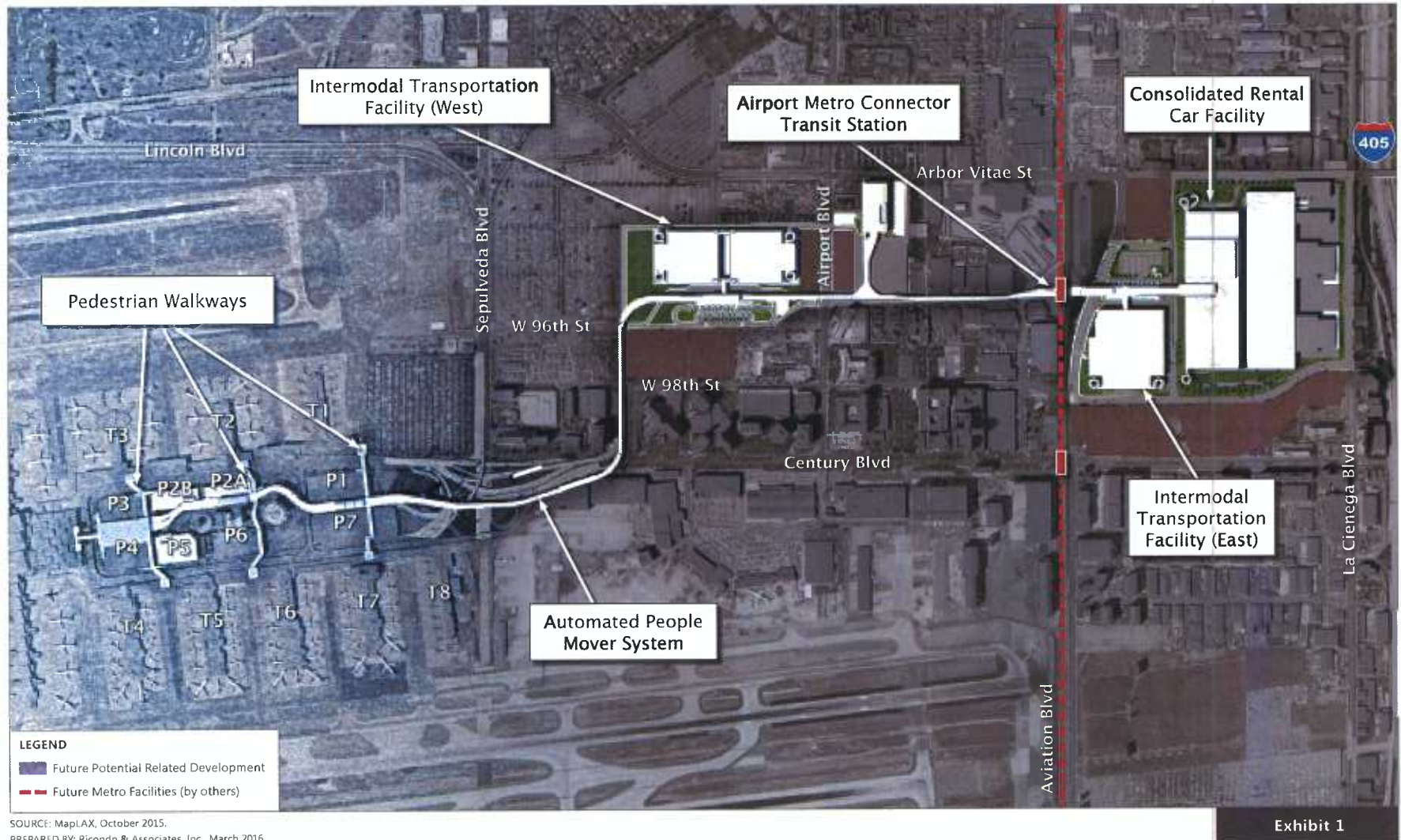


Evelyn Quintanilla
Chief of Airport Planning

Attachments (1): Exhibit 1: LAX Landside Access Modernization Program Overview

EQ:bms

(Preliminary Draft for Discussion Purposes Only)



SOURCE: MapLAX, October 2015.
PREPARED BY: Ricondo & Associates, Inc., March 2016.

LAX Landside Access Modernization Program Overview



LAX

Los Angeles World Airports

EPG, Admin. East
One World Way, Suite 218
Los Angeles, CA 90045

Hall
Room 713

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CA 900
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ZIP 90045
011E12650095

1 World Way P.O. Box 92214
Los Angeles California 90045-0214

90012319673



Los Angeles International Airport Area Advisory Committee

Committee Members: Residents of El Segundo, Inglewood, Lennox, Hawthorne, Culver City, Marina del Rey and Westchester/Playa del Rey

July 10, 2016

RECEIVED JUL 07 2016

Ms. Evelyn Quintanilla, Chief of Airport Planning
Los Angeles World Airports
1 World Way, Room 218
Los Angeles, CA 90045

Dear Ms. Quintanilla:

Re: Environmental Assessment for the Landside Access Modernization Program (LAMP)

We, the Los Angeles International Airport Area Advisory Committee (LAXAAC), a committee of residents of the communities surrounding Los Angeles International Airport (LAX), are herein providing comments in connection with the LAMP Environmental Assessment.

Our Committee applauds LAWA for this effort, as we are generally very pleased about the plans for the LAMP. We expect it will reduce and improve traffic flow and wait times in and out of the Central Terminal horseshoe. Our Committee is concerned, however, with the longer term effects of this project on local neighborhoods, especially with respect to traffic and parking considerations. Our comments are based on a review of the LAMP Environmental Assessment Public Scoping document as well as observations at the Public Scoping Meeting and earlier presentations on the subject.

Traffic

The latest LAWA planning document includes annual passenger (MAP) numbers above the 78.9 MAP evaluated as part of the LAX Master Plan. The LAMP plan also incorporates higher MAP numbers yet it appears the EIR will not evaluate the environmental impacts of or mitigation for this significant increase in aviation activity, even though the growth would be facilitated by LAMP. We would hope the EIR will not simply assume numbers in excess of 78.9 MAP, as such would be in violation of prior LAWA commitments for the airport, but to the extent LAMP will facilitate additional growth, there must be a discussion of how the impacts of that growth will be mitigated.

We are concerned that traffic from the north and south, *i.e.*, on Lincoln Blvd., Sepulveda Blvd., Aviation and the 405 Freeway, to the LAMP will create traffic jams for southbound traffic on Lincoln Blvd., northbound traffic on Aviation Blvd. and westbound traffic on Century Blvd.. Therefore, the EIR should discuss the routing of traffic headed for the LAMP onto dedicated side streets which feed directly into the LAMP. Even with such mitigation, Lincoln, Aviation, Sepulveda, and Century Boulevards, as well as 80th and 83rd Streets are likely to see greatly increased congestion, so we recommend that the EIR discuss the need for staggered lighting and other mitigation measures on those thoroughfares. We also suggest that the EIR discuss mitigation measures for the already busy intersections of Sepulveda with 89th Street and S. La Tijera Blvd.

While LAMP includes significant improvements for traffic coming from north and east of the airport, it will do virtually nothing for traffic coming from south of the airport. In particular, the connection to the new facilities from northbound I-405 is essentially nonexistent. Thus, many northbound travelers to LAX will divert to the streets of El Segundo.

The improvements that LAX is proposing for northbound traffic are modest, at best. Our Committee recommends that LAWA substantially improve the connections between the NB-405 and the Consolidated Rental Car facility (CONRAC) and the two Intermodal Transportation Facilities (ITFs). In addition, the project will likely add traffic to South Bay and Westchester city streets, especially on Sepulveda and Aviation Boulevards. Our Committee recommends that more South Bay intersections be studied and potentially improved as part of the project. In Westchester, 80th and 83rd Streets should be studied, as they already are used as alternates for Manchester Avenue. In El Segundo, we recommend that all northbound Sepulveda and Aviation Blvd. intersections north of Rosecrans Blvd. be studied as well as the West 105 merge with northbound Sepulveda Blvd..

Parking

Parking in and around the airport is expensive and has led to a situation where LAX travelers are parking on surrounding city streets and then using Uber and similar services to travel to the Central Terminal Area. LAMP not only does nothing about this situation, it could exacerbate it. Our Committee recommends that the EIR address this issue and make parking a major consideration. As it is a primary goal to steer more passengers away from the Central Terminal horseshoe, thereby reducing the volume of traffic at the terminals, ample and convenient parking for those who need it should be a primary consideration. The EIR should discuss designing the LAMP to accommodate the traffic flow and short-term parking for those who wish to drive in and walk with their relatives or friends who will be taking the APM.

Very truly yours,



William Cumming, LAXAAC Chair
Los Angeles International Airport Area Advisory Committee (LAXAAC)
1 World Way, P.O. Box 92216
Los Angeles, CA 90009-2216

cc:

Board of Airport Commissioners
Los Angeles Mayor Eric Garcetti
Culver City Mayor Meghan Sahli-Wells
Inglewood Mayor James T. Butts, Jr.
El Segundo Mayor Suzanne Fuentes
Hawthorne Mayor Alex Vargas
Los Angeles City Councilman Mike Bonin
Supervisor Don Knabe
Supervisor Mark Ridley-Thomas
Executive Director Deborah Flint



CYNTHIA A. HARDING, M.P.H.
Interim Director

JEFFREY D. GUNZENHAUSER, M.D., M.P.H.
Interim Health Officer

Policies for Livable, Active Communities and Environments
Jean Armbruster, M.A.
Director

695 South Vermont Avenue, South Tower, Suite 1400
Los Angeles, California 90005
TEL (213) 351-1907 • FAX (213) 637-4879

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July 11, 2016

Ms. Evelyn Quintanilla
Chief of Airport Planning
Los Angeles World Airports
1 World Way, Room 218
Los Angeles, CA 90045
Phone: (800) 919-3766

RE: Environmental Assessment for Los Angeles International World Airport Landside Access Modernization Program

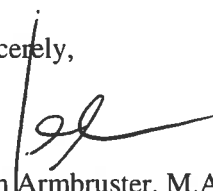
Dear Ms. Quintana,

Thank you for this opportunity to comment on the Environmental Assessment for Los Angeles International World Airport Landside Access Modernization Program. The Los Angeles County Department of Public Health would like to provide the following comments.

Airport modernization efforts should ensure that people arriving at the airport on foot, by bicycle, or via transit can access the airport safely and comfortably. High quality bikeways and sidewalks should be provided, along with intersection improvements that will reduce the potential for traffic injury and death. LAWA should work with Metro to ensure high quality first and last mile connectivity from the new Crenshaw station and existing bus stops to the airport and the proposed facilities. In addition, bicycle parking at the airport should be increased and modernized and secure bicycle parking should be provided for employees and visitors at convenient locations throughout the airport.

Additionally, efforts should be made to ensure that residents in the surrounding area will not be impacted by the construction debris, noise, and traffic congestion. Because local medical providers may be impacted during construction, efforts should be made to ensure that people have access to health care while the transition takes place.

Sincerely,


Jean Armbruster, M.A.
Director, PLACE Program

JA:al

c: Susana Villacres Graether

July 11, 2016

Via Email and FedEx

Evelyn Quintanilla
Chief of Airport Planning
Los Angeles World Airports
1 World Way, Room 218
Los Angeles, California 90045

Re: Environmental Assessment Scoping Document for LAX Landside
Access Modernization Program

Dear Ms. Quintanilla:

On behalf of the City of El Segundo ("City"), thank you for the opportunity to review the Environmental Assessment Scoping Document ("SD") released on June 10, 2016, for the Landside Access Modernization Program ("Project") and Potential Future Related Development ("Future Development"). The City expects to be actively involved in the planning process and looks forward to follow-up discussions and close coordination going forward.

As Los Angeles World Airports ("LAWA") is aware, the City has a number of longstanding concerns related to Los Angeles International Airport ("LAX"), particularly around noise and traffic impacts originating on the southern airfield and/or directed toward El Segundo. The City appreciates that LAWA has thus far been receptive to discussion regarding the environmental analysis of the Project and Future Development, and hopes that this openness will continue in the future. In order to fully address the City's concerns, however, the analysis prepared to comply with the National Environmental Policy Act ("NEPA") must provide a robust analysis of the complete scope of the Project's environmental effects, including the growth inducing effects of removing existing ground access constraints. *See Sierra Club v. Bosworth*, 510 F.3d 1016, 1026 (9th Cir. 2007) ("[T]he fundamental purpose of NEPA . . . is to ensure that federal agencies take a 'hard look' at the environmental consequences of their actions . . ."). To that end, this letter explains the City's concerns about the Project and Future Development, and identifies specific effects that LAWA should carefully evaluate as part

of an informative and comprehensive NEPA document, which we anticipate should be an Environmental Impact Statement (“EIS”). This letter incorporates by reference the City’s comments on the Notice of Preparation (“NOP”) prepared pursuant to the California Environmental Quality Act (“CEQA”), attached as Exhibit A, and all attachments thereto.

I. The Project Will Induce Growth in Airport Passenger Volume, Resulting in Effects that the EA Must Analyze.

A. The Project Would Remove Existing Ground Access Constraints and Allow LAX to Process a Higher Volume of Passengers Than Previous Planning Documents Considered.

On May 5, 2016, the City filed suit against the Southern California Association of Governments (“SCAG”), challenging the adequacy of its Programmatic Environmental Impact Report (“PEIR”) for the 2016-2040 Regional Transportation Plan/Sustainable Communities Strategy (“RTP/SCS”). One of the critical defects in the PEIR is its unsupported assumption that, although SCAG will provide billions of dollars in funding to remove existing traffic impediments to accessing LAX, this easier access will not facilitate greater operational capacity. Due to that flawed reasoning, the PEIR failed to analyze the impacts of this enhanced capacity, even as it projected a dramatic rise in the number of passengers traveling through LAX. The need for this analysis is particularly acute because none of the previous planning documents for LAX has analyzed, or developed mitigation for, operations scenarios with a capacity above 78.9 million annual passengers (“MAP”). See Specific Plan Amendment Study (“SPAS”) Draft EIR at 2-4 (stating that LAWA will maintain consistency with the Master Plan’s cap of 153 gates and projected 78.9 MAP).

The Project is a major component of the LAX transportation improvements included in the RTP/SCS and would enable increased levels of airport operations by removing existing ground access constraints. Both the Initial Study (“IS”) that LAWA prepared pursuant to CEQA, and the SD, depict these existing constraints as significant. SD at 3; IS at 13–14. The City encourages LAWA not to ignore the impacts of the increased activity that the Project will facilitate, and its potential to further concentrate adverse impacts on nearby residents, by adopting SCAG’s misguided reasoning. As the City has repeatedly emphasized to SCAG, the environmental analysis required by CEQA (or in this case, NEPA) may not simply assert that alleviating these significant constraints will have no effect on airport operations; here, LAWA must provide evidence that it has taken a “hard look” to determine the effects of increased ground access.

B. Because the Project Would Update the 2004 LAX Master Plan's Growth Forecast, the NEPA Document Must Fully Analyze the Effects of Updating the Master Plan.

The 2004 LAX Master Plan, under which LAWA operates today despite the general recommendation that airport master plans be updated every 5 to 10 years, forecast LAX's passenger and aircraft capacity for the horizon year of 2015. *See* 2004 LAX Master Plan Final EIS at A.1-6 *et seq.* Under Alternative D, the approved Master Plan alternative, LAX's constrained capacity in 2015 is 78.9 MAP. *Id.* As noted above, none of the existing planning documents for LAX, including the Master Plan EIS, has analyzed, or developed mitigation for, operations scenarios with a capacity above 78.9 MAP.

In its comments on the NOP, the City requested that LAWA discuss the Project's and Future Development's consistency with the Master Plan, and provide details about what process LAWA would go through to amend the Master Plan to make it consistent with the Project. The City reiterates that request here in light of NEPA's requirement to evaluate project consistency with applicable land use plans. *See* 40 C.F.R. § 1502.16(c).

The NEPA document may not assume that the Project merely implements a component of the existing Master Plan. Rather, the NEPA document must analyze the Project's growth-inducing effect for what it is: an *update* to the growth forecast in the 2004 LAX Master Plan. Accordingly, the analysis must take a "hard look" at the direct and secondary effects of updating the 2004 Master Plan's growth forecast, including the entrance of new aircraft operators. LAWA may not improperly "segment" a full analysis of updating the Master Plan from its evaluation of discrete, physical ground access components.

C. Growth Induced by the Project Will Result in Traffic, Noise, Air Quality, Climate Change, and Other Effects Which Must Be Adequately Analyzed.

The EA must include an analysis of the Project's "growth inducing effects." 40 Code of Fed. Regs. ("C.F.R.") § 1508.8(b). To ensure an accurate analysis of these impacts, the EA should identify the potential growth in MAP numbers and flights that the Project would facilitate and analyze the impacts of those increased operations scenarios. In particular, the EA should address the following impacts of induced growth at LAX.

Traffic. The SD states that the Project will “relieve[] congestion in the CTA and on the surrounding streets.” SD at 3. Yet the IS acknowledges that the Project’s modification to off-airport transportation components, including arterial roads and highway segments, could “result in traffic pattern changes and increased volumes on surrounding roadways.” IS at 114. Because the Project and Future Development could alter current traffic conditions in El Segundo, LAWA must fully analyze the Project’s and Future Development’s traffic impacts.

Additionally, while the Project may include improvements for traffic coming from north and east of the airport, it does virtually nothing for traffic coming from south of the airport. In particular, the connection to the new facilities, including the CONRAC and two ITFs, from northbound I-405 is essentially nonexistent. The NEPA document must therefore analyze the effect of diverting northbound travelers to LAX onto the streets of El Segundo. The City furthermore requests that the EA identify any outstanding, previously adopted transportation mitigation measures and indicate whether these measures will be implemented as part of the Project or, if not, when they will be implemented.

LAWA must also fully analyze the potential for any construction vehicle traffic to use the City’s designated truck routes or major arterial corridors such as Imperial Highway or Pershing Drive. As always, the City asks that truck trips for the Project avoid El Segundo when possible.

Aviation Noise. The SD identifies Noise and Noise-Compatible Land Use as known potential environmental issues (SD at 4), and the IS acknowledges the need to evaluate the Project’s increases to “road traffic noise, construction traffic and equipment noise, and transit noise and vibration” (IS at 108). The noise analysis must also address aviation noise effects caused by ongoing and increased operations at LAX, and the individual and cumulative impacts on people working or residing within LAX and adjoining neighborhoods. Because all previous planning documents for LAX contemplated a maximum operational capacity of 78.9 MAP, the analysis should evaluate any effects on El Segundo residents that will not be adequately mitigated by existing mitigation measures approved in those documents.

Air Quality. LAWA’s proposed air quality analysis (see SD at 3) will be incomplete without accounting for emissions under an increased MAP scenario. El Segundo also reminds LAWA that an accurate cumulative effects air quality analysis must evaluate the Project’s emissions in the context of emissions reductions that are unrelated to the Project. The EA must assess to what extent the Project will undermine air

quality improvements that will occur due to technological advances and federal and state regulations. An accurate analysis of the Project's effects on criteria and toxic pollutant levels is especially important, as LAX area residents already suffer from some of the worst air quality in the nation. See LAX Air Quality & Source Apportionment Study (2013) at 6-52 (summarizing airport's air quality impacts on City of El Segundo), available at <http://www.lawa.org/uploadedFiles/OurLAX/pdf/Vol%202%20-%20LAX%20AQSA%202014%2003%2011s.pdf>; *id.* at 7-18 (identifying South Airfield, adjacent to El Segundo, as a "main source area[] for SO₂").

Climate Change. The EA's climate change analysis must include greenhouse gas ("GHG") emissions attributable to a higher MAP scenario. Although the EA is being prepared pursuant to federal law, it nonetheless must consider whether the Project's emissions would hinder achievement of California's ambitious climate goals. See 40 C.F.R. § 1502.16(c) (requiring a discussion of "[p]ossible conflicts between the proposed action and the objectives of . . . State, and local . . . land use plans, policies, and controls"). Indeed, the most recent guidance for NEPA review of GHG emissions specifically suggests examining "how the agency action will help or hurt California in reaching its emission reduction goals under [AB 32]." COUNCIL ON ENVTL. QUALITY, REVISED DRAFT GUIDANCE FOR GREENHOUSE GAS EMISSIONS AND CLIMATE CHANGE IMPACTS 14 (2014).

D. LAWA Should Include Analysis of a "Constrained Growth" Alternative.

Because a legally adequate analysis of the effects of induced growth caused by the Project could show noise, air quality and climate change impacts far above levels considered acceptable, LAWA should evaluate a constrained growth alternative whereby the proposed Project would accommodate passenger levels up to some number at or below 82.9 MAP, the low end of the range forecast for LAX in the 2040 RTP/SCS.

II. The EA Must Fully Describe and Analyze Other Project Impacts.

A. Scope of Analysis

To provide a complete analysis of the Project's effects, the EA must fully describe and evaluate all components of the Project. The SD lists a series of buildings that will be demolished as part of the Project, and designates whether a replacement building will be constructed or the existing uses accommodated elsewhere on the property. SD at 2. In order to adequately evaluate the effects of these essential "enabling" components of the

Project (*see* IS at 55), LAWA must provide details of the current uses of each of these buildings, specify exactly when and where those uses will be relocated, and analyze any effects of shifting these uses to new locations.

Although not mentioned in the SD, the IS also identifies potential development projects under Future Development that “will be examined at a programmatic level in the EIR.” IS at 55. The EA must describe and analyze these development projects in full detail. This analysis must include an explanation of the proposed temporary and/or long-term use of the Continental City site under the preferred alternative, as well as under the “no project” alternative. Because these future projects cannot proceed without the zoning changes associated with the Project, they are connected actions. *See* 40 C.F.R. § 1508.25(a)(ii) (agencies must analyze connected actions, which include actions that “cannot or will not proceed unless other actions are taken previously or simultaneously”). Consequently, LAWA cannot segment this future development from the Project’s near-term components without providing an adequate description of that development or analysis of its impacts at the earliest opportunity.

B. Construction Staging

The SD does not provide any details about where construction staging for the Project will occur. The City is concerned that certain staging or laydown areas could be located adjacent to its border. Considering the City’s longstanding concerns related to noise and traffic impacts generated by uses at the airport’s southern edge, the City urges that any proposed construction staging be located away from El Segundo. At the very least, the City expects all potential effects from construction staging to be thoroughly analyzed in the EA, and all possible mitigation considered. The project description should state the duration of any construction activities located near El Segundo, as well as the potential for any construction vehicle traffic to use the City’s designated truck routes or major arterial corridors.

C. Cumulative Impacts

The Project is being proposed while other airport projects are still in varying stages of development, in particular, various terminal upgrades, location of a ground run-up enclosure (“GRE”), rehabilitation of runways, and the Airport Metro Connector. The EA must identify and analyze the Project’s effects when considered with these and other past, present, and reasonably foreseeable development at the airport and in the surrounding area. 40 C.F.R. § 1508.7. This requires consideration of the effects of the Future Development projected in the IS (IS at 55), but not discussed in the SD. The City

urges a thorough analysis of potential cumulative impacts and inclusion of meaningful alternatives and mitigation measures in the EA.

III. LAWA Should Conduct a Joint NEPA/CEQA Analysis.

Finally, the City strongly encourages LAWA to coordinate its responsibilities under NEPA and CEQA by combining its analysis into a joint NEPA/CEQA document. Federal regulations require agencies to cooperate “to reduce duplication between NEPA and State and local requirements,” and further provide that “such cooperation shall to the fullest extent possible include . . . joint environmental assessments.” 40 C.F.R. § 1506.2. “A joint [NEPA and CEQA] review process can avoid redundancy, improve efficiency and interagency cooperation, and be easier for applicants and citizens to navigate.” COUNCIL ON ENVTL. QUALITY & CAL. OFF. OF PLANNING & RESEARCH, NEPA AND CEQA: INTEGRATING FEDERAL AND STATE ENVIRONMENTAL REVIEWS 1 (2014). By combining the analysis of the Project into a single document, LAWA will demonstrate its commitment to an open and cooperative public process, as well as reduce the demands of these environmental review processes on LAWA’s own resources.

Thank you for the opportunity to comment on the Project. We request that this firm and the City of El Segundo Planning and Building Safety Department receive of a copy of the Draft EA.

Very truly yours,

SHUTE, MIHALY & WEINBERGER LLP



Joseph “Seph” Petta

ATTACHMENT

SHUTE MIHALY
& WEINBERGER LLP

396 HAYES STREET, SAN FRANCISCO, CA 94102
T: (415) 552-7272 F: (415) 552-5816
www.smwlaw.com

JOSEPH D. PETTA
Attorney
petta@smwlaw.com

March 9, 2015

Via E-Mail and FedEx

Christopher Koontz
Chief of Airport Planning
Los Angeles World Airports
1 World Way, Room 218
Los Angeles, California 90045

E-Mail: ckoontz@lawa.org

Re: Notice of Preparation for LAX Landside Access Modernization
Program

Dear Mr. Koontz:

On behalf of the City of El Segundo, thank you for the opportunity to review the Notice of Preparation (“NOP”) and Initial Study (“IS”) for the Landside Access Modernization Program (“Project”) and Potential Future Related Development (“Future Development”). The City expects to be actively involved in the planning process and looks forward to follow-up discussions and close coordination as the Project goes forward.

As LAWA is aware, El Segundo has a number of longstanding concerns related to LAX, particularly around noise and traffic impacts originating on the southern airfield and/or directed toward El Segundo. El Segundo appreciates that, for now, LAWA appears to have focused the Project and Future Development away from El Segundo. Nevertheless, the City believes that the remaining potential impacts could be further minimized or avoided if LAWA acts consistently with its prior development proposals and decisions, particularly those encompassed by the LAX Master Plan and Specific Plan Amendment Study (“SPAS”). This letter explains El Segundo’s concerns about the Project and Future Development, and calls on LAWA to fully evaluate the potential significant impacts of the Project and Future Development on El Segundo’s residents.

Project Setting and Description. El Segundo urges LAWA to describe the Project and its setting completely and accurately in the EIR. “An accurate, stable and finite project description is the sine qua non of an informative and legally sufficient EIR.” *San Joaquin Raptor/Wildlife Rescue Center v. County of Stanislaus* (1994) 27 Cal.App.4th 713, 727.

El Segundo is concerned that the EIR could fail to sufficiently analyze the Project’s potential impacts due to an incomplete project description. For instance, the Project’s “enabling components” (NOP at 51) include demolition of several facilities, including a hangar complex to the east of the CTA which the NOP describes as “currently leased for storage.” *Id.*; see *id.* at 27 (Fig. 4). However, Figure 2, depicting land uses approved under the LAX Master Plan, shows the hangar complex as an “existing maintenance facility” (*id.* at 19), and Delta’s “Tech Ops” website (<http://www.deltatechops.com>) indicates that the hangar complex is currently used for aircraft maintenance. If aircraft maintenance or other non-storage activities indeed take place at this hangar complex, the EIR must fully describe them and where and when they will be relocated. El Segundo is particularly invested in the displacement and relocation of maintenance facilities in light of the pending ground run-up enclosure (“GRE”) siting study and the West Aircraft Maintenance Area (“WAMA”) proposal.

The EIR must also clearly state where and when all other facilities slated for demolition will be rebuilt or relocated. If any of these facilities will be permanently removed, then the EIR must state this and explain how remaining facilities will accommodate capacity from the facilities planned for removal. Failure to analyze the impacts of the removal and relocation of these facilities in the EIR could run afoul of CEQA’s prohibition on project segmentation.

LAX Master Plan/SPAS Consistency. While the NOP states that the LAX Plan and Specific Plan may need to be amended as part of the Project to allow for potential Future Development (*id.* at 105), the NOP does not discuss the Project’s or Future Development’s consistency with the LAX Master Plan. In particular, it is not clear how the Future Development locations shown in Figure 12 (*id.* at 57) correspond with the same locations in the Master Plan (see *id.* at 19 (Fig. 2)). Although “programmatic” in terms of its analysis of impacts from Future Development, the EIR should analyze the Future Development’s consistency with the LAX Master Plan. El Segundo also urges LAWA to provide additional detail regarding the Project’s consistency with the LAX Master Plan and what process LAWA would go through to amend the Master Plan to make it consistent with the Project.

In addition, El Segundo urges LAWA to analyze and ensure consistency between the Project and the plans and commitments reached through the SPAS process.

Traffic. The Project will have several circulation-related components, including demolition of the ramps from northbound Sepulveda into the airport. (*See id.* at 19 (Fig. 2)). This and other changes to existing on-airport circulation patterns could have traffic impacts in neighboring communities, including in El Segundo. *See id.* at 114 (Project and Future Development “could result in increased traffic impacts on surrounding roadways”). For example, if the northbound Sepulveda ramp is removed, drivers entering LAX from the south may instead access West Century Boulevard via Aviation Boulevard. Because the Project could alter current traffic conditions in El Segundo, the City urges LAWA to fully analyze the Project’s and Future Development’s traffic impacts in the EIR, as well as the potential for any construction vehicle traffic to use the City’s designated truck routes or major arterial corridors such as Imperial Highway or Pershing Drive. As always, the City asks that truck trips for the Project avoid El Segundo when possible.

El Segundo also requests that the EIR identify any outstanding, previously adopted transportation mitigation measures and indicate whether these measures will be implemented as part of the Project or, if not, when they will be implemented.

Construction Staging. The NOP does not state where construction staging for the Project will occur, only that construction staging will be located near the Project “to the extent possible.” *Id.* at 25. However, Figure 3 attached to Appendix A to the NOP suggests there may be two or more staging or laydown areas adjacent to El Segundo’s border. Considering El Segundo’s longstanding concerns related to noise and traffic impacts generated by uses at the airport’s southern edge, the City urges that any proposed construction staging be located away from El Segundo. At the very least, the City expects all potential impacts from construction staging to be thoroughly analyzed and mitigated in the EIR. The project description should state the duration of any construction activities located near El Segundo, as well as the potential for any construction vehicle traffic to use the City’s designated truck routes or major arterial corridors.

Cumulative Impacts. The Project is being proposed while other airport projects are still in varying stages of development, in particular, various CTA terminal upgrades, location of a GRE, rehabilitation of all four runways, and the Airport Metro Connector. The EIR must identify and analyze the Project’s impacts when considered with these and other past, present, and probable future development at the airport and in the surrounding

Christopher Koontz
March 9, 2015
Page 4

area. El Segundo urges a thorough analysis of potential cumulative impacts and inclusion of meaningful alternatives and mitigation measures in the EIR.

Thank you for the opportunity to comment on the Project. We request that this firm and the City of El Segundo Planning and Building Safety Department receive a copy of the Draft EIR.

Very truly yours,

SHUTE, MIHALY & WEINBERGER LLP



Joseph "Seph" Petta

662586.2



Written Comment Form

Scoping Meeting for the LAX Landside Access Modernization Program

The purpose of the scoping process and the meeting is to hear from the public and responsible agencies on what significant environmental issues and alternatives they think should be analyzed in the Draft EA for the LAX Landside Access Modernization Program. Written comments can be submitted at the Public Scoping meeting or mailed/emailed no later than 5:00pm on July 11, 2016. In the space below (and on additional pages if necessary), please provide any written comments you may have concerning the scope of the Draft EA for the proposed project. Your comments will then be considered during preparation of the Draft EA.

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 Chief of Airport Planning
 Los Angeles World Airports
 1 World Way, Room 218
 Los Angeles, CA 90045

All comments must be received no later than 5:00pm, July 11, 2016.

This form can simply be folded and placed in a mailbox (see reverse side). Please remember to add postage.

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If you have any questions and/or comments regarding this project please contact:

LAX Stakeholder Liaison Office
laxstakeholderliaison@lawa.org

Written Comment Form



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Name RAYNOLD C. DAVIS Organization RES.
 Address 547 E. HAZEL ST. #14 City INGENWOOD Zip 90302
 Email RAYEGYPT@AOL.COM Phone 424-702-9703

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Ms. Evelyn Quintanilla
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Appendix O

Draft General Conformity Determination



Table of Contents

1.	Introduction	1
2.	Conformity Rules and Criteria	2
2.1	Transportation Conformity Requirements	2
2.2	General Conformity Requirements	4
3.	Description of Proposed Action.....	6
4.	Applicability Analysis.....	11
4.1	Attainment Status of South Coast Air Basin	11
4.2	Exemptions from General Conformity Requirements	12
4.3	<i>De minimis</i> Emission Thresholds.....	13
5.	Applicability Analysis for Proposed Federal Action.....	15
5.1	Methodology.....	15
5.2	Estimated Emissions	15
5.2.1	CONSTRUCTION EMISSIONS (DIRECT)	16
5.2.2	OPERATIONAL EMISSIONS (INDIRECT).....	17
5.2.3	TOTAL DIRECT AND INDIRECT EMISSIONS FROM THE PROPOSED ACTION ALTERNATIVE.....	18
5.3	Comparison to <i>De Minimis</i> Emission Thresholds and Applicability Determination	20
6.	General Conformity Determination.....	22
6.1	Designation of Applicable SIP	22
6.2	Comparison to SIP Emission Inventories	23
6.3	Comparison to the NAAQS.....	24
6.4	Consistency with Requirements and Milestones in Applicable SIP	26
6.4.1	APPLICABLE REQUIREMENTS FROM USEPA.....	26
6.4.2	APPLICABLE REQUIREMENTS FROM CARB	27
6.4.3	APPLICABLE REQUIREMENTS FROM SCAQMD	27
6.4.4	CONSISTENCY WITH APPLICABLE REQUIREMENTS	27
6.5	Draft General Conformity Determination.....	27

7.	Public Participation.....	29
8.	Findings and Conclusions.....	30

List of Attachments

Attachment A	General Conformity Determination Methodology
Attachment B	SCAQMD Letter to LAWA (May 10, 2016)

List of Tables

Table 1: South Coast Air Basin Attainment Status	12
Table 2: General Conformity <i>de minimis</i> Thresholds	14
Table 3: Proposed Action Alternative Construction Emissions Inventory.....	16
Table 4: No Action Alternative Operational Emissions Inventories.....	17
Table 5: Proposed Action Alternative Operational Emissions Inventories	17
Table 6: Project-Related Operational Emissions.....	18
Table 7: Proposed Action Alternative Total Direct and Indirect Emissions	19
Table 8: SCAQMD NO _x and VOC Emission Budget Available for the LAX Landside Access Modernization Program	24
Table 9: 2024 Proposed Action Alternative Concentrations	25
Table 10: 2030 Proposed Action Alternative Concentrations.....	25
Table 11: 2035 Proposed Action Alternative Concentrations.....	26

List of Figures

Figure 1: LAX Landside Access Modernization Program Components.....	9
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1. Introduction

This Draft General Conformity Determination is provided in support of the proposed improvements associated with the Los Angeles International Airport (LAX) Landside Access Modernization Program. The potential environmental impacts of these improvements are being assessed by the Federal Aviation Administration (FAA) in an Environmental Assessment (EA), including the detailed air quality analysis that supports this Draft General Conformity Determination. The anticipated effects of the proposed federal actions to air quality are discussed in Section 5.1 of the EA, and further assessed here for the Proposed Action Alternative, to satisfy the general conformity requirements of the Federal Clean Air Act. Comments are being sought on this Draft General Conformity Determination; the FAA will make a Final General Conformity Determination prior to making a determination on the EA and the federal actions associated with the LAX Landside Access Modernization Program.

2. Conformity Rules and Criteria

Section 176(c) of the Clean Air Act (42 U.S.C. 7506(c)) requires any entity of the federal government that engages in, supports, or in any way provides financial support for, licenses or permits, or approves any activity to demonstrate that the action conforms to the applicable State Implementation Plan (SIP) required under Section 110(a) of the Clean Air Act (42 U.S.C. 7410(a)) before the action is otherwise approved. In this context, conformity means that such federal actions must be consistent with a SIP's purpose of eliminating or reducing the severity and number of violations of National Ambient Air Quality Standards (NAAQS) and achieving expeditious attainment of those standards. Each federal agency (including the FAA) must determine that any action that is proposed by the agency and that is subject to the regulations implementing the conformity requirements will conform to the applicable SIP before the action is taken. Specifically, a responsible Federal agency is required to determine if the action "conforms" to the applicable SIP by ensuring that the action does not:

- cause or contribute to any new violation of any NAAQS;
- increase the frequency or severity of any existing violations of any NAAQS; or
- delay the timely attainment of any NAAQS or any required interim emission reductions or other milestones.

Federal actions subject to conformity are divided into two categories: transportation conformity actions and general conformity actions. The Transportation Conformity Regulations (40 CFR Part 51 and Part 93) cover certain surface transportation actions relating to highway and transit. General conformity actions are all other Federal actions in nonattainment and maintenance areas that are not covered by the Transportation Conformity Regulations.

2.1 Transportation Conformity Requirements

Transportation conformity ensures that certain surface transportation-related actions of the Federal government and recipients of Federal highway and transit assistance are consistent with air quality goals as established in the SIP. This is done through procedures for the consideration of metropolitan transportation plans/regional transportation plans (MTPs/RTPs), shorter-term transportation improvement programs (TIPs),

and Federal Highway Administration (FHWA) or Federal Transit Administration (FTA) projects as defined by 40 CFR § 93.101.

Transportation conformity determinations are made by the Federal agency overseeing the improvements to the transportation network, either the FHWA or the FTA. Metropolitan Planning Organizations (MPO) make conformity determinations for metropolitan transportation plans and TIPs in metropolitan areas, while transportation agencies, including State Departments of Transportation (DOTs), conduct the analyses associated with project-level conformity. The MPO for the Los Angeles metropolitan area is the Southern California Association of Governments (SCAG). A formal interagency consultation process is required for developing SIPs, MTPs/RTPs, TIPs, and making conformity determinations. As a result, the consultation process typically includes the U.S. Environmental Protection Agency (USEPA), FHWA, FTA, State and local transportation agencies, and air quality agencies.

Federally funded or approved highway and transit projects subject to transportation conformity are required to meet project-level conformity requirements. To demonstrate project-level conformity, a project must:

- a) come from a conforming metropolitan transportation plan and TIP;
- b) its design concept and scope must not have changed significantly from that in the metropolitan transportation plan and TIP;
- c) the analysis must have used the latest planning assumptions and latest emissions model; and
- d) in particulate matter (PM) nonattainment and maintenance areas, there must be a demonstration of compliance with any control measures in the SIP.

In carbon monoxide and particulate matter nonattainment and maintenance areas, additional analysis may be necessary to determine if a project has localized air quality impacts. This localized air quality analysis is referred to as a "hot-spot" analysis.

To facilitate the review of transportation conformity for projects in Southern California, the SCAG has formed a working group called the Transportation Conformity Working Group (TCWG).¹ Membership of the SCAG's TCWG includes Federal (USEPA, FHWA, FTA), State (Air Resources Board or CARB, Caltrans), regional (South Coast Air Quality Management District or SCAQMD, SCAG), and sub-regional (County transportation commissions) agencies, and other stakeholders.

Steps in the transportation conformity process used by SCAG through its TCWG are:

- Compare the project in the RTP with project being evaluated
- Conduct surface traffic modeling that shows analysis for study area

¹ Southern California Association of Governments, "Transportation Conformity Working Group (TCWG)," available: <http://www.scag.ca.gov/programs/Pages/TCWG.aspx> (accessed May 3, 2017).

- Assure that modeling is comparable to RTP
- Coordinate assumptions and analysis years
- Coordinate with SCAG TCWG
- Conduct hot-spot analyses and/or qualitative analysis
- Evaluate Average Daily Traffic (ADT)/Vehicle Miles Traveled (VMT) to ensure that the reductions associated with the project and/or mitigations have been achieved
- TCWG will render a finding, published on SCAG website

Consistent with the Transportation Conformity and General Conformity, and at the request of the air quality agencies consulted during preparation of the air quality protocol² for the LAX Landside Access Modernization Program (including the SCAQMD and USEPA), it was agreed that construction emissions associated with the LAX Landside Access Modernization Program would be evaluated under the general conformity regulations. The operational emissions associated with the LAX Landside Access Modernization Program would also be considered under the general conformity regulations, unless those projects' operational emissions have been or will be addressed under the Transportation Conformity Rules.

The SCAG *2016-2040 Regional Transportation Plan/Sustainable Communities Strategies (RTP/SCS)* accounts for on-road motor vehicle and transit vehicle emissions on the network of regionally significant roads, highways and streets. Operational emissions of non-roadway facilities or roadways not considered regionally significant (i.e., not contained in the 2016-2040 RTP/SCS) are also evaluated under the general conformity regulations. Operational emissions of regionally significant roadways (i.e., those contained in the 2016-2040 RTP/SCS) would be processed and evaluated through the Transportation Conformity Regulations, in accordance with 40 CFR § 93.153. Any project-level analysis under the transportation conformity regulations deemed necessary by the TCWG will be completed using the analysis documented above and published on the SCAG TCWG website.³

2.2 General Conformity Requirements

Projects that are not addressed under Transportation Conformity are evaluated under general conformity. The process of evaluating projects under the General Conformity Rules generally starts with:

² A copy of the air quality protocol is included in Appendix F, Air Quality, of the LAX Landside Access Modernization Program Draft Environmental Assessment.

³ Southern California Association of Governments, Transportation Conformity Working Group (TCWG), available: www.scag.ca.gov/programs/Pages/TCWG.aspx, accessed May 3, 2017.

- 1) determining if the project is exempt,
- 2) determining if the project is presumed to conform, and
- 3) preparation of an applicability analysis, if the project is not exempt or presumed to conform, including an evaluation of whether project emissions would exceed *de minimis* thresholds under the regulations;
- 4) for projects that exceed *de minimis* levels, a General Conformity Determination is required.

The LAX Landside Access Modernization Program is neither exempt from nor presumed to conform with the General Conformity Regulations.

General conformity applies to any criteria pollutants for which an area is in nonattainment or maintenance status. An applicability analysis under general conformity consists of preparing an emissions inventory for all project-related direct and indirect emissions and comparing that result with the *de minimis* thresholds. The regulation defines the thresholds based on pollutant and attainment/non-attainment designation. The thresholds applicable at LAX under the General Conformity Rules are shown in Section 4.3. Emissions for the LAX Landside Access Modernization Program will be compared to these *de minimis* thresholds. 40 CFR § 93.159(d) notes that when comparing emissions to *de minimis* thresholds, the following scenarios must be considered:

- a) emissions in the year of attainment or the farthest year for which emissions are projected in the maintenance plan;
- b) the year in which the total of direct and indirect project-related emissions are expected to be the greatest on an annual basis; and
- c) any year for which the SIP has an applicable emissions budget.

If emissions in all of these scenarios are less than *de minimis*, no further analysis is needed.

If emissions are above *de minimis* levels, a General Conformity Determination is required. In a General Conformity Determination, the rule allows for the following avenues to show conformity:

1. A written determination from the State/local air quality agency stating that the project emissions, together with all other emissions in the non-attainment or maintenance area, would not exceed the emissions budget in the SIP.
2. A written commitment from the Governor, or the Governor's designee for SIP actions, to include the emissions in a revised SIP (this automatically results in a call for a SIP revision).
3. Offsetting or mitigating project emissions so that there is no net increase within the non-attainment or maintenance area.
4. The applicable MPO determines that the emissions from the project, or portion thereof, are included in a conforming transportation plan and transportation improvement program.

3. Description of Proposed Action

The LAX Landside Access Modernization Program (the Proposed Action Alternative) consists of several primary components. The centerpiece is an Automated People Mover (APM) system with 6 stations, which would provide free, fast, convenient, and reliable access to the Central Terminal Area (CTA) for passengers, employees, and other users of LAX, 24 hours a day. The APM system would transport passengers between the CTA and the other main components of the Proposed Action Alternative located east of the CTA, including a state-of-the-art, Consolidated Rental Car Facility (CONRAC), new public parking facilities and multiple locations for passenger pick-up and drop-off. In addition, the APM system would include a station at the multi-modal/transit facility at W. 96th Street/Aviation Boulevard planned by Metro as a separate and independent project to provide the opportunity for passengers to access the Metro regional rail system. The LAX Landside Access Modernization Program would reduce traffic volumes and congestion within the CTA as well as on local streets, by shifting passengers to the APM system for the first/last mile of their trip to the Airport, and providing a seamless connection to the Metro transit system.

Project components associated with the LAX Landside Access Modernization Program include:

- APM system with six APM stations connecting the CTA to new ground transportation facilities proposed between Sepulveda Boulevard and Interstate 405;
- Passenger walkway systems connecting the APM stations to passenger terminals, parking garages, and ground transportation facilities;
- Modifications to existing passenger terminals and parking garages within the CTA for passenger walkway system connections and vertical circulation to the arrival, departure, and concourse levels;
- Intermodal transportation facilities (ITF) that would provide pick-up and drop-off areas outside the CTA for private vehicles and commercial shuttles;
- CONRAC designed to consolidate car rental agencies in a centralized location with access to the CTA via the APM;
- Roadway improvements designed to improve access to the proposed facilities and the CTA and reduce traffic congestion in neighboring communities; and
- Utilities needed to support the LAX Landside Access Modernization Program.

To the extent possible, construction laydown and staging areas would be located adjacent to or within the construction sites for the proposed facilities or at existing LAX construction staging areas.

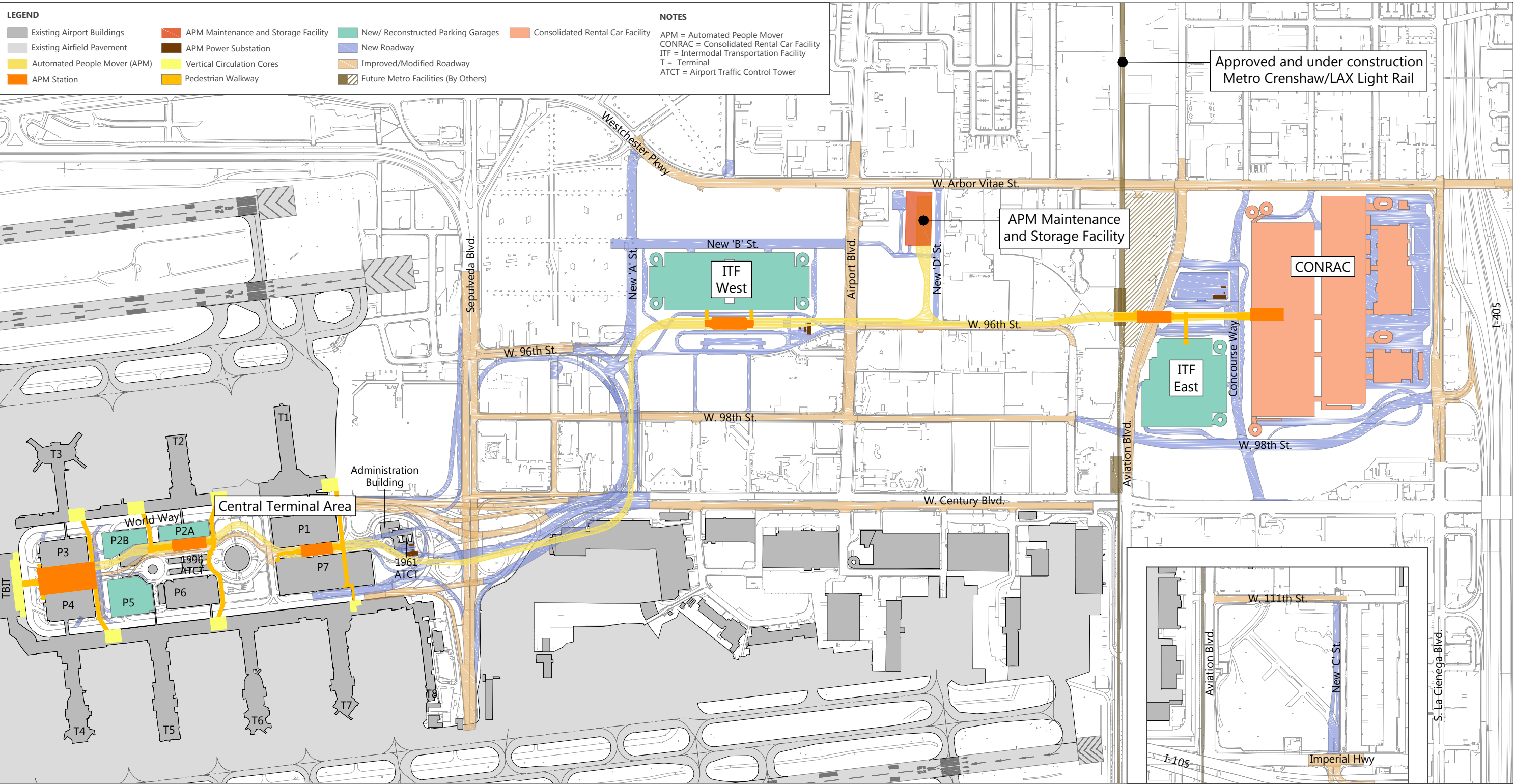
Enabling projects required to implement the LAX Landside Access Modernization Program include:

- Demolition of parking garages P2A, P2B, and P5 and construction of replacement garages in the CTA that may result in an increase of approximately 1,100 parking spaces within the CTA;
- Relocation of LAWA administrative offices housed in the Clifton Moore Administration building (1 World Way, also known as Admin East) to the existing LAWA-owned Skyview Center at 6033 and 6053 West Century Boulevard;
- Demolition of the Clifton Moore Administration building (1 World Way);
- Relocation of existing rental car facilities;
- Demolition of the existing restaurant building located at 9601 Airport Boulevard on property owned by LAWA;
- Demolition of the Metro LAX City Bus Center bus terminal located north of West 96th Street on property owned by LAWA;
- Demolition of the USO and U.S. Customs and Border Protection Facility located on the lower level of the CTA between parking garages P1 and P2A and south of Terminal 2 - uses would be accommodated in the ground floor of the Theme Building;
- Improvements of portions of Center Way within the CTA;
- Demolition of existing hangars/buildings located at 6150 and 6190 West Century Boulevard owned by LAWA that are currently leased for storage - replacement facilities would be constructed on-Airport property;
- Demolition of the Reliant Medical Center located on LAWA-owned property at 9601 South Sepulveda Boulevard - existing uses could be accommodated either on-Airport property or elsewhere;
- Completion of the Manchester Square acquisition program including the Stella Middle Charter Academy and Bright Star Secondary Charter Academy facilities located at 5431 West 98th Street; and
- Acquisition of other parcels where the APM or roadway improvements are proposed including, but not limited to:
 - 6141 West Century Boulevard owned by Metro and leased by an off-airport parking operator;
 - 9606/9610 Bellanca Avenue occupied by Secom International; and
 - 9600 South Sepulveda Boulevard owned by WallyPark.
- Closure and demolition of roads
- Demolition of the Travelodge Hotel located at 5547 W. Century Boulevard located on LAWA-owned property.
- Relocation or abandonment of existing utilities located within and adjacent to roadways.

Figure 1 provides an overview of the Proposed Action. The Proposed Action would not affect or change any airfield components, including the runways, taxiways, or aircraft arrival and departure procedures.

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[Preliminary Draft for Discussion Purposes Only]



NOTE: Improvements depicted are conceptual only and do not represent engineered design.
SOURCE: HNTB Corp., Los Angeles International Airport Layout Plan, July 2012; MapLAX, July 2016.
PREPARED BY: Ricondo & Associates, Inc., August 2017.

FIGURE 1



LAX Landside Access Modernization Program Components

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4. Applicability Analysis

As stated previously, the first step in a general conformity evaluation is an analysis of whether the requirements apply to a federal action proposed to be taken in a nonattainment or a maintenance area. Unless exempted by the regulations or otherwise presumed to conform, a proposed federal action requires a general conformity determination for each pollutant where the total of direct and indirect emissions caused by the proposed action would equal or exceed an annual *de minimis* emission level. If emissions are lower than the applicable *de minimis* threshold, no further analysis is needed.

4.1 Attainment Status of South Coast Air Basin

LAX is located in the South Coast Air Basin (Basin), which is a sub-region of the SCAQMD's jurisdiction. The Basin is designated as a federal nonattainment area for ozone (O₃), fine particulate matter with an aerodynamic diameter less than or equal to 2.5 micrometers (PM_{2.5}), and lead (Pb). Nonattainment designations under the Clean Air Act for O₃, PM_{2.5}, and respirable particulate matter with an aerodynamic diameter less than or equal to 10 micrometers (PM₁₀) are categorized into levels of severity based on the level of concentration above the standard, which is also used to set the required attainment date. Attainment/maintenance means that the pollutant is currently in attainment and that measures are included in the SIP to ensure that the NAAQS for that pollutant are not exceeded again (maintained). **Table 1** presents the federal attainment designations for each of the criteria air pollutants.

Table 1: South Coast Air Basin Attainment Status

POLLUTANT	NATIONAL STANDARDS ^{1/}
Ozone (O ₃) 8-Hour Standard	Nonattainment – Extreme
Ozone (O ₃) 1-Hour Standard	(Nonattainment – Extreme) ^{2/}
Carbon Monoxide (CO)	Attainment – Maintenance
Nitrogen Dioxide (NO ₂)	Attainment – Maintenance
Sulfur Dioxide (SO ₂)	Attainment
Respirable Particulate Matter (PM ₁₀)	Attainment – Maintenance
Fine Particulate Matter (PM _{2.5})	Nonattainment – Serious ^{3/}
Lead (Pb)	Nonattainment

NOTES:

1/ Status as of June 17, 2016.

2/ The South Coast Air Basin had not attained the 1-hour O₃ standard by the time it was replaced with the 1997 8-hour O₃ standard. Therefore, the State Implementation Plan for the South Coast must still contain demonstrations that the 1-hour O₃ standard will be attained.

3/ Classified as moderate nonattainment for 2012 NAAQS and serious nonattainment for 2006 NAAQS. Thus, for conformity purposes the serious nonattainment *de minimis* threshold will be used.

SOURCE: U.S. Environmental Protection Agency, "Green Book Nonattainment Areas," April 22, 2016, available: <https://www3.epa.gov/airquality/greenbook/index.html> (accessed May 24, 2016).

PREPARED BY: Ricondo & Associates, Inc., September 2016.

4.2 Exemptions from General Conformity Requirements

As noted previously, the general conformity requirements apply to a proposed federal action if the total project-related direct and indirect emissions equal or exceed *de minimis* emission levels. The only exceptions to this applicability criterion are the topical exemptions summarized below. However, the emissions attributable to the Proposed Action Alternative do not meet any of these exempt categories.

- Actions which would result in no emissions increase or an increase in emissions that is clearly below the *de minimis* levels (40 CFR 93.153(c)(2)). Examples include administrative actions and routine maintenance and repair.
- Actions where the emissions are not reasonably foreseeable (40 CFR 93.153(c)(3)).
- Actions which implement a decision to conduct or carry out a conforming program (40 CFR 93.153(c)(4)).
- Actions which include major new or modified sources requiring a permit under the New Source Review (NSR) program (40 CFR 93.153(d)(1)).
- Actions in response to emergencies or natural disasters (40 CFR 93.153(d)(2)).

- Actions which include air quality research not harming the environment (40 CFR 93.153(d)(3)).
- Actions which include modifications to existing sources to enable compliance with applicable environmental requirements (40 CFR 93.153(d)(4)).
- Actions which include emissions from remedial measures carried out under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) that comply with other applicable requirements (40 CFR 93.153(d)(5)).

In addition to these topical exemptions, the general conformity regulations allow each federal agency to establish a list of activities that are presumed to conform (40 CFR 93.153(f)). The FAA has published its "Presumed to Conform Actions Under General Conformity" in the Federal Register on July 30, 2007. This list consists of 15 airport project categories for FAA actions that are presumed to conform. However, the Proposed Action Alternative is not exempting any elements as presumed to conform⁴.

4.3 *De minimis* Emission Thresholds

As noted in Section 4.1, LAX is located in a non-attainment or maintenance area for a number of pollutants. The *de minimis* thresholds applicable to the Proposed Action Alternative are shown in **Table 2**.

⁴ Some sources, such as concrete batch plants, are covered under LAWA's existing Title V permit; however, to be conservative they were included in the air quality conformity analysis.

[DRAFT]

Table 2: General Conformity *de minimis* Thresholds

NAAQS	ATTAINMENT STATUS (SEVERITY) ^{1/}	POLLUTANT(S)	DE MINIMIS THRESHOLD (TONS PER YEAR)
Carbon Monoxide (CO)	Attainment - Maintenance	CO	100
Fine Particulate Matter (PM _{2.5})	Nonattainment – Serious ^{2/}	PM _{2.5}	70
Lead (Pb)	Nonattainment	Pb	25
Nitrogen Dioxide (NO ₂)	Attainment - Maintenance	NO ₂	100
Ozone (O ₃)	Non-attainment – Extreme ^{3/}	NO _x	10
		VOC	10
Respirable Particulate Matter (PM ₁₀)	Attainment - Maintenance	PM ₁₀	100

NOTES:

1/ Status as of June 17, 2016.

2/ Classified as moderate nonattainment for 2012 NAAQS and serious nonattainment for 2006 NAAQS. Thus, for conformity purposes the serious nonattainment *de minimis* threshold will be used.

3/ The South Coast Air Basin had not attained the 1-hour O₃ standard by the time it was replaced with the 1997 8-hour O₃ standard. Therefore, the State Implementation Plan for the South Coast must still contain demonstrations that the 1-hour O₃ standard will be attained.

SOURCES: General Conformity Rule (40 CFR Part 93, Subpart B); USEPA; U.S. Environmental Protection Agency, "Green Book Nonattainment Areas," April 22, 2016, available: <https://www3.epa.gov/airquality/greenbook/index.html> (accessed May 24, 2016).

PREPARED BY: Ricondo & Associates, Inc., September 2016.

5. Applicability Analysis for Proposed Federal Action

5.1 Methodology

Attachment A contains a discussion of the approach for estimating emissions for this general conformity evaluation, as well as details regarding the significant assumptions and calculation methods used to estimate emissions.

5.2 Estimated Emissions

Six criteria pollutants⁵ were evaluated in the LAX Landside Access Modernization Program EA air quality analysis for the General Conformity Determination, namely carbon monoxide (CO), nitrogen dioxide (NO₂), O₃, PM₁₀, and PM_{2.5}, and sulfur dioxide (SO₂), for both construction and operations of the No Action Alternative and the Proposed Action Alternative. The total of direct and indirect emissions for the proposed federal action is the difference between the emissions of the No Action and Proposed Action Alternatives. Because the Los Angeles metropolitan area is in attainment for SO₂, it is not included in the conformity analysis below.

In preparing the applicability analysis, two key types of emissions are included: direct (construction of the Proposed Action Alternative) and indirect (operation of the facilities once completed). The total of these direct and indirect emissions are compared to the applicable *de minimis* threshold for purposes of determining if a General Conformity Determination is required.

⁵ Although the South Coast Air Basin is designated as a federal nonattainment area for lead, it was not evaluated in the air quality analysis for the General Conformity Determination since no leaded fuel is provided at LAX by LAWA; thus the Proposed Action Alternative would have negligible impacts of lead levels in the South Coast Air Basin.

[DRAFT]

5.2.1 CONSTRUCTION EMISSIONS (DIRECT)

Construction of the Proposed Action Alternative would be conducted in two phases. Phase 1 of the Proposed Action Alternative would include the vast majority of the proposed access/transportation-related improvements, such as the APM, the CONRAC, the ITF West, the ITF East, and most of the roadway improvements, planned to be operational by 2024. Phase 2 of the Proposed Action Alternative would mainly consist of additional roadway improvements at the W. Century Boulevard/Sepulveda Boulevard interchange; these elements would likely be constructed by 2030. Criteria pollutant emissions inventories were prepared for each construction year; a criteria pollutant dispersion analysis was performed for the peak year of construction. The emissions inventory for construction activities associated with the Proposed Action Alternative is presented in **Table 3**.

Table 3: Proposed Action Alternative Construction Emissions Inventory

CONSTRUCTION YEAR	ESTIMATED ANNUAL EMISSIONS OF CRITERIA POLLUTANTS (TONS/YEAR)				
	CO	VOC	NO _x	PM ₁₀	PM _{2.5}
Phase 1					
2018	21	5	18	2	1
2019	33	4	36	3	1
2020	29	4	35	3	1
2021	19	2	20	2	1
2022	10	1	11	1	1
2023	8	<1	7	1	<1
2024	3	<1	2	<1	<1
Phase 2					
2025	<1	<1	<1	<1	<1
2026	<1	<1	<1	<1	<1
2027	<1	<1	<1	<1	<1
2028	<1	<1	<1	<1	<1
2029	<1	<1	<1	<1	<1
2030	<1	<1	<1	<1	<1
<i>Peak Annual Emissions</i>	33	5	36	3	1

SOURCE: CDM Smith, 2017.

PREPARED BY: Ricondo & Associates, Inc., January 2017.

5.2.2 OPERATIONAL EMISSIONS (INDIRECT)

Criteria pollutant emissions associated with the No Action Alternative for 2024, 2030, and 2035 are presented in **Table 4**. Without improvements to the roadway network, local traffic conditions would deteriorate, and thus, mobile source emissions would generally be higher under the No Action Alternative when compared to the Proposed Action Alternative. However, given changes in building area and systems associated with the Proposed Action, electricity usage may change, particularly in regards to new demand of energy systems as a result of new construction.

Table 4: No Action Alternative Operational Emissions Inventories

POLLUTANT	EMISSIONS (TONS/YEAR)		
	2024	2030	2035
CO	879	710	579
VOC	25	20	15
NO _x	120	114	97
SO _x	3	3	3
PM ₁₀	144	154	154
PM _{2.5}	46	49	48

SOURCE: CDM Smith, 2017.

PREPARED BY: Ricondo & Associates, Inc., February 2017.

Criteria pollutant emissions associated with the Proposed Action Alternative for 2024, 2030, and 2035 are presented in **Table 5**. The emissions inventories presented below include vehicular emissions, as would be influenced by implementation of the Proposed Action Alternative, as well as facility space and water heating (natural gas combustion), and secondary emissions from electrical demand associated with the Proposed Action Alternative. **Table 6** identifies the incremental project-related operational emissions for 2024, 2030, and 2035 as compared to the No Action Alternative.

Table 5: Proposed Action Alternative Operational Emissions Inventories

POLLUTANT	EMISSIONS (TONS/YEAR)		
	2024	2030	2035
CO	834	621	507
VOC	25	19	15
NO _x	118	111	96
SO _x	3	3	3
PM ₁₀	138	137	137
PM _{2.5}	45	44	44

SOURCE: CDM Smith, 2017.

PREPARED BY: Ricondo & Associates, Inc., February 2017.

Table 6: Project-Related Operational Emissions

POLLUTANT	EMISSIONS (TONS/YEAR)		
	2024	2030	2035
CO	-45	-89	-72
VOC	0	-1	0
NO _x	-2	-3	-1
SO _x	0	0	0
PM ₁₀	-6	-17	-17
PM _{2.5}	-1	-5	-4

NOTE: Project-related emissions reflect the emissions of the Proposed Action Alternative Project minus the No Action Alternative.

SOURCE: CDM Smith, 2017.

PREPARED BY: Ricondo & Associates, Inc., February 2017.

5.2.3 TOTAL DIRECT AND INDIRECT EMISSIONS FROM THE PROPOSED ACTION ALTERNATIVE

As shown in Table 3, direct emissions have been calculated for each year of construction, estimated from 2018 to 2030. To estimate the annual indirect emissions for the same years as the direct construction emissions, a linear interpolation was conducted as it is not possible to estimate annual operational emissions at this time. **Table 7** summarizes the total direct and indirect emissions from the project. Note that none of the main components (APM, CONRAC, East ITF, complete West ITF) of the Proposed Action Alternative are scheduled to be operational prior to 2024, although some roadway improvements and a portion of the West ITF parking garage may open prior to that date. However, to be conservative, it was assumed that no operational benefit of the roadway improvements or provision of parking outside of the CTA would occur; thus, indirect emissions from operations were assumed to be zero, as shown in Table 7.

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Table 7 (1 of 2): Proposed Action Alternative Total Direct and Indirect Emissions

ESTIMATED TOTAL DIRECT AND INDIRECT ANNUAL EMISSIONS (TONS/YEAR)					
YEAR	CO	VOC	NO _x	PM ₁₀	PM _{2.5}
2018 (total direct and indirect)	21	5	18	2	1
Construction	21	5	18	2	1
Operation	0	0	0	0	0
2019 (total direct and indirect)	33	4	36	3	1
Construction	33	4	36	3	1
Operation	0	0	0	0	0
2020 (total direct and indirect)	29	4	35	3	1
Construction	29	4	35	3	1
Operation	0	0	0	0	0
2021 (total direct and indirect)	19	2	20	2	1
Construction	19	2	20	2	1
Operation	0	0	0	0	0
2022 (total direct and indirect)	10	1	11	1	1
Construction	10	1	11	1	1
Operation	0	0	0	0	0
2023 (total direct and indirect)	8	0	7	1	0
Construction	8	<1	7	1	<1
Operation	0	0	0	0	0
2024 (total direct and indirect)	-42	<1	0	-5	0
Construction	3	<1	2	<1	<1
Operation	-45	0	-2	-6	-1
2025 (total direct and indirect)	-52.3	-0.2	-2.2	-7.8	-1.5
Construction	<1	<1	<1	<1	<1
Operation*	-52.3	-0.2	-2.2	-7.8	-1.5
2026 (total direct and indirect)	-59.7	-0.3	-2.3	-9.7	-2.0
Construction	<1	<1	<1	<1	<1
Operation	-59.7	-0.3	-2.3	-9.7	-2.0

Table 7 (2 of 2): Proposed Action Alternative Total Direct and Indirect Emissions

ESTIMATED TOTAL DIRECT AND INDIRECT ANNUAL EMISSIONS (TONS/YEAR)					
YEAR	CO	VOC	NO _x	PM ₁₀	PM _{2.5}
2027 (total direct and indirect)	-67.0	-0.5	-2.5	-11.5	-2.5
Construction	<1	<1	<1	<1	<1
Operation	-67.0	-0.5	-2.5	-11.5	-2.5
2028 (total direct and indirect)	-74.3	-0.7	-2.7	-13.3	-3.0
Construction	<1	<1	<1	<1	<1
Operation	-74.3	-0.7	-2.7	-13.3	-3.0
2029 (total direct and indirect)	-81.7	-0.8	-2.8	-15.2	-3.5
Construction	<1	<1	<1	<1	<1
Operation	-81.7	-0.8	-2.8	-15.2	-3.5
2030 (total direct and indirect)	-89.0	-1.0	-3.0	-17.0	-4.0
Construction	<1	<1	<1	<1	<1
Operation	-89.0	-1	-3	-17	-4
de minimis Threshold	100	10	10	100	70
Exceeds de minimis Threshold	No	No	Yes	No	No

NOTE: Operational emissions for years 2025 through 2029 have been linearly interpolated from 2024 and 2030 data.

SOURCE: CDM Smith, 2017.

PREPARED BY: Ricondo & Associates, Inc., April 2017.

5.3 Comparison to *De Minimis* Emission Thresholds and Applicability Determination

As shown in Table 7, the total direct and indirect Project-related emissions were compared to the applicable *de minimis* threshold. As noted in the General Conformity Rule, the following emissions must be identified:

- Emissions in the year of attainment or the farthest year for which emissions are projected in the maintenance plan; the farthest projected in the 2012 AQMP (current approved SIP) is 2030. Thus, emissions in this applicability analysis focus on those related to the Proposed Action Alternative through 2030.
- The year in which the total of direct and indirect project-related emissions are expected to be the greatest on an annual basis. The years of greatest project-related emissions are in 2019 for CO, NO_x,

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and PM₁₀, and PM_{2.5}, and in 2018 for VOC. Emissions in these years are entirely from construction activities; the operations-related emissions associated with a more efficient roadway system do not start to offset the construction emissions until 2024.

- Any year for which the SIP has an applicable emissions budget. If emissions in all of these scenarios are less than *de minimis* levels, no further analysis is needed. The current approved SIP has an emission budget for virtually every year. Thus, the emissions were estimated for all years as shown in Table 7.

Peak project-related emissions occur in 2019 for CO, NO_x, and PM₁₀ and PM_{2.5}, and in 2018 for VOC. Only for NO_x do the emissions exceed the *de minimis* threshold; in 2019 NO_x emissions would be 36 tons per year (TPY), whereas the *de minimis* threshold is 10 TPY. Therefore, a General Conformity Determination is only required for NO_x.

6. General Conformity Determination

6.1 Designation of Applicable SIP

CARB designates both air quality management districts and air pollution control districts within California for the purpose of implementing and enforcing ambient air quality standards on a regional or airshed basis. These agencies must prepare regional plans (Air Quality Management Plans [AQMPs]) to support the broader SIP, as well as to meet the goals of the California Clean Air Act.

Periodically, SCAQMD must prepare and submit to CARB an AQMP to demonstrate how the Basin will attain and maintain the NAAQS and the California ambient air quality standards. The AQMP contains extensive emissions inventories of all emission sources in the Basin as well as various control measures applicable to most of these sources. Once CARB approves the AQMP, it is submitted to USEPA for approval as part of the SIP. The Final 2012 AQMP was adopted by the SCAQMD Governing Board and submitted to the USEPA in December 2012.⁶ USEPA approved it as part of the SIP on September 3, 2014.⁷ SCAQMD released the Draft Final 2016 AQMP for public review in December 2016 and adopted the Final 2016 AQMP on March 3, 2017, and has submitted it to CARB and USEPA for review.⁸ The 2016 AQMP is a comprehensive and integrated Plan primarily focused on addressing O₃ standards and is expected to serve as the future SIP for the Basin. It is not anticipated that the 2016 AQMP will be approved by USEPA prior to the final General Conformity Determination for the LAX Landside Access Modernization Program. As a result, the 2012 AQMP is the applicable SIP for purposes of this General Conformity Determination.

⁶ South Coast Air Quality Management District, "Air Quality Management Plans (AQMP)," <http://www.aqmd.gov/home/library/clean-air-plans/air-quality-mgt-plan> (accessed January 7, 2015).

⁷ U.S. Environmental Protection Agency, "Approval and Promulgation of Implementation Plans; California; South Coast 1-Hour and 8-Hour Ozone and Approval of Air Quality Implementation Plan Revisions; State of California; South Coast VMT Emissions Offset Demonstrations; Final Rules", *Federal Register*, Vol. 79, No. 170, September 3, 2014, effective October 3, 2014.

⁸ South Coast Air Quality Management District, *Final 2016 Air Quality Management Plan*, March 2017.

6.2 Comparison to SIP Emission Inventories

SCAQMD has determined that the emissions from the LAX Landside Access Modernization Program construction are included in the general conformity budget for NO_x and VOC emissions in the AQMP for the duration of the Phase 1 LAX Landside Access Modernization Program implementation. As discussed above, inclusion of emissions of a proposed action in the applicable SIP is one of the criteria that can be used to demonstrate conformity.

As noted in the May 10, 2016 letter from SCAQMD to LAWA (see **Attachment B**), SCAQMD has confirmed the availability of emissions reserved in the SIP for “general conformity” projects like the LAX Landside Access Modernization Program. Anticipating that general conformity would require some allocation of project emissions, SCAQMD developed a general conformity budget when the 2012 AQMP was prepared and approved. The AQMP documentation (*Final 2012 AQMP: Appendix III Base and Future Year Emission Inventory* see pages III-2-52 and III-2-53) notes that SCAQMD reserved 1 ton of NO_x per day and 0.2 ton of VOC per year in the AQMP for future general conformity projects (and thus was approved by USEPA in the SIP). This would translate to 365 tons of NO_x and 73 tons of VOC. In its May 10, 2016 letter to LAWA, SCAQMD confirmed that a portion of the NO_x and VOC emissions budget is available to the LAX Landside Access Modernization Program, as shown in **Table 8**, and is not being used for other projects.

Additionally, the 2016 AQMP, adopted by SCAQMD in March 2017, includes the LAX Landside Access Modernization Program construction NO_x and VOC emissions and notes that these emissions have been set aside in the general conformity set-aside account.⁹

⁹ South Coast Air Quality Management District, *Final 2016 Air Quality Management Plan*, Appendix III, Base and Future Year Emission Inventory, Tables III-2-25 and III-2-26, pp. III-2-86 – III-2-87, March 2017.

Table 8: SCAQMD NO_x and VOC Emission Budget Available for the LAX Landside Access Modernization Program

YEAR	POLLUTANT	
	NO _x (TPY)	VOC (TPY)
2017	82	10
2018	164	32
2019	194	41
2020	198	42
2021	122	37
2022	63	23
2023	53	21

SOURCE: South Coast Air Quality Management District, May 10, 2016.

PREPARED BY: Ricondo & Associates, Inc., May 2016.

Based on the estimated NO_x construction emissions identified in Table 3 for Phase 1 and total emissions identified in Table 7, all NO_x emissions resulting from construction of the Proposed Action Alternative would be within the general conformity budget allocation noted in the May 10, 2016 letter. Therefore, emissions from the LAX Landside Access Modernization Program would conform to the SIP and meet the criteria for conformity under the General Conformity Regulations.

6.3 Comparison to the NAAQS

Conformity means that a proposed federal action will not cause or contribute to any new violation of any NAAQS; not increase the frequency or severity of any existing violation of any NAAQS; and not delay timely attainment of any NAAQS or any required interim emission reductions or other milestones (42 U.S.C. 7506(c)(1)(B)). The general conformity regulations allow that local and/or areawide air quality modeling may be used to demonstrate that these requirements are met in support of a positive conformity determination (40 CFR 93.158(a)(3) and 40 CFR 93.158(a)(4)(i)). This evaluation used dispersion modeling to predict the impacts of all pollutant emissions. Input and output data for specified dispersion model runs are available upon request.

Proposed Action Alternative concentrations were developed for 2024, 2030, and 2035, and the results of the dispersion analysis for each year are provided in **Tables 9, 10, and 11**, respectively. As shown, emissions associated with the Proposed Action Alternative would not exceed the NAAQS thresholds. Therefore, no significant operational air quality impacts would occur under the Proposed Action Alternative when compared to the No Action Alternative.

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Table 9: 2024 Proposed Action Alternative Concentrations

POLLUTANT	AVERAGING PERIOD	INCREMENTAL PEAK ($\mu\text{g}/\text{m}^3$) ^{1/}	BACKGROUND ($\mu\text{g}/\text{m}^3$)	TOTAL ($\mu\text{g}/\text{m}^3$)	THRESHOLD ($\mu\text{g}/\text{m}^3$)	EXCEEDS THRESHOLD?
CO	1-hr	78	3,565	3,643	40,000	No
CO	8-hr	37	2,778	2,815	10,000	No
NO ₂	1-hr	6	116	122	188	No
NO ₂	Annual	1	23	24	100	No
SO ₂	1-hr	<1	16	16	196	No
SO ₂	3-hr	<1	39 ^{2/}	39	1,300	No
SO ₂	Annual	<1	3	3	80	No
PM ₁₀	24-hr	2.8	35	37.8	150	No
PM _{2.5}	24-hr	1.0	30	31.0	35	No
PM _{2.5}	Annual	0.5	11.4	11.9	12	No

NOTES:

1/ The Incremental Peak concentration was determined by calculating the differences between the future Proposed Action Alternative and the future No Action Alternative scenarios at each receptor, then selecting the maximum value across all receptors.

2/ The 3-hour SO₂ background concentration was assumed to be the same as the highest 1-hour SO₂ background concentration.

SOURCE: CDM Smith, 2017.

PREPARED BY: Ricondo & Associates, Inc., February 2017.

Table 10: 2030 Proposed Action Alternative Concentrations

POLLUTANT	AVERAGING PERIOD	INCREMENTAL PEAK ($\mu\text{g}/\text{m}^3$) ^{1/}	BACKGROUND ($\mu\text{g}/\text{m}^3$)	TOTAL ($\mu\text{g}/\text{m}^3$)	THRESHOLD ($\mu\text{g}/\text{m}^3$)	EXCEEDS THRESHOLD?
CO	1-hr	61	3,565	3,626	40,000	No
CO	8-hr	31	2,778	2,809	10,000	No
NO ₂	1-hr	19	116	135	188	No
NO ₂	Annual	7	23	30	100	No
SO ₂	1-hr	<1	16	16	196	No
SO ₂	3-hr	<1	39 ^{2/}	39	1,300	No
SO ₂	Annual	<1	3	3	80	No
PM ₁₀	24-hr	3.1	35	38.1	150	No
PM _{2.5}	24-hr	1.0	30	31.0	35	No
PM _{2.5}	Annual	0.5	11.4	11.9	12	No

NOTES:

1/ The Incremental Peak concentration was determined by calculating the differences between the future Proposed Action Alternative and the future No Action Alternative scenarios at each receptor, then selecting the maximum value across all receptors.

2/ The 3-hour SO₂ background concentration was assumed to be the same as the highest 1-hour SO₂ background concentration.

SOURCE: CDM Smith, 2017.

PREPARED BY: Ricondo & Associates, Inc., February 2017.

Table 11: 2035 Proposed Action Alternative Concentrations

POLLUTANT	AVERAGING PERIOD	INCREMENTAL PEAK ($\mu\text{g}/\text{m}^3$) ^{1/}	BACKGROUND ($\mu\text{g}/\text{m}^3$)	TOTAL ($\mu\text{g}/\text{m}^3$)	THRESHOLD ($\mu\text{g}/\text{m}^3$)	EXCEEDS THRESHOLD?
CO	1-hr	49	3,565	3,614	40,000	No
CO	8-hr	25	2,778	2,803	10,000	No
NO ₂	1-hr	21	116	137	188	No
NO ₂	Annual	7	23	30	100	No
SO ₂	1-hr	<1	16	16	196	No
SO ₂	3-hr	<1	39 ^{2/}	39	1,300	No
SO ₂	Annual	<1	3	3	80	No
PM ₁₀	24-hr	3.1	35	38.1	150	No
PM _{2.5}	24-hr	1.0	30	31	35	No
PM _{2.5}	Annual	0.5	11.4	11.9	12	No

NOTES:

1/ The Incremental Peak concentration was determined by calculating the differences between the future Proposed Action Alternative and the future No Action Alternative scenarios at each receptor, then selecting the maximum value across all receptors.

2/ The 3-hour SO₂ background concentration was assumed to be the same as the highest 1-hour SO₂ background concentration.

SOURCE: CDM Smith, 2017.

PREPARED BY: Ricondo & Associates, Inc., February 2017.

6.4 Consistency with Requirements and Milestones in Applicable SIP

The General Conformity Regulations state that, notwithstanding the other requirements of the rule, a proposed action may not be determined to conform unless the total of direct and indirect emissions from the action is in compliance or consistent with all relevant requirements and milestones in the applicable SIP (40 CFR 93.158(c)). This includes but is not limited to such issues as reasonable further progress schedules, assumptions specified in the attainment or maintenance demonstration, prohibitions, numerical emission limits, and work practice standards. This section briefly addresses how the Proposed Action Alternative was assessed for SIP consistency for this evaluation.

6.4.1 APPLICABLE REQUIREMENTS FROM USEPA

USEPA has promulgated, and will continue to promulgate, numerous requirements to support the goals of the Clean Air Act with respect to the NAAQS. Typically, these requirements take the form of rules regulating emissions from significant new sources, including emission standards for major stationary point sources and classes of mobile sources as well as permitting requirements for new major stationary point sources. Since states have the primary responsibility for implementation and enforcement of requirements under the Clean

Air Act and can impose stricter limitations than USEPA, the USEPA requirements often serve as guidance to the states in formulating their air quality management strategies.

6.4.2 APPLICABLE REQUIREMENTS FROM CARB

In California, to support the attainment and maintenance of the NAAQS, CARB is primarily responsible for regulating emissions from mobile sources. In fact, USEPA has delegated authority to CARB to establish emission standards for on-road and some non-road vehicles separate from the USEPA vehicle emission standards, although CARB is preempted by the Clean Air Act from regulating emissions from many non-road mobile sources, including aircraft.

6.4.3 APPLICABLE REQUIREMENTS FROM SCAQMD

To support the attainment and maintenance of the NAAQS in the Basin, SCAQMD is primarily responsible for regulating emissions from stationary sources. As noted above, SCAQMD develops and updates its AQMP regularly to support the California SIP. While the AQMP contains rules and regulations geared to attain and maintain the NAAQS, these rules and regulations also have the much more difficult goal of attaining and maintaining the California ambient air quality standards.

6.4.4 CONSISTENCY WITH APPLICABLE REQUIREMENTS

In operating LAX, LAWA already complies with, and will continue to comply with, a myriad of rules and regulations implemented and enforced by federal, state, regional, and local agencies to protect and enhance ambient air quality in the Basin. In particular, due to the long persistence of challenges to attain the ambient air quality standards in the Basin, the rules and regulations promulgated by CARB and SCAQMD are among the most stringent in the U.S. LAWA will continue to comply with all existing applicable air quality regulatory requirements for activities over which it has direct control and will meet in a timely manner all regulatory requirements that become applicable in the future. Likewise, LAWA actively encourages all tenants and users of its facilities to comply with applicable air quality requirements.

6.5 Draft General Conformity Determination

As noted earlier, the general conformity applicability analysis shows that a General Conformity Determination is only required for NO_x emissions. As noted in the General Conformity Regulations, the approaches to demonstrating conformity with the SIP include:

1. A written determination from the State/local air quality agency stating that the project emissions, together with all other emissions in the non-attainment or maintenance area, would not exceed the emissions budget in the SIP.
2. A written commitment from the Governor, or the Governor's designee for SIP actions, to include the emissions in a revised SIP (this automatically results in a call for a SIP revision).
3. Offsetting or mitigating project emissions so that there is no net increase within the non-attainment or maintenance area.

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4. The applicable MPO determines that the emissions from the project, or portion thereof, are included in a conforming transportation plan and transportation improvement program.

Attachment B shows that SCAQMD has confirmed that a portion of the SIP General Conformity budget has been reserved for this project (avenue 1 above). In addition, portions of this project are also confirmed by SCAG as being within a conforming transportation plan (RTP). Therefore, the FAA has successfully shown that the LAX Landside Access Modernization Program will conform with the current approved SIP.

7. Public Participation

A General Conformity Determination has a publication process that is similar to the NEPA EA process (40 CFR Part 93.155 and 93.156). A draft General Conformity Determination must be issued with a 30-day agency and public comment period (similar to that which occurs on the Draft EA). Upon the responses to comments by the FAA, a Final General Conformity Determination is issued. Notices of the availability of the Draft and Final General Conformity Determination must be published in a daily newspaper of general circulation.

To meet the General Conformity Requirements, this Draft General Conformity Determination has been included as Appendix O to the Draft EA for the LAX Landside Access Modernization Program. In addition, a public notice of its availability has been published in a local newspaper along with the Draft EA notice of availability. This notification begins the public review and comment period on the Draft General Conformity Determination (minimum 30 days). Comments received on the Draft General Conformity Determination will be addressed and incorporated into a Final General Conformity Determination. The Final General Conformity Determination will be published concurrently with the Final EA.

8. Findings and Conclusions

As part of the environmental review of the LAX Landside Access Modernization Program, FAA is conducting a general conformity evaluation pursuant to 40 CFR 93 Subpart B. The General Conformity Regulations apply to actions at LAX requiring FAA financial support or approval, because the Basin where LAX is situated is a nonattainment area for O₃, PM_{2.5}, and Pb, and maintenance areas for CO, NO₂, and PM₁₀. FAA is conducting the general conformity evaluation following all regulatory criteria and procedures and in coordination with USEPA, CARB, SCAQMD, and SCAG. FAA is publishing this Draft General Conformity Determination for public review in June 2017.

Based on the analysis in this Draft General Conformity Determination, FAA proposes to conclude that the LAX Landside Access Modernization Program as designed conforms to the purpose of the approved SIP and is consistent with all applicable requirements.

Attachment A

Conformity Determination Methodology



1. General Conformity Determination Methodology

The air quality analysis conducted for the Los Angeles International Airport (LAX) Landside Access Modernization Program Draft General Conformity Determination addresses construction and operations emissions. Activities analyzed include efforts associated with construction and operations of the proposed landside improvements covered under the General Conformity Regulations of the Clean Air Act. The construction emissions generally include on-site and off-site construction equipment, fugitive dust, fugitive volatile organic compounds (VOCs), and worker vehicle trips that would occur during the construction period, estimated to be approximately 6 years in Phase 1 and up to 10 years in Phase 2. Operational sources specific to the LAX Landside Access Modernization Program have also been included in the Draft General Conformity Determination analysis, including ground access vehicles and busing operations.

1.1 Scope of Analysis

This section discusses the overall approach to the Draft General Conformity Determination air quality analysis, including: scenarios and years analyzed, types of analysis performed, and pollutants considered.

1.1.1 SCENARIOS/ANALYSIS YEARS

The air quality analysis conducted for the LAX Landside Access Modernization Program Draft General Conformity Determination addresses construction-related impacts for the approximately 6 years of proposed construction activities, and operations-related impacts for the future horizon year of 2024. The year 2024 represents completion of Phase 1 of the LAX Landside Access Modernization Program. The Phase 2 roadway elements are expected to be completed by 2030; thus, construction emissions were calculated for the 5-year construction period. The year 2030 analysis considers the operational effects of Phase 1 and Phase 2 roadway elements of the LAX Landside Access Modernization Program. A future year analysis of 2035 considers operational emissions five years after completion of the Program.

Analysis for the following years and conditions was conducted in the Draft General Conformity Determination:

- Future 2024
 - No Action – existing Airport facilities with regional and Airport activity levels associated with 2024.
 - Proposed Action – including the Phase 1 LAX Landside Access Modernization Program with 2024 regional and Airport activity levels
- Future 2030
 - No Action – existing Airport facilities with regional and Airport activity levels associated with 2030.
 - Proposed Action – including the Phase 1 LAX Landside Access Modernization Program and the Phase 2 roadway elements of the Landside Access Modernization Program with 2030 regional and Airport activity levels.
- Future 2035
 - No Action – existing Airport facilities with regional and Airport activity levels associated with 2035.
 - Proposed Action – including the Phase 1 LAX Landside Access Modernization Program and the Phase 2 roadway elements of the Landside Access Modernization Program with 2035 regional and Airport activity levels.

Additional analyses were performed to estimate construction emissions, the peak emission year, and other years specified in the State Implementation Plan (SIP).

1.1.2 POLLUTANTS OF INTEREST

Six criteria pollutants were evaluated in the air quality analysis for the Draft General Conformity Determination, namely carbon monoxide (CO), nitrogen dioxide (NO₂), ozone (O₃), particulate matter (PM₁₀), and fine particulate matter (PM_{2.5}). Although the South Coast Air Basin is designated as a federal nonattainment area for lead (Pb), it was not evaluated in the air quality analysis for the Draft General Conformity Determination, since no leaded fuel is provided at LAX by LAWA; therefore, the Proposed Action Alternative would have negligible impacts of lead levels in the South Coast Air Basin. Similarly, although sulfur dioxide (SO₂) is a criteria pollutant, as the South Coast Air Basin is in attainment for SO₂, and the proposed LAX Landside Access Modernization Program would not be a significant source of SO₂, it was not included in the Draft General Conformity Determination.

Following standard industry practice and USEPA guidance, the evaluation of O₃ was conducted by evaluating precursor pollutant emissions of VOC and nitrogen oxides (NO_x). O₃ is a secondary regional pollutant and ambient concentrations can only be predicted using regional photochemical models that account for all sources of precursors, which is beyond the scope of this analysis. Therefore, no photochemical O₃ modeling was conducted for this Draft General Conformity Determination.

1.2 Direct and Indirect Project Emission Inventory Methodology

The criteria pollutant emission inventories were developed using standard industry software/models and federal, State, and locally approved methodologies. Results of the emission inventories were compared to general conformity *de minimis* thresholds and emissions inventories and budgets included in the SIP.

It is important to note that, while FAA requires the use of the Aviation Environmental Design Tool (AEDT) for airport air quality evaluation, that tool is not usable for the type of development reflected in the LAX Landside Access Modernization Program. The AEDT focuses on emissions of aircraft and ground support equipment. Since the LAX Landside Access Modernization Program would not affect those sources, the LAX Landside Access Modernization Program Draft General Conformity Determination relied on other modeling tools that are available to evaluate ground access/on-road vehicle emissions. EMFAC2014 was used to quantify emissions from on-road sources, whereas construction emissions were quantified using the models listed in

Table 1.

Table 1: Construction Sources Pollutant and Emission Model Summary

CONSTRUCTION SOURCE	POLLUTANT	MODEL/REFERENCE
Off-Road Equipment	CO, SO ₂	OFFROAD2007, OFFROAD2011 ^{1/}
	VOC, NO _x , PM ₁₀	2011 Inventory Model (commonly referred to as OFFROAD2011) ^{2/}
	PM _{2.5}	CARB Speciation Profiles (& Size Distributions) ^{3/}
On-Road On-Site Equipment	CO, VOC, NO _x , PM ₁₀	EMFAC2014 ^{4/}
On-Road Off-Site Equipment	CO, VOC, NO _x , PM ₁₀	EMFAC2014 ^{4/}
Fugitive Dust	PM ₁₀ , PM _{2.5}	USEPA AP42 ^{5/}
Fugitive VOCs	VOC	CalEEMod ^{6/}

NOTES:

1/ California Air Resources Board, OFFROAD2007 Model, available: <http://www.arb.ca.gov/msei/documentation.htm> (accessed May 24, 2016).

2/ California Air Resources Board, 2011 Inventory Model for In-Use Off-Road Equipment, available: www.arb.ca.gov/msei/categories.htm#offroad_motor_vehicles (accessed May 24, 2016).

3/ South Coast Air Quality Management District, "Final – Methodology to Calculate Particulate Matter (PM) 2.5 and PM 2.5 Significance Thresholds," October 2006, available: <http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/pm-2-5-significance-thresholds-and-calculation-methodology> (accessed May 24, 2016); California Environmental Protection Agency, Air Resources Board, "Speciation Profiles Used in ARB Modeling," April 15, 2016, available: <http://www.arb.ca.gov/ei/speciate/speciate.htm#assnfrac> (accessed May 31, 2016).

4/ California Air Resources Board, EMFAC2014 Model, available: <http://www.arb.ca.gov/msei/categories.htm#emfac2014> (accessed May 24, 2016).

5/ U.S. Environmental Protection Agency, "Emissions Factors & AP 42, Compilation of Air Pollutant Emission Factors," available: <http://www.epa.gov/ttn/chief/ap42/index.html> (accessed May 24, 2016).

6/ California Air Pollution Control Officers Association, California Emissions Estimator Model (CalEEMod) Version 2013.2.2, prepared by ENVIRON International Corporation and the California Air Districts, available: <http://www.caleemod.com/> (accessed on May 24, 2016)

SOURCE: Ricondo & Associates, Inc., May 2016.

PREPARED BY: Ricondo & Associates, Inc., May 2016.

Mass emissions inventories were prepared for each year of construction; these inventories identified peak year construction emissions associated with completing Phase 1 of the proposed LAX Landside Access Modernization Program between 2018 and 2024. Mass emissions inventories were also prepared for 2025 through 2030 to determine the peak year construction emissions associated with Phase 2. Operational emissions were calculated for the future 2024, 2030, and 2035 Proposed Action and No Action Alternatives. The overview of the inventory process is provided below for both construction and operations.

Construction:

- Direct and indirect Project-related emissions:
 - Identify construction-related emissions sources that will likely be needed to build the LAX Landside Access Modernization Program.
 - Capture construction activities of site-preparation, construction of paved and concrete surfaces, building erection-related activities, material delivery, and construction employee work commute.
 - Prepare emissions inventory of construction emissions for all construction years.

Operations:

- Identify operational emission sources whose emissions would change due to the LAX Landside Access Modernization Program.
- Develop annual and daily operational emissions inventories for the identified sources.

Dispersion Analysis:

- A dispersion analysis was conducted for comparison to the National Ambient Air Quality Standards (NAAQS) to determine if the Proposed Action Alternative would create a new exceedance or exacerbate an existing exceedance.

1.2.1 CONSTRUCTION SOURCES

Emissions inventories were prepared for CO, VOC, NO_x, SO₂, PM₁₀, and PM_{2.5} for the following construction activities:

- Off-Road On-Site Equipment
- On-Road On-Site Equipment
- On-Road Off-Site Equipment
- Fugitive Dust
- Fugitive VOCs

To estimate construction emissions, resource requirements and activity schedules were developed by LAWA. The construction activity data includes types and specifications for both on-road and off-road construction equipment, and total operating hours by equipment type by month for each applicable construction activity/project. Equipment specifications include equipment type, manufacturer, model, capacity,

horsepower, fuel consumption, and fuel type, as appropriate. Using this data, monthly, quarterly, and annual construction emissions estimates were developed. Peak month average day emissions estimates were developed by identifying the peak month of construction emissions and dividing the emissions by the number of days in that month.

A summary of construction source pollutants and models/references used is shown in Table 1.

1.2.1.1 Off-Road On-Site Equipment Emissions Inventory

Off-road construction equipment includes dozers, loaders, sweepers, and other heavy-duty construction equipment that is not licensed for travel on public roadways. Using a compiled listing of all off-road construction equipment types, models, and horsepower ratings, emission rates were obtained/derived from the sources shown in Table 1.

Daily emission inventories for off-road equipment were calculated by multiplying the appropriate emission factor by the horsepower, load factor, and daily operational hours for each type of equipment as shown in **Equation 1**.

Equation 1: Off-Road On-Site Equipment Emissions

$$E = HP \times L \times n \times H \times EF$$

Where:

E = emissions (lb/day)

HP = project equipment horsepower

L = load factor

n = number of pieces of equipment in a specified equipment category

H = hours per day of equipment operation

EF = emission factor (lb/hp-hr)

SOURCE: Ricondo & Associates, Inc., January 2015.

PREPARED BY: Ricondo & Associates, Inc., January 2015.

1.2.1.2 On-Road On-Site Equipment Emissions Inventory

On-road on-site equipment includes shuttle vans transporting construction employees from the employee parking areas to the construction site, on-site pickup trucks, crew vans, water trucks, dump trucks, haul trucks and other on-road vehicles (i.e., vehicles licensed to travel on public roadways). Exhaust emissions from on-road on-site sources were calculated using peak construction year emission factors for CO, VOC, NO_x, PM₁₀, and PM_{2.5} from CARB's emission factor model EMFAC2014.

[DRAFT]

On-road on-site equipment types from the Proposed Action Alternative construction schedule were matched with vehicle types corresponding to EMFAC2011 vehicle classes.¹ Other factors including region, calendar year, season, model year, speed and fuel type were also selected for each equipment type. The EMFAC2014 model outputs emission rates (grams/mile) for each equipment type. To calculate the total emissions, roundtrip distances for on-site travel were determined for each equipment category and substituted into **Equation 2** shown below. The EMFAC factors account for start-up, running and idling. In addition, VOC emission factors include diurnal, hot soak, running, and resting emissions, and the PM₁₀ and PM_{2.5} factors include tire and brake wear.

Equation 2: On-Road On-Site Equipment Emissions

$$E = VMT \times EF$$

Where:

E = emissions (lb/day)

VMT = vehicle miles traveled per day

EF = emission factor (lb/mile)

SOURCE: Ricondo & Associates, Inc., January 2015.

PREPARED BY: Ricondo & Associates, Inc., January 2015.

1.2.1.3 On-Road Off-Site Equipment Emissions Inventory

On-road off-site trip types identified in the construction schedule include personal vehicles used by construction employees to access the construction employee parking areas, and also include equipment and material delivery/haul vehicles. Emissions from these trips were calculated using EMFAC2014 for all criteria pollutants. An assumption of workers per crew and vehicle miles traveled (VMT) per day were based on the Proposed Action construction schedule. In general, the EMFAC2014 emissions factors were multiplied by the total VMT for each vehicle type to obtain emissions in pounds per day, similar to Equation 2.

Construction-worker vehicle emissions include: vehicle exhaust, tire wear, brake wear, and paved road dust using South Coast Air Quality Management District (SCAQMD) default assumptions for vehicle fleet mix, travel distance, and average travel speeds.

¹ Although EMFAC2014 is the current release of the model, the vehicle classes are based on either EMFAC2007 or EMFAC2011; therefore, EMFAC2011 vehicle classes are the most recent versions.

1.2.1.4 Fugitive Dust

Additional sources of PM₁₀ and PM_{2.5} emissions associated with construction activities are related to fugitive dust. Fugitive dust includes re-suspended road dust from both off- and on-road vehicles, dust from grading, loading and unloading, hauling and storage activities, as well as rock crushing operations and batch plants. Fugitive dust emissions (PM₁₀ and PM_{2.5}) were calculated using the guidance from the USEPA's Compilation of Air Pollutant Emission Factors (AP-42)² and SCAQMD's California Environmental Quality Act (CEQA) Air Quality Handbook.³ Fugitive dust emissions were calculated as outlined in AP-42 for the following construction activities:

- Vehicles traveling on paved roads. All haul trucks, flatbed trucks, and automobiles were assumed to travel on paved roads.
- On-site construction activities (grading, crushing, loading, hauling and storage) were calculated based on LAWA's current Title V permit for batch plants. The emissions were calculated based on construction material demand using the emissions equation in the permit. Operations activities of an on-site construction batch plant, if applicable.
- An on-site rock crusher. An overall emission factor was derived by summing emission factors for crushing activities including tertiary crushing, fines crushing, and screening, if applicable.

Monthly fugitive dust emissions were calculated for each piece of construction equipment or construction activity, from which annual and daily fugitive dust emissions were determined.

1.2.1.5 Fugitive VOCs (Paving and Painting)

Construction materials that can be sources of VOC emissions include hot-mix asphalt paving, parking lot striping, and architectural coating. VOC emissions from asphalt paving operations result from the evaporation of the petroleum distillate solvent, or diluent, used to liquefy asphalt cement. Asphalt paving emissions were calculated using the SCAQMD recommended approach included in the CalEEMod model.

1.2.2 OPERATIONAL SOURCES

Operational emissions provide an indication of the changes in emissions that completing and operating the Proposed Action Alternative would have when comparing operational emissions without the LAX Landside Access Modernization Program.

The FAA's Terminal Area Forecast for LAX, published in January 2016, forecasts demand for air travel in 2024, 2030, and 2035 at LAX. The forecast predicts an increase in total aircraft activity and total passenger activity at LAX. Implementation of the LAX Landside Access Modernization Program would not increase the number of

² U.S. Environmental Protection Agency, AP-42 - Compilation of Air Pollutant Emission Factors, Fifth Edition, 1995; as updated at <https://www3.epa.gov/ttn/chief/ap42/index.html>.

³ South Coast Air Quality Management District, CEQA Air Quality Handbook, 1993 and on-line updates.

flights or type of aircraft using the airfield because it only affects landside development and efficiency of the landside/roadway system. The LAX Landside Access Modernization Program would also not result in changes to air traffic flight patterns or aircraft taxi patterns. Finally, the LAX Landside Access Modernization Program would not change the number of passengers at LAX; it would only change how they access the airport and terminal facilities.

Therefore, changes in surface vehicle traffic patterns and trips that would occur because of the LAX Landside Access Modernization Program facilities, as well as emissions from new stationary facilities and energy demand for the proposed LAX Landside Access Modernization Program facilities, are the only operational sources that were analyzed for impacts.

Daily and annual emissions were calculated for each source for future years 2024, 2030, and 2035 for the Proposed Action and No Action conditions.

1.2.2.1 Mobile Sources

Mobile sources include on-road vehicles. On-road vehicles include the automobiles, trucks, buses, and other motor vehicles that operate on the public roadways and in the parking areas at and near LAX.

No direct criteria pollutant emissions would occur from operation of the automated people mover; rather, emissions would occur from off-airport utility plant operations necessary to support the additional electricity demand. The method for estimating these emissions is discussed below in Section 1.2.2.2.

On-Road Vehicles

All surface vehicles traveling to or from LAX were considered in the air quality analysis for the Draft General Conformity Determination, including: privately-owned vehicles, government-owned vehicles, and commercially-owned vehicles, such as rental cars, shuttles, buses, taxicabs, and trucks. Temporal data that identifies the vehicle volumes by hour for traffic and on-airport parking was determined from the transportation analysis developed for the EA.

Assumptions to be used for these vehicles are:

- Emissions from passenger, employee, and cargo delivery trips were calculated using Los Angeles County average fleet emission factors per mile obtained from EMFAC2014.
- VMTs were obtained from the traffic analysis to be prepared as part of the LAX Landside Access Modernization Program EA.
- The emission factors were multiplied by the total annual forecast VMTs for the 2024, 2030, and 2035 Proposed Action and No Action conditions.

1.2.2.2 Stationary Sources

Stationary sources include fixed combustion equipment (e.g., small package plants and natural gas space heaters and water heaters) and incremental electricity demand. Both were analyzed in the Draft General Conformity Determination.

It is anticipated that the LAX Landside Access Modernization Program electrical demand as well as heating and cooling demands would be provided by grid based power (such as from the Los Angeles Department of Water and Power). CalEEMod⁴ was used to develop an emissions inventory, including emissions for small package plants, for new buildings assumed to be constructed on property used for construction laydown and staging areas during construction of the LAX Landside Access Modernization Program.

1.3 Dispersion Analysis

Dispersion is the process by which atmospheric pollutants disseminate due to wind and vertical instability. Air dispersion modeling is used to predict ground-level ambient air concentrations of pollutants in the vicinity of known air emission sources. The results of a dispersion analysis are used to assess pollutant concentrations at or near an airport. The base data for the dispersion analysis are the emissions inventories described in Section 1.2.2 above, meteorological data that define the wind speeds and direction in the vicinity of LAX, and air pollutant concentrations at monitoring locations where the ground level concentrations were calculated.

Air dispersion modeling was used to predict pollutant concentrations for operational sources for the 2024, 2030, and 2035 Proposed Action and No Action conditions. Predicted concentrations resulting from the LAX Landside Access Modernization Program were calculated for the following criteria pollutants: CO, NO₂, PM₁₀, PM_{2.5}, and SO₂. Incremental Proposed Action Alternative pollutant concentrations were added to background ambient concentrations and the resulting summations were compared to the NAAQS ambient air quality standards. Incremental Proposed Action Alternative pollutant concentrations were developed using incremental emissions of the Proposed Action Alternative minus the No Action Alternative for 2024, 2030, and 2035.

1.3.1 MODELS/ANALYSIS

Dispersion modeling of on-airport construction, mobile and stationary sources, and off-airport mobile emissions, was conducted using the most current EPA-approved American Meteorological Society (AMS)/EPA Regulatory Model (AERMOD) air dispersion model. Model inputs/assumptions include:

⁴ California Air Pollution Control Officers Association, California Emissions Estimator Model (CalEEMod) Version 2013.2.2, prepared by ENVIRON International Corporation and the California Air Districts, available: <http://www.caleemod.com/> (accessed on May 24, 2016).

- The averaging periods selected in AERMOD for each pollutant are based on the South Coast Air Basin's attainment status and averaging periods in the NAAQS.
- The equipment used on the construction site and staging areas and the equipment transfer and haul trucks were included in the dispersion modeling of all pollutants.
- The fugitive dust generated by these sources was included in the PM₁₀ and PM_{2.5} analyses.
- The Ozone Limiting Method (OLM) with 5 years of meteorological data (see below) and associated five years of hourly ozone data provided by SCAQMD was used to quantify NO₂ emissions from NO_x emissions.
- The meteorological data discussed in the following section was used for this analysis.

1.3.2 METEOROLOGY

Five years of the most recent site-specific National Weather Service (NWS) hourly surface data was used in the modeling to determine the meteorological conditions that would lead to peak concentrations (2015).⁵ The meteorological data for the NWS LAX site is available from the National Oceanic and Atmospheric Administration (NOAA) National Centers for Environmental Information (NCEI), formerly the National Climatic Data Center website. This data was preprocessed along with Automated Surface Observing System (ASOS) 1-minute wind data using AERMET. AERMET is a meteorological preprocessor for organizing available meteorological data into a format suitable for use in the AERMOD air quality dispersion model. The dataset is comprised of hourly surface data collected at LAX for 2011 through 2015; the data includes ambient temperature, wind speed, wind direction, and atmospheric stability parameters, as well as mixing height parameters from the appropriate upper air station. The site-specific datasets were used to model pollutant concentrations for comparisons to the NAAQS.

1.3.3 SOURCE/RECEPTOR LOCATIONS

Receptor points are the geographic locations where the air dispersion model will calculate air pollutant concentrations. These receptor locations were placed in areas where the general public has unrestricted access near the Proposed Action. Receptors were placed at reasonable distances from the Proposed Action sources, outside of any fencing or other access restrictions. Modeled concentrations at these locations would therefore be higher than concentrations modeled farther away from the Proposed Action. Based on assessing the change in surface traffic volumes of the 183 intersections analyzed in the Traffic Study completed for the LAX Landside Access Modernization Program EIR, the air quality analysis completed for the CEQA process determined that emission increases with the Proposed Action were only occurring in a much limited area. Thus, LAWA completed the air quality analysis for the Draft General Conformity Determination using the focused Study Area and 5 years of meteorological data. **Figure 1** identifies the Air Quality Study Area for the General Conformity analysis.

⁵ In accordance with 40 CFR Appendix W to Part 51, July 1, 2011, available: <http://www.gpo.gov/fdsys/granule/CFR-2011-title40-vol2/CFR-2011-title40-vol2-part51-appW> (Accessed December 30, 2014).

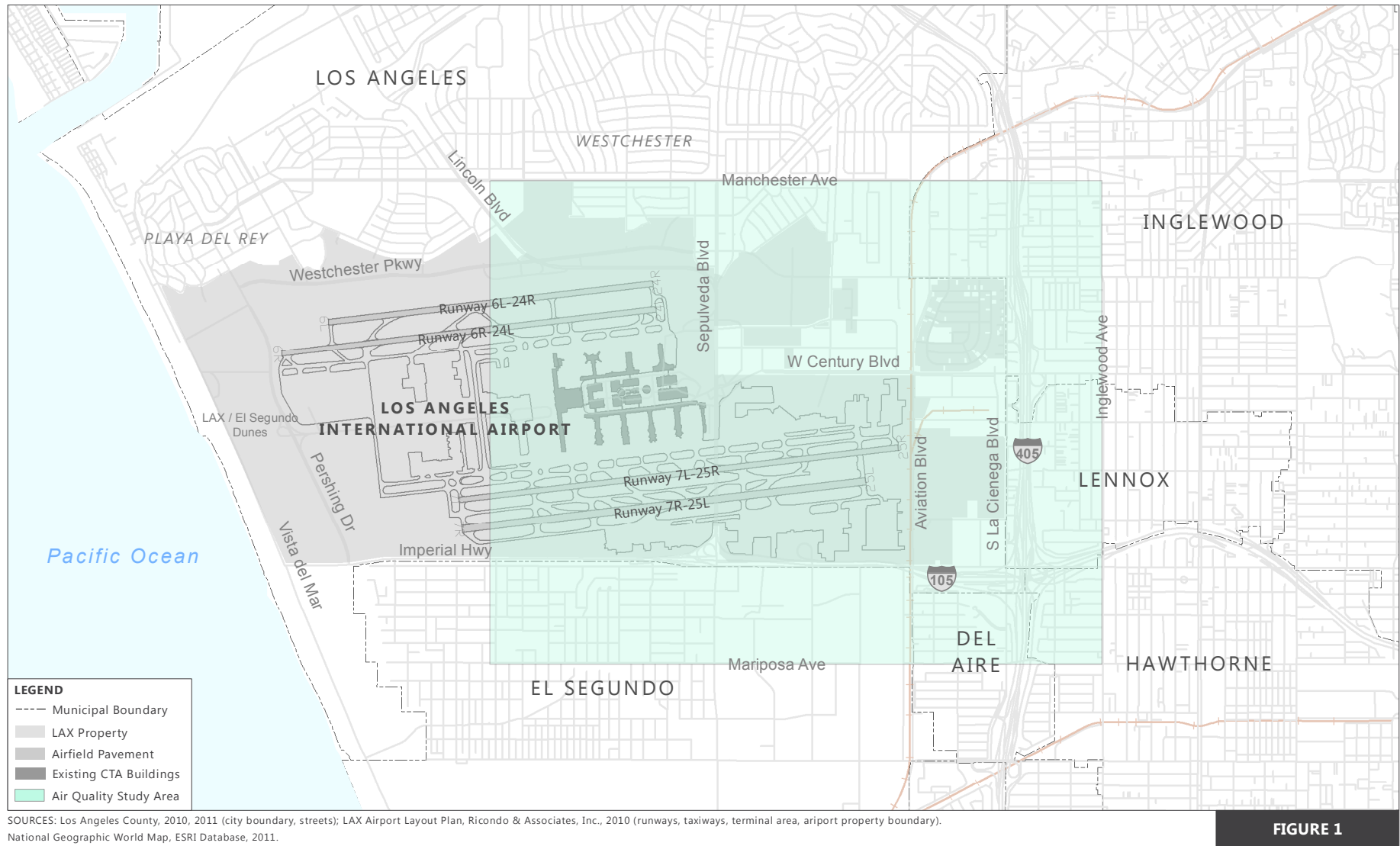


FIGURE 1

Air Quality Study Area



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[DRAFT]

Up to 1,000 receptor locations at an assumed height of 0 meters (ground level) were used for this air quality impact analysis; including receptors located at off-airport locations near the Proposed Action Alternative. National Elevation Dataset (NED) files that cover the modeling domain were downloaded from the U.S. Geological Survey (USGS) website. These files were processed in AERMAP to provide terrain elevations for sources and receptors.

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Attachment B

SCAQMD Letter to LAWA (May 10, 2016)





**South Coast
Air Quality Management District**

21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

May 10, 2016

Ms Lisa Trifiletti
Deputy Executive Director
Environmental Programs Group
Los Angeles World Airports
P.O. Box 92216
Los Angeles, CA 90009-2216

Dear Ms. Trifiletti,

Thank you for meeting with South Coast Air Quality Management District (SCAQMD) staff and providing us with the anticipated construction emissions for NO_x and VOC (dated May 3, 2016 and attached) for Phase I of the LAX Landside Access Modernization Program (LAMP) for general conformity purposes.

The conformity determination process is intended to demonstrate that a proposed Federal action will not: (1) cause or contribute to new violations of a national ambient air quality standard (NAAQS); (2) interfere with provisions in the applicable SIP for maintenance of any NAAQS; (3) increase the frequency or severity of existing violations of any standard; or (4) delay the timely attainment of any standard.

The South Coast Air Basin (Basin) is designated as extreme non-attainment for ozone and serious non-attainment for PM_{2.5}. To streamline the review process and to facilitate conformity determinations for projects in the Basin, two separate VOC and NO_x general conformity budgets were established in the Final 2012 AQMP: 1 tpd of NO_x and 0.2 tpd of VOC were set aside for this purpose every year, starting in 2013 until 2030, from the projected emission growth in the Final 2012 AQMP. SCAQMD has set up a tracking system for projects requiring conformity determinations on a first come first serve basis, whereby the project emissions are debited from the applicable set aside accounts until they are depleted.

SCAQMD staff has reviewed the construction emissions submitted for the LAMP and determined that the NO_x and VOC emissions from 2017 through 2023 can be accommodated within the General Conformity Budgets established in the Final 2012 AQMP. Therefore, the project will conform to the SIP and is not expected to result in any new or additional violations of the NAAQS or impede the projected attainment of the standards.

If you have any questions, please contact me at (909) 396-2239 or pfine@aqmd.gov.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Fine', with a long horizontal flourish extending to the right.

Philip M. Fine, Ph.D.
Deputy Executive Officer
Planning, Rule Development & Area Sources
South Coast Air Quality Management District

IM:JW
Attachment

cc: Tom Kelly, US EPA Region IX
Barbara Baird, SCAQMD
Henry Hogo, SCAQMD
Sang-Mi Lee, SCAQMD



Los Angeles
World Airports

May 3, 2016

Dr. Philip Fine
Deputy Executive Officer
Planning, Rule Development and Area Source Division
South Coast Air Quality Management District
21865 Copley Drive
Diamond Bar, California 91765

LAX

LA/Ontario

Van Nuys

City of Los Angeles

Eric Garcetti
Mayor

Board of Airport
Commissioners

Sean O. Burton
President

Valeria C. Velasco
Vice President

Jeffery J. Daar
Gabriel L. Eshaghian
Beatrice C. Hsu
Nolan V. Rollins
Dr. Cynthia A. Telles

Deborah Flint
Chief Executive Officer

Subject: Los Angeles International Airport Landside Access Modernization Program
Construction Emissions

Dear Dr. Fine:

Thank you for discussing the general conformity process under the approved 2012 Air Quality Management Plan (AQMP) with us last Friday, April 29, 2016.

Attached, please find summary tables of anticipated LAX Landside Access Modernization Program (LAMP) construction NOx and VOC emissions for Phase I of the LAMP (see Table 3). These annual estimates, in tons per year, assume that the fleet average emissions from off-road construction equipment will meet the Tier 3 NOx and VOC Standards, and the fleet average on-road haul and delivery trucks will achieve a 1.2 grams NOx per mile and 0.14 gram VOC per mile emission rates with 2007 and later model year vehicles. In addition, these estimates do not include emissions from those elements currently known to require a project-level transportation conformity determination by the Federal Highway Administration or Federal Transit Administration. Improvements to the I-405 on- and off-ramps at S. La Cienega Boulevard and the improvements associated with the I-105 and Aviation Boulevard exit ramps are not included in the attached calculations.

We respectfully request that AQMD determine that these emissions are included in the General Conformity Budgets identified in the Final 2012 AQMP (Appendix III, Chapter 2). Please contact me with any other questions at (424) 646-5186.

Sincerely,

Lisa Trifiletti
Deputy Executive Director
Environmental Programs Group

LT:dke

Attachment

cc: H. Hogo, South Coast AQMD
J. Wong, South Coast AQMD



ATTACHMENT

Table 1. Summary of LAX LAMP Construction NOx Emissions Subject to General Conformity

Emission Source	NOx Emissions, tons per year						
	2017	2018	2019	2020	2021	2022	2023
Off-Road, On-Site Equipment ^a	56	94	105	124	82	37	30
On-Road, On-Site Trucks ^b	8	18	21	16	11	7	6
On-Road, Off-Site Haul & Deliveries ^b	16	45	59	51	22	15	13
On-Road, Off-Site Worker Trips	2	7	8	6	7	4	4
Total	82	164	194	198	122	63	53

- a. Assumes the fleet average emissions from off-road construction equipment meets the Tier 3 NOx Standards.
b. Assumes the fleet average emissions from on-road trucks meets the phased-in 2007 model year NOx standard (~1.2 g/mile).

Table 2. Summary of LAX LAMP Construction VOC Emissions Subject to General Conformity

Emission Source	VOC Emissions, tons per year						
	2017	2018	2019	2020	2021	2022	2023
Off-Road, On-Site Equipment ^a	3	5	6	7	4	2	2
On-Road, On-Site Trucks ^b	2	8	13	18	16	10	9
On-Road, Off-Site Haul & Deliveries ^b	1	2	3	3	1	1	1
On-Road, Off-Site Worker Trips	4	17	19	15	16	11	9
Total	10	32	41	42	37	23	21

- a. Assumes the fleet average emissions from off-road construction equipment meets the Tier 3 VOC Standards.
b. Assumes the fleet average emissions from on-road trucks meets the phased-in 2007 model year VOC standard (0.14 g/mile).

Table 3. Phase 1 LAX LAMP Project Elements

Automated People Mover (APM) System including guideway, 6 APM stations, maintenance and storage facility and APM power substations
Consolidated Rental Car Facility
Intermodal Transportation Facility West
Intermodal Transportation Facility East
- Roadway Improvements - New 'A' Street (W. Century Boulevard to Westchester Parkway/W. Arbor Vitae Street) - New 'B' Street (New 'A' Street to Airport Boulevard) W. 96th Street (Airport Boulevard to Bellanca Avenue) - New 'D' Street (W. 96th Street to W. Arbor Vitae Street) W. Arbor Vitae Street (Airport Boulevard to S. La Cienega Boulevard) - Aviation Boulevard (W. Century Boulevard to W. Arbor Vitae Street) S. La Cienega Boulevard (W. Century Boulevard to W. Arbor Vitae Street) - New W. 98th Street (Aviation Boulevard to S. La Cienega Boulevard) - Concourse Way (W. Century Boulevard to Arbor Vitae Street) - Southbound S. Sepulveda Boulevard to World Way (departures and arrivals) Ramp - Airport Boulevard (W. 98th Street to W. Arbor Vitae Street) W. 98th Street (Airport Boulevard to Aviation Boulevard) W. Century Boulevard (New 'A' Street to Aviation Boulevard)
Various enabling projects including utility relocations

