

# PONTE VISTA AT SAN PEDRO SPECIFIC PLAN

## APPENDICES

City of Los Angeles

Ordinance No. \_\_\_\_\_

Effective \_\_\_\_\_

Revised February, 2014





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**APPENDIX NO. 1**  
**Design Guidelines**

**UNDER SEPARATE COVER**



**APPENDIX NO. 2**  
**Streetscape Standards**



P:\PROJECTS\1108\01\ENG\EXHIBITS\SPECIFIC PLAN AREA SECTIONS EXHIBITS\STREET STD\110801X SPECIFIC PLAN SECTION EXHIBIT INDEX-01.D Plotted by: Nora Jimenez

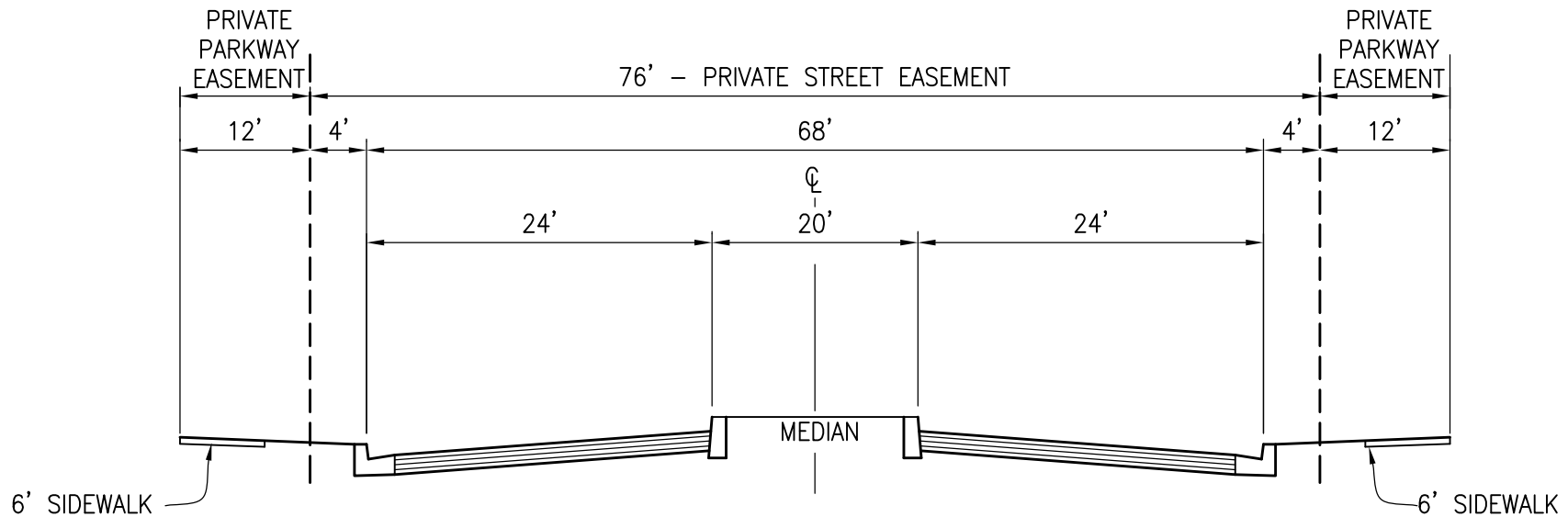


PONTE VISTA  
SPECIFIC PLAN  
STREET STANDARDS INDEX  
09.26.2013

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## PRIVATE STREETS A & B - ENTRY

NTS

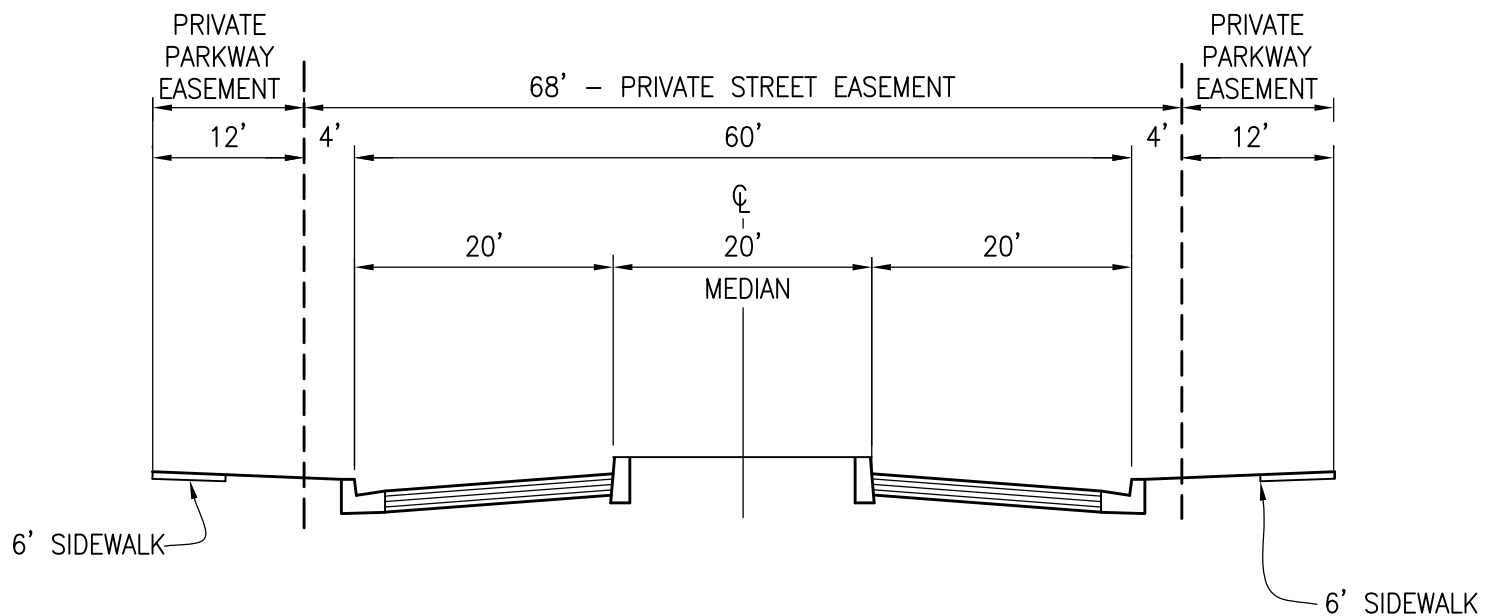
A

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**SHEET 2 OF 15**





## PRIVATE STREET E - ENTRY

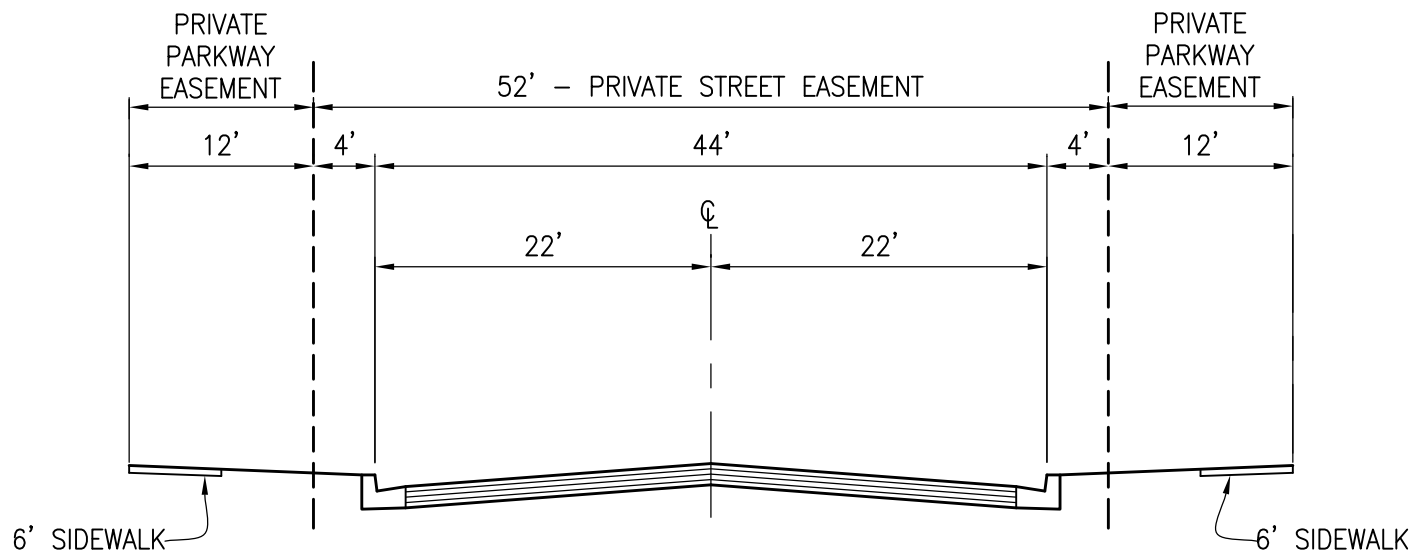
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## PRIVATE STREETS B & C - TYPICAL

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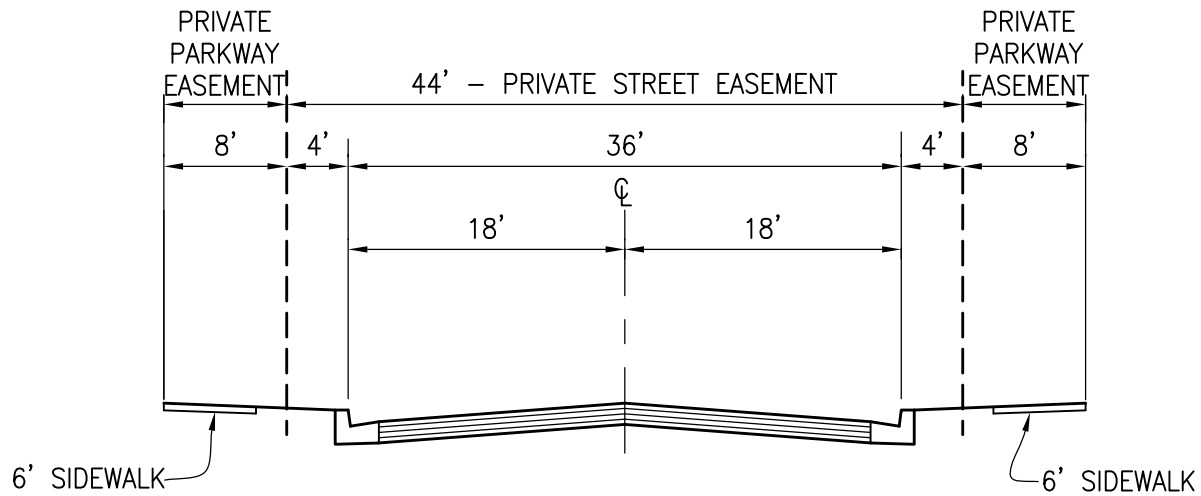
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## PRIVATE STREETS D,E, & F - TYPICAL

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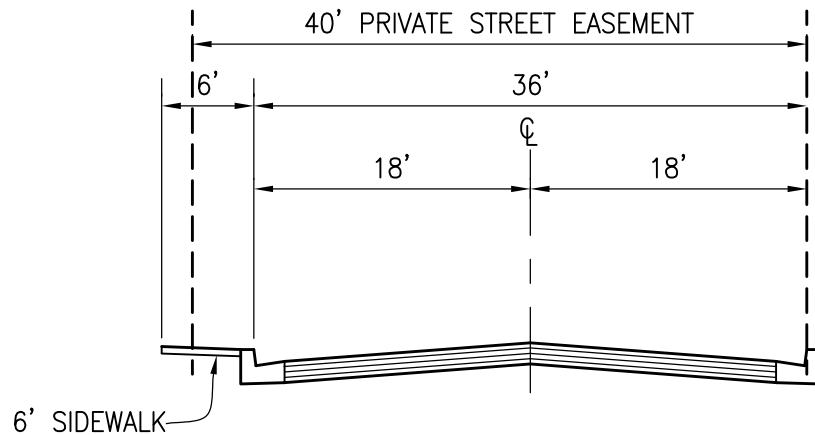
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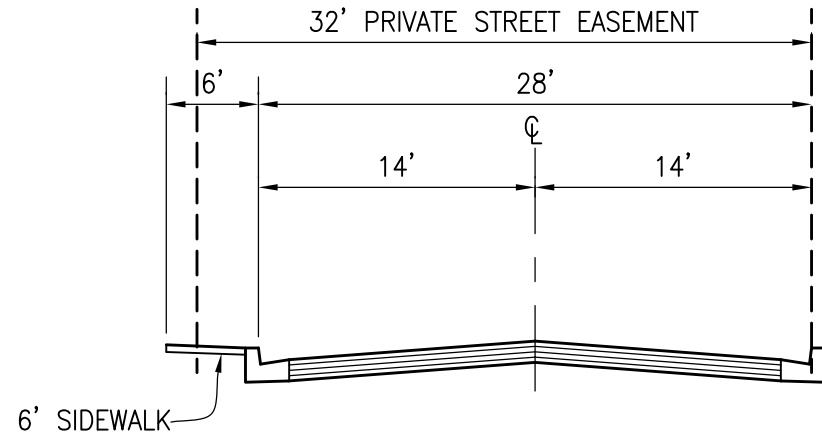




PRIVATE STREET O - TYPICAL

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PRIVATE STREET O - TYPICAL

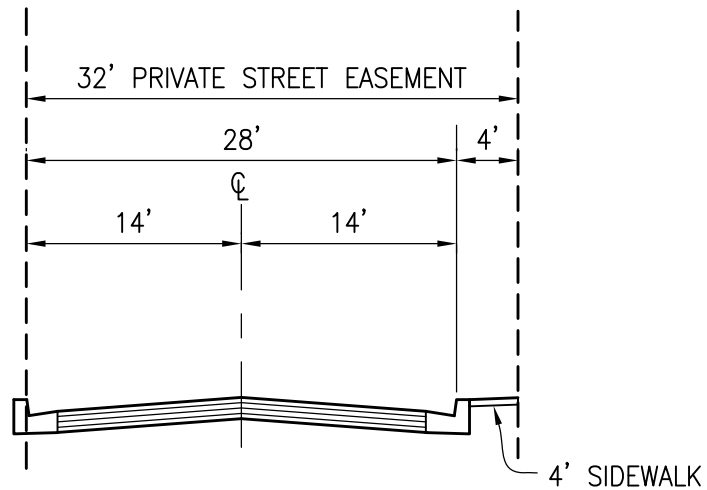
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E1

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## PRIVATE STREETS M & N - TYPICAL

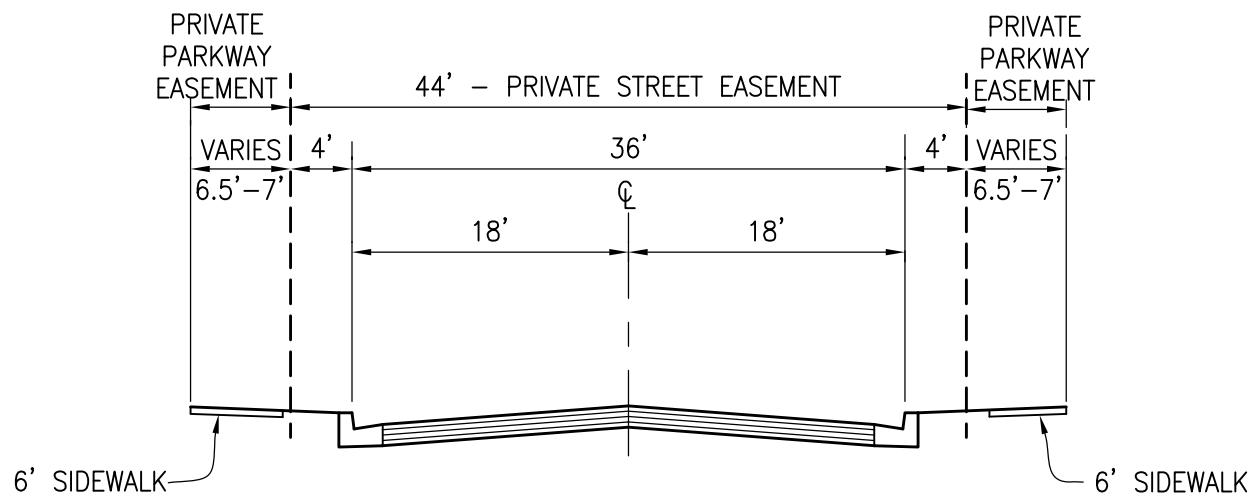
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F

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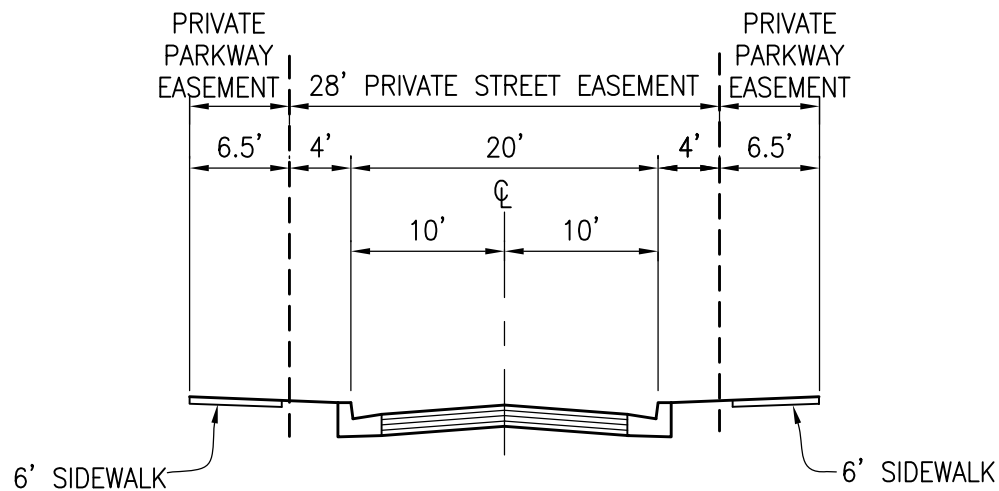
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## PRIVATE STREET K - TYPICAL

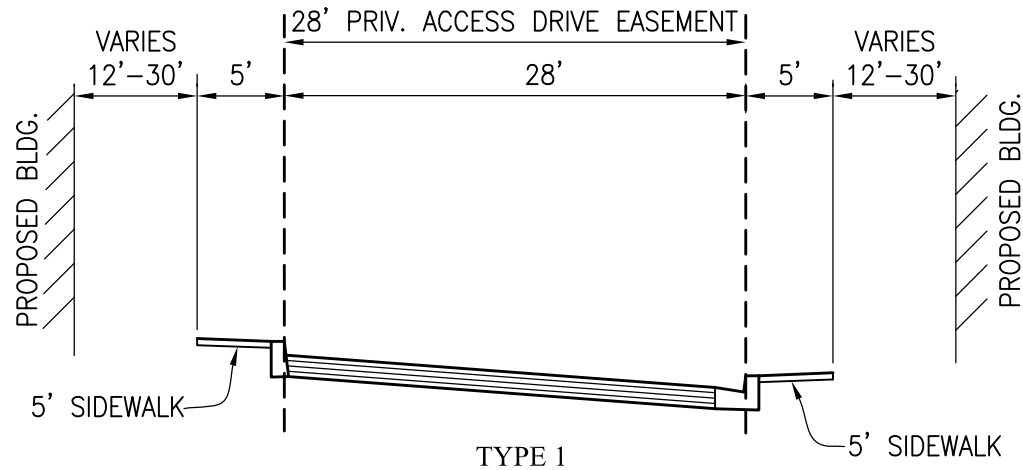
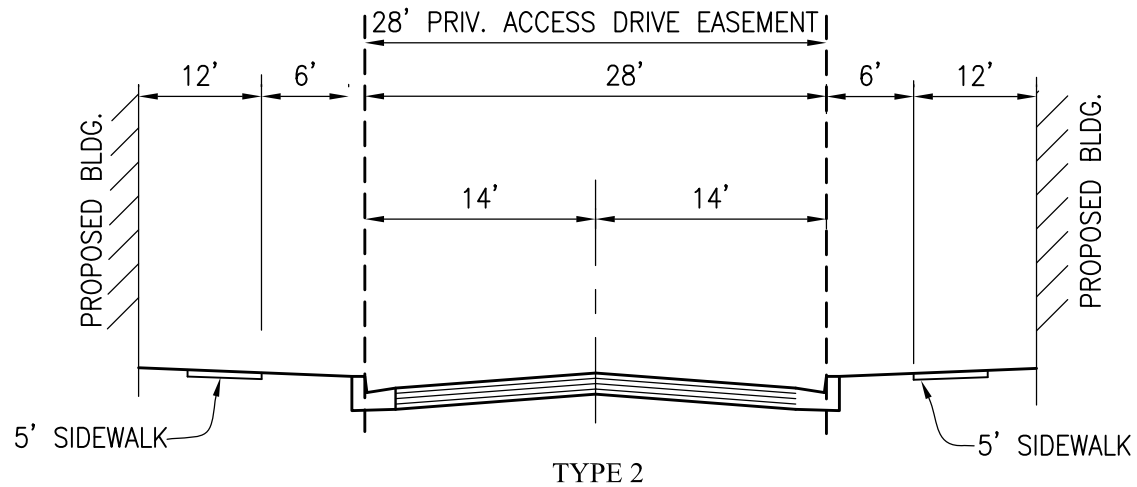
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H

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## PRIVATE ACCESS ROADWAY 0 - TYPICAL

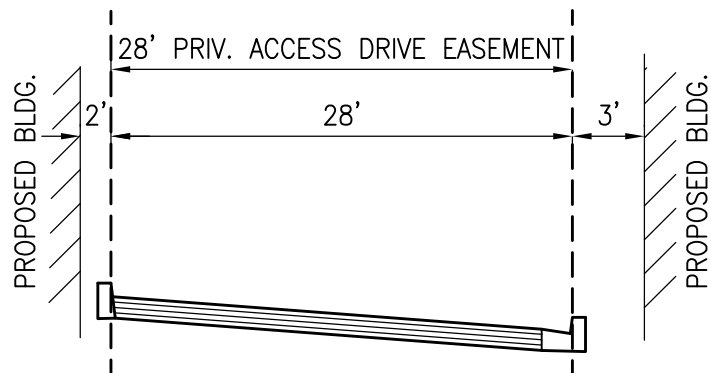
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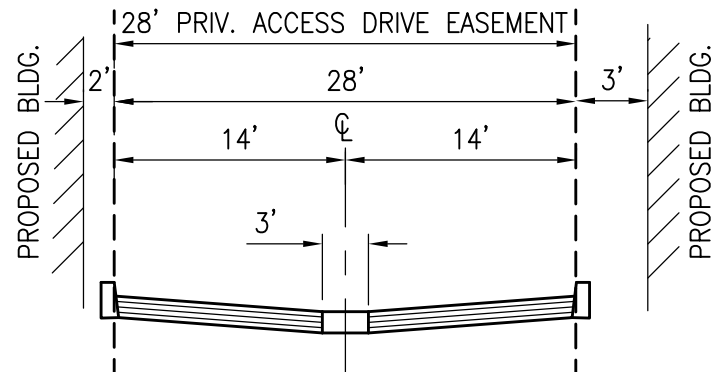
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OPTION 1



OPTION 2

## PRIVATE ACCESS ROADWAY P - TYPICAL

NTS

K

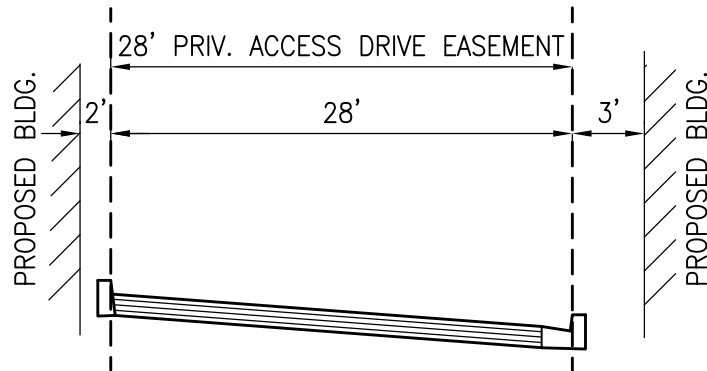
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STREET STANDARDS*

09.26.2013

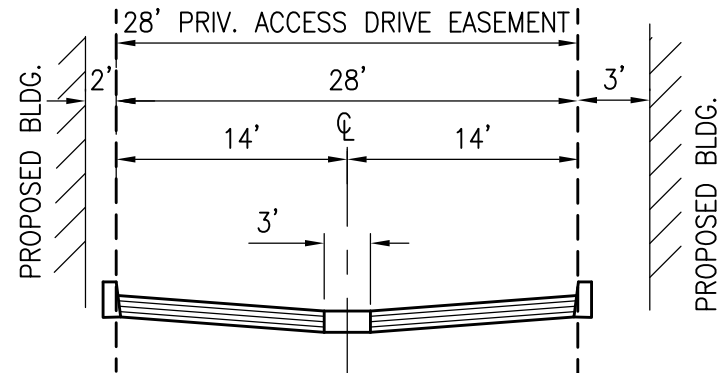
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**SHEET 11 OF 15**





OPTION 1



OPTION 2

## PRIVATE STREET 'ALLEY' Q - TYPICAL

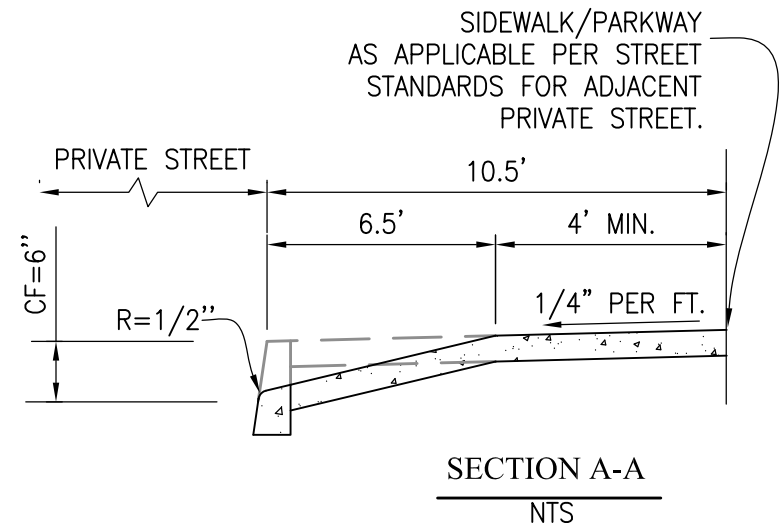
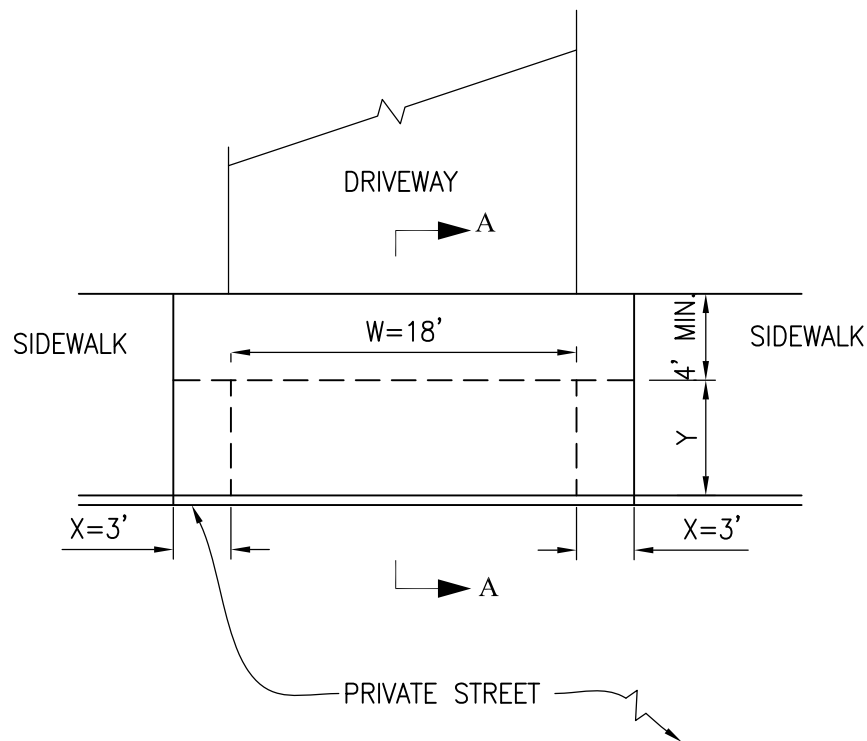
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**SHEET 12 OF 15**



## DRIVEWAY CASE 2 (SINGLE FAMILY)

NTS

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SPECIFIC PLAN  
DRIVEWAY STANDARDS

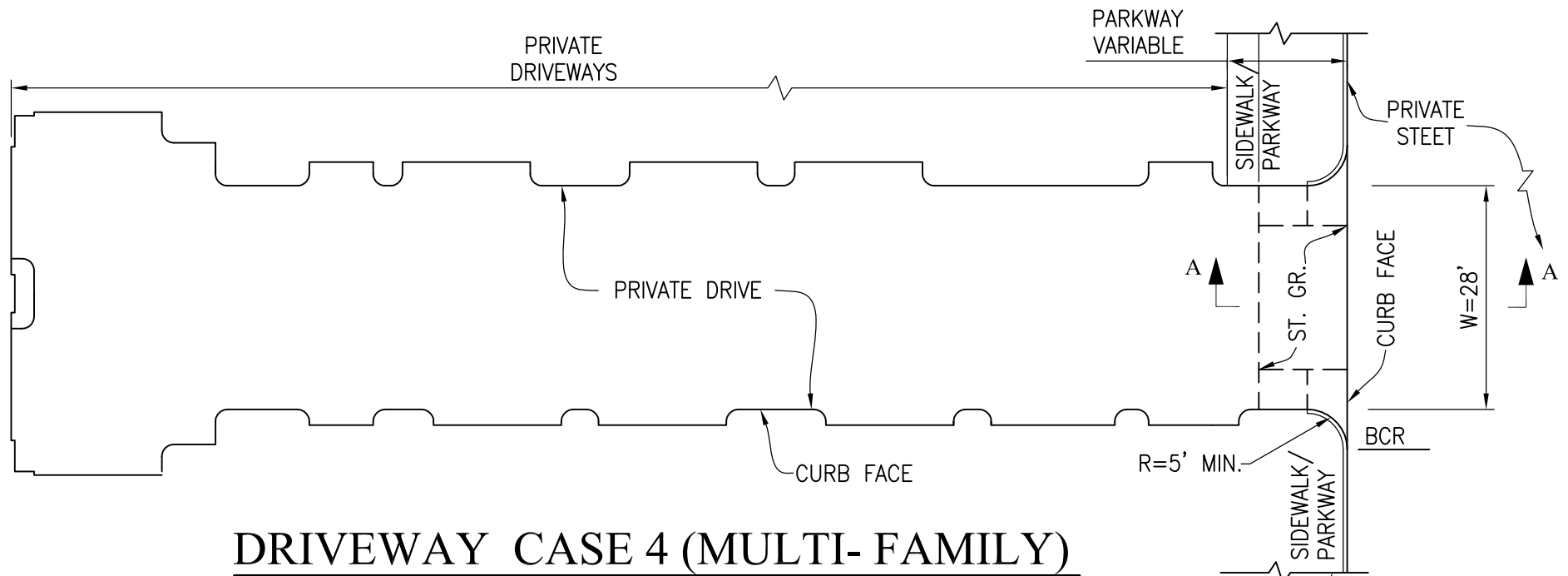
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REINFORCEMENT AND SLOPE REGIME PER  
CITY OF LOS ANGELES STANDARD PLAN S-440-3



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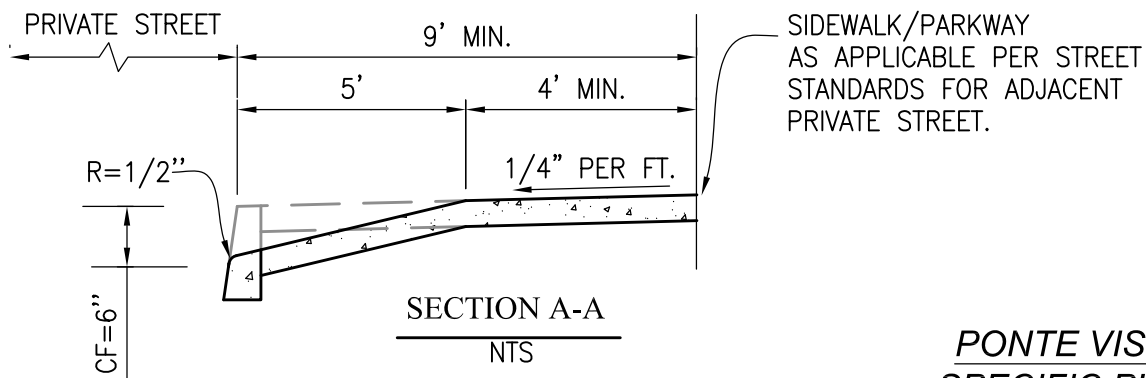
**SHEET 13 OF 15**



## DRIVEWAY CASE 4 (MULTI- FAMILY)

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SIDEWALK/PARKWAY  
AS APPLICABLE PER STREET  
STANDARDS FOR ADJACENT  
PRIVATE STREET.



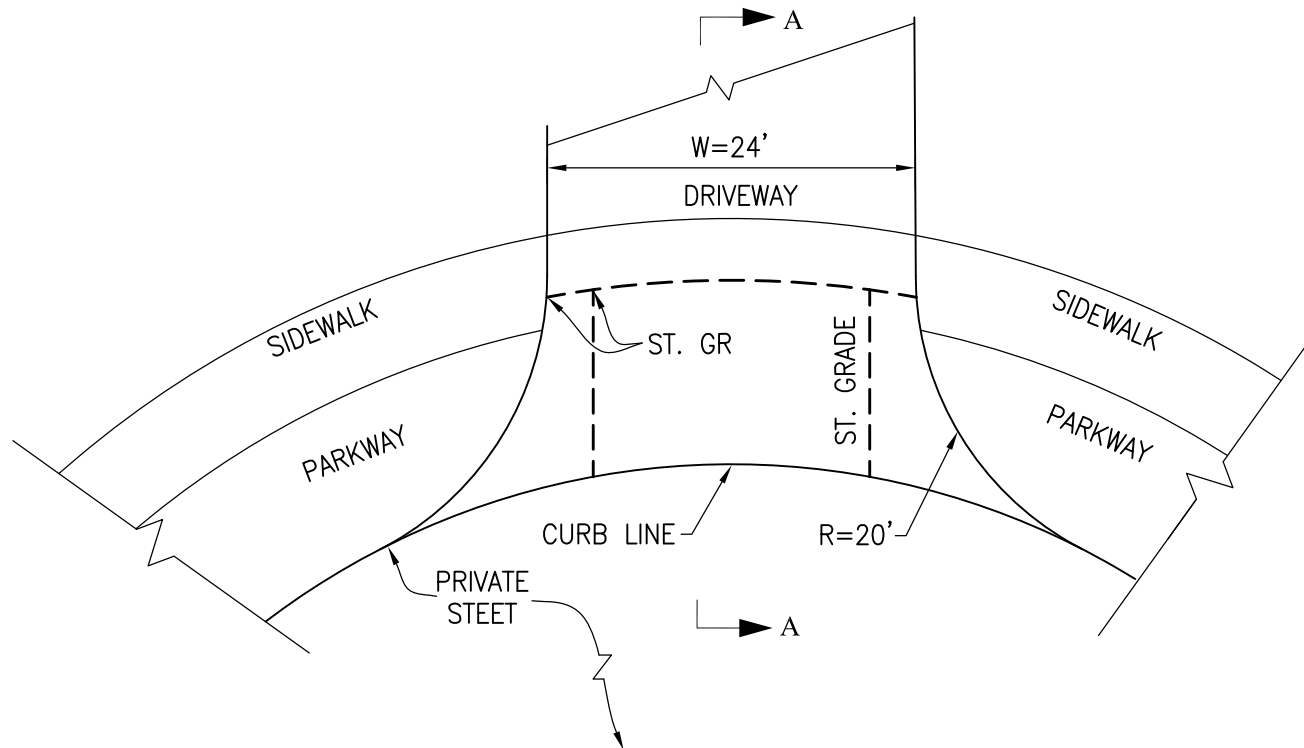
SIDEWALK/PARKWAY  
AS APPLICABLE PER STREET  
STANDARDS FOR ADJACENT  
PRIVATE STREET.

**PONTE VISTA**  
**SPECIFIC PLAN**  
**DRIVEWAY STANDARDS**  
09.26.2013

REINFORCEMENT AND SLOPE REGIME PER  
CITY OF LOS ANGELES STANDARD PLAN S-440-3

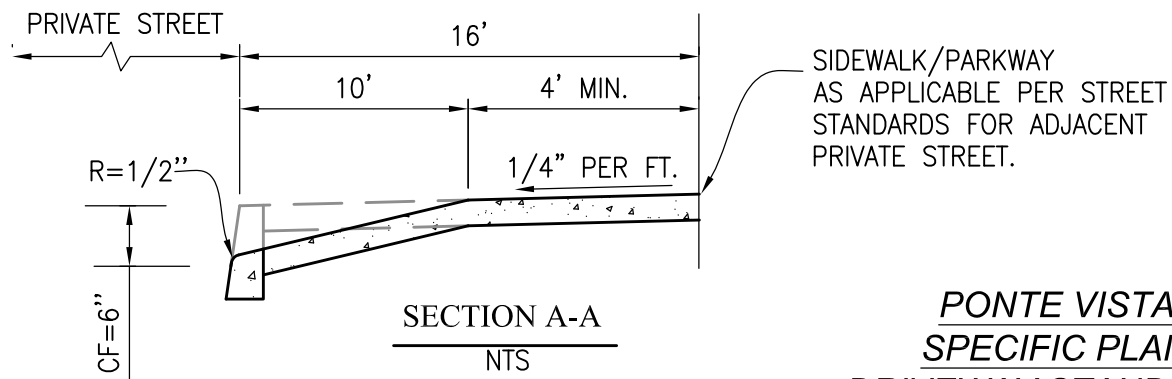
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**SHEET 14 OF 15**



## DRIVEWAY CASE 4A (MULTI-FAMILY)

NTS



**PONTE VISTA  
SPECIFIC PLAN  
DRIVEWAY STANDARDS**

09.26.2013

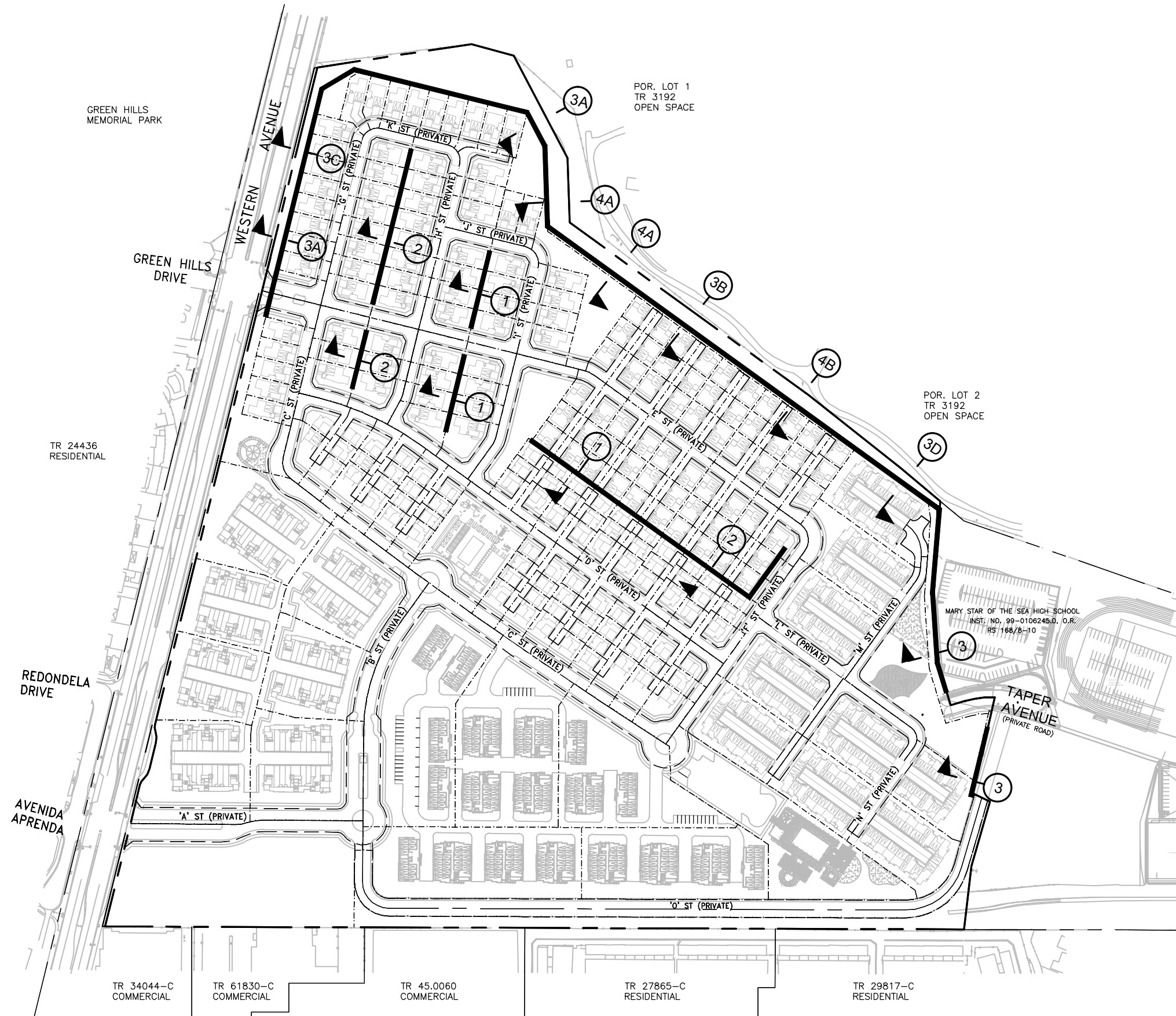
REINFORCEMENT AND SLOPE REGIME PER  
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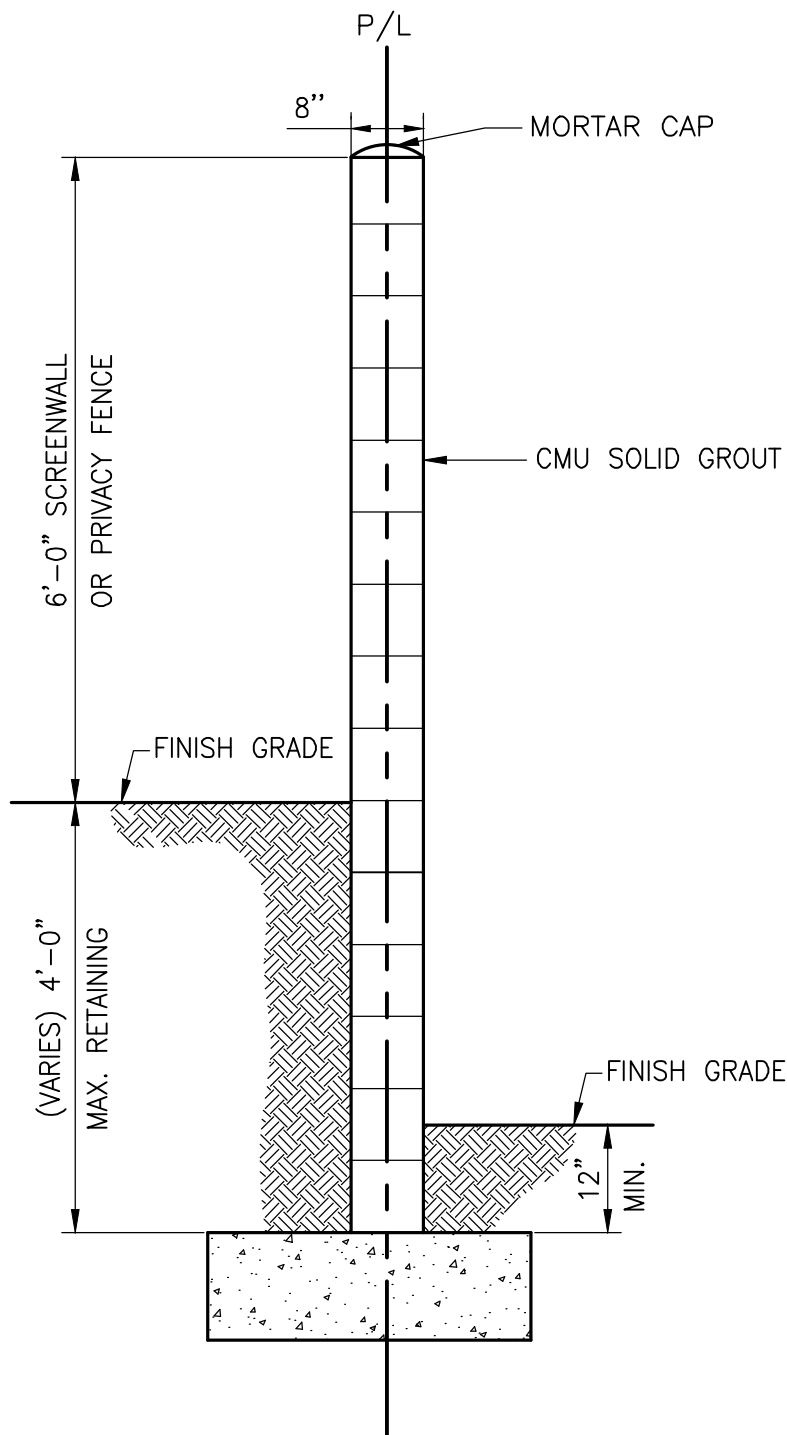
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**APPENDIX NO. 3**  
**Retaining Wall Standards**



**PONTE VISTA SPECIFIC PLAN  
RETAINING WALL STANDARDS INDEX**

09.26.2013



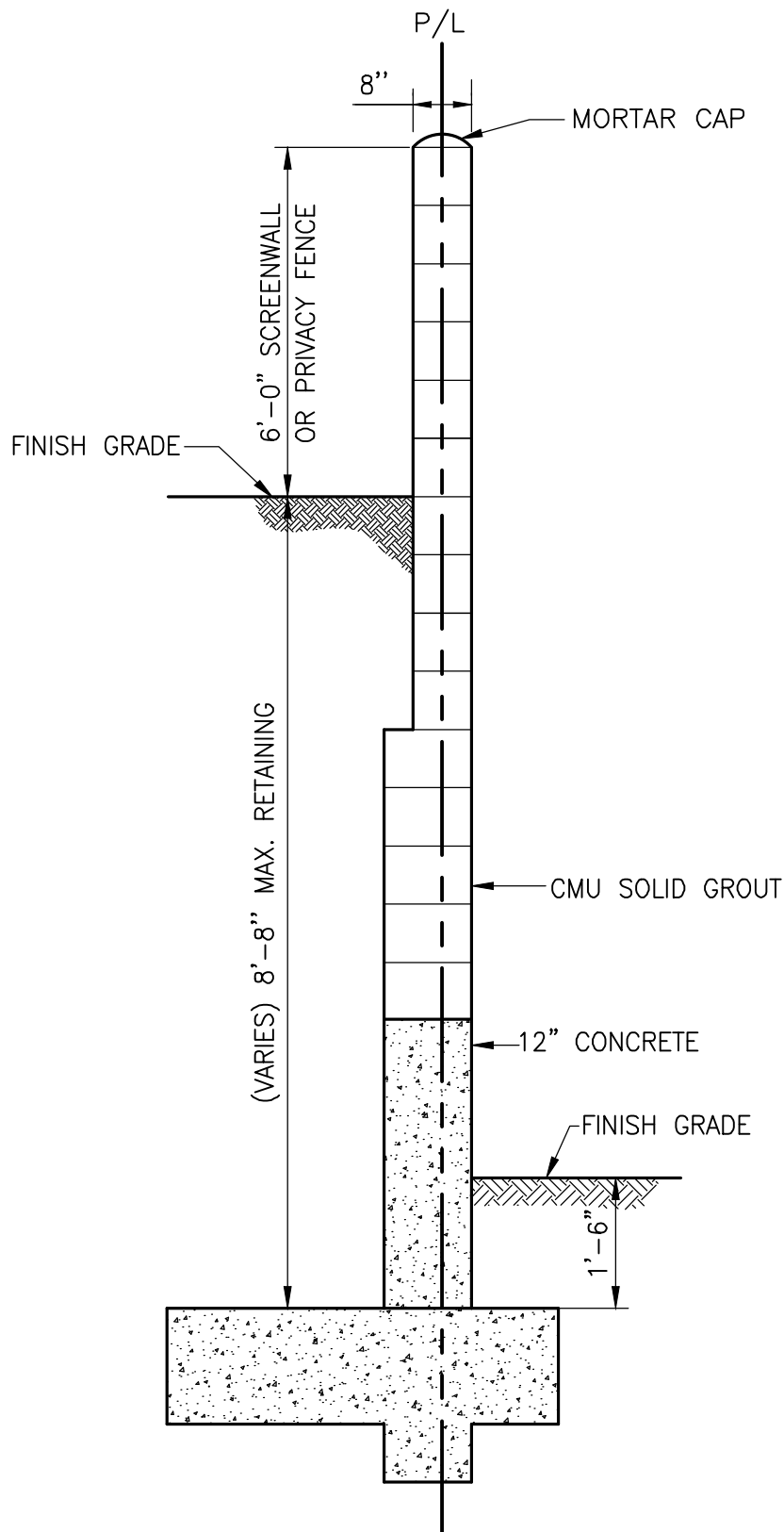
1

## RETAINING WALL - TYPICAL

SCALE N.T.S

PONTE VISTA SPECIFIC PLAN - WALL STANDARDS

05.09.2013



2

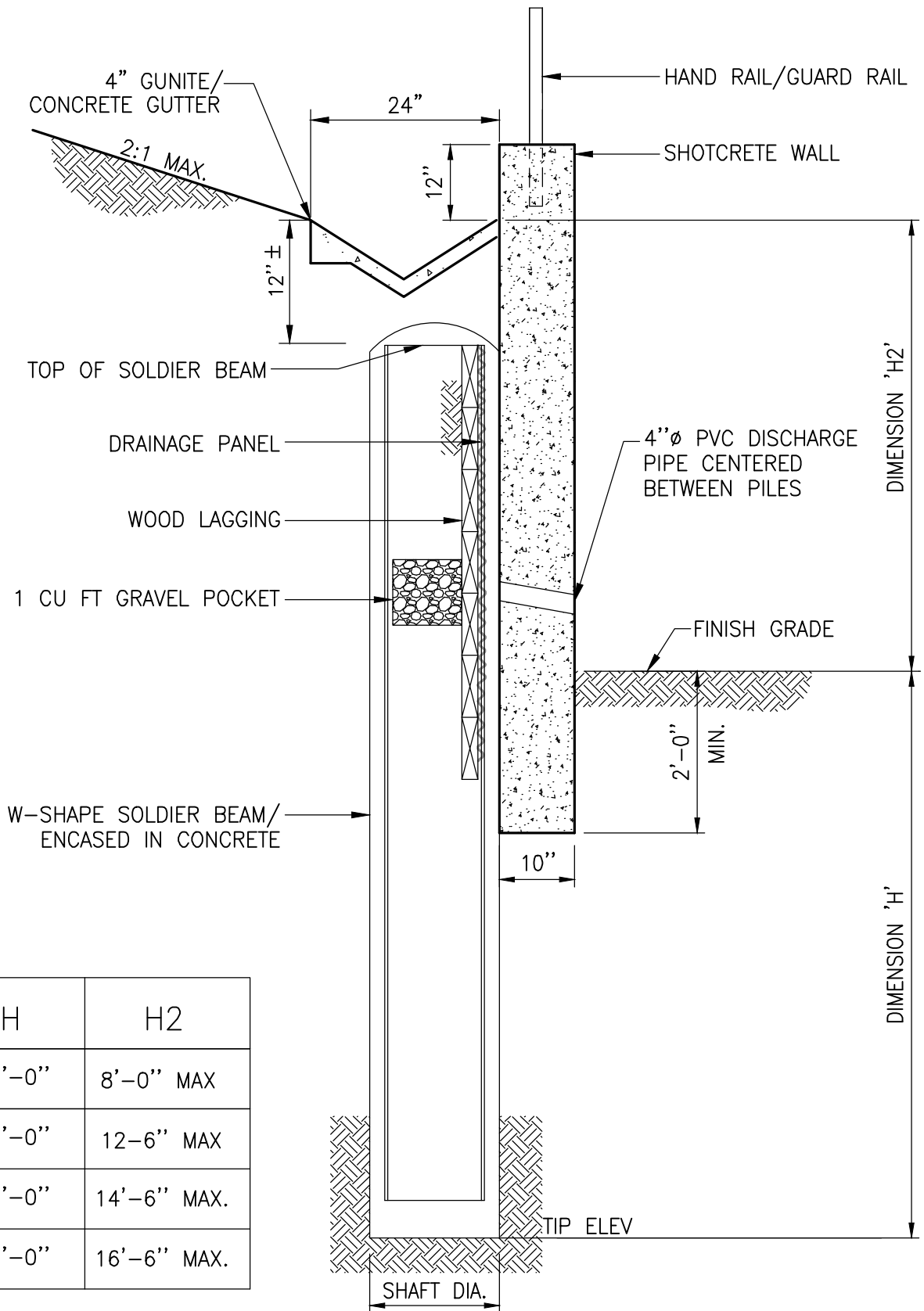
## RETAINING WALL - TYPICAL

SCALE N.T.S

PONTE VISTA SPECIFIC PLAN - WALL STANDARDS

05.09.2013





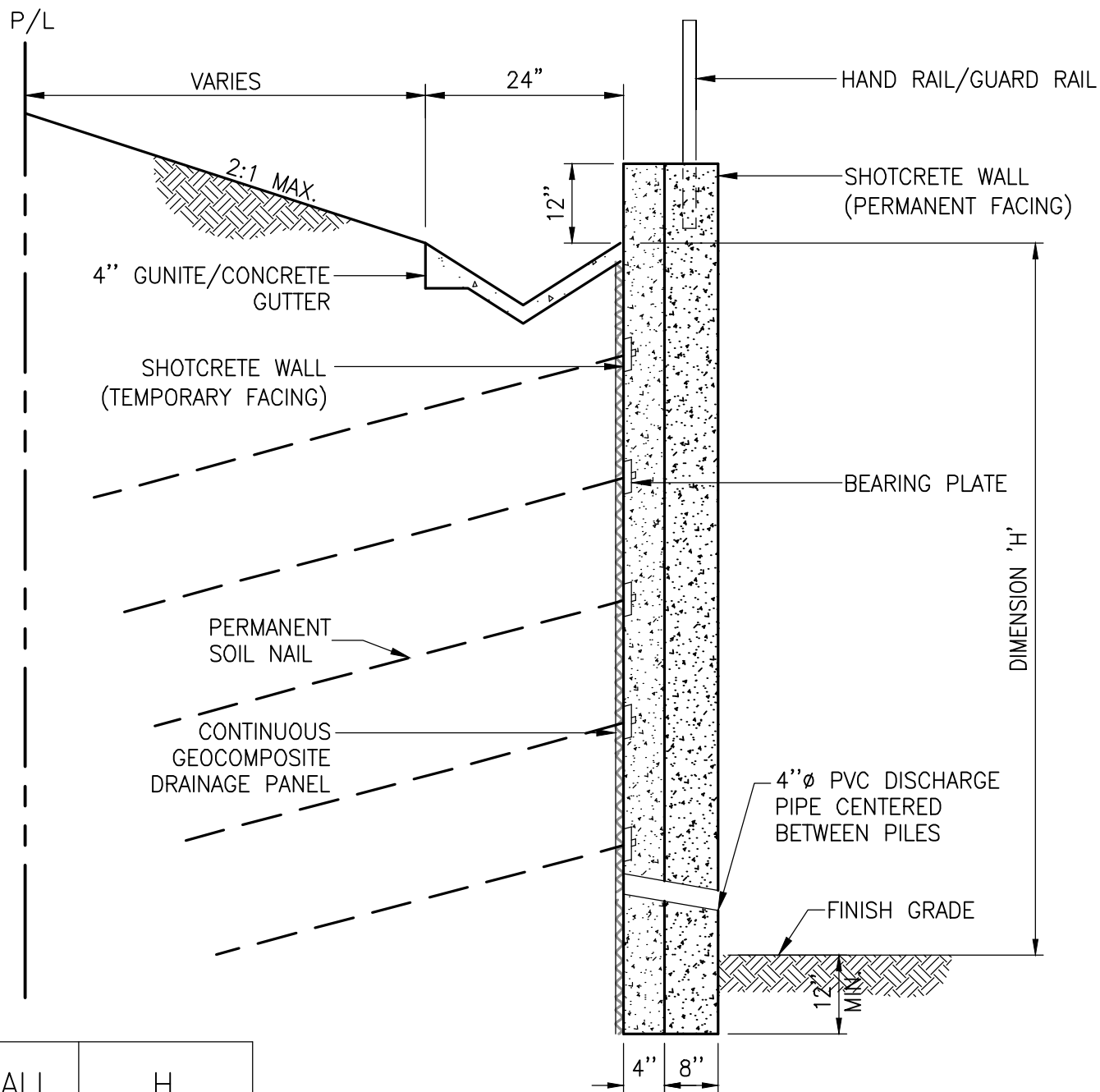
WALL	H	H2
3A	12'-0"	8'-0" MAX
3B	18'-0"	12'-6" MAX
3C	20'-0"	14'-6" MAX.
3D	20'-0"	16'-6" MAX.

### 3 RETAINING WALL - TYPICAL

SCALE N.T.S

PONTE VISTA SPECIFIC PLAN - WALL STANDARDS

05.09.2013



WALL	H
4A	20'-0" MAX.
4B	34'-0" MAX.

# 4 RETAINING WALL - TYPICAL SCALE N.T.S

PONTE VISTA SPECIFIC PLAN - WALL STANDARDS

05.09.2013

**APPENDIX NO. 4**  
**Traffic Study**

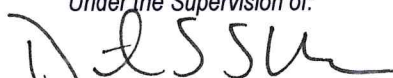
TRAFFIC IMPACT STUDY  
**PONTE VISTA AT SAN PEDRO**  
City of Los Angeles, California  
March 19, 2012

*Prepared for:*  
**iStar Financial**  
The Cavallari Group  
96 Vista del Sol  
Laguna Beach, California 92651

LLG Ref. 1-10-3861-1



*Under the Supervision of:*

  
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# TRAFFIC IMPACT STUDY

## PONTE VISTA AT SAN PEDRO PROJECT

City of Los Angeles, California  
March 19, 2012

### 1.0 INTRODUCTION

This traffic analysis<sup>1</sup> has been conducted to identify and evaluate the potential traffic impacts of the proposed Ponte Vista at San Pedro project. The proposed project is located on the east side of Western Avenue Drive, generally between Green Hills Drive and Avenida Aprenda in the San Pedro area of the City of Los Angeles. The proposed project site also is located within the Wilmington-Harbor City Community Plan area of the City of Los Angeles. The proposed project site location and general vicinity are shown in *Figure 1-1*.

The traffic analysis follows City of Los Angeles traffic study guidelines<sup>2</sup> and is consistent with traffic impact assessment guidelines set forth in the *2010 Congestion Management Program for Los Angeles County*<sup>3</sup>. This traffic analysis evaluates potential project-related impacts at 56 key study intersections in the vicinity of the project site. The study intersections were determined in consultation with City of Los Angeles Department of Transportation (LADOT) staff. The Critical Movement Analysis method was used to determine Volume-to-Capacity ratios and corresponding Levels of Service at the study intersections. In addition, a review was conducted of Los Angeles County Metropolitan Transportation Authority intersection and freeway monitoring stations to determine if a Congestion Management Program transportation impact assessment analysis is required for the proposed project.

While the project site is situated within the jurisdiction of the City of Los Angeles, the traffic study also evaluates potential traffic impacts associated with the project at study intersections located in the cities of Torrance, Lomita, Rancho Palos Verdes, Rolling Hills Estates, and Carson, as well as unincorporated areas of the County of Los Angeles. The intersection, road and freeway segments analyzed herein were determined by consultation with the affected jurisdictions through the California Environmental Quality Act (CEQA) Notice of Preparation (NOP) process. Potential impacts to study intersections located in jurisdictions outside of the City of Los Angeles were determined using both the City of Los Angeles impact criteria and the impact criteria of the affected jurisdiction. The Intersection Capacity Utilization method was

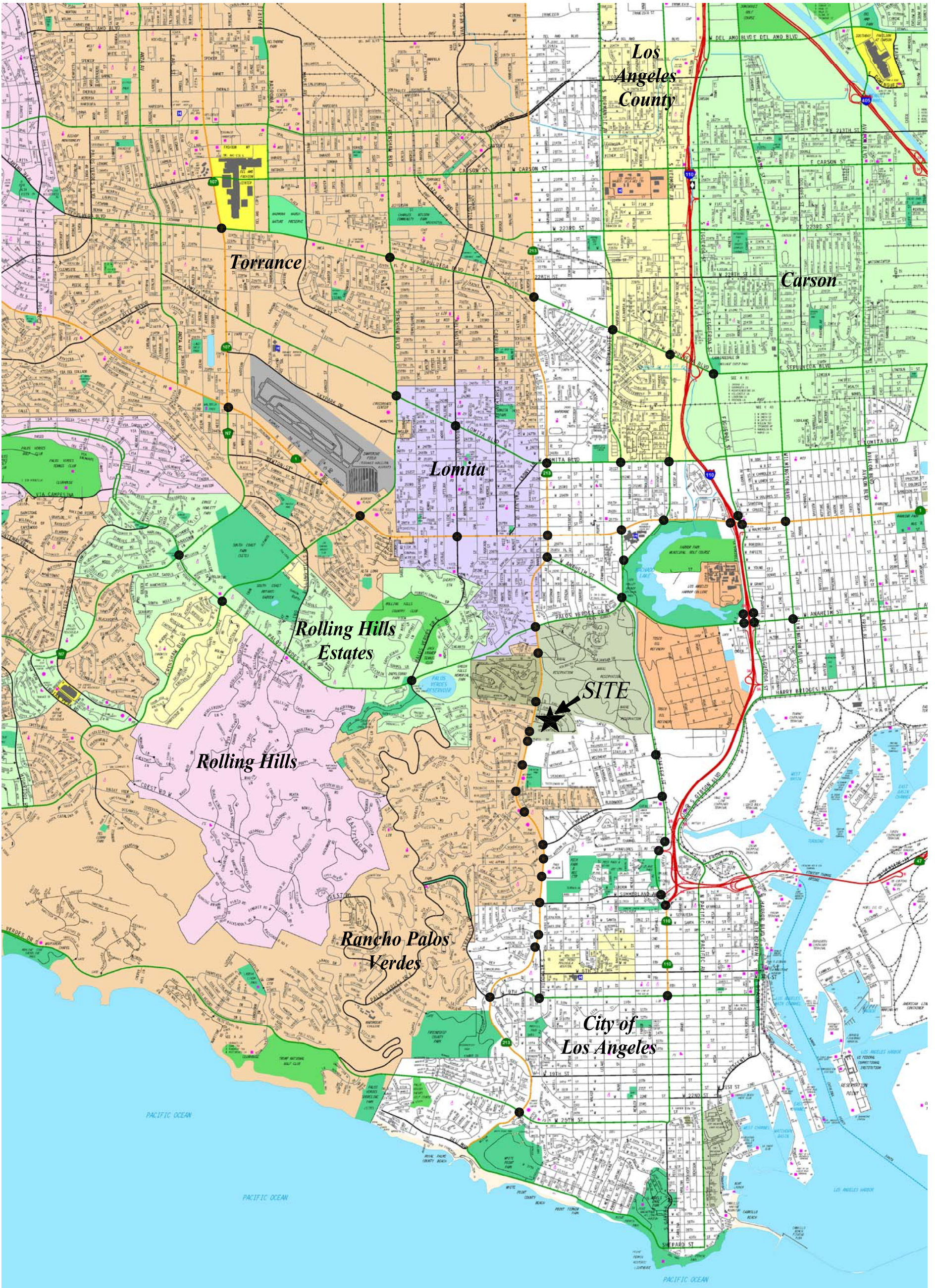
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<sup>1</sup> This traffic analysis report updates the previously submitted July 28, 2011, *Traffic Impact Study, Ponte Vista at San Pedro Project, City of Los Angeles, California*, prepared by LLG Engineers. This report includes changes and updates pursuant to comments and questions received from LADOT staff on the July 28, 2011 report.

<sup>2</sup> *Traffic Study Policies and Procedures*, City of Los Angeles Department of Transportation, March 2002. It is noted subsequent to the execution of the Ponte Vista traffic study Memorandum of Understanding, LADOT adopted updated traffic study guidelines (August 2011). Additionally, it is noted that the results of this traffic analysis would not be changed by application of the 2011 traffic study guidelines.

<sup>3</sup> *2010 Congestion Management Program for Los Angeles County*, Los Angeles County Metropolitan Transportation Authority, October 2010.





MAP SOURCE: RAND MCNALLY & COMPANY



● STUDY INTERSECTION

FIGURE 1-1  
VICINITY MAP



used to determine Volume-to-Capacity ratios and corresponding Levels of Service at the study intersections located in the above cities neighboring the City of Los Angeles. In addition, street and freeway segments under the jurisdiction of the California Department of Transportation (Caltrans) have been evaluated.

This study (i) presents existing traffic volumes, (ii) forecasts future traffic volumes with the related projects, (iii) forecasts future traffic volumes with the proposed project, (iv) determines project-related impacts, and (v) recommends mitigation measures, where necessary.

## 1.1 Study Area

Based on direction from LADOT staff, a total of 56 study intersections have been identified for evaluation. These study locations provide local access to the study area and define the extent of the boundaries for this traffic impact investigation. Further discussion of the existing street system and study area is provided in Section 4.0 herein.

The general location of the project in relation to the study locations and surrounding street system is presented in *Figure 1-1*. The traffic analysis study area is generally comprised of those locations which have the greatest potential to experience significant traffic impacts due to the proposed project as defined by the Lead Agency. In the traffic engineering practice, the study area generally includes those intersections that are:

- a. Immediately adjacent or in close proximity to the project site;
- b. In the vicinity of the project site that are documented to have current or projected future adverse operational issues; and
- c. In the vicinity of the project site that are forecast to experience a relatively greater percentage of project-related vehicular turning movements (e.g., at freeway ramp intersections).

The locations selected for analysis were based on the above criteria, proposed Ponte Vista at San Pedro project peak hour vehicle trip generation, the anticipated distribution of project vehicular trips and existing intersection/corridor operations.

## 2.0 PROJECT DESCRIPTION

### 2.1 Site Location

The Ponte Vista at San Pedro project is located in the San Pedro area of the City of Los Angeles, California. The proposed project also is located within the Wilmington-Harbor City Community Plan area of the City of Los Angeles. The project site is situated on the east side of Western Avenue Drive, generally between Green Hills Drive to the north and Avenida Aprenda to the south.

### 2.2 Existing Project Site

The project site currently contains 245 duplex residential units that were formerly used for United States Department of Navy housing, a 2,161 square foot community center, and a 3,454 square foot retail convenience store. All of the existing dwelling units and commercial buildings on the project site are vacant and will be demolished to accommodate the proposed project.

### 2.3 Proposed Project Description

The proposed project consists of the development of 1,135 residential dwelling units, including 392 multi-family rental units, 600 multi-family condominium units, and 143 detached residential units. The multi-family rental units are proposed on the southerly portion of the site while the multi-family condominium and detached units are proposed on the middle and northerly portions of the site. In addition to the residential units, a 2.8 acre public park is proposed on the south-western portion of the project site. It is anticipated that the proposed project will be constructed in phases, with completion and occupancy by the year 2017. The site plan for the Ponte Vista at San Pedro project is illustrated in *Figure 2-1*.

Access to the project site will be provided via Western Avenue at the existing intersections with Green Hills Drive and Avenida Aprenda. Further discussion of the proposed project site access and circulation scheme is presented in Section 3.0.

### 2.4 Mary Star of the Sea High School

Mary Star of the Sea High School, which opened in September 2007, is located along Taper Avenue, immediately east of the proposed Ponte Vista at San Pedro project site. Mary Star High School was approved by the City of Los Angeles in August 2001 with the requirement that the school take its primary vehicular access from Western Avenue. Mitigation measures to mitigate the traffic impacts of the school project were identified as part of the City's approval as required by CEQA.

The following provides a brief summary of the current traffic ingress and egress patterns implemented by the Mary Star High School in compliance with its Conditional Use Permit:

- Student Drop-Off and Pick-Up. Parents and other caregivers dropping-off (morning) and picking-up (afternoon) students currently enter the Ponte Vista site via the Green Hills Drive intersection, travel through the Ponte Vista site, drop-off/pick-up their students on the High School site, and then exit the High School site via Taper Avenue.





NOT TO SCALE  
LINSOTT, LAW & GREENSPAN, engineers

SOURCE: VALLEY CREST DESIGN GROUP



FIGURE 2-1  
SITE PLAN

PONTE VISTA AT SAN PEDRO PROJECT



- Student Drivers. Student drivers enter the Ponte Vista site via the Green Hills Drive intersection in the morning, travel through the Ponte Vista site, park on the High School site, and then exit the High School site via Taper Avenue in the afternoon.
- Faculty/Staff/Visitors. Faculty, staff and visitors travel to and from the High School site via Taper Avenue.

Although Mary Star High School is not a component of the Ponte Vista at San Pedro project, vehicular access to and from the Mary Star High School is planned to be maintained through the Ponte Vista site as a public benefit. The project proposes to continue accommodating vehicular access to the Mary Star of the Sea High School. As part of the Ponte Vista project, vehicular access to the Mary Star High School campus through the Ponte Vista site would be shifted from the Green Hills Drive intersection to the Avenida Aprenda intersection. Parents related to student drop-off and pick-up, as well as student drivers would access the High School (i.e., ingress only) via the Western Avenue/Avenida Aprenda intersection and continue to exit the campus via Taper Avenue.

### 3.0 SITE ACCESS AND CIRCULATION

The site access scheme for the proposed project is displayed in *Figure 2-1*. The project entrance improvements at the site access points and along the project's Western Avenue property frontage are illustrated in *Figure 3-1*. Descriptions of the existing site access and proposed project site access and circulation schemes are provided in the following subsections.

#### 3.1 Existing Site Access

Vehicular access to the existing project site is presently provided via the following two intersections on Western Avenue:

- The Western Avenue/Green Hills Drive-John Montgomery Drive intersection which is traffic signal controlled and provides full vehicular access (i.e., left-turn and right-turn ingress and egress turning movements) to the project site; and
- The Western Avenue/John Montgomery Drive intersection which is currently stop-controlled with the stop signs facing the John Montgomery Drive approach. The Western Avenue/John Montgomery Drive intersection is a three-way intersection that does not connect to the existing residential subdivision to the west of Western Avenue. This intersection also provides full left-turn and right-turn vehicular access to the project site.

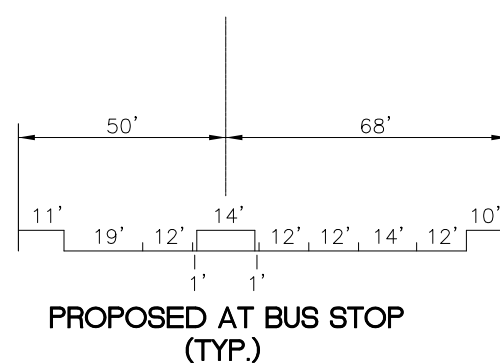
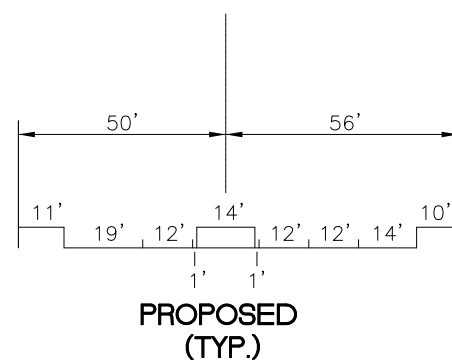
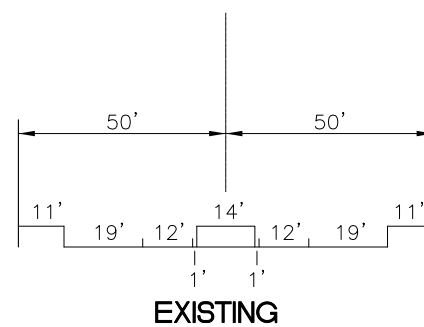
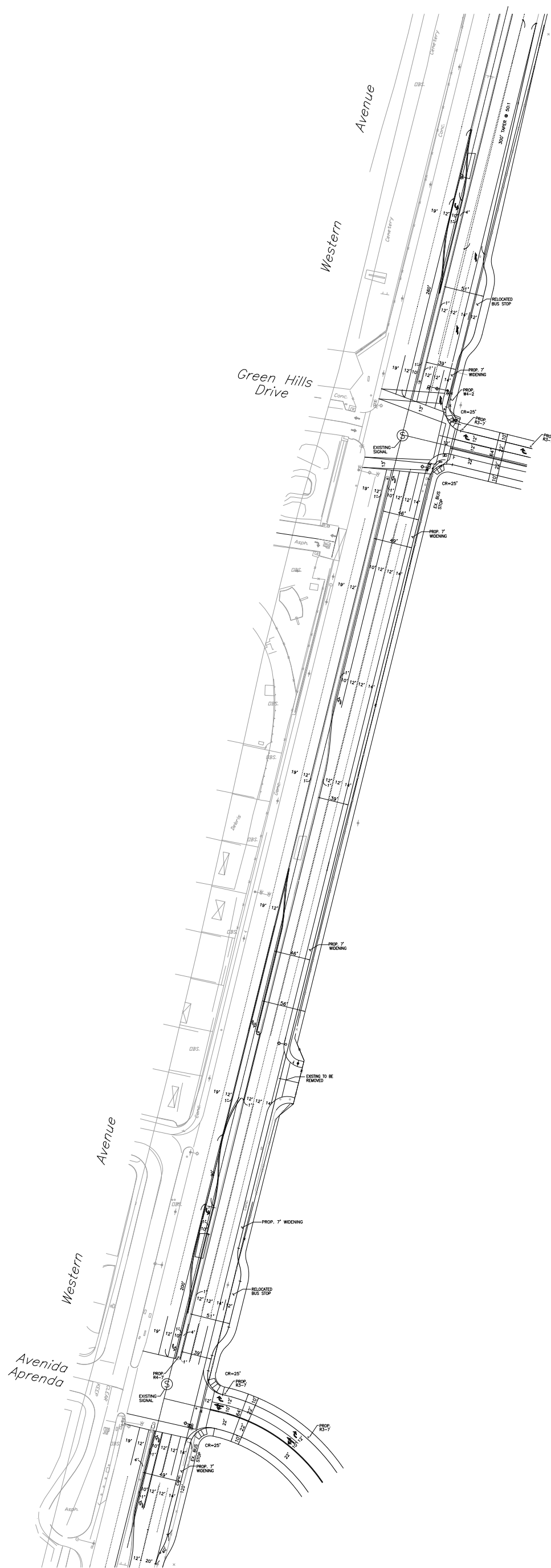
It is noted that the Western Avenue/Avenida Aprenda intersection provides an easterly, fourth leg which is adjacent to the project site; however, there is currently no improved on-site roadway that connects to this intersection. The Western Avenue/Avenida Aprenda intersection is traffic signal controlled and provides full vehicular access (i.e., left-turn and right-turn ingress and egress turning movements) to the project site.

#### 3.2 Proposed Project Site Access

The proposed project site access scheme is displayed in *Figure 2-1*. The proposed project will use the existing signalized intersections on Western Avenue adjacent to the project site for access (i.e., the Western Avenue intersections at Green Hills Drive and Avenida Aprenda). Brief descriptions of the proposed project site access points are provided in the following paragraphs.

- *Western Avenue/Green Hills Drive-Northerly Project Access*

Vehicle access to the project site will be provided via the existing intersection on Western Avenue opposite Green Hills Drive near the northerly border of the project site. One lane will be provided for inbound project traffic and two lanes will be provided for outbound project traffic. As noted above, this intersection is currently traffic signal controlled. It is anticipated that full vehicular access (i.e., left-turn and right-turn ingress and egress turning movements) to and from the project will continue to be provided at this intersection. As a project feature, Western Avenue will be widened along the project frontage to accommodate an additional lane on the northbound approach to the intersection to facilitate through movements and right-turn movements.



NOT TO SCALE

## FIGURE 3-1 PROJECT ENTRANCE IMPROVEMENTS

LINSCOTT, LAW & GREENSPAN, engineers

PONTE VISTA AT SAN PEDRO PROJECT

- *Western Avenue/Avenida Aprenda-Southerly Project Access*

Vehicle access to the project site will be provided via the existing intersection on Western Avenue opposite Avenida Aprenda near the southerly border of the project site. The southerly project access will also provide primary access to the public park planned as part of the project. One lane will be provided for inbound project traffic and two lanes will be provided for outbound project traffic. The existing Western Avenue/Avenida Aprenda intersection is currently traffic signal controlled, and will provide full vehicular access (i.e., left-turn and right-turn ingress and egress turning movements) to and from Western Avenue. As a project feature, Western Avenue will be widened along the project frontage to accommodate an additional lane on the northbound approach to the intersection to facilitate through movements and right-turn movements. As previously noted (refer to Subsection 2.4), vehicular access to the Mary Star High School campus through the project site via the Western Avenue intersection at Avenida Aprenda is planned as part of the proposed project as a public benefit. Parents and students will access (i.e., ingress only) the campus via the Western Avenue/Avenida Aprenda intersection and continue to exit the campus via Taper Avenue.

In addition to the improvements noted in the paragraphs above, the following improvements to Western Avenue are proposed as project features (and illustrated on *Figure 3-1*):

- Western Avenue along the project frontage is proposed to be dedicated and improved so as to provide a 46-foot half-street within a 56-foot half right-of-way. This improvement would allow for the striping of a third northbound through lane along Western Avenue adjacent to the project site.
- The existing John Montgomery Drive intersection along the east side of Western Avenue (i.e., between Green Hills Drive and Avenida Aprenda) will be closed.
- If acceptable to Caltrans, LADOT and Metro, bus pull-out lanes would be provided along the east side of Western Avenue north of Avenida Aprenda and north of Green Hills Drive. In the area of the bus pull-out lanes, the dedication and improvement would be increased as needed (e.g., a 58-foot half-street on a 68-foot half right-of-way).
- The raised median on Western Avenue adjacent to the project site will be modified as needed to extend the length of left-turn pockets for southbound traffic turning left into the project site at Green Hills Drive and at Avenida Aprenda. Also, the existing left-turn pocket at the John Montgomery Drive intersection will be closed.
- If approved by Caltrans, LADOT and the City of Rancho Palos Verdes, left-turn traffic signal phasing would be provided for Western Avenue traffic (northbound and southbound directions) at the Green Hills Drive and Avenida Aprenda intersections.

### 3.3 Other Project Site Access Options Considered but Not Evaluated

In conjunction with the formal scoping process of the Draft Environmental Impact Report to be prepared for the Ponte Vista at San Pedro project, several comments were received regarding potential vehicular access options for the project. These comments are discussed below with an explanation as to why these options are not feasible, and thus they do not warrant further analysis in this traffic study.

- Vehicular Access Directly to Gaffey Street. Several comments suggested that the project should provide direct vehicular access to Gaffey Street, located approximately one-half mile east of the project site. However, most (or all) of this connector roadway would be required to be constructed on land that is owned by the U.S. Navy. The Navy site is currently used for the storage of jet fuel in underground tanks. In prior communications, the Navy has stated that its property is not available for purchase. Further, public access (by Ponte Vista or other traffic), whether by easement or other means, through the jet fuel storage site cannot be accommodated or permitted. Therefore, this site access option does not warrant further consideration within this traffic study.
- Vehicular Access to Taper Avenue. Several comments suggested that the project-related traffic should have access to Taper Avenue to the east of the site. However, this would require project-related traffic to travel onto property owned by Mary Star of the Sea High School. Further, this would result in project-related traffic driving directly through the middle of the High School campus, causing adverse safety impacts to students, faculty/staff, and others related to the High School. Beyond the High School, the section of Taper Avenue southerly to Westmont Drive is located within a residential community, and thus, would experience increases in traffic that would likely cause adverse impacts in the existing neighborhood if this option was implemented. Therefore, this site access option does not warrant further consideration within this traffic study. It is noted, however, that the vehicular access scenario via Taper Avenue through the Mary Star High School site is potentially feasible in terms of accommodating vehicular access during emergencies (i.e., permitting emergency vehicles to enter the Ponte Vista site and residents to exit in the event the Western Avenue access points become unusable).

## 4.0 EXISTING STREET SYSTEM

### 4.1 Regional Highway System

Regional access to the project site is provided by the Interstate 110 (Harbor) Freeway, Interstate 405 (San Diego) Freeway, State Route 213 (Western Avenue), State Route 107 (Hawthorne Boulevard), and State Route 1 (Pacific Coast Highway), as shown in *Figure 1-1*. Brief descriptions of the regional access roadways are provided in the following paragraph.

*I-110 (Harbor) Freeway* is a major north-south oriented freeway connecting Pasadena to the north with the San Pedro area to the south. In the project vicinity, four mainline travel lanes are provided in each direction on I-110. Northbound and southbound ramps are provided on I-110 Freeway at Pacific Coast Highway and Anaheim Street in the project vicinity, which are located approximately three miles northeast of the project and two miles east of the project site, respectively.

*I-405 (San Diego) Freeway* is a major north-south freeway that provides five mainline travel lanes in each direction in the project vicinity. Northbound and southbound ramps are provided on I-405 Freeway at Vermont Avenue, Normandie Avenue, Western Avenue, Crenshaw Boulevard, and Hawthorne Boulevard in the project vicinity.

*SR-213 (Western Avenue)* is a major north-south roadway that provides two mainline travel lanes in each direction in the project vicinity.

*SR-107 (Hawthorne Boulevard)* is a major north-south roadway that provides three mainline travel lanes in each direction in the project vicinity.

*SR-1 (Pacific Coast Highway)* is a major north-south roadway that provides two to three mainline travel lanes in each direction in the project vicinity.

### 4.2 Local Street System

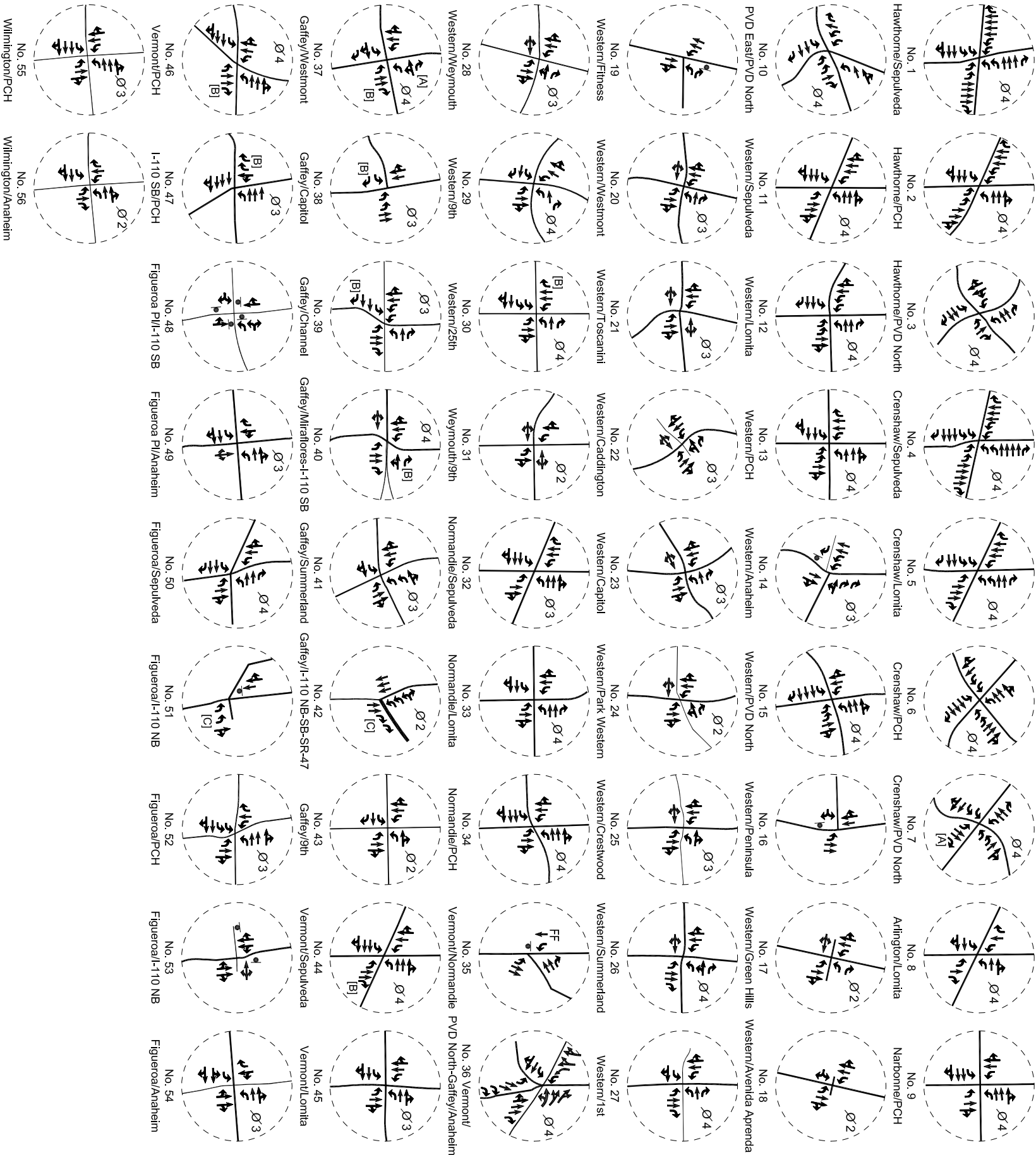
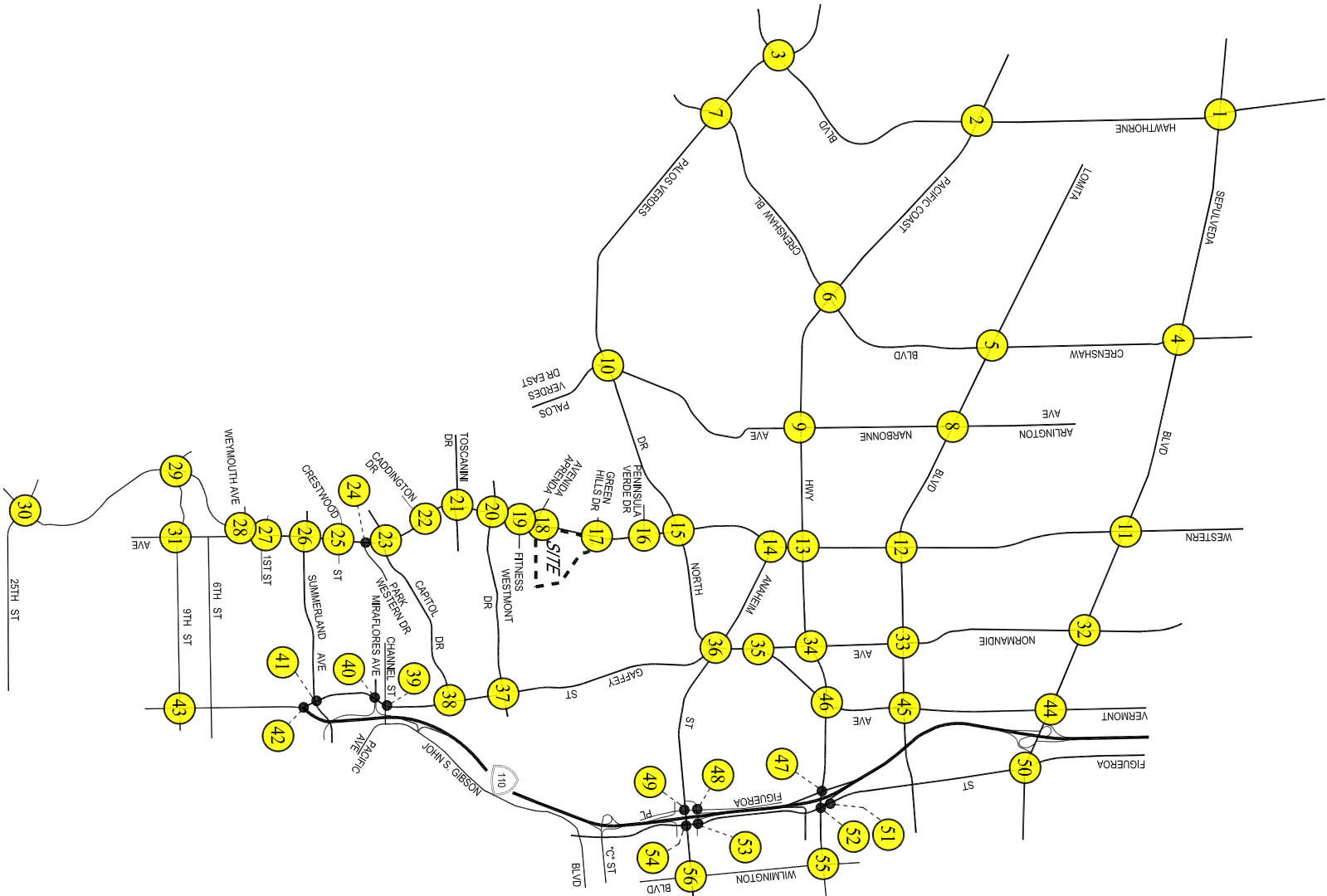
Immediate access to the project site is via Western Avenue. The list of 56 study intersections selected in consultation with LADOT staff for analysis of potential impacts related to the proposed project is presented in *Table 4-1* (jurisdiction of each intersection is noted in parenthesis for informational purposes). The study intersections selected for analysis in the traffic study also are noted in *Figure 1-1*. Of the 56 existing study intersections, 51 intersections are presently controlled by traffic signals and remaining 5 intersections are unsignalized. The existing lane configurations at the 56 existing study intersections are displayed in *Figure 4-1*.

### 4.3 Roadway Descriptions

A review of the important roadways in the project site vicinity and study area is summarized in *Table 4-2*. As indicated in *Table 4-2*, the important roadways within the project study area were reviewed on a segment basis in terms of the number of lanes provided, parking restrictions, posted speed limits, etc. Additionally, the roadway classifications as designated by the appropriate jurisdiction are noted on a segment basis in *Table 4-2*.

Table 4-1  
LIST OF STUDY INTERSECTIONS

Map No.	Location	Traffic Control	Jurisdiction(s)
1	Hawthorne Boulevard/Sepulveda Boulevard	Signalized	City of Torrance
2	Hawthorne Boulevard/Pacific Coast Highway	Signalized	City of Torrance/Caltrans
3	Hawthorne Boulevard/Palos Verdes Drive North	Signalized	City of Rolling Hills Estates
4	Crenshaw Boulevard/Sepulveda Boulevard	Signalized	City of Torrance
5	Crenshaw Boulevard/Lomita Boulevard	Signalized	City of Torrance
6	Crenshaw Boulevard/Pacific Coast Highway	Signalized	City of Torrance/Caltrans
7	Crenshaw Boulevard/Palos Verdes Drive North	Signalized	City of Rolling Hills Estates/County of Los Angeles
8	Arlington Avenue/Lomita Boulevard	Signalized	City of Lomita
9	Narbonne Avenue/Pacific Coast Highway	Signalized	City of Lomita/Caltrans
10	Palos Verdes Drive East/Palos Verdes Drive North	Signalized	City of Rolling Hills Estates
11	Western Avenue/Sepulveda Boulevard	Signalized	City of Los Angeles/City of Torrance/Caltrans
12	Western Avenue/Lomita Boulevard	Signalized	City of Los Angeles/Caltrans
13	Western Avenue/Pacific Coast Highway	Signalized	City of Los Angeles/Caltrans
14	Western Avenue/Anaheim Street	Signalized	City of Los Angeles/Caltrans
15	Western Avenue/ Palos Verdes Drive North	Signalized	City of Lomita/Caltrans
16	Western Avenue/Peninsula Verde Drive	Unsignalized	City of Rancho Palos Verdes/Caltrans
17	Western Avenue/Northerly Project Access-Green Hills Drive	Signalized	City of Rancho Palos Verdes/Caltrans
18	Western Avenue/Avenida Aprenda-Southerly Project Access	Signalized	City of Rancho Palos Verdes/Caltrans
19	Western Avenue/Fitness Drive	Unsignalized	City of Rancho Palos Verdes/Caltrans
20	Western Avenue/Westmont Drive	Signalized	City of Rancho Palos Verdes/Caltrans/City of Los Angeles
21	Western Avenue/Toscanini Drive	Signalized	City of Rancho Palos Verdes/Caltrans
22	Western Avenue/Caddington Drive	Signalized	City of Rancho Palos Verdes/Caltrans
23	Western Avenue/Capitol Drive	Signalized	City of Rancho Palos Verdes/Caltrans/City of Los Angeles
24	Western Avenue/Park Western Drive	Signalized	City of Rancho Palos Verdes/Caltrans/City of Los Angeles
25	Western Avenue/Crestwood Street	Signalized	City of Rancho Palos Verdes/Caltrans/City of Los Angeles
26	Western Avenue/Summerland Avenue	Signalized	City of Rancho Palos Verdes/Caltrans
27	Western Avenue/W. 1st Street	Signalized	City of Los Angeles/Caltrans
28	Western Avenue/S. Weymouth Avenue	Signalized	City of Los Angeles/Caltrans
29	Western Avenue/W. 9th Street	Signalized	City of Los Angeles/Caltrans
30	Western Avenue/W. 25th Street	Signalized	City of Los Angeles/Caltrans
31	S. Weymouth Avenue/W. 9th Street	Signalized	City of Los Angeles
32	Normandie Avenue/Sepulveda Boulevard	Signalized	County of Los Angeles
33	Normandie Avenue/Lomita Boulevard	Signalized	County of Los Angeles
34	Normandie Avenue/Pacific Coast Highway	Signalized	City of Los Angeles/Caltrans
35	Vermont Avenue/Normandie Avenue	Unsignalized	City of Los Angeles
36	Anaheim Street-Gaffey Street-Palos Verdes Drive North/Vermont Avenue	Signalized	City of Los Angeles
37	Gaffey Street/Westmont Drive	Signalized	City of Los Angeles
38	Gaffey Street/Capitol Drive	Signalized	City of Los Angeles
39	Gaffey Street/Channel Street	Signalized	City of Los Angeles
40	Gaffey Street/Miraflores Avenue-I-110 Freeway SB On-Off Ramps	Signalized	City of Los Angeles/Caltrans
41	Gaffey Street/Summerland Avenue	Signalized	City of Los Angeles
42	Gaffey Street/I-110 Freeway SB & NB Ramps-SR-47 Eastbound On-Ramp	Signalized	City of Los Angeles/Caltrans
43	Gaffey Street/ W. 9th Street	Signalized	City of Los Angeles
44	Vermont Avenue/Sepulveda Boulevard	Signalized	County of Los Angeles/Caltrans
45	Vermont Avenue/Lomita Boulevard	Signalized	County of Los Angeles/City of Los Angeles
46	Vermont Avenue/Pacific Coast Highway	Signalized	City of Los Angeles
47	I-110 Freeway SB On-Off Ramps/Pacific Coast Highway	Signalized	City of Los Angeles/Caltrans
48	Figueria Place/I-110 Freeway SB Off-Ramp (north of Anaheim Street)	Unsignalized	City of Los Angeles/Caltrans
49	Figueria Place/Anaheim Street	Signalized	City of Los Angeles
50	Figueria Street/Sepulveda Boulevard	Signalized	City of Carson
51	Figueria Street/I-110 Freeway NB On-Ramp (north of PCH)	Unsignalized	City of Los Angeles/Caltrans
52	Figueria Street/Pacific Coast Highway	Signalized	City of Los Angeles/Caltrans
53	Figueria Street/I-110 Freeway NB On-Ramp (north of Anaheim Street)	Unsignalized	City of Los Angeles/Caltrans
54	Figueria Street/Anaheim Street	Signalized	City of Los Angeles
55	Wilmington Boulevard/Pacific Coast Highway	Signalized	City of Los Angeles
56	Wilmington Boulevard/Anaheim Street	Signalized	City of Los Angeles



NOTES:

[A] NO RIGHT-TURN ON RED

[B] OVERLAPPING RIGHT-TURN

[C] FREE-FLOW MOVEMENT

Ø X SIGNAL PHASING

STOP SIGN

NOT TO SCALE

LINSCOTT, LAW & GREENSPAN, engineers

FIGURE 4-1  
EXISTING LANE CONFIGURATIONS

PONTE VISTA AT SAN PEDRO PROJECT



Table 4-2  
Existing Roadway Descriptions

Primary Street	Segments	Classification	LANES		Median Types		Parking Restrictions		Speed Limit
			NB/EB	SB/WB	NB/EB	SB/WB	NB/EB	SB/WB	
Sepulveda Boulevard	from Figueroa St	to I-110 NB Off Ramp	2	2	RM	NPAT	NPAT	NSAT	40
	from I-110 NB Off Ramp	to I-110 NB On Ramp	3	3	RM	NSAT	NSAT	NSAT	40
	from I-110 SB On Ramp	to I-110 SB Off ramp	3	3	RM	NSAT	NSAT	NSAT	40
	from I-110 SB Off ramp	to Vermont Ave	3	3	RM	NSAT	NSAT	NSAT	40
	from Vermont Ave	to Mariposa Ave	3	3	RM	NSAT	NSAT	NSAT	40
	from Mariposa Ave	to Normandie Ave	2/3	3	RM	NSAT 7a-9a, 4p-6p	NSAT	NSAT	40
	from Normandie Ave	to Lockness Ave	3	3	RM/2LT	NSAT	NSAT	NSAT	40
	from Lockness Ave	to Western Ave	3	3	2LT/RM	NSAT / TANSAT	NSAT / NPAT	NSAT	40
	from Western Ave	to Border Ave	3	3	RM	NSAT	NSAT	NSAT	40
	from Border Ave	to Carbrillo Ave	3	3	RM/DY	NSAT	NSAT	NSAT	40
	from Carbrillo Ave	to Gramercy Ave	3	3	DY/2LT	NSAT	NSAT	NSAT	40
	from Gramercy Ave	to Arlington Ave	3	3	DY/2LT	NSAT	NSAT	NSAT	40
	from Arlington Ave	to Orange Ave	3	3	DY/2LT	NSAT	NSAT	NSAT	40
	from Orange Ave	to Cypress St	3	3	RM	NSAT	NSAT	NSAT	40
	from Cypress St	to Plum Ave	3	3	RM	NSAT	NSAT	NSAT	40
	from Plum Ave	to Crenshaw Blvd	3	4	RM	NSAT	NSAT	NSAT	40
	from Crenshaw Blvd	to Eriel Ave	3	4	RM	NSAT	NSAT	NSAT	40
	from Eriel Ave	to Fern Ave	3	4	DY/2LT	NSAT	NSAT	NSAT	40
	from Fern Ave	to Hickory Ave	3	4	DY	NSAT	NSAT	NSAT	40
	from Hickory Ave	to Maple Ave	3	4	DY/2LT/RM	NSAT	NSAT	NSAT	40
	from Maple Ave	to Madrona Ave	3	3	RM/2LT	NSAT	NSAT	NSAT	40
	from Madrona Ave	to Del Amo Circle East	3	3	RM/DY	NSAT	NSAT	NSAT	40
	from Del Amo Circle East	to Madison St	3	3	DY	NSAT	NSAT	NSAT	40
	from Madison St	to Ward St	3	3	2LT/DY	NSAT	NSAT	NSAT	40
	from Ward St	to Hawthorne Blvd	3	3	DY	NSAT	NSAT	NSAT	40
Lomita Boulevard	from Figueroa St	to McCoy Ave	2	2	RM	NPAT	NPAT	NPAT	40
	from McCoy Ave	to Vermont Ave	2	2	RM	NSAT / NS 10p-6a	NSAT / TAMP 10p-6a nightly	PA / NPAT commercial vehicles	40
	from Vermont Ave	to Marigold Ave	2	2	RM	PA	PA / NPAT commercial vehicles	PA / NPAT commercial vehicles	40
	from Marigold Ave	to Normandie Ave	2	2	RM	PA	PA / TAMP 10p-6a nightly	PA / TAMP 10p-6a nightly	35
	from Normandie Ave	to President Ave	2	2	Rm	NSAT	PA	TANSAT	35
	from President Ave	to Western Ave	2	2	2LT	PA	2hr 8a-6p Ex. S	2hr 7a-6p Daily Ex. S / NSAT	35
	from Western Ave	to Ebony Lane	2	2	DY	DY/2LT/RM	NP W 6a-8a	NPAT/PA NP R 6a-8a	40
	from Ebony Lane	to Walnut St	2	2	DY/2LT	NP W 6a-8a	NP R 6a-8a	NP R 6a-8a	40
	from Walnut St	to Eshelman Ave	2	2	DY/2LT	NP W 6a-8a	NP R 6a-8a	NP R 6a-8a	40
	from Eshelman Ave	to Oak St	2	2	DY/2LT	NP W 6a-8a	NP R 6a-8a	NP R 6a-8a	40
	from Oak St	to Woodward Ave	2	2	DY/2LT	NP W 6a-8a	NP R 6a-8a	NP R 6a-8a	40
	from Woodward Ave	to Narbonne Ave	2	2	RM	NP W 6a-8a	NP R 6a-8a	NP R 6a-8a	40
	from Narbonne Ave	to Allene Ave	2	2	RM	NP W 6a-8a	NP R 6a-8a	NP R 6a-8a	40
	from Allene Ave	to Moon Ave	2	2	RM	NP W 6a-8a	NP R 6a-8a	NP R 6a-8a	40
	from Moon Ave	to Lucille Ave	2	2	RM	NP W 6a-8a	NP R 6a-8a	NP R 6a-8a	40
	from Lucille Ave	to Cypress St	2	2	RM	NP W 6a-8a	NP R 6a-8a	NP R 6a-8a	40
	from Cypress St	to Lomita Dr	2	2	RM	NP W 6a-8a	NP R 6a-8a	NP R 6a-8a	40
	from Lomita Dr	to Pennsylvania Ave	2	2	DY	NSAT	NSAT	NSAT	40
	from Pennsylvania Ave	to Hawthorne Blvd	2	2	DY	NSAT	NSAT	NP R 6a-8a	35
	from Hawthorne Blvd	to Lomita Dr	2	2	DY	NSAT	NSAT	NP R 6a-8a	35
	from Lomita Dr	to Pennsylvania Ave	2	2	DY	NSAT	NSAT	NP R 6a-8a	35
	from Pennsylvania Ave	to Hawthorne Blvd	2	2	DY	NSAT	NSAT	NP R 6a-8a	35
	from Hawthorne Blvd	to Lomita Dr	2	2	DY	NSAT	NSAT	NP R 6a-8a	35
	from Lomita Dr	to Pennsylvania Ave	2	2	DY	NSAT	NSAT	NP R 6a-8a	35
	from Pennsylvania Ave	to Hawthorne Blvd	2	2	DY	NSAT	NSAT	NP R 6a-8a	35
	from Hawthorne Blvd	to Lomita Dr	2	2	DY	NSAT	NSAT	NP R 6a-8a	35
	from Lomita Dr	to Pennsylvania Ave	2	2	DY	NSAT	NSAT	NP R 6a-8a	35
	from Pennsylvania Ave	to Hawthorne Blvd	2	2	DY	NSAT	NSAT	NP R 6a-8a	35
	from Hawthorne Blvd	to Lomita Dr	2	2	DY	NSAT	NSAT	NP R 6a-8a	35

See last page of this worksheet for Footnotes and Abbreviations

Table 4-2 (Continued)  
Existing Roadway Descriptions

Primary Street	Segments	Classification	LANES		Median Types	Parking Restrictions		Speed Limit
			NB/EB	SB/WB		NB/EB	SB/WB	
from Pennsylvania Ave to Crenshaw Blvd		Major Highway	2	2	DY/2LT	NSAT / NP W 6a-8a	NP R 6a-8a / RC	35
from Crenshaw Blvd to Madison St		Minor Arterial	2	2	DY/2LT	NSAT	NSAT	45
from Madison St to Samuel St		Minor Arterial	2	2	DY/2LT	NSAT	PA	45
from Samuel St to Hawthorne Blvd		Minor Arterial	2	2	DY/2LT	NSAT	PA	45
<b>Pacific Coast Highway</b>								
from Wilmington Blvd to Figueroa St		Major Highway Class II	3	3	DY	NS 7a-9a 4p-6p Ex. Sa and S	NS 7a-9a 4p-6p Ex. Sa and S	40
from Figueroa St to I-110 SB Ramps		Major Highway Class II	2	3	DY	NSAT	NSAT	40
from I-110 SB Ramps to Figueroa Pl		Major Highway Class II	2	3	DY	NSAT	NSAT	40
from Figueroa Pl to Bixby Ave		Major Highway Class II	3	3	2LT	TANS 6a-930a 3p-7p M-Sa, 1hr 930a-3p Ex. S	TANS 6a-930a 3p-7p M-Sa, 1hr 930a-3p Ex. S	40
from Bixby Ave to Vermont Ave		Major Highway Class II	3	3	DY	TANS 6a-930a 3p-7p M-Sa, 1hr 930a-3p Ex. S	TANS 6a-930a 3p-7p M-Sa, 1hr 930a-3p Ex. S	40
from Vermont Ave to Normandie Ave		Major Highway Class II	3	3	DY	TANSAT	TANS 6a-930a 3p-7p M-Sa, 1hr 930a-3p Ex. S	40
from Normandie Ave to Oak St		Major Highway Class II	3	3	DY/2LT	TANS 6a-930a 3p-7p M-F, 2hr 930a-3p Ex. S	TANS 6a-930a 3p-7p M-Sa, 1hr 930a-3p Ex. S	40
from Oak St to Narbonne Ave		Major Highway	3	3	DY/2LT	TANS 6a-930a 3p-7p M-F, 2hr 930a-3p Ex. S	TANS 6a-930a 3p-7p M-F, 2hr 930a-3p Ex. S	35
from Narbonne Ave to Reed Dr		Major Highway	3	3	DY/2LT	TANS 6a-930a 3p-7p M-F, 2hr 930a-3p Ex. S	TANS 6a-930a 3p-7p M-F, 2hr 930a-3p Ex. S	35
from Reed Dr to Pennsylvania Ave		Major Highway	3	3	DY/2LT	TANS 6a-930a 3p-7p M-F, 2hr 930a-3p Ex. S	TANS 6a-930a 3p-7p M-F, 2hr 930a-3p Ex. S	35
from Pennsylvania Ave to Hillworth Ave		Major Arterial	3	3	DY/2LT	TANS 6a-930a 3p-7p M-F, 2hr 930a-3p Ex. S	NSAT	35
from Hillworth Ave to Airport Dr		Major Arterial	3	3	DY/2LT	NSAT	NSAT	45
from Airport Dr to Crenshaw Blvd		Major Arterial	3	3	DY	NSAT	NSAT	45
from Crenshaw Blvd to Ward St		Major Arterial	2	3	DY	NSAT	NSAT	45
from Ward St to Hawthorne Blvd		Major Arterial	3	3	RM	NSAT	NSAT	45
<b>Anaheim Street</b>								
from Wilmington Blvd to Figueroa St		Major Highway Class II	2	2	DY	TANSAT	TANSAT	35
from Figueroa St to Figueroa Pl		Major Highway Class II	2	2	DY	NSAT	PA / NSAT	35
from Figueroa Pl to Gaffey/Normandie/PV		Major Highway Class II	2	2	DY	NSAT	NSAT	35
from Gaffey/Normandie/PV to Frampton Ave		Major Highway Class II	2	2	DY	RC / PA	RC / PA	35
from Frampton Ave to President Ave		Major Highway Class II	2	2	DY	PA	PA	35
from President Ave to Governor Ave/260th St		Major Highway Class II	2	2	DY	2hr 8a-6p	2hr 8a-6p	35
from Governor Ave/260th St to Western Ave		Major Highway Class II	2	1	DY	PA / 15min 8a-6p	PA	35
<b>Palos Verdes Drive North</b>								
from Gaffey/Anaheim St to Senator Ave		Major Highway Class II	3	3	RM	NSAT	NSAT	45
from Senator Ave to President Ave		Major Highway Class II	3	3	RM	NSAT	PA	45
from President Ave to Leesdale Ave		Major Highway Class II	3	3	RM	NP F 6a-8a	PA	45
from Leesdale Ave to Western Ave		Major Highway Class II	3	3	RM	2hr 9a-8p NP F 6a-8a	PA	45
from Western Ave to Rolling Vista Dr		Secondary Arterial	3	3	RM	NPAT / 2hr 7a-6p daily	NP F 8a-10a	45
from Rolling Vista Dr to Eastvale Rd		Secondary Arterial	3	3	RM	NPAT	NP F 8a-10a	45
from Eastvale Rd to Crenshaw Blvd		Secondary Arterial	1	1	2LT/RM	NPAT	NPAT	40
from Crenshaw Blvd to Silver Saddle/Moccasin		Secondary Arterial	2	1	RM	NPAT	NPAT	40
from Silver Saddle/Moccasin to Hawthorne Blvd		Secondary Arterial	1	1	DY	NPAT	NPAT	40

See last page of this worksheet for Footnotes and Abbreviations

Table 4-2 (Continued)  
Existing Roadway Descriptions

Primary Street	Segments	Classification	LANES		Median Types	Parking Restrictions		Speed Limit
			NB/EB	SB/WB		NB/EB	SB/WB	
Westmont Drive								
from Gaffey St to Mount Shasta Dr to Stonewood Ct to Stonewood Ct	to Mount Shasta Dr	Secondary Arterial	2	2	DY	NSAT / RC	NSAT / RC	35
	to Stonewood Ct	Secondary Arterial	2	2	DY	NSAT	PA	35
	to Western Ave	Secondary Arterial	2	2	DY/2LT	TANSAT	TANSAT	35
Capitol Drive								
from Gaffey St to Meyler St to Brett Pl to Brett Pl	to Meyler St	Secondary Arterial	1	2	DY	PA	PA / TANSAT	35
	to Brett Pl	Secondary Arterial	2	2	DY/2LT	PA	PA	35
	to Western Ave	Secondary Arterial	2	1	DY/2LT	PA / TANSAT	PA / TANSAT	35
Summerland Avenue								
from Gaffey St to Harbor View Ave to Harbor View Ave	to Harbor View Ave	Secondary Arterial	1	1	DY	PA	PA	30
	to Western Ave	Secondary Arterial	1	1	DY	PA / 30min GC	PA / RC	30
9th Street								
from Gaffey St to Ellery Dr to Ellery Dr	to Ellery Dr	Major Highway Class II	1	1	DY	PA / 2hr 8a-6p Ex. S MP	PA / NP R 4p-630p	35
	to Malgren Ave	Major Highway Class II	1	1	DY/2LT	PA	PA / NP R 4p-630p	35
	to Western Ave	Major Highway Class II	1	1	DY	RC / PA	RC / TANSAT	35
Figueroa Street								
from Sepulveda Blvd to Lomita Blvd to W. Q St to I-110 NB On ramp to PCH to PCH to Denni St to Denni St to Grant St to I-110 NB On ramp to I-110 NB On ramp	to Lomita Blvd	Major Highway	2	2	RM/DY	NPAT / PA	NPAT / PA	40
	to W. Q St	Major Highway Class II	2	2	RM/2LT	PA / NSAT	NPAT	35
	to I-110 NB On ramp	Major Highway Class II	2	2	RM/2LT	PA / TANP 10p-6a nightly	PA	35
	to PCH	Major Highway Class II	2	2	RM	PA / TANP 10p-6a nightly	NSAT	35
	to PCH	Major Highway Class II	2	2	DY	NSAT	NSAT	35
	to Denni St	Major Highway Class II	2	2	2LT	PA	NSAT	35
	to Grant St	Major Highway Class II	2	2	DY/2LT	PA	NSAT	35
	to I-110 NB On ramp	Major Highway Class II	2	2	DY	PA / RC	2hr 8a-6p Ex. S / RC	35
	to Anaheim St	Major Highway Class II	2	2				
	to Stonebryn Dr	Major Highway	2	2				
Vermont Avenue								
from Sepulveda Blvd to Stonebryn Dr to 245th St to Lomita Blvd to 253rd St to 253rd St to Bixby Ave to Bixby Ave to PCH to PCH	to Stonebryn Dr	Major Highway	2	2	RM	PA / NSAT	RC / PA	40
	to 245th St	Major Highway	2	2	RM	NPAT commercial vehicles over 5 tons	PA	40
	to Lomita Blvd	Major Highway	2	2	RM	NPAT commercial vehicles over 5 tons	NPAT commercial vehicles over 5 tons	40
	to 253rd St	Major Highway Class II	2	2	RM/2LT	NP R 12p-230p	NP W 12p-2p	35
	to 253rd St	Major Highway Class II	2	2	DY/2LT	NP R 12p-230p	NP W 12p-2p	35
	to Bixby Ave	Major Highway Class II	1	2	DY	NSAT	NP W 12p-2p	45
from Bixby Ave to PCH to PCH	to PCH	Major Highway Class II	1	2	DY	NSAT	NP W 12p-2p	45
	to Normandie Ave	Major Highway Class II	2	2	DY/2LT	NPAT 10p-6a nightly / NSAT / PA	TANSAT / 10p-6a nightly	45
Normandie Avenue								
from Sepulveda Blvd to Lomita Blvd to PCH	to Lomita Blvd	Secondary Highway	2	2	2LT	NSAT	NSAT	45
	to PCH	Major Highway Class II	2	2	RM/2LT	NP R 12p-230p, 2hr 8a-6p Ex. Sa and S	PA, NP W 12p-2p	45
from PCH to Vermont Ave to Vermont Ave	to Vermont Ave	Major Highway Class II	2	2	2LT	PA	2hr 8a-6p	45
	to Anaheim St	Major Highway Class II	2	1	2LT	10p-6a nightly / PA / TANSAT	2hr 8a-6p / PA	45
Gaffey Street								
from Anaheim St to Westmont Dr to Capitol Dr to Gatun St to Basin St to Basin St to Battery St to Battery St	to Westmont Dr	Major Highway Class II	2	2	DY/2LT	NSAT	NSAT / PA, NP 11p-5a nightly	45
	to Capitol Dr	Major Highway Class II	2	2	DY/2LT	NSAT	NP 11p-5a nightly / NPAT	40
	to Gatun St	Major Highway Class II	2	2	DY/2LT	NSAT	RC / PA	40
	to Basin St	Major Highway Class II	2	2	2LT	PA	PA	40
	to Basin St	Major Highway Class II	2	2	DY/2LT	PA	2hr 8a-6p	40
	to Channel St	Major Highway Class II	2	2	DY	RC	PA	40

See last page of this worksheet for Footnotes and Abbreviations

Table 4-2 (Continued)  
Existing Roadway Descriptions

Primary Street	Segments	Classification	LANES		Median Types	Parking Restrictions		Speed Limit
			NB/EB	SB/WB		NB/EB	SB/WB	
from Channel St to Miraflores Ave	to 110 SB Offramps	Major Highway Class II	2	2	DY	NSAT	RC	40
from Miraflores Ave to 110 SB Offramps	to 110 NB Onramps	Major Highway Class II	2	2	DY	NSAT	RC / NSAT	40
from 110 SB Offramps to Sepulveda St		Major Highway Class II	2	3	RM	NSAT	NSAT	35
from Sepulveda St to Santa Cruz St		Major Highway Class II	2	3	DY	NSAT	NS 3p-7p / NSAT	35
from Santa Cruz St to 1st St		Major Highway Class II	3	3	DY	NSAT	NS 3p-7p / NSAT	35
from 1st St to 2nd St		Major Highway Class II	3	3	DY	NSAT	NS 7a-7p, NP W 4a-630a	35
from 2nd St to 3rd St		Major Highway Class II	3	3	DY	NS 7a-9a, 4p-6p, NP R 4a-630a	NS 7a-7p, NP W 4a-630a	35
from 3rd St to 4th St		Major Highway Class II	3	3	DY	NS 7a-9a, 4p-6p, NP R 4a-630a	NS 7a-7p, NP W 4a-630a	35
from 4th St to 5th St		Major Highway Class II	3	2	DY	NS 7a-9a, 4p-6p, 1hr 9a-4p	NS 7a-7p, NP W 4a-630a	35
from 5th St to 6th St		Major Highway Class II	2	2	DY	1hr 8a-6p Ex. Sa and S, NP R 4a-630a	1hr 8a-6p Ex. Sa and S, NP W 4a-630a	35
from 6th St to 7th St		Major Highway Class II	2	2	DY	1hr 8a-6p Ex. Sa and S, NP R 4a-630a	30 min 8a-6p, NP W 4a-630a	35
from 7th St to 8th St		Major Highway Class II	2	2	DY	30min 8a-6p, NP R 4a-630a	1hr 8a-6p Ex. Sa and S, NP W 4a-630a	35
from 8th St to Western Avenue		Major Highway Class II	2	2	DY	1hr 8a-6p Ex. Sa and S, NP R 4a-630a	1hr 8a-6p Ex. Sa and S, NP W 4a-630a	35
from Sepulveda Blvd to 237th St		Major Highway Class II	2	2	RM	PA	PA / NPAT	40
from 237th St to 242nd Pl		Major Highway Class II	2	2	RM	PA	NSAT	35
from 242nd Pl to 247th St		Major Highway Class II	2	2	RM	15m 7a-5p school/2hr 9a-1:30p/NS 7a-5p	PA	35
from 247th St to 249th St		Major Highway Class II	2	2	RM	PA	PA	35
from 249th St to Lomita Blvd		Major Highway Class II	2	2	RM	PA	PA / RC	35
from Lomita Blvd to 254th St		Major Highway Class II	2	2	RM	PA	RC / PA	35
from 254th St to 255th St		Major Highway Class II	2	2	RM	PA	2hr 8a-Midnight daily	35
from 255th St to 256th St		Major Highway Class II	2	2	RM	PA	PA	35
from 256th St to 257th St		Major Highway Class II	2	2	RM	PA	PA	35
from 257th St to PCH		Major Highway Class II	2	2	DY	PA	RC / PA	35
from PCH to 258th Pl		Major Highway Class II	2	2	DY	PA	RC	35
from 258th Pl to 259th Pl		Major Highway Class II	2	2	DY	PA	RC	35
from 259th Pl to Anaheim St		Major Highway Class II	2	2	RM	PA	PA	35
from Anaheim St to 263rd St		Major Highway Class II	2	2	RM	NSAT / PA	RC	35
from 263rd St to Hillcrest Ave		Major Highway Class II	2	2	RM	NP F 6a-8a	NP F 6a-8a	35
from Hillcrest Ave to Leesdale Ave		Major Highway Class II	2	2	RM	2hr 7a-6p NP F 6a-8a	NP F 6a-8a	35
from Leesdale Ave to Palos Verdes Dr N		Major Highway Class II	2	2	RM	NSAT / NP F 6a-8a	NP F 6a-8a, 1hr 7a-6p	35
from Palos Verdes Dr N to Peninsula Verde Dr		Major Highway Class II	2	2	RM	NSAT / NP F 6a-8a	NP F 6a-8a	35
from Peninsula Verde Dr to Fitness Dr		Major Highway Class II	2	2	RM	NP F 6a-8a	NP F 6a-8a	35/45
from Fitness Dr to Westmont Dr		Major Highway Class II	2	2	RM	PA	NS 7a-9a 3p-7p Ex. Sa and S	35/45
from Westmont Dr to Park Western Dr		Major Highway Class II	2	2	RM	NP 7a-9a, 3p-7p Ex. Sa and S	NS 7a-9a 3p-7p Ex. Sa and S	35/45
from Park Western Dr to Crestwood St		Major Highway Class II	2	2	RM	NP 7a-9a, 3p-7p Ex. Sa and S	NS 7a-9a 3p-7p Ex. Sa and S	35
from Crestwood St to Summerland Ave		Major Highway Class II	2	2	RM	NS 4p-6p	NS 7a-9a 3p-7p Ex. Sa and S	35
from Summerland Ave to Santa Cruz St		Major Highway Class II	2	2	RM	NS 4p-6p	PA	35
from Santa Cruz St to W. 1st St		Major Highway Class II	2	2	DY/2LT	PA, NS 4p-6p Ex. Sa and S	NS 3p-7p Ex. Sa and S	35
from W. 1st St to Weymouth Ave		Major Highway Class II	2	2	RM	PA, NS 4p-6p Ex. Sa and S	NSAT	35
from Weymouth Ave to Bynner Dr		Major Highway Class II	2	2	RM	NSAT	None	40
from Bynner Dr to 9th St		Major Highway Class II	2	2	2LT	NSAT	None	40

See last page of this worksheet for Footnotes and Abbreviations

Table 4-2 (Continued)  
Existing Roadway Descriptions

Primary Street	Segments	Classification	LANES			Median Types	Parking Restrictions		Speed Limit
			NB/EB	SB/WB			NB/EB	SB/WB	
Weymouth Avenue									
from Western Ave to 7th St		Secondary Arterial	1	1		DY/2LT	15min 7a-5a, NS 7a-5p School Days	PA	35
from 7th St to 8th St		Secondary Arterial	1	1		DY	PA	PA	35
from 8th St to 9th St		Secondary Arterial	1	1		DY/2LT	RC	PA	35
Arlington Avenue/Narbonne Avenue/Palos Verdes Drive East									
from Sepulveda Blvd to 230th St		Secondary Highway	1	2		DY	RC	PA	35
from 230th St to 231st St		Secondary Highway	1	1		2LT	NP F 10a-2p	PA	35
from 231st St to 232nd St		Secondary Highway	1	1		DY	PA	PA	35
from 232nd St to 235th St		Secondary Highway	1	1		DY	PA	PA	35
from 235th St to 236th Pl		Secondary Highway	1	1		DY/2LT	PA	NP F 10a-2p	35
from 236th Pl to 238th St		Secondary Highway	1	1		DY/2LT	PA	2hr 9a-6p	35
from 238th St to 239th St		Secondary Highway	1	1		DY/2LT	PA	NP F 12p-4p	25
from 239th St to 240th St		Secondary Highway	1	1		2LT	NP F 12p-4p	PA	25
from 240th St to 241st St		Secondary Highway	2	1		RM/2LT	PA	PA	25
from 241st St to 242nd St		Secondary Highway	2	1		DY	PA	PA	25
from 242nd St to 243rd St		Secondary Highway	1	1		DY	PA	2hr 7a-6p daily	25
from 243rd St to 245th St		Secondary Highway	1	1		DY	NSAT	PA	25
from 245th St to Lomita Blvd		Secondary Highway	1	1		DY	PA/RC	PA	25
from Lomita Blvd to 247th St		Secondary Highway	1	1		DY	1hr 7a-6p, NP W 6a-8a	NP R 6a-8a	30
from 247th St to 250th St		Secondary Highway	2	2		DY	NP W 6a-8a	NP R 6a-8a	30
from 250th St to 253rd Pl		Secondary Highway	2	2		DY	1hr 7a-6p, NP W 6a-8a	1hr 7a-6p, NP R 6a-8a	35
from 253rd Pl to 254th St		Secondary Highway	2	2		DY	1hr 7a-6p, NP W 6a-8a	NP R 6a-8a	35
from 254th St to 255th St		Secondary Highway	2	2		DY	NP W 6a-8a	NP R 6a-8a	35
from 255th St to 256th St		Secondary Highway	2	2		DY	NP W 6a-8a	1hr 7a-6p, NP R 6a-8a	35
from 256th St to PCH		Secondary Highway	2	2		DY	1hr 7a-6p, NP W 6a-8a	PA	35
from PCH to Vista Lomita Ln		Secondary Highway	2	2		DY	NP W 8a-10a	RC / PA	35
from Vista Lomita Ln to Visloma Pl		Secondary Highway	2	2		DY	NP W 8a-10a	NSAT	35
from Visloma Pl to Bridlewood Cir		Major Highway	2	2		DY	NP W 8a-10a	NP R 6a-8a	35
from Bridlewood Cir to Club View Ln		Major Highway	1	1		DY	NPAT	NPAT	40
from Club View Ln to Palos Verdes Dr N.		Major Highway	1	1		RM/2LT	NPAT	NPAT / PA	40
Crenshaw Boulevard									
from Sepulveda Blvd to 255th Pl		Major Arterial	4	3		RM	NSAT	NSAT	45
from 255th Pl to 227th St		Major Arterial	3	3		RM	NSAT	NSAT	45
from 227th St to Lomita Blvd		Major Arterial	3	3		DY/2LT	NSAT	NSAT	45
from Lomita Blvd to Skypark Dr		Major Highway	3	3		DY/2LT	NSAT	NSAT	45
from Skypark Dr to Airport Dr		Major Highway	3	3		DY/RM	NSAT	NSAT	45
from Airport Dr to PCH		Major Highway	3	3		RM/DY/2LT	NSAT	NSAT	45
from PCH to Hidden Ln		Major Highway	3	3		RM	NSAT	NSAT	45
from Hidden Ln to Palos Verdes Dr N.		Major Arterial	3	3		RM	NSAT	NSAT	45/TS

See last page of this worksheet for Footnotes and Abbreviations



Table 4-2 (Continued)  
Existing Roadway Descriptions

Primary Street	Segments	Classification	LANES		Median Types		Parking Restrictions		Speed Limit
			NB/EB	SB/WB			NB/EB	SB/WB	
Hawthorne Boulevard	from Sepulveda Blvd to 240th St	Principal Arterial	4	4	RM	NSAT	NSAT	NSAT	40
	from 240th St to PCH	Principal Arterial	3	3	RM	NSAT / NS 6a-9a Ex. Sa and S, 1hr 9a-6p	PA	PA	40
	from PCH to 242nd St	Principal Arterial	3	3	RM	NSAT	NSAT	NSAT	40
	from 242nd St to 244th St	Principal Arterial	3	3	RM	NSAT / 1hr 9a-6p Ex. Sa and S	NSAT	NSAT	40
	from 244th St to Newton St	Principal Arterial	3	3	RM	1hr 9a-6p Ex. S, NS 6a-9a Ex. Sa and S	NSAT / 1hr 9a-4p NS 4p-7p	NSAT	40
	from Newton St to Rolling Hills Dr	Principal Arterial	3	3	RM	1hr 9a-6p Ex. S, NS 6a-9a Ex. Sa and S	NSAT	NSAT	40
	from Rolling Hills Dr to Palos Verdes Dr N.	Principal Arterial	2	2	RM	None	None	None	45
	Wilmington Boulevard								
John S Gibson Boulevard	from PCH to Anaheim St	Secondary Highway	1	2	DY/2LT	PA / RC	PA / RC	PA / RC	35
	from Anaheim St to C Street	Secondary Highway	2	2	DY	PA / RC	PA / RC	PA / RC	35
	from C Street to Harry Bridges Blvd	Secondary Highway	2	2	DY	PA	PA	PA	35
Pacific Avenue	from Figueroa St to Wilmington Blvd	Major Highway Class II	2	2	DY	TANSAT	TANSAT	TANSAT	35
	from Harry Bridges Blvd to I-110 NB Ramps	Major Highway Class II	2	2	RM/DY	TANSAT	TANSAT	TANSAT	40
	from I-110 NB Ramps to Channel St	Major Highway Class II	2	2	DY	TANSAT	TANSAT	TANSAT	40
Channel Street	from Gaffey Street to Pacific Ave	Major Highway Class II	2	2	DY	TANSAT	TANSAT	TANSAT	30

Footnotes and Abbreviations:

*Lanes*  
# Number of lanes  
## Off peak hr # of lanes/Peak hr # of lanes  
x=>y Changed from x number of lanes to y number of lanes

*Median Type*  
DY Double Yellow  
RM Raised Median  
2LT 2-Way Left-Turn pocket

*Parking*  
TANSAT Tow-Away No Stopping AnyTime  
NSAT No Stopping AnyTime  
NPAT No Parking AnyTime  
RC Red Curb  
NP No Parking  
MP Metered Parking  
/ Change in Parking Restriction  
None No parking restrictions  
NS No Stopping  
PA Parking Available  
GC Green Curb  
TS Truck Speed - 25mph  
TANP Tow-Away No Parking

Ex. Except  
M Monday  
T Tuesday  
W Wednesday  
R Thursday  
F Friday  
Sa Saturday  
S Sunday  
H Holiday

#### 4.4 Existing Public Bus Transit Service

Public bus transit service in the project study area is currently provided by the Los Angeles County Metropolitan Transportation Authority (Metro) and LADOT. A summary of the existing transit routes, including the transit route, destinations and peak hour headways on roadways within the project study area is presented in **Table 4-3**. The existing public transit routes in the proposed project site vicinity are illustrated in **Figure 4-2**.

Table 4-3  
EXISTING TRANSIT ROUTES

ROUTE	DESTINATIONS	ROADWAY NEAR SITE	NO. OF BUSES DURING PEAK PERIOD		
			DIR	AM	PM
Metro 205 [1]	San Pedro to Willowbrook (Lomita, Harbor City, Carson, Compton)	Western Avenue, Palos Verdes Drive North	NB SB	3 3	2 2
Metro 246-247 [1]	Los Angeles to San Pedro (Wilmington, Carson)	John Gibbs Boulevard, Harbor Beacon Park-Ride Lot	NB SB	2 2	2 2
Metro 232 [1]	Long Beach to LAX (Wilmington, Harbor City, Torrance, Redondo Beach)	Pacific Coast Highway, Western Avenue	NB SB	7 5	4 5
Metro 344 [1]	Rancho Palos Verdes to Los Angeles (Torrance, Harbor Gateway)	Hawthorne Boulevard, Pacific Coast Highway	NB SB	3 5	4 3
Metro 445 [1]	San Pedro to Downtown LA (Harbor Gateway)	Figueria Street, Pacific Coast Highway	NB SB	2 2	2 2
Metro 550 [1]	San Pedro to West Hollywood (Harbor City, Harbor Gateway, Exposition Park, Midcity, Beverly Hills)	Normandie Avenue, Pacific Coast Highway	NB SB	2 2	2 2
Beach Cities 104 [2] (Redondo Transit)	Redondo Beach Pier to Del Amo Fashion Center (Riviera Village, Torrance)	Sepulveda Boulevard	NB SB	1 1	1 1
Commuter Express CE 448 [3]	Rancho Palos Verdes to Downtown Los Angeles	Western Avenue, Pacific Coast Highway	EB WB	3 0	0 4
LADOT DASH San Pedro [3]	San Pedro	Western Avenue, Gaffey Street Crestwood Street, Summerland	NB SB	3 3	3 3
Gardena Municipal Bus Line 2 [4]	Western Avenue (circulator)	Western Avenue, Pacific Coast Highway	NB SB	2 2	3 3
MAX Line 2 [5]	Palos Verdes Peninsula	Hawthorne Boulevard, Palos Verdes Drive North	NB SB	2 0	0 2

[1] Source: Los Angeles County Metropolitan Transportation Authority (Metro) Website.

[2] Source: City of Redondo Beach Transit (Beach Cities) Website.

[3] Source: Los Angeles Department of Transportation (LADOT) Website.

[4] Source: City of Gardena (Gardena Municipal Bus Line) Website.

[5] Source: Municipal Area Express (MAX) Website.

[6] Source: Palos Verdes Peninsula Transit Authority (PVPTA) Website.

[7] Source: City of Torrance (Torrance Transit) Website.

Table 4-3 (Continued)  
EXISTING TRANSIT ROUTES

ROUTE	DESTINATIONS	ROADWAY NEAR SITE	NO. OF BUSES DURING PEAK PERIOD		
			DIR	AM	PM
MAX Line 3 [5]	San Pedro to Torrance	Western Avenue, Capital Drive	NB SB	0 0	0 2
MAX Line 3x [5]	Freeway Express	Gaffery Street, 9th Street	NB SB	1 0	0 3
PVPTA Green Route [6]	Miraleste Plaza to Ridgcrest School	Western Avenue, Crenshaw Boulevard, Palos Verdes Drive North	NB SB	2 2	0 0
PVPTA Green-Eastview [6]	Miraleste Intermediate to Eastview neighborhood circulator	Western Avenue, Palos Verdes Drive North, Toscanini, Caddington Drive	NB SB	0 2	0 0
PVPTA Orange Route [6]	Palos Verdes North/Peninsula to Palos Verdes High School	Western Avenue, Toscanini Drive	NB SB	0 0	0 0
Torrance Line 3 [7]	Redondo Beach Pier to Downtown Long Beach - (Del Amo Fashion Center, Harbor/UCLA, Wilmington)	Wilmington Boulevard, Pacific Coast Highway,	EB WB	5 5	5 5
Torrance Line 5 [7]	El Camino College (Torrance Airport, Charles H. Wilson Park, Torrance Station) circulator	Crenshaw Boulevard, Pacific Coast Highway, Narbonne Avenue	NB SB	2 2	1 2
Torrance Line 7 [7]	Redondo Beach Pier to Wilmington (Charles H. Wilson Park, Kaiser Medical Center, LA Harbor College)	Vermont Avenue, Sepulveda Boulevard, Pacific Coast Highway, Wilmington)	EB WB	3 3	3 3
Torrance Line 8 [7]	Skypark Business District to LAX Lot C (South Bay Galleria, Manhattan Beach North Redondo Beach)	Hawthorne Boulevard, Pacific Coast Highway	NB SB	3 4	3 4
Torrance Line 9 [7]	Del Amo Fashion Center to Historic Downtown Torrance - (Torrance Hospital, Lomita, Harbor City) circulator	Lomita Boulevard, Crenshaw Boulevard, Western Avenue, Normandie Avenue, Vermont Avenue	NB SB	2 2	2 2

[1] Source: Los Angeles County Metropolitan Transportation Authority (Metro) Website.

[2] Source: City of Redondo Beach Transit (Beach Cities) Website.

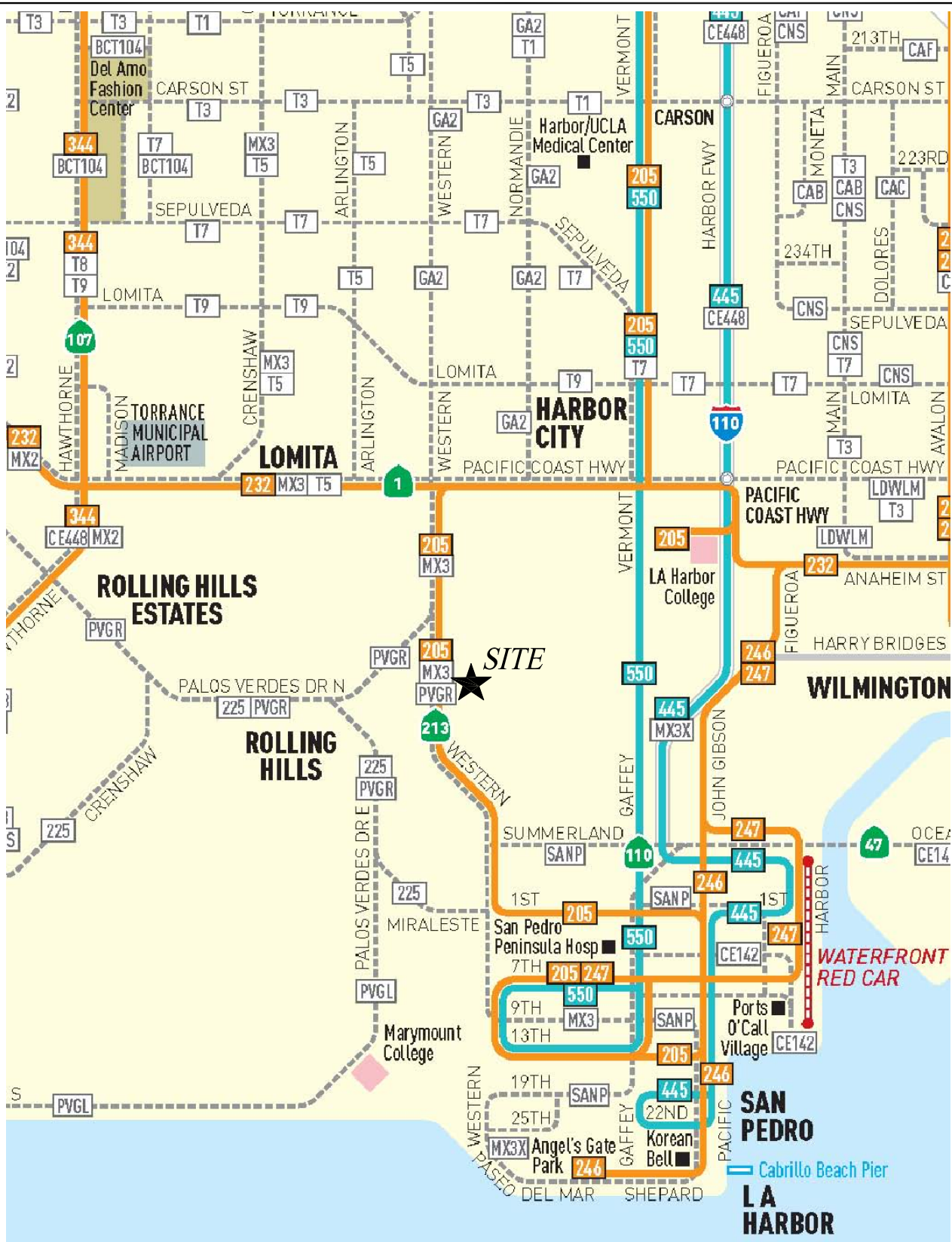
[3] Source: Los Angeles Department of Transportation (LADOT) Website.

[4] Source: City of Gardena (Gardena Municipal Bus Line) Website.

[5] Source: Municipal Area Express (MAX) Website.

[6] Source: Palos Verdes Peninsula Transit Authority (PVPTA) Website.

[7] Source: City of Torrance (Torrance Transit) Website.



MAP SOURCE: METROPOLITAN TRANSPORTATION AUTHORITY (METRO) WEBSITE



**FIGURE 4-2**  
**EXISTING PUBLIC TRANSIT ROUTES**

LINSCOTT, LAW & GREENSPAN, engineers

PONTE VISTA AT SAN PEDRO PROJECT

## 5.0 TRAFFIC COUNTS

Existing manual counts of vehicular turning movements were conducted in September and October 2010 at each of the 56 existing study intersections during the weekday morning (AM) and afternoon (PM) commuter periods to determine the peak hour traffic volumes. The traffic counts were conducted during weekdays when local schools were in session. The manual counts were conducted by several traffic count subconsultants (i.e., Accutek Traffic Data, City Traffic Counters, and The Traffic Solution) at the study intersections from 7:00 to 10:00 AM to determine the AM peak commuter hour, and from 3:00 to 6:00 PM to determine the PM peak commuter hour. Traffic volumes at the study intersections show the typical peak periods between 7:00 to 10:00 AM and 3:00 to 6:00 PM generally associated with peak commuter hours in the metropolitan Los Angeles area. In addition, Saturday mid-day peak period traffic counts were conducted at 17 study intersections along Western Avenue from 11:00 AM to 2:00 PM to determine weekend mid-day peak hour conditions, primarily associated with Saturday shopping traffic in the commercial sections of Western Avenue near the project site.

In addition to the manual intersection traffic counts conducted during the AM and PM commuter periods, supplemental spot counts were conducted at key intersections situated within close proximity to schools based on comments received during community outreach meetings. The comments received from community members indicated that traffic near schools during the school afternoon peak hour (i.e., approximately 2:00 to 3:00 PM) can be higher than during the typical PM peak commuter period (i.e., 3:00 to 6:00 PM). Accordingly, manual intersection traffic counts were conducted at 12 key intersections located near area schools for the 2:00 to 3:00 PM to supplement the 3:00 to 6:00 PM counts for purposes of determining the highest one hour period of traffic during the overall four hour count period.

### 5.1 Weekday and Saturday Peak Period Traffic Counts

The weekday AM and PM peak period manual counts of vehicle movements at the 56 existing study intersections are summarized in **Table 5-1**. The existing traffic volumes at the study intersections during the weekday AM and PM peak hours are shown in **Figures 5-1** and **5-2**, respectively. Summary data worksheets of the weekday manual traffic counts at the study intersections are contained in **Appendix A**.

The Saturday mid-day peak period manual counts of vehicle movements at the 17 study intersections included in the weekend analysis are summarized in **Table 5-2**. The existing traffic volumes at these study intersections during the Saturday mid-day peak hour are shown in **Figure 5-3**. Summary data worksheets of the Saturday manual traffic counts at the study intersections also are contained in **Appendix A**.



Table 5-1  
EXISTING TRAFFIC VOLUMES

NO.	INTERSECTION	DATE	DIR	AM PEAK HOUR		PM PEAK HOUR	
				BEGAN	VOLUME	BEGAN	VOLUME
1	Hawthorne Boulevard/ Sepulveda Boulevard [1]	09/28/2010	NB SB EB WB	8:15	2,479 1,906 1,460 1,385	5:00	2,520 2,899 1,294 1,789
2	Hawthorne Boulevard/ Pacific Coast Highway [1]	09/28/2010	NB SB EB WB	7:30	1,641 1,325 1,702 1,359	5:00	1,216 2,110 1,593 1,467
3	Hawthorne Boulevard/ Palos Verdes Drive [1]	09/28/2010	NB SB EB WB	7:45	1,251 958 931 736	5:00	940 1,427 628 739
4	Crenshaw Boulevard/ Sepulveda Boulevard [1]	09/29/2010	NB SB EB WB	7:45	1,677 1,239 1,428 2,243	5:00	2,037 1,859 1,684 1,836
5	Crenshaw Boulevard/ Lomita Boulevard [1]	09/29/2010	NB SB EB WB	7:45	1,202 1,636 737 1,704	3:15	1,959 1,852 1,609 1,224
6	Crenshaw Boulevard/ Pacific Coast Highway [1]	09/29/2010	NB SB EB WB	7:30	1,441 727 1,314 2,656	3:15	1,075 1,232 1,599 1,994
7	Crenshaw Boulevard/ Palos Verdes Drive [1]	09/30/2010	NB SB EB WB	7:30	1,367 948 944 955	5:00	1,015 1,146 871 958
8	Arlington Avenue/ Lomita Boulevard [1]	09/30/2010	NB SB EB WB	7:30	666 423 989 1,595	3:00	547 545 1,549 1,231
9	Narbonne Avenue/ Pacific Coast Highway [1]	09/30/2010	NB SB EB WB	7:30	761 415 1,685 2,350	5:00	474 618 2,063 2,093
10	Palos Verdes Drive East/ Palos Verdes Drive North [1]	10/07/2010	NB SB EB WB	7:30	730 302 1,324 1,214	5:00	415 520 1,326 1,239

[1] Counts conducted by Accutek Traffic Data, Inc.

[2] Counts conducted by City Traffic Counters

[3] Counts conducted by The Traffic Solution

Table 5-1 (Continued)  
EXISTING TRAFFIC VOLUMES

NO.	INTERSECTION	DATE	DIR	AM PEAK HOUR		PM PEAK HOUR	
				BEGAN	VOLUME	BEGAN	VOLUME
11	Western Avenue/ Sepulveda Boulevard [1]	10/07/2010	NB SB EB WB	7:15	1,477 1,188 1,339 2,058	5:00	1,184 1,388 1,766 1,779
12	Western Avenue/ Lomita Boulevard [1]	10/07/2010	NB SB EB WB	7:30	1,359 1,150 1,237 1,186	5:00	908 1,263 1,767 1,142
13	Western Avenue/ Pacific Coast Highway [1]	10/12/2010	NB SB EB WB	7:30	1,388 891 1,928 1,895	5:00	1,142 1,031 1,903 1,659
14	Western Avenue/ Anaheim Street [1]	10/12/2010	NB SB EB WB	7:30	1,060 972 4 638	5:00	777 1,337 1 474
15	Western Avenue/ Palos Verdes Drive North [2]	09/28/2010	NB SB EB WB	7:15	1,945 776 1,465 984	5:00	1,247 995 1,410 1,179
16	Western Avenue/ Peninsula Verde Drive [2]	09/28/2010	NB SB EB WB	7:15	1,918 1,153 23 0	5:00	1,212 1,642 15 0
17	Western Avenue/ Green Hills Drive [2]	09/28/2010	NB SB EB WB	7:15	2,043 1,126 1 0	5:00	1,185 1,640 30 0
18	Western Avenue/ Avenida Aprenda [2]	09/28/2010	NB SB EB WB	7:30	1,758 950 455 0	5:00	1,181 1,640 101 0
19	Western Avenue/ Fitness Drive [2]	09/28/2010	NB SB EB WB	7:45	1,710 964 0 112	5:00	1,180 1,637 0 37
20	Western Avenue/ Westmont Drive [2]	09/28/2010	NB SB EB WB	7:30	1,600 936 315 593	5:00	1,215 1,547 134 539

[1] Counts conducted by Accutek Traffic Data, Inc.

[3] Counts conducted by The Traffic Solution

[2] Counts conducted by City Traffic Counters

Table 5-1 (Continued)  
EXISTING TRAFFIC VOLUMES

NO.	INTERSECTION	DATE	DIR	AM PEAK HOUR		PM PEAK HOUR	
				BEGAN	VOLUME	BEGAN	VOLUME
21	Western Avenue/ Toscanini Drive [2]	09/28/2010	NB SB EB WB	7:30	1,672 1,009 348 163	5:00	1,335 1,558 98 77
22	Western Avenue/ Caddington Drive [2]	09/28/2010	NB SB EB WB	7:30	1,724 1,296 160 37	5:00	1,245 1,581 270 45
23	Western Avenue/ Capitol Drive [2]	09/28/2010 03/22/2011	NB SB EB WB	7:30	1,504 1,250 299 460	2:00	1,299 1,648 210 450
24	Western Avenue/ Park Western Drive [2]	09/29/2010	NB SB EB WB	7:15	1,717 1,154 11 232	5:00	1,561 1,528 29 347
25	Western Avenue/ Crestwood Street [2]	09/29/2010	NB SB EB WB	7:30	1,731 1,233 332 104	4:30	1,465 1,572 200 318
26	Western Avenue/ Summerland Avenue [2]	09/29/2010	NB SB EB WB	7:30	1,327 1,267 115 653	5:00	1,202 1,683 65 565
27	Western Avenue/ 1st Street [2]	09/29/2010	NB SB EB WB	7:30	1,524 1,166 322 522	4:45	1,291 1,627 264 645
28	Western Avenue/ Weymouth Avenue [2]	09/29/2010	NB SB EB WB	7:30	975 1,272 134 505	5:00	907 1,640 66 411
29	Western Avenue/ 9th Street [2]	09/29/2010	NB SB EB WB	7:30	1,118 767 207 339	4:45	974 1,149 351 309
30	Western Avenue/ 25th Street [2]	09/29/2010	NB SB EB WB	7:30	202 737 761 527	4:45	246 849 776 456

[1] Counts conducted by Accutek Traffic Data, Inc.

[3] Counts conducted by The Traffic Solution

[2] Counts conducted by City Traffic Counters

Table 5-1 (Continued)  
EXISTING TRAFFIC VOLUMES

NO.	INTERSECTION	DATE	DIR	AM PEAK HOUR		PM PEAK HOUR	
				BEGAN	VOLUME	BEGAN	VOLUME
31	Weymouth Avenue/ 9th Street [2]	09/29/2010 03/22/2011	NB	7:30	418	2:45	272
			SB		263		294
			EB		355		306
			WB		430		378
32	Normandie Avenue/ Sepulveda Boulevard [1]	10/12/2010	NB	7:30	800	4:30	613
			SB		645		816
			EB		1,451		1,739
			WB		2,018		1,663
33	Normandie Avenue/ Lomita Boulevard [1]	10/13/2010 03/22/2011	NB	7:30	772	2:00	670
			SB		770		892
			EB		1,517		1,626
			WB		1,370		1,137
34	Normandie Avenue/ Pacific Coast Highway [1]	10/13/2010	NB	7:30	536	4:45	717
			SB		625		618
			EB		1,856		1,663
			WB		1,838		1,702
35	Vermont Avenue/ Normandie Avenue [1]	10/13/2010	NB	7:30	1,077	4:45	646
			SB		495		436
			EB		284		0
			WB		0		0
36	Vermont Ave-Palos Verdes N- Gaffey Street/ Anaheim Street [1]	10/14/2010	NB	7:15	816	4:45	552
			SB		715		937
			EB		447		538
			WB		1,003		1,027
			NEB		1,519		1,036
37	Gaffey Street/ Westmont Drive [3]	10/12/2010	NB	7:30	1,134	4:30	1,114
			SB		688		935
			EB		711		378
			WB		39		280
38	Gaffey Street/ Capitol Drive [3]	10/12/2010	NB	7:30	1,216	4:45	1,319
			SB		874		1,145
			EB		533		334
			WB		0		0
39	Gaffey Street/ Channel Street [3]	10/12/2010	NB	7:15	1,309	4:30	1,270
			SB		1,207		1,240
			EB		601		510
			WB		597		614
40	Gaffey Street/ Miraflores Ave-I110 SB Ramps [3]	10/12/2010	NB	7:15	1,172	4:45	1,040
			SB		1,027		1,036
			EB		78		61
			WB		438		391

[1] Counts conducted by Accutek Traffic Data, Inc.

[2] Counts conducted by City Traffic Counters

[3] Counts conducted by The Traffic Solution

Table 5-1 (Continued)  
EXISTING TRAFFIC VOLUMES

NO.	INTERSECTION	DATE	DIR	AM PEAK HOUR		PM PEAK HOUR	
				BEGAN	VOLUME	BEGAN	VOLUME
41	Gaffey Street/ Summerland Avenue [3]	10/12/2010	NB SB EB WB	7:15	562 524 513 838	4:45	735 728 248 1,109
42	Gaffey Street/ I-110 NB and SB Ramps- SR-47 EB On-Ramp [3]	10/12/2010	NB SB EB WB	7:15	2,877 812 0 1,357	4:45	2,483 1,170 0 1,894
43	Gaffey Street/ 9th Street [3]	09/29/2010	NB SB EB WB	7:15	1,097 821 628 361	3:30	1,013 1,039 470 326
44	Vermont Avenue/ Sepulveda Boulevard [3]	10/13/2010	NB SB EB WB	7:15	1,051 786 1,473 2,442	4:45	1,097 942 1,835 2,105
45	Vermont Avenue/ Lomita Boulevard [3]	10/13/2010	NB SB EB WB	7:30	595 876 1,187 1,326	4:45	709 930 1,435 924
46	Vermont Avenue/ Pacific Coast Highway [3]	10/13/2010	NB SB EB WB	7:30	560 653 1,701 2,079	4:45	693 530 1,544 1,809
47	I-110 Southbound Ramps Pacific Coast Highway [3]	10/26/2010	NB SB EB WB	7:30	0 2,002 1,686 1,369	5:00	0 2,248 1,753 1,056
48	Figueroa Place/ I-110 Southbound Off-Ramp [3]	10/14/2010	NB SB EB WB	7:45	198 114 31 874	5:00	84 154 20 1,170
49	Figueroa Place/ Anaheim Street [3]	10/14/2010	NB SB EB WB	7:45	52 670 1,258 930	4:45	36 1,188 1,150 794
50	Figueroa Street/ Sepulveda Boulevard [3]	10/13/2010	NB SB EB WB	7:15	573 545 1,155 1,263	5:00	507 456 1,529 1,100

[1] Counts conducted by Accutek Traffic Data, Inc.

[2] Counts conducted by City Traffic Counters

[3] Counts conducted by The Traffic Solution

Table 5-1 (Continued)  
EXISTING TRAFFIC VOLUMES

NO.	INTERSECTION	DATE	DIR	AM PEAK HOUR		PM PEAK HOUR	
				BEGAN	VOLUME	BEGAN	VOLUME
51	Figueroa Street/ I-110 Northbound On-Ramp [3] (north of PCH)	10/26/2010	NB	7:30	1,893	5:00	1,929
			SB		348		363
			EB		0		0
			WB		7		11
52	Figueroa Street/ Pacific Coast Highway [3]	10/26/2010	NB	7:45	867	5:00	935
			SB		214		317
			EB		1,933		2,484
			WB		1,585		1,227
53	Figueroa Street/ I-110 NB on-ramp [3] (north of Anaheim Street)	10/14/2010	NB	7:45	1,227	5:00	1,118
			SB		217		165
			EB		0		0
			WB		187		97
54	Figueroa Street/ Anaheim Street [3]	10/14/2010	NB	7:15	668	4:45	685
			SB		243		175
			EB		1,342		1,410
			WB		785		859
55	Wilmington Boulevard/ Pacific Coast Highway [3]	10/26/2010	NB	7:15	940	5:00	560
			SB		409		528
			EB		1,114		1,674
			WB		1,408		1,208
56	Wilmington Boulevard/ Anaheim Street [3]	10/14/2010	NB	7:15	381	4:30	254
			SB		357		420
			EB		771		1,042
			WB		718		849

[1] Counts conducted by Accutek Traffic Data, Inc.

[3] Counts conducted by The Traffic Solution

[2] Counts conducted by City Traffic Counters





NOT TO SCALE  
LINSOTT, LAW & GREENSPAN, engineers

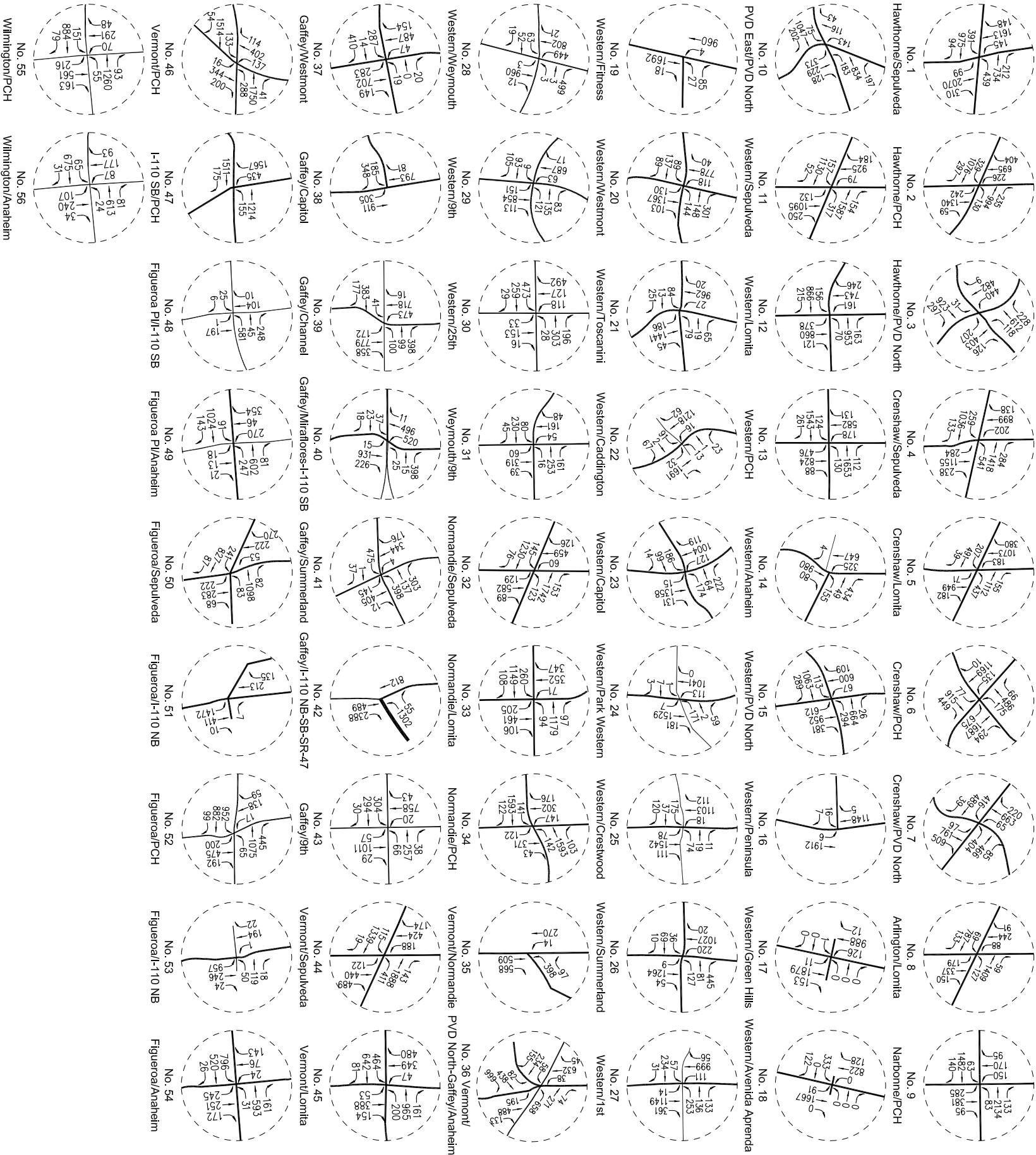
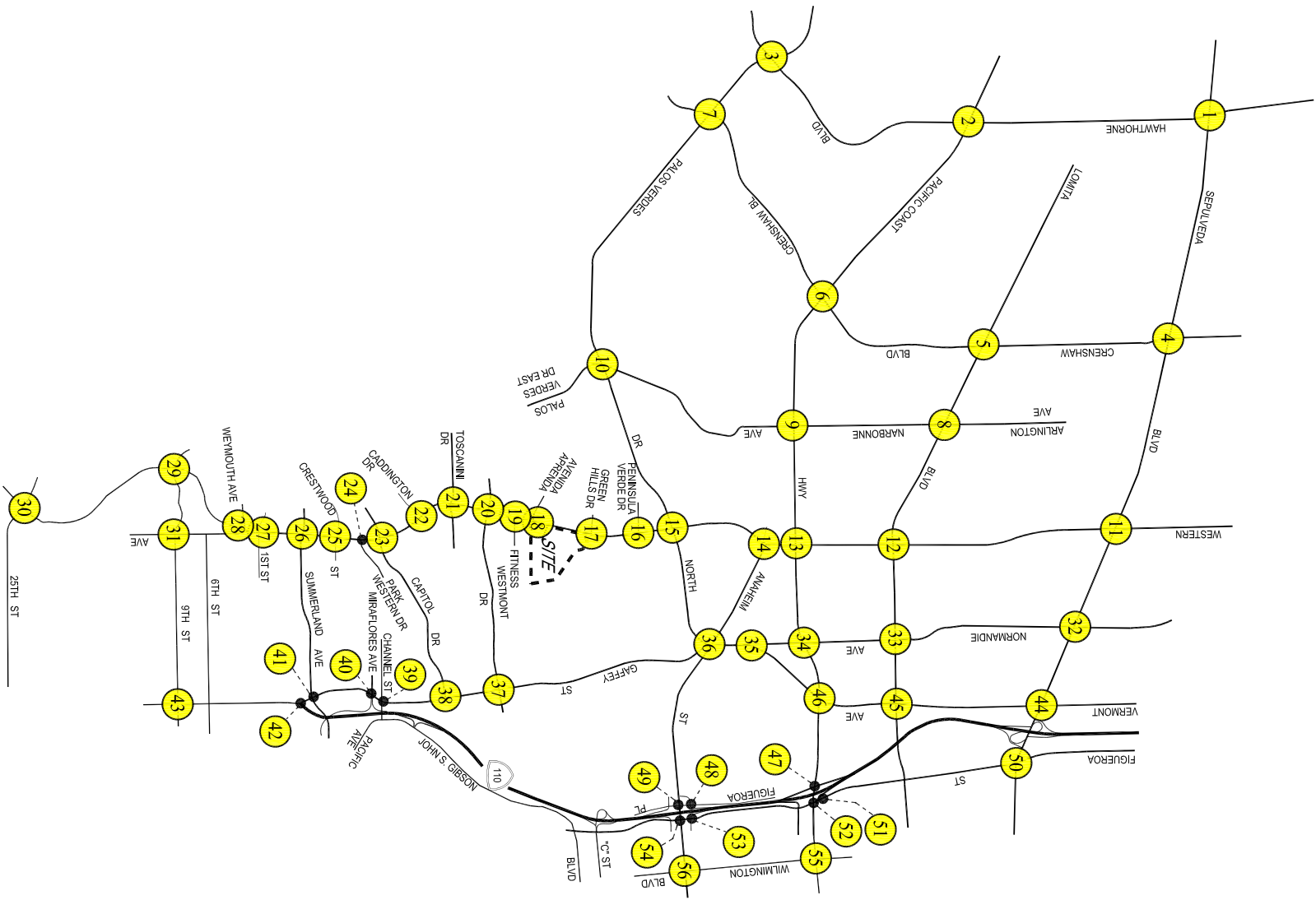


FIGURE 5-1

EXISTING TRAFFIC VOLUMES  
WEEKDAY AM PEAK HOUR  
PONTE VISTA AT SAN PEDRO PROJECT

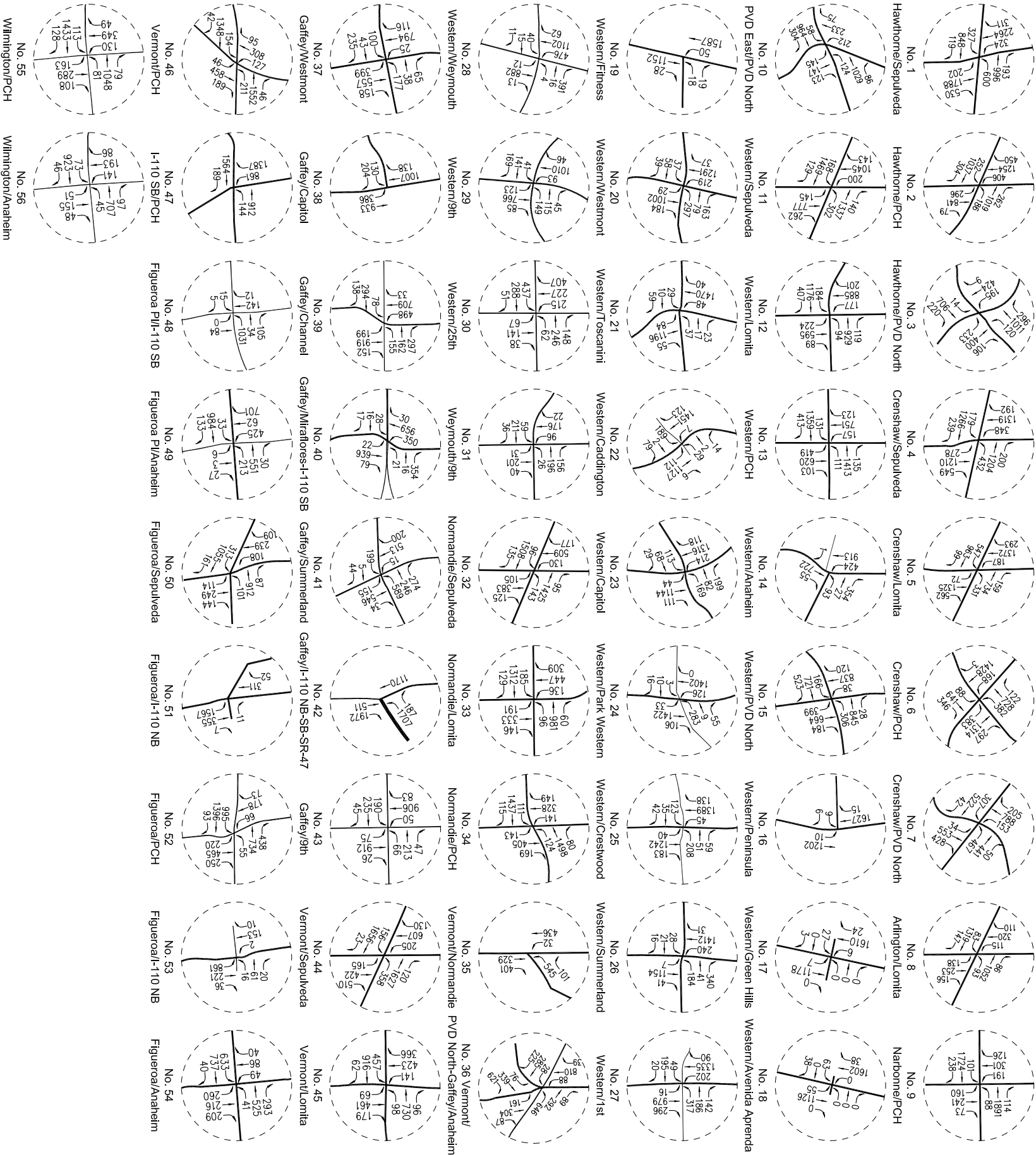
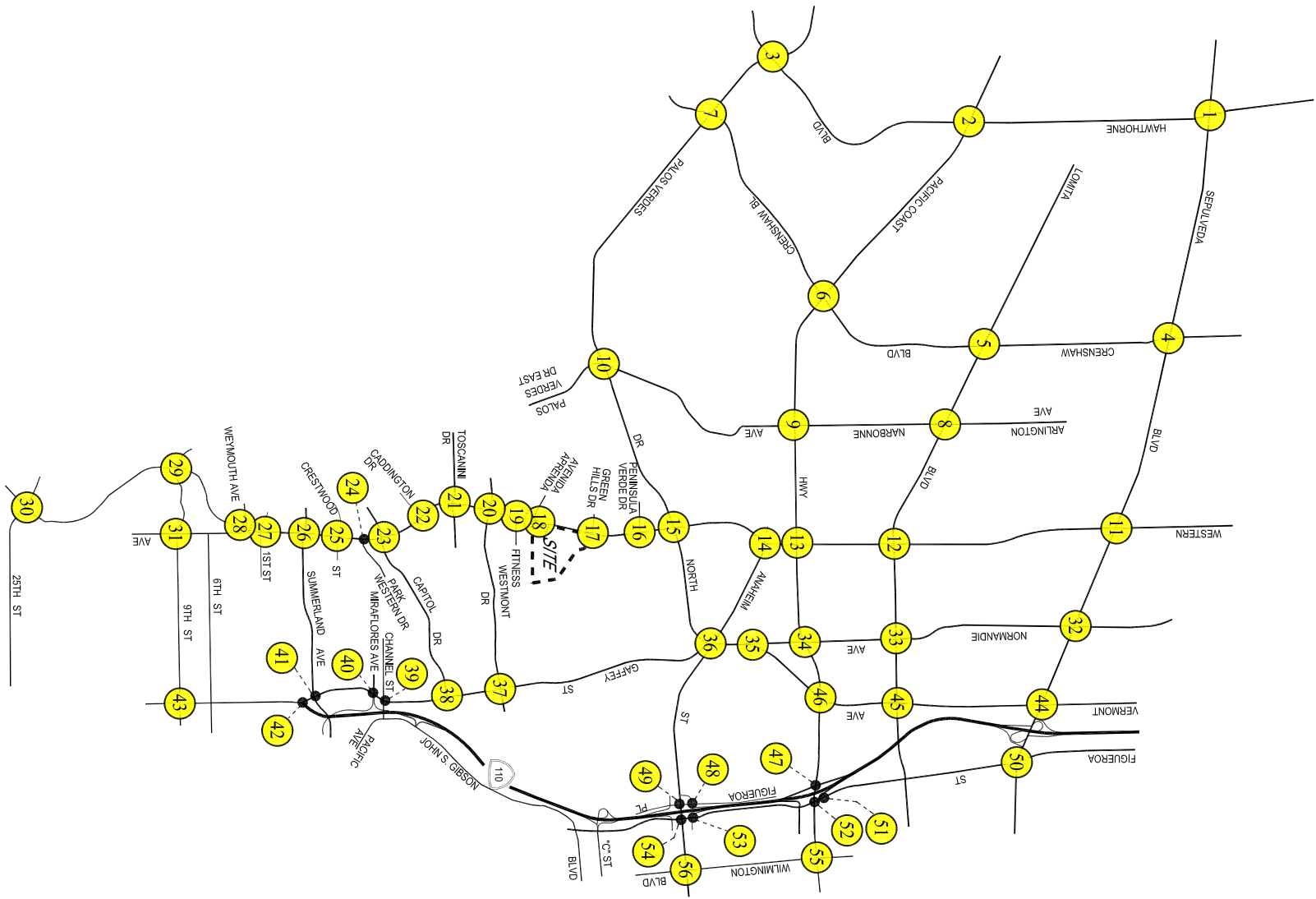


FIGURE 5-2

NOT TO SCALE  
LINSOTT, LAW & GREENSPAN, engineers

EXISTING TRAFFIC VOLUMES  
WEEKDAY PM PEAK HOUR  
PONTE VISTA AT SAN PEDRO PROJECT

Table 5-2  
EXISTING SATURDAY TRAFFIC VOLUMES [1]

NO.	INTERSECTION	DATE	DIR	SATURDAY PEAK HOUR	
				BEGAN	VOLUME
11	Western Avenue/ Sepulveda Boulevard	09/25/2010	NB SB EB WB	12:30	1,099 762 1,492 1,570
12	Western Avenue/ Lomita Boulevard	09/25/2010	NB SB EB WB	12:00	814 929 1,030 862
13	Western Avenue/ Pacific Coast Highway	09/25/2010	NB SB EB WB	12:00	1,192 848 1,892 1,586
14	Western Avenue/ Anaheim Street	09/25/2010	NB SB EB WB	12:15	900 974 0 419
15	Western Avenue/ Palos Verdes Drive North	09/25/2010	NB SB EB WB	11:15	1,425 750 1,172 762
16	Western Avenue/ Peninsula Verde Drive	11/13/2010	NB SB EB WB	12:00	1,430 1,315 18 0
17	Western Avenue/ Green Hills Drive	09/25/2010	NB SB EB WB	12:15	1,324 1,288 123 0
18	Western Avenue/ Avenida Aprenda	09/25/2010	NB SB EB WB	11:15	1,381 1,166 130 0
19	Western Avenue/ Fitness Drive	11/13/2010	NB SB EB WB	11:45	1,419 1,211 0 47
20	Western Avenue/ Westmont Drive	09/25/2010	NB SB EB WB	11:45	1,447 1,174 105 522

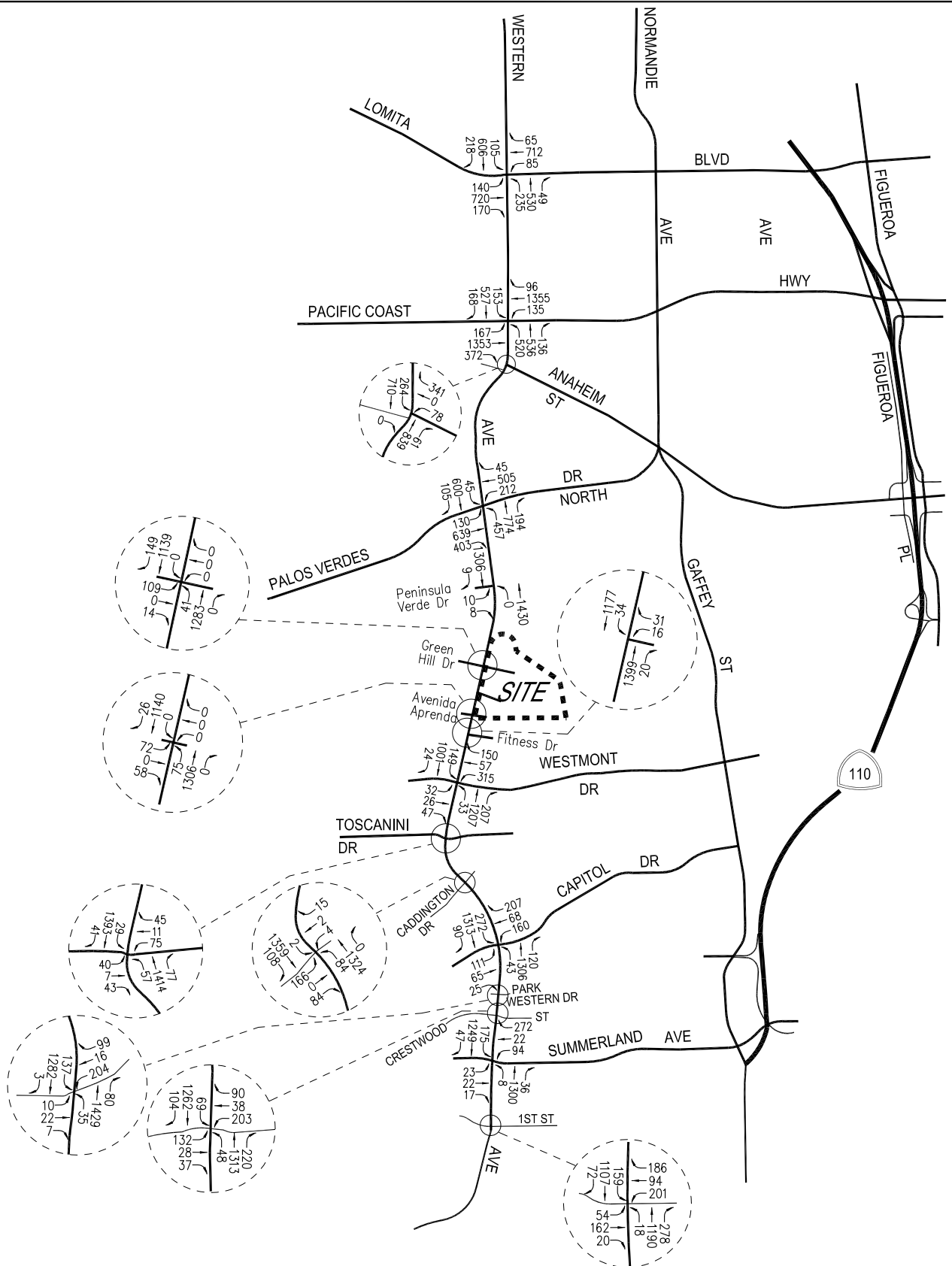
[1] Counts conducted by City Traffic Counters.

Table 5-2 (Continued)  
EXISTING SATURDAY TRAFFIC VOLUMES [1]

NO.	INTERSECTION	DATE	DIR	SATURDAY PEAK HOUR	
				BEGAN	VOLUME
21	Western Avenue/ Toscanini Drive	10/02/2010	NB	12:30	1,548
			SB		1,463
			EB		90
			WB		131
22	Western Avenue/ Caddington Drive	10/02/2010	NB	12:00	1,408
			SB		1,469
			EB		250
			WB		21
23	Western Avenue/ Capitol Drive	10/02/2010	NB	12:00	1,469
			SB		1,675
			EB		201
			WB		435
24	Western Avenue/ Park Western Drive	10/02/2010	NB	12:00	1,544
			SB		1,422
			EB		39
			WB		319
25	Western Avenue/ Crestwood Street	10/02/2010	NB	12:00	1,581
			SB		1,435
			EB		197
			WB		331
26	Western Avenue/ Summerland Avenue	10/02/2010	NB	12:00	1,344
			SB		1,471
			EB		62
			WB		388
27	Western Avenue/ W. 1st Street	10/02/2010	NB	11:30	1,486
			SB		1,338
			EB		236
			WB		481

[1] Counts conducted by City Traffic Counters.

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NOT TO SCALE

LINSCOTT, LAW & GREENSPAN, engineers

**FIGURE 5-3**  
**EXISTING TRAFFIC VOLUMES**  
**SATURDAY MID-DAY PEAK HOUR**  
**PONTE VISTA AT SAN PEDRO PROJECT**

## 5.2 Funeral Processions

In conjunction with the formal scoping process of the Draft Environmental Impact Report to be prepared for the Ponte Vista at San Pedro project, several comments noted that funeral processions associated with the Green Hills Memorial Park located on the west side of Western Avenue across from the Ponte Vista site caused significant traffic congestion that should be considered in the traffic study. It is noted that these processions (generally related to a service that occurs off-site) can cause momentary disruptions of traffic on Western Avenue. However, it has been observed that these processions are generally scheduled on weekdays during mid-day periods (i.e., after the morning commuter peak period and before the afternoon commuter peak period) and occur infrequently. Further, the disruption of traffic occurs momentarily (a matter of minutes) with regular traffic patterns recovering shortly thereafter. While it is recognized that the funeral processions have been a long fixture in the community, it does not appear that the Ponte Vista project would significantly contribute to the worsening of traffic conditions during these events. Instead, it is appropriate to analyze the traffic effects of the Ponte Vista project during the recurring peak commuter hours, which happen on a regular basis and are substantially longer in duration as compared to a funeral procession. Therefore, no additional or unique traffic analysis is required associated with the Green Hills funeral processions.

## 6.0 CUMULATIVE DEVELOPMENT PROJECTS

A forecast of on-street traffic conditions prior to occupancy of the project was prepared by incorporating the potential trips associated with other known development projects (related projects) in the area. With this information, the potential impact of the proposed project can be evaluated within the context of the cumulative impact of all ongoing development. The related projects research was based on information on file at the City of Los Angeles Departments of Planning and Transportation, City Rancho Palos Verdes, City of Rolling Hills Estates, City of Carson, City of Long Beach, City of Torrance, City of Lomita, and the County of Los Angeles. The list of related projects in the project study area is presented in **Table 6-1**. The location of the related projects is shown in **Figure 6-1**. The list was compiled and then re-verified in October 2010, coinciding with the issuance of the Notice of Preparation for the Draft Environmental Impact Report to be prepared for the project. Many related projects have proposed or approved mitigation measures. However, consistent with LADOT policy, the beneficial effects of such measures were not assumed in this traffic analysis, except as noted herein.

Traffic volumes expected to be generated by the related projects were calculated using rates provided in the Institute of Transportation Engineers' (ITE) *Trip Generation* manual<sup>4</sup>. The related projects' respective weekday traffic generation for the AM and PM peak hours, as well as on a daily basis for a typical weekday, also is summarized in **Table 6-1**. The anticipated distribution of the related projects traffic volumes to the study intersections during the weekday AM and PM peak hours is displayed in **Figures 6-2** and **6-3**, respectively. The related projects' respective Saturday traffic generation for the mid-day peak hour, as well as on a daily basis, is summarized in **Table 6-1**. The forecast assignment of the related projects traffic volumes to the study intersections during the Saturday mid-day peak hour is displayed in **Figure 6-4**.

### 6.1 San Pedro Waterfront Project

The Port of Los Angeles previously announced the project referred to as the proposed San Pedro Waterfront Project (or the "Bridge to Breakwater" project). This project is a master plan for port facilities and improvements (e.g. port and public recreational improvements), as well as private uses (e.g. retail, office, commercial, warehouse) that would be developed on approximately 400 acres from the Vincent Thomas Bridge to the federal breakwater within the property of the City of Los Angeles Harbor Department, including replacing uses that are currently located there. The public facilities would be implemented by the Port of Los Angeles. The private facilities envisioned by the master plan would be developed by private developers. An EIR has been prepared to evaluate the potential environmental effects of this master plan with the project build-out at 2015. The related projects analysis incorporates the project build-out of the San Pedro Waterfront Project in the traffic analysis as a related project. A traffic study has been prepared for the San Pedro Waterfront project. Accordingly, this traffic study includes the project trips documented in the San Pedro Waterfront traffic study. It should be noted that San Pedro Waterfront Project is the single largest trip generator of related projects in the San Pedro area identified in this traffic study.

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<sup>4</sup> Institute of Transportation Engineers *Trip Generation* manual, 8<sup>th</sup> Edition, Washington, D.C., 2008.



Table 6-1  
LIST OF RELATED PROJECTS AND RELATED PROJECTS TRIP GENERATION FORECAST [1]

NO.	PROJECT STATUS	PROJECT NAME ADDRESS/LOCATION	LAND USE DATA		PROJECT DATA SOURCE	WEEKDAY						SATURDAY				
			LAND-USE	SIZE		DAILY TRIP ENDS [2]	AM PEAK HOUR VOLUMES [2]			PM PEAK HOUR VOLUMES [2]			DAILY TRIP ENDS VOLUMES [2]	MID-DAY PEAK HOUR VOLUMES [2]		
							IN	OUT	TOTAL	IN	OUT	TOTAL		IN	OUT	TOTAL
City of Los Angeles																
LA1	Proposed	West Channel/Cabrillo Miner Street and 22nd Street	Land Development	47 Acres	[3]	3,867	73	58	131	138	124	262	5,194	310	275	585
LA2	Proposed	2006-CEN-3299 Palos Verdes Street Housing 550 and 560 S. Palos Verdes Street	Townhouse Apartment Retail Less 50% Pass-By Restaurant Less 20% Pass-By	85 DU 245 DU 8,880 GLSF 3,000 GSF	[4] [5] [6] [7] [8] [7]	494 1,629 381 (191) 381 (76)	6 25 5 (3) 18 (4)	31 100 4 (2) 17 (3)	37 125 9 (5) 35 (7)	29 99 16 (8) 19 (4)	15 53 17 (9) 14 (3)	44 152 33 (17) 33 (7)	482 1,566 444 (222) 475 (95)	22 64 22 (11) 22 (4)	18 63 21 (11) 20 (4)	40 127 43 (22) 42 (8)
LA3	Proposed	San Pedro Waterfront (Bridge to Breakwater) of the Port of Los Angeles 425 S. Palos Verdes Street Berths 45-95	Cruise Ship Terminal Retail Restaurant Conference Center Warehouse R&D Site Public Open Space	2 Terminals 175,000 GSF 125,000 GSF 75,000 GSF 70,000 GSF 13 Acres 18 Acres	[9]	18,350	646	462	1,108	562	751	1,313	17,861	1,047	870	1,917
LA4	Proposed	Ocean View 111 and 203-233 N. Harbor Boulevard	Apartment Retail Less 50% Pass-By	158 DU 8,000 GLSF	[5] [6] [7]	1,051 344 (172)	16 5 (3)	65 3 (2)	81 8 (4)	64 15 (8)	34 15 (8)	98 30 (15)	1,010 400 (200)	41 20 (10)	41 19 (10)	82 39 (20)
LA5	Proposed	281 W. 8th Street	Townhouse Retail Less 50% Pass-By	72 DU 7,000 GLSF	[4] [6] [7]	418 301 (151)	5 4 (2)	27 3 (2)	32 7 (4)	25 13 (7)	12 13 (7)	37 26 (13)	408 350 (175)	18 16 (9)	16 16 (8)	34 34 (17)
LA6	Proposed	420-430 W. 9th Street	Condominium	25 DU	[4]	145	2	9	11	9	4	13	142	6	6	12
LA7	Proposed	Sepia Homes 812 S. Pacific Avenue	Condominium	90 DU	[4]	523	7	33	40	31	16	47	510	23	19	42
LA8	Built & Occupied [NT]	Port Police Station & Charter School 330 S. Centre Street	Office Police Headquarters Charter School	12,500 SF 155 Employees 580 Students	[10]	3,583	323	189	512	80	120	200	1,100	55	55	110
LA9	Built	ENV-2005-5459-MIND, TT-63729 26404 S. Vermont Avenue	Condominium	44 DU	[4]	256	3	16	19	15	8	23	249	11	10	21
LA10	Proposed	TT-61196 315 N. Marine Avenue	Apartment	35 DU	[5]	233	4	14	18	14	8	22	224	9	9	18
LA11	Proposed	China Shipping Container Terminal China Shipping Line - Phases II and III Berths 97-108	Marine Terminal	70 Acres	[11]	3,540	184	68	252	149	205	354	3,540	149	205	354
LA12	Proposed	TRAPAC Container Terminal TRAPAC Container Expansion Berths 136-147	Marine Terminal	57 Acres	[12]	2,100	128	79	207	86	124	210	2,100	86	124	210
LA13	Proposed [NT]	ENV-2007-1514-EA 327 & 407 N. Harbor Boulevard	Condominium	94 DU	[4]	546	7	34	41	33	16	49	533	24	20	44

Table 6-1 (Continued)  
LIST OF RELATED PROJECTS AND RELATED PROJECTS TRIP GENERATION FORECAST [1]

NO.	PROJECT STATUS	PROJECT NAME ADDRESS/LOCATION	LAND USE DATA		PROJECT DATA SOURCE	WEEKDAY										SATURDAY		
			LAND-USE	SIZE		DAILY TRIP ENDS [2]	AM PEAK HOUR VOLUMES [2]			PM PEAK HOUR VOLUMES [2]			DAILY TRIP ENDS [2]	MID-DAY PEAK HOUR VOLUMES [2]				
							IN	OUT	TOTAL	IN	OUT	TOTAL		IN	OUT	TOTAL		
City of Los Angeles (continued)																		
LA14	Proposed	Habitat for Humanity L Street and Lecouvreur Street	Single-Family Residential	8 DU	[13]	77	2	4	6	5	3	8	81	4	3	7		
LA15	Proposed	534 Eubank Avenue	Retail Less 50% Pass-By	20,000 GSF	[6] [7]	859 (430)	12 (6)	8 (4)	20 (10)	37 (19)	38 (19)	75 (38)	999 (500)	51 (26)	47 (24)	98 (49)		
LA16	Proposed	Truck Parking and Dispatch Facility 525 E. E Street	Office Warehouse	1,440 GSF 1,926 GSF	[14] [15]	16 7	2 1	0 0	2 1	0 0	2 1	2 1	3 2	1 Nom.	0 Nom.	1 Nom.		
LA17	Proposed	Potential Industries 701 E. E Street	Industrial	40,000 GSF	[16]	278	33	4	37	5	34	39	52	3	3	6		
LA18	Proposed	Electronic Balancing Expansion 600 E. D Street	Industrial	24,000 GSF	[16]	168	19	3	22	3	20	23	32	1	2	3		
LA19	Under Construction [NT]	ENV-2006-4723-EA Kaiser Permanente South Bay Master Plan 25825 Vermont Avenue (along PCH frontage)	Medical Office Building Warehouse Hospital	303,000 GSF 42,500 GSF 260 Beds	[17]	2,481	139	37	176	69	187	256	2,481	69	187	256		
LA20	Proposed	ENV-2008-32-EAF 1616 W. 208th Street	Condominium	5 DU	[4]	29	0	2	2	2	1	3	28	1	1	2		
LA21	Proposed	ENV-2006-9652-MN 931 Frigate Avenue	Private Elementary School	128 Students	[18]	317	63	41	104	9	13	22	Nom.	Nom.	Nom.	Nom.		
LA22	Proposed	Yang Ming Container Terminal Berths 121-131	Marine Terminal	N/A	[10]	5,080	252	111	363	206	302	508	5,080	206	302	508		
LA23	Proposed	AA-2007-2601-PM1A-SL 1616 W. 205th Street	Condominium	4 DU	[4]	23	0	2	2	1	1	2	23	1	1	2		
LA24	Proposed	Wilmington Waterfront Development 100 East Harry Bridges Boulevard	Restaurant Light Industrial Retail Open Space	12,000 GSF 150,000 GSF 58,000 GSF 15.5 Acres	[19] [8] [16] [6] [20]	5,140	232	107	339	206	296	502	1,900 198 2,898 188	90 10 150 21	79 11 138 14	169 21 288 35		
LA25	Built & Occupied [NT]	Community Plan 97-0050-CPU 401 Hawaiian Avenue	Condominium Apartment Single-Family Residential Senior Housing	115 DU 120 DU 76 DU 100 Occ. DU	[4] [5] [13] [21]	668 798 727 348	9 12 14 5	42 49 43 8	51 61 57 13	40 48 49 10	20 26 28 6	60 74 77 16	652 767 766 251	29 31 38 15	25 31 33 15	54 62 71 30		
LA26	Built & Occupied	AA-2008-2427-COC 576 W. 10th Street	Condominium	4 DU	[4]	23	0	2	2	1	1	2	23	1	1	2		
LA27	Proposed	DIR-2008-4235-CLQ 529 N. Broad Avenue	Office	6,500 GSF	[14]	72	9	1	10	2	8	10	15	2	1	3		
LA28	Proposed	ZA-2008-4396-ZAA 1325 S. Beacon Street	Condominium	3 DU	[4]	17	0	1	1	1	1	2	17	1	0	1		
LA29	Proposed	ENV-2007-3326-EAF 2345 S. Gaffney Street	Apartment	7 DU	[5]	47	1	3	4	3	1	4	45	2	2	4		

Table 6-1 (Continued)  
LIST OF RELATED PROJECTS AND RELATED PROJECTS TRIP GENERATION FORECAST [1]

NO.	PROJECT STATUS	PROJECT NAME ADDRESS/LOCATION	LAND USE DATA		PROJECT DATA SOURCE	WEEKDAY						SATURDAY				
			LAND-USE	SIZE		DAILY TRIP ENDS [2]	AM PEAK HOUR VOLUMES [2]			PM PEAK HOUR VOLUMES [2]			DAILY TRIP ENDS VOLUMES [2]	MID-DAY PEAK HOUR VOLUMES [2]		
							IN	OUT	TOTAL	IN	OUT	TOTAL		IN	OUT	TOTAL
City of Los Angeles (continued)																
LA30	Built & Occupied [NT]	ZA-2007-2966-ZV Toberman Village 201 N. Pabos Verdes Street	Apartment	49 DU	[5]	326	5	20	25	20	10	30	313	13	12	25
LA31	Proposed	AA-2007-1359-PMIA-CN 1553 W. 205th Street	Condominium	4 DU	[4]	23	0	2	2	1	1	2	23	1	1	2
LA32	Proposed	ENV-2007-1546-EAF 1609 W. 224th Street	Condominium	8 DU	[4]	46	1	3	4	3	1	4	45	2	2	4
LA33	Proposed	ENV-2007-1167-CE 1658 W. 228th Street	Condominium	4 DU	[4]	23	0	2	2	1	1	2	23	1	1	2
LA34	Proposed	ENV-2007-804-EAF 25941 S. Belle Porte Avenue	Condominium	30 DU	[4]	174	2	11	13	11	5	16	170	8	6	14
LA35	Proposed	TT-68723-CN 255 W. 8th Street	Condominium Apartment	43 DU 4 DU	[4] [5]	250 27	3 0	16 2	19 2	15 1	7 1	22 2	244 26	11 1	9 1	20 2
LA36	Proposed	ENV-2008-4836-EAF 901 E. Street	Warehouse	43,000 GSF	[15]	153	10	3	13	4	10	14	53	4	2	6
LA37	Proposed	ENV-2007-3097-MND 1620 W. 237th Street	Condominium	10 DU	[4]	58	1	3	4	3	2	5	57	3	2	5
LA38	Proposed	AA-2008-4022-PMLA 945 Broad Avenue	Apartment	3 DU	[5]	20	0	2	2	1	1	2	19	1	1	2
LA39	Built & Occupied	ENV-2008-1046-EAF 1831 S. Pacific Avenue	Convenience Market Less 50% Pass-By	2,700 GSF	[22] [7]	1,993 (997)	91 (46)	90 (45)	181 (91)	72 (36)	70 (35)	142 (71)	2,330 (1,165)	104 (52)	104 (52)	208 (104)
LA40	Proposed	ENV-2008-95-EAF 1616 W. 260th Street	Apartment	8 DU	[5]	53	1	3	4	3	2	5	51	2	2	4
LA41	Proposed	CPC-2006-10244-ZC 1450 W. Pacific Coast Highway	Condominium	57 DU	[4]	331	4	21	25	20	10	30	323	15	12	27
LA42	Proposed	CPC-2009-542-GPA-ZA-HD-SPR-ZAA 1311 W. Sepulveda Boulevard	Apartment Retail Less 10% Internal Capture Less 50% Pass-by Remove Warehouse Remove Office	520 DU 17,904 GLSF (300) Employees (10,000) GSF	[23]	3,494 769 (346) (1,167) (110)	53 11 (1) (5) (110) (14)	212 7 (1) (3) (43) (2)	265 18 (2) (8) (153) (16)	209 32 (3) (15) (62) (3)	113 35 (4) (16) (115) (12)	322 67 (7) (31) (177) (15)	2,058 895 (89) (403) (177) (24)	135 46 (5) (21) (19) (2)	135 43 (4) (20) (11) (2)	270 89 (9) (41) (30) (4)
LA43	Proposed	AA-2007-1166-PMIA-CN 1658 W. 209th Street	Condominium	4 DU	[4]	23	0	2	2	1	1	2	23	1	1	2
LA44	Under Construction [NT]	Harry Bridges Span School 1235 Broad Avenue	Elementary School (K-8)	1,278 Students	[24]	1,649	316	259	575	94	98	192	Nom.	Nom.	Nom.	Nom.
LA45	Proposed	Pacific Pointe Project 18900 S. Vermont Avenue	Office Retail Less 50% Pass-By	275,000 GSF 10,000 GSF	[14] [6] [7]	3,028 429 (215)	375 6 (3)	51 4 (2)	426 10 (5)	70 18 (9)	340 19 (10)	410 37 (19)	652 500 (250)	61 25 (13)	52 24 (12)	113 49 (25)

Table 6-1 (Continued)  
LIST OF RELATED PROJECTS AND RELATED PROJECTS TRIP GENERATION FORECAST [1]

NO.	PROJECT STATUS	PROJECT NAME ADDRESS/LOCATION	LAND USE DATA		PROJECT DATA SOURCE	WEEKDAY						SATURDAY			
			LAND-USE	SIZE		DAILY TRIP ENDS [2] VOLUMES	AM PEAK HOUR VOLUMES [2]		PM PEAK HOUR VOLUMES [2]		DAILY TRIP ENDS [2] VOLUMES [2]	MID-DAY PEAK HOUR VOLUMES [2]			
							IN	OUT	IN	OUT		IN	OUT		
City of Los Angeles (continued)															
LA46	Proposed	Public Storage 1437-1459 W. 190th Street	Self-Storage	185,054 GSF	[25]	463	17	11	28	24	24	431	37	37	74
LA47	Proposed	HRB10-004 Capelin Distribution Center 20000 S. Western Avenue	Industrial	266,005 GSF	[16]	1,854	216	29	245	31	227	352	17	20	37
LA48	Proposed [NT]	ENV-2009-1034-EAF, HRB09-003 1717 W. 255th Street	Private School (K-8) Existing Private School (K-8) Existing Day Care Center	225 Students (47) Students (20) Students	[26] [26] [27]	2,030 (420) (90)	112 (23) (8)	91 (19) (8)	203 (42) (16)	Nom. Nom. (8)	Nom. Nom. (8)	Nom. Nom. (8)	Nom. Nom. (1)	Nom. Nom. (2)	Nom.
LA49	Proposed	HRB10-005 1524 Palos Verdes Drive North	Affordable Housing	76 DU	[4]	442	6	27	33	27	13	431	19	17	36
LA50	Under Construction [NT]	HRB08-001 3200 S. Alma St	High School Adult Evening School	810 Students 450 Students	[28] [29] [30]	1,385 540	231 Nom.	109 Nom.	340 Nom.	49 35	56 19	494 189	57 13	32 10	89 23
LA51	Proposed [NT]	HRB09-002 522 Flint Avenue	Grain Rail Transfer Facility	4 Acres	[16]	208	25	5	30	6	23	34	2	2	4
LA52	Proposed	ENV-2009-3810-EAF, HRB10-002 1655 E. Anaheim Street	Convenience Market Less 50% Pass-By Office	2,480 GLSF 2,852 GSF	[22] [7] [14]	1,830 (915) 31	83 (42) 4	83 (42) 0	166 (83) 4	66 (33) 1	64 (32) 3	2,140 (1,070) 7	96 (48) 1	95 (48) 0	191 (96) 1
LA53	Proposed	AA-2010-1580-PMLA 906 W. 30th Street	Condominium	3 DU	[4]	17	0	1	1	1	1	17	1	0	1
LA54	Under Construction	ZA-2010-1604-CU 750 W. Basin Street	Self-Storage	44,341 GSF	[25]	111	4	3	7	6	6	103	9	9	18
LA55	Proposed	ENV-2010-1216-CE 1401 W. 253rd Street	Condominium Existing Commercial	2 DU (3,500) GSF	[4] [6]	12 (150)	0 (2)	1 (2)	1 (4)	1 (6)	0 (7)	11 (175)	1 (9)	0 (8)	1 (17)
LA56	Proposed	ENV-2009-4097-CE Harbor Interfaith Services 678 W. 9th Street	Family Resource Center and Childcare Facilities	15,398 GSF	[27]	1,220	100	89	189	90	102	96	16	10	26
LA57	Proposed	ZA-2009-3972-CEX 100 N. Avalon Boulevard	Park	7,319 GSF	[31]	Nom.	Nom.	Nom.	Nom.	Nom.	Nom.	Nom.	Nom.	Nom.	Nom.
LA58	Built & Occupied	ENV-2009-3936-EAF, HRB10-001 25621 S. Normandie Avenue	Day Care	84 Students	[27]	376	36	31	67	32	37	33	6	3	9
LA59	Built & Occupied	HRB10-006 1603 W. 25th Street	Bank with Drive-Through Less 20% Pass-By Existing Auto Care Center	3,700 GSF (1,046) GLSF	[32] [33] [34]	548 (110) (40)	26 (5) (2)	20 (4) (1)	46 (9) (3)	48 (10) (2)	48 (10) (2)	319 (64) (17)	51 (10) (2)	47 (9) (2)	98 (20) (4)
LA60	Proposed	META Housing Corporation 303 S. Pacific Avenue	Senior Housing	70 DU	[21]	244	3	6	9	7	4	176	11	10	21

Table 6-1 (Continued)  
LIST OF RELATED PROJECTS AND RELATED PROJECTS TRIP GENERATION FORECAST [1]

NO.	PROJECT STATUS	PROJECT NAME ADDRESS/LOCATION	LAND USE DATA		PROJECT DATA SOURCE	WEEKDAY								SATURDAY		
			LAND-USE	SIZE		DAILY TRIP ENDS [2] VOLUMES	AM PEAK HOUR VOLUMES [2]		PM PEAK HOUR VOLUMES [2]		DAILY TRIP ENDS VOLUMES [2]	MID-DAY PEAK HOUR VOLUMES [2]				
							IN	OUT	IN	OUT		IN	OUT	IN	OUT	
City of Rancho Palos Verdes																
R1	Partially Built [NT]	Trump National Golf Club Palos Verdes Drive South/west of Shoreline Park	Single-Family Residential Affordable Housing (5 Homes Built)	54 DU 4 DU	[13] [13]	517 38	10 1	31 2	41 3	35 3	20 1	55 4	544 40	27 2	23 2	50 4
R2	Partially Built [NT]	Ocean Front Estates Seaward side of Palos Verdes Drive West terminus of Hawthorne Boulevard	Single-Family Residential (74 Homes Built)	5 DU	[13]	48	1	3	4	3	2	5	50	3	2	5
R3	Partially Built [NT]	TTM No. 52666 3200 Palos Verdes Drive West	Single-Family Residential (10 Homes Built)	3 DU	[13]	29	1	1	2	2	1	3	30	2	1	3
R4	Proposed	Marymount College Facilities Expansion 30800 Palos Verdes Drive East (793 Student Enrollment Cap with 250 student Bachelor of Arts Degree Program and 150 student Weekend Enrollment)	Junior College Bldg Expansion Demolish Existing Building BA Degree Program (University) Existing Junior College Jr. College Weekend Enrollment	77,504 SF (18,022) SF 250 Students (250) Students 67 Students	[35]	1,931	149	51	200	83	92	175	888	65	47	112
R5	Proposed	Crestridge Estate LLC 5601 Crestridge Road	Senior Center Senior Condominium	10,000 SF 90 DU	[36] [21]	229 313	10 4	6 8	16 12	6 8	9 6	15 14	91 226	6 14	5 13	11 27
R6	Proposed	Green Hills Memorial Park Master Plan 27501 S. Western Avenue	Cemetery	27.3 Acres	[37]	129	4	1	5	8	15	23	162	43	41	84
R7	Permit Expired 10/09	Hawthorne/Crest Office Building 29941 Hawthorne Boulevard	Office	7,232 GSF	[14]	80	10	1	11	2	9	11	17	2	1	3
R8	Proposed	Zone 2 Landslide Moratorium Ordinance Revision North of Palos Verdes Drive between Narcissa Drive and Peppertree Drive	Single-Family Residential	47 DU	[13]	450	9	26	35	30	17	47	474	23	21	44
R9	Under Construction [NT]	The Mirandela Project Northwest corner of Crestridge Road and Crenshaw Boulevard	Senior Apartment	34 DU	[38] [21]	272	2	16	18	16	9	25	85	5	5	10
R10	Proposed	Northwest corner of Granvia Altamira and Hawthorne Boulevard	Pharmacy Remove Gas-Station	10,880 GSF (8) VFP	[39] [40]	959 (4,341)	17 (67)	12 (66)	29 (133)	57 (77)	56 (76)	113 (153)	850 (1,636)	43 (41)	42 (39)	85 (80)
R11	Approved	Highridge Condominium Project 28220 Highridge Road	Condominium	28 DU	[4]	163	2	10	12	10	5	15	159	7	6	13
R12	Approved	St. John Fisher Church Expansion 5488 Crest Road	Day Care Center New Building Remove Existing Building	40 Students 32,426 SF (10,329) SF	[27] [41] [41]	179 295 (94)	17 11 (4)	15 7 (2)	32 18 (6)	16 9 (3)	17 9 (3)	33 (6)	16 336 (107)	3 (26)	1 (11)	4 (37)
R13	Proposed	Chevron with Car Wash 27774 Hawthorne Boulevard	Gas Station With Convenience Market and Car Wash	6 VFP	[42]	917	37	35	72	43	41	84	1,210	61	60	121
R14	Approved	Point Vicente Animal Hospital 31270 Palos Verdes Drive West	Animal Hospital	5,759 GSF	[43]	270	17	6	23	11	16	27	270	11	16	27
R15	Proposed	The Annenberg Project at Lower Point Vicente 31501 Palos Verdes Drive West			[44]	596	81	30	111	51	59	110	297	5	14	19

Table 6-1 (Continued)  
LIST OF RELATED PROJECTS AND RELATED PROJECTS TRIP GENERATION FORECAST [1]

NO.	PROJECT STATUS	PROJECT NAME ADDRESS/LOCATION	LAND USE DATA		PROJECT DATA SOURCE	WEEKDAY								SATURDAY		
			LAND-USE	SIZE		DAILY TRIP ENDS [2] VOLUMES	AM PEAK HOUR VOLUMES [2]		PM PEAK HOUR VOLUMES [2]		DAILY TRIP ENDS VOLUMES [2]	MID-DAY PEAK HOUR VOLUMES [2]				
							IN	OUT	IN	OUT		IN	OUT	IN	OUT	TOTAL
City of Rolling Hills Estates																
RH1	Proposed	Rolling Hills Covenant Church Expansion 2221-2222 Palos Verdes Drive North	Church	1,650 Seats	[45]	1,000	68	28	96	41	59	100	Nom.	Nom.	Nom.	
RH2	Proposed	South Coast County Golf Course 25706 Hawthorne Boulevard	Golf Course Club House	18 Holes 29,000 SF	[46]	643	32	8	40	23	27	50	731	41	42	83
RH3	Built/ Partially Occupied	Rolling Hills Villas 901 Deep Valley Drive	Senior Condominium Retail	41 Occ. DU 1,526 GLSF	[21] [6]	143 66	2 1	3 1	5 2	4 3	3 3	7 6	103 76	6 4	6 3	12 7
RH4	Built/ Partially Occupied	Silver Spur Court 981 Silver Spur Road	Condominium	18 DU	[4]	105	1	7	8	6	3	9	102	4	4	8
RH5	Approved	Silverdes Medical Office Project 828 Silver Spur Road	Medical Office Office	24,518 GSF 5,124 GSF	[47] [14]	886 56	44 7	12 1	56 8	23 1	62 7	85 8	220 12	51 1	38 1	89 2
RH6	Approved	Deep Valley Condominiums 627 Deep Valley Drive	Condominium Retail Less 10% Pass-By Less 10% Internal Capture Existing Car Wash Existing Auto Repair	58 DU 5,810 GSF  (13,608) SF (13,608) SF	[48] [4] [6] [49] [50]	636	(2)	15	13	30	21	51	329 290 (29) (29) (1,920) (96) (41)	15 15 (2) (1) (96) (41)	12 13 (1) (3) (92) (96) (49)	27 28 (1) (3) (192) (90)
RH7	Approved	Mediterranean Village 927 Deep Valley Drive	Condominium Retail	75 DU 2,000 SF	[4] [6]	436 86	6 1	27 1	33 2	26 3	13 4	39 7	425 100	19 5	16 5	35 10
RH8	Approved	827 Deep Valley Drive	Senior Condominium	16 DU	[21]	93	1	6	7	5	3	8	91	4	4	8
RH9	Proposed	Butcher Ranch Subdivision Palos Verdes Drive North and Montecello Drive	Single-Family Residential	11 DU	[13]	105	2	6	8	7	4	11	111	5	5	10
RH10	Approved	Crest Road Building 5883 Crest Road	Office Retail	4,545 GSF 1,215 GLSF	[14] [6]	50 52	6 1	1 0	7 1	1 2	6 3	7 5	11 61	1 3	1 3	2 6
RH11	Proposed	Chandler Ranch/Rolling Hills Country Club 26311 and 27000 Palos Verdes Drive East	Single-Family Residential Quality Restaurant Health/Fitness Club Tennis Courts New Social Club Members	114 DU 338 Seats 7,150 GSF 5 TC 100 Members	[51] [13] [52] [53] [54] [55]	1,486	24	42	66	152	70	222	1,149 950 149 139 80	56 66 9 8 3	50 46 11 7 4	106 46 20 15 7
RH12	Proposed	Brickwalk LLC Residential Project 655-683 Deep Valley Drive and 924-950 Indian Peak Road	Condominium Retail	148 DU 14,200 GLSF	[4] [6]	860 610	11 9	54 5	65 14	52 26	25 27	77 53	839 710	38 36	32 33	70 69
RH13	Proposed	Silver Center Project 449 Silver Spur Road	Retail/Commercial	4,745 GLSF	[6]	204	3	2	5	9	9	18	237	12	11	23
RH14	Proposed	Promenade at the Peninsula 520, 550, and 580 Deep Valley Drive	Condominium Retail	66 DU 16,620 GLSF	[4] [6]	383 714	5 10	24 7	29 17	23 30	11 32	34 62	374 831	17 42	14 39	31 81

Table 6-1 (Continued)  
LIST OF RELATED PROJECTS AND RELATED PROJECTS TRIP GENERATION FORECAST [1]

NO.	PROJECT STATUS	PROJECT NAME ADDRESS/LOCATION	LAND USE DATA		PROJECT DATA SOURCE	WEEKDAY						SATURDAY				
			LAND-USE	SIZE		DAILY TRIP ENDS [2]	AM PEAK HOUR VOLUMES [2]		PM PEAK HOUR VOLUMES [2]		DAILY TRIP ENDS [2]	MID-DAY PEAK HOUR VOLUMES [2]				
							IN	OUT	IN	OUT		IN	OUT	IN	OUT	TOTAL
City of Rolling Hills Estates (continued)																
RH15	Proposed	2901 Palos Verdes Drive North	Single-Family Residential	3 DU	[13]	29	1	1	2	2	30	2	1	3		
RH16	Proposed	Tanglewood Subdivision Northeast corner of Tanglewood Lane and Rolling Hills Road	Single-Family Residential	3 DU	[13]	29	1	1	2	2	30	2	1	3		
RH17	Proposed	Continental Development Project 627 Silver Spur Road	Condominium Commercial	70 DU 30,000 GSF	[4] [14]	407 330	5 41	26 6	31 47	24 8	397 71	18 6	15 6	33 12		
City of Carson																
C1	Proposed	Hopkins Real Estate Group 20700 S. Avalon Boulevard	Retail	41,000 GLSF	[6]	1,761	25	16	41	75	2,049	104	96	200		
C2	Under Construction [NT]	Boulevards at South Bay	Condominium Apartment Commercial Restaurant Hotel	1,150 DU 400 DU 1,654,000 SF 141,125 SF 300 Rooms	[56]	68,591	1,266	1,244	2,510	2,955	6,521 2,556 57,983 12,010 2,457	292 104 2,705 537 121	249 104 2,423 497 95	541 208 5,128 1,034 216		
C3	Proposed	Carson Street Master Plan	Mixed-Use													
C4	Proposed	Shell Specific Plan 20945 S. Wilmington Avenue	Industrial	1,500,000 SF 83,000 GLSF	[57] [6]	10,440 3,564	1,033 51	227 32	1,260 83	271 152	3,736 4,148	168 211	357 195	525 406		
C5	Proposed	BP Shop Building DOR 1365-2010 2350 E. 223rd Street	Warehouse	127,273 GSF	[15]	453	30	8	38	10	157	11	6	17		
C6	Proposed	Cityview 616 E. Carson Street	Single-Family Residential Condominium Commercial	29 DU 123 DU 20,000 GLSF	[13] [4] [6]	278 715 859	6 9 12	16 45 8	22 54 20	18 43 37	292 697 999	14 31 51	13 27 47	27 58 98		
C7	Under Construction [NT]	Gabuten Shopping Center 22005 S. Main Street	Commercial	8,700 GSF	[6]	374	5	4	9	16	435	22	21	43		
C8	Under Construction [NT]	Harbor Community Church of God 21739-21745 Dolores Street	Church	11,516 GSF	[41]	105	4	2	6	3	119	29	12	41		
C9	Proposed	Judson Baptist Church 451 E. 223rd Street	Church (Demolish Existing Church)	13,023 GSF (6,465) GSF	[41] [41]	119 (59)	4 (2)	3 (2)	7 (4)	3 (2)	135 (67)	33 (16)	13 (7)	46 (23)		
C10	Under Construction [NT]	Pacific Planning Group 101-155 E. Lomita Boulevard	Mixed-Use Retail Condominium Storage	16,530 GLSF 1 DU 105,490 GSF	[6] [4] [15]	710 6 376	10 0 25	7 0 7	17 0 32	30 1 9	826 6 130	42 0 9	39 0 5	81 0 14		
C11	On Hold	ProLogis 2211-2241/2307 E. Carson Street	Warehouse	273,323 GSF	[15]	973	65	17	82	22	336	23	13	36		
C12	Proposed	Related 425-437 E. Carson Street	Affordable Housing Live/Work	65 DU	[4]	378	5	24	29	23	369	17	14	31		



Table 6-1 (Continued)  
LIST OF RELATED PROJECTS AND RELATED PROJECTS TRIP GENERATION FORECAST [1]

NO.	PROJECT STATUS	PROJECT NAME ADDRESS/LOCATION	LAND USE DATA		PROJECT DATA SOURCE	WEEKDAY						SATURDAY			
			LAND-USE	SIZE		DAILY TRIP ENDS [2]	AM PEAK HOUR VOLUMES [2]		PM PEAK HOUR VOLUMES [2]		TOTAL	DAILY TRIP ENDS VOLUMES [2]	MID-DAY PEAK HOUR VOLUMES [2]		TOTAL
							IN	OUT	IN	OUT			IN	OUT	
City of Carson (continued)															
C13	Under Construction [NT]	Safraan City Center Project 708-724 E. Carson Street 21720-21814 S. Avalon Boulevard	Condominium Senior Housing Restaurant Retail	150 DU 86 DU 8,500 GSF 20,000 GSF	[4] [21] [8] [6]	872 299 1,081 859	11 4 51 12	55 7 47 8	66 11 98 20	52 8 56 37	26 6 39 38	78 14 95 75	38 13 64 51	33 13 56 47	71 26 120 98
C14	Proposed	DOR 1379-10 20400 S. Main Street	Landfill Operation Center Water Treatment Structure	6,528 GSF 7,179 GSF	[16]	46	5	1	6	1	5	6	0	1	1
C15	Proposed	CUP 799-10 21601-21607 S. Moneta Avenue	Adult Day Care	2,856 GSF	[27]	226	19	16	35	17	19	36	3	2	5
C16	Proposed	DOR 1334-09 22235 S. Figueroa Street	Gas Station with Convenience Market	2,254 GSF	[58]	2,190	91	88	179	110	109	219	110	109	219
C17	Approved	DOR 1339-09 628-640 E. Lincoln Street 24007 Broad Street	Single-Family Residential	7 DU	[13]	67	1	4	5	4	3	7	4	3	7
C18	Approved	CUP 722-09 129 E. 223rd Street	Day Care	20 Students	[27]	90	8	8	16	8	8	16	8	1	2
C19	Approved	DOR 1295-08 20630 Figueroa Street	Mixed-Use Business Park	265,000 GSF	[59]	3,381	318	61	379	79	263	342	678	16	69
C20	Proposed	DOR 1294-08 20331 S. Main Street	Apartment	197 DU	[5]	1,310	20	80	100	79	43	122	1,259	51	102
C21	Proposed	DOR 1282-08 440 E. Sepulveda Boulevard	Office Condominium	10,661 GSF 8 DU	[14] [4]	117 46	15 1	2 3	17 4	3 3	13 1	16 4	25 45	2 2	4 4
C22	Approved	CUP 352-88 22100 Dolores Street	Condominium	38 DU	[4]	221	3	14	17	13	7	20	215	10	18
C23	Proposed	CUP 696-08 214 E. 220th Street	Multi-Family Residential	5 DU	[5]	33	1	2	3	2	1	3	32	2	3
C24	Proposed	DOR 1329-09 21900 S. Main Street	Rectory	3,075 GSF	[41]	28	1	1	2	1	1	2	32	8	11
C25	Proposed	DOR 1391-10 21205 S. Main Street	Industrial Condominium	35,000 GSF 10 DU	[16]	244	28	4	32	4	30	34	46	2	5
City of Long Beach															
LB1	Proposed	West Gateway - New Urban Community 8 square blocks situated at the entry to the City's downtown core.	Condominium Apartment Retail	391 DU 409 DU 15,000 GLSF	[4] [5] [6]	2,272 2,720 644	29 42 9	143 167 6	172 209 15	136 165 27	67 89 29	203 254 56	99 107 38	85 106 35	184 213 73

Table 6-1 (Continued)  
LIST OF RELATED PROJECTS AND RELATED PROJECTS TRIP GENERATION FORECAST [1]

NO.	PROJECT STATUS	PROJECT NAME ADDRESS/LOCATION	LAND USE DATA		PROJECT DATA SOURCE	WEEKDAY						SATURDAY				
			LAND-USE	SIZE		DAILY TRIP ENDS [2]	AM PEAK HOUR VOLUMES [2]		PM PEAK HOUR VOLUMES [2]		DAILY TRIP ENDS VOLUMES [2]	MID-DAY PEAK HOUR VOLUMES [2]				
							IN	OUT	IN	OUT		IN	OUT			
City of Torrance																
T1	Approved	TorMed Medical Center Expansion 3330 Lomita Boulevard Northeast corner of Skypark Drive and Medical Center Drive	Hospital (Existing Medical Office)	389,216 GSF (23,764) GSF	[60] [47]	6,422 (859)	257 (43)	179 (12)	436 (55)	186 (22)	258 (60)	444 (82)	3,962 (213)	440 (49)	440 (37)	880 (86)
T2	Under Construction [NT]	CUP04-00007 24510 Hawthorne Boulevard	Office Restaurant Condominium	3,600 GSF 1,030 GSF 14 DU	[14] [61] [4]	40 737 81	5 27 1	1 18 5	6 45 6	1 14 5	4 13 2	5 27 7	9 717 79	1 27 4	0 29 3	1 56 7
T3	Approved	CUP07-00016, DOT Case No. OUT09-002 2740 Lomita Boulevard	Office Medical Office	222,189 GSF 129,020 GSF	[14] [47]	2,446 4,661	303 235	41 62	344 297	56 120	275 326	331 446	527 1,156	49 267	42 201	91 468
T4	Under Construction [NT]	Standard Pacific Homes 2303 Jefferson Street	Condominium	33 DU	[4]	192	3	12	15	11	6	17	187	9	7	16
T5	Approved	Sunrise Senior Living 25535 Hawthorne Boulevard	Assisted Living	103 Beds	[62]	274	9	5	14	10	13	23	227	16	18	34
T6	Approved	CUP07-00005 3525 Maricopa Street	Condominium	12 DU	[4]	70	1	4	5	4	2	6	68	3	3	6
T7	Approved	CUP07-00025 24255 Hawthorne Boulevard	Retail General Office Apartment	1,090 GLSF 1,122 GSF 6 DU	[6] [14] [5]	47 12 40	1 2 1	0 0 2	1 2 3	2 0 3	2 2 1	4 2 4	54 3 38	3 0 2	2 0 1	5 0 3
T8	Approved	CUP08-00025 23248 Hawthorne Boulevard	Drug Store with Drive-Through	12,850 GSF	[39]	1,133	19	15	34	67	66	133	1,010	51	50	101
T9	Approved	CUP08-00015 3720 Pacific Coast Highway	Shopping Center	20,300 GLSF	[6]	872	12	8	20	37	39	76	1,014	51	48	99
T10	Approved	Providence Medical CUP08-00011 5215 Torrance Boulevard	Medical Office Bldg - Phase I (Existing Office) Medical Office Bldg - Phase II	106,200 GSF (85,000) GSF 68,435 GSF	[47] [14] [47]	3,837 (936) 2,473	193 (116) 124	51 (16) 33	244 (132) 157	99 (22) 64	268 (105) 173	367 (127) 237	952 (201) 613	220 (19) 141	166 (16) 107	386 (35) 248
T11	Approved	CUP09-00018 2841 Lomita Boulevard	Medical Office (Existing Manufacturing)	66,000 GSF (66,000) GSF	[47] [63]	2,385 (252)	120 (37)	32 (11)	152 (48)	62 (17)	166 (31)	228 (48)	591 (98)	137 (9)	103 (9)	240 (18)
T12	EIR Required	CUP08-00026 20911 Earl Street	Medical Office	92,000 GSF	[47]	3,324	167	45	212	86	232	318	824	190	144	334
T13	Under Construction [NT]	CUP07-00008 1620 Gramercy Avenue	Condominium Shopping Center	7 DU 2,600 GLSF	[4] [6]	41 112	1 2	2 1	3 3	3 5	1 5	4 10	40 130	2 7	1 6	3 13
T14	Approved	CUP04-00004 1918 Artesia Boulevard	Synagogue	23,914 GSF	[64]	254	2	1	3	19	21	40	141	27	38	65
T15	Under Construction [NT]	CUP07-00024 1104 Sartori Avenue	Office Condominium	12,741 GSF	[14]	140	18	2	20	3	16	19	30	3	2	5
T16	Approved	CUP07-00031 2319 Apple Avenue	Condominium	6 DU	[4]	35	1	2	3	2	1	3	34	2	1	3

Table 6-1 (Continued)  
LIST OF RELATED PROJECTS AND RELATED PROJECTS TRIP GENERATION FORECAST [1]

NO.	PROJECT STATUS	PROJECT NAME ADDRESS/LOCATION	LAND USE DATA		PROJECT DATA SOURCE	WEEKDAY						SATURDAY				
			LAND-USE	SIZE		DAILY TRIP ENDS [2]	AM PEAK HOUR VOLUMES [2]		PM PEAK HOUR VOLUMES [2]		DAILY TRIP ENDS VOLUMES [2]	MID-DAY PEAK HOUR VOLUMES [2]				
							IN	OUT	IN	OUT		IN	OUT	IN	OUT	TOTAL
City of Torrance (continued)																
T17	Approved	CUP07-00033 435 Maple Avenue	Industrial	30,000 GSF	[16]	210	25	3	28	3	26	29	40	2	2	4
T18	Approved	CUP08-00010 2433 Moreton Street	Day Spa	27,000 GSF	[65]	330	33	0	33	7	32	39	1,370	49	88	137
T19	Approved	CUP08-00031 19701 Mariner Avenue	Industrial Condominium	14,929 GSF	[16]	104	12	2	14	2	12	14	20	1	1	2
T20	Approved	Toyota Dealership and Showroom 2909 Pacific Coast Highway	Auto Dealership	16,978 GSF	[66]	566	25	9	34	17	27	44	357	26	24	50
T21	Approved	Robinson Helicopter BLD09-01289 2931 Airport Drive	Manufacturing Addition	133,720 GSF	[63]	511	76	22	98	35	63	98	199	19	18	37
T22	Proposed	Wal-Mart BLD10-00478 22015 Hawthorne Boulevard	Superstore	75,400 GSF	[67]	4,316	54	26	80	189	188	377	5,359	284	273	557
City of Lomita																
L1	Built [NT]	SP No. 978 2040 & 2046 Lomita Boulevard	Commercial	14,330 GLSF	[6]	615	9	5	14	26	27	53	716	36	34	70
L2	Approved	TTM No. 60165 25819-25 Estelman Avenue	Senior Housing	20 Occ. DU	[21]	70	1	2	3	2	1	3	50	3	3	6
L3	Approved	CUP 242, TTM No. 067343 25316 Ebony Lane	Senior Housing	16 Occ. DU	[21]	56	1	1	2	2	1	3	40	3	2	5
L4	Approved Site Vacant	SP No. 1096 Southeast corner of Western Avenue and 262nd Street	Office	11,100 GSF	[14]	122	15	2	17	3	14	17	26	3	2	5
L5	Approved	SP 1003, HVP 73, TTM 53874 25829-25837 Estelman Avenue	Condominium	16 DU	[4]	93	1	6	7	5	3	8	91	4	4	8
L6	Proposed	SP 1014, TPM 61155 1837 and 1839 W. 257th Street	Condominium	3 DU	[4]	17	0	1	1	1	1	2	17	1	0	1
L7	Appealed	SP 1049 2244 Pacific Coast Highway	Retail	18,285 GLSF	[6]	785	11	7	18	33	35	68	914	46	43	89
L8	Approved	SP 1130 2266 Lomita Boulevard	Commercial	1,076 GSF	[6]	46	1	0	1	2	2	4	54	3	2	5
L9	Approved	CUP 269, SP 1131 2477 Lomita Boulevard	Convenience Store Addition to Car Wash	2,402 GSF 270 GSF	[22] [49]	1,773 40	81 None	80 None	161 None	64 2	62 2	126 4	2,073 40	93 2	92 2	185 4
L10	Proposed	SP 1132 2344 Lomita Boulevard	Storage Building	2,250 GSF	[15]	8	1	0	1	0	1	1	3	Nom.	Nom.	Nom.

Table 6-1 (Continued)  
LIST OF RELATED PROJECTS AND RELATED PROJECTS TRIP GENERATION FORECAST [1]

NO.	PROJECT STATUS	PROJECT NAME ADDRESS/LOCATION	LAND USE DATA		PROJECT DATA SOURCE	WEEKDAY						SATURDAY			
						DAILY TRIP ENDS [2]		AM PEAK HOUR VOLUMES [2]		PM PEAK HOUR VOLUMES [2]		DAILY TRIP ENDS [2]		MID-DAY PEAK HOUR VOLUMES [2]	
			LAND-USE	SIZE		IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
L11	Proposed	CUP 268, TPM 066806, SP 1123 25322 Cypress Street	Condominium	3 DU	[4]	17	0	1	1	1	1	17	1	0	1
County of Los Angeles															
LAC 1	Approved	7-Eleven 1259 W. Carson Street	Convenience Store Commercial	2,400 GSF 2,850 GSF	[22]	1,771 122	81 2	161 3	64 5	62 6	126 11	2,071 142	93 7	92 7	185 14
LAC 2	Proposed	R2007-00791 20320 Hamilton Avenue	Adult Cabaret (Existing Furniture Store)	4,325 GSF (4,325) GSF	[68] [69]	1,670 (22)	None (1)	None (1)	107 (1)	60 (1)	167 (2)	1,670 (21)	95 (2)	72 (2)	167 (4)
LAC 3	Approved	R2008-00597 958 Sepulveda Boulevard	Gym (Existing Commercial)	44,000 GSF (44,000) GSF	[53] [6]	1,449 (1,889)	27 (27)	61 (17)	88 (80)	67 (84)	155 (164)	918 (2,199)	55 (112)	67 (103)	122 (215)
TOTAL						232,982	9,276	6,314	15,590	9,528	11,763	206,240	11,305	10,645	21,950

[1] Sources: City of Los Angeles City Planning Department, City of Los Angeles Department of Transportation, City of Los Angeles WLA Related Projects Map (Bing.com), City of Rancho Palos Verdes Planning Department, City of Rolling Hills Planning Department, City of Rolling Hills Escondido Planning Department, City of Carson Planning Division, City of Long Beach Planning Department, City of Torrance Community Development Department, City of Lomita Planning Department, and Los Angeles County Department of Regional Planning.  
The peak hour traffic volumes were forecast based on either related projects data obtained from the respective agencies or applied trip rates as provided in the ITE "Trip Generation", 8th Edition, 2008 (as referenced in the Project Data Source column).

[2] Trips are one-way traffic movements, entering or leaving.

[3] Source: "San Pedro Mixed-Use Development Traffic Study", by Meyer, Mohaddes Associates, Inc.

[4] ITE Land Use Code 220 (Residential Condominium/Townhome) trip generation average rates.

[5] ITE Land Use Code 220 (Apartment) trip generation average rates.

[6] ITE Land Use Code 820 (Shopping Center) trip generation average rates.

[7] Pass-by trips are made as intermediate stops on the way from an origin to a primary trip destination without a route diversion. Pass-by trips are attracted from traffic passing the site on an adjacent street or roadway that offers direct access to the site. Pass-by reductions were based on the City of Los Angeles Department of Transportation policy on pass-by trips.

[8] ITE Land Use Code 932 (High-Turnover Sit-Down Restaurant) trip generation average rates.

[9] Source: Traffic Study for the San Pedro Waterfront Project, prepared by Fehr & Peers, May 2008.

[10] Source: Traffic Study for the San Pedro Waterfront Project, prepared by Fehr & Peers, May 2008. Daily trip ends from LADOT Case Number 2005-CEN-2126.

[11] Source: Berths 136-147 Terminal EIS/EIR, prepared by SAC, November 2007. Daily trip ends estimated based on the assumption that the higher of the AM or PM total peak hour traffic volume typically represents 10 percent of the daily traffic volume.

[12] Source: Berths 136-147 Terminal EIS/EIR, prepared by SAC, November 2007. Daily trip ends estimated based on the assumption that the higher of the AM or PM total peak hour traffic volume typically represents 10 percent of the daily traffic volume.

[13] ITE Land Use Code 210 (Single-Family Detached Housing) trip generation average rates.

[14] ITE Land Use Code 710 (General Office Building) trip generation average rates.

[15] ITE Land Use Code 150 (Warehouse) trip generation average rates.

[16] ITE Land Use Code 110 (Light Industrial) trip generation average rates.

[17] LADOT trip generation forecast. Directional distribution for the ITE Land Use Code 720 (Medical-Dental Office) obtained from the ITE "Trip Generation," 7th Edition, 2003.

[18] ITE Land Use Code 536 (Private School [K-12]) trip generation average rates.

[19] Source: Draft Environmental Impact Report for the Wilmington Waterfront Development Project, prepared by Jones & Stokes, December 2008. Saturday trip generation forecast based on applied trip rates as provided in the ITE "Trip Generation," 7th Edition, 2003.

[20] ITE Land Use Code 412 (County Park) trip generation average rates.

[21] ITE Land Use Code 252 (Senior Adult Housing-Attached) trip generation average rates.

[22] ITE Land Use Code 851 (Convenience Market [Open 24 Hours]) trip generation average rates.

[23] Source: "1311 West Sepulveda Boulevard Project" Traffic Impact Study, prepared by LLG Engineers, July 2009.

[24] ITE Land Use Code 520 (Elementary School) trip generation average rates.

[25] ITE Land Use Code 151 (Mini-Warehouse) trip generation average rates.

[26] ITE Land Use Code 534 (Private School [K-8]) trip generation average rates. Daily trip ends estimated based on the assumption that the higher of the AM or PM total peak hour traffic volume typically represents 10 percent of the daily traffic volume.

[27] ITE Land Use Code 565 (Day Care Center) trip generation average rates.

[28] Source: "Traffic Impact Study - LAUSD South Region High School #15," prepared June 30, 2008.

[29] ITE Land Use Code 530 (High School) trip generation average rates.

[30] ITE Land Use Code 540 (Junior Community College) trip generation average rates.

[31] ITE Land Use Code 411 (City Park) trip generation average rates.

[32] ITE Land Use Code 912 (Drive-In Bank) trip generation average rates.

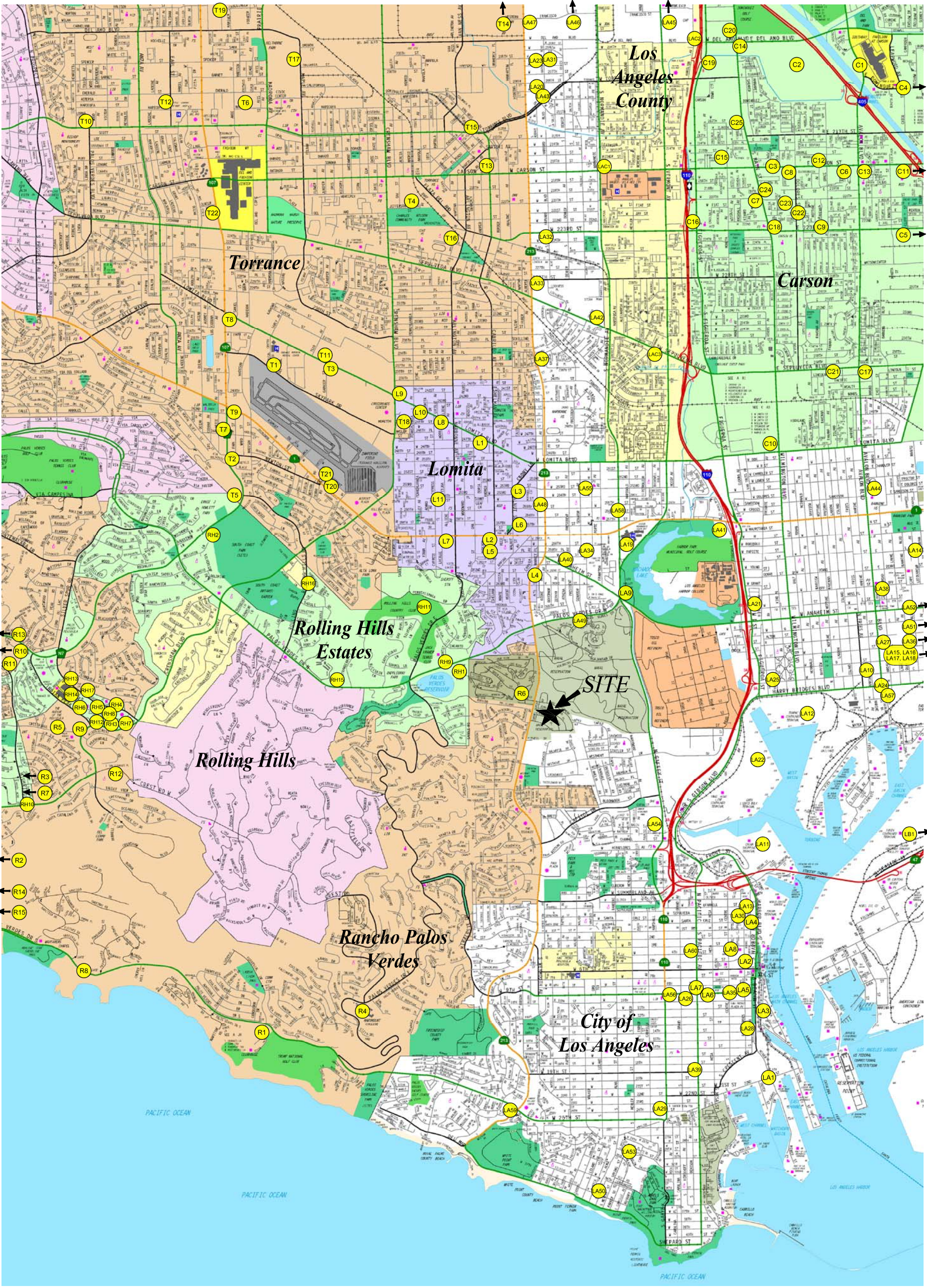
[33] Source: "South Shores Center Project" Draft Traffic Impact Study, prepared by LLG Engineers, June 2010.

[34] ITE Land Use Code 942 (Automobile Care Center) trip generation average rates. Daily trip ends estimated based on the assumption that the higher of the AM or PM total peak hour traffic volume typically represents 10 percent of the daily traffic volume. Saturday Mid-day peak hour traffic volumes based on Weekday PM trip generation average rates.

Table 6-1 (Continued)  
LIST OF RELATED PROJECTS AND RELATED PROJECTS TRIP GENERATION FORECAST [1]

- [35] Source: Marymount College Facilities Expansion Project Bachelor of Arts Degree Program Environmental Impact Report Appendix D, January 2010.
- [36] ITE Land Use Code 495 (Recreational Community Center) trip generation average rates.
- [37] ITE Land Use Code 566 (Cemetery) trip generation average rates.
- [38] The AM and PM peak hour trip generation forecast based on County of Los Angeles trip generation rates for townhomes/condominiums consistent with the "Traffic Impact Analysis for Senior Apartment Project", prepared by LLG Engineers, January 15, 2009.
- [39] ITE Land Use Code 881 (Pharmacy/Drugstore with Drive-Through) trip generation average rates. Saturday PM mid-day peak hour traffic volumes represent ten percent of the Saturday daily trip generation forecast.
- [40] ITE Land Use Code 853 (Convenience Market with Gas Pumps) trip generation average rates.
- [41] ITE Land Use Code 560 (Church) trip generation average rates.
- [42] ITE Land Use Code 946 (Gasoline/Service Station with Convenience Market and Car Wash) trip generation average rates. Saturday PM mid-day peak hour traffic volumes represent ten percent of the Saturday daily trip generation forecast.
- [43] ITE Land Use Code 640 (Animal Hospital/Veterinary Clinic) trip generation average rates. Daily trip ends estimated based on the assumption that the higher of the AM or PM total peak hour traffic volume typically represents 10 percent of the daily traffic volume.
- [44] Source: "The Annenberg Project at Lower Point Vieño", Traffic Impact Study, prepared by LLG Engineers, July 2010.
- [45] Source: City of Rolling Hills Planning Department. Saturday trip generation forecast based on ITE Land Use Code 252 trip generation rates for Saturday.
- [46] ITE Land Use Code 450 (Golf/Course) trip generation average rates.
- [47] ITE Land Use Code 720 (Medical-Dental Office Building) trip generation average rates.
- [48] The AM and PM peak hour trip generation forecast obtained from the Traffic Impact Analysis, "627 Deep Valley Drive Residential Mixed-Use Development", prepared by DKS Associates, October 13, 2005. Saturday trip generation forecast based on ITE Trip Generation Manual.
- [49] ITE Land Use Code 948 (Automated Car Wash) trip generation average rates. Daily trip ends estimated based on the assumption that the higher of the AM or PM total peak hour traffic volume typically represents 10 percent of the daily traffic volume.
- [50] ITE Land Use Code 943 (Automobile Parts and Service Center) trip generation average rates. Daily trip ends estimated based on the assumption that the higher of the AM or PM total peak hour traffic volume typically represents 10 percent of the daily traffic volume.
- [51] The AM and PM peak hour trip generation forecast obtained from the Chandler Ranch/Rolling Hills Country Club Project DEIR, April 30, 2009. Saturday trip generation forecast based on ITE Trip Generation manual.
- [52] ITE Land Use Code 931 (Quality Restaurant) trip generation average rates.
- [53] ITE Land Use Code 492 (Health/Fitness Center) trip generation average rates.
- [54] ITE Land Use Code 490 (Tennis Courts) trip generation average rates.
- [55] ITE trip rates not provided in the ITE Trip Generation manual. Saturday new member trips calculated based on existing clubhouse trips during the PM peak hour.
- [56] Source: "Traffic Impact Study for the Carson Marketplace", October 2005 prepared by Kaku Associates. Saturday trip generation forecast based on the ITE land use categories and weekday trip generation assumptions in the Traffic Impact Study.
- [57] ITE Land Use Code 130 (Industrial Park) trip generation average rates.
- [58] ITE Land Use Code 945 (Gasoline/Service Station with Convenience Market) trip generation average rates. Daily trip ends estimated based on the assumption that the higher of the AM or PM total peak hour traffic volume typically represents 10 percent of the daily traffic volume.
- Saturday Mid-day peak hour traffic volumes based on Weekday PM trip generation average rates.
- [59] ITE Land Use Code 770 (Business Park) trip generation average rates. Saturday Mid-day peak hour traffic volumes based on Weekday PM trip generation average rates.
- [60] ITE Land Use Code 610 (Hospital) trip generation average rates.
- [61] ITE Land Use Code 933 (Fast-Food Restaurant without Drive Through) trip generation average rates.
- [62] ITE Land Use Code 254 (Assisted Living) trip generation average rates.
- [63] ITE Land Use Code 140 (Manufacturing) trip generation average rates.
- [64] ITE Land Use Code 361 (Synagogue) trip generation average rates.
- [65] ITE Land Use Code 918 (Hair Salon) trip generation average rates. Daily trip ends estimated based on the assumption that the higher of the AM or PM total peak hour traffic volume typically represents 10 percent of the daily traffic volume.
- [66] ITE Land Use Code 841 (New Car Sales) trip generation average rates.
- [67] ITE Land Use Code 815 (Free-Standing Discount Store) trip generation average rates.
- [68] ITE Land Use Code 440 (Adult Cabaret) trip generation average rates. Daily trip ends estimated based on the assumption that the higher of the AM or PM total peak hour traffic volume typically represents 10 percent of the daily traffic volume.
- [69] ITE Land Use Code 890 (Furniture Store) trip generation average rates.
- [NT1] Near-Term Related Project; i.e. development that is under construction and/or expected to be completed in the year 2012.





MAP SOURCE: RAND MCNALLY & COMPANY



LEGEND:  
 LA - City of Los Angeles  
 LAC - Los Angeles County  
 LB - City of Long Beach  
 RH - City of Rolling Hills Estates

R - City of Rancho Palos Verdes  
 T - City of Torrance  
 L - City of Lomita  
 C - City of Carson

# FIGURE 6-1 LOCATION OF RELATED PROJECTS

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PONTE VISTA AT SAN PEDRO PROJECT



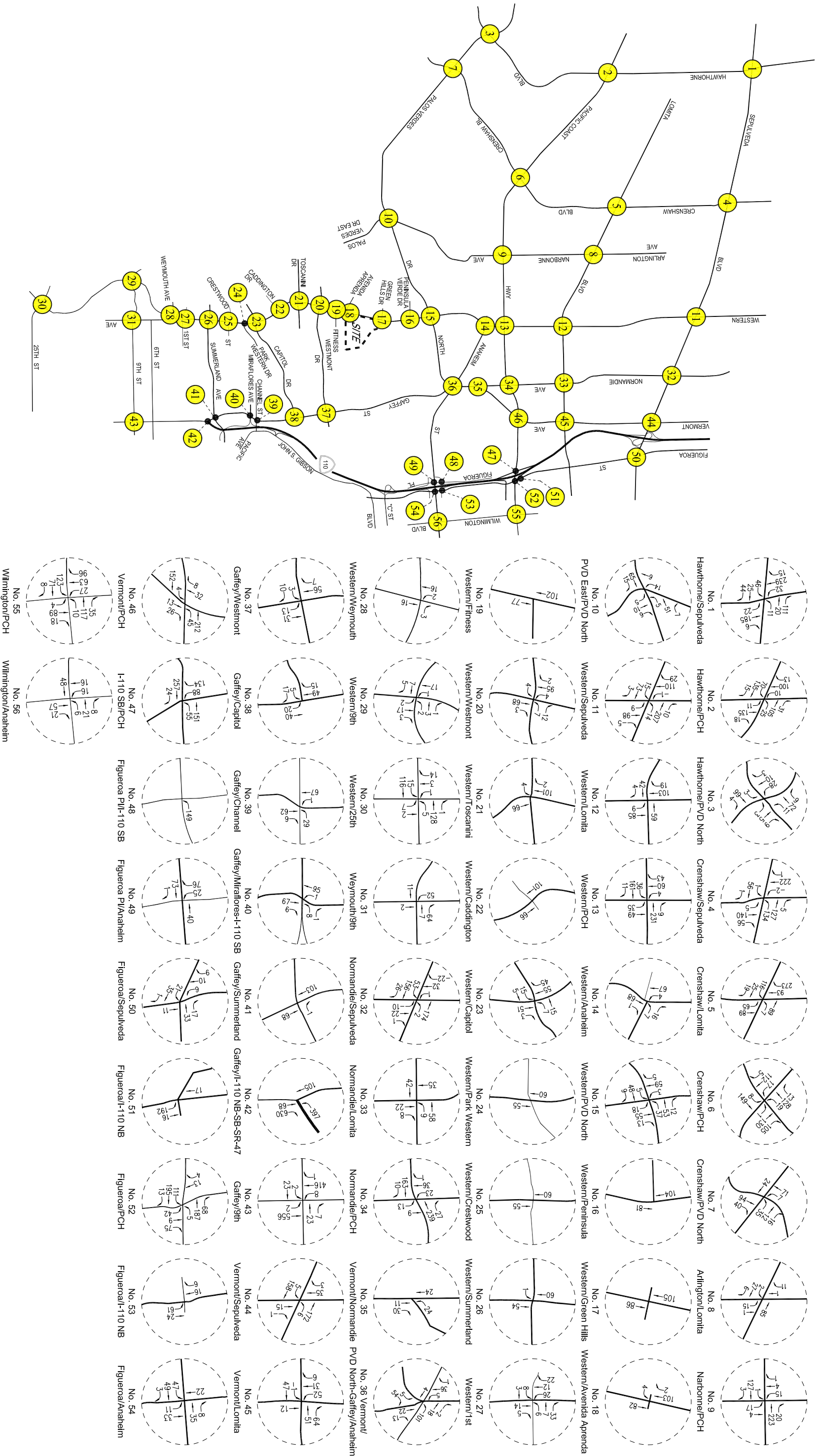


FIGURE 6-2

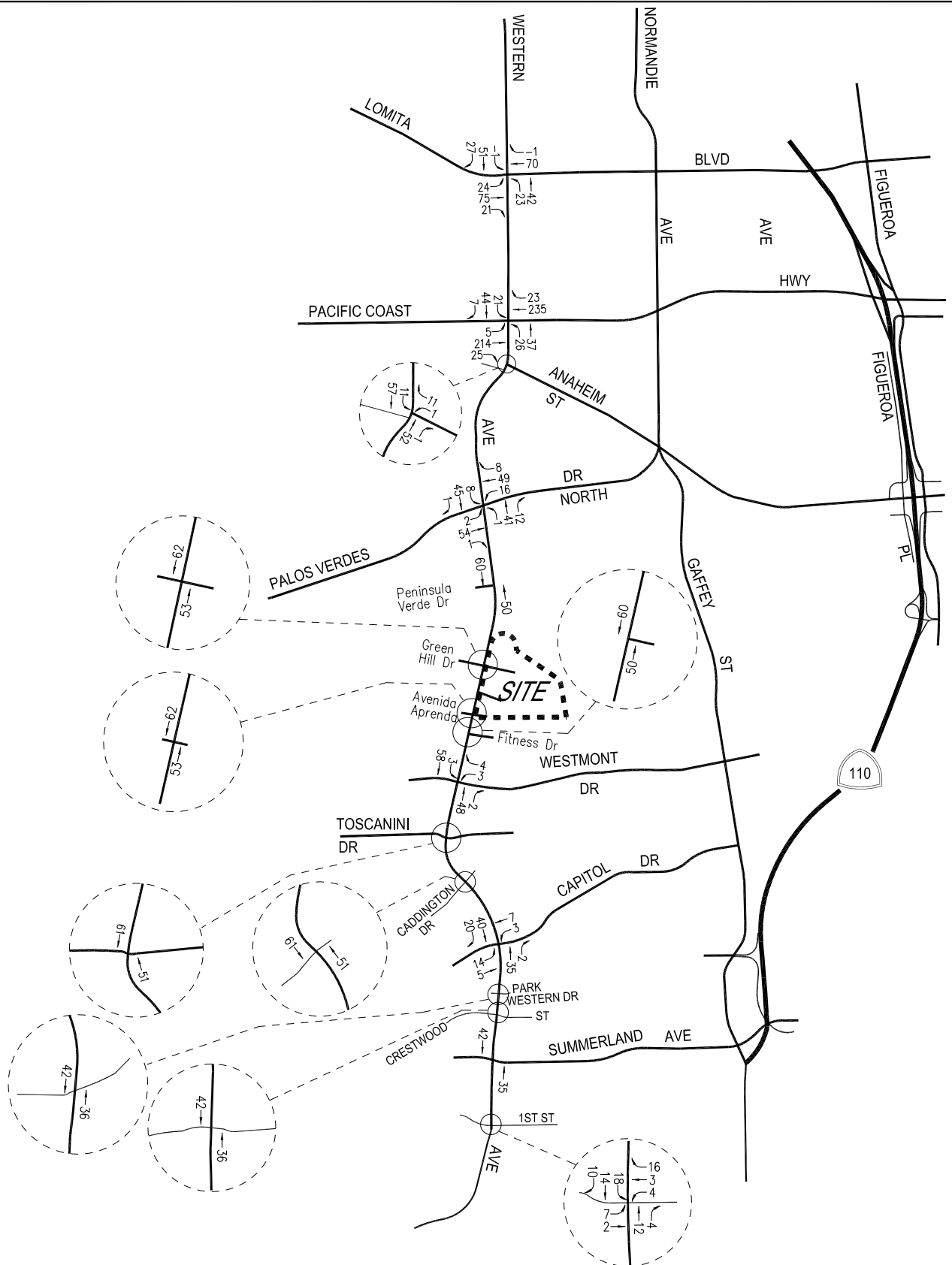
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RELATED PROJECTS TRAFFIC VOLUMES  
WEEKDAY AM PEAK HOUR  
PONTE VISTA AT SAN PEDRO PROJECT





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**FIGURE 6-4**  
**RELATED PROJECTS TRAFFIC VOLUMES**  
**SATURDAY MID-DAY PEAK HOUR**

LINSCOTT, LAW & GREENSPAN, engineers

PONTE VISTA AT SAN PEDRO PROJECT

## 6.2 Ambient Traffic Growth Factor

The existing traffic volumes were increased at an annual rate of one percent (1.0%) per year both to the near-term year 2012 (i.e., the expected year of project approval) and to the future year 2017 (i.e., the anticipated year of project build-out). The ambient growth factor was based on general traffic growth factors provided in the *2010 Congestion Management Program for Los Angeles County* (the “CMP manual”) and determined in consultation with LADOT staff. The traffic growth rate is intended to anticipate future traffic generated by development projects in the project vicinity. It is also noted that based on review of empirical data and the general traffic growth factors provided in the CMP manual for the Palos Verdes area, it is anticipated that the existing traffic volumes are actually expected to increase at an annual rate of less than 1.0% per year between the years 2010 and 2020. Thus, the inclusion in this traffic analysis of both a forecast of traffic generated by known related projects plus the use of an ambient growth traffic factor based on CMP traffic model data likely overstates future pre-project conditions and future traffic volumes at the study intersections.

## 6.3 ATSAC/ATCS Traffic Signal Synchronization

Based on information provided by LADOT in February 2012, ATSAC (Automated Traffic Surveillance and Control) with ATCS (Adaptive Traffic Control System) capability has been constructed in its San Pedro system of signalized intersections and was functional as of the first quarter of 2011. As the proposed project’s NOP occurred in October 2010 and project approval is expected in year 2012, the traffic benefits of the synchronized ATSAC/ATCS traffic signal system in San Pedro have been assumed in the year 2012 near-term condition of the traffic study. Design of ATSAC/ATCS for signalized intersections in Wilmington has been completed, and funding has been received by LADOT to begin construction. LADOT currently estimates that construction of the Wilmington ATSAC/ATCS system will be completed in July 2012. To provide a conservative analysis, the traffic benefits of the Wilmington ATSAC/ATCS have not been assumed in the 2012 near-term traffic analysis. Thus, the traffic benefits of the synchronized ATSAC/ATCS traffic signal system in Wilmington will be assumed in the year 2017 future condition (i.e., the anticipated year of project build-out) of the traffic study. Further, ATSAC/ATCS has not been assumed for potential traffic mitigation for the Ponte Vista project. Caltrans previously implemented a synchronization system similar to ATSAC for signalized intersections along Western Avenue (as well as on other nearby State highways such as State Route 1) not operated by LADOT, and thus, the traffic benefits have accordingly been assumed within the traffic analysis as part of existing conditions at these intersections.

## 6.4 Western Avenue Task Force

The Western Avenue Task Force is a working group overseen by Caltrans and consists of residents and technical staff from the City of Los Angeles and the City of Rancho Palos Verdes. The group was formed to serve as a forum for communication between public agencies and community representatives. The group has met to discuss transportation issues related to Western Avenue.

In the summer of 2005, Caltrans issued a report, *Western Corridor Improvement Project*<sup>5</sup>, which outlines recommended immediate, short-term, and long-term transportation improvements. The focus of the Caltrans report was the segment of Western Avenue between 25<sup>th</sup> Street and Palos Verdes Drive North (identified as Segment 1 in the document). The key recommendations from the Caltrans report are as follows:

- Immediate Improvements: Coordinate traffic signals along Western Avenue by providing a consistent 90-second cycle length currently used by LADOT. The signal coordination project has been completed.
- Short-Term Improvements: Synchronize the operation of traffic signals along Western Avenue through the installation of traffic signal interconnect and computer equipment. The report estimates that the synchronization of traffic signals will improve the calculated Levels of Service at intersections in the corridor by an average of 12 percent. Also, where feasible, the striping on Western Avenue at intersection approaches will be modified to provide a separate right-turn lane (e.g., a lane configuration of one left-turn lane, two through lanes, and one right-turn lane). The synchronization of the traffic signals has been partially completed.
- Long-Term Improvements: The report recommends that Western Avenue be widened through the corridor to provide a third through travel lane in each direction.

The Caltrans report provides target dates for implementation of the improvements of which some improvements have been implemented. For example, as noted above, Caltrans implemented a traffic signal synchronization system for intersections on Western Avenue it maintains by agreement with the cities of Rancho Palos Verdes and Lomita for the segment between Palos Verdes Drive North and Summerland Avenue. Further, as discussed above, LADOT is completing construction of the San Pedro ATSAC system, which includes Western Avenue intersections between 1<sup>st</sup> Street and 25<sup>th</sup> Street. Western Avenue intersections within the LADOT Wilmington ATSAC system are located between Lomita Boulevard and Anaheim Street, which will be constructed at such time LADOT receives funding from the State as noted above.

For the remaining Short-Term measures identified in the Western Avenue Task Force report (specifically, the separate right-turn lanes at intersections), as well as the Long-Term measures (i.e., a third through travel lane on Western in each direction), the report identifies no funding sources for their design and construction. Because there is no reasonable certainty regarding the schedule for the implementation of the remaining Short-Term improvements and the Long-Term measures, these capacity enhancements have not been assumed herein as part of the year 2017 future conditions (pre-project).

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<sup>5</sup> *WESTERN CORRIDOR IMPROVEMENT PROJECT On Western Avenue (SR-213) to 25<sup>th</sup> Street (PM 0.0) to Palos Verdes Dr. North (PM 004.314)*; Proposed by: Joint Regional Western Avenue Task Force; Caltrans, LADOT and City of Rancho Palos Verdes; 2005.

## 7.0 TRAFFIC FORECASTING METHODOLOGY

In order to estimate the traffic impact characteristics of the Ponte Vista at San Pedro project, a multi-step process has been utilized. The first step is trip generation, which estimates the total arriving and departing traffic volumes on a peak hour and daily basis. The traffic generation potential is forecast by applying the appropriate vehicle trip generation equations or rates to the project development tabulation.

The second step of the forecasting process is trip distribution, which identifies the origins and destinations of inbound and outbound project traffic volumes. These origins and destinations are typically based on demographics and existing/anticipated travel patterns in the study area.

The third step is traffic assignment, which involves the allocation of project traffic to study area streets and intersections. Traffic assignment is typically based on minimization of travel time, which may or may not involve the shortest route, depending on prevailing operating conditions and travel speeds. Traffic distribution patterns are indicated by general percentage orientation, while traffic assignment allocates specific volume forecasts to individual roadway links and intersection turning movements throughout the study area.

With the forecasting process complete and project traffic assignments developed, the impact of the proposed project is isolated by comparing operational (i.e., Levels of Service) conditions at the selected key intersections using existing and expected future traffic volumes without and with forecast project traffic. The need for site-specific and/or cumulative local area traffic improvements can then be evaluated and the significance of the project's impacts identified.

### 7.1 Project Trip Generation

Traffic volumes expected to be generated by the proposed project during the weekday AM and PM peak hours and Saturday mid-day peak hour, as well as on a daily basis for a weekday and a Saturday, were estimated using rates published in the ITE *Trip Generation* manual. Traffic volumes expected to be generated by the residential land use components were based upon rates per number of dwelling units. ITE Land Use Code 210 (Single-Family Detached Housing) trip generation average rates were used to forecast the traffic volumes expected to be generated by the detached residential land use. ITE Land Use Code 230 (Residential Condominium/Townhouse) trip generation average rates were used to forecast the traffic volumes expected to be generated by the multi-family condominium land use. ITE Land Use Code 220 (Apartment) trip generation average rates were used to forecast the traffic volumes expected to be generated by the apartment land use. Traffic volumes expected to be generated by the park land use component were based upon rates per acre. ITE Land Use Code 412 (County Park) trip generation average rates were used to forecast the traffic volumes expected to be generated by the park land use. The ITE project trip generation forecast was reviewed and approved by LADOT staff for use in the traffic analysis.

The ITE manual contains trip rates for a variety of land uses (including office buildings, shopping centers, condominiums, etc.), which have been derived based on traffic counts conducted at existing sites. The traffic count data submitted to ITE is for free-standing sites generally located in suburban locations. As stated on page 1 of the ITE *Trip Generation, 8<sup>th</sup> Edition, User's Guide*:

“Data were primarily collected at suburban locations having little or no transit service, nearby pedestrian amenities, or travel demand management (TDM) programs.”

For most of the land uses evaluated in the ITE manual, the trip generation data is summarized statistically in both weighted average and regression curve format. While the weighted average is simply a “straight line” through the trip generation data, the regression analysis provides a “best fit” line (typically nonlinear) of the data. As stated on page 17 of the ITE *User's Guide*:

“Regression analysis provides a tool for developing an equation that defines the line that “fits best” through the data points.”

In certain circumstances, ITE recommends use of the regression equation as compared to the weighted average for purposes of forecasting trips associated with a land use. It is stated on page 9 of the ITE publication *Trip Generation Handbook, 2<sup>nd</sup> Edition*:

“When the *Trip Generation* data plot contains more than 20 data points and a regression curve and equation are provided, use of the regression equation is recommended.”

Also noted on page 9:

“A regression equation with an  $R^2$  of at least 0.75 is preferred because it indicates the desired level of correlation between the trips generated by a site and the value measure for an independent variable.”

With respect to the ITE Land Use Code 210 (Single-Family Detached Housing), ITE Land Use Code 220 (Apartment) and Land Use Code 230 (Residential Condominium/Townhouse), the trip generation data is such that use of the regression equation for forecasting purposes would be supported. However, to provide a conservative, worst case forecast, the weighted average trip rates provided by ITE for Land Use Codes 210, 220 and 230 have been used for purposes of estimating trip generation associated with the Ponte Vista project.

#### 7.1.1 Weekday Project Trip Generation Summary

The weekday trip generation forecast for the proposed project is summarized in **Table 7-1**. As summarized in *Table 7-1*, the proposed project is expected to generate 112 inbound trips and 459 outbound trips during the weekday AM peak hour. During the PM peak hour, the proposed project is expected to generate 458 inbound trips and 241 outbound trips. Over a 24-hour period, the proposed project is forecast to generate 3,734 inbound trips and 3,734 outbound trips.

Table 7-1  
PROJECT TRIP GENERATION [1]

LAND USE	SIZE	WEEKDAY						SATURDAY		
		DAILY TRIP ENDS [2]	AM PEAK HOUR VOLUMES [2]		PM PEAK HOUR VOLUMES [2]		DAILY TRIP ENDS [2]	MID-DAY PEAK HOUR VOLUMES [2]		TOTAL
			IN	OUT	IN	OUT		IN	OUT	
Single-Family [3]	143 DU	1,369	27	80	91	53	1,441	70	63	133
Condominium [4]	600 DU	3,486	45	219	209	103	3,402	152	130	282
Apartment [5]	392 DU	2,607	40	160	158	85	2,505	110	94	204
Park [6]	2.8 AC	6	Nom.	Nom.	Nom.	Nom.	34	4	2	6
<b>TOTAL</b>		<b>7,468</b>	<b>112</b>	<b>459</b>	<b>458</b>	<b>241</b>	<b>7,382</b>	<b>336</b>	<b>289</b>	<b>625</b>

[1] Source: ITE "Trip Generation", 8th Edition, 2008.

[2] Trips are one-way traffic movements, entering or leaving.

[3] ITE Land Use Code 210 (Single-Family Detached Housing) trip generation average rates.

- Weekday Daily Trip Rate: 9.57 trips/DU; 50% inbound/50% outbound  
 - Weekday AM Peak Hour Trip Rate: 0.75 trips/DU; 25% inbound/75% outbound  
 - Weekday PM Peak Hour Trip Rate: 1.01 trips/DU; 63% inbound/37% outbound  
 - Saturday Daily Trip Rate: 10.08 trips/DU; 50% inbound/50% outbound  
 - Saturday Peak Hour Trip Rate: 0.93 trips/DU; 53% inbound/47% outbound

[4] ITE Land Use Code 230 (Residential Condominium/Townhouse) trip generation average rates.

- Weekday Daily Trip Rate: 5.81 trips/DU; 50% inbound/50% outbound  
 - Weekday AM Peak Hour Trip Rate: 0.44 trips/DU; 17% inbound/83% outbound  
 - Weekday PM Peak Hour Trip Rate: 0.52 trips/DU; 67% inbound/33% outbound  
 - Saturday Daily Trip Rate: 5.67 trips/DU; 50% inbound/50% outbound  
 - Saturday Peak Hour Trip Rate: 0.47 trips/DU; 54% inbound/46% outbound

[5] ITE Land Use Code 220 (Apartment) trip generation average rates.

- Weekday Daily Trip Rate: 6.65 trips/DU; 50% inbound/50% outbound  
 - Weekday AM Peak Hour Trip Rate: 0.51 trips/DU; 20% inbound/80% outbound  
 - Weekday PM Peak Hour Trip Rate: 0.62 trips/DU; 65% inbound/35% outbound  
 - Saturday Daily Trip Rate: 6.39 trips/DU; 50% inbound/50% outbound  
 - Saturday Peak Hour Trip Rate: 0.52 trips/DU; 54% inbound/46% outbound

[6] ITE Land Use Code 412 (County Park) trip generation average rates.

- Weekday Daily Trip Rate: 2.28 trips/acre; 50% inbound/50% outbound  
 - Weekday AM Peak Hour Trip Rate: 0.01 trips/acre; assume 80% inbound/20% outbound  
 - Weekday PM Peak Hour Trip Rate: 0.06 trips/acre; 41% inbound/59% outbound  
 - Saturday Daily Trip Rate: 12.14 trips/acre; 50% inbound/50% outbound  
 - Saturday Peak Hour Trip Rate: 2.24 trips/acre; assume 59% inbound/41% outbound

Note: Nom. = Nominal

### 7.1.2 Saturday Project Trip Generation Summary

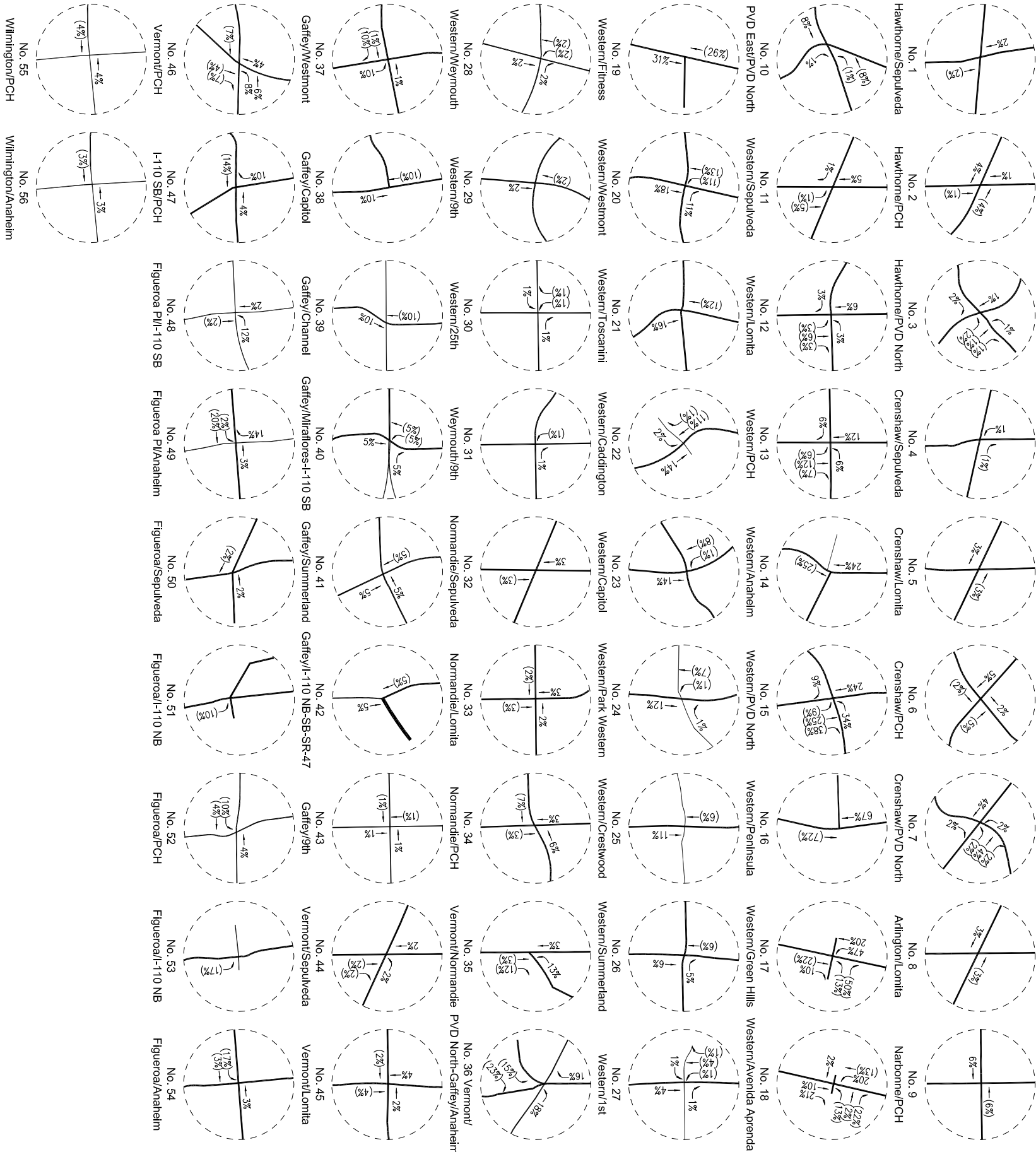
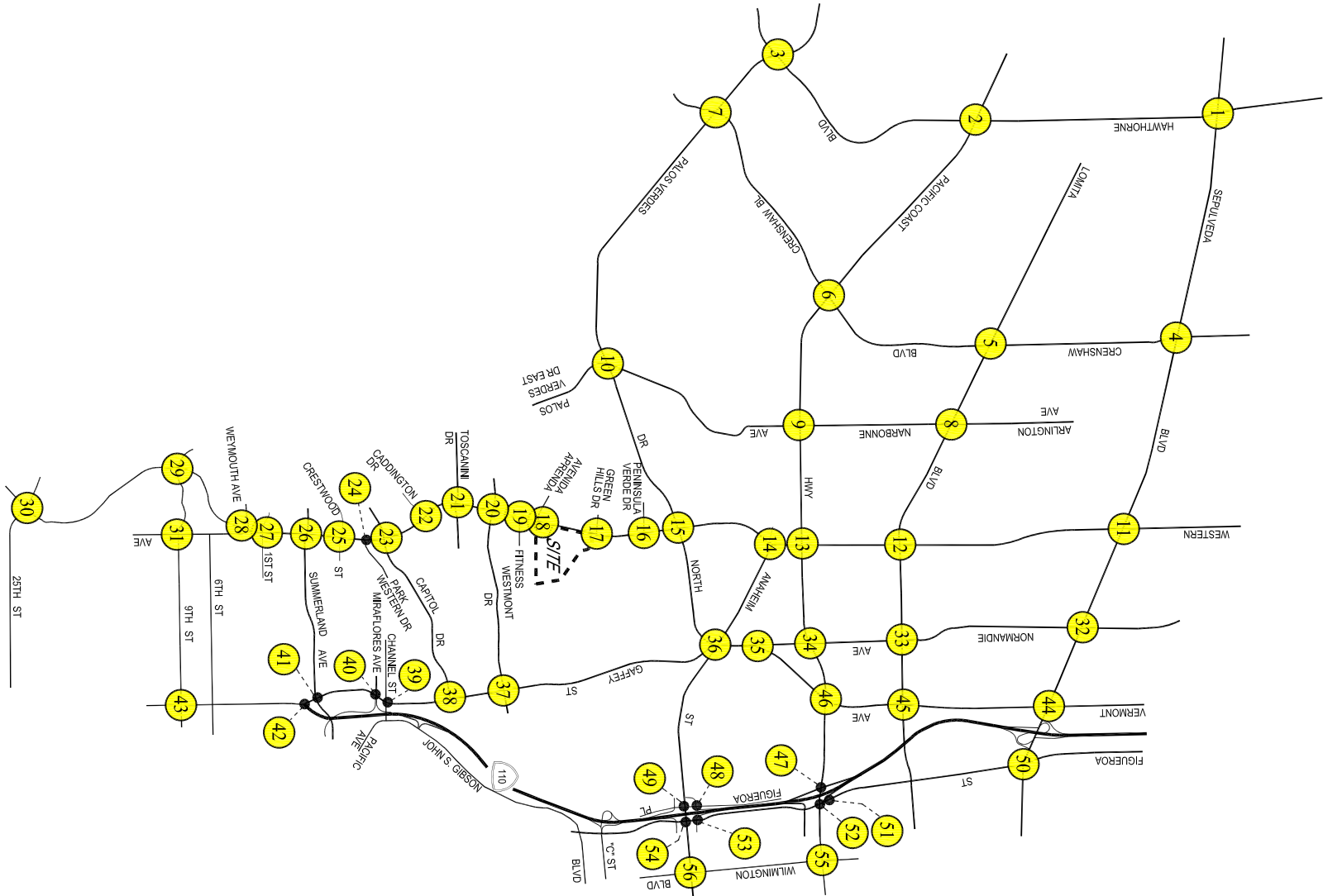
The Saturday trip generation forecast for the proposed project also is summarized in *Table 7-1*. As also summarized in *Table 7-1*, the proposed project is expected to generate 336 inbound trips and 289 outbound trips during the Saturday mid-day peak hour. Over a 24-hour period, the proposed project is forecast to generate 3,691 inbound trips and 3,691 outbound trips.

## 7.2 Project Trip Distribution

Project generated traffic was assigned to the local roadway system based on a trip distribution pattern developed in consultation with LADOT staff. The traffic distribution pattern was based on the proposed project land uses, the existing and planned project site access schemes, existing traffic patterns, characteristics of the surrounding roadway system, and nearby population and employment centers. In addition, the trip distribution patterns developed from regional traffic models and documented in the Metropolitan Transportation Authority, *2010 Congestion Management Program for Los Angeles County*, October 2010, were also considered. The trip distribution pattern developed for the proposed project was reviewed and approved by LADOT.

In addition to the distribution and assignment of trips expected to be generated by the proposed project, the existing traffic volumes associated with Mary Star High School were redistributed to account for the planned access scheme. As previously discussed (refer to Subsection 2.4), parents and students presently access (i.e., ingress only) the Mary Star High School campus through the project site via the existing traffic signal controlled Western Avenue intersection at Green Hills Drive. Vehicular access to the Mary Star High School campus through the project site via the Western Avenue intersection at Avenida Aprenda is planned as part of the proposed project as a public benefit. Parents and students will access (i.e., ingress only) the campus via the Western Avenue/Avenida Aprenda intersection and continue to exit the campus via Taper Avenue. Accordingly, the localized inbound trips associated with Mary Star High School were redistributed to the Avenida Aprenda intersection and are included in project traffic volumes.

The project traffic volume distribution percentages at the 56 study intersections are illustrated in **Figure 7-1**. The forecast project traffic volumes at the study intersections for the AM and PM peak hours are displayed in **Figures 7-2** and **7-3**, respectively. The forecast project traffic volumes at the study intersections for the Saturday mid-day peak hour are displayed in **Figure 7-4**. The redistributed trips associated with Mary Star High School at the study intersections along Western Avenue for the weekday AM and PM peak hours also are displayed in **Figures 7-2** and **7-3**, respectively.



XX = INBOUND PERCENTAGES  
(XX) = OUTBOUND PERCENTAGES



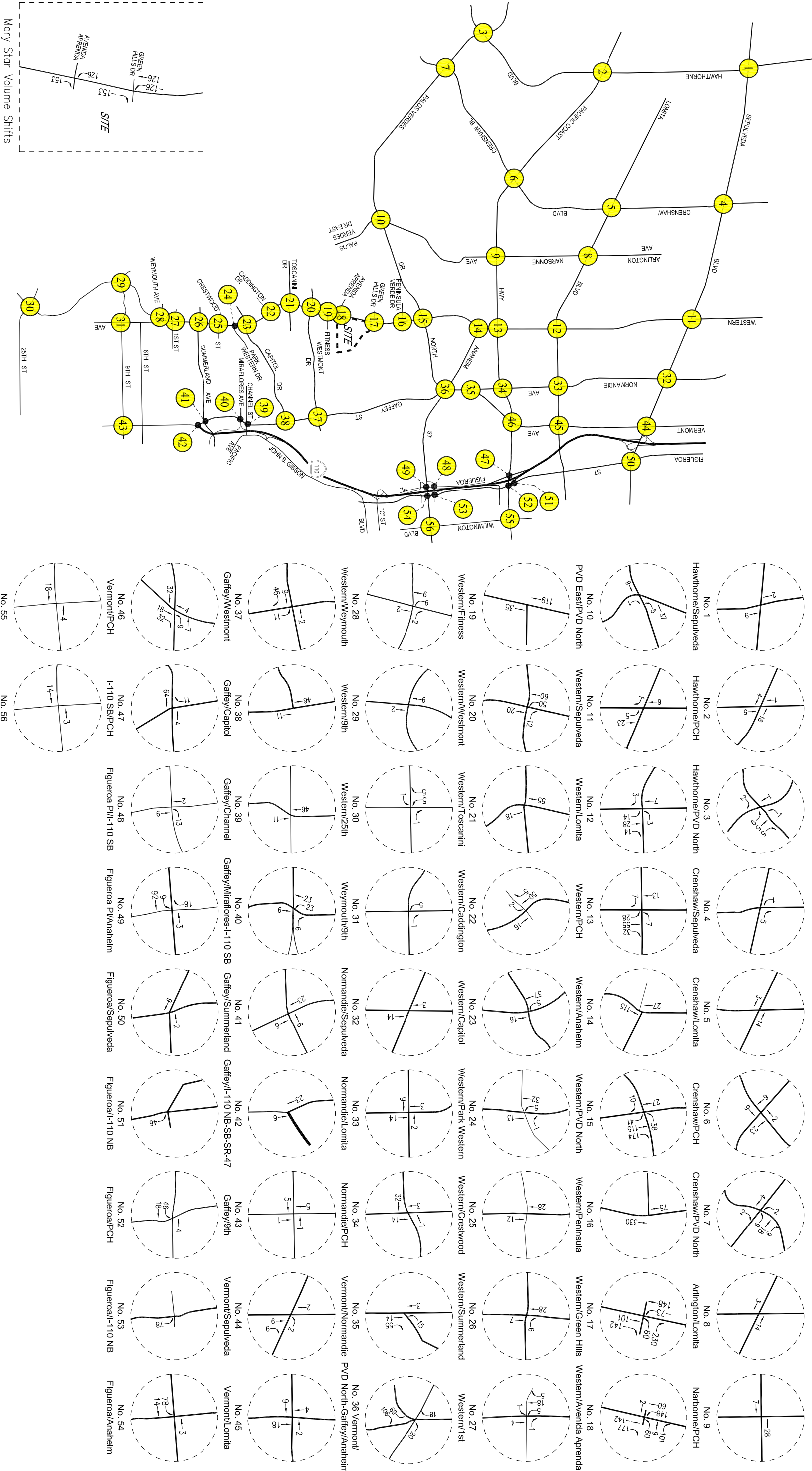
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FIGURE 7-1  
PROJECT TRIP DISTRIBUTION

PONTE VISTA AT SAN PEDRO PROJECT





Mary Star Volume Shifts



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FIGURE 7-2

PROJECT TRAFFIC VOLUMES  
WEEKDAY AM PEAK HOUR  
PONTE VISTA AT SAN PEDRO PROJECT

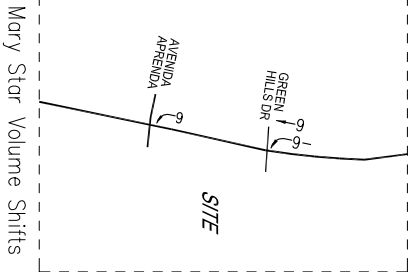
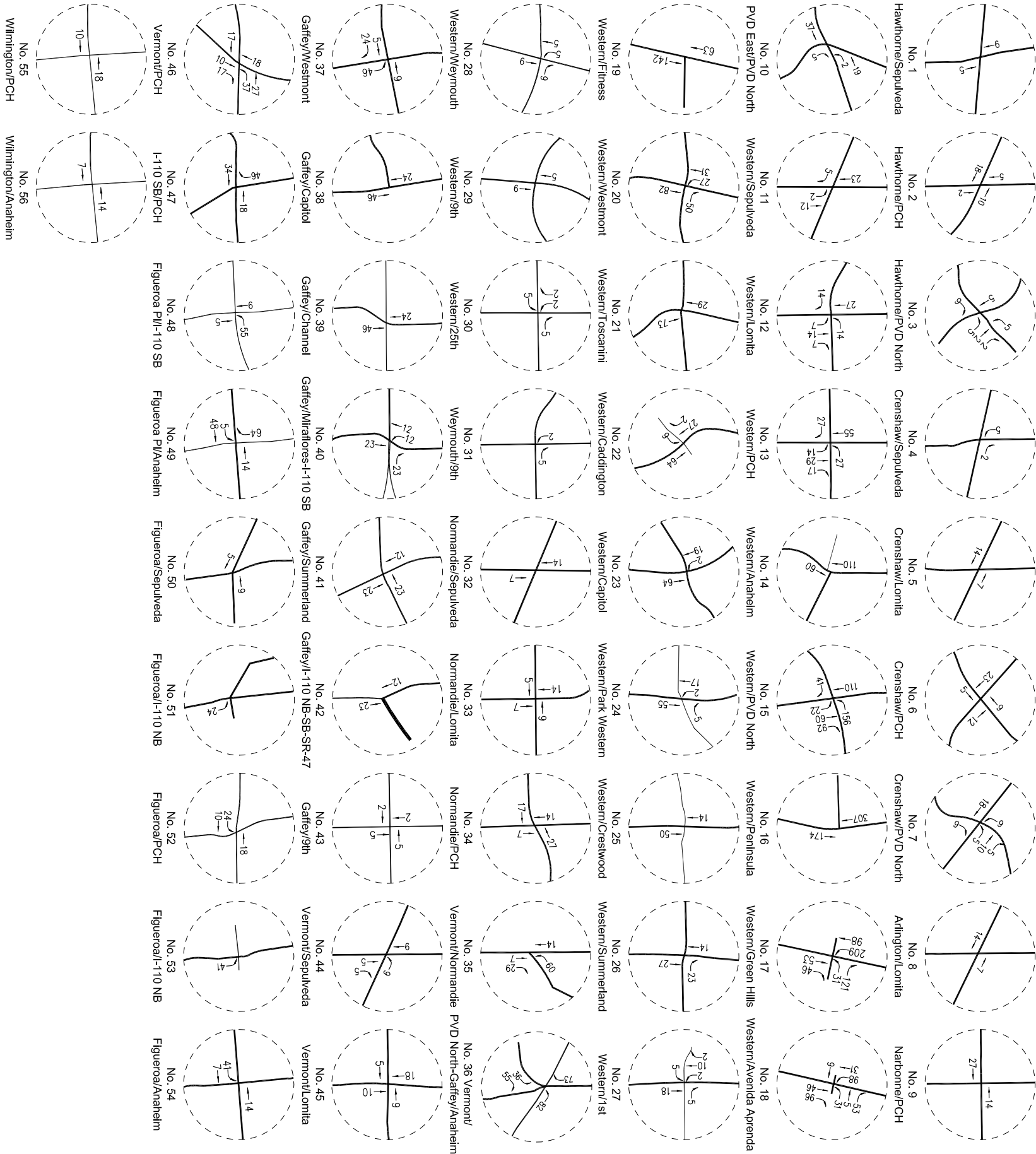
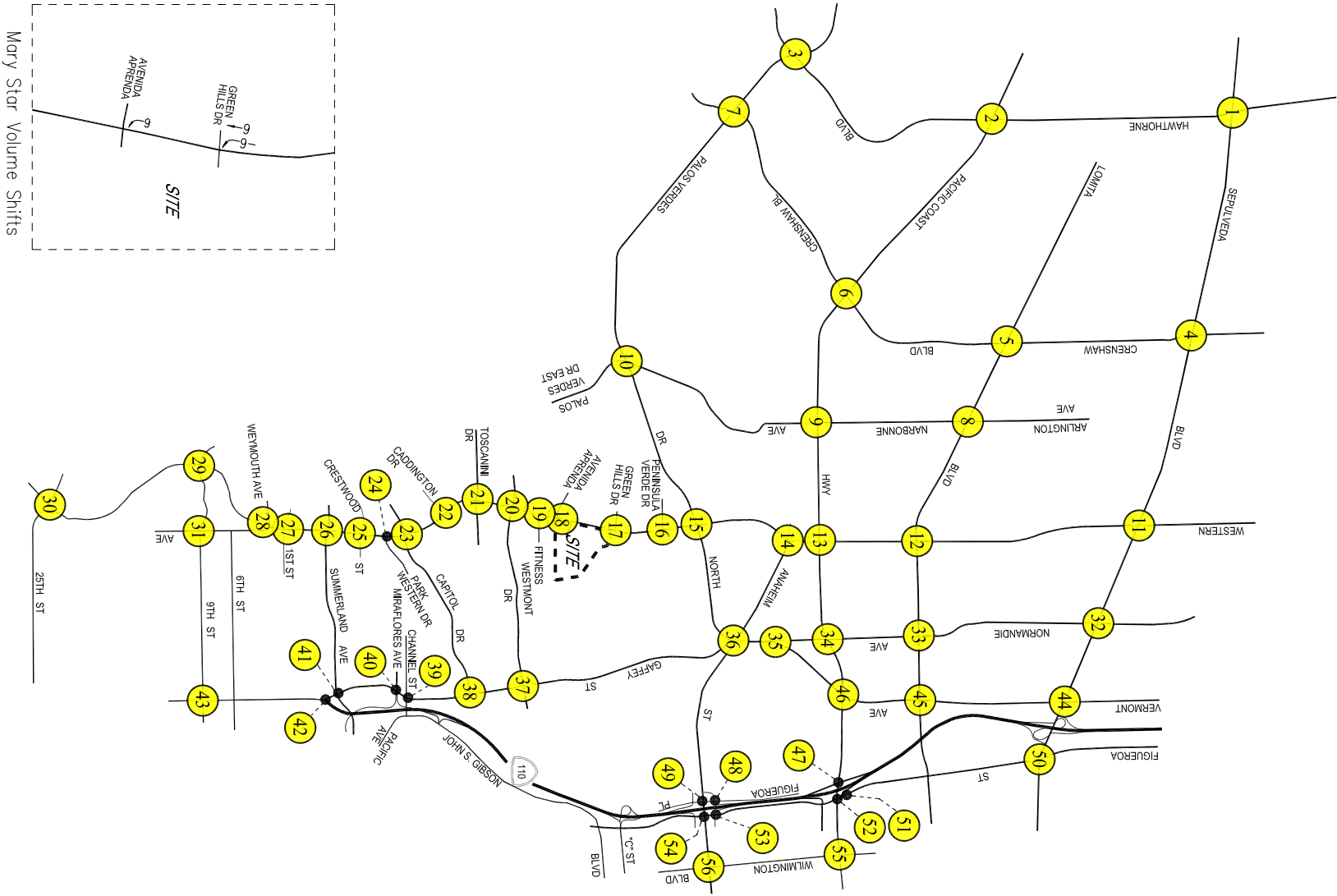
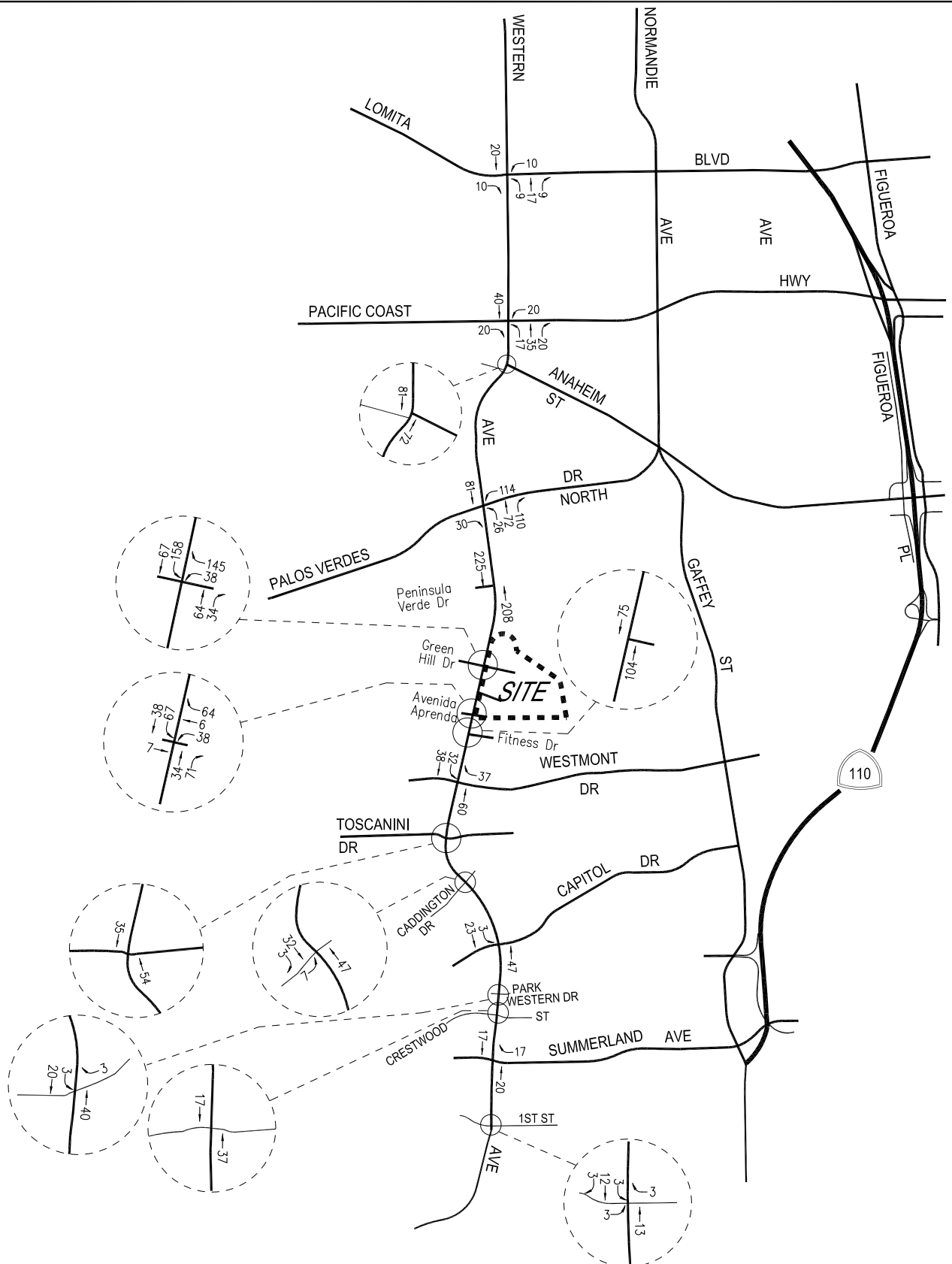


FIGURE 7-3

PROJECT TRAFFIC VOLUMES  
WEEKDAY PM PEAK HOUR  
PONTE VISTA AT SAN PEDRO PROJECT

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**FIGURE 7-4**  
**PROJECT TRAFFIC VOLUMES**  
**SATURDAY MID-DAY PEAK HOUR**  
**PONTE VISTA AT SAN PEDRO PROJECT**

## 8.0 TRAFFIC IMPACT ANALYSIS METHODOLOGY

The 56 study intersections were evaluated using the Critical Movement Analysis (CMA) method of analysis that determines Volume-to-Capacity (v/c) ratios on a critical lane basis. The CMA method is required for use by LADOT in the City of Los Angeles traffic study guidelines. Twenty-eight (28) of the 56 study intersections either have shared jurisdiction between the City of Los Angeles and other neighboring jurisdictions, or are located in city or unincorporated county boundaries adjacent to the City of Los Angeles.

In addition to the traffic analysis using LADOT CMA methodology, further traffic analyses were prepared using the Intersection Capacity Utilization (ICU) method for those study intersections located in jurisdictions other than the City of Los Angeles. Specifically, the ICU method was used to determine Volume-to-Capacity ratios and corresponding Levels of Service at the 28 study intersections located outside of the City of Los Angeles as the ICU method is used to for traffic analysis purposes in these neighboring jurisdictions. The ICU calculations use a lane capacity of 1,600 vehicles per hour (vph) for left-turn, through, and right-turn lanes, and dual left-turn capacity of 2,880 vph. A clearance adjustment factor of 0.10 was added to each Level of Service calculation. For both the CMA and ICU methodologies, the overall intersection v/c ratio is subsequently assigned a Level of Service (LOS) value to describe intersection operations. The six qualitative categories of Level of Service have been defined along with the corresponding CMA or ICU value range and are shown in **Table 8-1**. A description of the CMA method and corresponding Level of Service is provided in **Appendices B** and **C**.

TABLE 8-1  
LEVEL OF SERVICE CRITERIA FOR SIGNALIZED INTERSECTIONS

Level of Service (LOS)	Intersection Capacity Utilization Value (V/C)	Level of Service Description
A	$\leq 0.600$	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 utilized; 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 – 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. Potentially very long delays with continuously increasing queue lengths.

For unsignalized study intersections located in the City of Rancho Palos Verdes, the *Highway Capacity Manual 2000*<sup>6</sup> (HCM2000) unsignalized methodology for stop-controlled intersections was utilized. This methodology estimates the average control delay for each of the subject movements and determines the level of service for each constrained movement. Average control delay for any particular movement is a function of the capacity of the approach and the degree of saturation. The overall average control delay is measured in seconds per vehicle, and the level of service is then calculated for the entire intersection for a four-way stop controlled intersection. For a two-way stop controlled intersection, it should be noted that although the HCM2000 provides a procedure to calculate a value to reflect the intersection average control delay, it does not define a level of service for the intersection as a whole. Rather, the control delay and level of service for the most constrained approach are calculated and are reported for the two-way stop controlled intersections. The six qualitative categories of Level of Service have been defined along with the corresponding HCM control delay value range, as shown in **Table 8-2**.

TABLE 8-2  
LEVEL OF SERVICE CRITERIA FOR UNSIGNALIZED INTERSECTIONS<sup>7</sup>

Level of Service (LOS)	Highway Capacity Manual Delay Value (sec/veh)	Level of Service Description
A	≤ 10.0	Little or no delay
B	> 10.0 and ≤ 15.0	Short traffic delays
C	> 15.0 and ≤ 25.0	Average traffic delays
D	> 25.0 and ≤ 35.0	Long traffic delays
E	> 35.0 and ≤ 50.0	Very long traffic delays
F	> 50.0	Severe congestion

## 8.1 ATSAC/ATCS

The City of Los Angeles Automated Traffic Surveillance and Control (ATSAC) and Adaptive Traffic Control System (ATCS) provides computer control of traffic signals allowing automatic adjustment of signal timing plans to reflect changing traffic conditions, identification of unusual traffic conditions caused by accidents, the ability to centrally implement special purpose short term traffic timing changes in response to incidents, and the ability to quickly identify signal equipment malfunctions. ATCS provides real time control of traffic signals and includes additional loop detectors, closed-circuit television, an upgrade in the communications links and a new generation of traffic control software. LADOT estimates that the ATSAC system reduces the critical  $v/c$  ratios by seven percent (0.07). The ATCS system upgrade further reduces the critical  $v/c$  ratios by three percent (0.03) for a total of 10 percent (0.10). Caltrans estimates that a traffic signal synchronization system reduces the critical  $v/c$  ratios by 12 percent, as stated in their report to the Western Avenue Task Force.

<sup>6</sup> Source: *Highway Capacity Manual 2000*, Transportation Research Board, 2000 (HCM2000).

<sup>7</sup> Source: HCM2000.

Per LADOT<sup>8</sup> the San Pedro ATSAC/ATCS system became operational in the first quarter of 2011. Accordingly, ATSAC/ATCS in the San Pedro area has been assumed in the year 2012 near-terms condition of the traffic study. Funding for the Wilmington ATSAC/ATCS system has been secured from the State of California, with construction commencing in year 2011. Thus, the Wilmington ATSAC/ATCS system is expected to be fully operational in July 2012. ATSAC/ATCS in both the San Pedro and Wilmington areas is included in the year 2017 pre-project future conditions. In addition, the traffic flow benefits of traffic signal synchronization for intersections on State Highways maintained by Caltrans (e.g., segments of Western Avenue and Pacific Coast Highway) are also included in the existing conditions based on recent implementation of traffic signal synchronization on these roadways.

## 8.2 Summary of Sunnyvale Court Decision

Traffic impact analysis of the proposed project has been prepared to evaluate additional scenarios (i.e., Existing With Project Conditions and Near-Term With Project Conditions) based on a recent California Court of Appeal decision.<sup>9</sup> These analysis scenarios currently are not included in the City of Los Angeles traffic study guidelines. However, LADOT staff has indicated that the City's guidelines will be amended to address the *Sunnyvale West Neighborhood Assn.* decision (the "Sunnyvale decision"), and has provided interim guidance directing that traffic studies comply with the Sunnyvale decision.

LADOT traffic study methodology (which is the methodology used by most jurisdictions in Southern California) requires that a development project's potential traffic impacts be measured in a future baseline generally corresponding to the year of build-out for the proposed project. The future pre-project baseline would usually be derived through an additive calculation of: 1) existing traffic volumes; 2) additional traffic due to ambient traffic (usually calculated based on an annual percentage growth of the existing traffic extending to the year of project build-out); and 3) the forecast traffic due to known related development projects in the area that could contribute future traffic to the analyzed study intersections.

The Sunnyvale decision, however, requires that traffic impacts due to a development project be measured based on existing conditions. For example, in the Sunnyvale decision, a section from the CEQA Guidelines is reiterated:

"In assessing the impact of a proposed project on the environment, the lead agency should normally limit its examination to changes in the existing physical conditions in the affected area as they exist at the time the notice of preparation is published, or where no notice of preparation is published, at the time environmental analysis is commenced."

Also, the Sunnyvale decision provides some consideration for the assessment of project impacts at the date of expected project approval:

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<sup>8</sup> Email correspondence from Jim Williams, LADOT ATSAC Operations Division, May 4, 2011.

<sup>9</sup> *Sunnyvale West Neighborhood Assn. v. City of Sunnyvale*, 190 Cal.App.4<sup>th</sup> 1351 (2010).

“Where environmental conditions are expected to change quickly during the period of environmental review for reasons other than the proposed project, project effects might reasonably be compared to predicted conditions at the expected date of approval, rather than to conditions at the time analysis is begun.”

To comply with the Sunnyvale decision, this traffic analysis has been prepared to provide the following additional scenarios to evaluate potential project-related traffic impacts:

- An Existing + Project analysis scenario whereby “Existing” is defined by the traffic counts taken at the study intersections in September and October 2010, which correlates to the Notice of Preparation issued for the project in October 2010. The Existing pre-project condition comprises only the existing traffic counts (i.e., no assumed background growth), as well as the travel lane and traffic signal operations as they existed at the study intersections when the traffic counts were conducted. Also, as previously noted, the traffic benefits of the synchronized ATSAC/ATCS traffic signal system in San Pedro and Wilmington have not been included in the existing condition of the traffic study.
- A Near-Term + Project analysis scenario to the year 2012, which is the expected year of project approval. As previously stated, the Sunnyvale decision does allow for assessment of project impacts at the expected date of project approval based on expected changes in the environment. For this analysis, such changes include additional traffic growth due to related projects currently under construction, as well as traffic improvements that will be completed prior to project approval (i.e., the San Pedro ATSAC/ATCS system which became operational in year 2011). The Near-Term pre-project condition analysis includes the existing traffic counts, ambient growth traffic to the year 2012, traffic from related projects currently under construction that could reasonably contribute traffic to the study intersections, as well as area traffic improvements, such as ATSAC/ATCS, which are expected to be implemented by 2012. As previously noted, the traffic benefits of the synchronized ATSAC/ATCS traffic signal system in San Pedro have been assumed in the year 2012 Near-Term condition of the traffic study. In addition, the traffic benefits of the synchronized ATSAC/ATCS traffic signal system in Wilmington have not been included in the year 2012 Near-Term condition of the traffic study.

The traffic analysis evaluates the potential traffic impacts of the project in both the Existing + Project and Near-Term + Project conditions. This evaluation has been conducted to confirm that the recommended mitigation measures herein would be sufficient in terms of alleviating the traffic impacts identified in conjunction with the traffic analysis of the Existing + Project and Near-Term + Project conditions.

### 8.3 Impact Criteria and Thresholds

The relative impact of the added project traffic volumes to be generated by the proposed project was evaluated based on analysis of future operating conditions at the study intersections without and with the proposed project. The previously discussed capacity analysis procedures were



utilized to evaluate the future  $v/c$  relationships and service level characteristics at each study intersection.

Each study intersection was evaluated for potential traffic impacts using the LADOT significant traffic impact thresholds. Additionally, each intersection outside the City of Los Angeles was evaluated on a supplementary basis using the significant traffic impact criteria utilized in the jurisdiction of the intersection (e.g., intersections in Rancho Palos Verdes were evaluated for potential traffic impacts using the criteria of the Lead Agency, the City of Los Angeles, as well as the City of Rancho Palos Verdes).

### 8.3.1 City of Los Angeles Impact Criteria

The significance of the potential impacts of project generated traffic at the 56 existing study intersections was identified using criteria set forth in the LADOT's *Traffic Study Policies and Procedures*, March, 2002<sup>10</sup>. According to the City's Sliding Scale Method for calculating the level of impact due to traffic generated by the proposed project, a significant transportation impact is determined based on the sliding scale criteria presented in **Table 8-3**.

<b>Table 8-3</b>		
<b>CITY OF LOS ANGELES</b>		
<b>INTERSECTION IMPACT THRESHOLD CRITERIA</b>		
<b>Final <math>v/c</math></b>	<b>Level of Service</b>	<b>Project Related Increase in <math>v/c</math></b>
> 0.700 - 0.800	C	equal to or greater than 0.040
> 0.800 - 0.900	D	equal to or greater than 0.020
>0.900	E or F	equal to or greater than 0.010

The City's Sliding Scale Method requires mitigation of project traffic impacts whenever traffic generated by the proposed development causes an increase of the analyzed intersection  $v/c$  ratio by an amount equal to or greater than the values shown above.

### 8.3.2 City of Torrance Impact Criteria

The relative impact of the added project traffic volumes generated by the proposed project during the AM and PM peak hours was evaluated based on analysis of existing and future operating conditions at the six study intersections in the City of Torrance, without and with the proposed project. The previously discussed ICU capacity analysis procedures were utilized to investigate the future volume-to-capacity relationships and service level characteristics at each study intersection. The significance of the potential impacts of the project at each key intersection was then evaluated using the City of Torrance LOS standards and traffic impact criteria.

<sup>10</sup> *Traffic Study Policies and Procedures*, City of Los Angeles Department of Transportation, March 2002. It is noted subsequent to the execution of the Ponte Vista traffic study Memorandum of Understanding, LADOT adopted updated traffic study guidelines (August 2011). Additionally, it is noted that the results of this traffic analysis would not be changed by application of the 2011 traffic study guidelines.

Impacts to local and regional transportation systems are considered significant if:

- An undesirable peak hour Level of Service (LOS) (i.e. LOS E or F) at any of the key intersections is projected. The City of Torrance considers LOS D (ICU = 0.801 - 0.900) to be the minimum desirable LOS for all intersections. For the City of Torrance, the current LOS, if worse than LOS D (i.e. LOS E or F), should also be maintained; and
- The project increases traffic demand at the key signalized study intersection by 2% of capacity (ICU increase  $\geq 0.020$ ), causing or worsening LOS E or F (ICU  $> 0.901$ ).

### 8.3.3 *Cities of Lomita and Carson Impact Criteria*

The relative impact of the added project traffic volumes generated by the proposed project during the AM and PM peak hours was evaluated based on analysis of existing and future operating conditions at three study intersections in the City of Lomita and one intersection in the City of Carson, without and with the proposed project. The previously discussed ICU capacity analysis procedures were utilized to investigate the future volume-to-capacity relationships and service level characteristics at each study intersection. The significance of the potential impacts of the project at each key intersection was then evaluated using the Los Angeles County Congestion Management Program (CMP) traffic impact assessment (TIA) criteria.

The CMP TIA criteria indicates that a significant impact occurs when the proposed project's traffic increases demand by two percent of capacity (i.e.,  $v/c$  increase  $>$  or equal to 0.02), causing the location to operate at LOS F ( $v/c > 1.000$ ). Under CMP TIA criteria, a project would not have a significant impact if the analyzed location is operating at LOS E or better after the addition of project traffic.

### 8.3.4 *City of Rancho Palos Verdes Impact Criteria*

The relative impact of the added project traffic volumes generated by the proposed project during the AM and PM peak hours was evaluated based on analysis of existing and future operating conditions at the 10 study intersections in the City of Rancho Palos Verdes, without and with the proposed project. The previously discussed ICU capacity analysis procedures were utilized to investigate the future volume-to-capacity relationships and service level characteristics at each study intersection.

The City of Rancho Palos Verdes utilizes the County of Los Angeles traffic thresholds of significance for signalized intersections. The significance of the potential project generated traffic impacts at the signalized intersections was identified using criteria set forth in the Los Angeles County Department of Public Works' *Traffic Impact Analysis Report Guidelines*<sup>11</sup>. According to the County's published guidelines, the impact is considered significant if the project-related increase in the  $v/c$  ratio equals or exceeds the thresholds presented in **Table 8-4**. The City of Rancho Palos Verdes considers LOS D (ICU = 0.801 – 0.900) to be the minimum acceptable LOS for all intersections.

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<sup>11</sup> *Los Angeles County Traffic Impact Analysis Report Guidelines*, Los Angeles County Department of Public Works, January 1, 1997.

<b>Table 8-4</b>		
<b>CITY OF RANCHO PALOS VERDES</b>		
<b>SIGNALIZED INTERSECTION IMPACT THRESHOLD CRITERIA</b>		
<b>Final v/c</b>	<b>Level of Service</b>	<b>Project Related Increase in v/c</b>
> 0.700 - 0.800	C	equal to or greater than 0.040
> 0.800 - 0.900	D	equal to or greater than 0.020
>0.900	E or F	equal to or greater than 0.010

As indicated in *Table 8-4*, the project-related increase in ICU value for the signalized intersections that defines a significant impact varies with LOS. At LOS C or D the threshold of significance is an increase of 0.04 or greater and 0.02 or greater, respectively, in the ICU value for signalized intersections. This is reduced to 0.01 or greater under LOS E and F.

The City of Rancho Palos Verdes has established the following thresholds of significance for unsignalized intersections:

- A significant impact would occur at an unsignalized intersection when the addition of project-generated trips causes the peak hour level of service of the intersection to change from acceptable operation (LOS D or better) to deficient operation (LOS E or F); or
- A significant impact would occur at an unsignalized intersection if the peak hour level of service of the intersection is LOS E or F and the addition of project-generated trips changes the delay by 2.0 seconds or more.

### 8.3.5 *City Rolling Hills Estates Impact Criteria*

The relative impact of the added project traffic volumes generated by the proposed project during the AM and PM peak hours was evaluated based on analysis of existing and future operating conditions at three study intersections in the City of Rolling Hills Estates, without and with the proposed project. The previously discussed ICU capacity analysis procedures were utilized to investigate the future volume-to-capacity relationships and service level characteristics at each study intersection. The significance of the potential impacts of the project at each key intersection was then evaluated using the City of Rolling Hills Estates traffic impact criteria.

The City of Rolling Hills Estates traffic impact criteria indicates that a significant impact occurs when the addition of the proposed project results in a change in LOS from C to D, or D to E. A significant impact also occurs when the addition of the proposed project results in a LOS C or D and the increase in  $v/c$  is greater than 0.02. In addition, a significant impact occurs when the addition of the proposed project results in a LOS E or F and the increase in  $v/c$  is greater than 0.01.

### 8.3.6 County of Los Angeles Impact Criteria

The significance of the potential impacts of project generated traffic at the four study intersections within unincorporated Los Angeles County was identified using criteria set forth in the County of Los Angeles' *Traffic Impact Analysis Report Guidelines*, January 1, 1997. According to the County's Sliding Scale Method for calculating the level of impact due to traffic generated by the proposed project, a significant transportation impact is determined based on the sliding scale criteria presented in **Table 8-5**.

<b>Table 8-5</b>		
<b>COUNTY OF LOS ANGELES</b>		
<b>INTERSECTION IMPACT THRESHOLD CRITERIA</b>		
<b>Final <math>v/c</math></b>	<b>Level of Service</b>	<b>Project Related Increase in <math>v/c</math></b>
> 0.700 - 0.800	C	equal to or greater than 0.040
> 0.800 - 0.900	D	equal to or greater than 0.020
>0.900	E or F	equal to or greater than 0.010

The County's Sliding Scale Method requires mitigation of project traffic impacts whenever traffic generated by the proposed development causes an increase of the analyzed intersection  $v/c$  ratio by an amount equal to or greater than the values shown above.

## 8.4 Traffic Impact Analysis Scenarios

### 8.4.1 City of Los Angeles Traffic Impact Scenarios

Based on City of Los Angeles traffic study guidelines and the recent Sunnyvale decision, Level of Service calculations at the study intersections were analyzed for the following impact analysis conditions:

- Existing and Near-Term Year 2012 Conditions
  - (a) Existing conditions.
  - (b) Condition (a) plus completion and occupancy of the Ponte Vista at San Pedro project (including the relocation of the Mary Star High School access point).
  - (c) Condition (b) with implementation of project mitigation measures where necessary

- (d) Condition (a) plus one percent (1.0%) ambient traffic growth through year 2012 (i.e., the expected year of project approval) plus completion and occupancy of near-term related projects (i.e., those developments that are currently under construction and expected to be completed in year 2012).
  - (e) Condition (d) plus completion and occupancy of the Ponte Vista at San Pedro project (including the relocation of the Mary Star High School access point).
  - (f) Condition (e) with implementation of project mitigation measures where necessary.
- Future Year 2017 Pre-Project and With Project Conditions
    - (a) Existing conditions.
    - (b) Condition (a) plus one percent (1.0%) ambient traffic growth through year 2017.
    - (c) Condition (b) plus completion and occupancy of the related projects.
    - (d) Condition (c) plus completion and occupancy of the Ponte Vista at San Pedro project (including the relocation of the Mary Star High School access point).
    - (e) Condition (d) with implementation of project mitigation measures where necessary.

The traffic volumes for each new condition were added to the volumes in the prior condition to determine the change in capacity utilization at the study intersections.

#### **8.4.2 *Cities of Torrance, Lomita, Rancho Palos Verdes, and Carson Traffic Impact Scenarios***

Based on respective jurisdiction traffic study guidelines and the recent Sunnyvale decision, Level of Service calculations at the study intersections located within the cities of Torrance, Lomita, Rancho Palos Verdes, and Carson were analyzed for the following impact analysis conditions:

- Existing and Near-Term Year 2012 Conditions
  - (a) Existing conditions.
  - (b) Condition (a) plus completion and occupancy of the Ponte Vista at San Pedro project (including the relocation of the Mary Star High School access point).
  - (c) Condition (b) with implementation of project mitigation measures where necessary
  - (d) Condition (a) plus one percent (1.0%) ambient traffic growth through year 2012 (i.e., the expected year of project approval) plus completion and occupancy of near-term related projects (i.e., those developments that are currently under construction and expected to be completed in year 2012).

- (e) Condition (d) plus completion and occupancy of the Ponte Vista at San Pedro project (including the relocation of the Mary Star High School access point).
- (f) Condition (e) with implementation of project mitigation measures where necessary.
- Future Year 2017 Pre-Project and With Project Conditions
  - (a) Existing conditions.
  - (b) Condition (a) plus one percent (1.0%) ambient traffic growth through year 2017.
  - (c) Condition (b) plus completion and occupancy of the related projects.
  - (d) Condition (c) plus completion and occupancy of the Ponte Vista at San Pedro project (including the relocation of the Mary Star High School access point).
  - (e) Condition (d) with implementation of project mitigation measures where necessary.

The traffic volumes for each new condition were added to the volumes in the prior condition to determine the change in capacity utilization at the study intersections.

#### 8.4.3 *City of Rolling Hills Estates Traffic Impact Analysis Scenarios*

Based on Rolling Hills Estates traffic study guidelines and the recent Sunnyvale decision, Level of Service calculations at the study intersections located within the City of Rolling Hills Estates were analyzed for the following impact analysis conditions:

- Existing and Near-Term Year 2012 Conditions
  - (a) Existing conditions.
  - (b) Condition (a) plus completion and occupancy of the Ponte Vista at San Pedro project (including the relocation of the Mary Star High School access point).
  - (c) Condition (b) with implementation of project mitigation measures where necessary
  - (d) Condition (a) plus one percent (1.0%) ambient traffic growth through year 2012 (i.e., the expected year of project approval) plus completion and occupancy of near-term related projects (i.e., those developments that are currently under construction and expected to be completed in year 2012).
  - (e) Condition (d) plus completion and occupancy of the Ponte Vista at San Pedro project (including the relocation of the Mary Star High School access point).
  - (f) Condition (e) with implementation of project mitigation measures where necessary.

- Future Year 2017 Pre-Project and With Project Conditions

- (a) Existing conditions.
- (b) Existing conditions with completion and occupancy of the Ponte Vista at San Pedro project.
- (c) Condition (b) with implementation of project mitigation measures where necessary.
- (d) Existing conditions (a) plus one percent (1.0%) ambient traffic growth through year 2017 plus the completion and occupancy of the related projects.
- (e) Condition (d) with completion and occupancy of the Ponte Vista at San Pedro project (including the relocation of the Mary Star High School access point).
- (f) Condition (e) with implementation of project mitigation measures where necessary.

#### 8.4.4 *County of Los Angeles Traffic Impact Analysis Scenarios*

Based on Los Angeles County traffic study guidelines and the recent Sunnyvale decision, Level of Service calculations at the study intersections located within the unincorporated Los Angeles County were analyzed for the following impact analysis conditions:

- Existing and Near-Term Year 2012 Conditions

- (a) Existing conditions.
- (b) Condition (a) plus completion and occupancy of the Ponte Vista at San Pedro project (including the relocation of the Mary Star High School access point).
- (c) Condition (b) with implementation of project mitigation measures where necessary
- (d) Condition (a) plus one percent (1.0%) ambient traffic growth through year 2012 (i.e., the expected year of project approval) plus completion and occupancy of near-term related projects (i.e., those developments that are currently under construction and expected to be completed in year 2012).
- (e) Condition (d) plus completion and occupancy of the Ponte Vista at San Pedro project (including the relocation of the Mary Star High School access point).
- (f) Condition (e) with implementation of project mitigation measures where necessary.



- Future Year 2017 Pre-Project and With Project Conditions

- (a) Existing conditions.
- (b) Condition (a) plus 1.0% annual growth in ambient traffic through year 2017.
- (c) Condition (b) with completion and occupancy of the Ponte Vista at San Pedro project (including the relocation of the Mary Star High School access point).
- (d) Condition (c) with implementation of project mitigation measures where necessary.
- (e) Condition (d) with completion and occupancy of the related projects.
- (f) Condition (e) with implementation of cumulative mitigation measures where necessary.

## 9.0 CITY OF LOS ANGELES TRAFFIC ANALYSIS

The Existing and Near-Term conditions traffic impact analysis prepared for the 56 study intersections using the LADOT CMA methodology and application of the City of Los Angeles significant traffic impact criteria is summarized in **Table 9-1**. The Existing and Near-Term conditions CMA data worksheets for the analyzed intersections are contained in *Appendix B*. The Future conditions traffic impact analysis prepared for the 56 study intersections using the LADOT CMA methodology and application of the City of Los Angeles significant traffic impact criteria is summarized in **Table 9-2**. The Future conditions CMA data worksheets for the analyzed intersections are contained in *Appendix C*.

### 9.1 Existing Conditions

#### 9.1.1 Existing Conditions

As indicated in column [1] of *Table 9-1*, 37 of the 56 study intersections are operating at LOS D or better during the weekday AM peak hour, weekday PM peak hour and/or the Saturday mid-day peak hour under existing conditions. The remaining study intersections are operating at LOS E or worse during the weekday AM peak hour, weekday PM peak hour and/or the Saturday mid-day peak hour. As previously mentioned, the existing traffic volumes at the study intersections during the weekday AM peak hour, weekday PM peak hour and Saturday mid-day peak hour are provided in *Figures 5-1, 5-2 and 5-3*, respectively.

#### 9.1.2 Existing With Project Conditions

As shown in column [2] of *Table 9-1*, application of the City's threshold criteria to the "Existing With Project" scenario indicates that the proposed project is expected to create a significant impact at 16 of the 56 study intersections during the weekday AM peak hour, weekday PM peak hour and/or the Saturday mid-day peak hour. Incremental but not significant impacts are noted at the remaining study intersections. The existing with project (existing plus project) traffic volumes at the study intersections during the weekday AM peak hour, weekday PM peak hour and Saturday mid-day peak hour are provided in **Figures 9-1, 9-2 and 9-3**, respectively.

### 9.2 Near-Term Conditions

#### 9.2.1 Near-Term Cumulative Baseline Conditions

The near-term year 2012 cumulative baseline conditions were forecast based on the addition of traffic generated by the plus completion and occupancy of near-term related projects (i.e., those developments that are currently under construction and expected to be completed in year 2012), as well as the growth in traffic due to the combined effects of continuing development, intensification of existing developments and other factors (i.e., ambient growth). The near-term related projects included in this analysis condition are noted in *Table 6-1* (noted as "NT" in the Project Status column). Also, this analysis condition accounts for the implementation of the San Pedro ATSAC/ATCS system at study intersections within the system based on information provided by LADOT (i.e., system capability has been constructed and is fully operational as of the first quarter of year 2011).

Table 9-1  
SUMMARY OF VOLUME TO CAPACITY RATIOS  
AND LEVELS OF SERVICE  
WEEKDAY AM AND PM PEAK HOURS AND SATURDAY PEAK HOUR  
EXISTING AND NEAR-TERM CONDITIONS

NO.	INTERSECTION	PEAK HOUR	[1]		[2]		[3]		[4]		[5]		[6]	
			YEAR 2010 EXISTING V/C	LOS	YEAR 2010 EXISTING W/PROJECT V/C	LOS	CHANGE V/C [3]-[1]	MITL- GATED ---	YEAR 2012 NEAR-TERM BASELINE V/C	LOS	YEAR 2012 NEAR-TERM W/PROJECT V/C	LOS	CHANGE V/C [6]-[4]	MITL- GATED ---
							CHANGE V/C [2]-[1]	IMPACT NO					CHANGE V/C [5]-[4]	IMPACT NO
1	Hawthorne Boulevard/ Sepulveda Boulevard	AM PM	0.769 0.867	C D	0.771 0.868	C D	0.002 0.001	NO NO	0.787 0.889	C D	0.788 0.891	C D	0.001 0.002	NO NO
2	Hawthorne Boulevard/ Pacific Coast Highway	AM PM	0.867 0.816	D D	0.872 0.820	D D	0.005 0.004	NO NO	0.889 0.847	D D	0.895 0.851	D D	0.006 0.004	NO NO
3	Hawthorne Boulevard/ Palos Verdes Drive North	AM PM	0.941 0.847	E D	0.946 0.851	E D	0.005 0.004	NO NO	0.960 0.869	E D	0.965 0.873	E D	0.005 0.004	NO NO
4	Crenshaw Boulevard/ Sepulveda Boulevard	AM PM	0.799 0.932	C E	0.799 0.934	C E	0.000 0.002	NO NO	0.817 0.950	D E	0.817 0.952	D E	0.000 0.002	NO NO
5	Crenshaw Boulevard/ Lomita Boulevard	AM PM	0.850 0.943	D E	0.855 0.945	D E	0.005 0.002	NO NO	0.867 0.962	D E	0.872 0.964	D E	0.005 0.002	NO NO
6	Crenshaw Boulevard/ Pacific Coast Highway	AM PM	0.948 1.026	E F	0.952 1.035	E F	0.004 0.009	NO NO	0.969 1.049	E F	0.973 1.057	E F	0.004 0.008	NO NO
7	Crenshaw Boulevard/ Palos Verdes Drive North	AM PM	0.784 0.814	C D	0.797 0.836	C D	0.013 0.022	YES YES	0.800 0.831	C D	0.813 0.852	D D	0.013 0.021	YES YES
8	Arlington Avenue/ Lomita Boulevard	AM PM	0.893 0.934	D E	0.898 0.939	D E	0.005 0.005	NO NO	0.911 0.955	E E	0.916 0.960	E E	0.005 0.005	NO NO
9	Narbonne Avenue/ Pacific Coast Highway	AM PM	0.799 0.731	C C	0.806 0.735	D C	0.007 0.004	NO NO	0.843 0.767	D C	0.850 0.770	D C	0.007 0.003	NO NO
10	Palos Verdes Drive East/ Palos Verdes Drive North	AM PM	0.747 0.675	C B	0.754 0.683	C B	0.007 0.008	NO NO	0.771 0.700	C B	0.778 0.708	C C	0.007 0.008	NO NO
11	Western Avenue/ Sepulveda Boulevard	AM PM	0.920 1.004	E F	0.925 1.009	E F	0.005 0.005	NO NO	0.938 1.024	E F	0.944 1.032	E F	0.006 0.008	NO NO
12	Western Avenue/ Lomita Boulevard	AM PM SAT	0.971 0.981 0.754	E E C	0.979 1.003 0.765	E F C	-0.075 -0.051 -0.068	YES YES ---	0.995 1.007 0.779	E F C	1.003 1.030 0.790	F F C	0.008 0.023 0.011	YES YES NO

Table 9-1 (Continued)  
SUMMARY OF VOLUME TO CAPACITY RATIOS  
AND LEVELS OF SERVICE  
WEEKDAY AM AND PM PEAK HOURS AND SATURDAY PEAK HOUR  
EXISTING AND NEAR-TERM CONDITIONS

NO.	INTERSECTION	PEAK HOUR	[1]			[2]			[3]			[4]			[5]			[6]				
			YEAR 2010 EXISTING		CHANGE V/C	SIGNIF. IMPACT	YEAR 2010 EXISTING		CHANGE V/C	SIGNIF. IMPACT	YEAR 2010 W/PROJECT		CHANGE V/C	SIGNIF. IMPACT	YEAR 2012 NEAR-TERM BASELINE		CHANGE V/C	SIGNIF. IMPACT	YEAR 2012 W/PROJECT MITIGATION		CHANGE V/C	SIGNIF. IMPACT
			V/C	LOS			V/C	LOS			V/C	LOS			V/C	LOS			V/C	LOS		
13	Western Avenue/ Pacific Coast Highway	AM	0.893	D	0.931	E	0.038	YES	0.873	D	-0.020	YES	0.914	E	0.952	E	0.038	YES	0.893	D	-0.021	YES
		PM	0.851	D	0.903	E	0.052	YES	0.835	D	-0.016	YES	0.887	D	0.938	E	0.051	YES	0.864	D	-0.023	YES
		SAT	0.816	D	0.857	D	0.041	YES	0.829	D	0.013	YES	0.853	D	0.893	D	0.040	YES	0.860	D	0.007	YES
14	Western Avenue/ Anaheim Street	AM	0.641	B	0.681	B	0.040	NO	0.681	B	0.040	---	0.654	B	0.695	B	0.041	NO	0.695	B	0.041	---
		PM	0.520	A	0.542	A	0.022	NO	0.542	A	0.022	---	0.535	A	0.556	A	0.021	NO	0.556	A	0.021	---
		SAT	0.472	A	0.498	A	0.026	NO	0.498	A	0.026	---	0.485	A	0.510	A	0.025	NO	0.510	A	0.025	---
15	Western Avenue/ Palos Verdes Drive North	AM	0.905	E	1.038	F	0.133	YES	0.780	C	-0.125	YES	0.925	E	1.058	F	0.133	YES	0.801	D	-0.124	YES
		PM	0.851	D	1.034	F	0.183	YES	0.839	D	-0.012	YES	0.876	D	1.059	F	0.183	YES	0.861	D	-0.015	YES
		SAT	0.648	B	0.771	C	0.123	YES	0.626	B	-0.022	YES	0.670	B	0.793	C	0.123	YES	0.646	B	-0.024	YES
16	Western Avenue/ Peninsula Verde Drive	AM	0.816	D	0.953	E	0.137	YES	0.663	B	-0.153	YES	0.832	D	0.970	E	0.138	YES	0.676	B	-0.156	YES
		PM	0.705	C	0.833	D	0.128	YES	0.566	A	-0.139	YES	0.719	C	0.847	D	0.128	YES	0.578	A	-0.141	YES
		SAT	0.611	B	0.698	B	0.087	NO	0.458	A	-0.153	---	0.623	B	0.710	C	0.087	YES	0.468	A	-0.155	YES
17	Western Avenue/ Green Hills Drive	AM	0.662	B	0.600	A	-0.062	NO	0.600	A	-0.062	---	0.677	B	0.653	B	-0.024	NO	0.653	B	-0.024	---
		PM	0.469	A	0.523	A	0.054	NO	0.523	A	0.054	---	0.481	A	0.532	A	0.051	NO	0.532	A	0.051	---
		SAT	0.439	A	0.496	A	0.057	NO	0.496	A	0.057	---	0.449	A	0.506	A	0.057	NO	0.506	A	0.057	---
18	Western Avenue/ Avenida Aprenda-South Access	AM	0.759	C	0.722	C	-0.037	NO	0.722	C	-0.037	---	0.776	C	0.695	B	-0.081	NO	0.735	C	-0.041	---
		PM	0.551	A	0.588	A	0.037	NO	0.588	A	0.037	---	0.564	A	0.580	A	0.016	NO	0.601	B	0.037	---
		SAT	0.425	A	0.468	A	0.043	NO	0.468	A	0.043	---	0.436	A	0.453	A	0.017	NO	0.479	A	0.043	---
19	Western Avenue/ Fitness Drive	AM	0.785	C	0.800	C	0.015	NO	0.800	C	0.015	---	0.801	D	0.815	D	0.014	NO	0.815	D	0.014	---
		PM	0.676	B	0.703	C	0.027	NO	0.703	C	0.027	---	0.690	B	0.716	C	0.026	NO	0.716	C	0.026	---
		SAT	0.633	B	0.676	B	0.043	NO	0.676	B	0.043	---	0.646	B	0.689	B	0.043	NO	0.689	B	0.043	---
20	Western Avenue/ Westmont Drive	AM	0.821	D	0.863	D	0.042	YES	0.764	C	-0.057	YES	0.839	D	0.881	D	0.042	YES	0.781	C	-0.058	YES
		PM	0.772	C	0.820	D	0.048	YES	0.729	C	-0.043	YES	0.790	C	0.837	D	0.047	YES	0.745	C	-0.045	YES
		SAT	0.795	C	0.839	D	0.044	YES	0.744	C	-0.051	YES	0.813	D	0.857	D	0.044	YES	0.760	C	-0.053	YES
21	Western Avenue/ Toscanini Drive	AM	0.740	C	0.746	C	0.006	NO	0.746	C	0.006	---	0.757	C	0.763	C	0.006	NO	0.763	C	0.006	---
		PM	0.584	A	0.594	A	0.010	NO	0.594	A	0.010	---	0.597	A	0.607	B	0.010	NO	0.607	B	0.010	---
		SAT	0.564	A	0.582	A	0.018	NO	0.582	A	0.018	---	0.577	A	0.596	A	0.019	NO	0.596	A	0.019	---
22	Western Avenue/ Caddington Drive	AM	0.626	B	0.633	B	0.007	NO	0.633	B	0.007	---	0.641	B	0.648	B	0.007	NO	0.648	B	0.007	---
		PM	0.741	C	0.757	C	0.016	NO	0.757	C	0.016	---	0.758	C	0.774	C	0.016	NO	0.774	C	0.016	---
		SAT	0.652	B	0.669	B	0.017	NO	0.669	B	0.017	---	0.667	B	0.684	B	0.017	NO	0.684	B	0.017	---
23	Western Avenue/ Capitol Drive	AM	0.844	D	0.853	D	0.009	NO	0.853	D	0.009	---	0.862	D	0.872	D	0.010	NO	0.872	D	0.010	---
		PM	0.756	C	0.780	C	0.024	NO	0.780	C	0.024	---	0.774	C	0.797	C	0.023	NO	0.797	C	0.023	---
		SAT	0.845	D	0.863	D	0.018	NO	0.863	D	0.018	---	0.863	D	0.882	D	0.019	NO	0.882	D	0.019	---
24	Western Avenue/ Park Western Drive	AM	0.667	B	0.674	B	0.007	NO	0.674	B	0.007	---	0.682	B	0.690	B	0.008	NO	0.690	B	0.008	---
		PM	0.701	C	0.721	C	0.020	NO	0.721	C	0.020	---	0.717	C	0.737	C	0.020	NO	0.737	C	0.020	---
		SAT	0.656	B	0.672	B	0.016	NO	0.672	B	0.016	---	0.671	B	0.687	B	0.016	NO	0.687	B	0.016	---

Table 9-1 (Continued)  
SUMMARY OF VOLUME TO CAPACITY RATIOS  
AND LEVELS OF SERVICE  
WEEKDAY AM AND PM PEAK HOURS AND SATURDAY PEAK HOUR  
EXISTING AND NEAR-TERM CONDITIONS

NO.	INTERSECTION	PEAK HOUR	[1]		[2]		[3]		[4]		[5]		[6]	
			YEAR 2010 EXISTING V/C	LOS	YEAR 2010 EXISTING W/PROJECT V/C	LOS	CHANGE V/C [(2)-(1)]	MITL- GATED ---	YEAR 2012 NEAR-TERM BASELINE V/C	LOS	YEAR 2012 NEAR-TERM W/PROJECT V/C	LOS	CHANGE V/C [(5)-(4)]	MITL- GATED ---
25	Western Avenue/ Crestwood Street	AM	0.778	C	0.782	C	0.004	---	0.795	C	0.799	C	0.004	---
		PM	0.750	C	0.755	C	0.005	---	0.767	C	0.772	C	0.005	---
		SAT	0.767	C	0.780	C	0.013	---	0.784	C	0.797	C	0.013	---
26	Western Avenue/ Summerland Avenue	AM	0.847	D	0.854	D	0.007	---	0.866	D	0.873	D	0.007	---
		PM	0.701	C	0.728	C	0.027	---	0.717	C	0.744	C	0.027	---
		SAT	0.679	B	0.699	B	0.020	---	0.695	B	0.714	C	0.019	---
27	Western Avenue/ W. 1st Street	AM	0.875	D	0.880	D	0.005	---	0.794	C	0.799	C	0.005	---
		PM	0.917	E	0.921	E	0.004	---	0.835	D	0.839	D	0.004	---
		SAT	0.827	D	0.834	D	0.007	---	0.744	C	0.751	C	0.007	---
28	Western Avenue/ S. Weymouth Avenue	AM	0.752	C	0.759	C	0.007	---	0.669	B	0.676	B	0.007	---
		PM	0.697	B	0.704	C	0.007	---	0.612	B	0.619	B	0.007	---
29	Western Avenue/ W. 9th Street	AM	0.553	A	0.554	A	0.001	---	0.464	A	0.465	A	0.001	---
		PM	0.684	B	0.686	B	0.002	---	0.598	A	0.600	A	0.002	---
30	Western Avenue/ W. 25th Street	AM	0.602	B	0.606	B	0.004	---	0.514	A	0.518	A	0.004	---
		PM	0.575	A	0.579	A	0.004	---	0.487	A	0.490	A	0.003	---
31	Weymouth Avenue/ W. 9th Street	AM	0.615	B	0.619	B	0.004	---	0.566	A	0.570	A	0.004	---
		PM	0.516	A	0.521	A	0.005	---	0.445	A	0.450	A	0.005	---
32	Normandie Avenue/ Sepulveda Boulevard	AM	0.823	D	0.827	D	0.004	---	0.839	D	0.844	D	0.005	---
		PM	0.754	C	0.757	C	0.003	---	0.769	C	0.772	C	0.003	---
33	Normandie Avenue/ Lomita Boulevard	AM	1.021	F	1.023	F	0.002	---	1.042	F	1.044	F	0.002	---
		PM	1.008	F	1.015	F	0.007	---	1.029	F	1.036	F	0.007	---
34	Normandie Avenue/ Pacific Coast Highway	AM	0.782	C	0.790	C	0.008	---	0.839	D	0.841	D	0.002	---
		PM	0.778	C	0.784	C	0.006	---	0.807	D	0.817	D	0.010	---
35	Vermont Avenue/ Normandie Avenue	AM	0.602	B	0.620	B	0.018	---	0.616	B	0.634	B	0.018	---
		PM	0.528	A	0.559	A	0.031	---	0.540	A	0.571	A	0.031	---
36	Vermont Avenue-Palos Verdes Drive North Gaffey Street/Anaheim Street	AM	0.852	D	0.860	D	0.008	---	0.869	D	0.877	D	0.008	---
		PM	0.888	D	0.920	E	-0.009	YES	0.911	E	0.943	E	0.032	YES

Table 9-1 (Continued)  
SUMMARY OF VOLUME TO CAPACITY RATIOS  
AND LEVELS OF SERVICE  
WEEKDAY AM AND PM PEAK HOURS AND SATURDAY PEAK HOUR  
EXISTING AND NEAR-TERM CONDITIONS

NO.	INTERSECTION	PEAK HOUR	[1]		[2]		[3]		[4]		[5]		[6]	
			YEAR 2010 EXISTING V/C	LOS	YEAR 2010 EXISTING W/PROJECT V/C	LOS	CHANGE V/C [(3)-(1)]	MITI- GATED	YEAR 2012 NEAR-TERM BASELINE V/C	LOS	YEAR 2012 NEAR-TERM W/PROJECT V/C	LOS	CHANGE V/C [(5)-(4)]	MITI- GATED
37	Gaffey Street/ Westmont Drive	AM PM	0.662 0.831	B D	0.694 0.877	B D	0.032 0.046	NO YES	0.579 0.750	A C	0.610 0.795	B C	0.031 0.045	NO YES
38	Gaffey Street/ Capitol Drive	AM PM	0.554 0.642	A B	0.570 0.650	A B	0.016 0.008	NO NO	0.468 0.556	A A	0.484 0.565	A A	0.016 0.009	NO NO
39	Gaffey Street/ Channel Street	AM PM	0.660 0.727	B C	0.664 0.743	B C	0.004 0.016	NO NO	0.574 0.641	A B	0.578 0.657	A B	0.004 0.016	NO NO
40	Gaffey Street/ Miniflores Avenue-I-110 Freeway SB On-Off Ramps	AM PM	0.792 0.656	C B	0.811 0.673	D B	0.019 0.017	NO NO	0.707 0.569	C A	0.726 0.586	C A	0.019 0.017	NO NO
41	Gaffey Street/ Summerland Avenue	AM PM	0.926 0.864	E D	0.939 0.884	E D	-0.049 -0.050	YES YES	0.845 0.781	D C	0.857 0.801	D D	0.012 0.020	NO YES
42	Gaffey Street/ I-110 Freeway NB & SB Ramps	AM PM	0.515 0.727	A C	0.520 0.730	A C	0.005 0.003	NO NO	0.448 0.642	A B	0.450 0.644	A B	0.002 0.002	NO NO
43	Gaffey Street/ W. 9th Street	AM PM	0.759 0.680	C B	0.760 0.684	C B	0.001 0.004	NO NO	0.675 0.594	B A	0.676 0.598	B A	0.001 0.004	NO NO
44	Vermont Avenue/ Sepulveda Boulevard	AM PM	0.925 1.008	E F	0.930 1.018	E F	-0.015 -0.077	NO YES	0.943 1.032	E F	0.948 1.041	E F	0.005 0.009	NO NO
45	Vermont Avenue/ Lomita Boulevard	AM PM	1.095 0.936	F E	1.095 0.945	F E	0.000 0.009	NO NO	1.133 0.968	F E	1.134 0.976	F E	0.001 0.008	NO NO
46	Vermont Avenue/ Pacific Coast Highway	AM PM	0.814 0.758	D C	0.835 0.784	D C	-0.050 0.010	YES ---	0.835 0.793	D C	0.856 0.818	D D	0.021 0.025	YES YES
47	I-110 Freeway SB On-Off Ramps/ Pacific Coast Highway	AM PM	0.714 1.013	C F	0.721 1.019	C F	0.007 0.006	NO NO	0.728 1.033	C F	0.735 1.039	C F	0.007 0.006	NO NO
48	Figuerola Place/ I-110 Freeway SB Off-Ramp (north of Anaheim Street)	AM PM	0.533 0.620	A B	0.546 0.650	A B	0.013 0.030	NO NO	0.544 0.632	A B	0.557 0.663	A B	0.013 0.031	NO NO

Table 9-1 (Continued)  
SUMMARY OF VOLUME TO CAPACITY RATIOS  
AND LEVELS OF SERVICE  
WEEKDAY AM AND PM PEAK HOURS AND SATURDAY PEAK HOUR  
EXISTING AND NEAR-TERM CONDITIONS

NO.	INTERSECTION	PEAK HOUR	[1]		[2]		[3]		[4]		[5]		[6]	
			YEAR 2010 EXISTING V/C	LOS	YEAR 2010 EXISTING W/PROJECT V/C	LOS	CHANGE V/C [(3)-(1)]	MITI- GATED	YEAR 2012 NEAR-TERM BASELINE V/C	LOS	YEAR 2012 NEAR-TERM W/PROJECT V/C	LOS	CHANGE V/C [(5)-(4)]	MITI- GATED
49	Figueroa Place/ Anaheim Street	AM	0.728	C	0.770	C	0.042	YES	0.744	C	0.786	C	0.042	YES
		PM	0.932	E	0.993	E	-0.113	YES	0.952	E	1.013	F	0.061	YES
50	Figueroa Street/ Sepulveda Boulevard	AM	0.932	E	0.933	E	0.001	---	0.951	E	0.952	E	0.001	---
		PM	0.781	C	0.784	C	0.003	---	0.796	C	0.800	C	0.004	---
51	Figueroa Street/ I-110 Freeway NB On-Ramp (north of Pacific Coast Highway)	AM	0.820	D	0.841	D	-0.012	YES	0.902	E	0.923	E	0.021	YES
		PM	0.869	D	0.880	D	-0.010	---	0.919	E	0.930	E	0.011	YES
52	Figueroa Street/ Pacific Coast Highway	AM	0.969	E	0.988	E	-0.085	YES	1.107	F	1.126	F	0.019	YES
		PM	0.989	E	0.998	E	-0.123	---	1.063	F	1.073	F	0.010	YES
53	Figueroa Street/ I-110 Freeway NB On-Ramp (north of Anaheim Street)	AM	1.044	F	1.109	F	-0.328	YES	1.073	F	1.138	F	0.065	YES
		PM	0.867	D	0.901	E	-0.298	YES	0.906	E	0.940	E	0.034	YES
54	Figueroa Street/ Anaheim Street	AM	0.854	D	0.875	D	-0.035	YES	0.879	D	0.900	D	0.021	YES
		PM	0.934	E	0.948	E	-0.072	YES	0.955	E	0.969	E	0.014	YES
55	Wilmington Boulevard/ Pacific Coast Highway	AM	0.726	C	0.727	C	0.001	---	0.779	C	0.780	C	0.001	---
		PM	0.676	B	0.678	B	0.002	---	0.700	B	0.703	C	0.003	---
56	Wilmington Boulevard/ Anaheim Street	AM	0.493	A	0.494	A	0.001	---	0.517	A	0.518	A	0.001	---
		PM	0.550	A	0.553	A	0.003	---	0.569	A	0.572	A	0.003	---

According to LADOT's "Traffic Study Policies and Procedures," June 2009, page 16, a transportation impact on an intersection shall be deemed significant in accordance with the following table:

Final v/c	LOS	Project Related Increase in v/c
> 0.700 - 0.800	C	equal to or greater than 0.040
> 0.800 - 0.900	D	equal to or greater than 0.020
> 0.900	E, F	equal to or greater than 0.010



Table 9-2  
SUMMARY OF VOLUME TO CAPACITY RATIOS  
AND LEVELS OF SERVICE  
WEEKDAY AM AND PM HOURS AND SATURDAY PEAK HOUR  
FUTURE CONDITIONS

NO.	INTERSECTION	PEAK HOUR	[1] YEAR 2010 EXISTING		[2] YEAR 2017 CUMULATIVE BASELINE		[3] YEAR 2017 W/PROPOSED PROJECT				[4] YEAR 2017 W/ PROJECT MITIGATION			
			V/C	LOS	V/C	LOS	V/C	LOS	CHANGE V/C [(3)-(2)]	SIGNIF. IMPACT	V/C	LOS	CHANGE V/C [(4)-(2)]	MITI- GATED
1	Hawthorne Boulevard/ Sepulveda Boulevard	AM PM	0.769 0.867	C D	0.898 1.046	D F	0.899 1.047	D F	0.001 0.001	NO NO	0.899 1.047	D F	0.001 0.001	--- ---
2	Hawthorne Boulevard/ Pacific Coast Highway	AM PM	0.867 0.816	D D	1.059 0.993	F E	1.065 0.997	F E	0.006 0.004	NO NO	1.065 0.997	F E	0.006 0.004	--- ---
3	Hawthorne Boulevard/ Palos Verdes Drive North	AM PM	0.941 0.847	E D	1.066 0.974	F E	1.070 0.977	F E	0.004 0.003	NO NO	1.070 0.977	F E	0.004 0.003	--- ---
4	Crenshaw Boulevard/ Sepulveda Boulevard	AM PM	0.799 0.932	C E	0.978 1.177	E F	0.978 1.179	E F	0.000 0.002	NO NO	0.978 1.179	E F	0.000 0.002	--- ---
5	Crenshaw Boulevard/ Lomita Boulevard	AM PM	0.850 0.943	D E	1.062 1.182	F F	1.067 1.184	F F	0.005 0.002	NO NO	1.067 1.184	F F	0.005 0.002	--- ---
6	Crenshaw Boulevard/ Pacific Coast Highway	AM PM	0.948 1.026	E F	1.114 1.261	F F	1.118 <b>1.272</b>	F <b>F</b>	0.004 <b>0.011</b>	NO <b>YES</b>	1.051 <b>1.099</b>	F <b>F</b>	-0.063 <b>-0.162</b>	--- <b>YES</b>
7	Crenshaw Boulevard/ Palos Verdes Drive North	AM PM	0.784 0.814	C D	0.883 0.955	D E	0.896 <b>0.977</b>	D <b>E</b>	0.013 <b>0.022</b>	NO <b>YES</b>	0.800 <b>0.857</b>	C <b>D</b>	-0.083 <b>-0.098</b>	--- <b>YES</b>
8	Arlington Avenue/ Lomita Boulevard	AM PM	0.893 0.934	D E	0.998 1.043	E F	1.003 1.048	F F	0.005 0.005	NO NO	1.003 1.048	F F	0.005 0.005	--- ---
9	Narbonne Avenue/ Pacific Coast Highway	AM PM	0.799 0.731	C C	0.936 0.853	E D	0.943 0.856	E D	0.007 0.003	NO NO	0.943 0.856	E D	0.007 0.003	--- ---
10	Palos Verdes Drive East/ Palos Verdes Drive North	AM PM	0.747 0.675	C B	0.833 0.768	D C	0.840 0.776	D C	0.007 0.008	NO NO	0.840 0.776	D C	0.007 0.008	--- ---
11	Western Avenue/ Sepulveda Boulevard	AM PM SAT	0.920 1.004 0.808	E F D	0.969 1.074 0.869	E F D	0.975 1.082 0.873	E F D	0.006 0.008 0.004	NO NO NO	0.975 1.082 0.873	E F D	0.006 0.008 0.004	--- --- ---
12	Western Avenue/ Lomita Boulevard	AM PM SAT	0.971 0.981 0.754	E E C	1.008 1.002 0.788	F F C	1.016 <b>1.025</b> 0.799	F <b>F</b> C	0.008 <b>0.023</b> 0.011	NO <b>YES</b> NO	0.914 <b>0.942</b> 0.704	E <b>E</b> C	-0.094 <b>-0.060</b> -0.084	--- <b>YES</b> ---
13	Western Avenue/ Pacific Coast Highway	AM PM SAT	0.893 0.851 0.816	D D D	1.053 1.007 0.964	F F E	<b>1.084</b> <b>1.058</b> <b>1.005</b>	<b>F</b> <b>F</b> <b>F</b>	<b>0.031</b> <b>0.051</b> <b>0.041</b>	<b>YES</b> <b>YES</b> <b>YES</b>	<b>1.021</b> <b>0.981</b> <b>0.972</b>	<b>F</b> <b>E</b> <b>E</b>	<b>-0.032</b> <b>-0.026</b> <b>0.008</b>	<b>YES</b> <b>YES</b> <b>YES</b>
14	Western Avenue/ Anaheim Street	AM PM SAT	0.641 0.520 0.472	B A A	0.616 0.488 0.429	B A A	0.656 0.509 0.454	B A A	0.040 0.021 0.025	NO NO NO	0.656 0.509 0.454	B A A	0.040 0.021 0.025	--- --- ---
15	Western Avenue/ Palos Verdes Drive North	AM PM SAT	0.905 0.851 0.648	E D B	1.041 0.967 0.742	F E C	<b>1.173</b> <b>1.150</b> <b>0.865</b>	<b>F</b> <b>F</b> <b>D</b>	<b>0.132</b> <b>0.183</b> <b>0.123</b>	<b>YES</b> <b>YES</b> <b>YES</b>	<b>0.893</b> <b>0.936</b> <b>0.707</b>	<b>D</b> <b>E</b> <b>C</b>	<b>-0.148</b> <b>-0.031</b> <b>-0.035</b>	<b>YES</b> <b>YES</b> <b>YES</b>
16	Western Avenue/ Peninsula Verde Drive	AM PM SAT	0.816 0.705 0.611	D C B	0.907 0.790 0.674	E C B	<b>1.044</b> <b>0.918</b> <b>0.761</b>	<b>F</b> <b>E</b> <b>C</b>	<b>0.137</b> <b>0.128</b> <b>0.087</b>	<b>YES</b> <b>YES</b> <b>YES</b>	<b>0.735</b> <b>0.634</b> <b>0.509</b>	<b>C</b> <b>B</b> <b>A</b>	<b>-0.172</b> <b>-0.156</b> <b>-0.165</b>	<b>YES</b> <b>YES</b> <b>YES</b>

Table 9-2 (Continued)  
SUMMARY OF VOLUME TO CAPACITY RATIOS  
AND LEVELS OF SERVICE  
WEEKDAY AM AND PM HOURS AND SATURDAY PEAK HOUR  
FUTURE CONDITIONS

NO.	INTERSECTION	PEAK HOUR	[1] YEAR 2010 EXISTING		[2] YEAR 2017 CUMULATIVE BASELINE		[3] YEAR 2017 W/PROPOSED PROJECT		CHANGE V/C [(3)-(2)]	SIGNIF. IMPACT	[4] YEAR 2017 W/ PROJECT MITIGATION		CHANGE V/C [(4)-(2)]	MITI- GATED
			V/C	LOS	V/C	LOS	V/C	LOS			V/C	LOS		
17	Western Avenue/ Green Hills Drive	AM PM SAT	0.662 0.469 0.439	B A A	0.735 0.540 0.497	C A A	0.658 0.593 0.553	B A A	-0.077 0.053 0.056	NO NO NO	0.658 0.593 0.553	B A A	-0.077 0.053 0.056	--- --- ---
18	Western Avenue/ Avenida Aprenda-South Access	AM PM SAT	0.759 0.551 0.425	C A A	0.849 0.628 0.483	D B A	0.790 0.665 0.525	C B A	-0.059 0.037 0.042	NO NO NO	0.790 0.665 0.525	C B A	-0.059 0.037 0.042	--- --- ---
19	Western Avenue/ Fitness Drive	AM PM SAT	0.785 0.676 0.633	C B B	0.872 0.758 0.698	D C B	0.887 0.784 <b>0.741</b>	D C <b>C</b>	0.015 0.026 <b>0.043</b>	NO NO <b>YES</b>	0.709 0.628 <b>0.593</b>	C B <b>A</b>	-0.163 -0.130 <b>-0.105</b>	--- --- <b>YES</b>
20	Western Avenue/ Westmont Drive	AM PM SAT	0.821 0.772 0.795	D C C	0.921 0.873 0.880	E D D	<b>0.963</b> <b>0.920</b> <b>0.923</b>	<b>E</b> <b>E</b> <b>E</b>	<b>0.042</b> <b>0.047</b> <b>0.043</b>	<b>YES</b> <b>YES</b> <b>YES</b>	<b>0.853</b> <b>0.820</b> <b>0.821</b>	<b>D</b> <b>D</b> <b>D</b>	<b>-0.068</b> <b>-0.053</b> <b>-0.059</b>	<b>YES</b> <b>YES</b> <b>YES</b>
21	Western Avenue/ Toscanini Drive	AM PM SAT	0.740 0.584 0.564	C A A	0.825 0.660 0.631	D B B	0.831 0.670 0.647	D B B	0.006 0.010 0.016	NO NO NO	0.831 0.670 0.647	D B B	0.006 0.010 0.016	--- --- ---
22	Western Avenue/ Caddington Drive	AM PM SAT	0.626 0.741 0.652	B C B	0.700 0.826 0.726	B D C	0.707 0.842 0.743	C D C	0.007 0.016 0.017	NO NO NO	0.707 0.842 0.743	C D C	0.007 0.016 0.017	--- --- ---
23	Western Avenue/ Capitol Drive	AM PM SAT	0.844 0.756 0.845	D C D	0.947 0.863 0.939	E D E	<b>0.957</b> <b>0.887</b> <b>0.958</b>	<b>E</b> <b>D</b> <b>E</b>	<b>0.010</b> <b>0.024</b> <b>0.019</b>	<b>YES</b> <b>YES</b> <b>YES</b>	<b>0.906</b> <b>0.843</b> <b>0.912</b>	<b>E</b> <b>D</b> <b>E</b>	<b>-0.041</b> <b>-0.020</b> <b>-0.027</b>	<b>YES</b> <b>YES</b> <b>YES</b>
24	Western Avenue/ Park Western Drive	AM PM SAT	0.667 0.701 0.656	B C B	0.739 0.773 0.721	C C C	0.746 0.793 0.737	C C C	0.007 0.020 0.016	NO NO NO	0.746 0.793 0.737	C C C	0.007 0.020 0.016	--- --- ---
25	Western Avenue/ Crestwood Street	AM PM SAT	0.778 0.750 0.767	C C C	0.858 0.828 0.840	D D D	0.862 0.833 0.853	D D D	0.004 0.005 0.013	NO NO NO	0.862 0.833 0.853	D D D	0.004 0.005 0.013	--- --- ---
26	Western Avenue/ Summerland Avenue	AM PM SAT	0.847 0.701 0.679	D C B	0.934 0.775 0.747	E C C	0.940 <b>0.801</b> 0.766	E <b>D</b> C	0.006 <b>0.026</b> 0.019	NO <b>YES</b> NO	0.793 <b>0.713</b> 0.668	C <b>C</b> B	-0.141 <b>-0.062</b> -0.079	--- <b>YES</b> ---
27	Western Avenue/ W. 1st Street	AM PM SAT	0.875 0.917 0.827	D E D	0.867 0.898 0.807	D D D	0.872 0.903 0.814	D E D	0.005 0.005 0.007	NO NO NO	0.872 0.903 0.814	D E D	0.005 0.005 0.007	--- --- ---
28	Western Avenue/ S. Weymouth Avenue	AM PM	0.752 0.697	C B	0.712 0.653	C B	0.719 0.660	C B	0.007 0.007	NO NO	0.719 0.660	C B	0.007 0.007	--- ---
29	Western Avenue/ W. 9th Street	AM PM	0.553 0.684	A B	0.506 0.650	A B	0.507 0.652	A B	0.001 0.002	NO NO	0.507 0.652	A B	0.001 0.002	--- ---
30	Western Avenue/ W. 25th Street	AM PM	0.602 0.575	B A	0.653 0.600	B A	0.656 0.604	B B	0.003 0.004	NO NO	0.656 0.604	B B	0.003 0.004	--- ---
31	Weymouth Avenue/ W. 9th Street	AM PM	0.615 0.516	B A	0.641 0.529	B A	0.645 0.533	B A	0.004 0.004	NO NO	0.645 0.533	B A	0.004 0.004	--- ---
32	Normandie Avenue/ Sepulveda Boulevard	AM PM	0.823 0.754	D C	0.967 0.890	E D	0.972 0.892	E D	0.005 0.002	NO NO	0.972 0.892	E D	0.005 0.002	--- ---

Table 9-2 (Continued)  
SUMMARY OF VOLUME TO CAPACITY RATIOS  
AND LEVELS OF SERVICE  
WEEKDAY AM AND PM HOURS AND SATURDAY PEAK HOUR  
FUTURE CONDITIONS

NO.	INTERSECTION	PEAK HOUR	[1] YEAR 2010 EXISTING		[2] YEAR 2017 CUMULATIVE BASELINE		[3]				[4]			
			V/C	LOS	V/C	LOS	YEAR 2017 W/PROPOSED PROJECT		CHANGE V/C	SIGNIF. IMPACT	YEAR 2017 W/PROJECT MITIGATION		CHANGE V/C	MITI- GATED
							V/C	LOS	[(3)-(2)]		V/C	LOS	[(4)-(2)]	
33	Normandie Avenue/ Lomita Boulevard	AM PM	1.021 1.008	F F	1.026 1.014	F F	1.028 1.021	F F	0.002 0.007	NO NO	1.028 1.021	F F	0.002 0.007	--- ---
34	Normandie Avenue/ Pacific Coast Highway	AM PM	0.782 0.778	C C	0.818 0.834	D D	0.821 0.840	D D	0.003 0.006	NO NO	0.821 0.840	D D	0.003 0.006	--- ---
35	Vermont Avenue/ Normandie Avenue	AM PM	0.602 0.528	B A	0.663 0.607	B B	0.681 0.638	B B	0.018 0.031	NO NO	0.681 0.638	B B	0.018 0.031	--- ---
36	Vermont Avenue-Palos Verdes Drive North Gaffey Street/Anaheim Street	AM PM	0.852 0.888	D D	0.852 0.890	D D	0.864 <b>0.928</b>	D <b>E</b>	0.012 <b>0.038</b>	NO <b>YES</b>	0.834 <b>0.884</b>	D <b>D</b>	-0.018 <b>-0.006</b>	--- <b>YES</b>
37	Gaffey Street/ Westmont Drive	AM PM	0.662 0.831	B D	0.646 0.823	B D	0.677 <b>0.869</b>	B <b>D</b>	0.031 <b>0.046</b>	NO <b>YES</b>	0.615 <b>0.822</b>	B <b>D</b>	-0.031 <b>-0.001</b>	--- <b>YES</b>
38	Gaffey Street/ Capitol Drive	AM PM	0.554 0.642	A B	0.527 0.623	A B	0.543 0.631	A B	0.016 0.008	NO NO	0.543 0.631	A B	0.016 0.008	--- ---
39	Gaffey Street/ Channel Street	AM PM	0.660 0.727	B C	0.649 0.767	B C	0.653 0.783	B C	0.004 0.016	NO NO	0.653 0.783	B C	0.004 0.016	--- ---
40	Gaffey Street/ Miraflores Avenue-I-110 Freeway SB On-Off Ramps	AM PM	0.792 0.656	C B	0.778 0.646	C B	0.797 0.663	C B	0.019 0.017	NO NO	0.797 0.663	C B	0.019 0.017	--- ---
41	Gaffey Street/ Summerland Avenue	AM PM	0.926 0.864	E D	0.928 0.891	E D	<b>0.940</b> <b>0.911</b>	<b>E</b> <b>E</b>	<b>0.012</b> <b>0.020</b>	<b>YES</b> <b>YES</b>	<b>0.874</b> <b>0.836</b>	<b>D</b> <b>D</b>	<b>-0.054</b> <b>-0.055</b>	<b>YES</b> <b>YES</b>
42	Gaffey Street/ I-110 Freeway NB & SB Ramps	AM PM	0.515 0.727	A C	0.572 0.856	A D	0.578 0.859	A D	0.006 0.003	NO NO	0.578 0.859	A D	0.006 0.003	--- ---
43	Gaffey Street/ W. 9th Street	AM PM	0.759 0.680	C B	0.924 0.865	E D	0.925 0.869	E D	0.001 0.004	NO NO	0.925 0.869	E D	0.001 0.004	--- ---
44	Vermont Avenue/ Sepulveda Boulevard	AM PM	0.925 1.008	E F	1.038 1.156	F F	1.042 <b>1.166</b>	F <b>F</b>	0.004 <b>0.010</b>	NO <b>YES</b>	0.988 <b>1.038</b>	E <b>F</b>	-0.050 <b>-0.118</b>	--- <b>YES</b>
45	Vermont Avenue/ Lomita Boulevard	AM PM	1.095 0.936	F E	1.159 1.026	F F	1.160 1.033	F F	0.001 0.007	NO NO	1.160 1.033	F F	0.001 0.007	--- ---
46	Vermont Avenue/ Pacific Coast Highway	AM PM	0.814 0.758	D C	0.846 0.794	D C	<b>0.866</b> <b>0.829</b>	<b>D</b> <b>D</b>	<b>0.020</b> <b>0.035</b>	<b>YES</b> <b>YES</b>	<b>0.776</b> <b>0.782</b>	<b>C</b> <b>C</b>	<b>-0.070</b> <b>-0.012</b>	<b>YES</b> <b>YES</b>
47	I-110 Freeway SB On-Off Ramps/ Pacific Coast Highway	AM PM	0.714 1.013	C F	0.809 1.078	D F	0.820 1.084	D F	0.011 0.006	NO NO	0.820 1.084	D F	0.011 0.006	--- ---

Table 9-2 (Continued)  
SUMMARY OF VOLUME TO CAPACITY RATIOS  
AND LEVELS OF SERVICE  
WEEKDAY AM AND PM HOURS AND SATURDAY PEAK HOUR  
FUTURE CONDITIONS

NO.	INTERSECTION	PEAK HOUR	[1] YEAR 2010 EXISTING		[2] YEAR 2017 CUMULATIVE BASELINE		[3] YEAR 2017 W/PROPOSED PROJECT				[4] YEAR 2017 W/ PROJECT MITIGATION			
			V/C	LOS	V/C	LOS	V/C	LOS	CHANGE V/C [(3)-(2)]	SIGNIF. IMPACT	V/C	LOS	CHANGE V/C [(4)-(2)]	MITI- GATED
48	Figueroa Place/ I-110 Freeway SB Off-Ramp (north of Anaheim Street)	AM PM	0.533 0.620	A B	0.633 0.718	B C	0.646 0.748	B C	0.013 0.030	NO NO	0.517 0.599	A A	-0.116 -0.119	--- ---
49	Figueroa Place/ Anaheim Street	AM PM	0.728 0.932	C E	0.865 1.097	D F	<b>0.907</b> <b>1.158</b>	E F	<b>0.042</b> <b>0.061</b>	YES YES	<b>0.852</b> <b>0.927</b>	D E	<b>-0.013</b> <b>-0.170</b>	YES YES
50	Figueroa Street/ Sepulveda Boulevard	AM PM	0.932 0.781	E C	1.031 0.886	F D	1.032 0.889	F D	0.001 0.003	NO NO	1.032 0.889	F D	0.001 0.003	--- ---
51	Figueroa Street/ I-110 Freeway NB On-Ramp (north of Pacific Coast Highway)	AM PM	0.820 0.869	D D	0.972 0.993	E E	<b>0.993</b> <b>1.004</b>	E F	<b>0.021</b> <b>0.011</b>	YES YES	<b>0.951</b> <b>0.981</b>	E E	<b>-0.021</b> <b>-0.012</b>	YES YES
52	Figueroa Street/ Pacific Coast Highway	AM PM	0.969 0.989	E E	1.111 1.097	F F	<b>1.131</b> <b>1.107</b>	F F	<b>0.020</b> <b>0.010</b>	YES YES	<b>0.999</b> <b>0.971</b>	E E	<b>-0.112</b> <b>-0.126</b>	YES YES
53	Figueroa Street/ I-110 Freeway NB On-Ramp (north of Anaheim Street)	AM PM	1.044 0.867	F D	1.177 1.034	F F	<b>1.242</b> <b>1.069</b>	F F	<b>0.065</b> <b>0.035</b>	YES YES	<b>0.801</b> <b>0.674</b>	D B	<b>-0.376</b> <b>-0.360</b>	YES YES
54	Figueroa Street/ Anaheim Street	AM PM	0.854 0.934	D E	0.897 0.945	D E	<b>0.916</b> <b>0.959</b>	E E	<b>0.019</b> <b>0.014</b>	YES YES	<b>0.851</b> <b>0.859</b>	D D	<b>-0.046</b> <b>-0.086</b>	YES YES
55	Wilmington Boulevard/ Pacific Coast Highway	AM PM	0.726 0.676	C B	0.855 0.718	D C	0.856 0.720	D C	0.001 0.002	NO NO	0.856 0.720	D C	0.001 0.002	--- ---
56	Wilmington Boulevard/ Anaheim Street	AM PM	0.493 0.550	A A	0.485 0.538	A A	0.486 0.540	A A	0.001 0.002	NO NO	0.486 0.540	A A	0.001 0.002	--- ---

According to LADOT's "Traffic Study Policies and Procedures," June 2009, page 16, a transportation impact on an intersection shall be deemed significant in accordance with the following table:

<u>Final v/c</u>	<u>LOS</u>	<u>Project Related Increase in v/c</u>
> 0.700 - 0.800	C	equal to or greater than 0.040
> 0.800 - 0.900	D	equal to or greater than 0.020
> 0.900	E,F	equal to or greater than 0.010

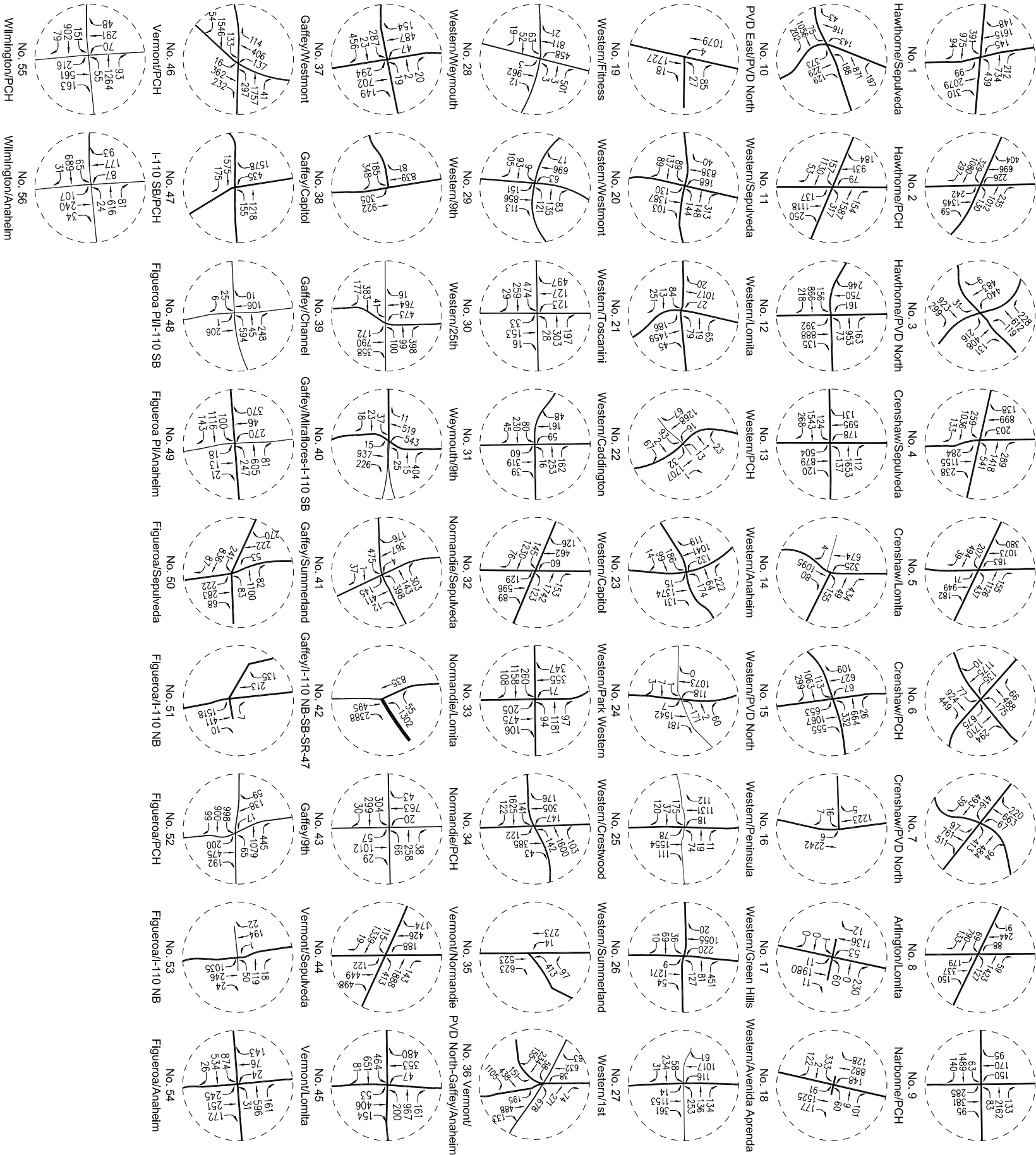
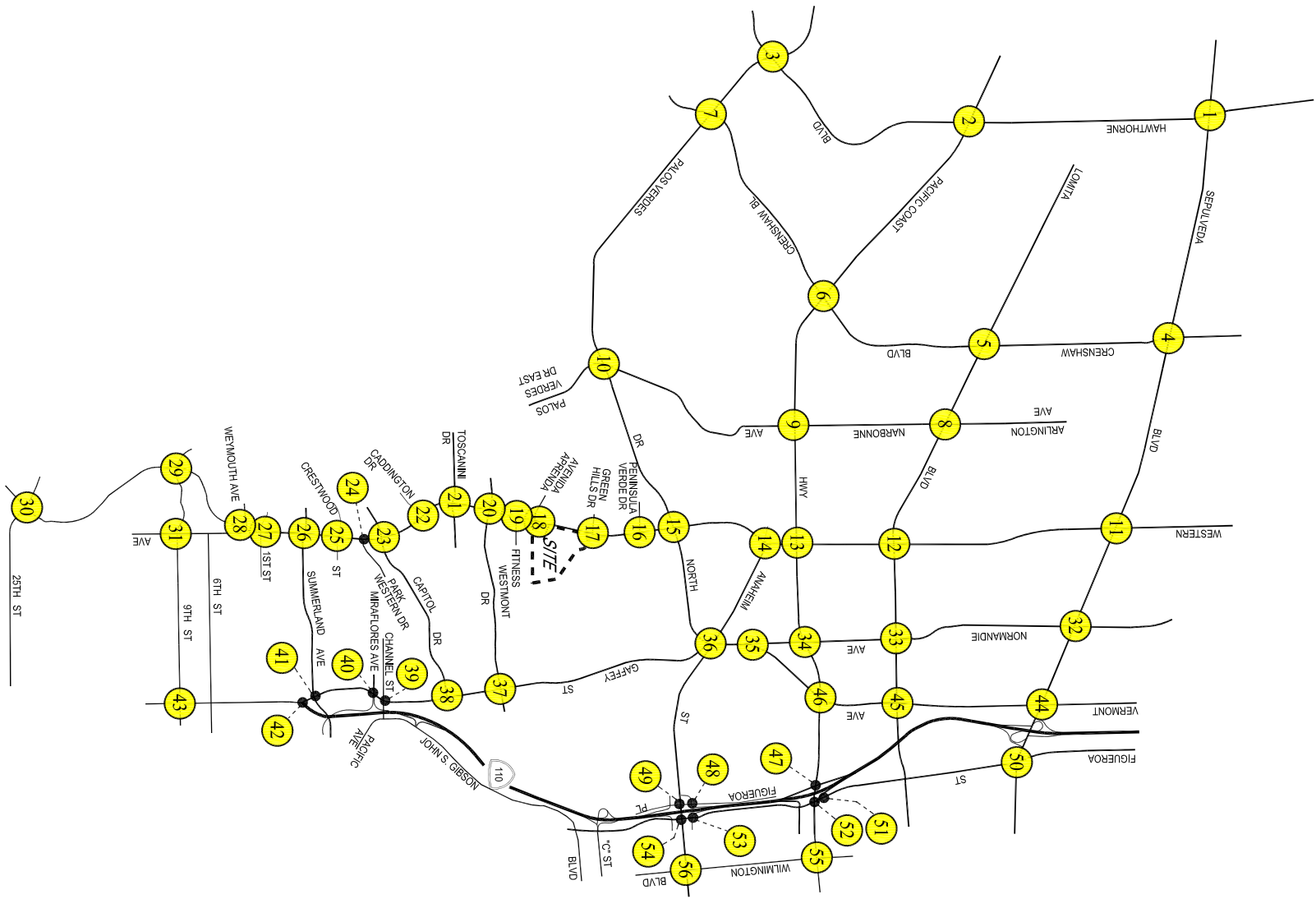


FIGURE 9-1

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EXISTING WITH PROJECT TRAFFIC VOLUMES

WEEKDAY AM PEAK HOUR

PONTE VISTA AT SAN PEDRO PROJECT

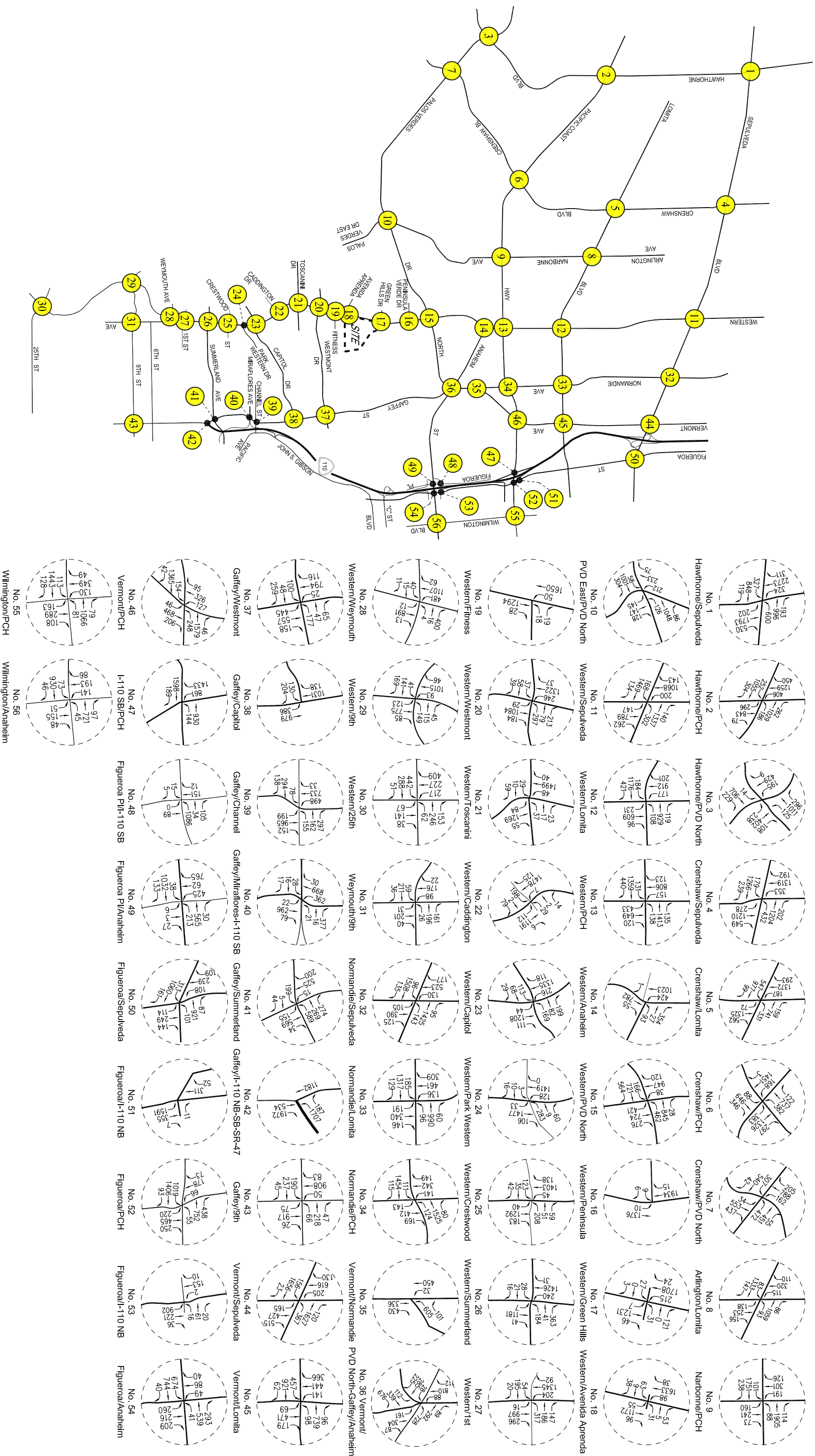
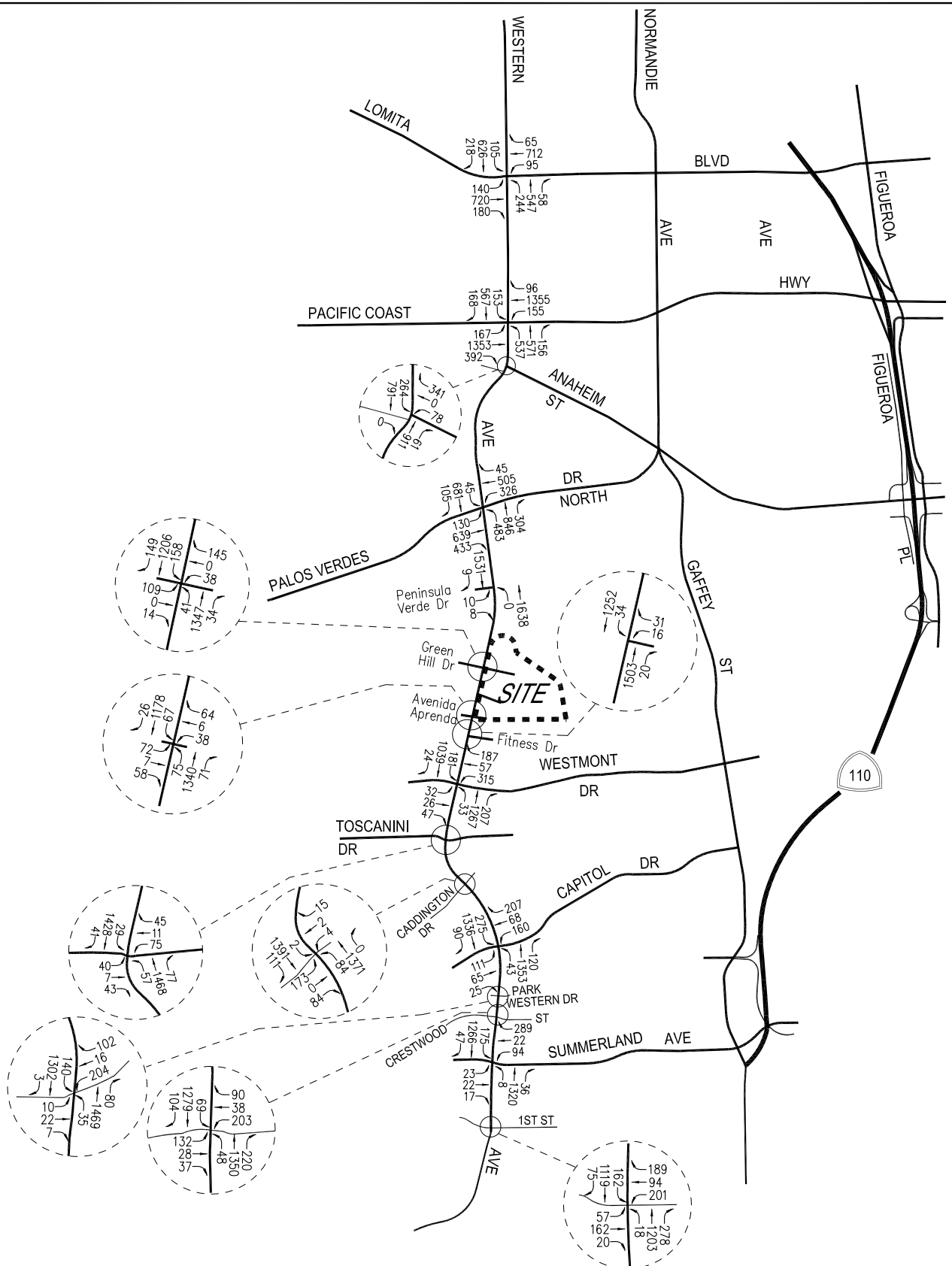


FIGURE 9-2

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EXISTING WITH PROJECT TRAFFIC VOLUMES  
WEEKDAY PM PEAK HOUR  
PONTE VISTA AT SAN PEDRO PROJECT

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PONTE VISTA AT SAN PEDRO PROJECT

As summarized in column [4] of *Table 9-1*, 37 of the 56 study are expected to operate at LOS D or better during the weekday AM peak hour, weekday PM peak hour and/or the Saturday mid-day peak hour with the addition of ambient traffic growth and the traffic due to the near-term related projects. The remaining study intersections are expected to operate at LOS E or worse during the weekday AM peak hour, weekday PM peak hour and/or the Saturday mid-day peak hour. The near-term cumulative baseline (existing, ambient growth, and near-term related projects) traffic volumes at the study intersections during the weekday AM peak hour, weekday PM peak hour and Saturday mid-day peak hour are provided in **Figures 9-4, 9-5 and 9-6**, respectively.

### 9.2.2 *Near-Term Cumulative With Project Conditions*

As shown in column [5] of *Table 9-1*, application of the City's threshold criteria to the "Near-Term Cumulative With Project" scenario indicates that the proposed project is expected to create a significant impact at 15 of the 56 study intersections during the weekday AM peak hour, weekday PM peak hour and/or the Saturday mid-day peak hour. Incremental but not significant impacts are noted at the remaining study intersections. The near-term cumulative with project (existing, ambient growth, near-term related projects and project) traffic volumes at the study intersections during the weekday AM peak hour, weekday PM peak hour and Saturday mid-day peak hour are provided in **Figures 9-7, 9-8 and 9-9**, respectively.

## 9.3 Future Conditions

### 9.3.1 *Future Cumulative Conditions*

The future year 2017 cumulative conditions were forecast based on the addition of traffic generated by the related projects, as well as the growth in traffic due to the combined effects of continuing development, intensification of existing developments and other factors (i.e., ambient growth). This condition assumes implementation of the Wilmington ATSAC/ATCS system and related striping improvements to be provided by LADOT at several intersections.

The  $v/c$  ratios at all 56 study intersections are incrementally increased with the addition of traffic generated by the related projects listed in *Table 6-1* and growth in ambient traffic. As shown in column [3] of *Table 9-2*, 26 of the 56 study are expected to operate at LOS D or better during the weekday AM peak hour, weekday PM peak hour and/or the Saturday mid-day peak hour with the addition of ambient traffic growth and the traffic due to the related projects (future cumulative baseline conditions). The remaining study intersections are expected to operate at LOS E or worse during the weekday AM peak hour, weekday PM peak hour and/or the Saturday mid-day peak hour. The future cumulative (existing, ambient growth, and related projects) traffic volumes at the study intersections during the weekday AM peak hour, weekday PM peak hour and Saturday mid-day peak hour are provided in **Figures 9-10, 9-11 and 9-12**, respectively.



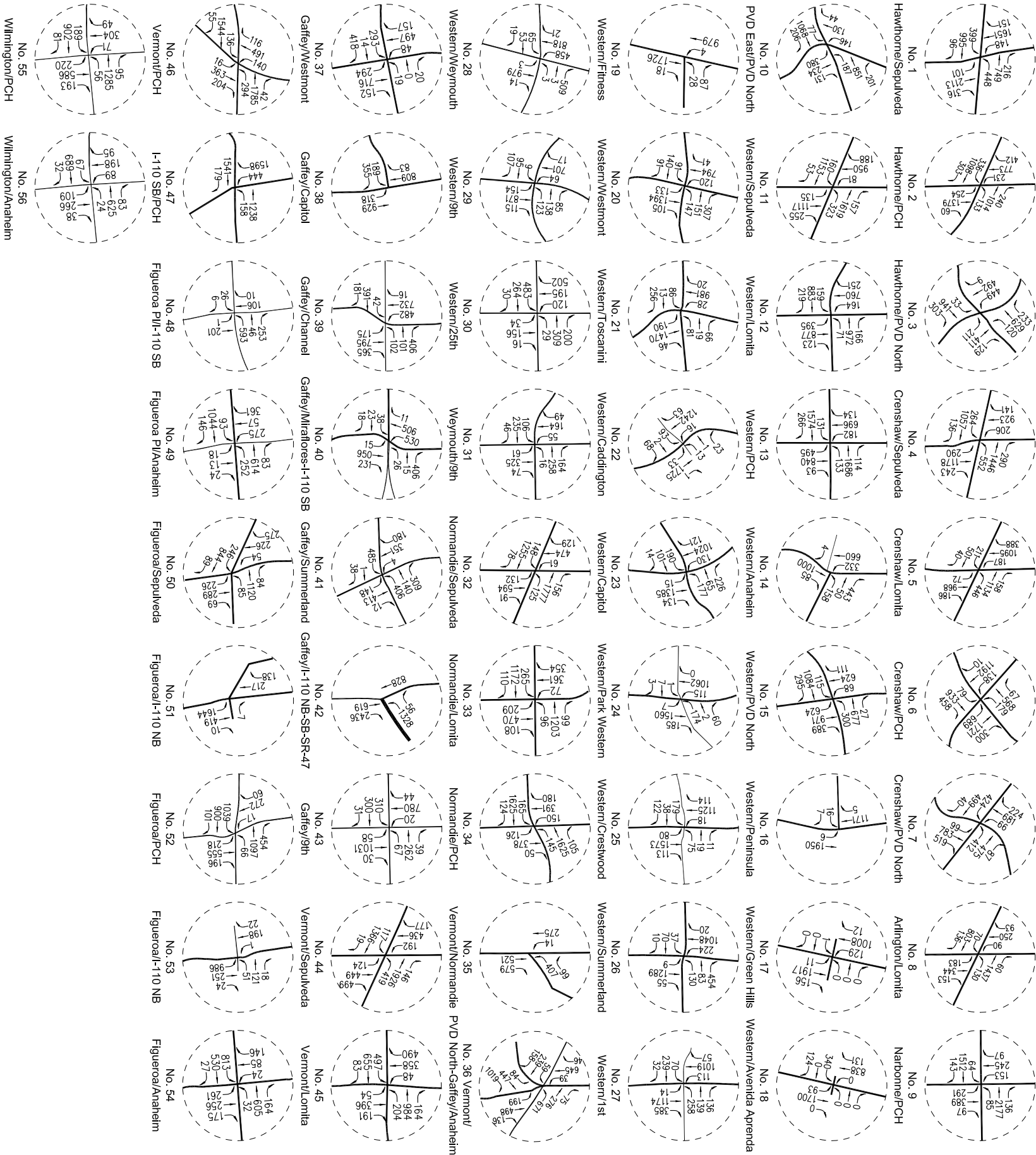
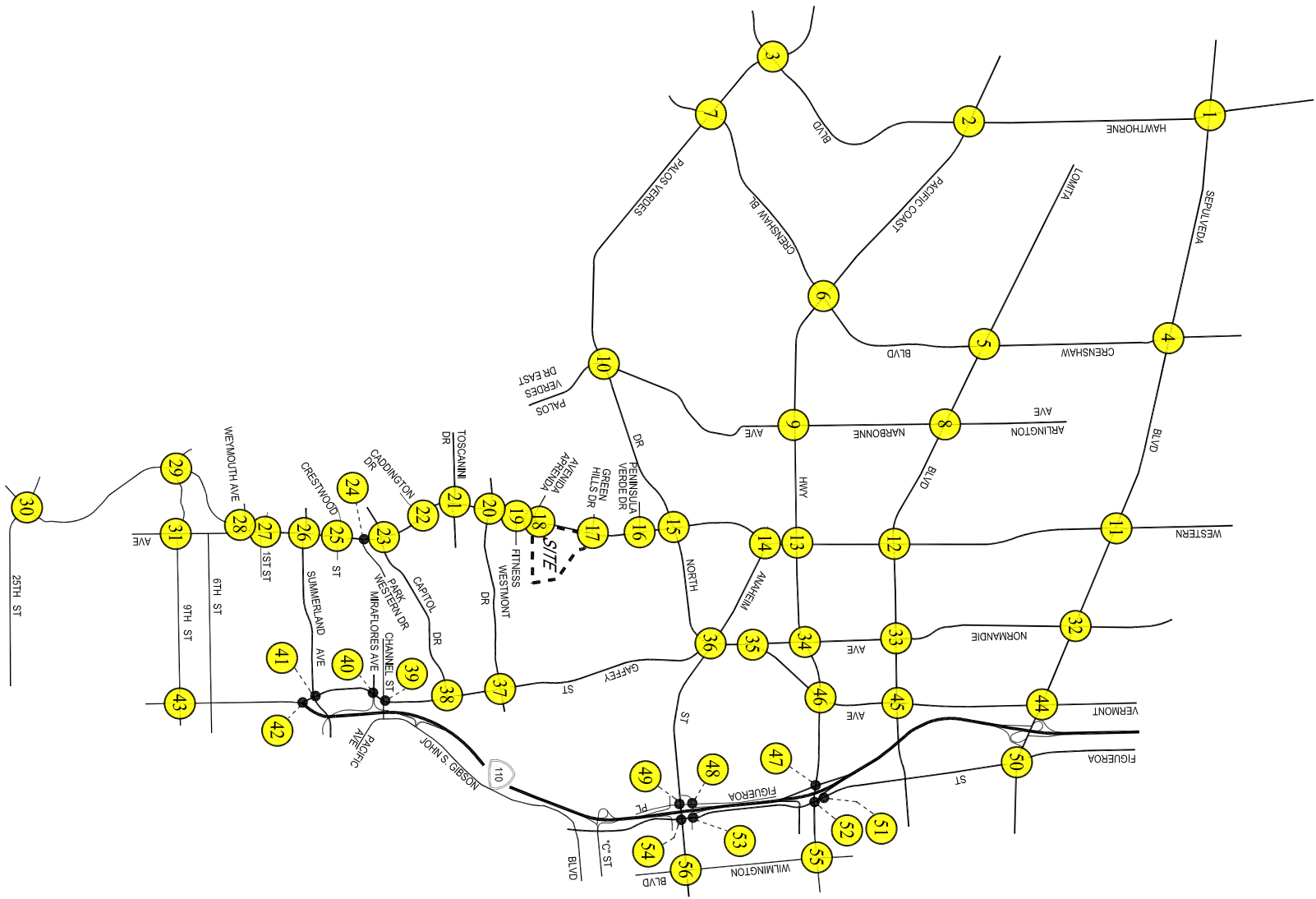


FIGURE 9-4

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NEAR-TERM YEAR 2012 CUMULATIVE BASELINE TRAFFIC VOLUMES  
WEEKDAY AM PEAK HOUR  
PONTE VISTA AT SAN PEDRO PROJECT

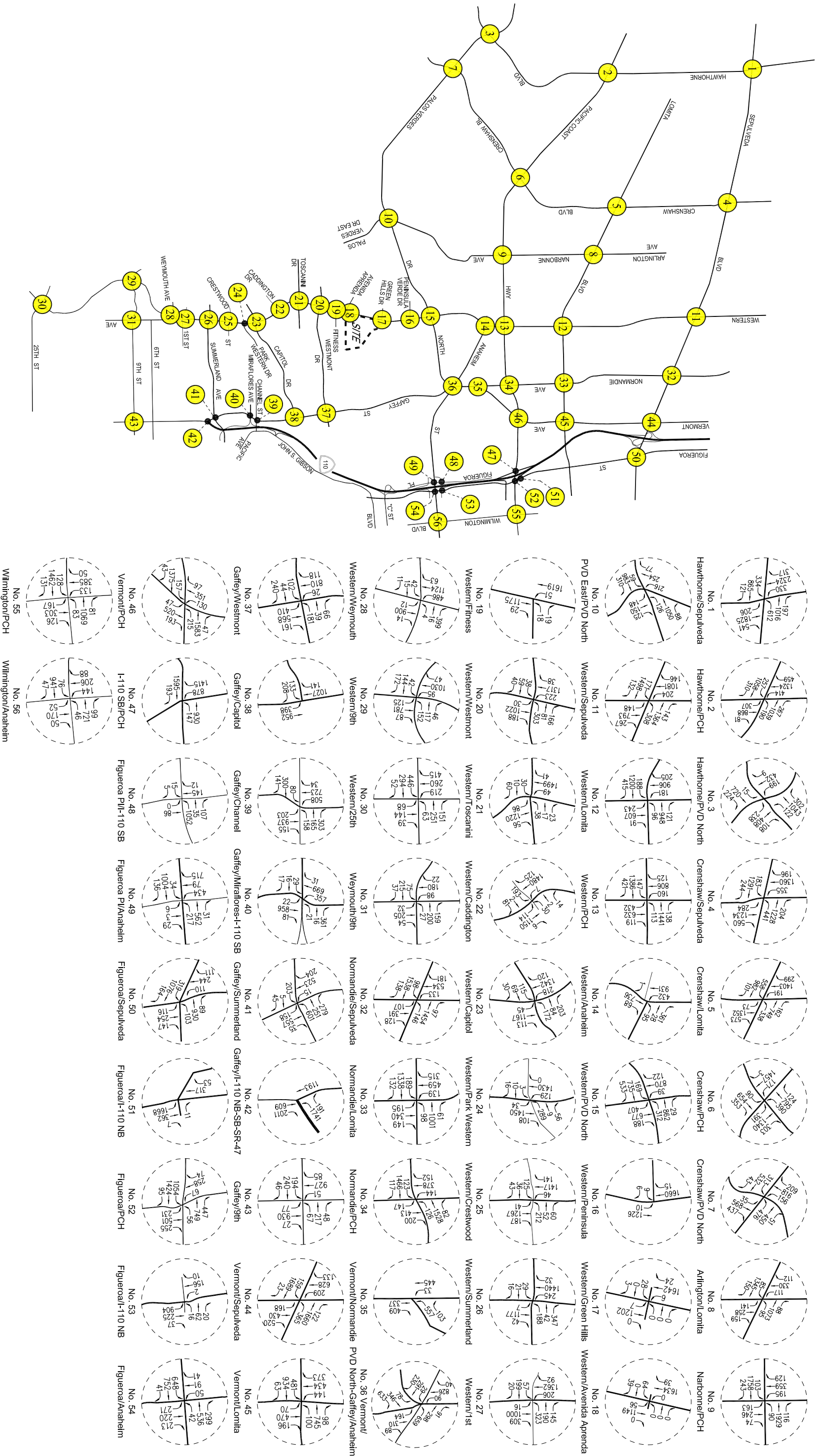


FIGURE 9-5

NEAR-TERM YEAR 2012 CUMULATIVE BASELINE TRAFFIC VOLUMES

WEEKDAY PM PEAK HOUR

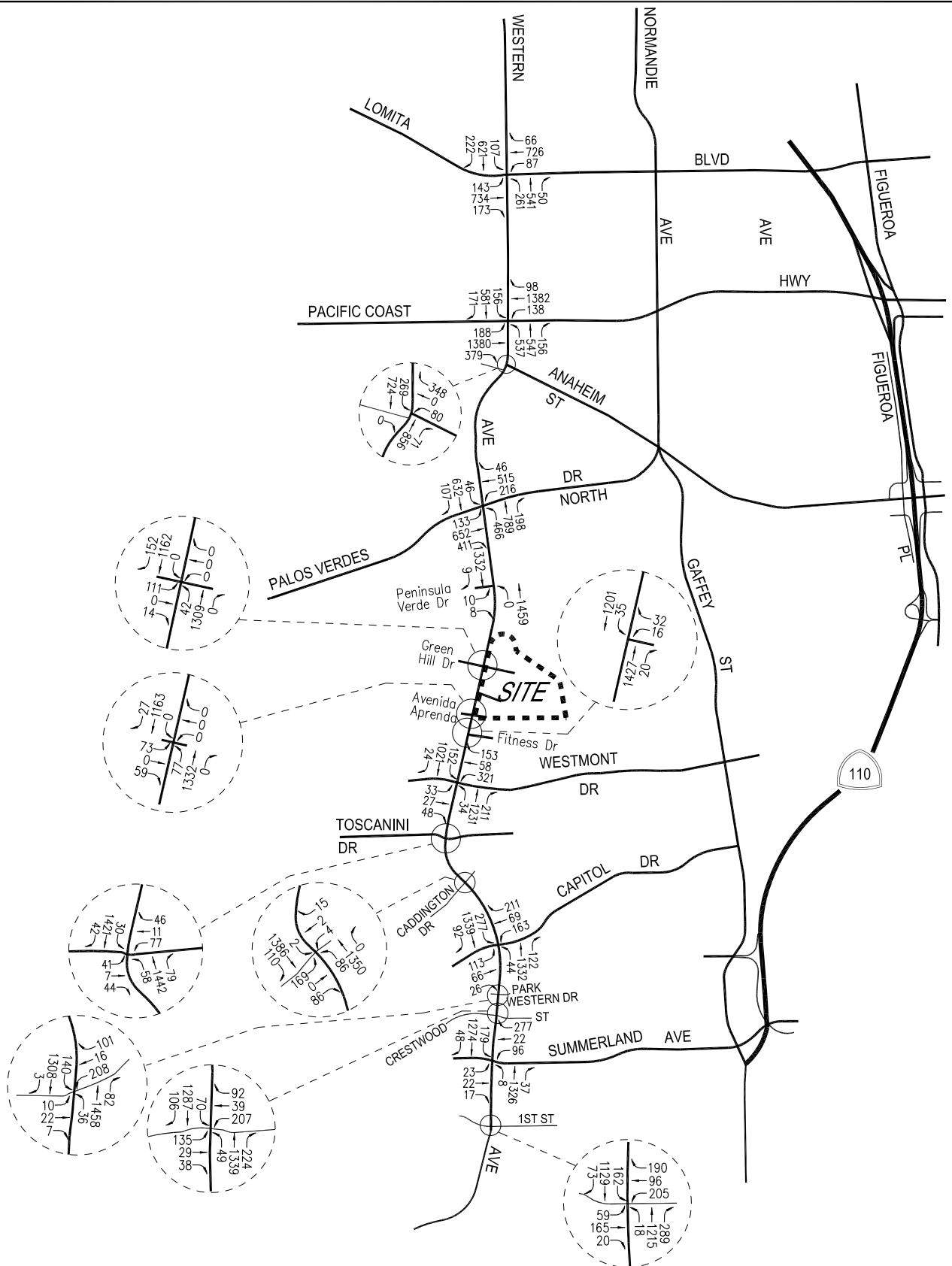
PONTE VISTA AT SAN PEDRO PROJECT



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**FIGURE 9-6**  
**NEAR-TERM YEAR 2012 CUMULATIVE BASELINE**  
**TRAFFIC VOLUMES**  
**SATURDAY MID-DAY PEAK HOUR**  
**PONTE VISTA AT SAN PEDRO PROJECT**



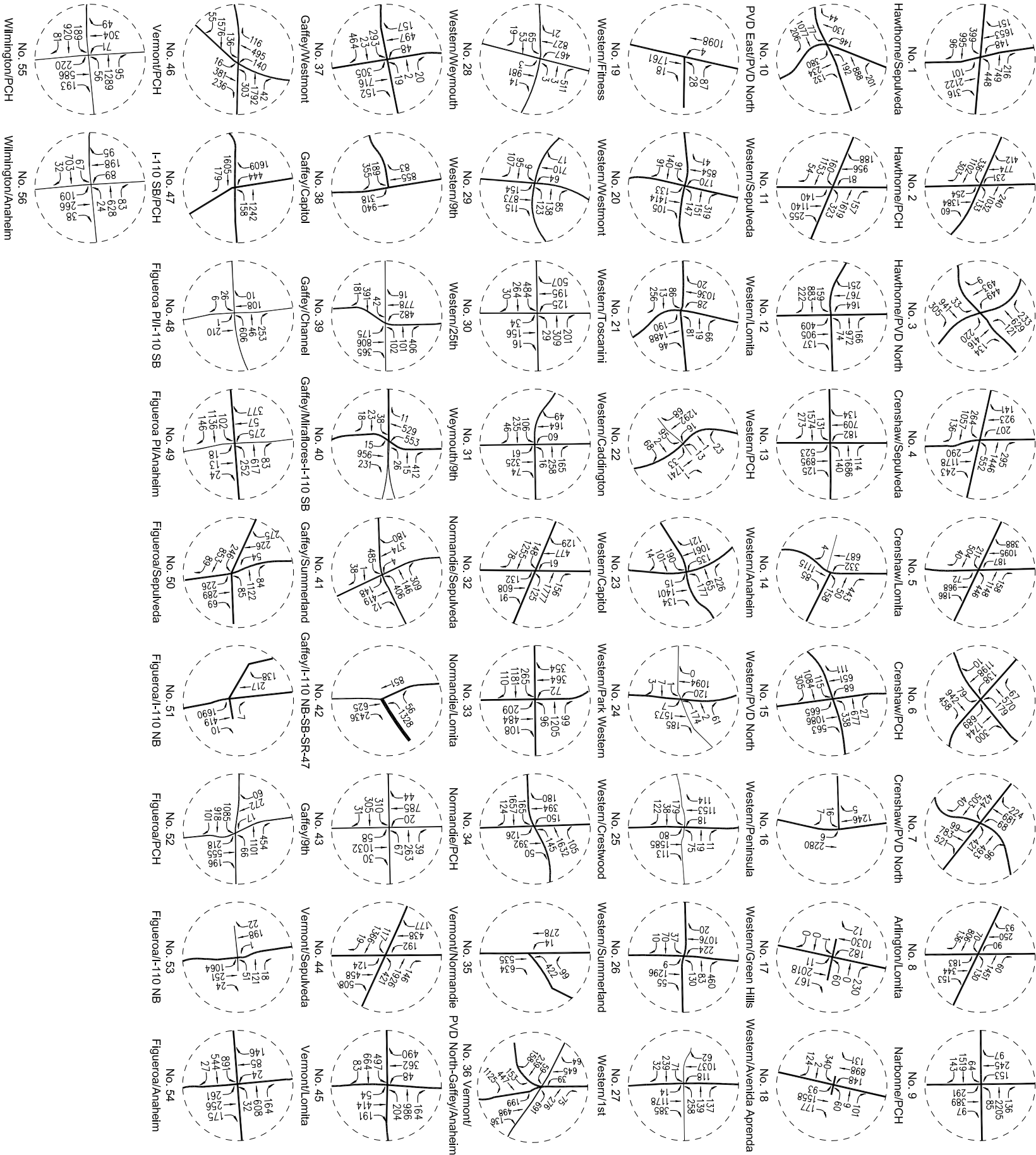
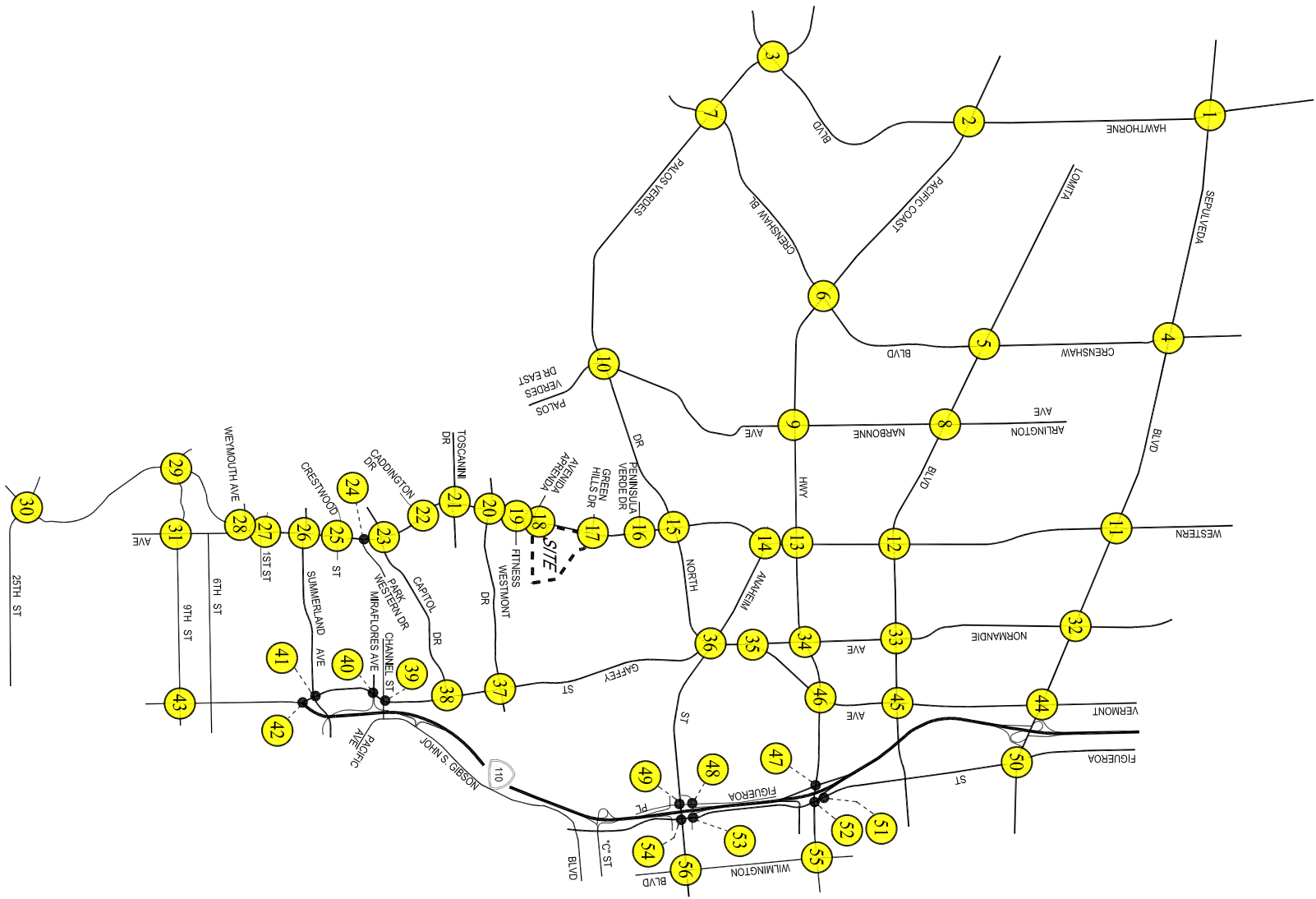


FIGURE 9-7

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NEAR-TERM YEAR 2012 CUMULATIVE WITH PROJECT TRAFFIC VOLUMES  
WEEKDAY AM PEAK HOUR  
PONTE VISTA AT SAN PEDRO PROJECT

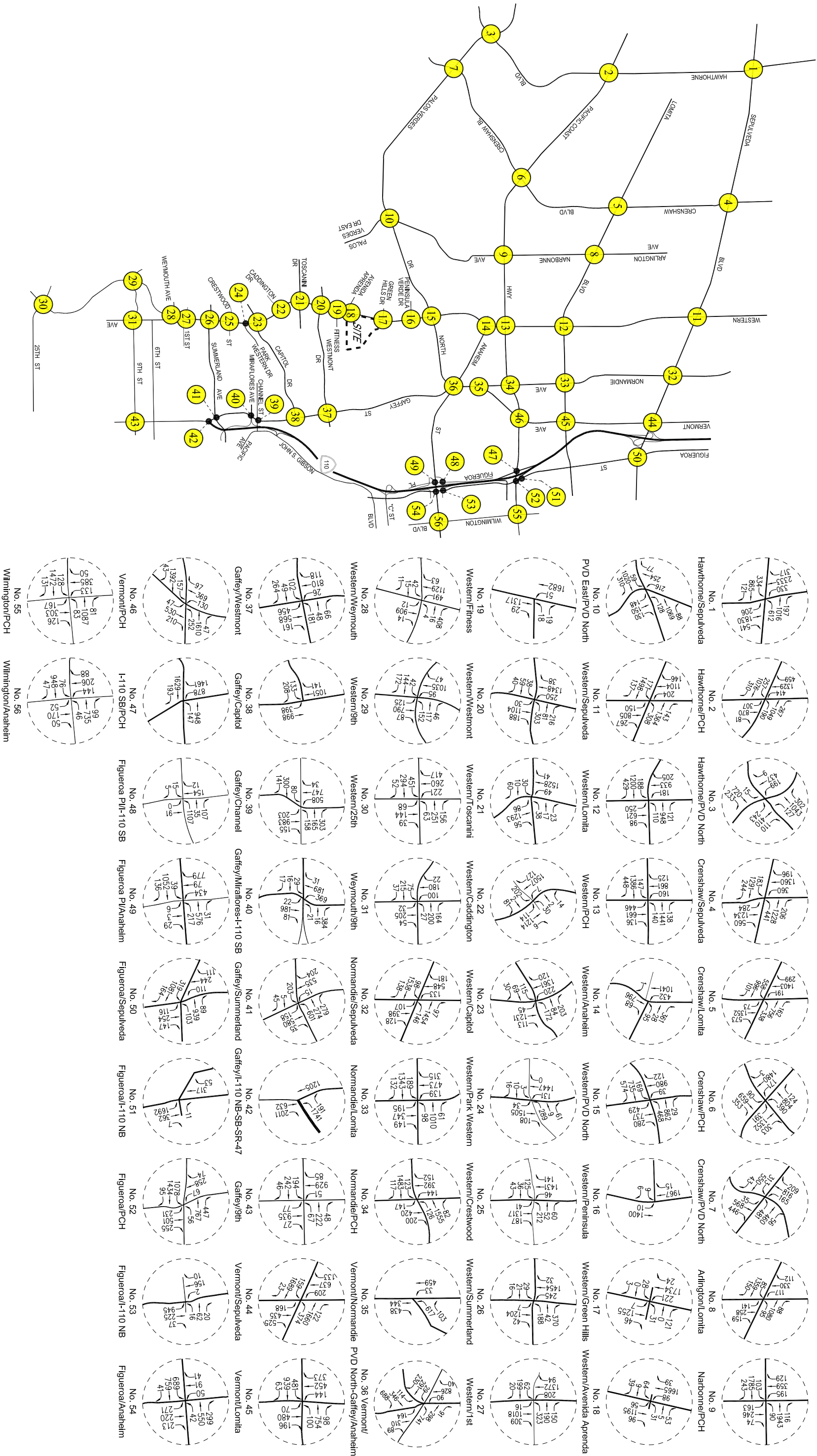


FIGURE 9-8

NOT TO SCALE

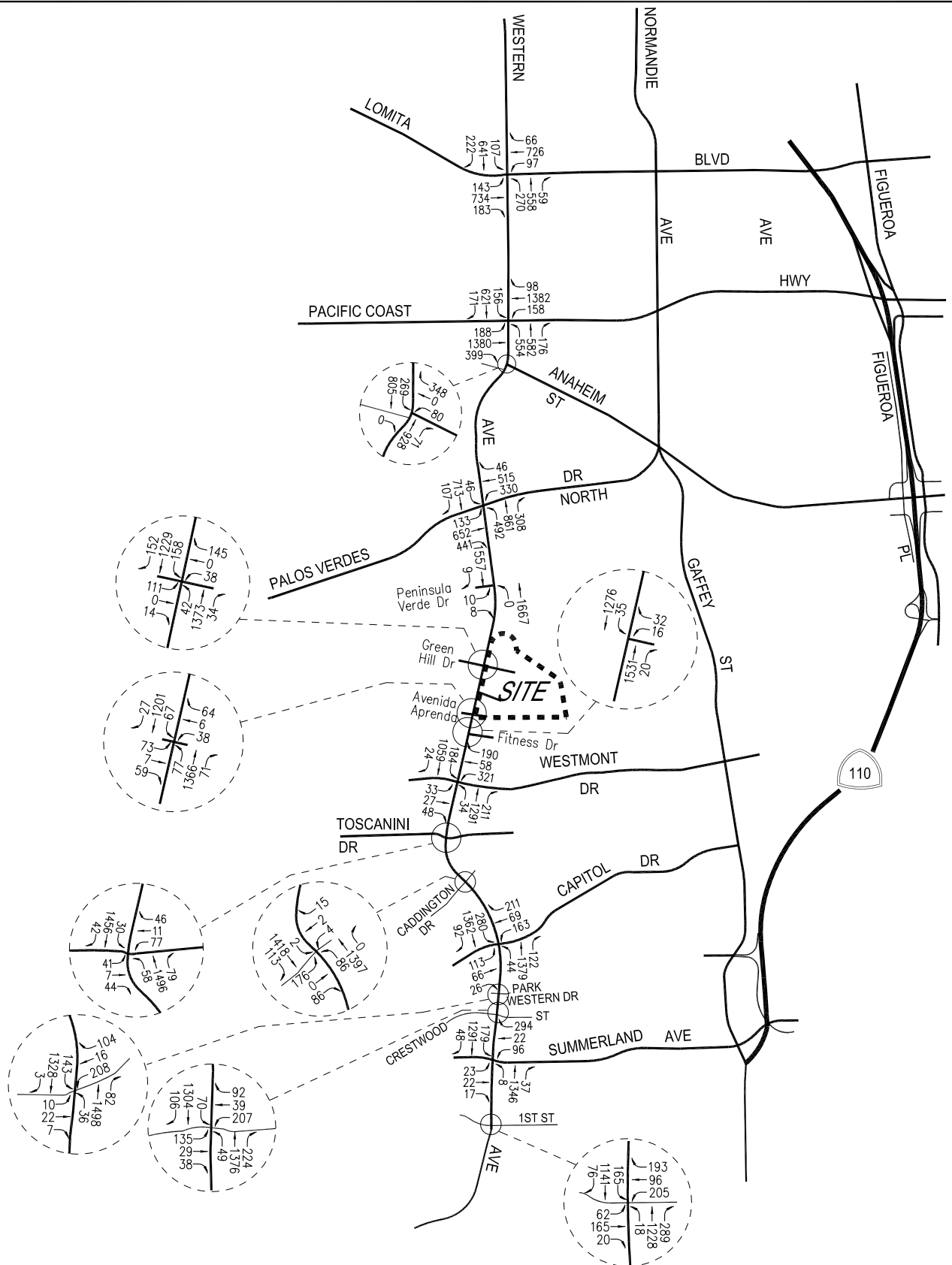
LINSCOTT, LAW & GREENSPAN, engineers

NEAR-TERM YEAR 2012 CUMULATIVE WITH PROJECT TRAFFIC VOLUMES

WEEKDAY PM PEAK HOUR

PONTE VISTA AT SAN PEDRO PROJECT

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NOT TO SCALE

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**FIGURE 9-9**  
**NEAR-TERM YEAR 2012 CUMULATIVE WITH PROJECT**  
**TRAFFIC VOLUMES**  
**SATURDAY MID-DAY PEAK HOUR**  
**PONTE VISTA AT SAN PEDRO PROJECT**



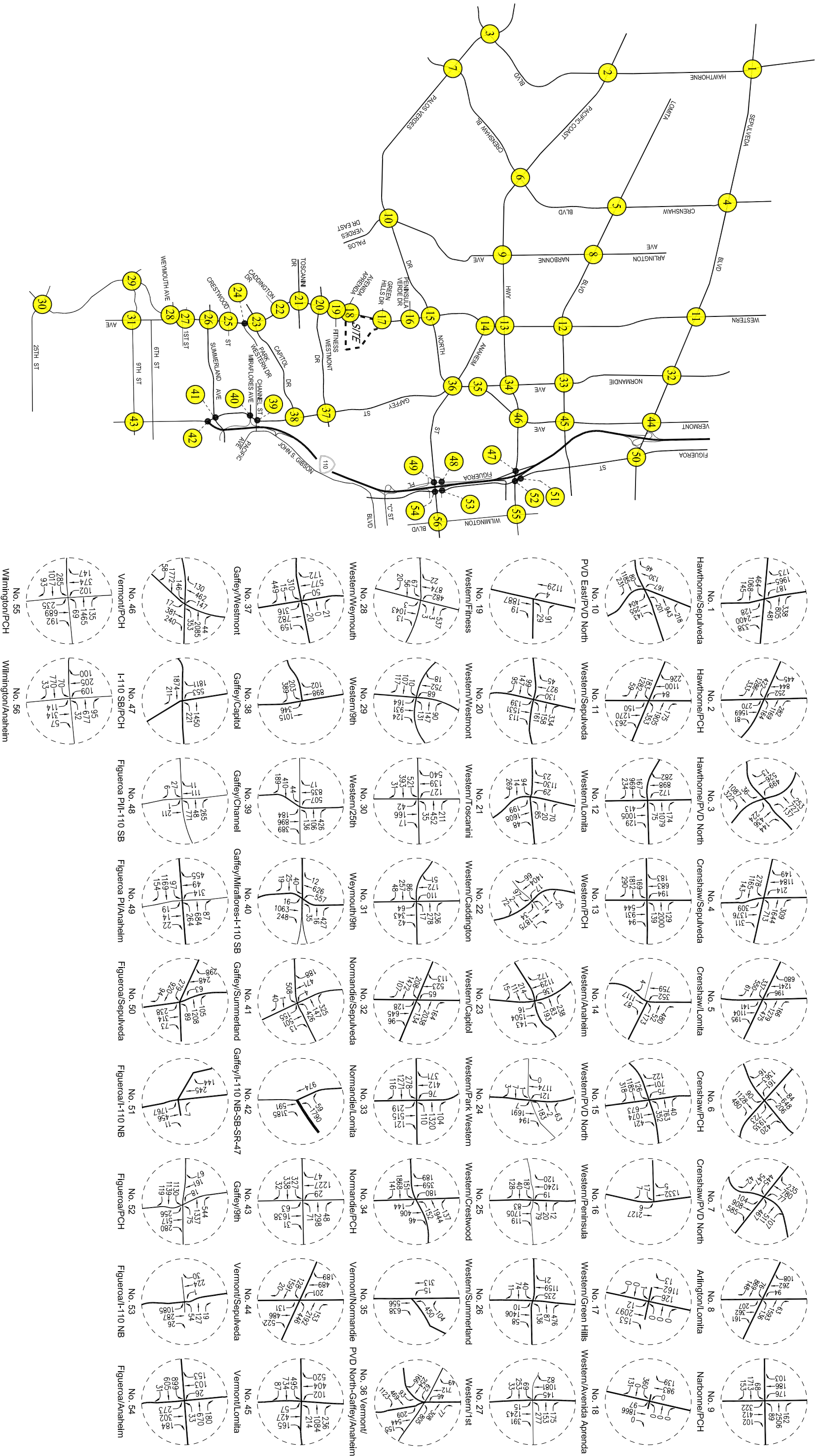


FIGURE 9-10

FUTURE YEAR 2017 CUMULATIVE TRAFFIC VOLUMES

WEEKDAY AM PEAK HOUR

PONTE VISTA AT SAN PEDRO PROJECT



NOT TO SCALE

LINSCOTT, LAW & GREENSPAN, engineers

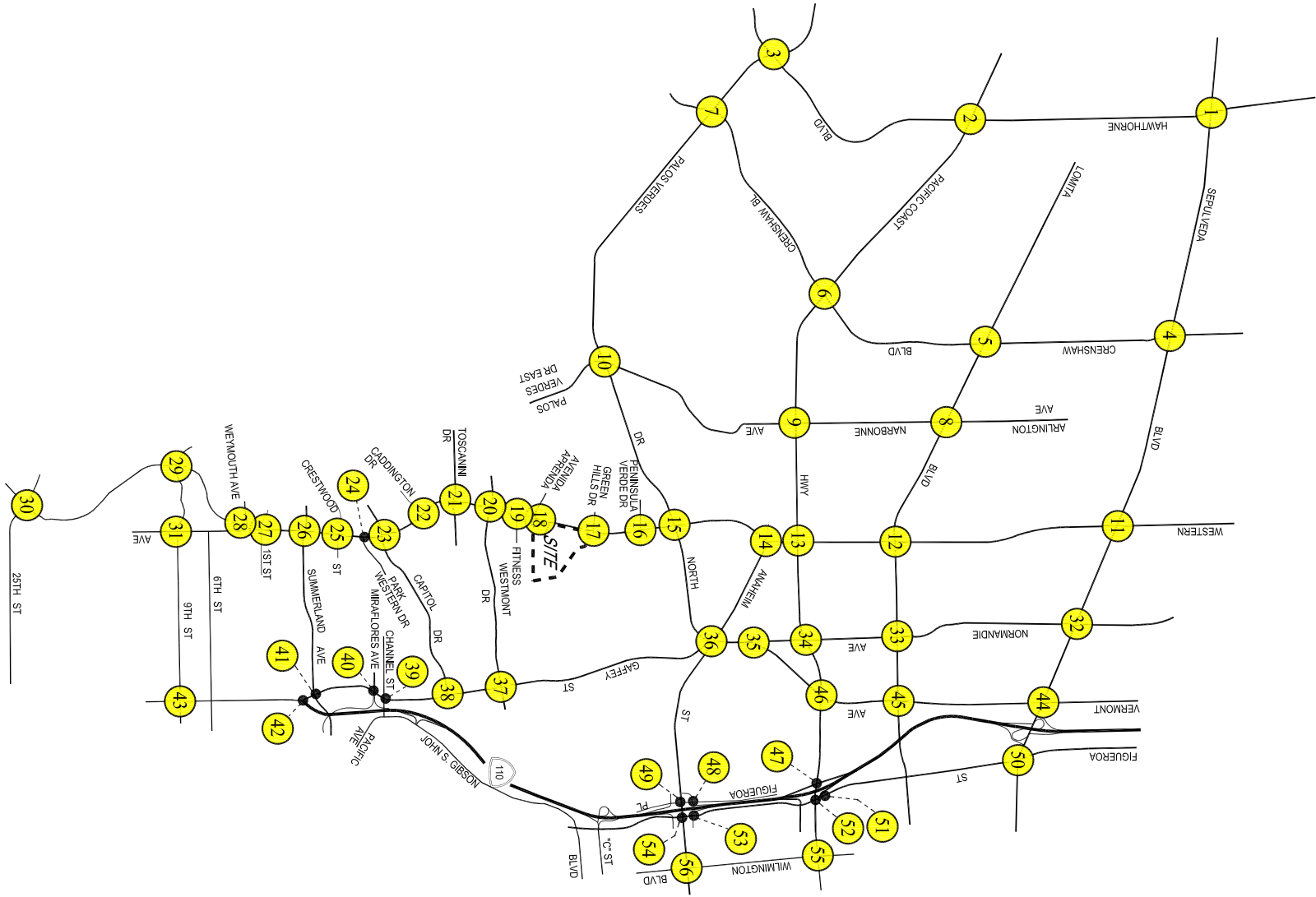


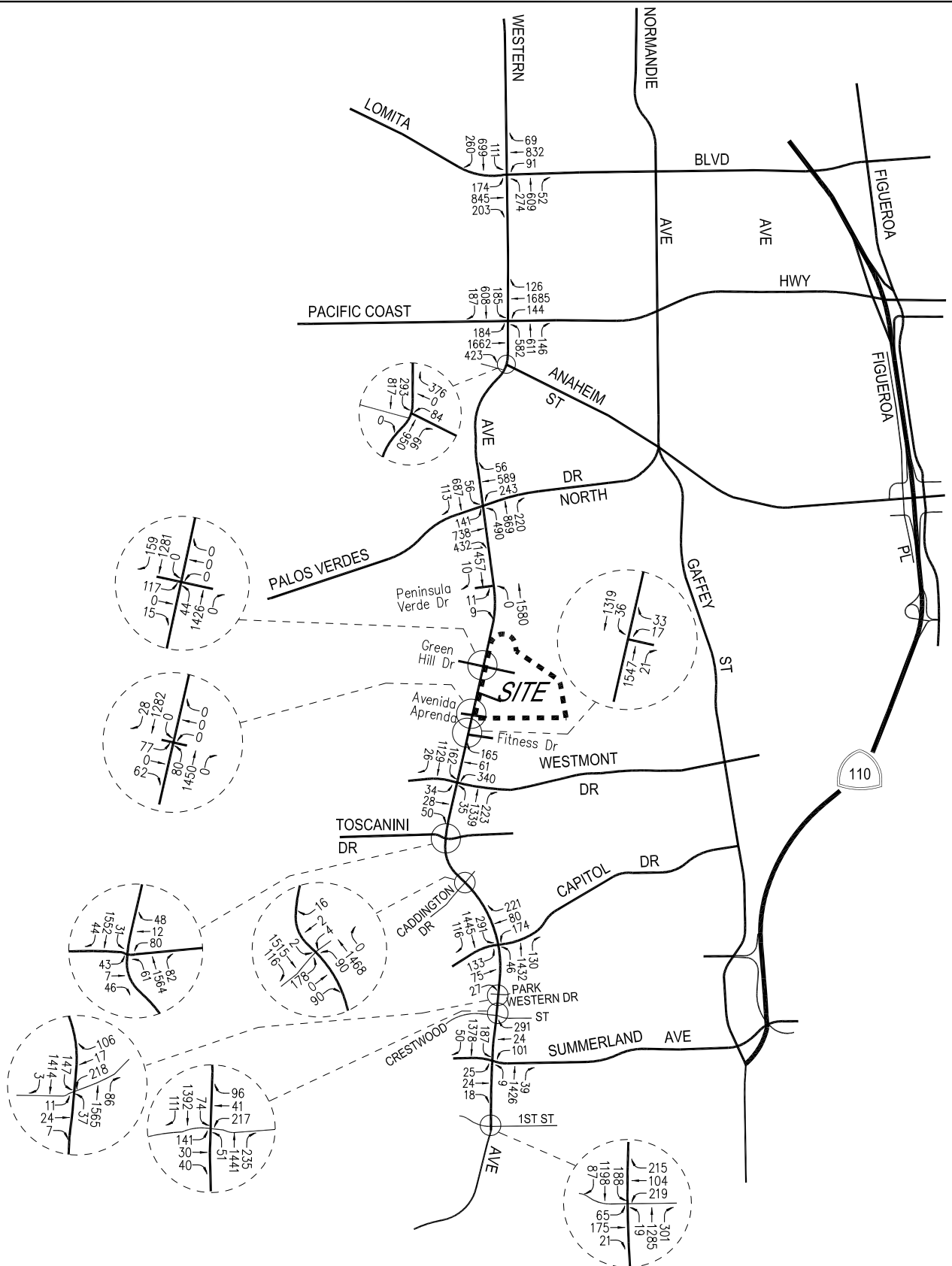
FIGURE 9-11

FUTURE YEAR 2017 CUMULATIVE TRAFFIC VOLUMES  
WEEKDAY PM PEAK HOUR  
PONTE VISTA AT SAN PEDRO PROJECT

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LINSOTT, LAW & GREENSPAN, engineers



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**FIGURE 9-12**  
**FUTURE YEAR 2017 CUMULATIVE**  
**TRAFFIC VOLUMES**  
**SATURDAY MID-DAY PEAK HOUR**  
**PONTE VISTA AT SAN PEDRO PROJECT**

### 9.3.2 Future Cumulative With Project Conditions

As previously noted (refer to Subsections 2.4, 3.2 and 7.2), vehicular access to the Mary Star High School campus through the project site via the Western Avenue intersection at Avenida Aprenda is planned as part of the proposed project as a public benefit. Parents and students will access (i.e., ingress only) the campus via the Western Avenue/Avenida Aprenda intersection and continue to exit the campus via Taper Avenue. Accordingly, the localized inbound trips associated with Mary Star High School were redistributed to the Avenida Aprenda intersection and are included in project traffic volumes.

As shown in column [4] of *Table 9-2*, application of the City's threshold criteria to the "With Proposed Project" scenario indicates that the proposed project is expected to create a significant impact at 20 of the 56 study intersections during the weekday AM peak hour, weekday PM peak hour and/or the Saturday mid-day peak hour. As indicated in *Table 9-2*, incremental but not significant impacts are noted at the remaining study intersections. The future cumulative with project (existing, ambient growth, related projects and project) traffic volumes at the study intersections during the weekday AM peak hour, weekday PM peak hour and Saturday mid-day peak hour are provided in *Figures 9-13, 9-14 and 9-15*, respectively.

### 9.4 Summary of Impacted Intersections by Analysis Scenario

A summary of impacted intersections by analysis scenario (i.e., Existing With Project, Near-Term Cumulative With Project, and Future With Project conditions) is presented in *Table 9-3*. As indicated in *Table 9-3* and discussed in Subsection 9.3.2 (Future With Project Conditions), the proposed project is expected to create a significant impact at 20 of the 56 study intersections during the weekday AM peak hour, weekday PM peak hour and/or the Saturday mid-day peak hour in the year 2017 Future With Project conditions. All 16 study intersections forecast to be significantly impacted by the proposed project under the "Existing With Project" scenario are included in the intersections forecast to be significantly impacted in the year 2017 Future With Project conditions based on City of Los Angeles threshold criteria. Thus, the Existing With Project analysis did not result in the identification of any impacts that were not previously disclosed in Subsection 9.3.2 herein. All 16 study intersections forecast to be significantly impacted by the proposed project under the "Near-Term Cumulative With Project" scenario also are included in the intersections forecast to be significantly impacted in the year 2017 Future With Project conditions based on City of Los Angeles threshold criteria. In summary, the Near-Term With Project analysis did not result in the identification of any impacts that were not previously disclosed in Subsection 9.3.2 herein.

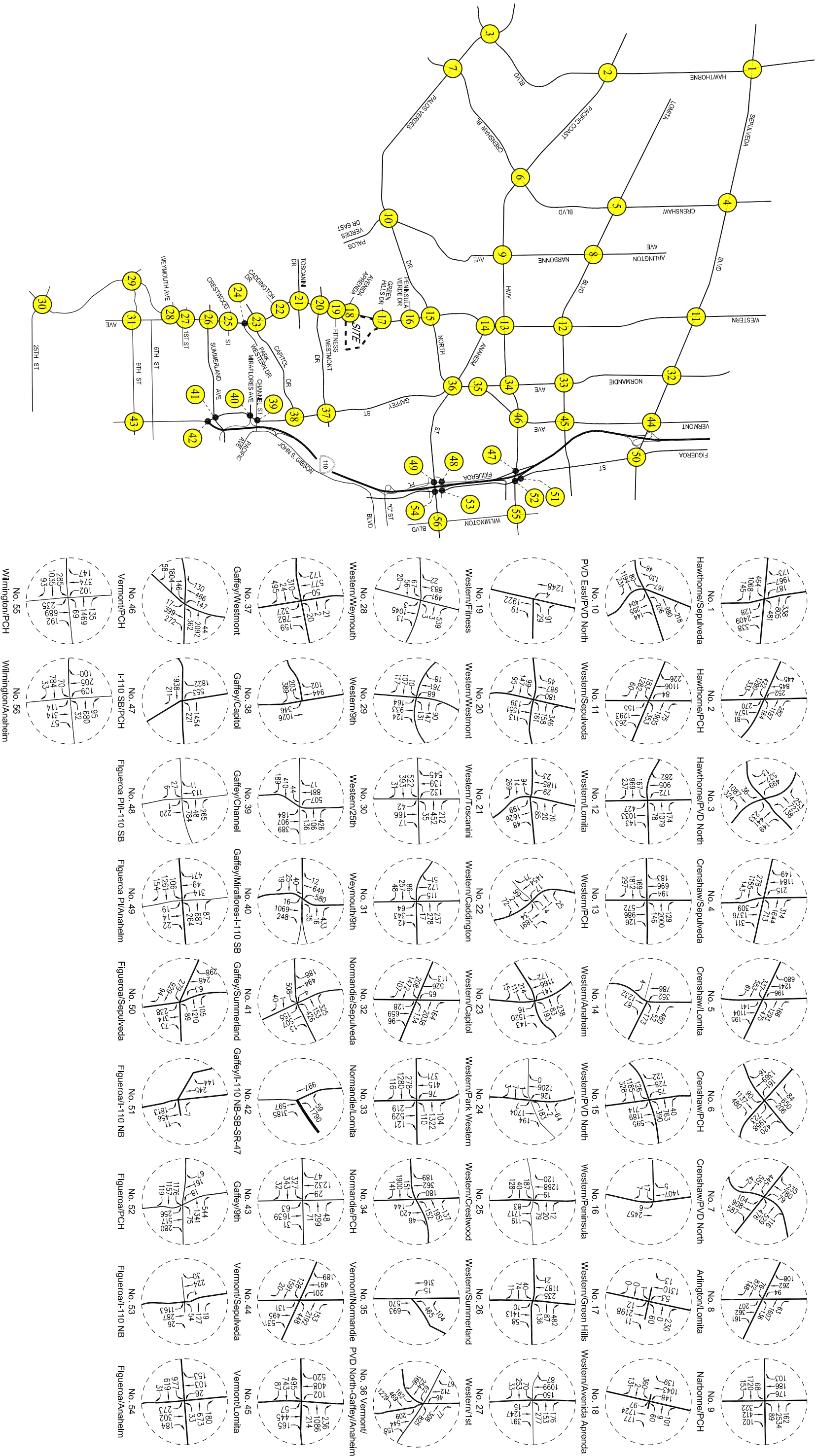


FIGURE 9-13

NOT TO SCALE  
LINSOTT, LAW & GREENSPAN, engineers

WEEKDAY AM PEAK HOUR  
PONTE VISTA AT SAN PEDRO PROJECT

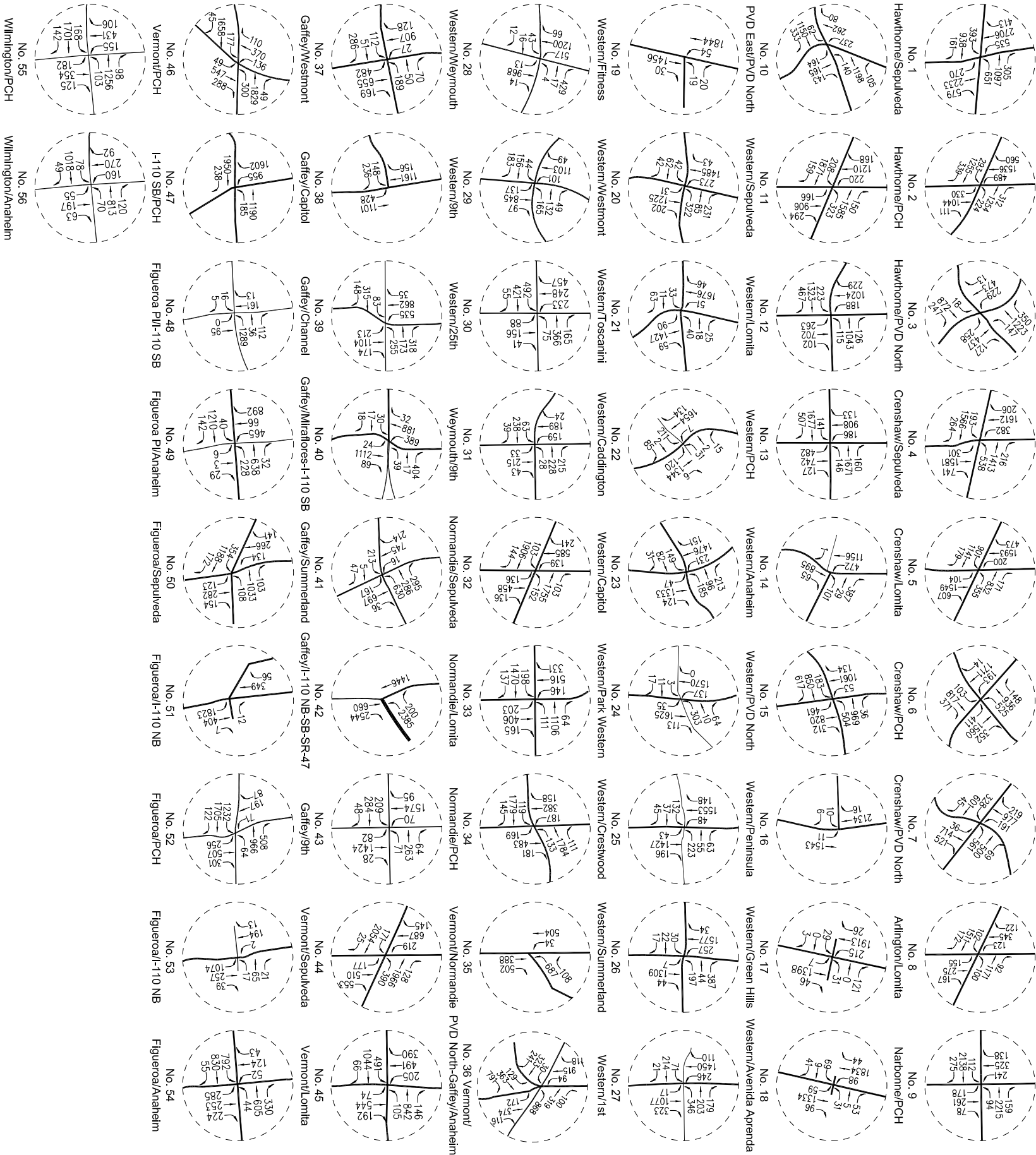
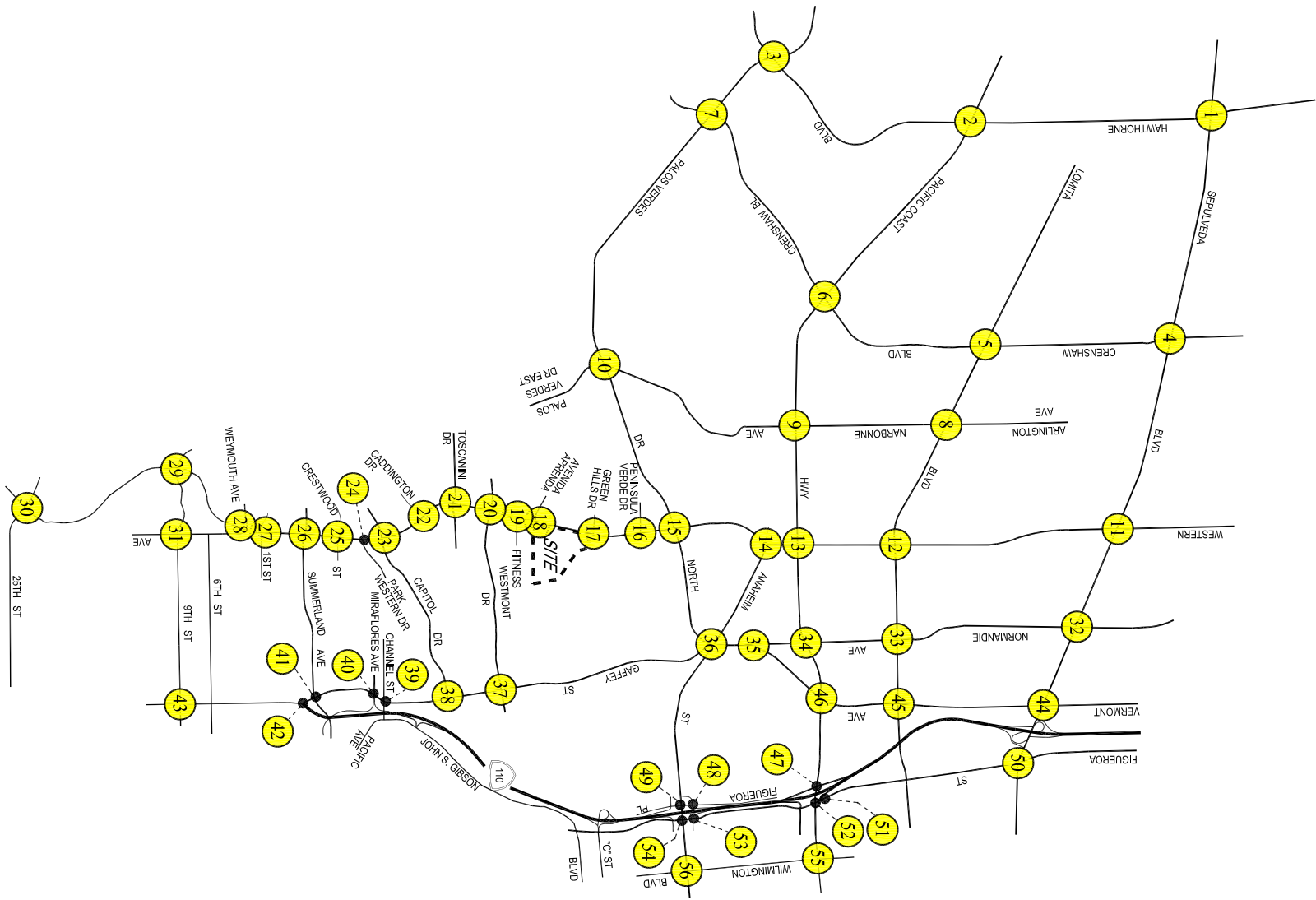
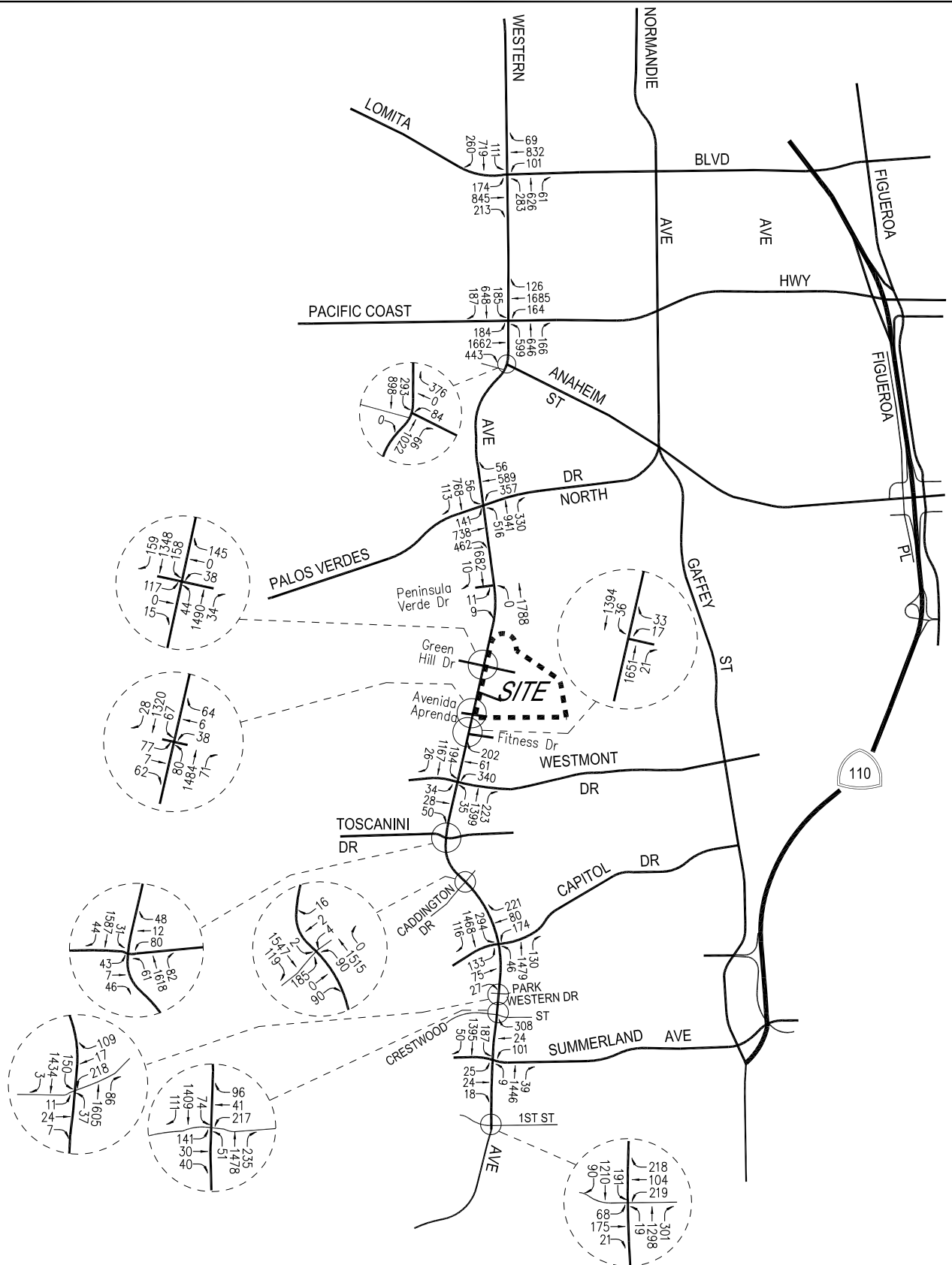


FIGURE 9-14

NOT TO SCALE  
LINSOTT, LAW & GREENSPAN, engineers

FUTURE YEAR 2017 CUMULATIVE WITH PROJECT TRAFFIC VOLUMES  
WEEKDAY PM PEAK HOUR  
PONTE VISTA AT SAN PEDRO PROJECT

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NOT TO SCALE

**FIGURE 9-15**  
**FUTURE YEAR 2017 CUMULATIVE WITH PROJECT**  
**TRAFFIC VOLUMES**  
**SATURDAY MID-DAY PEAK HOUR**  
**PONTE VISTA AT SAN PEDRO PROJECT**

LINSCOTT, LAW & GREENSPAN, engineers

Table 9-3  
SUMMARY OF IMPACTED INTERSECTIONS BY ANALYSIS SCENARIO [1]

NO.	INTERSECTION	PEAK HOUR	YEAR 2010 EXISTING WITH PROJECT CONDITIONS	YEAR 2012 NEAR-TERM WITH PROJECT CONDITIONS	YEAR 2017 FUTURE WITH PROJECT CONDITIONS
6	Crenshaw Boulevard/ Pacific Coast Highway	PM	----	----	YES
7	Crenshaw Boulevard/ Palos Verdes Drive North	PM	YES	YES	YES
12	Western Avenue/ Lomita Boulevard	PM	YES	YES	YES
13	Western Avenue/ Pacific Coast Highway	AM PM SAT	YES YES YES	YES YES YES	YES YES YES
15	Western Avenue/ Palos Verdes Drive North	AM PM SAT	YES YES YES	YES YES YES	YES YES YES
16	Western Avenue/ Peninsula Verde Drive	AM PM SAT	YES YES ----	YES ---- ----	YES YES YES
19	Western Avenue/ Fitness Drive	SAT	----	----	YES
20	Western Avenue/ Westmont Drive	AM PM SAT	YES YES YES	YES YES YES	YES YES YES
23	Western Avenue/ Capitol Drive	AM PM SAT	---- ---- ----	---- ---- ----	YES YES YES
26	Western Avenue/ Summerland Avenue	PM	----	----	YES
36	Vermont Avenue-Palos Verdes Drive N.- Gaffey Street/Anaheim Street	PM	YES	YES	YES

[1] Based on City of Los Angeles analysis methodology and threshold criteria.

Table 9-3 (Continued)  
SUMMARY OF IMPACTED INTERSECTIONS BY ANALYSIS SCENARIO [1]

NO.	INTERSECTION	PEAK HOUR	YEAR 2010 EXISTING WITH PROJECT CONDITIONS	YEAR 2012 NEAR-TERM WITH PROJECT CONDITIONS	YEAR 2017 FUTURE WITH PROJECT CONDITIONS
37	Gaffey Street/ Westmont Drive	PM	YES	YES	YES
41	Gaffey Street/ Summerland Avenue	AM PM	YES YES	---- YES	YES YES
44	Vermont Avenue/ Sepulveda Boulevard	PM	YES	----	YES
46	Vermont Avenue/ Pacific Coast Highway	AM PM	YES ----	YES YES	YES YES
49	Figueroa Place/ Anaheim Street	AM PM	YES YES	YES YES	YES YES
51	Figueroa Street/I-110 NB on-ramp (north of PCH)	AM PM	YES ----	YES YES	YES YES
52	Figueroa Street/ Pacific Coast Highway	AM PM	YES ----	YES YES	YES YES
53	Figueroa Street/I-110 NB on-ramp (north of Anaheim Street)	AM PM	YES YES	YES YES	YES YES
54	Figueroa Street/ Anaheim Street	AM PM	YES YES	YES YES	YES YES

[1] Based on City of Los Angeles analysis methodology and threshold criteria.



## 10.0 CITIES OF TORRANCE, LOMITA, CARSON, AND RANCHO PALOS VERDES, TRAFFIC ANALYSIS

The Existing and Near-Term conditions traffic impact analysis prepared for those study intersections located in the cities of Torrance, Lomita, Carson, and Rancho Palos Verdes using the ICU methodology (as compared to the CMA methodology for LADOT) and application of the traffic impact significance thresholds for each respective jurisdiction is provided in **Table 10-1**. A description of the ICU method and corresponding Level of Service is provided in **Appendix D**. Refer to Subsection 8.2 herein for a discussion and comparison of the significance thresholds used by the City of Los Angeles (the lead agency), as well as the cities of Torrance, Lomita, Carson, and Rancho Palos Verdes. The Existing and Near-Term conditions ICU data worksheets for the analyzed intersections for these nearby jurisdictions are contained in *Appendix D*. The Future conditions traffic impact analysis prepared for those study intersections located in the cities of Torrance, Lomita, Carson, and Rancho Palos Verdes using the ICU methodology (as compared to the CMA methodology for LADOT) and application of the traffic impact significance thresholds for each respective jurisdiction is provided in **Table 10-2**. The Future conditions ICU data worksheets for the analyzed intersections for these nearby jurisdictions are contained in *Appendix D*.

### 10.1 Existing Conditions

#### 10.1.1 Existing Conditions

As indicated in column [1] of *Table 10-1*, 17 of the 21 study intersections located in the cities of Torrance, Lomita, Carson, and Rancho Palos Verdes are operating at LOS D or better during the weekday AM peak hour, weekday PM peak hour and/or the Saturday mid-day peak hour under existing conditions. The remaining study intersections located in the cities of Torrance, Lomita, Carson, and Rancho Palos Verdes are operating at LOS E or worse during the weekday AM peak hour, weekday PM peak hour and/or the Saturday mid-day peak hour. As previously mentioned, the existing traffic volumes at the study intersections during the weekday AM peak hour, weekday PM peak hour and Saturday mid-day peak hour are provided in *Figures 5-1, 5-2 and 5-3*, respectively.

#### 10.1.2 Existing With Project Conditions

As shown in column [2] of *Table 10-1*, application of the significant impact threshold criteria for each City to the “Existing With Project” scenario indicates that the proposed project is expected to create a significant impact at three study intersections (one intersection in the City of Lomita and two intersections in the City of Rancho Palos Verdes) during the weekday AM peak hour, weekday PM peak hour and/or the Saturday mid-day peak hour. The study intersections forecast to be significantly impacted by the proposed project for these nearby jurisdictions are included in the intersections forecast to be significantly impacted based on City of Los Angeles threshold criteria. As indicated in *Table 10-1*, incremental but not significant impacts are noted at the remaining study intersections. As previously mentioned, the existing with project (existing plus project) traffic volumes at the study intersections during the weekday AM peak hour, weekday PM peak hour and Saturday mid-day peak hour are provided in *Figures 9-1, 9-2 and 9-3*, respectively.

Table 10-1

**SUMMARY OF VOLUME TO CAPACITY RATIOS  
AND LEVELS OF SERVICE  
WEEKDAY AM AND PM AND WEEKEND PEAK HOURS  
EXISTING AND NEAR-TERM CONDITIONS  
CITIES OF TORRANCE, LOMITA, CARSON, RANCHO PALOS VERDES**

NO.	INTERSECTION	PEAK HOUR	[1]			[2]			[3]			[4]			[5]			[6]		
			YEAR 2010 EXISTING V/C or Delay	LOS	W/PROJECT V/C or Delay	CHANGE V/C Delay	MITL- GATED	YEAR 2010 W/PROJECT V/C or Delay	CHANGE V/C Delay	MITL- GATED	YEAR 2012 NEAR-TERM BASELINE V/C or Delay	LOS	YEAR 2012 W/PROJECT V/C or Delay	CHANGE SIGNIF. V/C IMPACT Delay	YEAR 2012 W/PROJECT MITIGATION V/C or Delay	CHANGE V/C Delay	MITL- GATED			
City of Torrance																				
1	Hawthorne Boulevard/ Sepulveda Boulevard	AM PM	0.749 0.854	C D	0.750 0.854	C D	0.001 0.000	NO NO	0.001 0.000	--- ---	0.764 0.871	C D	0.766 0.871	C D	0.002 0.000	NO NO	0.766 0.871	C D	0.002 0.000	--- ---
2	Hawthorne Boulevard/ Pacific Coast Highway	AM PM	0.832 0.808	D D	0.836 0.810	D D	0.004 0.002	NO NO	0.004 0.002	--- ---	0.851 0.826	D D	0.856 0.828	D D	0.005 0.002	NO NO	0.856 0.828	D D	0.005 0.002	--- ---
4	Crenshaw Boulevard/ Sepulveda Boulevard	AM PM	0.790 0.978	C E	0.790 0.979	C E	0.000 0.001	NO NO	0.000 0.001	--- ---	0.805 0.995	D E	0.805 0.997	D E	0.000 0.002	NO NO	0.805 0.997	D E	0.000 0.002	--- ---
5	Crenshaw Boulevard/ Lomita Boulevard	AM PM	0.831 0.912	D E	0.836 0.914	D E	0.005 0.002	NO NO	0.005 0.002	--- ---	0.846 0.928	D E	0.850 0.931	D E	0.004 0.003	NO NO	0.850 0.931	D E	0.004 0.003	--- ---
6	Crenshaw Boulevard/ Pacific Coast Highway	AM PM	0.993 1.035	E F	0.995 1.042	E F	0.002 0.007	NO NO	0.002 0.007	--- ---	1.013 1.056	F F	1.015 1.063	F F	0.002 0.007	NO NO	1.015 1.063	F F	0.002 0.007	--- ---
11	Western Avenue/ Sepulveda Boulevard [d]	AM PM	0.890 0.963	D E	0.895 0.967	D E	0.005 0.004	NO NO	0.005 0.004	--- ---	0.906 0.980	E E	0.911 0.987	E E	0.005 0.007	NO NO	0.911 0.987	E E	0.005 0.007	--- ---
City of Lomita																				
8	Arlington Avenue/ Lomita Boulevard	AM PM	0.868 0.903	D E	0.872 0.907	D E	0.004 0.004	NO NO	0.004 0.004	--- ---	0.883 0.921	D E	0.887 0.925	D E	0.004 0.004	NO NO	0.887 0.925	D E	0.004 0.004	--- ---
9	Narbonne Avenue/ Pacific Coast Highway	AM PM	0.773 0.714	C C	0.778 0.717	C C	0.005 0.003	NO NO	0.005 0.003	--- ---	0.811 0.745	D C	0.816 0.748	D C	0.005 0.003	NO NO	0.816 0.748	D C	0.005 0.003	--- ---
15	Western Avenue/ Palos Verdes Drive North	AM PM SAT	0.864 0.817 0.645	D D B	0.978 0.975 0.750	E E C	0.114 0.158 0.105	YES YES NO	-0.071 0.029 0.015	YES YES ---	0.881 0.839 0.664	D D B	0.995 0.996 0.769	E E C	0.114 0.157 0.105	YES YES NO	0.812 0.866 0.678	D D B	-0.069 0.027 0.014	YES YES ---
City of Carson																				
50	Figueroa Street/ Sepulveda Boulevard	AM PM	0.886 0.771	D C	0.887 0.774	D C	0.001 0.003	NO NO	0.001 0.003	--- ---	0.902 0.784	E C	0.903 0.787	E C	0.001 0.003	NO NO	0.903 0.787	E C	0.001 0.003	--- ---

Table 10-1 (Continued)

SUMMARY OF VOLUME TO CAPACITY RATIOS  
AND LEVELS OF SERVICEWEEKDAY AM AND PM AND WEEKEND PEAK HOURS  
EXISTING AND NEAR-TERM CONDITIONS

## CITIES OF TORRANCE, LOMITA, CARSON, RANCHO PALOS VERDES

NO.	INTERSECTION	PEAK HOUR	[1]		[2]		[3]		[4]		[5]		[6]									
			YEAR 2010 EXISTING V/C or Delay	LOS	YEAR 2010 EXISTING W/PROJECT V/C or Delay	LOS	CHANGE V/C or Delay	MITI- GATED	YEAR 2010 W/PROJECT MITIGATION V/C or Delay	LOS	YEAR 2012 NEAR-TERM BASELINE V/C or Delay	LOS	YEAR 2012 W/PROJECT MITIGATION V/C or Delay	LOS	CHANGE V/C or Delay	MITI- GATED						
City of Rancho Palos Verdes																						
16	Western Avenue/ Peninsula Verde Drive	AM	21.1	C	23.8	C	2.7	NO	0.815	D	---	---	21.7	C	24.3	C	2.6	NO	0.827	D	---	---
		PM	26.5	D	36.5	E	10.0	YES	0.725	C	---	YES	27.6	D	38.0	E	10.4	YES	0.735	C	---	YES
		SAT	19.9	C	24.2	C	4.3	NO	0.623	B	---	---	20.4	C	24.9	C	4.5	NO	0.632	B	---	---
17	Western Avenue/ Green Hills Drive	AM	0.714	C	0.559	A	-0.155	NO	0.559	A	-0.155	---	0.729	C	0.607	B	-0.122	NO	0.607	B	-0.122	---
		PM	0.534	A	0.584	A	0.050	NO	0.584	A	0.050	---	0.544	A	0.593	A	0.049	NO	0.593	A	0.049	---
		SAT	0.505	A	0.631	B	0.126	NO	0.550	A	0.045	---	0.515	A	0.560	A	0.045	NO	0.560	A	0.045	---
18	Western Avenue/ Avenida Arce/ Southernly Project Access	AM	0.805	D	0.770	C	-0.035	NO	0.770	C	-0.035	---	0.821	D	0.783	C	-0.038	NO	0.783	C	-0.038	---
		PM	0.610	B	0.645	B	0.035	NO	0.645	B	0.035	---	0.622	B	0.657	B	0.035	NO	0.657	B	0.035	---
		SAT	0.493	A	0.592	A	0.099	NO	0.533	A	0.040	---	0.502	A	0.542	A	0.040	NO	0.542	A	0.040	---
19	Western Avenue/ Fitness Drive	AM	33.7	D	35.9	E	2.2	YES	0.701	C	---	YES	36.6	E	39.2	E	2.6	YES	0.713	C	---	YES
		PM	22.6	C	25.7	D	3.1	NO	0.628	B	---	---	23.3	C	26.3	D	3.0	YES	0.638	B	---	YES
		SAT	22.3	C	24.6	C	2.3	NO	0.617	B	---	---	22.8	C	25.3	D	2.5	NO	0.626	B	---	---
20	Western Avenue/ Westmont Drive	AM	0.820	D	0.858	D	0.038	NO	0.858	D	0.038	---	0.836	D	0.874	D	0.038	NO	0.874	D	0.038	---
		PM	0.777	C	0.819	D	0.042	NO	0.819	D	0.042	---	0.792	C	0.835	D	0.043	NO	0.835	D	0.043	---
		SAT	0.798	C	0.836	D	0.038	NO	0.836	D	0.038	---	0.813	D	0.852	D	0.039	NO	0.852	D	0.039	---
21	Western Avenue/ Toscamini Drive	AM	0.748	C	0.754	C	0.006	NO	0.754	C	0.006	---	0.763	C	0.769	C	0.006	NO	0.769	C	0.006	---
		PM	0.609	B	0.618	B	0.009	NO	0.618	B	0.009	---	0.621	B	0.630	B	0.009	NO	0.630	B	0.009	---
		SAT	0.591	A	0.608	B	0.017	NO	0.608	B	0.017	---	0.603	B	0.620	B	0.017	NO	0.620	B	0.017	---
22	Western Avenue/ Caddington Drive	AM	0.647	B	0.653	B	0.006	NO	0.653	B	0.006	---	0.660	B	0.666	B	0.006	NO	0.666	B	0.006	---
		PM	0.749	C	0.763	C	0.014	NO	0.763	C	0.014	---	0.764	C	0.778	C	0.014	NO	0.778	C	0.014	---
		SAT	0.670	B	0.685	B	0.015	NO	0.685	B	0.015	---	0.683	B	0.698	B	0.015	NO	0.698	B	0.015	---
23	Western Avenue/ Capitol Drive	AM	0.840	D	0.848	D	0.008	NO	0.848	D	0.008	---	0.857	D	0.865	D	0.008	NO	0.865	D	0.008	---
		PM	0.763	C	0.784	C	0.021	NO	0.784	C	0.021	---	0.778	C	0.799	C	0.021	NO	0.799	C	0.021	---
		SAT	0.841	D	0.858	D	0.017	NO	0.858	D	0.017	---	0.858	D	0.875	D	0.017	NO	0.875	D	0.017	---
24	Western Avenue/ Park Western Drive	AM	0.719	C	0.726	C	0.007	NO	0.726	C	0.007	---	0.733	C	0.740	C	0.007	NO	0.740	C	0.007	---
		PM	0.751	C	0.770	C	0.019	NO	0.770	C	0.019	---	0.766	C	0.785	C	0.019	NO	0.785	C	0.019	---
		SAT	0.709	C	0.723	C	0.014	NO	0.723	C	0.014	---	0.723	C	0.738	C	0.015	NO	0.738	C	0.015	---
25	Western Avenue/ Crestwood Street	AM	0.782	C	0.785	C	0.003	NO	0.785	C	0.003	---	0.797	C	0.801	D	0.004	NO	0.801	D	0.004	---
		PM	0.757	C	0.762	C	0.005	NO	0.762	C	0.005	---	0.772	C	0.777	C	0.005	NO	0.777	C	0.005	---
		SAT	0.772	C	0.784	C	0.012	NO	0.784	C	0.012	---	0.788	C	0.799	C	0.011	NO	0.799	C	0.011	---
26	Western Avenue/ Summerland Avenue	AM	0.814	D	0.820	D	0.006	NO	0.820	D	0.006	---	0.830	D	0.836	D	0.006	NO	0.836	D	0.006	---
		PM	0.689	B	0.712	C	0.023	NO	0.712	C	0.023	---	0.703	C	0.725	C	0.022	NO	0.725	C	0.022	---
		SAT	0.670	B	0.687	B	0.017	NO	0.687	B	0.017	---	0.683	B	0.700	B	0.017	NO	0.700	B	0.017	---

Table 10-2  
SUMMARY OF VOLUME TO CAPACITY RATIOS  
AND LEVELS OF SERVICE  
WEEKDAY AM AND PM PEAK HOURS AND SATURDAY PEAK HOUR  
CITIES OF TORRANCE, LOMITA, CARSON, AND RANCHO PALOS VERDES ANALYSIS  
FUTURE CONDITIONS

NO.	INTERSECTION	PEAK PEAK HOUR	[1] YEAR 2010 EXISTING		[2] YEAR 2017 W/ AMBIENT GROWTH		[3] YEAR 2017 FUTURE PRE-PROJECT		[4] YEAR 2017 FUTURE W/PROJECT		[5] YEAR 2017 W/PROJECT MITIGATION		[5] CHANGE V/C MITI- GATED			
			V/C or Delay	LOS	V/C or Delay	LOS	V/C or Delay	LOS	V/C or Delay	LOS	CHANGE V/C Delay	SIGNIF. IMPACT	V/C or Delay	LOS	CHANGE V/C Delay	MITI- GATED
City of Torrance																
1	Hawthorne Boulevard/ Sepulveda Boulevard	AM PM	0.749 0.854	C D	0.801 0.913	D E	0.860 1.003	D F	0.861 1.003	D F	0.001 0.000	NO NO	0.861 1.003	D F	0.001 0.000	--- ---
2	Hawthorne Boulevard/ Pacific Coast Highway	AM PM	0.832 0.808	D D	0.890 0.865	D D	0.997 0.971	E E	1.002 0.973	F E	0.005 0.002	NO NO	1.002 0.973	F E	0.005 0.002	--- ---
4	Crenshaw Boulevard/ Sepulveda Boulevard	AM PM	0.790 0.978	C E	0.838 1.039	D F	0.944 1.207	E F	0.944 1.209	E F	0.000 0.002	NO NO	0.944 1.209	E F	0.000 0.002	--- ---
5	Crenshaw Boulevard/ Lomita Boulevard	AM PM	0.831 0.912	D E	0.883 0.969	D E	1.012 1.119	F F	1.017 1.121	F F	0.005 0.002	NO NO	1.017 1.121	F F	0.005 0.002	--- ---
6	Crenshaw Boulevard/ Pacific Coast Highway	AM PM	0.993 1.035	E F	1.062 1.108	F F	1.111 1.235	F F	1.113 1.242	F F	0.002 0.007	NO NO	1.113 1.242	F F	0.002 0.007	--- ---
11	Western Avenue/ Sepulveda Boulevard [d]	AM PM	0.890 0.963	D E	0.846 0.924	D E	0.919 1.009	E F	0.924 1.016	E F	0.005 0.007	NO NO	0.924 1.016	E F	0.005 0.007	--- ---
City of Lomita																
8	Arlington Avenue/ Lomita Boulevard	AM PM	0.868 0.903	D E	0.921 0.959	E E	0.958 0.996	E E	0.962 1.001	E F	0.004 0.005	NO NO	0.962 1.001	E F	0.004 0.005	--- ---
9	Narbonne Avenue/ Pacific Coast Highway	AM PM	0.773 0.714	C C	0.827 0.764	D C	0.890 0.819	D D	0.896 0.821	D D	0.006 0.002	NO NO	0.896 0.821	D D	0.006 0.002	--- ---
15	Western Avenue/ Palos Verdes Drive North	AM PM SAT	0.864 0.817 0.645	D D B	0.924 0.874 0.690	E D B	0.980 0.917 0.726	E E C	<b>1.094</b> <b>1.074</b> 0.831	<b>F</b> <b>F</b> D	<b>0.114</b> <b>0.157</b> 0.105	<b>YES</b> <b>YES</b> NO	<b>0.896</b> <b>0.934</b> 0.732	<b>D</b> <b>E</b> C	<b>-0.084</b> <b>0.017</b> 0.006	<b>YES</b> <b>YES</b> ---
City of Carson																
50	Figueroa Street/ Sepulveda Boulevard	AM PM	0.886 0.771	D C	0.941 0.818	E D	0.971 0.861	E D	0.971 0.864	E D	0.000 0.003	NO NO	0.971 0.864	E D	0.000 0.003	--- ---
City of Rancho Palos Verdes																
16	Western Avenue/ Peninsula Verde Drive	AM PM SAT	21.1 26.5 19.9	C D C	23.2 30.7 21.7	C D C	25.3 33.5 22.8	D D C	28.7 <b>48.2</b> 28.4	D <b>E</b> D	3.4 <b>14.7</b> 5.6	NO <b>YES</b> NO	0.783 <b>0.689</b> 0.571	C <b>B</b> A	--- --- ---	--- <b>YES</b> ---
17	Western Avenue/ Green Hills Drive	AM PM SAT	0.714 0.534 0.505	C A A	0.756 0.571 0.540	C A A	0.782 0.600 0.560	C A A	0.605 0.650 0.604	B B B	-0.177 0.050 0.044	NO NO NO	0.605 0.650 0.604	B B B	-0.177 0.050 0.044	--- --- ---
18	Western Avenue/ Avenida Aprenda- Southerly Project Access	AM PM SAT	0.805 0.610 0.493	D B A	0.862 0.653 0.527	D B A	0.890 0.683 0.546	D B A	0.834 0.717 0.586	D C A	-0.056 0.034 0.040	NO NO NO	0.834 0.717 0.586	D C A	-0.056 0.034 0.040	--- --- ---
19	Western Avenue/ Fitness Drive	AM PM SAT	33.7 22.6 22.3	D C C	43.2 25.1 24.8	E D C	50.2 27.4 26.2	F D D	<b>54.6</b> 31.6 29.2	<b>F</b> D D	<b>4.4</b> 4.2 3.0	<b>YES</b> NO NO	<b>0.666</b> 0.589 0.566	<b>B</b> A A	--- --- ---	<b>YES</b> --- ---
20	Western Avenue/ Westmont Drive	AM PM SAT	0.820 0.777 0.798	D C C	0.877 0.831 0.853	D D D	0.909 0.866 0.873	E D D	<b>0.946</b> <b>0.909</b> <b>0.911</b>	<b>E</b> <b>E</b> <b>E</b>	<b>0.037</b> <b>0.043</b> <b>0.038</b>	<b>YES</b> <b>YES</b> <b>YES</b>	<b>0.876</b> <b>0.820</b> <b>0.820</b>	<b>D</b> <b>D</b> <b>D</b>	<b>-0.033</b> <b>-0.046</b> <b>-0.053</b>	<b>YES</b> <b>YES</b> <b>YES</b>

Table 10-2 (Continued)  
SUMMARY OF VOLUME TO CAPACITY RATIOS  
AND LEVELS OF SERVICE  
WEEKDAY AM AND PM PEAK HOURS AND SATURDAY PEAK HOUR  
CITIES OF TORRANCE, LOMITA, CARSON, AND RANCHO PALOS VERDES ANALYSIS  
FUTURE CONDITIONS

NO.	INTERSECTION	PEAK HOUR	[1] YEAR 2010 EXISTING		[2] YEAR 2017 W/ AMBIENT GROWTH		[3] YEAR 2017 FUTURE PRE-PROJECT		[4] YEAR 2017 FUTURE W/PROJECT		[5] YEAR 2017 W/PROJECT MITIGATION		[6] CHANGE V/C or Delay		[7] SIGNIF. IMPACT		[8] CHANGE V/C or Delay		[9] MITI- GATED	
			V/C or Delay	LOS	V/C or Delay	LOS	V/C or Delay	LOS	V/C or Delay	LOS	V/C or Delay	LOS	[(4)-(3)]				V/C or Delay	LOS	[(5)-(3)]	
21	Western Avenue/ Toscanini Drive	AM	0.748	C	0.800	C	0.824	D	0.829	D	0.829	D	0.005		NO		0.829	D	0.005	---
		PM	0.609	B	0.651	B	0.677	B	0.686	B	0.686	B	0.009		NO		0.686	B	0.009	---
		SAT	0.591	A	0.632	B	0.651	B	0.665	B	0.665	B	0.014		NO		0.665	B	0.014	---
22	Western Avenue/ Caddington Drive	AM	0.647	B	0.692	B	0.713	C	0.719	C	0.719	C	0.006		NO		0.719	C	0.006	---
		PM	0.749	C	0.801	D	0.824	D	0.839	D	0.839	D	0.015		NO		0.839	D	0.015	---
		SAT	0.670	B	0.717	C	0.736	C	0.751	C	0.751	C	0.015		NO		0.751	C	0.015	---
23	Western Avenue/ Capitol Drive	AM	0.840	D	0.899	D	0.933	E	0.941	E	0.896	D	0.008		NO		0.896	D	-0.037	---
		PM	0.763	C	0.816	D	0.857	D	<b>0.879</b>	<b>D</b>	<b>0.840</b>	<b>D</b>	<b>0.022</b>		<b>YES</b>		<b>0.840</b>	<b>D</b>	<b>-0.017</b>	<b>YES</b>
		SAT	0.841	D	0.900	D	0.925	E	<b>0.942</b>	<b>E</b>	<b>0.901</b>	<b>E</b>	<b>0.017</b>		<b>YES</b>		<b>0.901</b>	<b>E</b>	<b>-0.024</b>	<b>YES</b>
24	Western Avenue/ Park Western Drive	AM	0.719	C	0.769	C	0.786	C	0.793	C	0.793	C	0.007		NO		0.793	C	0.007	---
		PM	0.751	C	0.804	D	0.819	D	0.837	D	0.837	D	0.018		NO		0.837	D	0.018	---
		SAT	0.709	C	0.759	C	0.770	C	0.784	C	0.784	C	0.014		NO		0.784	C	0.014	---
25	Western Avenue/ Crestwood Street	AM	0.782	C	0.836	D	0.853	D	0.857	D	0.857	D	0.004		NO		0.857	D	0.004	---
		PM	0.757	C	0.810	D	0.827	D	0.831	D	0.831	D	0.004		NO		0.831	D	0.004	---
		SAT	0.772	C	0.826	D	0.837	D	0.849	D	0.849	D	0.012		NO		0.849	D	0.012	---
26	Western Avenue/ Summerland Avenue	AM	0.814	D	0.871	D	0.888	D	0.894	D	0.894	D	0.006		NO		0.894	D	0.006	---
		PM	0.689	B	0.665	B	0.752	C	0.774	C	0.774	C	0.022		NO		0.774	C	0.022	---
		SAT	0.670	B	0.638	B	0.728	C	0.744	C	0.744	C	0.016		NO		0.744	C	0.016	---

### 10.1.3 Existing With Ambient Growth Conditions

Growth in traffic due to the combined effects of continuing development, intensification of existing developments and other factors was assumed to be one percent (1.0%) per year through year 2017. This ambient growth incrementally increases the *v/c* ratios at all of the study intersections. As shown in column [2] of *Table 10-2*, 12 of the 21 study intersections located in the cities of Torrance, Lomita, Carson, and Rancho Palos Verdes are expected to continue to operate at LOS D or better during the weekday AM peak hour, weekday PM peak hour and/or the Saturday mid-day peak hour with the addition of ambient growth traffic through the year 2017. The remaining study intersections located in the cities of Torrance, Lomita, Carson, and Rancho Palos Verdes are expected to operate at LOS E or worse during the weekday AM peak hour, weekday PM peak hour and/or the Saturday mid-day peak hour.

## 10.2 Near-Term Conditions

### 10.2.1 Near-Term Cumulative Baseline Conditions

The near-term year 2012 cumulative baseline conditions were forecast based on the addition of traffic generated by the plus completion and occupancy of near-term related projects (i.e., those developments that are currently under construction and expected to be completed in year 2012), as well as the growth in traffic due to the combined effects of continuing development, intensification of existing developments and other factors (i.e., ambient growth). The near-term related projects included in this analysis condition are noted in *Table 6-1* (noted as “NT” in the Project Status column).

As summarized in column [4] of *Table 10-1*, 14 of the 21 study intersections located in the cities of Torrance, Lomita, Carson, and Rancho Palos Verdes are expected to operate at LOS D or better during the weekday AM peak hour, weekday PM peak hour and/or the Saturday mid-day peak hour with the addition of ambient traffic growth and the traffic due to the near-term related projects. The remaining study intersections located in the cities of Torrance, Lomita, Carson, and Rancho Palos Verdes are expected to operate at LOS E or worse during the weekday AM peak hour, weekday PM peak hour and/or the Saturday mid-day peak hour. As previously mentioned, the near-term cumulative baseline (existing, ambient growth, and near-term related projects) traffic volumes at the study intersections during the weekday AM peak hour, weekday PM peak hour and Saturday mid-day peak hour are provided in *Figures 9-4*, *9-5* and *9-6*, respectively.

### 10.2.2 Near-Term Cumulative With Project Conditions

As shown in column [5] of *Table 10-1*, application of the significant impact threshold criteria for each City to the “Near-Term With Project” scenario indicates that the proposed project is expected to create a significant impact at three study intersections (one intersection in the City of Lomita and two intersections in the City of Rancho Palos Verdes) during the weekday AM peak hour, weekday PM peak hour and/or the Saturday mid-day peak hour. The study intersection forecast to be significantly impacted by the proposed project for these nearby jurisdictions are included in the intersections forecast to be significantly impacted based on City of Los Angeles threshold criteria. As indicated in *Table 10-1*, incremental but not significant impacts are noted at the remaining study intersections. As previously mentioned, near-term cumulative with

project (existing, ambient growth, near-term related projects and project) traffic volumes at the study intersections during the weekday AM peak hour, weekday PM peak hour and Saturday mid-day peak hour are provided in *Figures 9-7, 9-8 and 9-9*, respectively.

### 10.3 Future Conditions

#### 10.3.1 Future Pre-Project Conditions

The future year 2017 pre-project conditions were forecast based on the addition of traffic generated by the related projects, as well as the growth in traffic due to the combined effects of continuing development, intensification of existing developments and other factors (i.e., ambient growth). The v/c ratios at all study intersections are incrementally increased with the addition of traffic generated by the related projects listed in *Table 6-1* and growth in ambient traffic.

As shown in column [3] of *Table 10-2*, nine of the 21 study intersections in the located in the cities of Torrance, Lomita, Carson, and Rancho Palos Verdes are expected to operate at LOS D or better during the weekday AM peak hour, weekday PM peak hour and/or the Saturday mid-day peak hour with the addition of ambient traffic growth and the traffic due to the related projects (future pre-project conditions). The remaining study intersections are expected to operate at LOS E or worse during the weekday AM peak hour, weekday PM peak hour and/or the Saturday mid-day peak hour. As previously mentioned, the future pre-project (existing, ambient growth, and related projects) traffic volumes at the study intersections during the weekday AM peak hour, weekday PM peak hour and Saturday mid-day peak hour are provided in *Figures 9-10, 9-11 and 9-12*, respectively.

#### 10.3.2 Future With Project Conditions

As previously noted (refer to Subsections 2.4, 3.2 and 7.2), vehicular access to the Mary Star High School campus through the project site via the Western Avenue intersection at Avenida Aprenda is planned as part of the proposed project as a public benefit. Parents and students will access (i.e., ingress only) the campus via the Western Avenue/Avenida Aprenda intersection and continue to exit the campus via Taper Avenue. If the Ponte Vista at San Pedro project is not approved, then the vehicular access for the Mary Star High School would continue to be provided via the Western Avenue/Green Hills Road intersection. Accordingly, the localized inbound trips associated with Mary Star High School were redistributed to the Avenida Aprenda intersection and are included in project traffic volumes.

As shown in column [4] of *Table 10-2*, application of the significant impact threshold criteria for each City to the “With Proposed Project” scenario indicates that the proposed project is expected to create a significant impact at one study intersection in the City of Lomita and four study intersections in the City of Rancho Palos Verdes during the weekday AM peak hour, weekday PM peak hour and/or the Saturday mid-day peak hour. All five study intersections forecast to be significantly impacted by the proposed project for these nearby jurisdictions are included in the intersections forecast to be significantly impacted based on City of Los Angeles threshold criteria. As indicated in *Table 10-2*, incremental but not significant impacts are noted at the remaining study intersections. As previously mentioned, the future with project (existing, ambient growth, related projects and project) traffic volumes at the study intersections during the



weekday AM peak hour, weekday PM peak hour and Saturday mid-day peak hour are provided in *Figures 9-13, 9-14 and 9-15*, respectively.

## 11.0 CITY OF ROLLING HILLS ESTATES TRAFFIC ANALYSIS

The Existing and Near-Term conditions traffic impact analysis prepared for those study intersections located in the City of Rolling Hills Estates using the ICU methodology (as compared to the CMA methodology for LADOT) and application of the traffic impact significance thresholds for the City of Rolling Hills Estates is provided in **Table 11-1**. A description of the ICU method and corresponding Level of Service is provided in **Appendix E**. Refer to Subsection 8.2 herein for a discussion and comparison of the significance thresholds used by the City of Los Angeles (the lead agency), as well as the City Rolling Hills Estates. The Existing and Near-Term conditions ICU data worksheets for the analyzed intersections for this nearby jurisdiction are contained in **Appendix E**. The Future conditions traffic impact analysis prepared for those study intersections located in the City of Rolling Hills Estates using the ICU methodology (as compared to the CMA methodology for LADOT) and application of the traffic impact significance thresholds for each respective jurisdiction is provided in **Table 11-2**. The Future Conditions ICU data worksheets for the analyzed intersections for this nearby jurisdiction are contained in **Appendix E**.

### 11.1 Existing Conditions

#### 11.1.1 Existing Conditions

As indicated in column [1] of **Table 11-1**, two of the three of the study intersections in the City of Rolling Hills Estates are operating at LOS D or better during the weekday AM and PM peak hours under existing conditions. The remaining study intersection located in the City of Rolling Hills Estates is operating at LOS E or worse during the weekday AM peak hour, weekday PM peak hour and/or the Saturday mid-day peak hour. As previously mentioned, the existing traffic volumes at the study intersections during the weekday AM and PM peak hours are displayed in **Figures 5-1** and **5-2**, respectively.

#### 11.1.2 Existing With Project Conditions

As presented in column [2] of **Table 11-1**, two of the three study intersections in the City of Rolling Hills Estates are expected to continue operating at LOS D or better during the weekday AM and PM peak hours with the addition of the proposed project. As shown in column [2] of **Table 11-1**, application of the City's threshold criteria to the "With Proposed Project" scenario indicates that the proposed project is not expected to create a significant impact at any of the three study intersections. As indicated in **Table 11-1**, incremental but not significant impacts are noted at the three study intersections. Therefore, no mitigation measures are required or recommended. As previously mentioned, the existing with project (existing plus project) traffic volumes at the study intersections during the weekday AM and PM peak hours are provided in **Figures 9-1** and **9-2**, respectively.

Table 11-1  
SUMMARY OF VOLUME TO CAPACITY RATIOS  
AND LEVELS OF SERVICE  
WEEKDAY AM AND PM PEAK HOURS  
EXISTING AND NEAR-TERM CONDITIONS  
CITY OF ROLLING HILLS ESTATES

NO.	INTERSECTION	PEAK HOUR	[1]		[2]				[3]		[4]			
			YEAR 2010 EXISTING		YEAR 2010 EXISTING W/ PROJECT		CHANGE V/C	SIGNIF. IMPACT	YEAR 2012 NEAR-TERM BASELINE		YEAR 2012 NEAR-TERM W/ PROJECT		CHANGE V/C	SIGNIF. IMPACT
			V/C	LOS	V/C	LOS			[(2)-(1)]	V/C	LOS	V/C		
3	Hawthorne Boulevard/ Palos Verdes Drive North	AM PM	0.908	E	0.912	E	0.004	NO	0.924	E	0.928	E	0.004	NO
			0.806	D	0.808	D	0.002	NO	0.824	D	0.826	D	0.002	NO
7	Crenshaw Boulevard/ Palos Verdes Drive North	AM PM	0.775	C	0.786	C	0.011	NO	0.789	C	0.800	C	0.011	NO
			0.802	D	0.820	D	0.018	NO	0.816	D	0.834	D	0.018	NO
10	Palos Verdes Drive East/ Palos Verdes Drive North	AM PM	0.744	C	0.750	C	0.006	NO	0.764	C	0.770	C	0.006	NO
			0.681	B	0.688	B	0.007	NO	0.702	C	0.709	C	0.007	NO

Table 11-2  
SUMMARY OF VOLUME TO CAPACITY RATIOS  
AND LEVELS OF SERVICE  
WEEKDAY AM AND PM PEAK HOURS  
FUTURE CONDITIONS  
CITY OF ROLLING HILLS ESTATES

NO.	INTERSECTION	PEAK HOUR	[1]		[2]		[3]		[4]		[5]								
			YEAR 2010 EXISTING V/C	LOS	YEAR 2010 EXISTING W/PROJECT V/C	LOS	CHANGE V/C	SIGNIF. IMPACT	YEAR 2017 FUTURE PRE-PROJECT V/C	LOS	YEAR 2017 FUTURE W/PROJECT V/C	LOS	CHANGE V/C	SIGNIF. IMPACT	YEAR 2017 W/PROJECT MITIGATION V/C	LOS	CHANGE V/C	SIGNIF. IMPACT	MITI- GATED
3	Hawthorne Boulevard/ Palos Verdes Drive North	AM	0.908	E	0.912	E	0.004	NO	0.974	E	0.978	E	0.004	NO	0.978	E	0.004	---	---
		PM	0.806	D	0.808	D	0.002	NO	0.878	D	0.880	D	0.002	NO	0.880	D	0.002	---	---
7	Crenshaw Boulevard/ Palos Verdes Drive North	AM	0.775	C	0.786	C	0.011	NO	0.827	D	0.838	D	0.011	NO	0.759	C	-0.068	---	---
		PM	0.802	D	0.820	D	0.018	NO	0.888	D	<b>0.906</b>	<b>E</b>	<b>0.018</b>	<b>YES</b>	<b>0.808</b>	<b>D</b>	<b>-0.080</b>	<b>YES</b>	<b>YES</b>
10	Palos Verdes Drive East/ Palos Verdes Drive North	AM	0.744	C	0.750	C	0.006	NO	0.785	C	0.791	C	0.006	NO	0.791	C	0.006	---	---
		PM	0.681	B	0.688	B	0.007	NO	0.732	C	0.739	C	0.007	NO	0.739	C	0.007	---	---

## 11.2 Near-Term Conditions

### 11.2.1 *Near-Term Cumulative Baseline Conditions*

The near-term year 2012 cumulative baseline conditions were forecast based on the addition of traffic generated by the plus completion and occupancy of near-term related projects (i.e., those developments that are currently under construction and expected to be completed in year 2012), as well as the growth in traffic due to the combined effects of continuing development, intensification of existing developments and other factors (i.e., ambient growth). The near-term related projects included in this analysis condition are noted in *Table 6-1* (noted as “NT” in the Project Status column).

As summarized in column [3] of *Table 11-1*, two of the three study intersections located in the City of Rolling Hills Estates are expected to operate at LOS D or better during the weekday AM peak and PM peak hours with the addition of ambient traffic growth and the traffic due to the near-term related projects. The remaining study intersection located in the City of Rolling Hills Estates is expected to operate at LOS E or worse during the weekday AM peak hour, weekday PM peak hour and/or the Saturday mid-day peak hour. As previously mentioned, the near-term cumulative baseline (existing, ambient growth, and near-term related projects) traffic volumes at the study intersections during the weekday AM and PM peak hours are provided in *Figures 9-4* and *9-5*, respectively.

### 11.2.2 *Near-Term Cumulative With Project Conditions*

As shown in column [4] of *Table 11-1*, application of the significant impact threshold criteria for the City of Rolling Hills Estates to the “Near-Term With Project” scenario indicates that the proposed project is not expected to create a significant impact at any of the three study intersections. As indicated in *Table 11-1*, incremental but not significant impacts are noted at the three study intersections. As previously mentioned, near-term cumulative with project (existing, ambient growth, near-term related projects and project) traffic volumes at the study intersections during the weekday AM and PM peak hours are provided in *Figures 9-7* and *9-8*, respectively.

## 11.3 Future Conditions

### 11.3.1 *Future Pre-Project Conditions*

As shown in column [3] of *Table 11-2*, one of the three study intersections are expected to operate at LOS D or better during the weekday AM and PM peak hours with the addition of ambient traffic growth and the traffic due to the related projects (future pre-project conditions). The remaining study intersections located in the City of Rolling Hills Estates are expected to operate at LOS E or worse during the weekday AM peak hour, weekday PM peak hour and/or the Saturday mid-day peak hour. As previously mentioned, the future pre-project (existing, ambient growth, and related projects) traffic volumes at the study intersections during the weekday AM and PM peak hours are illustrated in *Figures 9-10* and *9-11*, respectively.

### 11.3.2 *Future With Project Conditions*

As shown in column [4] of *Table 11-2*, application of the City's threshold criteria to the "With Proposed Project" scenario indicates that the proposed project is expected to create a significant impact at one study intersection in the City of Rolling Hills Estates during the weekday AM and/or PM peak hour. The City of Rolling Hills Estates study intersection forecast to be significantly impacted by the proposed project is included in the intersections forecast to be significantly impacted based on City of Los Angeles threshold criteria. As indicated in *Table 11-2*, incremental but not significant impacts are noted at the remaining study intersections. As mentioned previously, the future with project (existing, ambient growth, related projects and project) traffic volumes at the study intersections during the weekday AM and PM peak hours are illustrated in *Figures 9-13* and *9-14*, respectively.

## 12.0 COUNTY OF LOS ANGELES TRAFFIC ANALYSIS

The Existing and Near-Term traffic impact analysis prepared for those study intersections located within unincorporated Los Angeles County using the ICU methodology and application of the traffic impact significance thresholds for Los Angeles County is provided in **Table 12-1**. A description of the ICU method and corresponding Level of Service is provided in **Appendix F**. See Subsection 8.2 herein for a discussion and comparison of the significance thresholds used by the City of Los Angeles (the lead agency), as well as the County of Los Angeles. The Existing and Near-Term conditions ICU data worksheets for the analyzed intersections for this nearby jurisdiction are contained in **Appendix F**. The Future conditions traffic impact analysis prepared for those study intersections located within unincorporated Los Angeles County using the ICU methodology (as compared to the CMA methodology for LADOT) and application of the traffic impact significance thresholds for each respective jurisdiction is provided in **Table 12-2**. The Future Conditions ICU data worksheets for the analyzed intersections for this nearby jurisdiction are contained in **Appendix E**.

### 12.1 Existing Conditions

#### 12.1.1 Existing Conditions

As indicated in column [1] of *Table 12-1*, one of the four County study intersections is operating at LOS D or better during the weekday AM and/or PM peak hours under existing conditions. The remaining County study intersections are operating at LOS E or worse during the weekday AM peak hour, weekday PM peak hour and/or the Saturday mid-day peak hour. As previously mentioned, the existing traffic volumes at the study intersections during the weekday AM and PM peak hours are displayed in *Figures 5-1* and *5-2*, respectively.

#### 12.1.2 Existing With Project Conditions

As shown in column [2] of *Table 12-1*, application of the County's threshold criteria to the "With Proposed Project" scenario indicates that the proposed project is not expected to create a significant impact at any of the four study intersections. As indicated in *Table 12-1*, incremental but not significant impacts are noted at the four County study intersections. Therefore, no mitigation measures are required or recommended. As previously mentioned, the existing with project (existing plus project) traffic volumes at the study intersections during the weekday AM and PM peak hours are provided in *Figures 9-1* and *9-2*, respectively.

#### 12.1.3 Existing With Ambient Growth Conditions

Growth in traffic due to the combined effects of continuing development, intensification of existing developments and other factors was assumed to be one percent (1.0%) per year through year 2017. This ambient growth incrementally increases the v/c ratios at all of the study intersections. As shown in column [2] of *Table 12-2*, one of the four County study intersections is expected to continue to operate at LOS D or better during the weekday AM and/or PM peak hours with the addition of ambient growth traffic through the year 2017. The remaining study intersections are expected to operate at LOS E or worse during the weekday AM peak hour, weekday PM peak hour and/or the Saturday mid-day peak hour.



Table 12-1  
SUMMARY OF VOLUME TO CAPACITY RATIOS  
AND LEVELS OF SERVICE  
WEEKDAY AM AND PM PEAK HOURS  
EXISTING AND NEAR-TERM CONDITIONS  
COUNTY OF LOS ANGELES

NO.	INTERSECTION	PEAK HOUR	[1]		[2]				[3]		[4]					
			YEAR 2010 EXISTING		YEAR 2010 EXISTING W/ PROJECT		CHANGE V/C		SIGNIF. IMPACT	YEAR 2012 NEAR-TERM BASELINE		YEAR 2012 NEAR-TERM W/ PROJECT		CHANGE V/C		SIGNIF. IMPACT
			V/C	LOS	V/C	LOS	[(2)-(1)]	V/C		LOS	V/C	LOS	V/C	LOS	[(4)-(3)]	
32	Normandie Avenue/ Sepulveda Boulevard	AM PM	0.833 0.772	D C	0.837 0.774	D C	0.004 0.002	NO NO	0.847 0.785	D C	0.852 0.787	D C	0.005 0.002	NO NO		
33	Normandie Avenue/ Lomita Boulevard	AM PM	0.978 0.966	E E	0.979 0.972	E E	0.001 0.006	NO NO	0.996 0.984	E E	0.997 0.990	E E	0.001 0.006	NO NO		
44	Vermont Avenue/ Sepulveda Boulevard	AM PM	0.895 0.966	D E	0.899 0.975	D E	0.004 0.009	NO NO	0.911 0.986	E E	0.915 0.995	E E	0.004 0.009	NO NO		
45	Vermont Avenue/ Lomita Boulevard	AM PM	1.034 0.933	F E	1.036 0.942	F E	0.002 0.009	NO NO	0.968 0.862	E D	0.970 0.869	E D	0.002 0.007	NO NO		

Table 12-2  
SUMMARY OF VOLUME TO CAPACITY RATIOS  
AND LEVELS OF SERVICE  
WEEKDAY AM AND PM PEAK HOURS  
FUTURE CONDITIONS  
COUNTY OF LOS ANGELES

NO.	INTERSECTION	PEAK HOUR	[1]		[2]		[3]			[4]			[5]			
			YEAR 2010 EXISTING V/C	LOS	YEAR 2017 W/AMBIENT GROWTH V/C	LOS	YEAR 2017 W/PROPOSED PROJECT V/C	LOS	CHANGE V/C [(3)-(2)]	SIGNIF. IMPACT	CHANGE V/C [(4)-(2)]	SIGNIF. IMPACT	YEAR 2017 W/REGIONAL MITIGATION V/C	LOS	CHANGE V/C [(5)-(2)]	MITI- GATED
32	Normandie Avenue/ Sepulveda Boulevard	AM PM	0.833 0.772	D C	0.884 0.819	D D	0.888 0.821	D D	0.004 0.002	NO NO	0.004 0.002	YES YES	0.865 0.795	D C	-0.019 -0.024	YES YES
33	Normandie Avenue/ Lomita Boulevard	AM PM	0.978 0.966	E E	0.939 0.927	E E	0.940 0.932	E E	0.001 0.005	NO NO	0.001 0.005	YES YES	0.909 0.907	E E	-0.030 -0.020	YES YES
44	Vermont Avenue/ Sepulveda Boulevard	AM PM	0.895 0.966	D E	0.950 1.027	E F	0.954 1.035	E F	0.004 0.008	NO NO	-0.015 -0.071	YES YES	0.949 0.994	E E	-0.001 -0.033	YES YES
45	Vermont Avenue/ Lomita Boulevard	AM PM	1.034 0.933	F E	0.999 0.892	E D	1.001 0.900	F D	0.002 0.008	NO NO	0.002 0.008	YES YES	0.911 0.837	E D	-0.088 -0.055	YES YES

[a] According to the County of Los Angeles Department of Public Works' "Traffic Impact Analysis Report Guidelines", January 1, 1997, Page 6:  
"an impact is considered significant if the project related increase in the volume-to-capacity ratio (v/c) equals or exceeds the thresholds shown below":

Level of Service		Existing ICU		Project-Related Increase in V/C	
C	> 0.700 - 0.800			equal to or greater than 0.040	
D	> 0.800 - 0.900			equal to or greater than 0.020	
E/F	> 0.900			equal to or greater than 0.010	

#### 12.1.4 *Existing With Ambient Growth Plus Proposed Project Conditions*

The v/c ratios at all four County study intersections are incrementally increased with the addition of traffic generated by ambient growth and the proposed project. As presented in column [3] of *Table 12-2*, one of the four County study intersections is expected to continue operating at LOS D or better during the weekday AM and/or PM peak hours with the addition of growth in ambient traffic and the traffic due to the proposed project. The remaining study intersections are expected to operate at LOS E or worse during the weekday AM peak hour, weekday PM peak hour and/or the Saturday mid-day peak hour. As shown in column [3] of *Table 12-2*, application of the County's threshold criteria to the "With Proposed Project" scenario indicates that the proposed project is not expected to create a significant impact at any of the four County study intersections.

### 12.2 Near-Term Conditions

#### 12.2.1 *Near-Term Cumulative Baseline Conditions*

The near-term year 2012 cumulative baseline conditions were forecast based on the addition of traffic generated by the plus completion and occupancy of near-term related projects (i.e., those developments that are currently under construction and expected to be completed in year 2012), as well as the growth in traffic due to the combined effects of continuing development, intensification of existing developments and other factors (i.e., ambient growth). The near-term related projects included in this analysis condition are noted in *Table 6-1* (noted as "NT" in the Project Status column).

As summarized in column [3] of *Table 12-1*, one of the four County study intersections is expected to continue operating at LOS D or better during the weekday AM and/or PM peak hours with the addition of ambient traffic growth and the traffic due to the near-term related projects. The remaining study intersections are expected to operate at LOS E or worse during the weekday AM and/or PM peak hours. As previously mentioned, the near-term cumulative baseline (existing, ambient growth, and near-term related projects) traffic volumes at the study intersections during the weekday AM and PM peak hours are provided in *Figures 9-4* and *9-5*, respectively.

#### 12.2.2 *Near-Term Cumulative With Project Conditions*

As shown in column [4] of *Table 12-1*, one of the four County study intersections is expected to continue operating at LOS D or better during the weekday AM and/or PM peak hours with the addition of growth in ambient traffic, traffic due to the near-term related projects, and the traffic due to the proposed project. The remaining study intersections are expected to operate at LOS E or worse during the weekday AM peak hour, weekday PM peak hour and/or the Saturday mid-day peak hour. As shown in column [4] of *Table 12-2*, application of the County's threshold criteria to the "With Proposed Project" scenario indicates that the proposed project is not expected to create a significant impact at any of the four County study intersections.

### 12.3 Future Cumulative Conditions

The  $v/c$  ratios at all four County study intersections are incrementally increased with the addition of traffic generated by the related projects listed in *Table 6-1*. As presented in column [4] of *Table 12-2*, all four County study intersections are expected to operate at LOS E or worse during the weekday AM and PM peak hours with the addition of growth in ambient traffic, project traffic, and the traffic due to the related projects. As also indicated in column [4] of *Table 12-2*, application of the County's threshold criteria to the "Future Cumulative" scenario indicates that cumulative significant impacts are forecast for all four County study intersections. The future cumulative (existing, ambient growth, related projects and project) traffic volumes at the study intersections during the weekday AM and PM peak hours are illustrated in *Figures 9-13* and *9-14*, respectively.

## 13.0 TRANSPORTATION MITIGATION MEASURES

The following section provides an overview of feasible mitigation measures that can reduce the project's significant transportation impacts to less than significant levels.

### 13.1 Summary of Project Mitigation

As summarized in the Future Cumulative With Project Conditions section (refer to Subsection 9.3.2) of this study, application of the City of Los Angeles' threshold criteria to the "With Proposed Project" scenario indicates that 20 of the 56 study intersections are anticipated to be significantly impacted due to traffic generated by the Ponte Vista at San Pedro project. As previously discussed, a total of six study intersections located in other jurisdictions (one intersection in the City of Lomita, four intersections in the City of Rancho Palos Verdes and one intersection in the City of Rolling Hills Estates) are forecast to be impacted by the proposed project employing the respective jurisdiction analysis methodology and threshold criteria. All six study intersections forecast to be significantly impacted by the proposed project in these nearby jurisdictions are included in the intersections forecast to be significantly impacted based on City of Los Angeles threshold criteria. A summary list of the impacted intersections under the CMA and ICU methodologies by jurisdiction is presented in **Table 13-1**.

Transportation mitigation measures typically consist of improvements such as roadway and/or intersection restriping and roadway widening to accommodate additional travel lanes, and/or traffic signal modifications. A wide range of roadway improvement and operational mitigation measures have been recommended to reduce the forecast project-related impacts to less than significant levels. As indicated in *Tables 9-1, 9-2, 10-1, 10-2, 11-1, 11-2, 12-1 and 12-2*, the recommended transportation mitigation measures would mitigate the project impacts based on the CMA intersection analysis methodology and significance thresholds of the Lead Agency (City of Los Angeles), as well as using the ICU intersection analysis methodology and the significance thresholds of the nearby adjacent jurisdictions, as applicable. Further, these mitigation measures mitigate the potential project-related traffic impacts for each of the three analysis conditions: Existing + Project, Near-Term + Project, and Future + Project. The following paragraphs summarize the recommended transportation mitigation measures. A summary of the recommended mitigation measures for each study intersection forecast to be impact is presented in **Table 13-2**. The future lane configurations with the proposed mitigation measures are illustrated in **Figure 13-1**. Conceptual roadway improvement plans illustrating the recommended physical improvement mitigation measures are provided in **Appendix G**.

#### Intersection No. 6: Crenshaw Boulevard/Pacific Coast Highway

The recommended mitigation consists of modifying the southbound approach on Crenshaw Boulevard at Pacific Coast Highway to accommodate installation of a second left-turn lane. To accommodate the proposed second left-turn lane, the existing roadway striping and median islands would be modified as needed. It is noted that a traffic signal modification would likely be required to accommodate this recommended mitigation measure. As shown in *Figure 13-1*, the resulting lane

Table 13-1  
SUMMARY LIST OF IMPACTED AND MITIGATED INTERSECTIONS

NO.	INTERSECTION	PEAK HOUR	SIGNIFICANTLY IMPACTED & MITIGATED CITY OF LOS ANGELES METHODOLOGY & THRESHOLDS	OTHER JURISDICTIONS	
				JURISDICTION	SIGNIFICANTLY IMPACTED & MITIGATED BASED ON JURISD. METH. & THRESHOLDS
6	Crenshaw Boulevard/ Pacific Coast Highway	PM	YES	City of Torrance	NO
7	Crenshaw Boulevard/ Palos Verdes Drive North	PM	YES	City of Rolling Hills Estates	YES
12	Western Avenue/ Lomita Boulevard	PM	YES	----	----
13	Western Avenue/ Pacific Coast Highway	AM PM SAT	YES YES YES	---- ---- ----	---- ---- ----
15	Western Avenue/ Palos Verdes Drive North	AM PM SAT	YES YES YES	City of Lomita	YES YES NO
16	Western Avenue/ Peninsula Verde Drive	AM PM SAT	YES YES YES	City of Rancho Palos Verdes	NO YES NO
19	Western Avenue/ Fitness Drive	AM SAT	---- YES	City of Rancho Palos Verdes	YES NO
20	Western Avenue/ Westmont Drive	AM PM SAT	YES YES YES	City of Rancho Palos Verdes	YES YES YES
23	Western Avenue/ Capitol Drive	AM PM SAT	YES YES YES	City of Rancho Palos Verdes	NO YES YES
26	Western Avenue/ Summerland Avenue	PM	YES	City of Rancho Palos Verdes	NO
36	Vermont Avenue-Palos Verdes Drive N.- Gaffey Street/Anaheim Street	PM	YES	----	----
37	Gaffey Street/ Westmont Drive	PM	YES	----	----
41	Gaffey Street/ Summerland Avenue	AM PM	YES YES	---- ----	---- ----

Note(s):

- No = Intersection not impacted based on other jurisdiction methodology and thresholds.
- ---- = Denotes City of Los Angeles intersection.

Table 13-1 (Continued)  
SUMMARY LIST OF IMPACTED AND MITIGATED INTERSECTIONS

NO.	INTERSECTION	PEAK HOUR	SIGNIFICANTLY IMPACTED & MITIGATED CITY OF LOS ANGELES METHODOLOGY & THRESHOLDS	OTHER JURISDICTIONS	
				JURISDICTION	SIGNIFICANTLY IMPACTED & MITIGATED BASED ON JURISD. METH. & THRESHOLDS
44	Vermont Avenue/ Sepulveda Boulevard	PM	YES	----	----
46	Vermont Avenue/ Pacific Coast Highway	AM PM	YES YES	----- -----	----- -----
49	Figueroa Place/ Anaheim Street	AM PM	YES YES	----- -----	----- -----
51	Figueroa Street/I-110 NB on-ramp (north of PCH)	AM PM	YES YES	----- -----	----- -----
52	Figueroa Street/ Pacific Coast Highway	AM PM	YES YES	----- -----	----- -----
53	Figueroa Street/I-110 NB on-ramp (north of Anaheim Street)	AM PM	YES YES	----- -----	----- -----
54	Figueroa Street/ Anaheim Street	AM PM	YES YES	----- -----	----- -----

Note(s):

- No = Intersection not impacted based on other jurisdiction methodology and thresholds.
- ---- = Denotes City of Los Angeles intersection.
- In addition to the forecast project-related impacts as noted above, the Ponte Vista at San Pedro project contributes to forecast cumulative impacts for the four Los Angeles County study intersections (i.e., Intersection Nos. 32, 33, 44 and 45) based on the County's methodology and thresholds.

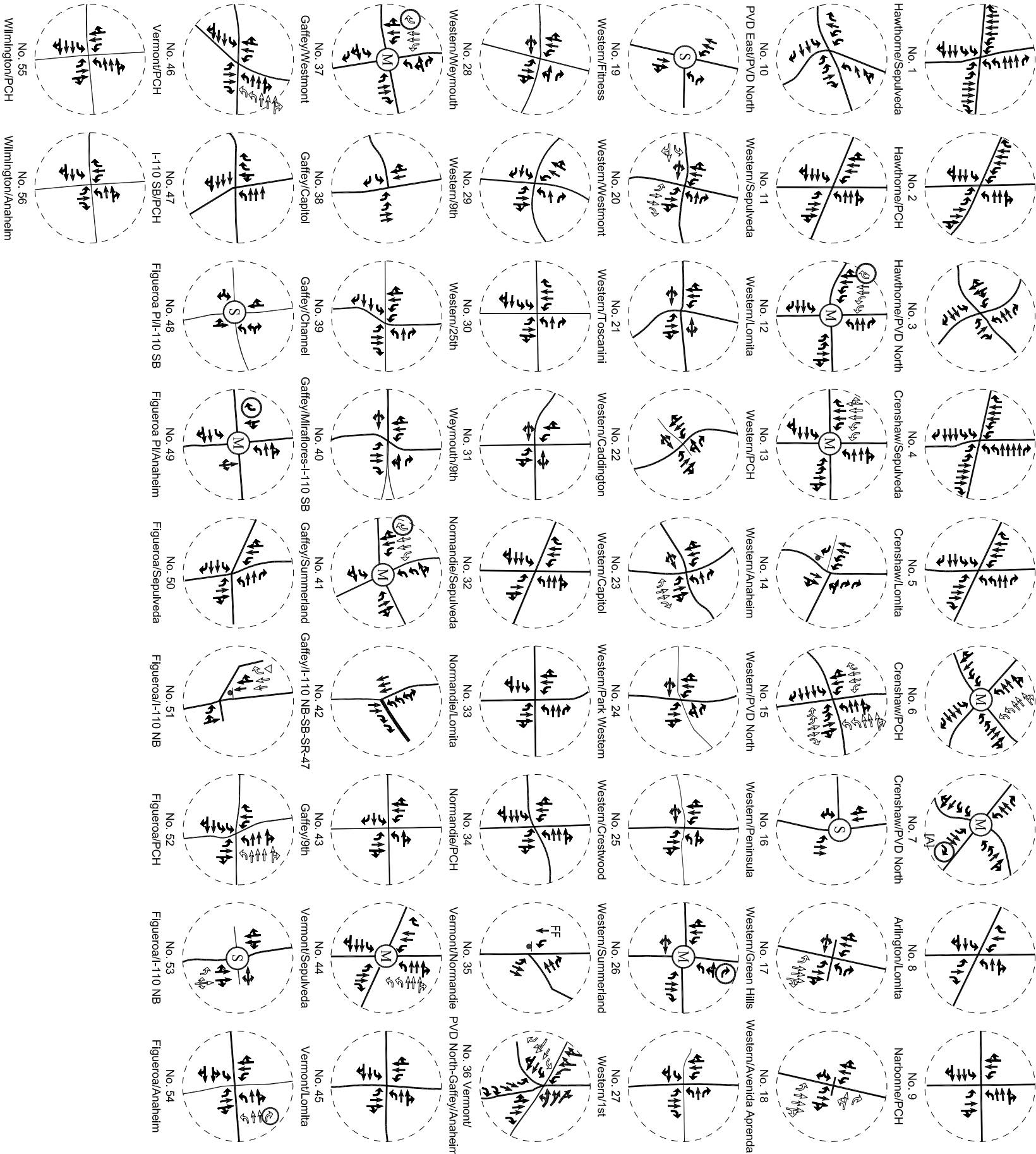
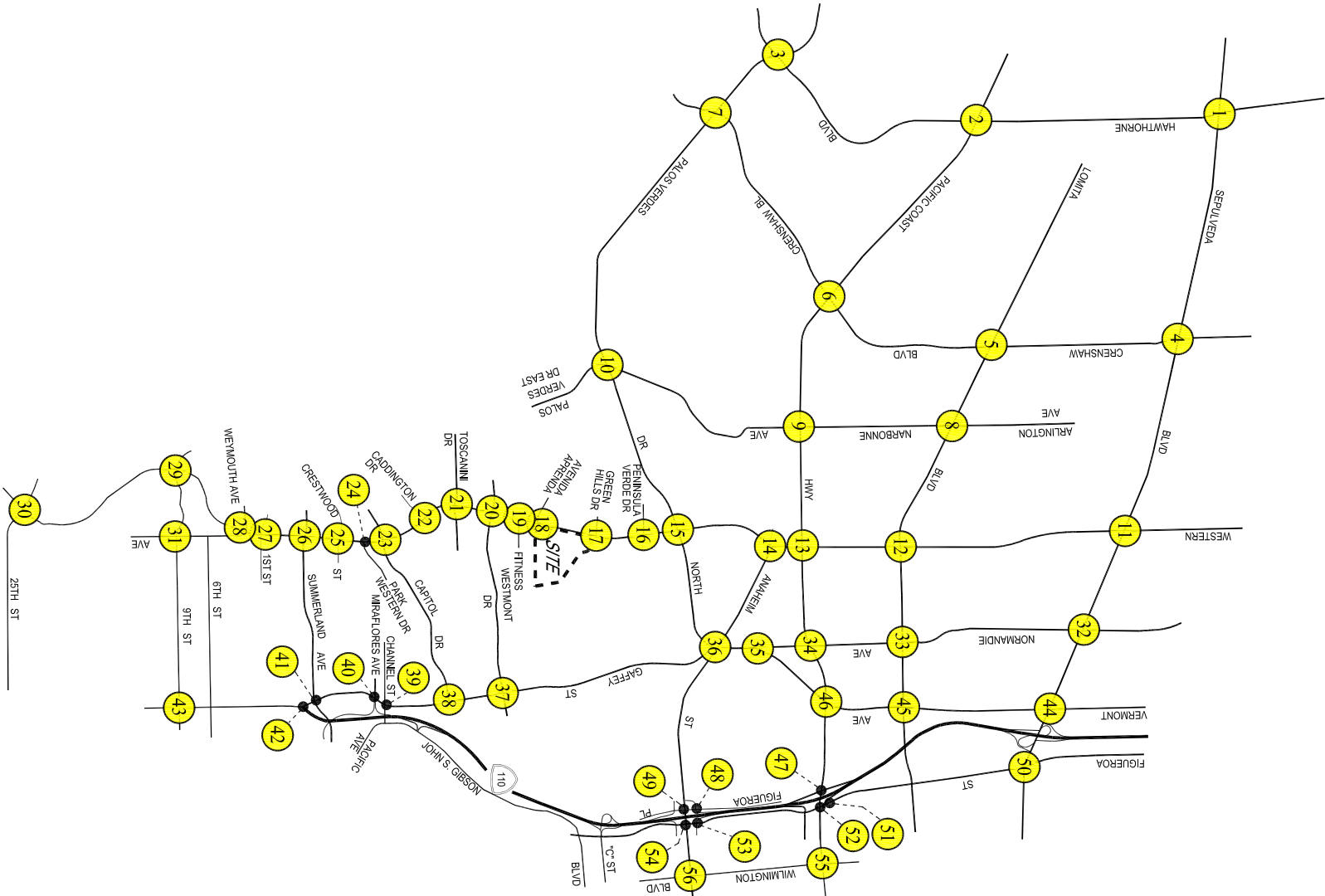
**Table 13-2**  
**SUMMARY LIST OF MITIGATION MEASURES**

INT. NO.	LOCATION	MITIGATION
6	Crenshaw Boulevard/ Pacific Coast Highway	<ul style="list-style-type: none"> <li>◆ Modify the southbound approach on Crenshaw Boulevard to provide a second left-turn lane</li> <li>◆ The resulting southbound approach lane configuration will be two left-turn lanes, two through lanes, and one shared through/right-turn lane</li> <li>◆ Modify the traffic signal at the intersection to accommodate installation of the second left-turn lane</li> </ul>
7	Crenshaw Boulevard/ Palos Verdes Drive North	<ul style="list-style-type: none"> <li>◆ Modify the traffic signal to provide northbound right-turn overlap signal phase with the westbound left-turn signal phase</li> </ul>
12	Western Avenue/ Lomita Boulevard	<ul style="list-style-type: none"> <li>◆ Restripe the southbound approach to provide a right-turn only lane</li> <li>◆ The resulting southbound approach lane configuration will be two left-turn lanes, two through lanes, and one right-turn only lane</li> <li>◆ Modify the traffic signal to provide southbound right-turn overlap signal phase with the eastbound left-turn signal phase</li> </ul>
13	Western Avenue/ Pacific Coast Highway	<ul style="list-style-type: none"> <li>◆ Modify the southbound approach to provide a second left-turn lane and a third through lane</li> <li>◆ The resulting southbound approach lane configuration will be two left-turn lanes, two through lanes and one shared through/right-turn lane</li> <li>◆ Modify the traffic signal at the intersection to accommodate the recommended improvement measures</li> </ul>
15	Western Avenue/ Palos Verdes Drive North	<ul style="list-style-type: none"> <li>◆ Restripe the southbound approach to provide a right-turn only lane</li> <li>◆ The resulting southbound approach lane configuration will be one left-turn lane, two through lanes, and one right-turn only lane</li> <li>◆ Modify the westbound approach on Palos Verdes Drive North to provide a second left-turn lane</li> <li>◆ The resulting westbound approach lane configuration will be two left-turn lanes, two through lanes and one shared through/right-turn only lane</li> <li>◆ Modify the northbound approach on Western Avenue to add a right-turn only lane</li> <li>◆ The resulting northbound approach lane configuration will be two left-turn lanes, two through lanes and one right-turn only lane</li> </ul>
16	Western Avenue/ Peninsula Verde Drive	<ul style="list-style-type: none"> <li>◆ Fund installation of new traffic signal</li> </ul>
19	Western Avenue/ Fitness Drive	<ul style="list-style-type: none"> <li>◆ Fund installation of new traffic signal</li> </ul>
20	Western Avenue/ Westmont Drive	<ul style="list-style-type: none"> <li>◆ Modify the northbound approach to provide a right-turn only lane</li> <li>◆ The resulting northbound approach lane configuration will be one left-turn lane, two through lanes and one right-turn only lane</li> <li>◆ Restripe the eastbound approach to provide a left-turn lane</li> <li>◆ The resulting eastbound approach lane configuration will be one left-turn and one shared through/right-turn lane</li> </ul>
23	Western Avenue/ Capitol Drive	<ul style="list-style-type: none"> <li>◆ Modify the northbound approach to provide a right-turn only lane</li> <li>◆ The resulting northbound approach lane configuration will be one left-turn lane, two through lanes and one right-turn lane</li> </ul>
26	Western Avenue/ Summerland Avenue	<ul style="list-style-type: none"> <li>◆ Modify the traffic signal to provide westbound right-turn overlap signal phase with the southbound left-turn signal phase</li> </ul>



**Table 13-2 Continued**  
**SUMMARY LIST OF MITIGATION MEASURES**

INT. NO.	LOCATION	MITIGATION
36	Vermont Avenue-Palos Verdes Drive North -Gaffey Street/Anaheim Street	<ul style="list-style-type: none"> <li>◆ Widen the eastbound approach on Anaheim Street to provide a right-turn only lane</li> <li>◆ The resulting eastbound approach lane configuration will be one left-turn lane, one through lane, one shared through/right-turn lane and one right-turn only lane</li> <li>◆ Provide enhanced right-turn signage for eastbound Anaheim Street as required</li> </ul>
37	Gaffey Street/Westmont Drive	<ul style="list-style-type: none"> <li>◆ Widen Gaffey Street north of Westmont Drive to provide a right-turn only lane at the southbound approach</li> <li>◆ The modification of the intersection will accommodate continuation of the existing bicycle lane and the southbound right-turn only lane</li> <li>◆ The resulting southbound approach lane configuration will be one left-turn two through lanes, and one right-turn only lane</li> <li>◆ Modify the traffic signal to provide southbound right-turn overlap signal phase with the eastbound left-turn signal phase</li> </ul>
41	Gaffey Street/ Summerland Avenue	<ul style="list-style-type: none"> <li>◆ Restripe the southbound approach to provide a southbound right-turn only lane</li> <li>◆ The resulting southbound approach lane configuration will be one left-turn lane, two through-lanes and one right-turn only lane</li> <li>◆ Modify the traffic signal to provide southbound right-turn overlap signal phase with the eastbound left-turn signal phase</li> </ul>
44	Vermont Avenue/ Sepulveda Boulevard	<ul style="list-style-type: none"> <li>◆ Modify the westbound approach on Sepulveda Boulevard to provide a second left-turn lane</li> <li>◆ The resulting westbound approach lane configuration will be two left-turn lanes, two through-lanes and one shared through/right-turn lane</li> <li>◆ Modify the traffic signal at the intersection to accommodate the recommended improvement measures</li> </ul>
46	Vermont Avenue/ Pacific Coast Highway	<ul style="list-style-type: none"> <li>◆ Widen Pacific Coast Highway to provide a second left-turn lane at the westbound approach</li> <li>◆ The resulting westbound approach lane configuration will be two left-turn lanes, two through lanes and one shared through/right-turn lane</li> <li>◆ Modify the traffic signal at the intersection to accommodate the recommended improvement measures</li> </ul>
48	Figueroa Place/ I-110 SB Off-Ramp (north of Anaheim Street)	<ul style="list-style-type: none"> <li>◆ Fund installation of new traffic signal as part of the mitigation at the Figueroa Place/Anaheim Street intersection</li> </ul>
49	Figueroa Place/ Anaheim Street	<ul style="list-style-type: none"> <li>◆ Modify the traffic signal to provide a southbound right-turn signal phase on Figueroa Place that would overlap with the eastbound left-turn and through sufficiently long enough to accommodate the southbound right-turn volumes</li> </ul>
51	Figueroa Street/ I-110 Northbound On-Ramp (north of Pacific Coast Highway)	<ul style="list-style-type: none"> <li>◆ Modify the southbound approach to provide a right-turn only lane</li> <li>◆ The resulting southbound approach lane configuration will be two through lanes and one right-turn only lane</li> </ul>
52	Figueroa Street/ Pacific Coast Highway	<ul style="list-style-type: none"> <li>◆ Modify the westbound approach on Pacific Coast Highway to provide a fourth through lane</li> <li>◆ The resulting westbound approach lane configuration will be one left-turn lane, three through lanes, and one shared through/right-turn lane</li> </ul>
53	Figueroa Street/ I-110 NB On-Ramp (north of Anaheim Street)	<ul style="list-style-type: none"> <li>◆ Fund installation of new traffic signal</li> <li>◆ Restripe the northbound approach on Figueroa Street to provide one left-turn lane and one share left-turn/through/right-turn lane</li> </ul>
54	Figueroa Street/ Anaheim Street	<ul style="list-style-type: none"> <li>◆ Widen the westbound approach on Anaheim Street to provide a right-turn only lane</li> <li>◆ The resulting westbound approach lane configurations will be one left-turn lane, two through lanes and one right-turn only lane</li> </ul>



NOTES:

[A] NO RIGHT-TURN ON RED

[S] NEW TRAFFIC SIGNAL

STOP SIGN

PROJECT LANE MITIGATION

OVERLAP SIGNAL PHASE

MITIGATION YIELD SIGN

TRAFFIC SIGNAL MODIFICATION



NOT TO SCALE

LINSCOTT, LAW & GREENSPAN, engineers

FREE-FLOW MOVEMENT

FIGURE 13-1 FUTURE LANE CONFIGURATIONS WITH PROJECT MITIGATION

PONTE VISTA AT SAN PEDRO PROJECT

configuration at the southbound approach would provide two left-turn lanes, two through lanes, and one shared through/right-turn lane. As shown in *Table 9-2*, these mitigation measures are anticipated to reduce the forecast Ponte Vista at San Pedro project impacts to less than significant levels.

It is noted that this intersection is located in the City of Torrance and is therefore outside the jurisdiction of the Lead Agency. Should the City of Torrance refuse to permit implementation of this feasible traffic mitigation measure, a residual, unmitigated traffic impact would result. Also, Pacific Coast Highway is situated within Caltrans' jurisdiction and is therefore outside the jurisdiction of the Lead Agency. Should Caltrans refuse to permit implementation of this feasible traffic mitigation measure, a residual, unmitigated traffic impact would result.

#### Intersection No. 7: Crenshaw Boulevard/Palos Verdes Drive North

The recommended mitigation consists of modifying the existing traffic signal to provide a northbound right-turn signal phase on Crenshaw Boulevard that would overlap with the westbound left-turn signal phase on Palos Verdes Drive North. To accommodate the proposed northbound right-turn signal phase on Crenshaw Boulevard, U-turn movements on the westbound approach of Palos Verdes Drive North would need to be prohibited. As shown in *Table 9-2*, these mitigation measures are anticipated to reduce the forecast Ponte Vista at San Pedro project impacts to less than significant levels.

It is noted that this intersection is located in the City of Rolling Hills Estates and is therefore outside the jurisdiction of the Lead Agency. Should the City Rolling Hills Estates refuse to permit implementation of this feasible traffic mitigation measure, a residual, unmitigated traffic impact would result.

#### Intersection No. 12: Western Avenue/Lomita Boulevard

The recommended mitigation consists of modifying the southbound approach on Western Avenue at Lomita Boulevard to accommodate installation of a right-turn only lane. To accommodate the proposed right-turn only lane, the existing roadway striping would be adjusted as needed. As shown in *Figure 13-1*, the resulting lane configuration at the southbound approach would provide two left-turn lanes, two through lanes, and one right-turn lane. In addition, the existing traffic signal is proposed to be modified to provide a southbound right-turn signal phase on Western Avenue that would overlap with the eastbound left-turn signal phase on Lomita Boulevard. As shown in *Table 9-2*, these mitigation measures are anticipated to reduce the forecast Ponte Vista at San Pedro project impacts to less than significant levels. A conceptual drawing of the proposed mitigation is provided in *Appendix G*.

This mitigation measure is consistent with the recommended transportation improvements outlined in the Western Corridor Improvement Project report issued by Caltrans for the Western Avenue Task Force. It is noted that Western Avenue is within Caltrans' jurisdiction and therefore implementation of the traffic mitigation would be outside the jurisdiction of the Lead Agency. Should Caltrans

refuse to permit implementation of this feasible traffic mitigation measure, a residual, unmitigated traffic impact would result.

#### Intersection No. 13: Western Avenue/Pacific Coast Highway

The recommended mitigation consists of modifying the southbound approach on Western Avenue at Pacific Coast Highway to accommodate installation of a second left-turn lane and a third through lane. South of Pacific Coast Highway, the third southbound through lane on Western Avenue (i.e., the curb lane) will merge with the number two southbound through lane. To accommodate the proposed second left-turn lane and third through lane, the existing roadway striping on Western Avenue would require modifications both north and south of Pacific Coast Highway. Also, it is noted that the raised median island on Western Avenue between 259<sup>th</sup> Street and Anaheim Street would need to be modified to accommodate the recommended improvements. As shown in *Figure 13-1*, the resulting lane configuration at the southbound approach at the Pacific Coast Highway would provide two left-turn lanes, two through lanes, and one shared through/right-turn lane. In addition, a traffic signal modification at the Western Avenue/Pacific Coast Highway intersection also will be required to facilitate the recommended roadway improvements. As shown in *Table 9-2*, these mitigation measures are anticipated to reduce the forecast Ponte Vista at San Pedro project impacts to less than significant levels. A conceptual drawing of the proposed mitigation is provided in *Appendix G*.

This mitigation measure is consistent with the recommended transportation improvements outlined in the Western Corridor Improvement Project report issued by Caltrans for the Western Avenue Task Force. It is noted that Western Avenue and Pacific Coast Highway are within Caltrans' jurisdiction and therefore implementation of the traffic mitigation would be outside the jurisdiction of the Lead Agency. Should Caltrans refuse to permit implementation of this feasible traffic mitigation measure, a residual, unmitigated traffic impact would result.

#### Intersection No. 15: Western Avenue/Palos Verdes Drive North

The recommended mitigation consists of modifying the westbound approach on Palos Verdes Drive North at Western Avenue to accommodate installation of a second left-turn lane. To accommodate the proposed second left-turn lane, the existing median on Palos Verdes Drive North and traffic signal equipment would be modified and the roadway striping would be adjusted as needed. Approximately five parking spaces would be removed on the north side of Palos Verdes Drive North west of Western Avenue and 10 parking spaces would be removed on the north side of Palos Verdes Drive North east of Western Avenue. An additional mitigation measure is recommended which includes modifying the northbound approach on Western Avenue at Palos Verdes Drive North to accommodate installation of a right-turn only lane. To accommodate the proposed right-turn lane, the existing median on Western Avenue would be modified and the roadway striping would be modified as needed. Also, the roadway striping on the southbound Western Avenue approach would be modified to provide a right-turn lane. As shown in *Figure 13-1*, the resulting lane configuration at the westbound approach would provide two left-turn lanes, two through lanes, and

one shared through/right-turn lane. The resulting lane configuration at the northbound approach would provide two left-turn lanes, two through lanes, and one right-turn only lane. The resulting lane configuration at the southbound approach would provide one left-turn lane, two through lanes, and one right-turn only lane. As shown in *Table 9-2*, these mitigation measures are anticipated to reduce the forecast Ponte Vista at San Pedro project impacts to less than significant levels. A conceptual drawing of the proposed mitigation is provided in *Appendix G*.

This mitigation measure is consistent with the recommended transportation improvements outlined in the Western Corridor Improvement Project report issued by Caltrans for the Western Avenue Task Force and would be implemented by the applicant as a condition of project approval. It is noted that a portion of this intersection is located in the City of Lomita and is, therefore, outside the jurisdiction of the Lead Agency. Should the City of Lomita refuse to permit implementation of these feasible traffic mitigation measures, a residual, unmitigated traffic impact would result. Also, it is noted that Western Avenue is within Caltrans' jurisdiction and is therefore outside the jurisdiction of the Lead Agency. Should Caltrans refuse to permit implementation of this feasible traffic mitigation measure, a residual, unmitigated traffic impact would result.

#### Intersection No. 16: Western Avenue/Peninsula Verde Drive

A traffic signal is proposed at the Western Avenue/Peninsula Verde Drive intersection, which is currently stop-sign controlled. Standard Caltrans and LADOT traffic signal warrant calculations were prepared for the Western Avenue/Peninsula Verde Drive intersection. The determination of whether the installation of a traffic signal is warranted was based on criteria set forth in Chapter 4C of the MUTCD 2003 California Supplement, July 21, 2010 and the City of Los Angeles Manual of Policies and Procedures, October 2005. The traffic signal warrant calculations were based on future forecast peak traffic volumes.

The Peak Hour Volume Warrant is intended for application where traffic conditions are such that for one hour of the day minor street traffic suffers undue delay in entering or crossing the major street. The Peak Hour Volume warrant is satisfied when the plotted point, representing the vehicles per hour on the major street (total of both approaches) and the corresponding vehicles per hour on the higher volume minor street approach (one direction only) for one hour of an average day, falls above the curve in Figure 4C-4 and Figure D for the applicable number of approach lanes.

The plotted points under the future with project conditions for the AM and PM peak hours lie below the applicable curve. Therefore, Warrant 3 is not satisfied for the Western Avenue/Peninsula Verde Drive. However, it is noted that in prior discussions with Caltrans,<sup>12</sup> a traffic signal would be considered for this intersection. It is also noted that the Western Avenue/Peninsula Verde Drive intersection is located within Caltrans' and City of Rancho Palos Verdes jurisdiction and therefore implementation of the traffic mitigation may be outside the jurisdiction of the Lead Agency. Should Caltrans or City of Rancho Palos Verdes refuse to permit implementation of this feasible traffic mitigation measure, a residual, unmitigated traffic impact would result. The traffic signal warrants

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<sup>12</sup> In phone conversation with Yunus Ghausi, February 15, 2007.

(i.e., Figure 4C-4 and Figure D), as contained in the MUTCD 2003 California Supplement and the City of Los Angeles Manual of Policies and Procedures, also are provided in *Appendix G*.

The effectiveness of this mitigation measure was assessed through completion of the intersection capacity analyses, which assume implementation of the recommended project mitigation measure. As shown in *Table 9-2*, the proposed mitigation measure is anticipated to reduce the forecast Ponte Vista at San Pedro project impacts to less than significant levels.

#### Intersection No. 19: Western Avenue/Fitness Drive

A traffic signal is proposed at the Western Avenue/Fitness Drive intersection, which is currently stop-sign controlled. Standard Caltrans and LADOT traffic signal warrant calculations were prepared for the Western Avenue/Fitness Drive intersection. The determination of whether the installation of a traffic signal is warranted was based on criteria set forth in Chapter 4C of the MUTCD 2003 California Supplement, July 21, 2010 and the City of Los Angeles Manual of Policies and Procedures, October 2005. The traffic signal warrant calculations were based on future forecast peak traffic volumes.

The Peak Hour Volume Warrant is intended for application where traffic conditions are such that for one hour of the day minor street traffic suffers undue delay in entering or crossing the major street. The Peak Hour Volume warrant is satisfied when the plotted point, representing the vehicles per hour on the major street (total of both approaches) and the corresponding vehicles per hour on the higher volume minor street approach (one direction only) for one hour of an average day, falls above the curve in Figure 4C-4 and Figure D for the applicable number of approach lanes.

The plotted points under the future with project conditions for the AM and PM peak hours lie above the applicable curve. Therefore, Warrant 3 is satisfied for the Western Avenue/Fitness Drive. It is noted that the Western Avenue/Fitness Drive intersection is located within Caltrans' and City of Rancho Palos Verdes jurisdiction and therefore implementation of the traffic mitigation may be outside the jurisdiction of the Lead Agency. Should Caltrans or City of Rancho Palos Verdes refuse to permit implementation of this feasible traffic mitigation measure, a residual, unmitigated traffic impact would result. The traffic signal warrants (i.e., Figure 4C-4 and Figure D), as contained in the MUTCD 2003 California Supplement and the City of Los Angeles Manual of Policies and Procedures, also are provided in *Appendix G*.

The effectiveness of this mitigation measure was assessed through completion of the intersection capacity analyses, which assume implementation of the recommended project mitigation measure. As shown in *Table 9-2*, the proposed mitigation measure is anticipated to reduce the forecast Ponte Vista at San Pedro project impacts to less than significant levels.

#### Intersection No. 20: Western Avenue/Westmont Drive

The recommended mitigation consists of modifying the northbound approach on Western Avenue at Westmont Drive to accommodate installation of a right-turn only lane. To accommodate the

proposed right-turn only lane, the existing roadway striping, as well as a portion of the raised median on Western Avenue north and south of Westmont Avenue would be adjusted as needed. As shown in *Figure 13-1*, the resulting lane configuration at the northbound approach would provide one left-turn lane, two through lanes, and one right-turn lane. An additional mitigation measure is recommended which consists of modifying the eastbound approach on Westmont Drive at Western Avenue to provide one left-turn lane. To accommodate the proposed left-turn lane, the existing roadway striping would be adjusted as needed. Approximately three parking spaces would be removed on each side of Westmont Avenue west of Western Avenue. The resulting lane configuration at the eastbound approach would provide one left-turn lane and one shared through/right-turn lane. As shown in *Table 9-2*, these mitigation measures are anticipated to reduce the forecast Ponte Vista at San Pedro project impacts to less than significant levels. A conceptual drawing of the proposed mitigation is provided in *Appendix G*.

This mitigation measure is consistent with the recommended transportation improvements outlined in the Western Corridor Improvement Project report issued by Caltrans for the Western Avenue Task Force and would be implemented by the applicant as a condition of project approval. It is noted that a portion of this intersection is located in the City of Rancho Palos Verdes and is, therefore, outside the jurisdiction of the Lead Agency. Should the City of Rancho Palos Verdes refuse to permit implementation of these feasible traffic mitigation measures, a residual, unmitigated traffic impact would result. Also, Western Avenue is situated within Caltrans' jurisdiction and is therefore outside the jurisdiction of the Lead Agency. Should Caltrans refuse to permit implementation of this feasible traffic mitigation measure, a residual, unmitigated traffic impact would result.

#### Intersection No. 23: Western Avenue/Capitol Drive

The recommended mitigation consists of modifying the northbound approach on Western Avenue at Capitol Drive to accommodate installation of a right-turn only lane. To accommodate the proposed right-turn lane, the existing roadway striping as well as a portion of the raised median on Western Avenue north and south of Capitol Drive, would be adjusted as needed. As shown in *Figure 13-1*, the resulting lane configuration at the northbound approach would provide one left-turn lane, two through lanes, and one right-turn lane. As shown in *Table 9-2*, this mitigation measure is anticipated to reduce the forecast Ponte Vista at San Pedro project impacts to less than significant levels. A conceptual drawing of the proposed mitigation is provided in *Appendix G*.

This mitigation measure is consistent with the recommended transportation improvements outlined in the Western Corridor Improvement Project report issued by Caltrans for the Western Avenue Task Force and would be implemented by the applicant as a condition of project approval. It is noted that a portion of this intersection is located in the City of Rancho Palos Verdes and is, therefore, outside the jurisdiction of the Lead Agency. Should the City of Rancho Palos Verdes refuse to permit implementation of this feasible traffic mitigation measure, a residual, unmitigated traffic impact would result. Also, Western Avenue is situated within Caltrans' jurisdiction and is therefore outside the jurisdiction of the Lead Agency. Should Caltrans refuse to permit implementation of this feasible traffic mitigation measure, a residual, unmitigated traffic impact would result.

#### Intersection No. 26: Western Avenue/Summerland Avenue

The recommended mitigation consists modifying the existing traffic signal to provide a westbound right-turn signal phase on Summerland Avenue that would overlap with the southbound left-turn signal phase on Western Avenue at the Summerland Avenue intersection. As shown in *Table 9-2*, this mitigation measure is anticipated to reduce the forecast Ponte Vista at San Pedro project impacts to less than significant levels.

It is noted that this intersection is located in the City of Rancho Palos Verdes and is, therefore, outside the jurisdiction of the Lead Agency. Should the City of Rancho Palos Verdes refuse to permit implementation of these feasible traffic mitigation measures, a residual, unmitigated traffic impact would result. Also, Western Avenue is situated within Caltrans' jurisdiction and is therefore outside the jurisdiction of the Lead Agency. Should Caltrans refuse to permit implementation of this feasible traffic mitigation measure, a residual, unmitigated traffic impact would result.

#### Intersection No. 36: Vermont Avenue-Palos Verdes Drive North-Gaffey Street/Anaheim Street

The recommended mitigation consists of widening Anaheim Street west of Vermont Avenue to accommodate the installation of a right-turn only lane at the eastbound approach to the intersection. To accommodate the proposed right-turn lane, the south side of Anaheim Street would need to be widened by approximately 12 feet to accommodate a 180-foot long turn pocket. The proposed right-turn only lane would accommodate vehicle movements to Palos Verdes Drive North and Gaffey Street. Enhanced signage would be provided as needed to guide the right-turn motorists from the eastbound Anaheim Street approach to Gaffey Street and Palos Verdes Drive North. As shown in *Figure 13-1*, the resulting lane configuration at the eastbound approach would provide one left-turn lane, one through lane, one shared through/right-turn lane, and one right-turn lane. As shown in *Table 9-2*, this mitigation measure is anticipated to reduce the forecast Ponte Vista at San Pedro project impacts to less than significant levels. A conceptual drawing of the proposed mitigation is provided in *Appendix G*.

#### Intersection No. 37: Gaffey Street/Westmont Drive

The recommended mitigation consists of widening Gaffey Street north of Westmont Drive to accommodate installation of a right-turn only lane. It is noted that the southbound approach on Gaffey Street can be modified to include continuation of the existing bicycle lane and the southbound right-turn only lane. However, it is noted that the southbound near-side Metro bus stop would need to be relocated to the far-side of the intersection (i.e., south of the intersection). As shown in *Figure 13-1*, the resulting lane configuration at the southbound approach would provide one left-turn lane, two through lanes, and one right-turn only lane. An additional mitigation measure is recommended which includes modifying the existing traffic signal to provide a southbound right-turn signal phase on Gaffey Street that would overlap with the eastbound left-turn signal phase on Westmont Drive at the Gaffey Street intersection. As shown in *Table 9-2*, these mitigation measures are anticipated to reduce the forecast Ponte Vista at San Pedro project impacts to less than significant levels. A conceptual drawing of the proposed mitigation is provided in *Appendix G*.



#### Intersection No. 41: Gaffey Street/Summerland Avenue

The recommended mitigation consists of modifying the southbound approach on Gaffey Street at Summerland Avenue to accommodate the installation of a right-turn only lane. To accommodate the proposed right-turn lane, the existing roadway striping would be adjusted as needed. As shown in *Figure 13-1*, the resulting lane configuration at the southbound approach would provide one left-turn lane, two through lanes, and one right-turn lane. An additional mitigation measure is recommended which includes modifying the existing traffic signal to provide a southbound right-turn signal phase on Gaffey Street that would overlap with the eastbound left-turn signal phase on Summerland Avenue at the Gaffey Street intersection. As shown in *Table 9-2*, these mitigation measures are anticipated to reduce the forecast Ponte Vista at San Pedro project impacts to less than significant levels. A conceptual drawing of the proposed mitigation is provided in *Appendix G*.

#### Intersection No. 44: Vermont Avenue/Sepulveda Boulevard

The recommended project mitigation consists of modifying the westbound approach on Sepulveda Boulevard at Vermont Avenue to accommodate the installation of a second left-turn lane. To accommodate the proposed second left-turn lane, the existing raised median on Sepulveda Boulevard, east of Vermont Avenue, would need to be removed. As shown in *Figure 13-1*, the resulting lane configuration at the westbound approach would provide two left-turn lanes, two through lanes, and one shared through/right-turn lane. It is noted that a traffic signal modification would likely be required to accommodate this recommended mitigation measure. As shown in *Table 9-2*, these mitigation measures are anticipated to reduce the forecast Ponte Vista at San Pedro project impacts to less than significant levels. A conceptual drawing of the proposed mitigation is provided in *Appendix G*.

It is noted that this intersection is located in the County of Los Angeles and is, therefore, outside the jurisdiction of the Lead Agency. Should the County of Los Angeles refuse to permit implementation of these feasible traffic mitigation measures, a residual, unmitigated traffic impact would result.

#### Intersection No. 46: Vermont Avenue/Pacific Coast Highway

The recommended mitigation consists of widening Pacific Coast Highway to accommodate the installation of a second left-turn lane at the westbound approach at the Vermont Avenue intersection. To accommodate the proposed second left-turn lane, the north side and south sides of Pacific Coast Highway would need to be widened east and west of Vermont Avenue so as to provide up to a 42-foot half roadway on the 50-foot half right-of-way. The existing traffic signal equipment would be modified and the roadway striping would be adjusted as needed. As shown in *Figure 13-1*, the resulting lane configuration at the westbound approach would provide two left-turn lanes, two through lanes, and one shared through/right-turn lane. As shown in *Table 9-2*, the mitigation measure is anticipated to reduce the forecast Ponte Vista at San Pedro project impacts to less than significant levels. A conceptual drawing of the proposed mitigation is provided in *Appendix G*.

It is noted that Pacific Coast Highway is within Caltrans' jurisdiction and therefore implementation of the traffic mitigation would be outside the jurisdiction of the Lead Agency. Should Caltrans refuse to permit implementation of this feasible traffic mitigation measure, a residual, unmitigated traffic impact would result.

Intersection No. 49: Figueroa Place/Anaheim Street and Intersection No. 48: Figueroa Place/I-110 Freeway Southbound Off-Ramp (north of Anaheim Street)

The recommended mitigation consists modifying the existing traffic signal at Figueroa Place/Anaheim Street to provide a southbound right-turn signal phase on Figueroa Place that would overlap with the eastbound left-turn and through phase sufficiently long enough to accommodate the southbound right-turn volumes. The recommended mitigation is to facilitate access from the I-110 Freeway southbound off-ramp by coordinating operations of these predominant turning movements (i.e., the traffic signals would be coordinated to essentially allow these movements to occur concurrently). As shown in *Table 9-2*, this mitigation measure is anticipated to reduce the forecast Ponte Vista at San Pedro project impacts to less than significant levels.

It should be noted that in conjunction with the traffic signal improvements recommended at the Figueroa Place/Anaheim Street intersection, a traffic signal is proposed for installation as a voluntary project improvement at the Figueroa Place/I-110 Southbound Off-Ramp intersection, which is currently stop sign controlled. The proposed traffic signal at Figueroa Place/I-110 Southbound Off-Ramp intersection will be coordinated with the traffic signal at the Figueroa Place/Anaheim Street intersection to improve vehicular circulation in the area. Standard Caltrans and LADOT traffic signal warrant calculations were prepared for the Figueroa Place/I-110 Southbound Off-Ramp intersection. The determination of whether the installation of a traffic signal is warranted was based on criteria set forth in Chapter 4C of the MUTCD 2003 California Supplement, July 21, 2010 and the City of Los Angeles Manual of Policies and Procedures, October 2005. The traffic signal warrant calculations were based on future forecast peak traffic volumes.

The Peak Hour Volume Warrant is intended for application where traffic conditions are such that for one hour of the day minor street traffic suffers undue delay in entering or crossing the major street. The Peak Hour Volume warrant is satisfied when the plotted point, representing the vehicles per hour on the major street (total of both approaches) and the corresponding vehicles per hour on the higher volume minor street approach (one direction only) for one hour of an average day, falls above the curve in Figure 4C-4 and Figure D for the applicable number of approach lanes.

The plotted points under the future with project conditions for the AM and PM peak hours lie above the applicable curve. Therefore, Warrant 3 is satisfied for the Figueroa Place/I-110 Southbound Off-Ramp intersection. It is noted that the I-110 Southbound Off-Ramp intersection at Figueroa Place is within Caltrans' jurisdiction and therefore implementation of the voluntary installation of a traffic signal at the Figueroa Place/I-110 Southbound Off-Ramp intersection may be outside the jurisdiction of the Lead Agency. Should Caltrans refuse to permit implementation of this feasible traffic mitigation measure, a residual, unmitigated traffic impact would result. The traffic signal warrants

(i.e., Figure 4C-4 and Figure D), as contained in the MUTCD 2003 California Supplement and the City of Los Angeles Manual of Policies and Procedures, are provided in *Appendix G*.

#### Intersection No. 51 Figueroa Street/I-110 Northbound On-Ramp (north of Pacific Coast Highway)

The recommended mitigation consists of modifying the southbound approach on Figueroa Street at the I-110 Northbound On-Ramp to accommodate the installation of a right-turn only lane. To accommodate the proposed right-turn-lane, the existing median and traffic control equipment would be modified and the roadway striping would be adjusted as needed. As shown in *Figure 13-1*, the resulting lane configuration at the southbound approach would provide two through lanes and one right-turn lane. As shown in *Table 9-2*, the mitigation measure is anticipated to reduce the forecast Ponte Vista at San Pedro project impacts to less than significant levels. A conceptual drawing of the proposed mitigation is provided in *Appendix G*.

It is noted that the I-110 Northbound On-Ramp at Figueroa Street (north of Pacific Coast Highway) is within Caltrans' jurisdiction and therefore implementation of the traffic mitigation would be outside the jurisdiction of the Lead Agency. Should Caltrans refuse to permit implementation of this feasible traffic mitigation measure, a residual, unmitigated traffic impact would result.

#### Intersection No. 52: Figueroa Street/Pacific Coast Highway

The recommended mitigation consists of modifying the lane assignments on the westbound approach on Pacific Coast Highway at Figueroa Street to provide a fourth through lane on westbound Pacific Coast Highway. To accommodate the proposed lane assignments, the existing roadway striping would be adjusted as needed. As shown in *Figure 13-1*, the resulting lane configuration at the westbound approach would provide one left-turn lane, three through lanes, and one shared through/right-turn lane. As shown in *Table 9-2*, the mitigation measure is anticipated to reduce the forecast Ponte Vista at San Pedro project impacts to less than significant levels. A conceptual drawing of the proposed mitigation is provided in *Appendix G*.

It is noted that Pacific Coast Highway is within Caltrans' jurisdiction and therefore implementation of the traffic mitigation would be outside the jurisdiction of the Lead Agency. Should Caltrans refuse to permit implementation of this feasible traffic mitigation measure, a residual, unmitigated traffic impact would result.

#### Intersection No. 53: Figueroa Street/I-110 Northbound On-Ramp (north of Anaheim Street)

A traffic signal is proposed at the Figueroa Street/I-110 Northbound On-Ramp intersection (north of Anaheim Street) which is currently stop sign controlled. Standard Caltrans and LADOT traffic signal warrant calculations were prepared for the Figueroa Street/I-110 Northbound On-Ramp intersection. The determination of whether the installation of a traffic signal is warranted was based on criteria set forth in Chapter 4C of the MUTCD 2003 California Supplement, July 21, 2010 and the City of Los Angeles Manual of Policies and Procedures, October 2005. The traffic signal warrant calculations were based on future forecast peak hour traffic volumes. In addition, the

existing roadway striping at the northbound approach to the intersection would be adjusted based on discussions with LADOT staff. As shown in *Figure 13-1*, the resulting lane configuration at the northbound approach would provide one left-turn lane and one shared left-turn/through/right-turn lane.

The Peak Hour Volume Warrant is intended for application where traffic conditions are such that for one hour of the day minor street traffic suffers undue delay in entering or crossing the major street. The Peak Hour Volume warrant is satisfied when the plotted point, representing the vehicles per hour on the major street (total of both approaches) and the corresponding vehicles per hour on the higher volume minor street approach (one direction only) for one hour of an average day, falls above the curve in Figure 4C-4 and Figure D for the applicable number of approach lanes.

The plotted points under the future with project conditions for the AM and PM peak hours lie above the applicable curve. It is noted that the I-110 Northbound On-Ramp at Figueroa Street (north of Anaheim Street) is within Caltrans' jurisdiction and therefore implementation of the traffic mitigation would be outside the jurisdiction of the Lead Agency. Should Caltrans refuse to permit implementation of this feasible traffic mitigation measure, a residual, unmitigated traffic impact would result. Therefore, Warrant 3 is satisfied for the Figueroa Street/I-110 Northbound On-Ramp intersection (north of Anaheim Street). The traffic signal warrants (i.e., Figure 4C-4 and Figure D), as contained in the MUTCD 2003 California Supplement and the City of Los Angeles Manual of Policies and Procedures, are included in *Appendix G*.

The effectiveness of this mitigation measure was assessed through completion of the intersection capacity analyses that assume implementation of the recommended project mitigation measure. As shown in *Table 9-2*, the proposed mitigation measure is anticipated to reduce the forecast Ponte Vista at San Pedro project impacts to less than significant levels.

#### Intersection No. 54: Figueroa Street/Anaheim Street

The recommended mitigation consists of the modifying the westbound approach on Anaheim Street at Figueroa Street to accommodate the installation of a right-turn only lane. To accommodate the proposed right-turn lane, the north side of Anaheim Street would need to be widened by approximately 10 feet to accommodate a 120-foot long turn pocket. The resulting lane configuration at the westbound approach would provide one left-turn lane, two through lanes, and one right-turn lane. As shown in *Table 9-2*, this mitigation measure is anticipated to reduce the forecast Ponte Vista at San Pedro project impacts to less than significant levels. A conceptual drawing of the proposed mitigation is provided in *Appendix G*.

### 13.2 Summary of Cumulative Mitigation – Los Angeles County Analysis

The traffic analyses in the previous section determined that development of the cumulative development projects is anticipated to result in significant impacts at four intersections located within unincorporated Los Angeles County. The recommended cumulative traffic mitigation program developed for these projects includes physical roadway improvements and funding of traffic signal improvements. Pursuant to the County of Los Angeles methodology, the project would be required to participate on a fair share basis towards implementation of these measures to mitigate cumulative traffic impacts. The following paragraphs summarize the recommended cumulative transportation mitigation measures.

#### Intersection No. 32: Normandie Avenue/Sepulveda Boulevard

The recommended cumulative mitigation consists of installation of the County's traffic signal synchronization system for the Normandie Avenue/Sepulveda Boulevard intersection. Similar to the City of Los Angeles ATSAC/ATCS system, the County's synchronization system provides real time control of traffic signals and includes additional loop detectors, closed-circuit television, an upgrade in the communications links and a new generation of traffic control software. It is assumed that the system upgrade reduces the critical  $v/c$  ratios by 10 percent (0.10). As shown in *Table 12-2*, this cumulative mitigation measure is anticipated to reduce the forecast cumulative impacts at the subject study intersection to less than significant levels.

It is noted that this intersection is located in the County of Los Angeles and is, therefore, outside the jurisdiction of the Lead Agency. Should the County of Los Angeles refuse to permit implementation of these feasible cumulative traffic mitigation measures, a residual, unmitigated cumulative traffic impact would result.

#### Intersection No. 33: Normandie Avenue/Lomita Boulevard

The recommended cumulative mitigation consists of modifying the northbound approach on Normandie Avenue at Lomita Boulevard to accommodate the installation of a second left-turn lane. To accommodate the proposed second left-turn lane, the existing raised median on Normandie Avenue, south of Lomita Boulevard, would need to be removed. It is noted that the northbound approach on Normandie Avenue can be modified to include continuation of the existing bicycle lane and the second northbound left-turn only lane. The resulting lane configuration at the northbound approach would provide two left-turn lanes, one through lane, and one shared through/right-turn lane. As shown in *Table 12-2*, this cumulative mitigation measure is anticipated to reduce the forecast cumulative impacts at the subject study intersection to less than significant levels. A conceptual drawing of the proposed mitigation is provided in *Appendix G*.

It is noted that this intersection is located in the County of Los Angeles and is, therefore, outside the jurisdiction of the Lead Agency. Should the County of Los Angeles refuse to permit implementation of these feasible cumulative traffic mitigation measures, a residual, unmitigated cumulative traffic impact would result.

#### Intersection No. 44: Vermont Avenue/Sepulveda Boulevard

The recommended cumulative mitigation consists of modifying the northbound and southbound approaches on Vermont Avenue at Sepulveda Boulevard to accommodate the installation of a second northbound right-turn lane. To accommodate the proposed second right-turn lane at the northbound approach, the existing raised median on Vermont Avenue, south of Sepulveda Boulevard, would need to be removed and the existing raised median on Vermont Avenue, north of the intersection, would need to be modified. The resulting lane configuration at the northbound approach would provide one left-turn lane, two through lanes, and two right-turn lanes. As shown in *Table 12-2*, this cumulative mitigation measure is anticipated to reduce the forecast cumulative impacts at the subject study intersection to less than significant levels. A conceptual drawing of the proposed cumulative mitigation is provided in *Appendix G*.

It is noted that this intersection is located in the County of Los Angeles and is, therefore, outside the jurisdiction of the Lead Agency. Should the County of Los Angeles refuse to permit implementation of these feasible cumulative traffic mitigation measures, a residual, unmitigated cumulative traffic impact would result.

#### Intersection No. 45: Vermont Avenue/Lomita Boulevard

The recommended cumulative mitigation consists of modifying the eastbound approach on Lomita Boulevard, west of Vermont Avenue, to accommodate the installation of a second left-turn lane. To accommodate the proposed second left-turn lane, the existing raised median on Lomita Boulevard, west of Vermont Avenue, would need to be removed and the striping on the east leg of the intersection would need to be modified. The resulting lane configuration at the eastbound approach would provide two left-turn lanes, one through lane, and one shared through/right-turn lane. It is noted that a traffic signal modification would likely be required to accommodate this recommended mitigation measure. As shown in *Table 12-2*, these cumulative mitigation measures are anticipated to reduce the forecast cumulative impacts at the subject study intersection to less than significant levels. If implemented, these improvements are anticipated to reduce the forecast cumulative impacts at the subject study intersection to less than significant levels.

It is noted that this intersection is located in the County of Los Angeles and is, therefore, outside the jurisdiction of the Lead Agency. Should the County of Los Angeles refuse to permit implementation of these feasible cumulative traffic mitigation measures, a residual, unmitigated cumulative traffic impact would result.

#### **13.2.1 Los Angeles County Fair Share Analysis**

The methodology and the calculations of the project's pro-rata percentage at the study intersections that require cumulative improvement measures are summarized in *Table 13-3*. The method used for these calculations is based on the weekday AM and PM peak hour, project generated traffic volumes on the approaches to each affected study intersection divided by the project plus other development (related) project's traffic volumes on those same approaches. It should be noted that neither existing

Table 13-3  
PRO-RATA PERCENTAGE OF MITIGATION COSTS  
CUMULATIVE IMPACTS - UNINCORPORATED LOS ANGELES COUNTY

Pro-Rata Percentage Methodology			
<p>The project's percentage share is derived by dividing project traffic by project plus other development (related) projects traffic. It should be noted that existing traffic volumes are not included in the calculations.</p> <p style="text-align: center;"><u>Project Traffic</u> Project + Other Related Projects Traffic</p> <p>The following equation is provided to assist in calculating the project's pro-rata percentage to implement roadway mitigation improvement measures:</p> <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="flex: 1;"> <math display="block">P = \frac{V_p}{V_p + (V_c - V_e)}</math> </div> <div style="flex: 2;"> <p>where:</p> <p>P = Project's pro-rate percentage of the cumulative mitigation improvement measures</p> <p>Vp = AM and PM Peak Hour volume at the intersection generated by the project</p> <p>Vc = Future Cumulative (other related projects) AM and PM Peak Hour traffic volume at the intersection</p> <p>Ve = Existing and Ambient Growth AM and PM Peak Hour traffic volume (must be subtracted when included in cumulative AM and PM Peak Hour traffic volume)</p> </div> </div>			
Unincorporated Los Angeles County Study Intersection(s) Calculations			
<u>Intersection</u>	<u>AM and PM Traffic Volumes</u>	<u>Calculation</u>	<u>Percentage of Impact</u>
32 <u>Normandie Avenue &amp; Sepulveda Boulevard</u>	Vp = <u>38</u> Vc = <u>11,529</u> Ve = <u>10,427</u>	$I = \frac{38}{(38) + (11,529 - 10,427)} =$	<b>3.3 %</b>
33 <u>Normandie Avenue &amp; Lomita Boulevard</u>	Vp = <u>63</u> Vc = <u>9,731</u> Ve = <u>9,367</u>	$I = \frac{63}{(63) + (9,731 - 9,367)} =$	<b>14.8 %</b>
44 <u>Vermont Avenue &amp; Sepulveda Boulevard</u>	Vp = <u>44</u> Vc = <u>13,544</u> Ve = <u>12,552</u>	$I = \frac{44}{(44) + (13,544 - 12,552)} =$	<b>4.2 %</b>
45 <u>Vermont Avenue &amp; Lomita Boulevard</u>	Vp = <u>75</u> Vc = <u>9,072</u> Ve = <u>8,541</u>	$I = \frac{75}{(75) + (9,072 - 8,541)} =$	<b>12.4 %</b>

traffic volumes nor ambient growth traffic volumes are included in the calculations. As shown in *Table 13-3*, the proposed project's fair share contribution toward the cumulative improvements is as follows:

- Intersection 32: Normandie Avenue/Sepulveda Boulevard = 3.3%
- Intersection 33: Normandie Avenue/Lomita Boulevard = 14.8%
- Intersection 44: Vermont Avenue/Sepulveda Boulevard = 4.2%
- Intersection 45: Vermont Avenue/Lomita Boulevard = 12.4%

### 13.3 Transportation Mitigation Measures Sequencing Plan

The project proposes a sequencing plan related to the implementation of the transportation mitigation measures recommended herein. Depending on market conditions and community needs, it is possible that the number and type of residential units (i.e., detached condominium, apartment or multi-family condominium) included in the project development program will be developed on a phased basis to meet future demand. Therefore, the purpose of the sequencing plan is to ensure that adequate mitigation measures from those identified are implemented to mitigate traffic impacts associated with new weekday PM peak hour trips with new project-related development as it actually takes place.

The implementation of transportation mitigation measures is planned to occur based on new weekday PM peak hour trips for three phases.

- Phase 1: Mitigation Required before 1 PM peak hour trip
- Phase 2: Mitigation Required before 151 PM peak hour trips
- Phase 3: Mitigation Required before 301 PM peak hour trips
- Project Build-Out: Mitigation Required before 451 PM peak hour trips

Thus, as outlined above, the Phase 1 mitigation would accommodate between 1 and 150 new PM peak hour trips (and proportional AM peak hour and Saturday peak hour trips) generated by the site. Similarly, Phase 2 mitigation would accommodate between 151 and 300 new PM peak hour trips generated by the site, etc. A summary of the sequencing plan Phase 1, Phase 2 and Phase 3 trip generation forecasts is provided in **Appendix H** (refer to *Appendix Table H-1*).

Traffic impact analyses prepared for the 56 study intersections using the LADOT CMA methodology and application of the City of Los Angeles significant traffic impact criteria were prepared for all four mitigation sequencing plan phases (i.e., Phases 1, 2 and 3 as well as project build-out). Summaries of the v/c ratios LOS values for the study intersections by sequencing plan phase are contained in *Appendix H* (refer to *Appendix Tables H-2, H-3 and H-4* for sequencing plan



Phases 1, 2 and 3, respectively). As previously discussed, summaries of the  $v/c$  ratios LOS values for the study intersections for project build-out are contained in *Tables 9-1* and *9-2*. A summary of intersection impacts under the mitigation sequencing plan is provided by phase and PM peak hour trips in **Table 13-4**. As indicated in *Table 13-4*, a total of 5 intersections is forecast to be impacted under Phase 1 (i.e., required for implementation prior to 1 new PM peak hour trip), a total of 9 intersections is forecast to be impacted under Phase 2 (i.e., required for implementation prior to 151 new PM peak hour trips), and a total of 16 intersections is forecast to be impacted under Phase 3 (i.e., required for implementation prior to 301 new PM peak hour trips).

**Table 13-4**  
**SUMMARY OF IMPACTS BY MITIGATION SEQUENCING PLAN PHASING**

INT. NO.	LOCATION	IMPACTED INTERSECTIONS BY SEQUENCING PLAN PHASE			
		PHASE 1: 1 PM TRIP TO 150 PM TRIPS	PHASE 2: 151 PM TRIPS TO 300 PM TRIPS	PHASE 3: 301 PM TRIPS TO 450 PM TRIPS	BUILD-OUT: 451 PM TRIPS TO 699 PM TRIPS
6	Crenshaw Boulevard/ Pacific Coast Highway	----	----	----	YES
7	Crenshaw Boulevard/ Palos Verdes Drive North	----	----	YES	YES
12	Western Avenue/ Lomita Boulevard	----	YES	YES	YES
13	Western Avenue/ Pacific Coast Highway	YES	YES	YES	YES
15	Western Avenue/ Palos Verdes Drive North	YES	YES	YES	YES
16	Western Avenue/ Peninsula Verde Drive	YES	YES	YES	YES
19	Western Avenue/ Fitness Drive	----	----	----	YES
20	Western Avenue/ Westmont Drive	----	YES	YES	YES
23	Western Avenue/ Capitol Drive	----	----	YES	YES
26	Western Avenue/ Summerland Avenue	----	----	----	YES
36	Vermont Avenue-Palos Verdes Drive North -Gaffey Street/Anaheim Street	----	YES	YES	YES
37	Gaffey Street/ Westmont Drive	----	YES	YES	YES
41	Gaffey Street/ Summerland Avenue	----	----	YES	YES
44	Vermont Avenue/ Sepulveda Boulevard	----	----	----	YES
46	Vermont Avenue/ Pacific Coast Highway	----	----	YES	YES
49	Figueroa Place/ Anaheim Street (includes Int. No. 48)	YES	YES	YES	YES
51	Figueroa Street/ I-110 Northbound On-Ramp (north of PCH)	----	----	YES	YES
52	Figueroa Street/ Pacific Coast Highway	----	----	YES	YES
53	Figueroa Street/ I-110 NB On-Ramp (north of Anaheim Street)	YES	YES	YES	YES
54	Figueroa Street/ Anaheim Street	----	----	YES	YES

## 14.0 CONGESTION MANAGEMENT PROGRAM TRAFFIC IMPACT ASSESSMENT

The Congestion Management Program (CMP) is a state-mandated program that was enacted by the State Legislature with the passage of Proposition 111 in 1990. The program is intended to address the impact of local growth on the regional transportation system.

As required by the 2010 Congestion Management Program for Los Angeles County, a Traffic Impact Assessment (TIA) has been prepared to determine the potential impacts on designated monitoring locations on the CMP highway system. The analysis has been prepared in accordance with procedures outlined in the *2010 Congestion Management Program for Los Angeles County*, County of Los Angeles Metropolitan Transportation Authority, October 2010.

### 14.1 Intersections

The following CMP intersection monitoring locations in the project vicinity have been identified:

<u>CMP Station</u>	<u>Intersection</u>
Int. No. 45	Gaffey Street/9 <sup>th</sup> Street (Study Int. No. 43)
Int. No. 56	Figueroa Street/Pacific Coast Highway (Study Int. No. 52)
Int. No. 58	Western Avenue/Pacific Coast Highway (Study Int. No. 13)
Int. No. 84	Western Avenue/9 <sup>th</sup> Street (Study Int. No. 29)
Int. No. 128	Western Avenue/Toscanini Drive (Study Int. No. 21)
Int. No. 150	Hawthorne Boulevard/Sepulveda Boulevard (Study Int. No. 1)
Int. No. 151	Crenshaw Boulevard/Pacific Coast Highway (Study Int. No. 6)
Int. No. 152	Hawthorne Boulevard/Pacific Coast Highway (Study Int. No. 2)
Int. No. 156	Western Avenue/Sepulveda Boulevard (Study Int. No. 11)

The CMP traffic impact assessment guidelines require that intersection monitoring locations must be examined for potential CMP traffic impacts if the proposed project will add 50 or more trips to a CMP monitoring location during either the AM or PM weekday peak hours. As shown in *Figures 7-2 and 7-3*, the proposed project is forecast to add 50 or more trips during the AM or PM peak hours at the CMP monitoring intersections which is the threshold for preparing a traffic impact assessment, as stated in the CMP manual. Thus, a review of the potential impacts at the CMP intersection monitoring locations that are part of the CMP highway system is provided herein.

The CMP TIA significance criteria indicates that a significant impact occurs when the proposed project's traffic increases demand at a CMP arterial monitoring location by 2 percent of capacity (i.e.,  $v/c$  increase  $>$  or equal to 0.02), causing the location to operate at LOS F ( $v/c > 1.00$ ). Under CMP TIA criteria, a project would not have significant impact if the analyzed monitoring location is operating at LOS E or better after the addition of project traffic.

The nine CMP monitoring intersections were evaluated using the ICU method of analysis that determines  $v/c$  ratios on a critical lane basis. As previously discussed, the overall intersection  $v/c$  ratio is subsequently assigned a LOS value to describe intersection operations in the ICU methodology. Level of Service varies from LOS A (free flow) to LOS F (jammed condition). A description of the ICU method and corresponding Level of Service is provided in *Appendix I*.

As shown in *Table 14-1*, the Western Avenue/Pacific Coast Highway CMP monitoring intersection is anticipated to be significantly impacted by the proposed project applying the CMP TIA significant impact criteria. However, the mitigation measures described in Section 13.0 for the Western Avenue/Pacific Coast Highway (Study Intersection No. 13) intersection are anticipated to reduce the forecast project-related impact to less than significant levels. Therefore, no residual CMP traffic impacts due to the proposed project are anticipated at the CMP monitoring intersections. Copies of the CMA data worksheets for the CMP monitoring intersections are provided in *Appendix I*.

## 14.2 Freeways

Four CMP freeway monitoring locations in the project vicinity have been identified:

<u>CMP Station</u>	<u>Segment</u>
Seg. No. 1045	I-110 Freeway at Wilmington Boulevard south of C Street
Not Applicable <sup>13</sup>	I-110 Freeway north of Sepulveda Boulevard
Seg. No. 1067	I-405 Freeway south of I-110 Freeway
Seg. No. 1068	I-405 Freeway north of Inglewood Avenue

The CMP TIA guidelines require that freeway monitoring locations must be examined for CMP traffic impacts if the proposed project will add 150 or more trips (in either direction) during either the AM or PM weekday peak hours. However, as shown in *Table 14-2*, the proposed project will not add 150 or more trips (in either direction) during either the AM or PM weekday peak hours to the CMP freeway monitoring locations which is the threshold for preparing a traffic impact assessment, as stated in the CMP manual. Therefore, no further review of potential CMP traffic impacts to freeway monitoring locations that are part of the CMP highway system is required.

<sup>13</sup> Although the I-110 Freeway north of Sepulveda Boulevard freeway segment is not identified in the CMP as a monitoring station, this segment was identified for review based on the distribution and assignment of forecast project-related trips.

Table 14-1  
CMP MONITORING LOCATION - SUMMARY OF VOLUME TO CAPACITY RATIOS  
AND LEVELS OF SERVICE  
AM AND PM PEAK HOURS

NO.	INTERSECTION	PEAK HOUR	[1]		[2]			[3]			[4]			[5]		[6]			[7]						
			YEAR 2010 EXISTING V/C	LOS	YEAR 2010 EXISTING W/PROJECT V/C	LOS	CHANGE V/C [2(2+0)]	SIGNIF. IMPACT	YEAR 2010 EXIST. W/PROJ MITIGATION V/C	LOS	CHANGE V/C [3(3+1)]	MITL- GATED	YEAR 2017 W/AMBIENT GROWTH V/C	LOS	YEAR 2017 PRE-PROJECT V/C	LOS	YEAR 2017 W/PROJECT V/C	LOS	CHANGE V/C [6(6+5)]	SIGNIF. IMPACT	YEAR 2017 W/PROJECT MITIGATION V/C	LOS	CHANGE V/C [7(7+5)]	MITL- GATED	
1	Hawthorne Boulevard/ Sepulveda Boulevard	AM PM	0.749 0.854	C D	0.750 0.854	C D	0.001 0.000	NO NO	0.750 0.854	C D	0.001 0.000	---	0.801 0.913	D E	0.860 1.003	D F	0.861 1.003	D F	0.001 0.000	NO NO	0.861 1.003	D F	0.001 0.000	---	---
2	Hawthorne Boulevard/ Pacific Coast Highway	AM PM	0.832 0.808	D D	0.836 0.810	D D	0.004 0.002	NO NO	0.836 0.810	D D	0.004 0.002	---	0.890 0.865	D D	0.997 0.971	E E	1.002 0.973	F E	0.005 0.002	NO NO	1.002 0.973	F E	0.005 0.002	---	---
6	Crenshaw Boulevard/ Pacific Coast Highway	AM PM	0.993 1.035	E F	0.995 1.042	E F	0.002 0.007	NO NO	0.995 1.042	E F	0.002 0.007	---	1.062 1.108	F F	1.111 1.235	F F	1.113 1.242	F F	0.002 0.007	NO NO	1.113 1.242	F F	0.002 0.007	---	---
11	Western Avenue/ Sepulveda Boulevard	AM PM	0.890 0.963	D E	0.895 0.967	D E	0.005 0.004	NO NO	0.895 0.967	D E	0.005 0.004	---	0.846 0.924	D E	0.919 1.009	E F	0.924 1.016	E F	0.005 0.007	NO NO	0.924 1.016	E F	0.005 0.007	---	---
13	Western Avenue/ Pacific Coast Highway	AM PM	0.953 0.919	E E	0.986 0.963	E E	0.033 0.044	NO NO	0.986 0.963	E E	0.033 0.044	---	0.913 0.876	E D	0.991 0.953	E E	1.018 0.997	F E	0.027 0.044	YES NO	0.964 0.930	E E	-0.027 -0.023	YES	---
21	Western Avenue/ Toscanini Drive	AM PM	0.748 0.609	C B	0.754 0.618	C B	0.006 0.009	NO NO	0.754 0.618	C B	0.006 0.009	---	0.800 0.651	C B	0.824 0.677	D B	0.829 0.686	D B	0.005 0.009	NO NO	0.829 0.686	D B	0.005 0.009	---	---
29	Western Avenue/ 9th Street	AM PM	0.583 0.706	A C	0.583 0.707	A C	0.000 0.001	NO NO	0.583 0.707	A C	0.000 0.001	---	0.517 0.648	A B	0.528 0.661	A B	0.528 0.663	A B	0.000 0.002	NO NO	0.528 0.663	A B	0.000 0.002	---	---
43	Gaffey Street/ 9th Street	AM PM	0.812 0.737	D C	0.813 0.741	D C	0.001 0.004	NO NO	0.813 0.741	D C	0.001 0.004	---	0.762 0.682	C B	0.960 0.905	E E	0.961 0.908	E E	0.001 0.003	NO NO	0.961 0.908	E E	0.001 0.003	---	---
52	Figuerola Street/ Pacific Coast Highway	AM PM	0.966 0.954	E E	0.983 0.966	E E	0.017 0.012	NO NO	0.983 0.966	E E	0.017 0.012	---	0.927 0.914	E E	1.045 1.019	F F	1.062 1.031	F F	0.017 0.012	NO NO	1.062 1.031	F F	0.017 0.012	---	---

Table 14-2  
CMP FREEWAY SEGMENT ANALYSIS

CMP STATION	FREEWAY SEGMENT	PEAK HOUR	DIRECTION	PROJECT TRIP ENDS	CMP FREEWAY TIA THRESHOLD (TRIPS)	CMP FREEWAY TIA REQUIRED?
1045	I-110 Freeway at Wilmington Boulevard south of C Street (CMP Monitoring Location)	AM	NB	0	150	NO
			SB	6	150	NO
		PM	NB	0	150	NO
			SB	23	150	NO
[1]	I-110 Freeway, north of Sepulveda Boulevard	AM	NB	124	150	NO
			SB	30	150	NO
		PM	NB	65	150	NO
			SB	124	150	NO
1067	I-405 Freeway, south of I-110 @ Carson Scales (CMP Monitoring Location)	AM	NB	2	150	NO
			SB	9	150	NO
		PM	NB	9	150	NO
			SB	5	150	NO
1068	I-405 Freeway, north of Inglewood Avenue (CMP Monitoring Location)	AM	NB	50	150	NO
			SB	12	150	NO
		PM	NB	27	150	NO
			SB	50	150	NO

[1] Although this segment is not identified in the CMP as a monitoring station, the segment was identified for review based on the distribution and assignment of forecast project-related trips.

### 14.3 Transit Impact Review

As required by the *2010 Congestion Management Program for Los Angeles County*, a review has been made of the CMP transit service. As previously discussed, existing transit service is provided in the vicinity of the proposed project. It is noted that the CMP does not provide threshold of significance criteria for transit impacts. Therefore, this transit impact review is provided for informational purposes.

The project trip generation, as shown in *Table 7-1*, was adjusted by values set forth in the CMP (i.e., person trips equal 1.4 times vehicle trips, and transit trips equal 3.5 percent of the total person trips) to estimate transit trip generation. Pursuant to the CMP guidelines, the proposed project is forecast to generate demand for 26 new transit trips (5 inbound trips and 23 outbound trips) during the weekday AM peak hour. During the PM peak hour, the proposed project is forecast to generate demand for 34 new transit trips (22 inbound trips and 12 outbound trips). Over a 24-hour period, the proposed project is forecast to generate a demand of 366 daily transit trips. The calculations are as follows:

- AM Peak Hour Trips =  $571 \times 1.4 \times 0.035 = 28$  Transit Trips
- PM Peak Hour Trips =  $699 \times 1.4 \times 0.035 = 34$  Transit Trips
- Daily Trips =  $7,468 \times 1.4 \times 0.035 = 366$  Transit Trips

It is anticipated that the existing transit service in the project area will adequately accommodate the project generated transit trips. Based on the existing transit services provided in the project area, there are currently 14 buses per hour serving the project site during the AM peak hour and 12 buses per hour serving the project site during the PM peak hour. Thus, the project will add approximately two new transit riders per bus during the AM peak hour and two to three new transit riders per bus during the PM peak hour. Given the relatively few number of generated transit trips generated during the peak hours, no project impacts on existing or future transit services in the project area are expected to occur as a result of the proposed project.

While not required to mitigate potential traffic impacts, the following improvements and steps are recommended to enhance public transit service at the project site:

- In conjunction with the street widening of Western Avenue adjacent to the project site, provide a bus turnout lane and bus stop facilities (shelter, schedule information) at bus stops adjacent to the project site.

Coordinate with LADOT to potentially extend the existing San Pedro DASH route northerly on Western Avenue to serve the project site. If necessary, the project should provide appropriate turnaround facilities to allow the DASH vehicles to utilize the project site as an end point on the route.

## 15.0 CALTRANS FREEWAY ANALYSIS

As requested by Caltrans, additional traffic analysis of the project's potential impacts on the I-110 Freeway was conducted per guidelines documented in Caltrans' *Guide for the Preparation of Traffic Impact Studies*, June 2001. In accordance with the Caltrans guidelines, the "Operational Analysis" method from the *Highway Capacity Manual* (HCM) (Transportation Research Board, 2000) was utilized to perform the freeway analysis. The HCM freeway operation analysis method determines the passenger car per mile per lane (pc/mi/ln) density on the freeway segment. The HCM freeway analysis worksheets are contained in **Appendix J**.

The following two freeway segments were analyzed using the Caltrans guidelines:

- I-110 Freeway at Wilmington Boulevard, south of C Street
- I-110 Freeway north of Sepulveda Boulevard

Year 2009 traffic counts for the two subject I-110 Freeway segments were obtained from the Caltrans *2009 Traffic Volumes on California State Highways*, 2010. The year 2009 traffic count data were adjusted upward by 0.64% per year to reflect year 2010 conditions. The derived year 2010 traffic counts were adjusted upward by 0.51% per year to reflect year 2017 conditions.

As shown in **Table 15-1**, the I-110 Freeway at Wilmington Boulevard is currently operating at LOS B in the northbound and southbound directions during the weekday AM and PM peak hours. The I-110 Freeway north of Sepulveda Boulevard is operating at LOS D in the northbound direction and LOS C in the southbound direction during the weekday AM peak hour. During the weekday PM peak hour, the I-110 Freeway north of Sepulveda Boulevard is operating at LOS C in the northbound direction and LOS D in the southbound direction. The addition of project generated traffic to the analyzed freeway segments under the "Existing With Project" conditions is expected to nominally increase the density between 0.1 and 0.7 pc/mi/ln during the weekday AM and PM peak hours. It is anticipated that the proposed project would not generate any significant impacts on the analyzed freeway segments in the Existing With Project scenario. The freeway segments are projected to continue operating at the same LOS as described in the existing conditions with the addition of project generated traffic to the analyzed freeway segments.

As also shown in **Table 15-1**, the I-110 Freeway at Wilmington Boulevard is forecast to operate at LOS B in both directions during the weekday AM and PM peak hours in the future pre-project condition (i.e., Year 2017 With Ambient Growth scenario). The I-110 Freeway north of Sepulveda Boulevard is forecast to operate at LOS D in the northbound direction and LOS C in the southbound direction during the weekday AM peak hour in the future pre-project condition. During the weekday PM peak hour, the I-110 Freeway north of Sepulveda Boulevard is forecast to operate at LOS C in the northbound direction and LOS D in the southbound direction in the future pre-project condition. The addition of project generated traffic to the analyzed freeway segments under the "Year 2017 With Proposed Project" conditions is expected to nominally increase the density between 0.1 and 0.9 pc/mi/ln during the weekday AM and PM peak hours. It is anticipated that the proposed project



Table 15-1  
CALTRANS FREEWAY SEGMENT ANALYSIS

CMP STATION	FREEWAY SEGMENT	PEAK HOUR	DIR	LANES	YEAR 2010 EXISTING [1]			YEAR 2010 EXISTING WITH PROJECT			DENSITY INCREASE WITH PROJECT	SIGNIF. PROJECT IMPACT?	YEAR 2017 WITH AMBIENT GROWTH [2]			YEAR 2017 WITH PROPOSED PROJECT			DENSITY INCREASE WITH PROJECT	SIGNIF. PROJECT IMPACT?
					VOLUME	DENSITY	LOS	PROJECT TRIP ENDS	VOLUME	DENSITY	LOS		VOLUME	DENSITY	LOS	PROJECT TRIP ENDS	VOLUME	DENSITY		
1045	I-110 Freeway at Wilmington Blvd. south of C Street	AM	NB	4	4,309	15.7	B	0	4,309	15.7	B	0.0	4,463	16.4	B	0	4,463	16.4	0.0	NO
				4	3,176	11.6	B	6	3,182	11.6	B	0.0	3,289	12.1	B	6	3,295	12.1	0.0	NO
		PM	NB	4	2,899	10.6	A	0	2,899	10.6	A	0.0	3,002	11.0	B	0	3,002	11.0	0.0	NO
				4	4,149	15.1	B	23	4,172	15.2	B	0.1	4,297	15.8	B	23	4,320	15.9	0.1	NO
[3]	I-110 Freeway north of Sepulveda Blvd.	AM	NB	4	7,817	30.7	D	124	7,941	31.5	D	0.8	8,096	33.0	D	124	8,220	33.9	0.9	NO
				4	6,013	22.0	C	30	6,043	22.1	C	0.1	6,228	23.1	C	30	6,258	23.2	0.1	NO
		PM	NB	4	5,441	19.8	C	65	5,506	20.1	C	0.3	5,635	20.8	C	65	5,700	21.0	0.2	NO
				4	7,421	28.4	D	124	7,545	29.1	D	0.7	7,686	30.3	D	124	7,810	31.1	0.8	NO

[1] Based on year 2009 volumes provided in "2009 Traffic Volumes on California State Highways", Caltrans, May 2009. The year 2009 volumes were increased by an ambient growth rate of 0.64% per year to reflect year 2010 existing conditions.

[2] Based on the CMP traffic volume growth factors for the Palos Verde area, an ambient growth rate of 0.51% per year was used to derive the year 2017 volume.

[3] Although this segment is not identified in the CMP as a monitoring station, the segment was identified for review based on the distribution and assignment of forecast project-related trips.

would not generate any significant impacts on the analyzed freeway segments in the Year 2017 With Proposed Project scenario. The freeway segments are projected to continue operating at the same LOS as described in the future pre-project conditions with the addition of project generated traffic to the analyzed freeway segments.

The Caltrans Guidelines do not recommend a significance threshold for purposes of assessing the potential traffic impacts of development projects to the state highway system. However, the City of Los Angeles (i.e., the Lead Agency) has adopted the CMP thresholds for purposes of reviewing the significance of project-related traffic impacts on freeway segments. As shown in *Table 15-1*, the I-110 Freeway analyzed segments are forecast to operate at LOS D or better in future with project conditions, which is considered acceptable under the CMP significance thresholds. Therefore, this analysis of freeway segments using the analysis procedures recommended in the Caltrans guidelines reiterates the previous finding of a less than significant traffic impact to the freeway segments due to the proposed project.

## 16.0 CONCLUSIONS

This traffic analysis for the proposed Ponte Vista project has been prepared to identify and evaluate the potential traffic impacts for the proposed Ponte Vista at San Pedro project. Application of the City's threshold criteria to the "With Proposed Project" scenario indicates that 20 of the 56 study intersections are anticipated to be significantly impacted by the proposed project. Incremental but not significant impacts are noted at the remaining study intersections. Project-related mitigation measures have been recommended for the forecast impacted study intersections to reduce the forecast combined effects of the Ponte Vista project, including the relocation of the Mary Star High School access point, to less than significant levels.

**APPENDIX NO. 5**  
**Infrastructure Plans and Programs**





PROPOSED UTILITIES

NO.	REVISIONS	APP'D.	DATE

**FUSCOE**  
ENGINEERING  
600 Wilshire, Suite 1470, Los Angeles, California 90017  
tel 213.988.8802 • fax 213.988.8803 • www.fuscoee.com

REGISTERED PROFESSIONAL ENGINEER  
No. C4988  
Exp. 09/30/14  
CIVIL  
STATE OF CALIFORNIA

**VESTING TENTATIVE TRACT MAP  
TRACT NO. 71886**

**PROPOSED UTILITIES**

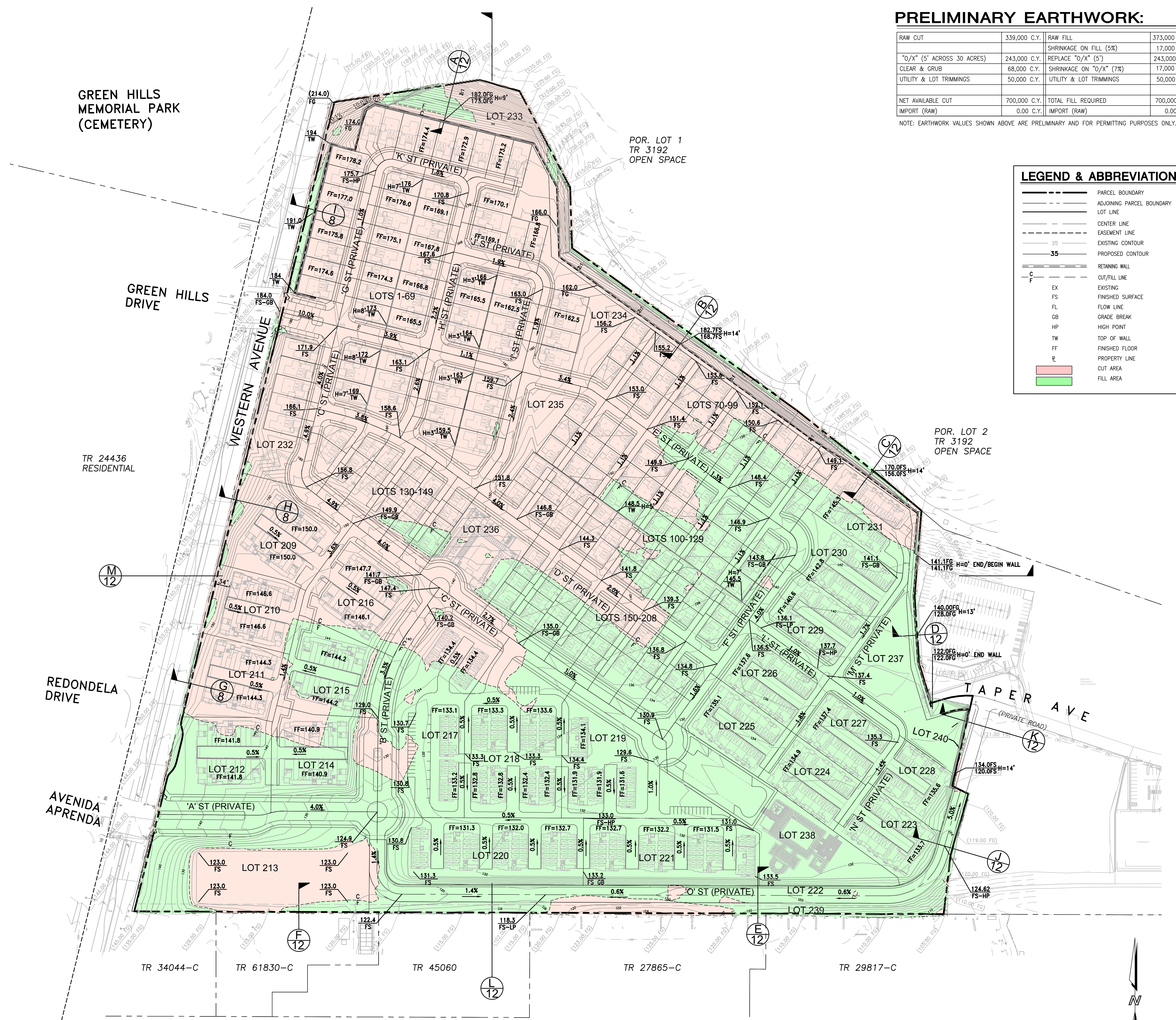
DRAWN:	MN
DESIGN:	MN
CHECKED:	AW
SCALE:	AS SHOWN
JOB NO.:	1108.01
DATE:	09/25/13
<b>SHEET 10 OF 13</b>	

**APPENDIX NO. 6**  
**Preliminary Grading Plan**

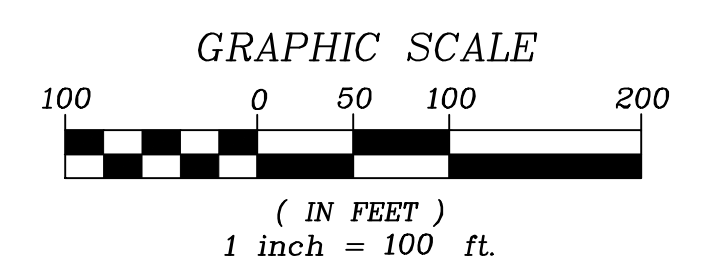
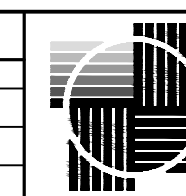


RAW CUT	339,000 C.Y.	RAW FILL	373,000 C.Y.
		SHRINKAGE ON FILL (5%)	17,000 C.Y.
"O/X" (5' ACROSS 30 ACRES)	243,000 C.Y.	SHRINK "O/X" (5')	243,000 C.Y.
CLEAR & GRUB	68,000 C.Y.	REPLACE ON "O/X" (7%)	17,000 C.Y.
UTILITY & LOT TRIMMINGS	50,000 C.Y.	UTILITY & LOT TRIMMINGS	50,000 C.Y.
NET AVAILABLE CUT	700,000 C.Y.	TOTAL FILL REQUIRED	700,000 C.Y.
IMPORT (RAW)	0.00 C.Y.	IMPORT (RAW)	0.00 C.Y.

	PARCEL BOUNDARY
	ADJOINING PARCEL BOUNDARY
	LOT LINE
	CENTER LINE
	EASEMENT LINE
	EXISTING CONTOUR
	PROPOSED CONTOUR
	RETAINING WALL
	CUT/FILL LINE
	EXISTING
	FINISHED SURFACE
	FLOW LINE
	GRADE BREAK
	HIGH POINT
	TOP OF WALL
	FINISHED FLOOR
	PROPERTY LINE
	CUT AREA
	FILL AREA



## PRELIMINARY GRADING

[illegible]

**FUSCOE**

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**VESTING TENTATIVE TRACT MAP  
TRACT NO. 71886**

## PRELIMINARY GRADING

DRAWN:	MN
DESIGN:	MN
CHECKED:	AW
SCALE:	AS SHOWN
JOB NO.:	1108.01
DATE:	09/25/13

**SHEET 8 OF 13**



**APPENDIX NO. 7**  
**Mitigation Monitoring and Reporting Program**



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## V. MITIGATION MONITORING AND REPORTING PROGRAM

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### A. INTRODUCTION

Section 21081.6 of the Public Resources Code requires a Lead Agency to adopt a “reporting or monitoring program for the changes made to the project or conditions of project approval, adopted in order to mitigate or avoid significant effects on the environment” (Mitigation Monitoring and Reporting Program).

Section 15097 of the *CEQA Guidelines* provides additional direction on mitigation monitoring or reporting):

#### ***15097. MITIGATION MONITORING OR REPORTING.***

*(a) This section applies when a public agency has made the findings required under paragraph (1) of subdivision (a) of Section 15091 relative to an EIR or adopted a mitigated negative declaration in conjunction with approving a project. In order to ensure that the mitigation measures and project revisions identified in the EIR or negative declaration are implemented, the public agency shall adopt a program for monitoring or reporting on the revisions which it has required in the project and the measures it has imposed to mitigate or avoid significant environmental effects. A public agency may delegate reporting or monitoring responsibilities to another public agency or to a private entity which accepts the delegation; however, until mitigation measures have been completed the lead agency remains responsible for ensuring that implementation of the mitigation measures occurs in accordance with the program.*

The City of Los Angeles is the Lead Agency for the Project. Any agency listed below is assumed to be within the City of Los Angeles, unless its jurisdiction is listed separately.

An Environmental Impact Report (EIR) has been prepared to address the potential environmental impacts of the Project. This Mitigation Monitoring and Reporting Program (MMRP) is designed to monitor implementation of the mitigation measures identified for the Project. The MMRP is subject to review and approval by the Lead Agency as part of the certification of the EIR and adoption of project conditions. The required mitigation measures are listed and categorized by impact area, as identified in the Draft EIR and Final EIR, with an accompanying identification of the following:

- Monitoring Phase, the phase of the Project during which the mitigation measure shall be monitored;
  - Pre-Construction, including the design phase
  - Construction
  - Pre-Occupancy (prior to issuance of a Certificate of Occupancy)

- Occupancy (post-construction)
- Enforcement Agency, the agency with the power to enforce the mitigation measure; and
- Monitoring Agency, the agency to which reports including feasibility, compliance, implementation, and development are made.
- Monitoring Frequency, the frequency at which the mitigation measure shall be monitored.
- Action(s) Indicating Compliance, the action(s) of which the Enforcement or Monitoring Agency indicates that compliance with the identified mitigation measure has been implemented.

The Project Applicant shall be responsible for implementing all mitigation measures unless otherwise noted. The MMRP performance shall be monitored annually to determine the effectiveness of the measures implemented in any given year and reevaluate the mitigation needs for the upcoming year.

### **Program Modification**

After review and approval of the MMRP by the Lead Agency, minor changes and modifications to the MMRP are permitted, but can only be made by the Applicant or its successor(s) subject to approval by the City of Los Angeles. This flexibility is necessary due to the nature of the MMRP, and the need to protect the environment with a workable program. The Lead Agency, in conjunction with any appropriate agencies or departments, will determine the adequacy of any proposed change or modification. No changes will be permitted unless the MMRP continues to satisfy the requirements of CEQA, as determined by the Lead Agency.

## **B. MITIGATION MONITORING AND REPORTING PROGRAM**

### **Section IV.A. Impacts Found to be Less Than Significant**

No mitigation measures required.

### **Section IV.B. Aesthetics**

No mitigation measures required.

### **Section IV.C. Air Quality**

**AQ-1** The following equipment specifications shall be implemented for construction activity, consistent with recent SCAQMD recommendations.<sup>1</sup> If these exact specifications cannot be feasibly attained, the Project Applicant shall include a comparable measure demonstrating an equivalent effectiveness at reducing construction related air quality emissions.

- Three excavators shall meet Tier 3 off-road emissions standards;
- One grader shall meet Tier 3 off-road emissions standards;
- Two scrapers shall meet Tier 3 off-road emissions standards; and
- Six rubber-tired dozers shall meet Tier 3 off-road emissions standards and Diesel Particulate Filters (DPF) Level 2.<sup>2</sup>

<b>Monitoring Phase:</b>	Construction
<b>Enforcement Agency:</b>	Department of Building and Safety
<b>Monitoring Agency:</b>	Department of Building and Safety
<b>Monitoring Frequency:</b>	Quarterly, during the time the listed equipment will be used
<b>Action Indicating Compliance:</b>	Compliance report submitted by contractor

**AQ-2** The Project Applicant shall ensure that construction contractors use super-compliant architectural coatings as defined by the SCAQMD (VOC standard of less than ten grams per liter).<sup>3</sup>

<b>Monitoring Phase:</b>	Construction
<b>Enforcement Agency:</b>	Department of Building and Safety
<b>Monitoring Agency:</b>	Department of Building and Safety

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<sup>1</sup> Based on a review of SCAQMD Project-level comment letters published in 2011; <http://www.aqmd.gov/ceqa/letters.html>, accessed April 13, 2011.

<sup>2</sup> SCAQMD off-road mitigation measures; <http://www.aqmd.gov/ceqa/handbook/mitigation/offroad/TableII.xls>; and <http://www.aqmd.gov/ceqa/handbook/mitigation/offroad/TableIII.doc>; accessed April 13, 2011.

<sup>3</sup> SCAQMD, Super-Compliant Architectural Coatings Manufacturers and Industrial Maintenance Coatings List, <http://www.aqmd.gov/prdas/Coatings/super-compliantlist.htm>.

**Monitoring Frequency:** Once, for each phase of development

**Action Indicating Compliance:** Compliance report submitted by contractor prior to use

**AQ-3** The Project shall provide electric outlets on residential balconies and common areas for electric barbeques to the extent that such uses are permitted on balconies and common areas per the Covenants, Conditions and Restrictions recorded for the property.

**Monitoring Phase:** Construction

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of Building and Safety

**Monitoring Frequency:** Once, for each phase of development

**Action Indicating Compliance:** Compliance report submitted by contractor prior to use

**AQ-4** The Project shall use electric lawn mowers and leaf blowers, and electric or alternatively fueled sweepers with HEPA filters, for maintenance of the Project.

**Monitoring Phase:** Occupancy

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of Building and Safety

**Monitoring Frequency:** Annual

**Action Indicating Compliance:** Compliance report submitted by Project Homeowners Association

#### **Section IV.D. Biological Resources**

**BIO-1** Potential impacts to nesting birds, migratory birds, and raptors shall be avoided either by scheduling grading, vegetation removal and demolition during the non-nesting period (August 30<sup>th</sup> through February 14<sup>th</sup>), or if this is not feasible, by conducting a pre-construction survey for

raptor nests and avoiding disturbance of active nests. Provisions of the pre-construction survey and nest avoidance, if necessary, shall include the following:

- If grading or vegetation removal is scheduled during the active nesting period (February 15<sup>th</sup> through August 31<sup>st</sup>), a qualified wildlife biologist shall conduct a pre-construction raptor and nesting bird survey no more than 30 days prior to initiation of grading to provide confirmation on presence or absence of active nests in the vicinity.
- If active nests are encountered, species-specific measures shall be prepared by a qualified biologist in consultation with the CDFW and implemented to prevent abandonment of the active nest. At a minimum, grading in the vicinity of the nest shall be deferred until the young birds have fledged. A nest-setback zone of at least 300 feet for all raptors and 100 feet for loggerhead shrike and other non-raptors shall be established within which all construction-related disturbances shall be prohibited. The perimeter of the nest-setback zone shall be fenced or adequately demarcated with staked flagging at 20-foot intervals, and construction personnel restricted from the area.
- If permanent avoidance of the nest is not feasible, impacts shall be minimized by prohibiting disturbance within the nest-setback zone until a qualified biologist verifies that the birds have either a) not begun egg-laying and incubation, or b) that the juveniles from the nest are foraging independently and capable of independent survival at an earlier date.
- A survey report by the qualified biologist verifying that the young have fledged shall be submitted to the City prior to initiation of grading in any nest-setback zone.

<b>Monitoring Phase:</b>	Pre-Construction
<b>Enforcement Agency:</b>	Department of Building and Safety
<b>Monitoring Agency:</b>	California Department of Fish and Wildlife
<b>Monitoring Frequency:</b>	Once, prior to grading or vegetation removal, if grading or vegetation removal is scheduled during the active nesting period (February 15 <sup>th</sup> through August 31 <sup>st</sup> ), and at any time, in the event that avoidance of a nest becomes infeasible during grading or vegetation removal.
<b>Action Indicating Compliance:</b>	Survey report by qualified biologist

**BIO-2** Prior to issuance of a demolition or grading permit, the Project Applicant shall have a qualified biologist conduct Phase 3 entry surveys within the interior of all buildings at the Project Site identified as having a high to moderate potential to provide bat roost habitat. These surveys shall involve accessing the attic and other areas (if warranted) to look for evidence of bats and utilizing heterodyne-style bat detectors to aid in the acoustic detection and identification of potentially roosting bats.

If bats or bat sign are not encountered during the Phase 3 surveys, the buildings shall be daylighted prior to demolition. Daylighting includes removal of substantial portions of the roof to create a well-lit, well-ventilated attic preventing bats from establishing in these buildings. Daylighting shall occur under the supervision of a qualified biologist at least 48 hours prior to building demolition. If bats are encountered during daylighting, all disturbance activities within the structure and within 200 feet shall be halted until: (a) the roost is vacated, or (b) a qualified biologist has coordinated with CDFW to develop alternative impact avoidance measures, up to and including bat removal.

If bats or bat sign are encountered during Phase 3 Surveys, the qualified biologists shall leave the building immediately to avoid further disturbance to roosting bats and conduct an emergence survey. Emergence surveys shall be conducted at dusk to determine where bats are exiting the building. Emergence surveys shall be conducted to determine the ingress/egress location, estimate the approximate number of bats using the roost, and identify the species occupying the roost using an ultrasonic bat detector. Demolition of occupied roosts shall be postponed until appropriate exclusion and mitigation measures have been determined in consultation with CDFW. Examples of exclusion measures include one-way barriers installed at the ingress/egress site that allow bats to exit the roost but not return.

<b>Monitoring Phase:</b>	Pre-Construction
<b>Enforcement Agency:</b>	Department of Building and Safety
<b>Monitoring Agency:</b>	California Department of Fish and Wildlife
<b>Monitoring Frequency:</b>	Once, prior to demolition or grading of each vacated housing structure  Once, during an emergence survey if bats are encountered
<b>Action Indicating Compliance:</b>	Survey report by qualified biologist; final report upon completion of demolition

**BIO-3** Palm trees at the Project Site shall have the dead frond skirts removed between October 1 and March 31 before being felled to avoid impacts to roosting Southwestern Yellow Bats. A qualified arborist shall supervise removal of palm frond skirts in a systematic manner beginning with the top fronds and working towards the base of the tree. If bats are encountered during this process, trimming should halt and remain halted until (a) the roost is confirmed to have been vacated by a qualified biologist, or (b) a qualified biologist has coordinated with CDFW to develop alternative measures up to and including bat removal from the trees.

<b>Monitoring Phase:</b>	Pre-Construction
<b>Enforcement Agency:</b>	Department of Building and Safety
<b>Monitoring Agency:</b>	California Department of Fish and Wildlife
<b>Monitoring Frequency:</b>	Daily, during removal of palm trees
<b>Actions Indicating Compliance:</b>	Compliance report submitted by contractor;  Survey report and final report by qualified biologist, if bats are encountered

**BIO-4** Prior to issuance of a grading permit, the Project Applicant shall enter into a Streambed Alteration Agreement or other documentation (satisfactory to CDFW) with CDFW to provide a 1:1 replacement of 0.86 acre of suitable streambed and associated riparian habitat either on-site as additional habitat creation, off-site either through habitat creation or purchase of credits in an approved mitigation bank in the Los Angeles Basin, or via a combination of these approaches.

<b>Monitoring Phase:</b>	Pre-Construction
<b>Enforcement Agency:</b>	Department of Building and Safety
<b>Monitoring Agency:</b>	California Department of Fish and Wildlife
<b>Monitoring Frequency:</b>	Once, prior to issuance of grading permit
<b>Action Indicating Compliance:</b>	Streambed Alteration Agreement or other documentation to the satisfaction of the CDFW; submittal of same to Department of Building and Safety



**Section IV.E.1. Cultural Resources – Archaeological Resources**

**CULT-1:** A qualified archaeologist shall be present to monitor all ground-disturbing activities associated with the Project.

<b>Monitoring Phase:</b>	Pre-Construction; Construction
<b>Enforcement Agency:</b>	Department of Building and Safety
<b>Monitoring Agency:</b>	Department of City Planning
<b>Monitoring Frequency:</b>	Daily, during ground-disturbing activities
<b>Action Indicating Compliance:</b>	Quarterly compliance report submitted by qualified archaeologist

**CULT-2:** Prior to initiation of ground-disturbing activities, the archaeological monitor shall conduct a brief awareness training session for the benefit of all construction workers and supervisory personnel. The training, which could be held in conjunction with the Project's initial on-site safety meeting, shall explain the importance of and legal basis for the protection of significant archaeological resources. Each worker shall also learn the proper procedures to follow in the event that cultural resources or human remains/burials are uncovered during ground-disturbing activities. These procedures include work curtailment or redirection and the immediate contact of the site supervisor and the archaeological monitor. It is recommended that this worker education session include visual images of artifacts that might be found in the Project vicinity.

<b>Monitoring Phase:</b>	Pre-Construction
<b>Enforcement Agency:</b>	Department of Building and Safety
<b>Monitoring Agency:</b>	Department of City Planning
<b>Monitoring Frequency:</b>	Once, prior to ground-disturbing activities
<b>Action Indicating Compliance:</b>	Compliance report submitted by qualified archaeologist

**CULT-3:** In the event that cultural resources are exposed during construction, work in the immediate vicinity of the find shall stop until a qualified archaeologist can evaluate the significance of the find. Construction activities may continue in other areas.

**Monitoring Phase:** Construction

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of City Planning

**Monitoring Frequency:** Daily, during ground-disturbing activities

**Action Indicating Compliance:** Quarterly compliance report submitted by contractor

#### **Section IV.E.2. Cultural Resources - Paleontological Resources**

**CULT-4:** Prior to ground disturbance, the vertebrate fossils observed at locality JLD102210-02 (see Appendix IV.E-2) shall be collected. A bulk sample of the matrix (approximately 2,000 pounds) containing the invertebrate specimens shall also be collected and screened. Following matrix sampling, this area shall be closely monitored during construction grading to ensure the recovery of any additional scientifically significant fossil specimens.

**Monitoring Phase:** Pre-Construction; Construction

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of City Planning

**Monitoring Frequency:** Once, prior to ground-disturbing activities;

Daily, during ground-disturbing activities

**Action Indicating Compliance:** Vertebrate fossil collected;

Compliance report for fossil collection submitted by qualified paleontologist;

Quarterly compliance report for daily monitoring

**CULT-5:** Prior to ground disturbance, a qualified paleontologist shall be retained to produce a Paleontological Monitoring and Mitigation Plan for the Project and to supervise monitoring of construction excavations. Paleontological resource monitoring shall include inspection of exposed rock units during active excavations within sensitive geologic sediments. The monitor shall have authority to temporarily divert grading away from exposed fossils to professionally and efficiently recover the fossil specimens and collect associated data.

**Monitoring Phase:** Pre-Construction

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of City Planning

**Monitoring Frequency:** Once, prior to ground-disturbing activities

**Action Indicating Compliance:** Produce a Paleontological Monitoring and Mitigation Plan;  
Quarterly compliance report submitted by qualified paleontologist per mitigation measure CULT-6, below

**CULT-6:** All Project-related ground disturbance that could potentially affect the San Pedro Sand and Palos Verdes Sand shall be monitored by a qualified paleontological monitor on a full-time basis. Part-time monitoring shall be conducted in all Project-related ground disturbances affecting younger Quaternary alluvium.

**Monitoring Phase:** Construction

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of City Planning

**Monitoring Frequency:** Daily, during ground-disturbing activities

**Action Indicating Compliance:** Quarterly compliance report submitted by qualified paleontologist

**CULT-7:** At each fossil locality, field data forms shall be used to record pertinent geologic data, stratigraphic sections shall be measured, and appropriate sediment samples shall be collected and submitted for analysis.

**Monitoring Phase:** Construction

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of City Planning

**Monitoring Frequency:** Prior to ground-disturbing activities;

Daily, during ground-disturbing activities if a new fossil locality is discovered

**Action Indicating Compliance:** Field data forms and sediment samples collected by qualified paleontologist

**CULT-8:** Recovered fossils shall be prepared to the point of curation, identified by qualified experts, listed in a database to facilitate analysis, and repositied in a designated paleontological curation facility.

**Monitoring Phase:** Construction

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of City Planning

**Monitoring Frequency:** As fossils are recovered

**Action Indicating Compliance:** Submittal of identified fossils and associated information by qualified paleontologist

**CULT-9:** The qualified paleontologist shall prepare a final monitoring and mitigation report to be filed with the City, the Project Applicant, and the repository.

**Monitoring Phase:** Construction

**Enforcement Agency:** Department of Building and Safety

<b>Monitoring Agency:</b>	Department of City Planning
<b>Monitoring Frequency:</b>	Once, at end of the construction phase
<b>Action Indicating Compliance:</b>	Submittal of final monitoring and mitigation report by qualified paleontologist

#### **Section IV.E.3. Cultural Resources - Historic Resources**

No mitigation measures required.

#### **Section IV.F. Geology & Soils**

**GEO-1** A 50-foot wide structural setback zone shall be designated on each side of the interpreted centerline of the surface projection of Fault A (100-foot total width), as shown in Figure IV.F-4. No habitable structures shall be located within this setback zone.

<b>Monitoring Phase:</b>	Pre-Construction
<b>Enforcement Agency:</b>	Department of Building and Safety
<b>Monitoring Agency:</b>	Department of Building and Safety
<b>Monitoring Frequency:</b>	Once, during Plan Check
<b>Action Indicating Compliance:</b>	Plan approval

#### **Section IV.G. Greenhouse Gas Emissions**

No mitigation measures required.

#### **Section IV.H. Hazards and Hazardous Materials**

**HAZ-1** Hydrocarbon-impacted soils encountered during grading and excavation work at the Project Site shall be characterized. Any soils containing hydrocarbons at levels of concern shall be either remediated on-site prior to reuse or removed and disposed of in accordance with all applicable laws and regulations, including those promulgated by the California Department of Toxic Substances Control (DTSC). All necessary approvals shall be obtained from the lead enforcement agency including, but not limited to, the Los Angeles County Fire Department Health and Hazardous Materials Division.

<b>Monitoring Phase:</b>	Construction
<b>Enforcement Agency:</b>	Los Angeles County Fire Department Health and Hazardous Materials Division
<b>Monitoring Agency:</b>	Department of Building and Safety
<b>Monitoring Frequency:</b>	Once, prior to grading and excavation work Once, after remediation is complete, if necessary
<b>Actions Indicating Compliance:</b>	Characterization of hydrocarbon-impacted soils by contractor; Approvals Los Angeles County Fire Department Health and Hazardous Materials Division

**HAZ-2** Prior to demolition activities, an investigation for asbestos containing materials (ACMs) shall be conducted and identified asbestos shall be abated in accordance with the South Coast Air Quality Management District (SCAQMD)'s Rule 1403, as well as all other applicable City, state, and federal regulations.

<b>Monitoring Phase:</b>	Construction
<b>Enforcement Agency:</b>	Department of Building and Safety
<b>Monitoring Agency:</b>	Department of Building and Safety
<b>Monitoring Frequency:</b>	Once, prior to issuance of demolition permit
<b>Actions Indicating Compliance:</b>	Issuance of demolition permit

**HAZ-3** Prior to demolition activities, an investigation for lead-based paint (LBP) shall be conducted and identified LBP shall be abated in accordance with applicable City, State, and federal regulations. Construction workers shall be properly trained in lead-related construction in order to avoid exposure of such workers to lead-containing material.

<b>Monitoring Phase:</b>	Construction
<b>Enforcement Agency:</b>	Department of Building and Safety

**Monitoring Agency:** Department of Building and Safety

**Monitoring Frequency:** Once, prior to issuance of demolition permit

**Actions Indicating Compliance:** Issuance of demolition permit

**Section IV.I. Hydrology and Water Quality**

No mitigation measures required

**Section IV.J. Land Use and Planning**

No mitigation measures required.

**Section IV.K. Noise**

**NO-1** Noise and groundborne vibration construction activities whose specific location on the Project Site may be flexible (e.g., operation of compressors and generators, cement mixing, general truck idling) shall be conducted as far as possible from the nearest noise- and vibration-sensitive land uses.

**Monitoring Phase:** Construction

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of Building and Safety

**Monitoring Frequency:** Periodic field inspections during construction

**Actions Indicating Compliance:** Field inspection sign-off;  
Quarterly compliance report submitted by contractor

**NO-2** When possible, construction activities shall be scheduled so as to avoid operating several pieces of equipment simultaneously, which causes high noise levels.

**Monitoring Phase:** Construction

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of Building and Safety

**Monitoring Frequency:** Periodic field inspections during construction



**Actions Indicating Compliance:** Field inspection sign-off;  
Quarterly compliance report submitted by contractor

**NO-3** Flexible sound control curtains shall be placed around all drilling apparatuses, drill rigs, and jackhammers when in use.

**Monitoring Phase:** Construction

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of Building and Safety

**Monitoring Frequency:** Periodic field inspections during construction

**Actions Indicating Compliance:** Field inspection sign-off;  
Quarterly compliance report submitted by contractor

**NO-4** The Project contractor shall use power construction equipment fitted with the best available technology in noise shielding and muffling devices.

**Monitoring Phase:** Construction

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of Building and Safety

**Monitoring Frequency:** At initiation of construction activities, and quarterly thereafter

**Action Indicating Compliance:** Quarterly compliance report submitted by contractor

**NO-5** Barriers such as plywood structures or flexible sound control curtains extending eight-feet high shall be erected around the Project Site boundary to minimize the amount of noise on the surrounding noise-sensitive receptors to the maximum extent feasible during construction.

**Monitoring Phase:** Construction

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of Building and Safety

**Monitoring Frequency:** Prior to construction activities, then periodic field inspections during construction

**Actions Indicating Compliance:** Field inspection sign-off;  
Quarterly compliance report submitted by contractor

**NO-6** All construction truck traffic shall be restricted to truck routes approved by the City of Los Angeles Department of Building and Safety, which shall avoid residential areas and other sensitive receptors to the extent feasible. Prior to the commencement of construction at the Project Site, a meeting shall be held with appropriate representatives of the Cities of Rancho Palos Verdes, Torrance, and Lomita. The purpose of the meeting will be to designate truck routes for off-site load hauling vehicles and other construction-related vehicles.

**Monitoring Phase:** Construction

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of Building and Safety

**Monitoring Frequency:** Periodic field inspections during construction

**Action Indicating Compliance:** Approval of Haul Route; quarterly compliance report submitted by contractor

**NO-7** Two weeks prior to the commencement of construction at the Project Site, notification shall be provided to the immediate surrounding cities and off-site residential, school, and memorial park properties that discloses the construction schedule, including the various types of activities and equipment that would be occurring throughout the duration of the construction period.

**Monitoring Phase:** Pre-Construction

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of Building and Safety

**Monitoring Frequency:** Once, 2 weeks prior to construction

**Actions Indicating Compliance:** Compliance report submitted by contractor

**NO-8** Equipment warm-up areas, water tanks, and equipment storage areas shall be located a minimum of 45 feet from abutting sensitive receptors.

<b>Monitoring Phase:</b>	Construction
<b>Enforcement Agency:</b>	Department of Building and Safety
<b>Monitoring Agency:</b>	Department of Building and Safety
<b>Monitoring Frequency:</b>	Once, at initiation of construction;  Periodic field inspections during construction
<b>Actions Indicating Compliance:</b>	Field inspection sign-off;  Quarterly compliance report submitted by contractor

#### **Section IV.L. Population and Housing**

No mitigation measures required.

#### **Section IV.M.1. Public Services - Fire Protection**

No mitigation measures required.

#### **Section IV.M.2. Public Services - Police Protection**

No mitigation measures required.

#### **Section IV.M.3. Public Services - Schools**

No mitigation measures required.

#### **Section IV.M.4. Public Services - Parks and Recreation**

No mitigation measures required.

#### **Section IV.M.5. Public Services - Libraries**

No mitigation measures required.

**Section IV.N. Transportation and Traffic**

**TRANS-1** Prior to the generation of 301 PM peak hour trips at the site, the Project Applicant shall modify the existing traffic signal at the intersection of Crenshaw Boulevard and Palos Verdes Drive North to provide a northbound right-turn signal phase on Crenshaw Boulevard that would overlap with the westbound left-turn signal phase on Palos Verdes Drive North. To accommodate this signal phasing, U-turn movements on the westbound approach of Palos Verdes Drive North shall become prohibited.

**Monitoring Phase:** Pre-Occupancy

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of Transportation

**Monitoring Frequency:** Once, prior to issuance of certificate of occupancy for a mix of uses that would generate 301 PM peak hour trips

**Action Indicating Compliance:** Field inspection sign-off for the listed modifications

**TRANS-2** Prior to the generation of 151 PM peak hour trips at the site, the Project Applicant shall do the following:

- a. Restripe the southbound approach on Western Avenue at Lomita Boulevard to accommodate installation of a right-turn only lane; and
- b. Modify the existing traffic signal at Western Avenue and Lomita Boulevard to provide a southbound right-turn signal phase on Western Avenue that would overlap with the eastbound left-turn signal phase on Lomita Boulevard.

**Monitoring Phase:** Occupancy

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of Transportation

**Monitoring Frequency:** Once, prior to issuance of a certificate of occupancy for a mix of uses that would generate 151 PM peak hour trips

**Action Indicating Compliance:** Field inspection sign-off for the listed modifications

**TRANS-3** Prior to the generation of 1 PM peak hour trip at the site, the Project Applicant shall do the following:

- a. Modify the southbound approach on Western Avenue at Pacific Coast Highway to install a second left-turn lane and a third through lane; and
- b. Modify the existing traffic signal at the intersection of Western Avenue and Pacific Coast Highway to accommodate the modification to the southbound approach.

**Monitoring Phase:** Pre-Occupancy

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of Transportation

**Monitoring Frequency:** Once, prior to issuance of the first certificate of occupancy for the Project

**Action Indicating Compliance:** Field inspection sign-off

**TRANS-4** Prior to the generation of 1 PM peak hour trip at the site, the Project Applicant shall do the following:

- a. Modify the westbound approach on Palos Verdes Drive North at Western Avenue to install a second left-turn lane;
- b. Modify the existing median on Palos Verdes Drive North and the existing traffic signal at the intersection of Palos Verdes Drive North and Western Avenue to accommodate the modification to the westbound approach;
- c. Modify the existing median and restripe the northbound approach on Western Avenue at Palos Verdes Drive North to install a right-turn only lane;
- d. Restripe the southbound approach on Western Avenue at Palos Verdes Drive North to install a right-turn lane.

**Monitoring Phase:** Pre-Occupancy

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of Transportation

**Monitoring Frequency:** Once, prior to issuance of the first certificate of occupancy for the Project

**Action Indicating Compliance:** Field inspection sign-off

**TRANS-5** Prior to the generation of 1 PM peak hour trip at the site, the Project Applicant shall install a traffic signal at the intersection of Western Avenue and Peninsula Verde Drive.

**Monitoring Phase:** Pre-Occupancy

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of Transportation

**Monitoring Frequency:** Once, prior to issuance of the first certificate of occupancy for the Project

**Action Indicating Compliance:** Field inspection sign-off

**TRANS-6** Prior to the generation of 151 PM peak hour trips at the site, the Project Applicant shall do the following:

- a. Modify the northbound approach on Western Avenue at Westmont Drive to install a right-turn only lane; and
- b. Restripe the eastbound approach on Westmont Drive at Western Avenue to provide one left-turn lane.

**Monitoring Phase:** Occupancy

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of Transportation

**Monitoring Frequency:** Once, prior to issuance of a certificate of occupancy for a mix of uses that would generate 151 PM peak hour trips

**Action Indicating Compliance:** Field inspection sign-off for the listed modifications

**TRANS-7** Prior to the generation of 301 PM peak hour trips at the site, the Project Applicant shall restripe the northbound approach on Western Avenue at Capitol Drive and modify the raised median to install a right-turn only lane.

**Monitoring Phase:** Occupancy

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of Transportation

**Monitoring Frequency:** Once, prior to issuance of a certificate of occupancy for a mix of uses that would generate 301 PM peak hour trips

**Action Indicating Compliance:** Field inspection sign-off for the listed modifications

**TRANS-8** Prior to the generation of 151 PM peak hour trips at the site, the Project Applicant shall widen the south side of Anaheim Street west of Vermont Avenue by approximately 12 feet to accommodate a 180-foot long turn pocket and install a right-turn only lane at the eastbound approach to the intersection.

**Monitoring Phase:** Occupancy

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of Transportation

**Monitoring Frequency:** Once, prior to issuance of a certificate of occupancy for a mix of uses that would generate 151 PM peak hour trips

**Action Indicating Compliance:** Field inspection sign-off for the listed modifications

**TRANS-9** Prior to the generation of 151 PM peak hour trips at the site, the Project Applicant shall do the following:

- a. Widen Gaffey Street north of Westmont Drive to accommodate installation of a right-turn only lane at the southbound approach to the intersection;
- b. Relocate the existing southbound near-side Metro bus stop on Gaffey Street to the far side of the intersection (i.e., south of the intersection) where a full bus pad is to be installed in the street;

- c. Modify the existing traffic signal to provide a southbound right-turn signal phase on Gaffey Street that would overlap with the eastbound left-turn signal phase on Westmont Drive at the Gaffey Street intersection; and
- d. Enhanced signage shall be provided as needed to guide the right-turn motorists from the eastbound Anaheim Street approach to Gaffey Street and Palos Verdes Drive North.

It is noted that the southbound approach on Gaffey Street can be modified to include continuation of the existing bicycle lane and the southbound right-turn only lane.

<b>Monitoring Phase:</b>	Occupancy
<b>Enforcement Agency:</b>	Department of Building and Safety
<b>Monitoring Agency:</b>	Department of Transportation
<b>Monitoring Frequency:</b>	Once, prior to issuance of a certificate of occupancy for a mix of uses that would generate 151 PM peak hour trips
<b>Action Indicating Compliance:</b>	Field inspection sign-off for the listed modifications

**TRANS-10** Prior to the generation of 301 PM peak hour trips at the site, the Project Applicant shall do the following:

- a. Restripe the southbound approach on Gaffey Street at Summerland Avenue to accommodate the installation of a right-turn only lane, and
- b. Modify the existing traffic signal to provide a southbound right-turn signal phase on Gaffey Street that would overlap with the eastbound left-turn signal phase on Summerland Avenue at the Gaffey Street intersection.

<b>Monitoring Phase:</b>	Occupancy
<b>Enforcement Agency:</b>	Department of Building and Safety
<b>Monitoring Agency:</b>	Department of Transportation
<b>Monitoring Frequency:</b>	Once, prior to issuance of a certificate of occupancy for a mix of uses that would generate 301 PM peak hour trips



**Action Indicating Compliance:** Field inspection sign-off for the listed modifications

**TRANS-11** Prior to the generation of 301 PM peak hour trips at the site, the Project Applicant shall do the following:

- a. Widen the north and south sides of Pacific Coast Highway east and west of Vermont Avenue to provide up to a 42-foot half roadway on the 50-foot half right-of-way;
- b. Install a second left-turn lane at the westbound approach; and
- c. Modify the existing traffic signal and roadway striping at the intersection as needed.

**Monitoring Phase:** Occupancy

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of Transportation

**Monitoring Frequency:** Once, prior to issuance of a certificate of occupancy for a mix of uses that would generate 301 PM peak hour trips

**Action Indicating Compliance:** Field inspection sign-off for the listed modifications

**TRANS-12** Prior to the generation of 1 PM peak hour trip at the site, the Project Applicant shall do the following:

- a. Modify the existing traffic signal at Figueroa Place/Anaheim Street to provide a southbound right-turn signal phase on Figueroa Place that would overlap with the eastbound left-turn and through phase sufficiently long enough to accommodate the southbound right-turn volumes; and
- b. Install a new traffic signal at Figueroa Place/I-110 Southbound Off-ramp (north of Anaheim Street).

**Monitoring Phase:** Pre-Occupancy

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of Transportation

**Monitoring Frequency:** Once, prior to issuance of the first certificate of occupancy for the Project

**Action Indicating Compliance:** Field inspection sign-off

**TRANS-13** Prior to the generation of 301 PM peak hour trips at the site, the Project Applicant shall do the following:

- a. Modify the southbound approach on Figueroa Street at the Harbor Freeway Northbound On-ramp (north of Pacific Coast Highway) to accommodate the installation of a right-turn-only lane;
- b. Adjust the median to accommodate the right-turn-only lane; and
- c. Modify the traffic control equipment as needed.

**Monitoring Phase:** Occupancy

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of Transportation

**Monitoring Frequency:** Once, prior to issuance of a certificate of occupancy for a mix of uses that would generate 301 PM peak hour trips

**Action Indicating Compliance:** Field inspection sign-off for the listed modifications

**TRANS-14** Prior to the generation of 301 PM peak hour trips at the site, the Project Applicant shall modify the westbound approach on Pacific Coast Highway at Figueroa Street to accommodate a fourth through lane.

**Monitoring Phase:** Occupancy

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of Transportation

**Monitoring Frequency:** Once, prior to issuance of a certificate of occupancy for a mix of uses that would generate 301 PM peak hour trips

**Action Indicating Compliance:** Field inspection sign-off for the listed modifications

**TRANS-15** Prior to the generation of 1 PM peak hour trip at the site, the Project Applicant shall install a traffic signal at the Figueroa Street/Harbor Freeway Northbound On-ramp intersection (north of Anaheim Street). In addition, the existing roadway striping at the northbound approach to the intersection would be adjusted based on direction from LADOT.

**Monitoring Phase:** Pre-Occupancy

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of Transportation

**Monitoring Frequency:** Once, prior to issuance of the first certificate of occupancy for the Project

**Action Indicating Compliance:** Field inspection sign-off

**TRANS-16** Prior to the generation of 301 PM peak hour trips at the site, the Project Applicant shall widen the westbound approach on Anaheim Street at Figueroa Street by approximately 10 feet to accommodate a 120-foot long turn pocket and install a right-turn-only lane.

**Monitoring Phase:** Occupancy

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of Transportation

**Monitoring Frequency:** Once, prior to issuance of a certificate of occupancy for a mix of uses that would generate 301 PM peak hour trips

**Action Indicating Compliance:** Field inspection sign-off for the listed modifications

**TRANS-17** Prior to the occupancy of the first residential unit within the Project, the Project Applicant shall, in accordance with applicable County protocols for calculating fair-share

traffic improvement fees and based upon the assumption that all of the Related Projects affecting this intersection will be completed, make a fair-share payment toward the installation of the County's traffic signal synchronization system for the Normandie Avenue/Sepulveda Boulevard intersection.

<b>Monitoring Phase:</b>	Pre-Occupancy
<b>Enforcement Agency:</b>	Department of Building and Safety
<b>Monitoring Agency:</b>	Los Angeles County Department of Transportation
<b>Monitoring Frequency:</b>	Once, prior to issuance of the first certificate of occupancy for the Project
<b>Action Indicating Compliance:</b>	Field inspection sign-off

**TRANS-18** Prior to the occupancy of the first residential unit within the Project, the Project Applicant shall, in accordance with applicable County protocols for calculating fair-share traffic improvement fees and based upon the assumption that all of the Related Projects affecting this intersection will be completed, make a fair-share payment toward the following:

- a. Modify the northbound approach on Normandie Avenue to accommodate the installation of a second left-turn lane at the Lomita Boulevard intersection; and
- b. Remove the raised median island on Normandie Avenue, south of Lomita Boulevard, to accommodate the installation of the second northbound left-turn lane.

It is noted that the northbound approach on Normandie Avenue can be modified to include continuation of the existing bicycle lane and the second northbound left-turn lane.

<b>Monitoring Phase:</b>	Pre-Occupancy
<b>Enforcement Agency:</b>	Department of Building and Safety
<b>Monitoring Agency:</b>	Department of Transportation
<b>Monitoring Frequency:</b>	Once, prior to issuance of the first certificate of occupancy for the Project

**Action Indicating Compliance:** Field inspection sign-off

**TRANS-19** Prior to the occupancy of the first residential unit within the Project, the Project Applicant shall, in accordance with applicable County protocols for calculating fair-share traffic improvement fees and based upon the assumption that all of the Related Projects affecting this intersection will be completed, make a fair-share payment toward the following improvements:

- a. Modify the eastbound approach on Lomita Boulevard, west of Vermont Avenue, to accommodate the installation of a second left-turn lane;
- b. Remove the existing raised median island on Lomita Boulevard, west of Vermont Avenue, and modify the striping on the east leg of the intersection as needed; and
- c. Modify the traffic signal to accommodate the installation of the second southbound left-turn lane.

**Monitoring Phase:** Pre-Occupancy

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of Transportation

**Monitoring Frequency:** Once, prior to issuance of the first certificate of occupancy for the Project

**Action Indicating Compliance:** Field inspection sign-off

**TRANS-20** Prior to the issuance of Building Permits for each residential building within the Project, the Project Applicant shall perform, to the satisfaction of LADOT, a trip generation analysis for the units to be constructed. The results of these studies shall indicate which of the intersection improvements shown above in Mitigation Measures TRANS-1 through TRANS-16 must be operational prior to the occupancy of the subject residential units.

**Monitoring Phase:** Pre-Construction

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of Transportation

**Monitoring Frequency:** As specified for TRANS-1 to TRANS-24~~19~~, above

**Action Indicating Compliance:** Trip Generation analysis approval by LADOT

**TRANS-21** The Project Applicant shall coordinate with local and regional transit operators, including Metro and LADOT, to develop and implement strategies to increase transit utilization by Project residents. These transportation demand management (TDM) strategies could include, but would not be limited to, providing bus schedules and transit route information to residents, providing bicycle racks and information regarding optimal bike routes to local destinations to residents, and a carpooling information exchange.

**Monitoring Phase:** Pre-Occupancy, Occupancy

**Enforcement Agency:** Department of Transportation

**Monitoring Agency:** Department of Transportation

**Monitoring Frequency:** Once, prior to issuance of a certificate of occupancy for each residential structure;

Annually, during occupancy

**Action Indicating Compliance:** Annual compliance report submitted by building management

**TRANS-22** In conjunction with the street widening of Western Avenue adjacent to the Project Site, the Applicant shall provide a bus turnout lane and bus stop facilities (shelter, bench and schedule information) at bus stops adjacent to the Site.

**Monitoring Phase:** Pre-Occupancy

**Enforcement Agency:** Department of Transportation

**Monitoring Agency:** Department of Transportation

**Monitoring Frequency:** Once, prior to issuance of the first certificate of occupancy for the Project

**Action Indicating Compliance:** Field inspection sign-off

**TRANS-23** The Project Applicant shall coordinate with LADOT to potentially extend the existing San Pedro DASH route northerly on Western Avenue to serve the Project Site. If deemed necessary, the Project Applicant shall provide appropriate turnaround facilities to allow the DASH vehicles to utilize the Project Site as an end point on the route.

**Monitoring Phase:** Pre-Occupancy

**Enforcement Agency:** Department of Transportation

**Monitoring Agency:** Department of Transportation

**Monitoring Frequency:** Once, prior to issuance of the first certificate of occupancy for the Project

**Actions Indicating Compliance:** Determination by LADOT regarding the DASH Route;  
Field inspection sign-off

#### **Section IV.O.1. Utilities and Service Systems - Water**

**UTIL-1** In the event of full or partial public street closures, the Project Applicant shall employ flagmen during the construction of new water lines, to facilitate the flow of traffic.

**Monitoring Phase:** Construction

**Enforcement Agency:** Department of Transportation

**Monitoring Agency:** Department of Transportation

**Monitoring Frequency:** Periodic field inspections during closures

**Actions Indicating Compliance:** Field inspection sign-off;  
Compliance report submitted by contractor

#### **Section IV.O.2. Utilities and Service Systems - Wastewater**

No mitigation measures required.

#### **Section IV.O.3. Utilities and Service Systems - Solid Waste**

No mitigation measures required.

**Section IV.O.4. Utilities and Service Systems - Energy**

No mitigation measures required.



**APPENDIX NO. 8**  
**Development Regulation Summary Table**

<b>Development Regulation</b>	<b>Subarea 1</b>	<b>Subarea 2</b>	<b>Subarea 3</b>	<b>Subarea 4</b>	<b>Subarea 5</b>	<b>Subarea 6</b>	<b>Subarea 7</b>
<b>Use</b>	Single-family residential, recreation, and accessory uses	Single-family residential, recreation, and accessory uses	Single-family residential, recreation, and accessory uses	Single and multi-family residential, education, recreation, and accessory uses	Single and multi-family residential, education, recreation, and accessory uses	Single and multi-family residential, education, recreation, and accessory uses	Recreation, open space, and limited community-serving supportive uses
<b>Height (max)</b>	30' or 2 stories	30' or 3 stories	40' or 3 stories	35' or 3 stories	48' or 4 stories	55' or 4 stories	40' or 3 stories
<b>Density</b>	8 DU/AC (gross)  69 total units	11 DU/AC (gross)  60 total units	11 DU/AC (gross)  79 total units	21 DU/AC (gross)  140 total units	18 DU/AC (gross)  140 total units	23 DU/AC (gross)  212 total units	N/A
<b>Product Type*</b>	1	1 or 2	1, 2, or 3	1, 2, 3, or 4	1, 2, 3, 4, or 5	1, 2, 3, 4, 5, or 6	N/A
<b>Lot Width (min)</b>	20'	20'	20'	50'	50'	50'	None
<b>Setbacks (min)</b>	Front: 8'  Side: 4'  Rear: 8'	Front: 2'  Side: 4'  Rear: 5'	Front: 8'  Side: 4'  Rear: 2'	Front: 5'  Side: 4'  Rear: 0'	Front: 5'  Side: 5'  Rear: 0'	Front: 5'  Side: 5'  Rear: 0'	Front: 5'  Side: 5'  Rear: 10'
<b>Floor Area Ratio</b>	None	None	None	None	None	None	3:1

\*Whenever a product type allowed and intended primarily for development in one Subarea is developed in another Subarea as provided for in the Specific Plan, the Residential Regulations prescribed in Section 5.C.4 of the Specific Plan for the corresponding Subarea shall apply, except that the maximum dwelling units for each Subarea outlined in Table No. 1 of the Specific Plan shall not be exceeded.