

PM Conformity Hot Spot Analysis – Project Summary for Interagency Consultation

<b>RTIP ID#</b> <i>(required)</i> Project will be submitted under a SHOPP lump-sum category.									
<b>TCWG Consideration Date</b> July 26, 2011									
<b>Project Description</b> <i>(clearly describe project)</i>									
The Northbound Carson Commercial Vehicle Enforcement Facility was partially destroyed in a major traffic collision in August 2001, and has been minimally operational since then. Repair/renovation is proposed in order to ensure that the facility becomes fully operational. Proposed improvements include repaving inspection lanes, marking inspection lanes and parking, building covered inspection area, constructing scale building with work space locker room, building associated amenities, creating parking and traffic lanes behind and on both sides of building, replacing electrical equipment, and landscaping. All work will be performed within the State right-of-way. See attached sheet L-1 for layout.									
<b>Type of Project</b> <i>(use Table 1 on instruction sheet)</i>									
Truck weight/inspection station									
<b>County</b> Los Angeles	<b>Narrative Location/Route &amp; Postmiles</b> City of Carson, on northbound I-405 between Avalon Boulevard and Main Street, PM11.7/11.9. See attached project location maps.								
	<b>Caltrans Projects – EA#</b> 28850								
<b>Lead Agency:</b> Caltrans									
<b>Contact Person</b> Andrew Yoon	<b>Phone#</b> 213-897-6117	<b>Fax#</b> 213-897-1634	<b>Email</b> andrew.yoon@dot.ca.gov						
<b>Hot Spot Pollutant of Concern</b> <i>(check one or both)</i> <b>PM2.5</b> <input checked="" type="checkbox"/> <b>PM10</b> <input checked="" type="checkbox"/>									
<b>Federal Action for which Project-Level PM Conformity is Needed</b> <i>(check appropriate box)</i>									
<input checked="" type="checkbox"/>	<b>Categorical Exclusion (NEPA)</b>	<input type="checkbox"/>	<b>EA or Draft EIS</b>	<input type="checkbox"/>	<b>FONSI or Final EIS</b>	<input type="checkbox"/>	<b>PS&amp;E or Construction</b>	<input type="checkbox"/>	<b>Other</b>
<b>Scheduled Date of Federal Action:</b> January 2012									
<b>NEPA Delegation – Project Type</b> <i>(check appropriate box)</i>									
<input type="checkbox"/>		<input checked="" type="checkbox"/>		<input type="checkbox"/>					
<b>Exempt</b>		<b>Section 6004 – Categorical Exemption</b>		<b>Section 6005 – Non-Categorical Exemption</b>					
<b>Current Programming Dates</b> <i>(as appropriate)</i>									
	<b>PE/Environmental</b>	<b>ENG</b>	<b>ROW</b>	<b>CON</b>					
<b>Start</b>	06/15/2011	05/05/2011	04/29/2011	08/23/2013					
<b>End</b>	01/04/2012	12/28/2012	06/20/2012	03/28/2014					

**Project Purpose and Need (Summary):**

The Carson Commercial Vehicle Inspection Facility was the primary inspection site for commercial vehicles leaving the greater Los Angeles harbor region. Due to a major traffic collision in August 2001, the facility was partially destroyed. The facility is currently in operation with only partial functions. Without the facility fully operational, carriers traversing from the Ports of Los Angeles and Long Beach do not have a nearby feasible location to handle inspection, citation sign-offs, or re-inspection. Repair/replacement is proposed to resume the full operation. In addition, most of the electronic and electrical equipment used in the facility need to be replaced with modern technologies in order to effectively improve the facility's performance. The project would also increase the efficiency of the facility and provide a comfortable workplace for the on-duty CHP personnel.

The project will involve installation of Adaptable Radiation Area Monitor (ARAM), which would enable CHP personnel to scan vehicles for a number of security related concerns including radiation. The project is deemed essential by the US Department of Homeland Security.

**Surrounding Land Use/Traffic Generators** *(especially effect on diesel traffic)*

The project site is surrounded by some vacant lots; the Dominguez Channel to the north and east; and I-405 to the south and immediate west. Beyond the channel to the north lies the Los Angeles County Victoria Golf Course, and to the east and southeast lie some commercial developments and shops. Beyond the I-405 to the northwest lies Dominguez Golf Course; and to the south and west lies graded vacant land zoned for future marketplace development. There is no industrial land use in the vicinity of the project site that may result in truck traffic.

Potentially sensitive land uses around the project includes Micro Plus Learning Center and Eternal World Christian Center located more than 1,000 feet to the east, and Golden Wings Academy located more than 1,200 feet to the southeast. The closest residential developments to the project site are located more than 1,700 feet to the northeast, south, and southwest. The closest school is located over one mile to northeast; closest hospital is located over 1.7 miles to southwest. A map of the general land use/sensitive receptors is attached.

**Opening Year: Build and No Build LOS, AADT, % and # trucks, truck AADT of proposed facility**

Number of trucks expected to use the facility is 144 per day.

Note: The daily volume is based on the maximum capacity of the proposed inspection facility and thus remains constant in the future years.

**RTP Horizon Year / Design Year: Build and No Build LOS, AADT, % and # trucks, truck AADT of proposed facility**

Number of trucks expected to use the facility is 144 per day.

Note: The daily volume is based on the maximum capacity of the inspection facility and thus remains constant in the future years.

**Opening Year: If facility is an interchange(s) or intersection(s), Build and No Build cross-street AADT, % and # trucks, truck AADT**

2014	AM Peak Period	Mid Day	PM Peak Period	Night Time	Daily
<b>Light-Duty Vehicles</b>	26,274	38,400	36,987	23,087	124,748
<b>Heavy-Duty Vehicles</b>	974	2,763	1,502	2,212	7,451
<b>Total Vehicles</b>	27,248	41,163	38,489	25,299	132,199
<b>Truck Percent</b>	3.6%	6.7%	3.9%	8.7%	5.6%

Note: the traffic volume is for the NB I-405 mainline at PM 12.5 (Main Street). The traffic volume on the NB I-405 mainline is expected to remain the same for the Build and No-Build.

**RTP Horizon Year / Design Year: If facility is an interchange (s) or intersection(s), Build and No Build cross-street AADT, % and # trucks, truck AADT**

2035	AM Peak Period	Mid Day	PM Peak Period	Night Time	Daily
<b>Light-Duty Vehicles</b>	25,850	37,952	37,181	23,935	124,918
<b>Heavy-Duty Vehicles</b>	1,179	3,363	1,638	2,445	8,626
<b>Total Vehicles</b>	27,029	41,316	38,819	26,380	133,544
<b>Truck Percent</b>	4.4%	8.1%	4.2%	9.3%	6.5%

Note: the traffic volume is for the NB I-405 mainline at PM 12.5 (Main Street). The traffic volume on the NB I-405 mainline is expected to remain the same for the Build and No-Build.

**Describe potential traffic redistribution effects of congestion relief (*impact on other facilities*)**

The proposed project is not anticipated to impact other roadway facilities in the vicinity of the project. Traffic redistribution is not anticipated except for drawing a small percentage of mainline truck traffic to the weight/inspection facility and then putting them back on to the mainline.

**Comments/Explanation/Details** *(attach additional sheets as necessary)*

40 CFR 93.123(b)(1) lists five types of projects that would require a qualitative PM<sub>2.5</sub> or PM<sub>10</sub> hot-spot analysis. The proposed project does not fall under any of these five types of projects.

The project does not propose to construct a new truck inspection facility; rather, the project proposes to repair/rehabilitate an existing commercial vehicle inspection facility. Currently, the facility is partially operational, handling approximately 80 trucks (ranging from 2 axles to 5 axles) per day for minor inspection and citation. Caltrans Design estimates that the facility will be used by a maximum of approximately 144 trucks per day. The actual number of trucks will be determined at the discretion of CHP and is anticipated to be less than the maximum estimate of 144 trucks per day.

The proposed facility will be designed with an automated signal to direct truck drivers to continue traveling on the NB I-405 when the queuing truck traffic has reached the maximum capacity of the ramp to the facility. The automated signal is proposed to discourage truck traffic from backing up onto the mainline, preventing deterioration of the mainline operations. Also, the traffic exiting from the facility is planned to be metered, so that mainline traffic flow is minimally affected.

The immediate area surrounding the proposed facility includes vacant lot, the Dominguez Channel, and golf course. The commercial land use dominates areas farther out with the closest sensitive land use (Micro Plus Learning Center, Eternal World Christian Center, and Golden Wings Academy) located farther than 1,000 feet from the proposed project. There are no sensitive land uses within the 500 feet of the proposed project. The closest residential developments are located over 1,700 feet from the proposed project.

Based on the discussion above, the proposed project: does not significantly increase or involve significant number of diesel vehicles; and is not located in close proximity to any sensitive receptors. As a result, the proposed project is not considered to be of air quality concern for PM<sub>10</sub> and PM<sub>2.5</sub>, and the CAA and 40 CFR 93.116 requirements are deemed to have been met without a detailed hot-spot analysis.

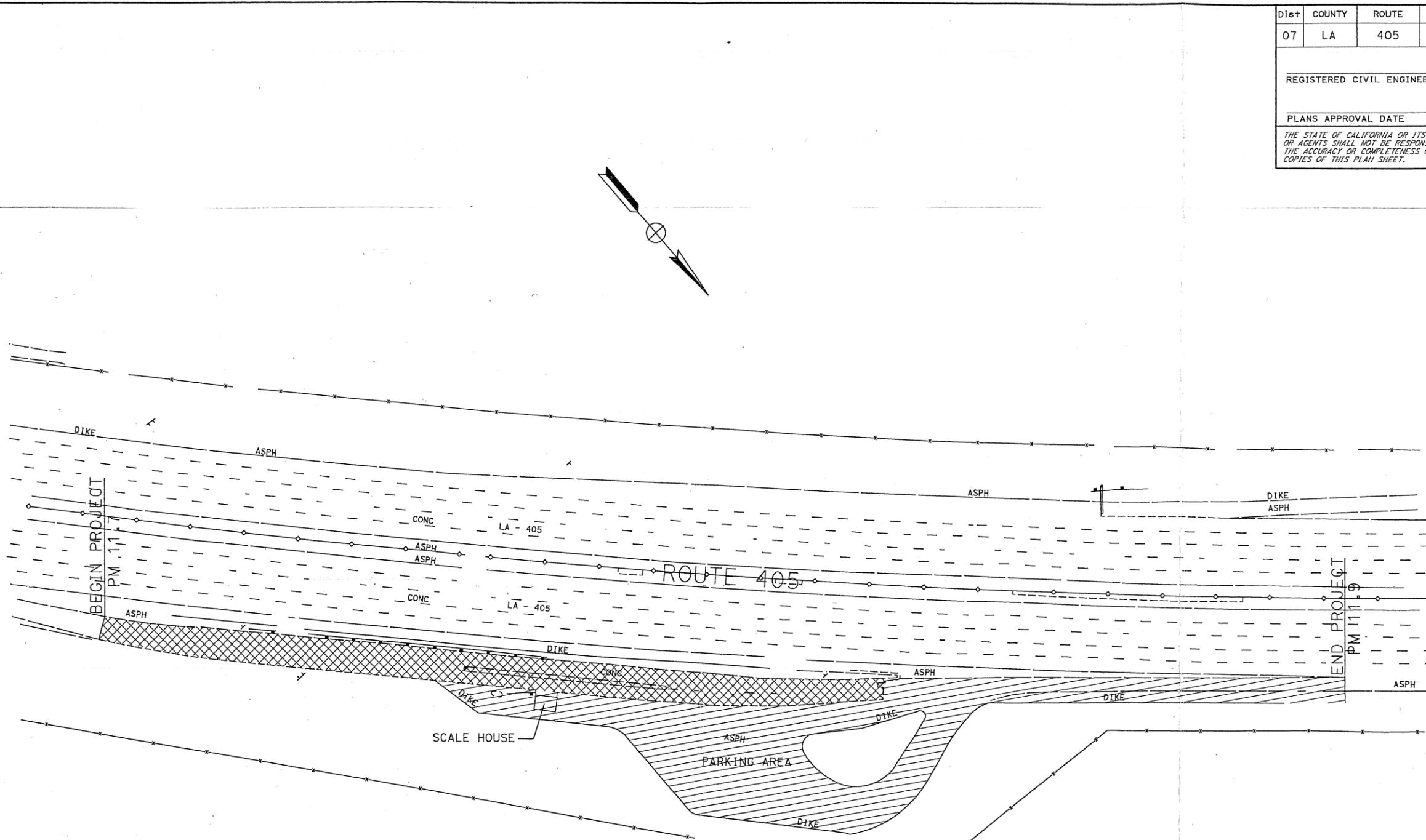
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR  
 MOHAMMED CHOWDHURY

REVISOR  
 SULIASTI SUTANTO

DESIGNER  
 CALCULATED-DESIGNED BY  
 CHECKED BY

REVISIONS  
 REVISION NO. DATE REVISIONS



- LEGEND:**
-  REPLACE EXIST PCC WITH JPCP (JOINTED PLAIN CONCRETE PAVEMENT)
  -  REPLACE EXIST AC WITH JPCP

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	11.7/11.9		

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_

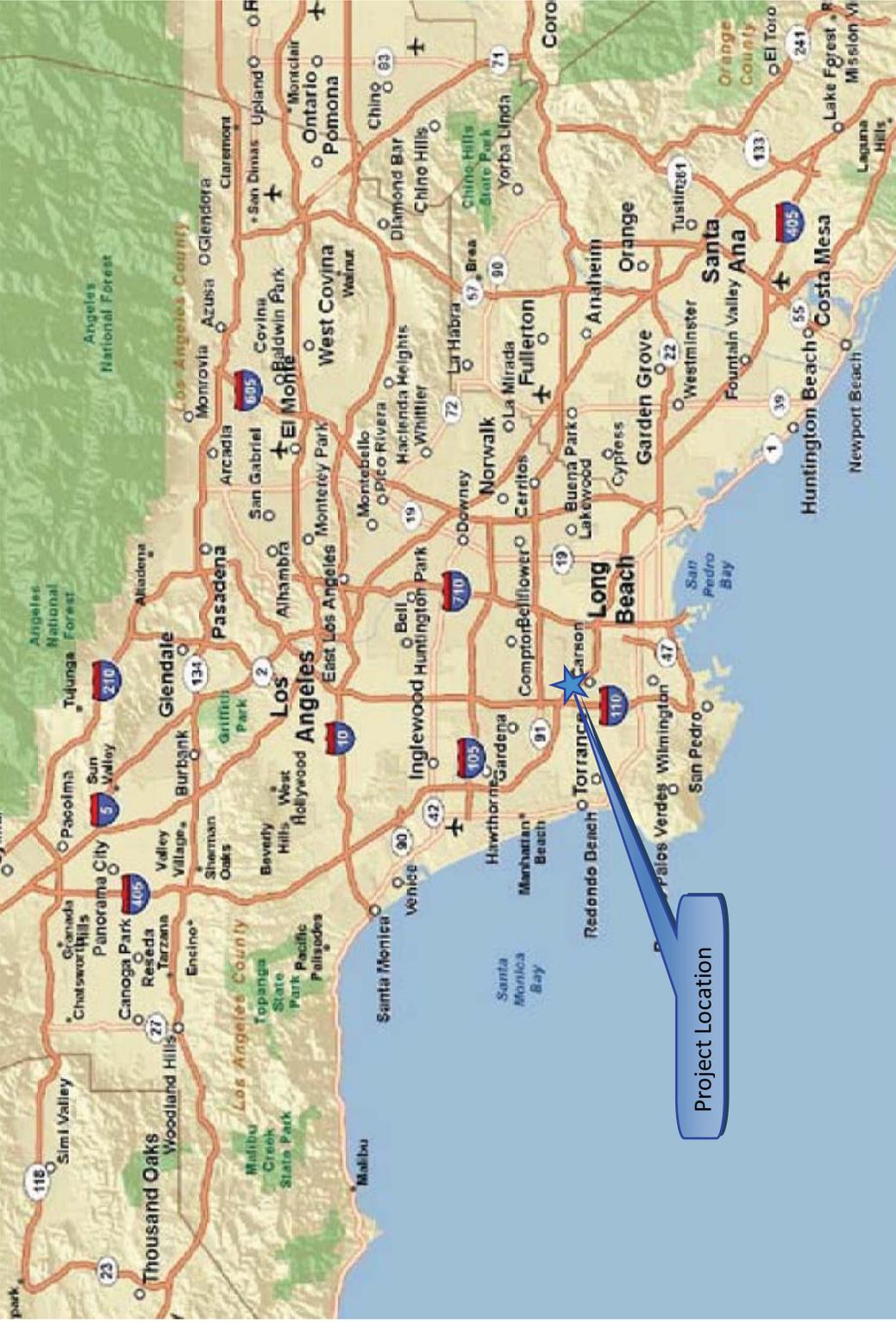
PLANS APPROVAL DATE \_\_\_\_\_

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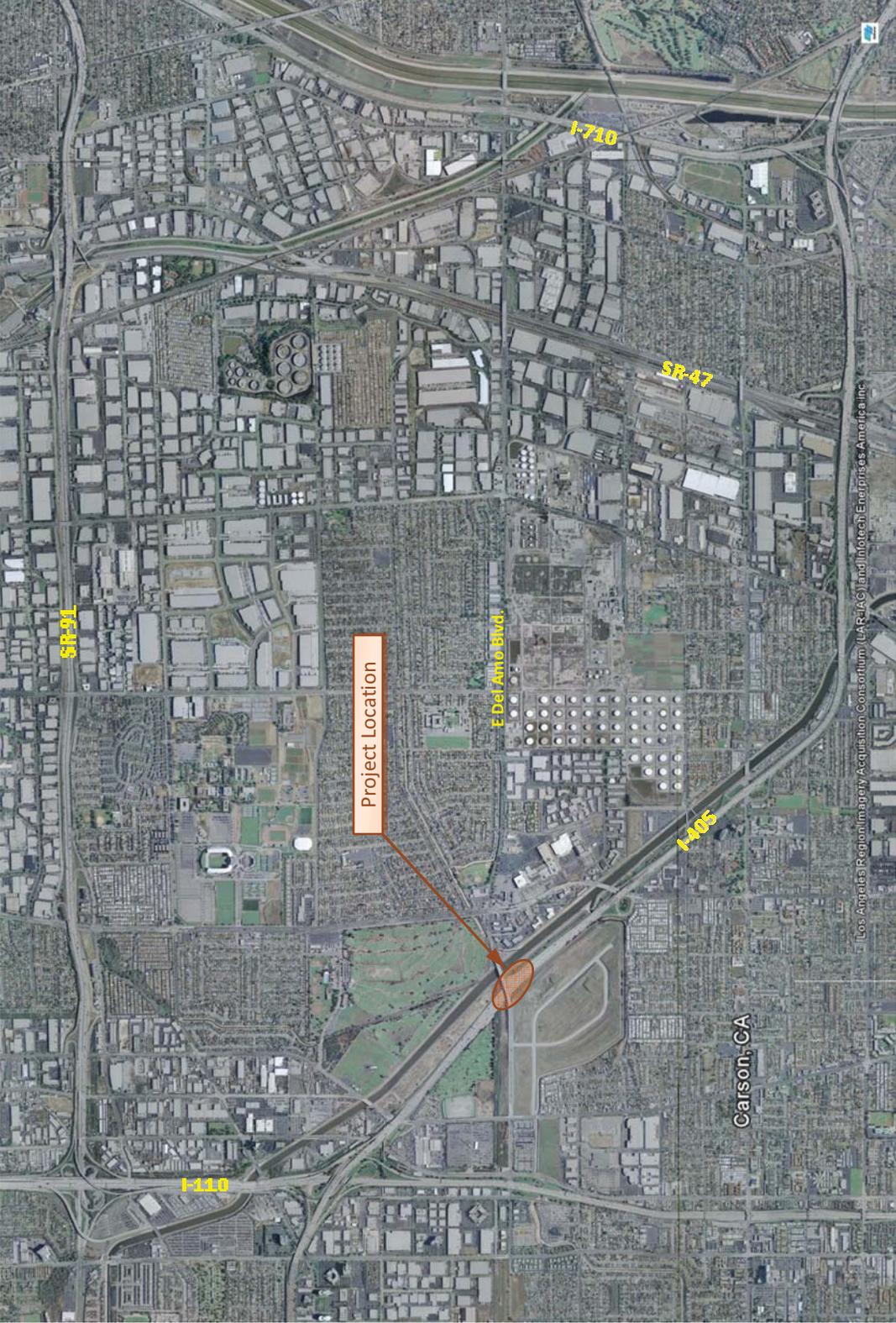


**LAYOUT**  
 SCALE 1" = 50'

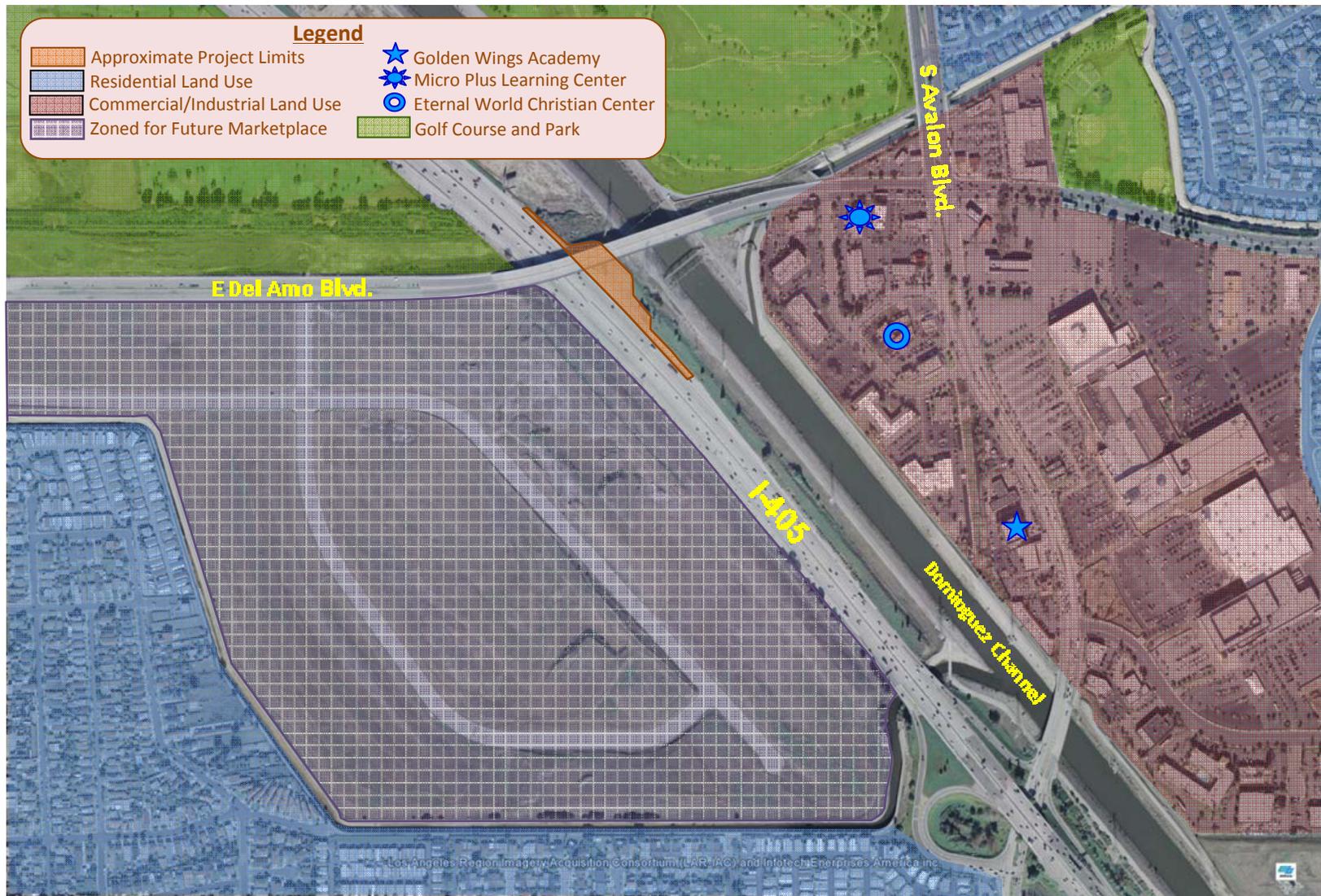
L-1



**PROJECT LOCATION MAP**  
**(Carson Truck Inspection Facility Renovation Project)**



**PROJECT VICINITY MAP**  
**(Carson Truck Inspection Facility Renovation Project)**



**LAND USE/SENSITIVE RECEPTOR MAP**  
**(Carson Truck Inspection Facility Renovation Project)**