LA-1 PM 20,6/21.9

Program Code: 20.XX.400.100

EA: 31500K, Project ID: 0715000162, PPNO 4885

January 2015

Project Study Report-Project Development Support (PSR-PDS)

To

Request Programming for Capital Support

On Route SR-1

Between Herondo Street / Anita Street (PM 20.6)

And Artesia Boulevard (PM 21.9)

APPROVAL RECOMMENDED:

ZOE YUE, CALTRANS PROJECT MANAGER

APPROVED:

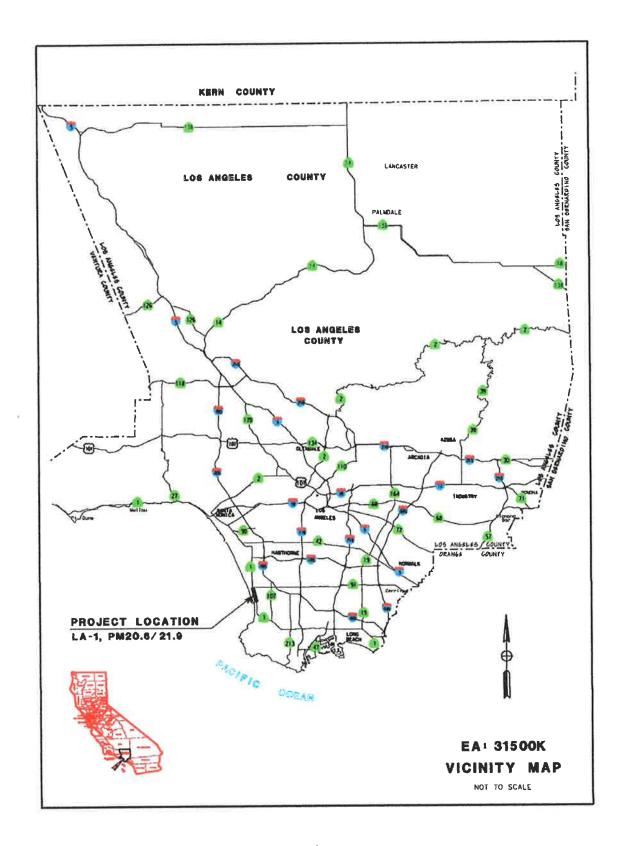
FRANK BIODELI P.E. PROJECT SPONSOR

DEPUTY PUBLIC WORKS DIRECTOR, CITY OF HERMOSA BEACH Accepts Risks Identified in this PSR-PDS and Attached Risk Register

APPROVED:

CARRIE BOWEN, DISTRICT DIRECTOR

DATE



This project study report-project development support has been prepared under the direction of the following registered civil engineer. The registered civil engineer attests to the technical information contained herein and the engineering data upon which recommendations, conclusions, and decisions are based.

01/23/2015

DATE

PROFESSION

James Vu C58683 Exp. 12/31/16

3

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1. INTRODUCTION

This project proposes to improve mobility and beautify the roadway at the following locations within the City of Hermosa Beach (City):

- On State Route 1 (SR-1), also known as Pacific Coast Highway (PCH), between Anita St./Herondo St. (PM 20.6) and Artesia Blvd./Gould Ave. (PM 21.9).
- On Aviation Blvd. between PCH and Prospect Ave.

Three build alternatives are proposed in this report. Alternative 2 proposes to improve pedestrian mobility and provide aesthetically pleasing roadway by reconstructing the sidewalks, undergrounding utilities, and constructing a landscaped median. Alternatives 3 and 4 propose to improve mobility and safety for all users including pedestrians, bicyclists, and transit users by implementing the concept of road diet and constructing roundabouts at some of the intersections.

Temporary Construction Easement (TCE) would be required for adjusting driveways for all three build alternatives. Right of way acquisition would be required for Alternatives 3 and 4 to construct roundabouts at PCH/Aviation Blvd., PCH/Pier Ave., PCH/Artesia Blvd., and Aviation Blvd./Prospect Ave.

Project Limits	07-LA-1 PM 20.6/21.9					
Number of Alternative	4					
		Alternative 1 (\$ Million)	Alternative 2 (\$ Million)	Alternative 3 (\$ Million)	Alternative 4 (\$ Million)	
Capital Outlay Support for PA&ED		0	2-3	2-3	2-3	
Capital Outlay Construction Cost	State R/W	0	14-15	17-24	18-26	
Range	City R/W	0	3-4	4-6	4-7	
Capital Outlay Right- of-Way Cost Range	State R/W	0	7-10 *	60-100 *	60-100 *	
(including utilities undergrounding)	City R/W	0	6-8 **	11-15 **	11-15 **	
Funding Source		TBD				
Type of Facility		PCH: 6-lane Conventional Highway				
	Aviation Blvd.: 4-lane Road					
Number of Structures		N/A				
Anticipated Environn	EIR/EIS					
Determination or Document						
Project Development		Category 4A or 4B, depending on alternative selection				
Category	in the next project phase.					

Utility undergrounding cost included: *\$8.6 mil.; **\$6.5 mil.

2. BACKGROUND

SR-1 is a north-south state highway that traverses through Los Angeles and Ventura Counties Coastal region and is used for inter-regional, intra-regional, recreational and commuter travel through highly urbanized areas in Los Angeles County, and rural areas of Ventura County. It varies from one lane to four lanes in each direction. It serves many unincorporated areas, coastal cities and communities in Los Angeles and Ventura Counties by providing access to beaches, parks and other attractions along the route. The route runs beside the coastline or close to it and turns inland to avoid federally controlled or protected areas such as Vandenberg Air Force Base, Diablo Canyon Power Plant and Point Reyes National Seashore.

Within the project limits, SR-1 is designated as Pacific Coast Highway. In each direction, it generally consists of a 10 to 12 ft wide two-way left-turn lane, two 10 ft mixed-flow lanes, an 11 ft flexible lane (which is used for parking during non-peak hour), and sidewalks varying from 3 to 8 ft wide.

Within the project limits, Aviation Blvd. is a four-lane road with time limit parking spaces, and 8 ft wide sidewalks.

See Attachment A, Vicinity Map for project location.

3. PURPOSE AND NEED

Purpose:

The primary objectives of this project are to incorporate complete street features, improve pedestrian mobility and beautify the roadway, while enhancing traffic safety, and fulfilling American with Disabilities Act (ADA) requirements.

Need:

Within the project limits, the sidewalks are generally narrow and obstructed with utility features, which discourages pedestrian use and minimize accessibility. There are no bike lanes within the project limits, which results in bicyclists sharing the traveled lanes or the sidewalk. The traveled way has non-standard lane widths, and the intersection geometrics are inadequate for u-turn movement, which hinders the traffic flow.

4. TRAFFIC ENGINEERING PERFORMANCE ASSESSMENT

An Intersection Control Evaluation screening meeting has been held, pursuant to Traffic Operations Policy Directive #13-02. It was agreed that the proposed roundabouts at PCH/Aviation Blvd., PCH/Pier Ave., PCH/Artesia Blvd., and Aviation Blvd./Prospect Ave. would provide substantial traffic flow benefits to the area.

Office of Traffic Engineering recommended that a detailed Traffic Impact Analysis be performed during Project Approval and Environmental Document (PA/ED) phase to accurately assess potential impacts of the PCH flexible lanes removal.

5. DEFICIENCIES

Following are identified transportation deficiencies:

- Lane width: The existing lane width is 10 ft. Alternatives 3 and 4 propose eliminating the two-way left-turn lane on PCH and providing standard 11 ft traveled lanes. This would improve traffic safety along this corridor.
- Bike lanes: Currently there is no bike lane within the project limits. Bicyclists have
 to share a lane with motorists. Alternative 3 proposes to add a bike lane where
 geometrically feasible. This is consistent with Caltrans' Complete Street policy and
 City of Hermosa Beach's improvement plan for Aviation Blvd.
- Transfer facilities: Existing bus stops are small and lack visibility. This project
 would construct standard bus-stop concrete pads and new bus canopies. This would
 improve connectivity to public transit for bicyclists and pedestrians, which in turn
 supports increased bicycling and walking.
- U-turn locations: Intersections within the project limits are generally inadequate for u-turn movements. Alternatives 3 and 4 propose adding roundabouts at PCH/Aviation Blvd., PCH/Pier Ave., PCH/Artesia Blvd., and Aviation Blvd./Prospect Ave. This would improve traffic safety and traffic flow in the area.
- Sidewalks: Within the project limits, sidewalks generally do not comply with the ADA standards. In some areas, the sidewalks are narrow and in poor condition. This project would relocate/remove protruding objects, and reconstruct the sidewalk to meet ADA requirements.

6. CORRIDOR AND SYSTEM COORDINATION

Following are the known recently completed/planned projects within the study limits:

• EA 1W140: Cold Plane, AC Overlay between Artesia Blvd. (PM 21.9) and Rosecrans Ave. (PM 23.9) in the City of Manhattan Beach. This project was completed in August 2014.

• EA 4T540: This project proposes to install left turn phasing and upgrade traffic signal system at the intersection of State Route 1, Pacific Coast Highway (PCH) and 2nd St. (PM 20.7). In Addition, it is proposed to modify an existing pedestrian crosswalk and install ADA curb ramps and In-Roadway Warning Lights (IRWL) at the intersection of PCH and 3rd St. This project is scheduled to be constructed in Spring 2016.

7. ALTERNATIVES

Four alternatives are presented in this report (See Attachment B).

7.1 Alternative #1 - No Build

The "No Build" Alternative will maintain the current configuration of the existing facility. It is presented as a basis of comparison with the other alternatives.

7.2 Alternative #2

Within State Right of Way

On PCH, this alternative would beautify the roadway and upgrade the existing sidewalks to the current ADA standards. Protruding obstacles that limit the clear width of the sidewalks would be removed. Exposed utility lines would be buried underground, and the existing two-way left-turn lane would be reconstructed to provide space for raised landscaped median. This alternative would maintain the existing nonstandard lane widths of 10 ft and the existing 0 ft shoulders.

Temporary Construction Easements would be required for adjusting driveways along the sidewalk to meet the ADA requirements.

Within City Right of Way

On Aviation Blvd., this alternative would remove protruding obstacles that limit the clear width of the sidewalks. Exposed utility lines would be buried underground, and the existing two-way left-turn lane would be reconstructed to provide as a raised landscaped median. One through-lane in the east bound direction would be eliminated, leaving only one through-lane in that direction. A 5 ft bike lane would be added in each direction. Parking would be provided in the east bound direction.

Temporary Construction Easements would be required for adjusting driveways along the sidewalk to meet the ADA requirements.

7.3 Alternative #3

Within State Right of Way

This alternative proposes to develop two distinct segments on PCH within the project limit. The first segment is between Aviation Blvd. and Artesia Blvd. and the second segment is between Aviation Blvd. and Anita St/Herondo St. The common design features between the two segments are: upgrading the sidewalks to meet the current ADA standards; eliminating the outside lane in each direction to provide space for two lanes with standard width of 11 ft; and providing permanent parking 9 ft wide in each direction. The first segment would have a 5 ft bike lane in each direction and roundabouts proposed at PCH/Aviation Blvd., PCH/Pier Ave., and PCH/Artesia Blvd. The second segment would have raised landscaped median and left-turn lanes at various intersections.

Temporary Construction Easements would be required for adjusting driveways along the sidewalk to meet the ADA requirements. Right of way acquisition would be required for construction of roundabouts.

Within City Right of Way

On Aviation Blvd. this alternative would remove protruding obstacles that limit the clear width of the sidewalks. Exposed utility lines would be buried underground. This alternative would add bike lanes on Aviation Blvd. within the project limits. It would eliminate one through-lane in the east bound direction. A roundabout would be added at the intersection of Aviation Blvd. and Prospect Ave.

Temporary Construction Easements would be required for adjusting driveways along the sidewalk to meet the ADA requirements. Right of way acquisition would be required for construction of roundabouts.

7.4 Alternative #4

Within State Right of Way

This alternative is similar to Alternative 3 on PCH, except that a landscaped median would be constructed instead of the bike lanes.

Within City Right of Way

This alternative is similar to Alternative 3 on Aviation Blvd, except that a landscaped median would be constructed instead of the bike lanes.

7.5 Other Alternatives Considered

Road Diet with Bike Lanes:

This alternative proposes a road diet with bike lanes without roundabouts on PCH. It is similar to segment 2 in Alternative 3 (See attachment C - Typical Cross Sections, Alternative 3 - from Herondo St. to Aviation Blvd.), except that bike lanes would be provided instead of parking. This alternative should be explored further in PA&ED phase. Traffic impacts due to the elimination of the flexible lanes need to be studied in details. Design exception for non-standard shoulders would be needed.

Minimum Standard Alternative:

This alternative proposes upgrading the segment on PCH to the current design standards. The existing right of way lines would be shifted by a total of 20 ft to the outside to provide space for standard lanes and shoulders. This alternative was discarded from further study due to its excessive cost for right of way acquisition.

7.6 Design Standards Risk Assessment

Alternative	Design Standard from Highway Design Manual Tables 82.1A & 82.1B	Probability of Design Exception Approval (None, Low, Medium, High,)	Justification for Probability Rating
2	Mandatory Lane Width (HDM Section 301.1)	Low	(Existing/Proposed lane width on SR-1 is 10') This section of Route 1 is Terminal Access (STAA). Further evaluation is needed.
2	Mandatory Shoulder Width, Right (HDM Section 302.1)	Low	(Posted speed limit = 30mph Existing/Proposed right shoulder width on SR-1 is 0') This section of Route 1 is a conventional multilane highway; not an access control highway.

8. RIGHT-OF-WAY

Conceptual right-of-way cost estimates for each build alternative have been prepared. (See Attachment E)

9. STAKEHOLDER INVOLVEMENT

Involved stakeholders in the development of the purpose and need of this project include Caltrans and the City of Hermosa Beach.

A Cooperative Agreement between Caltrans and the City of Hermosa Beach will be executed prior to commencement of project approval and environmental document (PA&ED) work.

A Maintenance Agreement for the segment on PCH will be required.

10. ENVIRONMENTAL DETERMINATION/DOCUMENTATION

A Preliminary Environmental Analysis Report (PEAR) has been prepared to identify studies and capital outlay resources needed to complete the PA&ED phase. An Environmental Impact Report/Environmental Impact Statement (EIR/EIS) has been identified as the appropriate level environmental document for this project.

Alternatives 3 and 4 will require new right of way from private properties which may result in additional time needed to prepare the environmental document if there is project controversy regarding right of way. (See Attachment F)

11. FUNDING

Capital Outlay Project Estimate

		Range of Estimate (\$ Million)		STIP Funds		Other Funds	
Α	Alternatives	Construction	Right-of-Way	Construction	Right- of-Way	Construction	Right- of-Way
1	State R/W	0	0	N/A	N/A	N/A	N/A
1	City R/W	0	0	14711	1071	11111	
2	State R/W	14-15	7-10	N/A	N/A	N/A	N/A
2	City R/W	3-4	6-8				
3	State R/W	17-24	60-100	N/A	N/A	N/A	N/A
3	City R/W	4-6	11-15				
4	State R/W	18-26	60-100	N/A	N/A	N/A	N/A
4	City R/W	4-7	11-15				

The level of detail available to develop these capital outlay project estimates is only accurate to within the above ranges and is useful for long-range planning purposes only. The capital outlay project estimates should not be used to program or commit State-programmed capital outlay funds.

Capital Outlay Support Estimate

Capital outlay support cost for programming PA&ED for this project is estimated to be from \$2 million to \$3 million.

12. SCHEDULE

Project Milestones	Scheduled Delivery Date (Month/Day/Year)	
PROGRAM PROJECT	M015	02/02/2015
BEGIN ENVIRONMENTAL	M020	07/01/2015
CIRCULATE DPR & DED EXTERNALLY	M120	03/01/2017
PA&ED	M200	08/01/2017
PROJECT PS&E	M380	11/01/2019
RIGHT OF WAY CERTIFICATION	M410	01/01/2020
READY TO LIST	M460	06/01/2020
AWARD	M495	09/01/2020
APPROVE CONTRACT	M500	11/01/2020
CONTRACT ACCEPTANCE	M600	10/01/2021
END PROJECT	M800	12/01/2022

The anticipated funding fiscal year for construction is 2019/2020.

13. RISKS

Risks are identified at the PSR-PDS level in the Risk Register (See Attachment H).

14. FHWA COORDINATION

This project is determined to be a "Delegated/Assigned Project" and is administered per the Project Responsibilities List in the Joint Stewardship and Oversight Agreement 2007 (Amended September 2010).

15. CONSTRUCTION PHASING

It was suggested to divide the project into multiple construction phases. Phase I could include the improvements on Aviation Blvd. between PCH and Prospect Ave. Phase II, or additional phases, could include the improvements on PCH between Herondo St. and Artesia Blvd.

16. DISTRICT CONTACTS

Office of Project Management: Zoe Yue, Office Chief

Phone (213)453-7566

Office of Project and Special Studies
James Vu, Project Engineer
Amir Elsharief, Sr. Transportation Engineer

Phone (213)897-0116 Phone (213)897-9565 Phone (213)897-7945

Rafael Molina, Sr. Transportation Engineer Elaheh Yadegar, Office Chief

Phone (213)897-9635

Office of Right of Way Appraisals Dan Murdoch, Office Chief

Phone (213)897-1816

17. PROJECT REVIEWS

Caltrans

Office of Design 'A':

Richard Chiang, Acting Office Chief

Office of Environmental Planning:

Karl Price, Sr. Environmental Planner

Office of Traffic Engineering:

Yunus Ghausi, Sr. Transportation Engineer Moe Bhuyian, Sr. Transportation Engineer

Office of Maintenance Engineering

Hamid Saadatnejadi, Office Chief

HQ Design

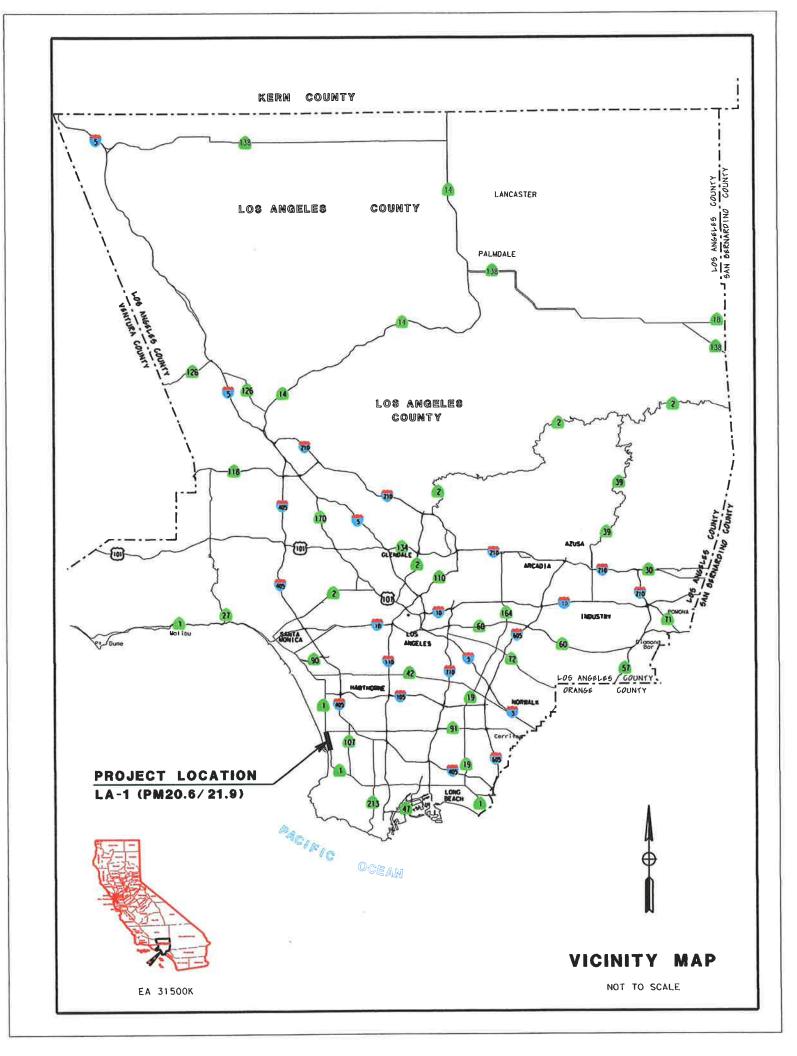
Brian Frazer, Design Reviewer Peter Vacura, Design Coordinator

City of Hermosa Beach

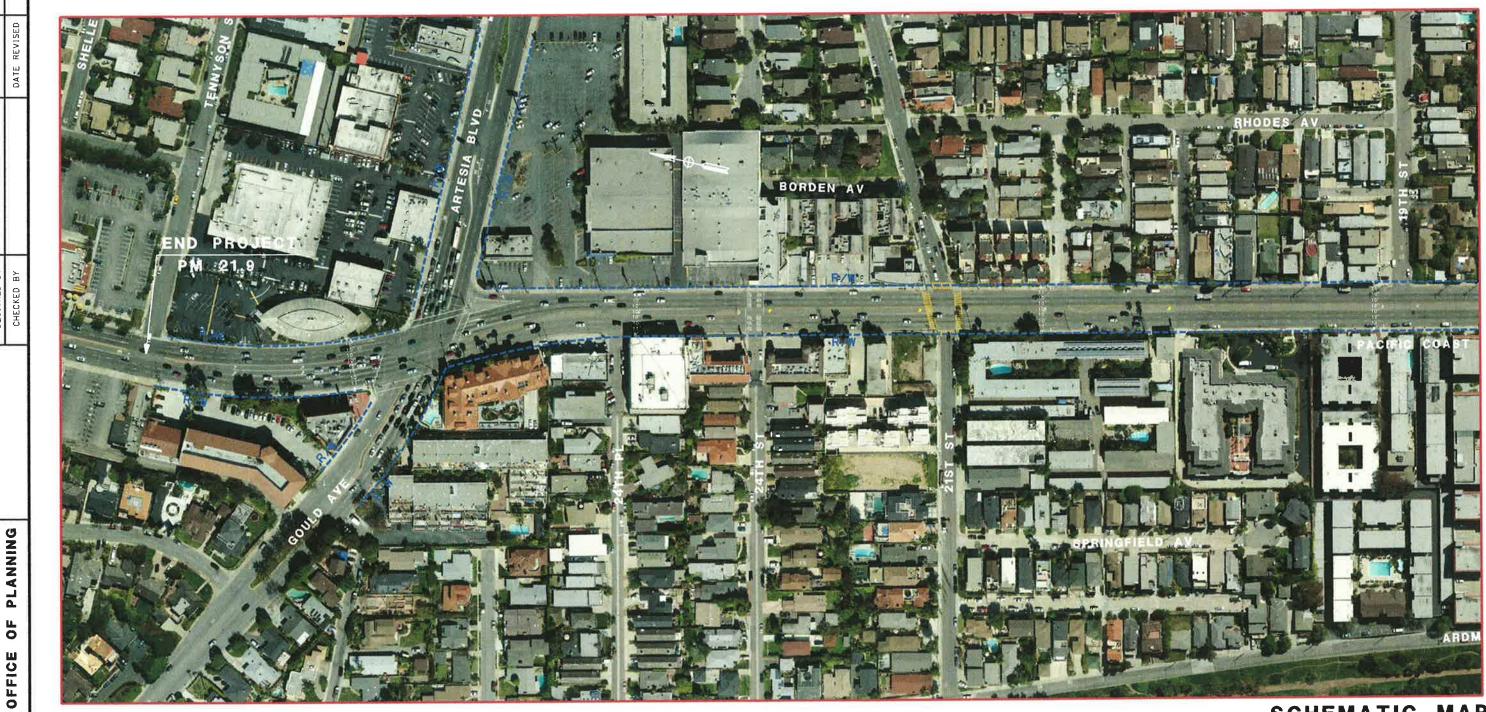
Frank Bigdeli, Deputy Public Works Director

18. ATTACHMENTS

- A. Vicinity Map
- B. Schematic Maps
 - 1. Alternative 1: No Build/Existing
 - 2. Alternative 2
 - 3. Alternative 3
 - 4. Alternative 4
- C. Typical Cross Sections
- D. Capital Outlay Project Estimate
- E. Right-of-Way Conceptual Cost Estimate Component
- F. Preliminary Environmental Assessment Report
- G. Storm Water Data Report
- H. Risk Register



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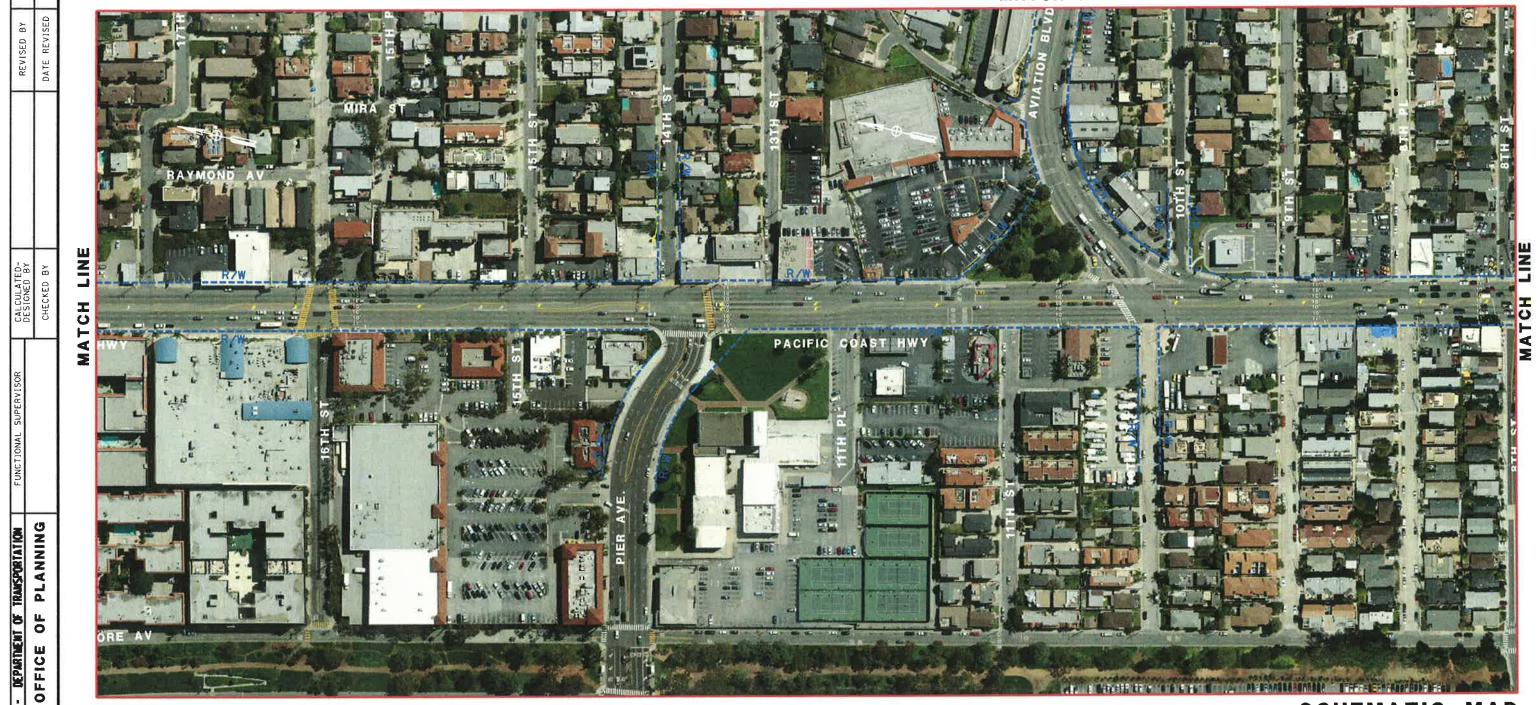
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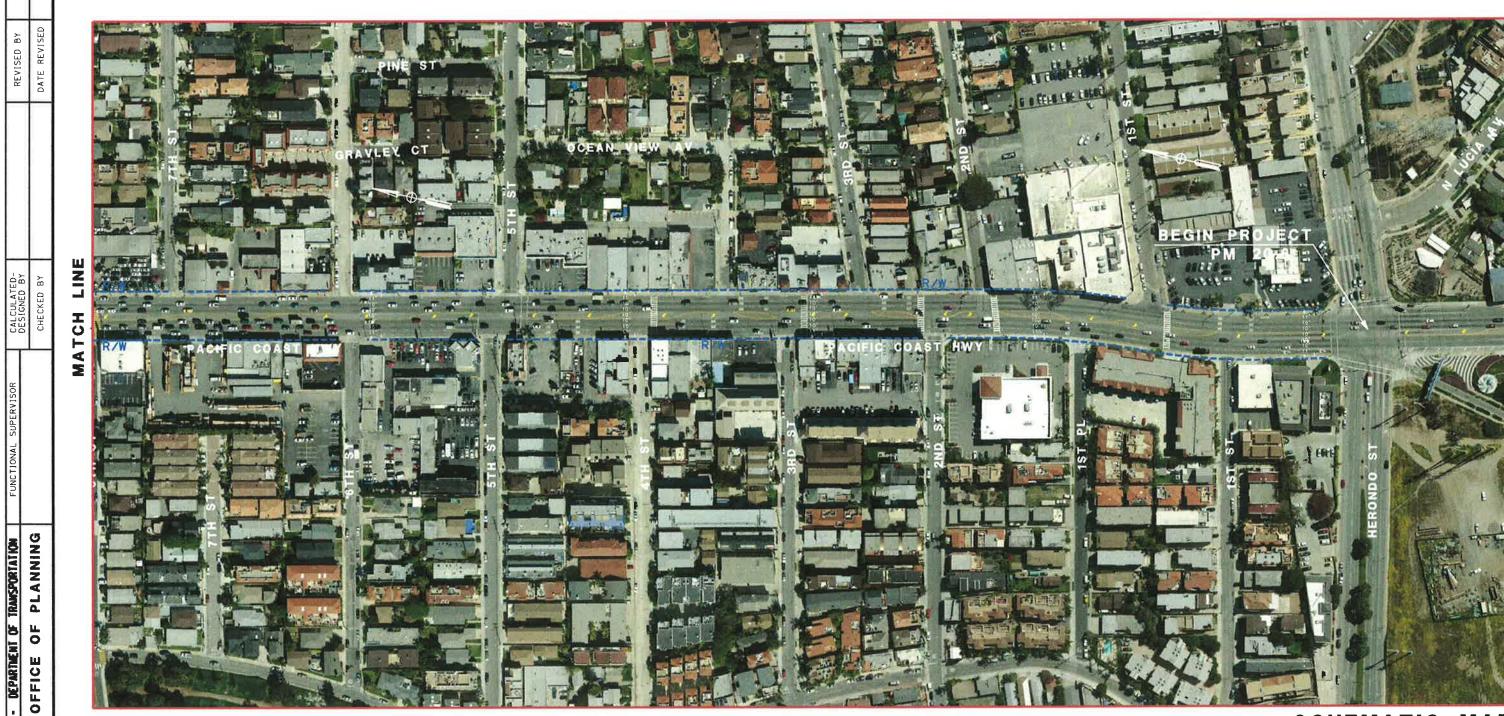
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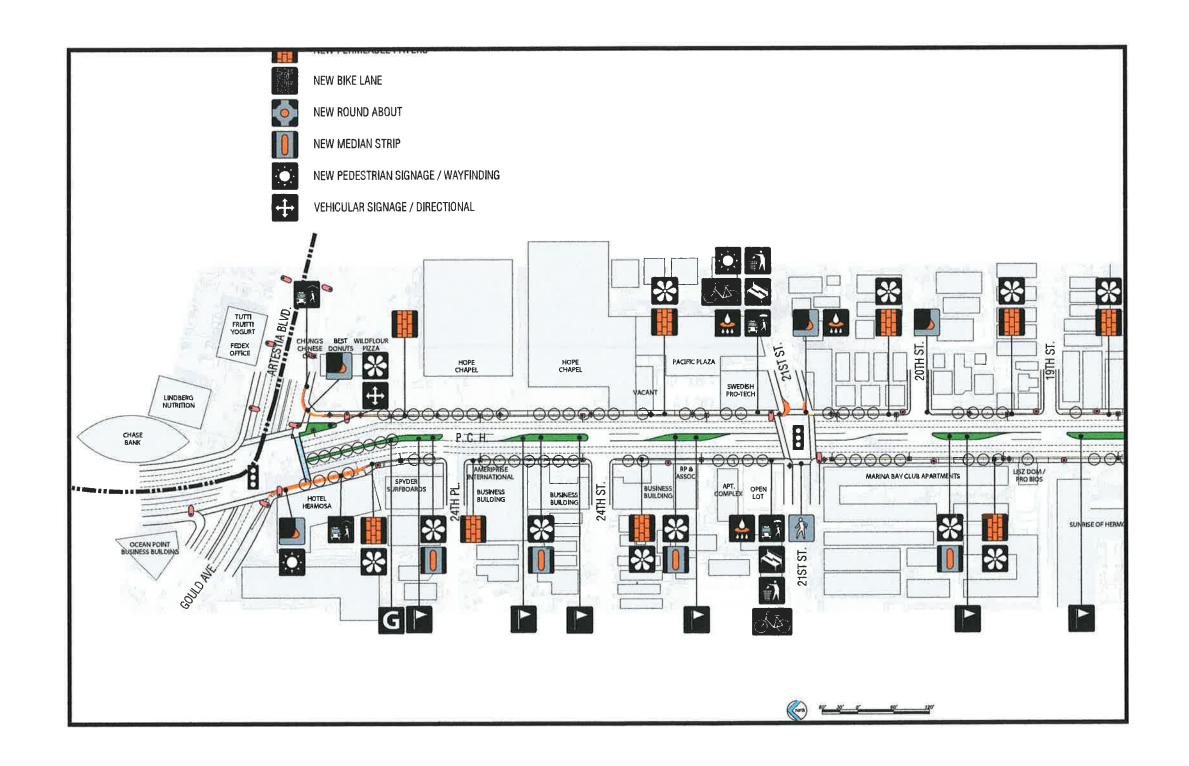
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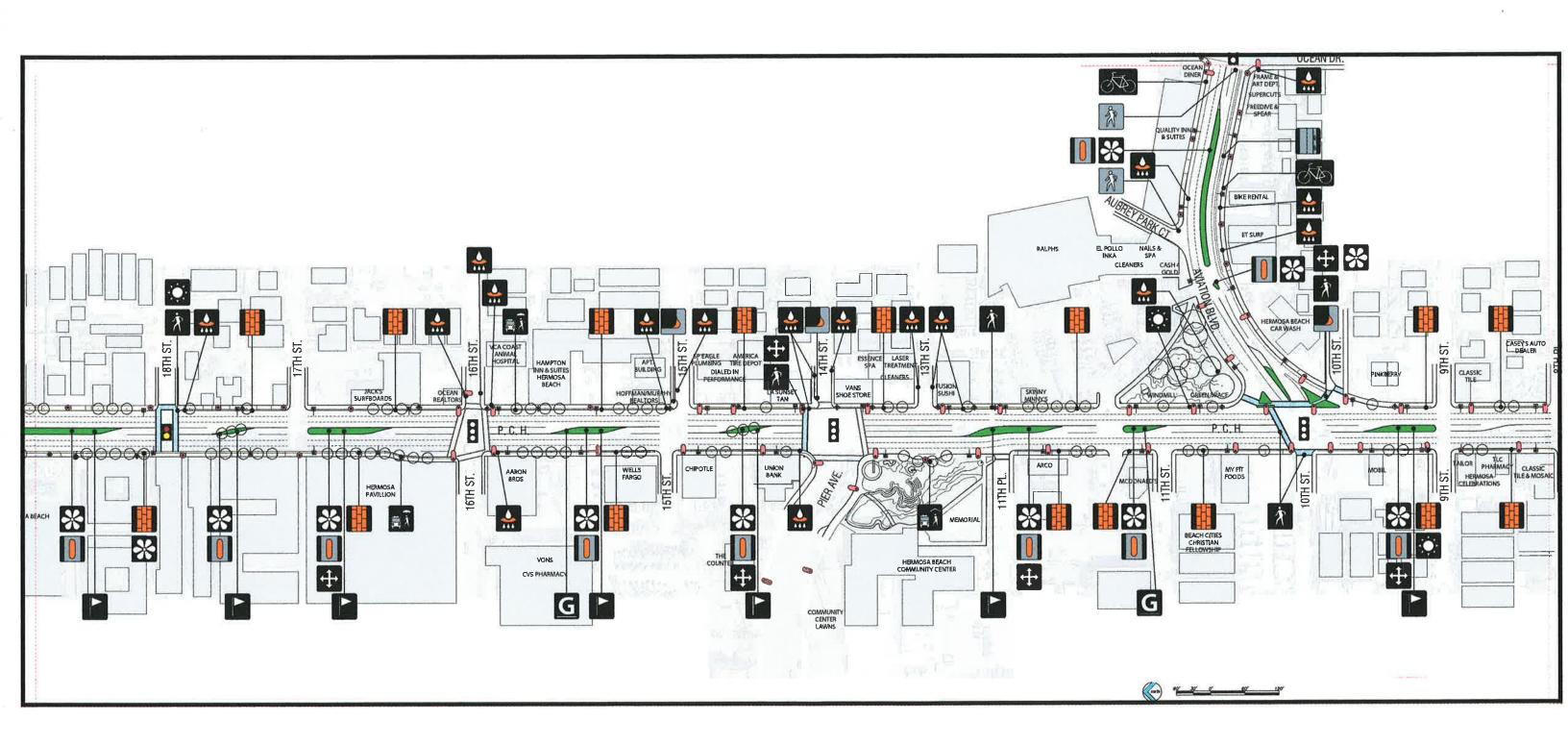
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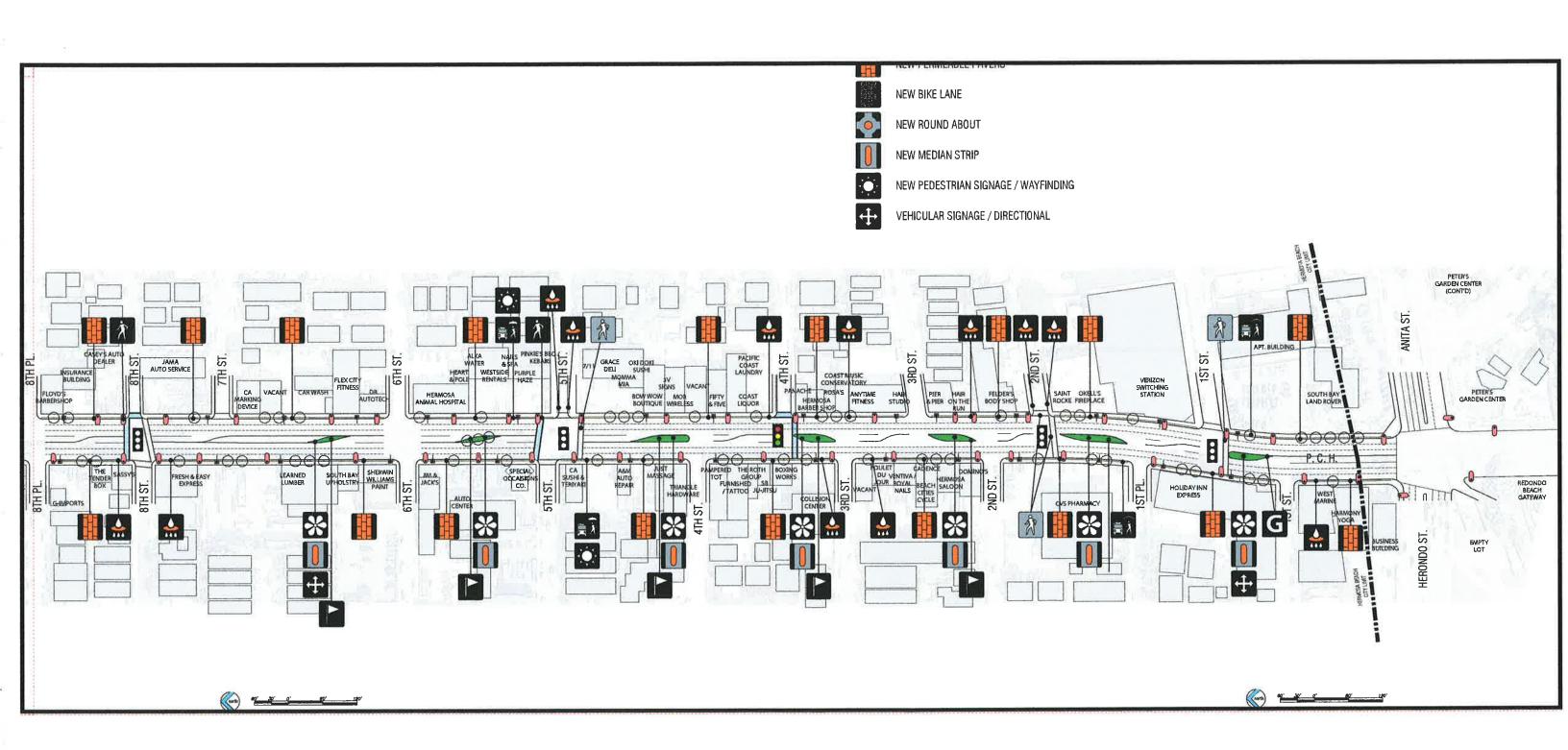
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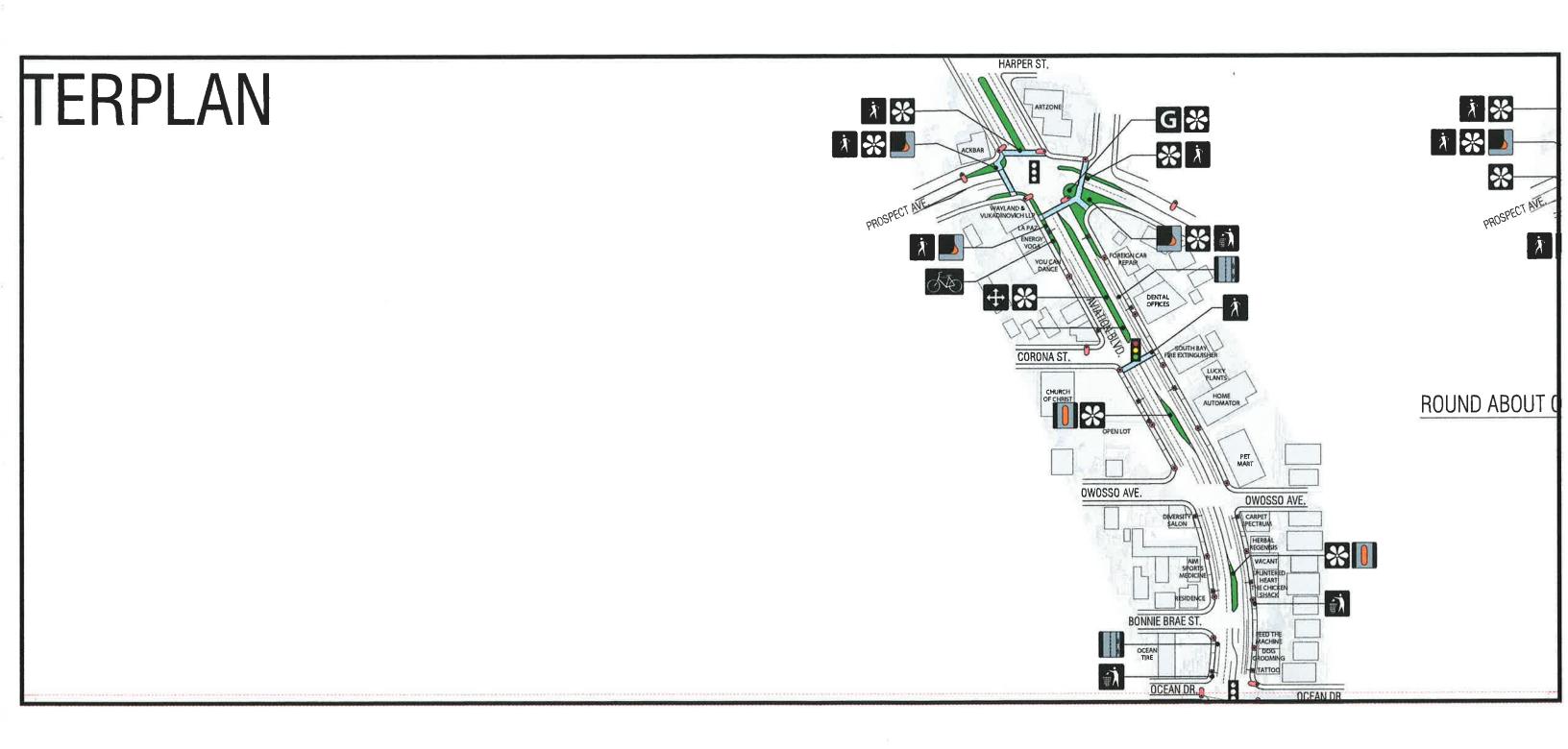
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ALTERNATIVE #2

SHEET 3 of 4



ALTERNATIVE # 2

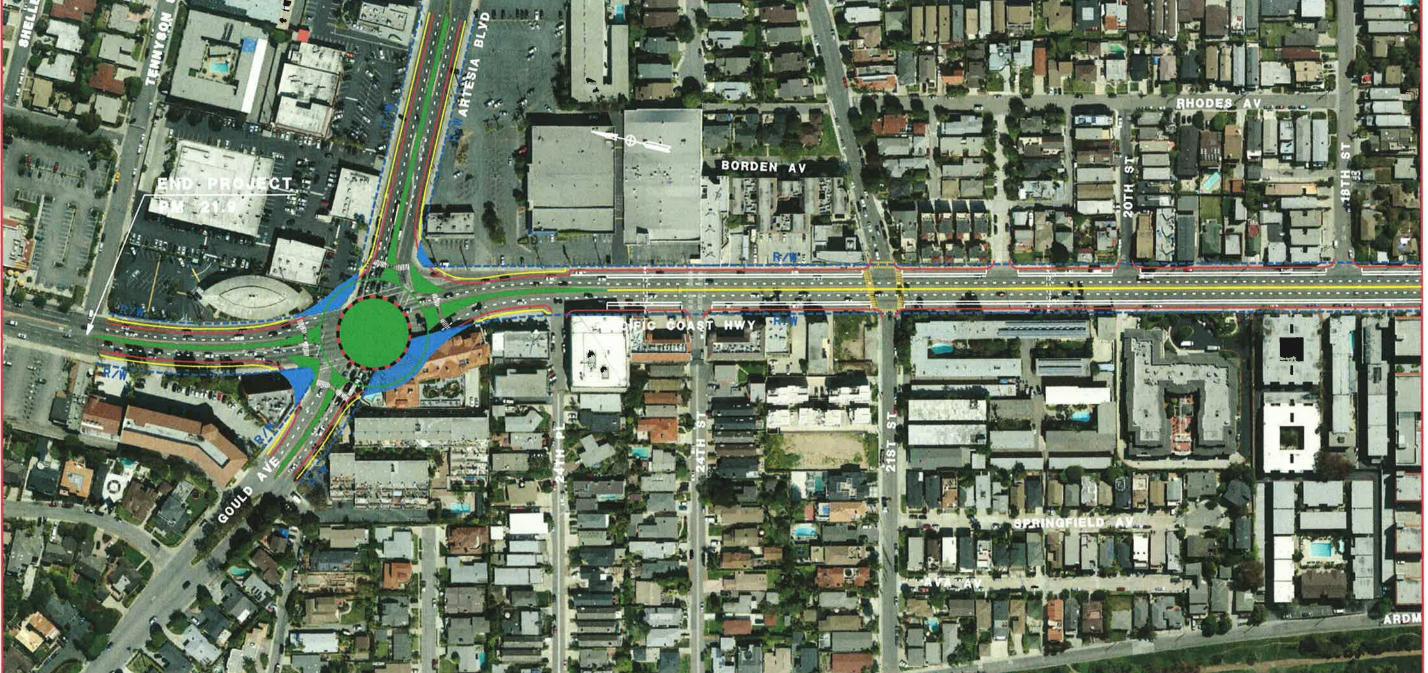
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NOTE:

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: LANDSCAPED MEDIAN

* Left turn pockets may be consolidated at minor intersections between Aviation Blvd. and Herondo St.

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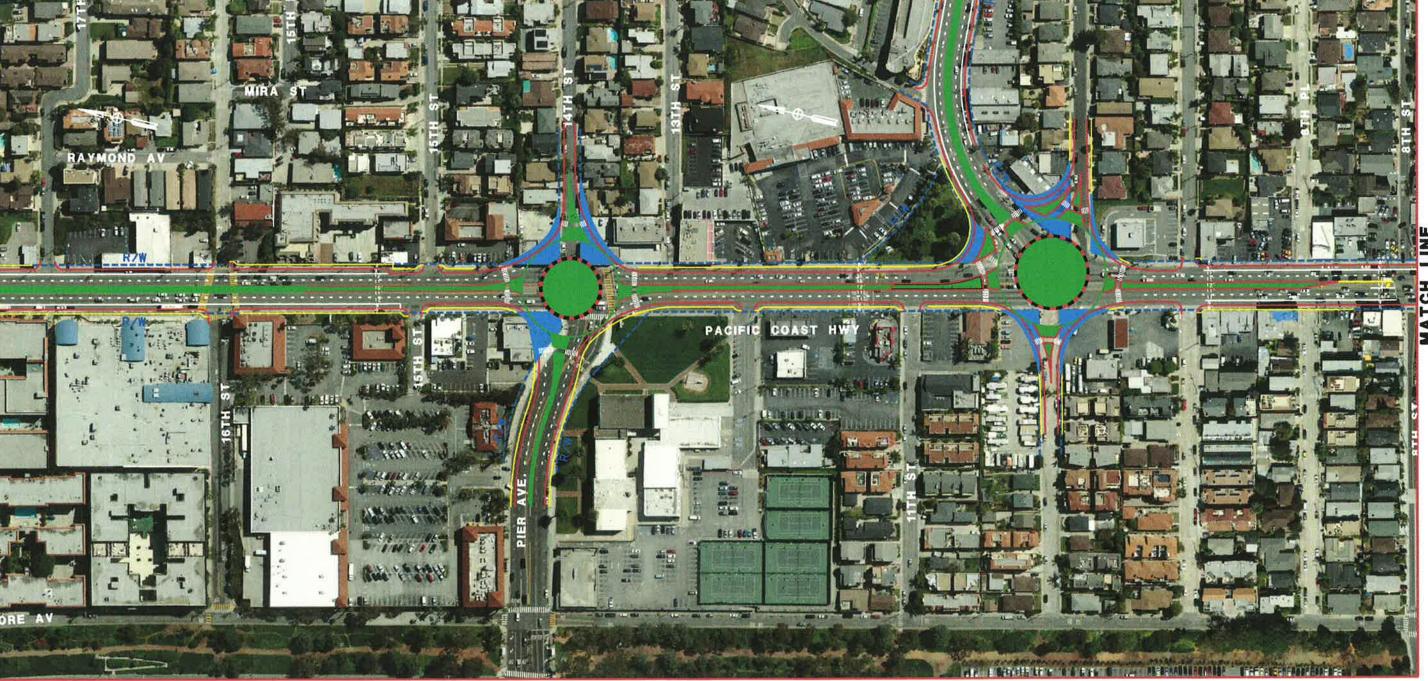
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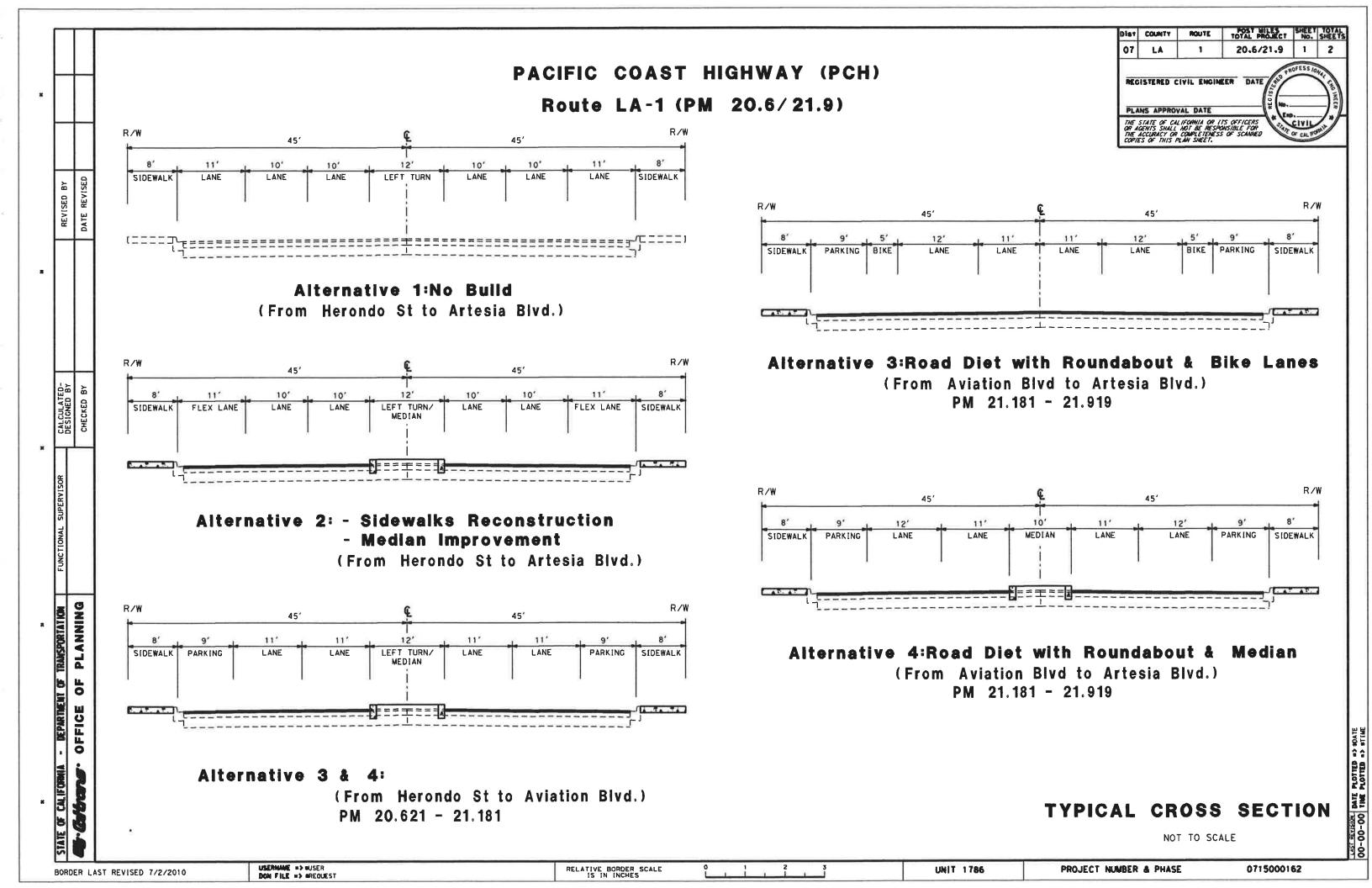
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PROJECT NUMBER & PHASE

UNIT 1786

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Project Study Report - Project Development Support Capital Outlay Project Estimate

Dist - Co - Rte <u>07-LA-1</u> PM <u>20.6/21.9</u>

Program Code <u>20.XX.400.100</u> Project Number <u>0715000162</u> Month/Year <u>01/2015</u>

Project Description:

Limits:

On PCH between Anita Street/Herondo Street (PM 20.621) and Artesia Boulevard (PM 21.919). On Aviation Boulevard between PCH and Prospect Avenue.

Proposed Improvement (Scope):

. Underground utility lines; Reconstruct sidewalks; Construct landscaped median

Alternative 2 State Right of Way Summary of Project Cost Estimate

	Cost (Low)	Cost (High)
TOTAL ROADWAY ITEMS	\$14,080,000	\$14,080,000
TOTAL STRUCTURE ITEMS	\$0	\$0
TOTAL ENVIRONMENTAL MITIGATION ITEMS	\$512,000	\$848,000
SUBTOTAL CONSTRUCTION COSTS	\$14,592,000	\$14,928,000
RIGHT OF WAY TOTAL PROJECT CAPITAL OUTLAY COSTS	\$7,100,000	\$9,900,000
USE	\$21,000,000	\$25,000,000

I. ROADWAY ITEMS

Items	Cost (Low)	Cost (High)
1. Access Improvements	\$ 2,992,000	\$ 2,992,000
2. Trafic Signal and Lighting Improvements	\$ 6,800,000	\$ 6,800,000
3. Landscape	\$ 2,000,000	\$ 2,000,000
4. Sidewalk Improvements	\$ 2,288,000	\$ 2,288,000
5. Utility Relocation/Undergrounding	\$ See RoW	\$ See RoW
6. Traveled way Improvements, Roundabouts	\$ NA	\$ NA
TOTAL ROADWAY ITEMS	\$ 14,080,000	\$ 14,080,000

Note: Roadway items include demolition, earthwork, structural section, drainage, landscape specialty items, traffic items, minor items, mobilization, TMP, and contingencies

II. STRUCTURES ITEMS

Structure Name	Cost (Low)	Cost (High)
N/A	\$	0	\$	0
TOTAL STRUCTURE ITEMS	\$	0	\$	0

III. ENVIRONMENTAL MITIGATION

Items	Cost (Low)		Cost (High)	
1. Hazardous Materials	\$	80,000	\$	400,000
2. Storm Water (DPP, Construction Site)	\$	432,000	\$	448,000
TOTAL MITIGATION ITEMS	\$	512,000	\$	848,000
See Attachment E				

IV. RIGHT OF WAY ITEMS

Items	C	cost (Low)	C	ost (High)
A. Acquisition, including excess lands,	\$	0	\$	0
B. Temporary Construction Easement	\$	600,000	\$	900,000
C. Utility Relocation / Undergrounding	\$_	6,500,000	\$	9,000,000
TOTAL RIGHT OF WAY ITEMS	\$	7,100,000	\$	9,900,000
See Attachment G				

Project Study Report - Project Development Support Capital Outlay Project Estimate

Dist - Co - Rte <u>07-LA-1</u> PM <u>20.6/21.9</u>

Program Code <u>20.XX.400.100</u> Project Number <u>0715000162</u> Month/Year <u>01/2015</u>

Project Description:

Limits:

On PCH between Anita Street/Herondo Street (PM 20.621) and Artesia Boulevard (PM 21.919). On Aviation Boulevard between PCH and Prospect Avenue.

Proposed Improvement (Scope):

. Relocate/underground utility lines; Reconstruct sidewalks; Construct roundabouts; Remove median; Cold plane and AC Overlay

Alternative 3 State Right of Way Summary of Project Cost Estimate

	Cost (Low)	Cost (High)
TOTAL ROADWAY ITEMS	\$15,280,000	\$18,336,000
TOTAL STRUCTURE ITEMS	\$0	\$0
TOTAL ENVIRONMENTAL MITIGATION ITEMS	\$2,080,000	\$5,360,000
SUBTOTAL CONSTRUCTION COSTS	\$17,360,000	\$23,696,000
RIGHT OF WAY	\$60,600,000	\$99,400,000
TOTAL PROJECT CAPITAL OUTLAY COSTS	\$77,960,000	\$123,096,000
USE	\$78,000,000	\$123,000,000

I. ROADWAY ITEMS

Cost (Low)	Cost (High)
\$ 2,720,000	\$ 3,264,000
\$ 5,600,000	\$ 6,720,000
\$ 1,920,000	\$ 2,304,000
\$ 2,400,000	\$ 2,880,000
\$ See RoW	\$ See RoW
\$ 2,640,000	\$ 3,168,000.0
\$ 15,280,000	\$ 18,336,000
	\$ 2,720,000 \$ 5,600,000 \$ 1,920,000 \$ 2,400,000 \$ See RoW \$ 2,640,000

Note: Roadway items include demolition, earthwork, structural section, drainage, landscape specialty items, traffic items, minor items, mobilization, TMP, and contingencies

II. STRUCTURES ITEMS

Structure Name	Cost	(Low)	Cost (High)
N/A	\$	0	\$	0
TOTAL STRUCTURE ITEMS		0	\$	0

III. ENVIRONMENTAL MITIGATION

Items	C	Cost (Low)	<u>C</u>	ost (High)
1. Hazardous Materials	\$_	1,600,000	\$	4,800,000
2. Storm Water (DPP, Construction Site)	\$	480,000	\$	560,000
TOTAL MITIGATION ITEMS	\$	2,080,000	\$	5,360,000
See Attachment E				

IV. RIGHT OF WAY ITEMS

Items	Cost (Low)	Cost (High)
A. Acquisition, including excess lands,	\$ 55,000,000	\$ 82,500,000
B. Temporary Construction Easement	\$ 600,000	\$ 900,000
C. Utility Relocation / Undergrounding	\$5,000,000	\$16,000,000
TOTAL RIGHT OF WAY ITEMS	\$ 60,600,000	\$ 99,400,000
See Attachment G		

Project Study Report - Project Development Support Capital Outlay Project Estimate

Dist - Co - Rte <u>07-LA-1</u> PM <u>20.6/21.9</u>

Program Code <u>20.XX.400.100</u> Project Number <u>0715000162</u> Month/Year <u>01/2015</u>

Project Description:

Limits:

On PCH between Anita Street/Herondo Street (PM 20.621) and Artesia Boulevard (PM 21.919). On Aviation Boulevard between PCH and Prospect Avenue.

Proposed Improvement (Scope):

. Relocate/underground utility lines; Reconstruct sidewalks; Construct roundabouts; Reconstruct median; Cold plane and AC Overlay

Alternative 4 State Right of Way Summary of Project Cost Estimate

	Cost (Low)	Cost (High)
TOTAL ROADWAY ITEMS	\$16,720,000	\$20,064,000
TOTAL STRUCTURE ITEMS	\$0	\$0
TOTAL ENVIRONMENTAL MITIGATION ITEMS	\$2,120,000	\$5,440,000
SUBTOTAL CONSTRUCTION COSTS	\$18,840,000	\$25,504,000
RIGHT OF WAY TOTAL PROJECT CAPITAL OUTLAY COSTS	\$60,600,000	\$99,400,000
USE	\$80,000,000	\$125,000,000

I. ROADWAY ITEMS

Items	Cost (Low)	Cost (High)
1. Access Improvements	\$ 3,040,000	\$ 3,648,000
2. Trafic Signal and Lighting Improvements	\$ 6,080,000	\$ 7,296,000
3. Landscape	\$ 2,800,000	\$ 3,360,000
4. Sidewalk Improvements	\$ 2,400,000	\$ 2,880,000
5. Utility Relocation/Undergrounding	\$ See RoW	\$ See RoW
6. Traveled way Improvements, Roundabouts	\$ 2,400,000	\$ 2,880,000.0
TOTAL ROADWAY ITEMS	\$ 16,720,000	\$ 20,064,000

Note: Roadway items include demolition, earthwork, structural section, drainage, landscape specialty items, traffic items, minor items, mobilization, TMP, and contingencies

II. STRUCTURES ITEMS

Structure Name	Cost (Cost (Low)		Cost (High)	
N/A	\$	0	\$	0	
TOTAL STRUCTURE ITEMS	\$	0	\$	0	

III. ENVIRONMENTAL MITIGATION

Items	Cost (Low)		Cost (High)	
1. Hazardous Materials	\$	1,600,000	\$	4,800,000
2. Storm Water (DPP, Construction Site)	\$	520,000	\$	640,000
TOTAL MITIGATION ITEMS	\$	2,120,000	\$	5,440,000
See Attachment E				

IV. RIGHT OF WAY ITEMS

Items	Cost (Low)	Cost (High)
A. Acquisition, including excess lands,	\$ 55,000,000	\$ 82,500,000
B. Temporary Construction Easement	\$ 600,000	\$ 900,000
C. Utility Relocation / Undergrounding	\$ 5,000,000	\$16,000,000
TOTAL RIGHT OF WAY ITEMS	\$ 60,600,000	\$ 99,400,000
See Attachment G		

Project Study Report - Project Development Support Capital Outlay Project Estimate

Dist - Co - Rte <u>07-LA-1</u> PM <u>20.6/21.9</u>

Program Code <u>20.XX.400.100</u> Project Number <u>0715000162</u> Month/Year <u>01/2015</u>

Project Description:

Limits:

On PCH between Anita Street/Herondo Street (PM 20.621) and Artesia Boulevard (PM 21.919). On Aviation Boulevard between PCH and Prospect Avenue.

Proposed Improvement (Scope):

. Underground utility lines; Reconstruct sidewalks; Construct landscaped median

Alternative 2 City Right of Way Summary of Project Cost Estimate

	Cost (Low)	Cost (High)
TOTAL ROADWAY ITEMS	\$3,520,000	\$3,520,000
TOTAL STRUCTURE ITEMS	\$0	\$0
TOTAL ENVIRONMENTAL MITIGATION ITEMS	\$128,000	\$212,000
SUBTOTAL CONSTRUCTION COSTS	\$3,648,000	\$3,732,000
RIGHT OF WAY	\$6,660,000	\$7,940,000
TOTAL PROJECT CAPITAL OUTLAY COSTS	\$10,308,000	\$11,672,000
USE	\$10,000,000	\$12,000,000

I. ROADWAY ITEMS

Items	Cost (Low)		Cost (High	
1. Access Improvements	\$	748,000	\$	748,000
2. Trafic Signal and Lighting Improvements	\$	1,700,000	\$	1,700,000
3. Landscape	\$	500,000	\$	500,000
4. Sidewalk Improvements	\$	572,000	\$	572,000
5. Utility Relocation/Undergrounding	\$ See RoW		\$ See RoW	
6. Traveled way Improvements, Roundabouts	\$ <u>NA</u>		\$ N	A
TOTAL ROADWAY ITEMS	\$	3,520,000	\$	3,520,000

Note: Roadway items include demolition, earthwork, structural section, drainage, landscape specialty items, traffic items, minor items, mobilization, TMP, and contingencies

II. STRUCTURES ITEMS

Structure Name	Cost (Low)		Cost (High)	
N/A	\$	0	\$	0
TOTAL STRUCTURE ITEMS	\$	0	\$	0

III. ENVIRONMENTAL MITIGATION

Items	Cost (Low)		Cost (High)	
1. Hazardous Materials	\$	20,000	\$	100,000
2. Storm Water (DPP, Construction Site)	\$	108,000	\$	112,000
TOTAL MITIGATION ITEMS	\$	128,000	\$	212,000
See Attachment E				

IV. RIGHT OF WAY ITEMS

Items	Cost (Low)		Cost (High)	
A. Acquisition, including excess lands,	\$	0	\$	0
B. Temporary Construction Easement	\$	160,000	\$	240,000
C. Utility Relocation / Undergrounding	\$	6,500,000	\$	7,700,000
TOTAL RIGHT OF WAY ITEMS	\$	6,660,000	\$	7,940,000
See Attachment G				

Project Study Report - Project Development Support Capital Outlay Project Estimate

Dist - Co - Rte <u>07-LA-1</u> PM <u>20.6/21.9</u>

Program Code <u>20.XX.400.100</u> Project Number <u>0715000162</u> Month/Year <u>01/2015</u>

Project Description:

Limits:

On PCH between Anita Street/Herondo Street (PM 20.621) and Artesia Boulevard (PM 21.919). On Aviation Boulevard between PCH and Prospect Avenue.

Proposed Improvement (Scope):

. Relocate/underground utility lines; Reconstruct sidewalks; Construct roundabouts; Remove median; Cold plane and AC Overlay

Alternative 3 City Right of Way Summary of Project Cost Estimate

	Cost (Low)	Cost (High)
TOTAL ROADWAY ITEMS	\$3,820,000	\$4,584,000
TOTAL STRUCTURE ITEMS	\$0	\$0
TOTAL ENVIRONMENTAL MITIGATION ITEMS	\$520,000	\$1,340,000
SUBTOTAL CONSTRUCTION COSTS	\$4,340,000	\$5,924,000
RIGHT OF WAY	\$11,160,000	\$14,840,000
TOTAL PROJECT CAPITAL OUTLAY COSTS	\$15,500,000	\$20,764,000
USE	\$15,000,000	\$21,000,000

I. ROADWAY ITEMS

Items	Cost (Low)	Cost (High)
1. Access Improvements	\$ 680,000	\$ 816,000
2. Trafic Signal and Lighting Improvements	\$ 1,400,000	\$ 1,680,000
3. Landscape	\$ 480,000	\$ 576,000
4. Sidewalk Improvements	\$ 600,000	\$ 720,000
5. Utility Relocation/Undergrounding	\$ See RoW	\$ See RoW
6. Traveled way Improvements, Roundabouts	\$660,000	\$792,000.0
TOTAL ROADWAY ITEMS	\$ 3,820,000	\$ 4,584,000

Note: Roadway items include demolition, earthwork, structural section, drainage, landscape specialty items, traffic items, minor items, mobilization, TMP, and contingencies

II. STRUCTURES ITEMS

Structure Name	Cost	Cost (Low)		Cost (High)	
N/A	\$	0	\$	0	
TOTAL STRUCTURE ITEMS		0	\$	0	

III. ENVIRONMENTAL MITIGATION

Items	Cost (Low)		Cost (High)	
1. Hazardous Materials	\$	400,000	\$	1,200,000
2. Storm Water (DPP, Construction Site)	\$	120,000	\$	140,000
TOTAL MITIGATION ITEMS	\$	520,000	\$	1,340,000
See Attachment E				

IV. RIGHT OF WAY ITEMS

Items	Cost (Low)	Cost (High)
A. Acquisition, including excess lands,	\$ 4,000,000	\$ 6,000,000
B. Temporary Construction Easement	\$ 160,000	\$ 240,000
C. Utility Relocation / Undergrounding	\$7,000,000	\$8,600,000
TOTAL RIGHT OF WAY ITEMS	\$ 11,160,000	\$ 14,840,000
See Attachment G		

Project Study Report - Project Development Support Capital Outlay Project Estimate

Dist - Co - Rte <u>07-LA-1</u> PM <u>20.6/21.9</u>

Program Code <u>20.XX.400.100</u> Project Number <u>0715000162</u> Month/Year <u>01/2015</u>

Project Description:

Limits:

On PCH between Anita Street/Herondo Street (PM 20.621) and Artesia Boulevard (PM 21.919). On Aviation Boulevard between PCH and Prospect Avenue.

Proposed Improvement (Scope):

. Relocate/underground utility lines; Reconstruct sidewalks; Construct roundabouts; Reconstruct median; Cold plane and AC Overlay

Alternative 4 City Right of Way Summary of Project Cost Estimate

	Cost (Low)	Cost (High)
TOTAL ROADWAY ITEMS	\$4,180,000	\$5,016,000
TOTAL STRUCTURE ITEMS	\$0	\$0
TOTAL ENVIRONMENTAL MITIGATION ITEMS	\$530,000	\$1,360,000
SUBTOTAL CONSTRUCTION COSTS	\$4,710,000	\$6,376,000
RIGHT OF WAY	\$11,160,000	\$14,840,000
TOTAL PROJECT CAPITAL OUTLAY COSTS	\$15,870,000	\$21,216,000
USE	\$16,000,000	\$22,000,000
OUL	Ψ10,000,000	Ψ22,000,000

I. ROADWAY ITEMS

Items	Cost	(Low)	C	ost (High)
1. Access Improvements	\$	760,000	\$	912,000
2. Trafic Signal and Lighting Improvements	\$ 1	,520,000	\$	1,824,000
3. Landscape	\$	700,000	\$	840,000
4. Sidewalk Improvements	\$	600,000	\$	720,000
5. Utility Relocation/Undergrounding	\$ See F	RoW	\$ Se	ee RoW
6. Traveled way Improvements, Roundabouts	\$	600,000	\$	720,000.0
TOTAL ROADWAY ITEMS	\$ 4	,180,000	\$	5,016,000

Note: Roadway items include demolition, earthwork, structural section, drainage, landscape specialty items, traffic items, minor items, mobilization, TMP, and contingencies

II. STRUCTURES ITEMS

Structure Name	Cost	(Low)	Cost (High)
N/A	\$	0	\$	0
TOTAL STRUCTURE ITEMS	\$	0	\$	0

III. ENVIRONMENTAL MITIGATION

Items	Co	ost (Low)	Co	ost (High)
1. Hazardous Materials	\$	400,000	\$	1,200,000
2. Storm Water (DPP, Construction Site)	\$	130,000	\$	160,000
TOTAL MITIGATION ITEMS	\$	530,000	\$	1,360,000
See Attachment E			9	

IV. RIGHT OF WAY ITEMS

Items	Cost (Low)	Cost (High)
A. Acquisition, including excess lands,	\$ 4,000,000	\$ 6,000,000
B. Temporary Construction Easement	\$ 160,000	\$ 240,000
C. Utility Relocation / Undergrounding	\$7,000,000	\$8,600,000
TOTAL RIGHT OF WAY ITEMS	\$ 11,160,000	\$ 14,840,000
See Attachment G		

To:

Amir Elsharief, Design Manager

Program Management

District 7, Los Angeles Office

From:

Dan Murdoch, Office Chief

Right of Way Appraisals, and Planning & Management

District 7, Los Angeles Office

Date: 1/9/15

07-LA-1-PMPM 20.6/21.9

Project ID#

EA: 31500K

Data Sheet ID NO: ds1183

A Field Review was conducted

Scope of the Right of Way

Right of Way Required

Yes

Yes

Number of Parcels

51-100

Type of Parcels

Suburban

Land Area:

Fee:

Easement:

Displaced Persons/Businesses

No

Demolition/Clearance

No

Railroad Involvement

No

Utility Involvement

Yes

Cost Estimates

Support Costs

\$2,500,000 - \$3,500,000

Capital Costs

\$7,000,000 - \$10,000,000

Schedule

Right of Way will require 18 months to deliver a Right of Way Certification #1 from Final R/W Maps. This estimate is based on a Right of Way Certification date of 10/1/20.

Areas of Concern

The Right of Way cost contains an estimate for the proposed undergrounding of utilities within the project limits. It is assumed that these utilities will remain within the public right of way, and that no new right of way will be required for the undergrounding.

Undergrounding estimated at \$8,600,000.00

The estimator was provided with very preliminary plans and maps, which may ultimately be significantly revised, resulting in this conceptual cost estimate to be modified and updated.

To: Amir Elsharief, Design Manager

Program Management

District 7, Los Angeles Office

From: Dan Murdoch, Office Chief

Right of Way Appraisals, and Planning & Management

District 7, Los Angeles Office

Date: 1/9/15

07-LA-1-PMPM 20.6/21.9

Project ID # EA: 31500K

Data Sheet ID NO: ds1182

A Field Review was conducted Yes

Scope of the Right of Way

Right of Way Required

Yes

Number of Parcels

>100

Type of Parcels

Suburban

Land Area:

Fee:

Easement:

Displaced Persons/Businesses

Yes

Demolition/Clearance

Yes

Railroad Involvement

No

Utility Involvement

Yes

Cost Estimates

Support Costs

\$4,500,000 - \$6,000,000

Capital Costs

\$60,000,001 - \$100,000,000

Schedule

Right of Way will require 36 months to deliver a Right of Way Certification #1 from Final R/W Maps. This estimate is based on a Right of Way Certification date of 10/1/20.

Areas of Concern

The Right of Way cost contains an estimate for the proposed undergrounding of utilities within the project limits. It is assumed that these utilities will remain within the public right of way, and that no new right of way will be required for the undergrounding.

Undergrounding estimated at \$8,600,000.00

The estimator was provided with very preliminary plans and maps, which may ultimately be significantly revised, resulting in this conceptual cost estimate to be modified and updated.

To: Amir Elsharief, Design Manager

Program Management

District 7, Los Angeles Office

From: Dan Murdoch, Office Chief

Right of Way Appraisals, and Planning & Management

District 7, Los Angeles Office

Date: 1/9/15

07-LA-1-PMPM 20.6/21.9

Project ID # EA: 31500K

Data Sheet ID NO: ds1181

A Field Review was conducted Yes

Scope of the Right of Way

Right of Way Required

Yes

Number of Parcels

>100

Type of Parcels

Suburban

Land Area:

Fee:

Easement:

Displaced Persons/Businesses

Yes

Demolition/Clearance

Yes

Railroad Involvement

No

Utility Involvement

Yes

Cost Estimates

Support Costs

\$4,500,000 - \$6,000,000

Capital Costs

\$60,000,001-\$100,000,000

Schedule

Right of Way will require 36 months to deliver a Right of Way Certification #1 from Final R/W Maps. This estimate is based on a Right of Way Certification date of 10/1/20.

Areas of Concern

The Right of Way cost contains an estimate for the proposed undergrounding of utilities within the project limits. It is assumed that these utilities will remain within the public right of way, and that no new right of way will be required for the undergrounding.

Undergrounding estimated at \$8,600,000.00

The estimator was provided with very preliminary plans and maps, which may ultimately be significantly revised, resulting in this conceptual cost estimate to be modified and updated.

To:

Amir Elsharief, Design Manager

Program Management

District 7, Los Angeles Office

From:

Dan Murdoch, Office Chief

Right of Way Appraisals, and Planning & Management

District 7, Los Angeles Office

Date: 1/20/15

07-LA-Aviation Blvd-PMBtwn Prospect

& Pacific Coast Highway Project ID # 0715000162

EA: 31500K Alt. 2 Aviation Blvd.

Data Sheet ID NO: ds1196

A Field Review was conducted

Scope of the Right of Way

Right of Way Required

Yes

Number of Parcels

26-50

Type of Parcels

Suburban

Land Area:

Fee:

Easement:

Displaced Persons/Businesses

Yes

Demolition/Clearance

Yes

Railroad Involvement

No

Utility Involvement

Yes

Cost Estimates

Support Costs

\$1,300,000.00 - \$1,800,000.00

Capital Costs

\$6,750,000.00 - \$8,000,000.00

Schedule

Right of Way will require 30 months to deliver a Right of Way Certification #1 from Final R/W Maps. This estimate is based on a Right of Way Certification date of 6/15/17.

Areas of Concern

The Right of Way cost contains an estimate for the proposed undergrounding of utilities within the project limits. It is assumed that these utilities will remain within the public Right of Way, and that no new right of way will be required for the undergrounding.

According to information provided to the estimator, pole lines are located on both sides of Aviation Blvd. Therefore this estimate includes undergrounding for both sides of the street.

Undergrounding estimated at \$6,500,000.00

The estimator was provided with very preliminary plans and maps, which may ultimately be significantly revised, resulting in the need for this conceptual cost estimate to be modified and updated.

To:

Amir Elsharief, Design Manager

Program Manager

District 7, Los Angeles Office

From:

Dan Murdoch, Office Chief

Right of Way Appraisals, and Planning & Management

District 7, Los Angeles Office

Date: 1/20/15

07-LA-Aviation Blvd-PMProspect /

Pacific Coast Highway Project ID # 0715000162

EA: 31500K Alt. 3 Aviation Blvd. Data Sheet ID NO: ds1191

A Field Review was conducted

Yes

Scope of the Right of Way

Right of Way Required

Yes

Number of Parcels

26-50

Type of Parcels

Suburban

Land Area:

Fee:

Easement:

Displaced Persons/Businesses

Yes

Demolition/Clearance

Yes

Railroad Involvement

No

Utility Involvement

Yes

Cost Estimates

Support Costs

\$1,400,000.00 - \$2,000,000.00

Capital Costs

\$11,000,000.00 - \$15,000,000.00

Schedule

Right of Way will require 30 months to deliver a Right of Way Certification #1 from Final R/W Maps. This estimate is based on a Right of Way Certification date of 6/15/17.

Areas of Concern

The Right of Way cost contains an estimate for the proposed undergrounding of utilities within the project limits. It is assumed that these utilities will remain within the public Right of Way, and that no new right of way will be required for the undergrounding.

According to information provided to the estimator, pole lines are located on both sides of Aviation Blvd. Therefore this estimate includes undergrounding for both sides of the street.

Undergrounding estimated at \$6,500,000.00

The estimator was provided with very preliminary plans and maps, which may ultimately be significantly revised, resulting in the need for this conceptual cost estimate to be modified and updated.

Amir Elsharief, Design Manager To:

Program Management

District 7, Los Angeles Office

From:

Dan Murdoch, Office Chief

Right of Way Appraisals, and Planning & Management

District 7, Los Angeles Office

Date: 1/20/15

07-LA-Aviation Blvd-PMProspect /

Pacific Coast Highway Project ID # 0715000162 EA: 31500K Alt. 4 Aviation

Data Sheet ID NO: ds1190

A Field Review was conducted Yes

Scope of the Right of Way

Right of Way Required

Yes

Number of Parcels

26-50

Type of Parcels

Suburban

Land Area:

Fee:

Easement:

Displaced Persons/Businesses

Yes Yes

Demolition/Clearance

Railroad Involvement

No

Utility Involvement

Yes

Cost Estimates

Support Costs

\$1,400,000.00 - \$2,000,000.00

Capital Costs

\$11,000,000.00 - \$15,000,000.00

Schedule

Right of Way will require 30 months to deliver a Right of Way Certification #1 from Final R/W Maps. This estimate is based on a Right of Way Certification date of 6/15/17.

Areas of Concern

The Right of Way cost contains an estimate for the proposed undergrounding of utilities within the project limits. It is assumed that these utilities will remain within the public Right of Way, and that no new right of way will be required for the undergrounding.

According to information provided to the estimator, pole lines are located on both sides of Aviation Blvd. Therefore this estimate includes undergrounding for both sides of the street.

Undergrounding estimated at \$6,500,000.00

The estimator was provided with very preliminary plans and maps, which may ultimately be significantly revised, resulting in the need for this conceptual cost estimate to be modified and updated.

1. Project Information

District	County	Route	PM	EA
07	LA	1	20.62/21.92	31500K
Project Title: PC	H/Hermosa Bea	ch Improvement Pr	oject Alternative Propo	osals
Desiret Managem			Phone #	
Project Manager			213-897-1051	
Zoe Yue				
Project Engineer			Phone #	
James Vu			213-897-0116	<u> </u>
Environmental C	Office Chief/Mar	nager	Phone #	
Karl Price			213-897-1839)
PEAR Preparer			Phone #	
Christine Lan			213-897-2936	5

2. Project Description

Purpose and Need

The City of Hermosa Beach has proposed a highway improvement project on Pacific Coast Highway (PCH/LA-1) between Herondo Street/Anita Street (PM 20.6) and Artesia Boulevard (PM 21.9). The project will also include Aviation Blvd between the intersections of Prospect Ave/Aviation Blvd and PCH/ Aviation Blvd. The purpose of this project is to incorporate complete street features, improve pedestrian and bicycle mobility, beautify the roadway, enhance traffic safety, and fulfill Americans with Disabilities Act (ADA) requirements.

The project is needed for four reasons: 1) the existing sidewalk is not ADA compliant, is in poor condition, and is generally narrow with protruding obstacles (i.e. utility poles) which discourages pedestrian use of the sidewalks, 2) there is no existing bike access on this section of PCH, 3) the bus stops are small and lack visibility, 4) the existing travel lanes are at non-standard widths and the intersection geometrics are inadequate for u-turn movements, hindering traffic flow.

Description of Work

All build alternatives will likely include right of way acquisition, demolition, earthwork, cold planing, grading, concrete work, re-striping, traffic control, staging, storm water BMPs and General BMPs.

Alternatives

There are three build alternatives and a no build alternative that are being considered:

Alternative 1: No-build

Revised April 2011

This alternative will maintain the existing facility in its current condition.

Alternative 2:

Within State Right of Way

This alternative will beautify Pacific Coast Highway and upgrade the existing sidewalks to ADA standards. Protruding obstacles that limit the clear width of the sidewalks will be removed and exposed utility lines will be buried underground. The existing two-way left turn lane will be reconstructed to provide space for a raised landscaped median. This alternative will maintain the existing travel lanes in their current condition.

Temporary Construction Easements will be required for adjusting driveways along the sidewalk to meet ADA requirements.

Within City Right of Way

On Aviation Blvd this alternative would remove protruding obstacles that limit the clear width of the sidewalks and exposed utility lines will be buried underground. The existing twoway left turn lane will be reconstructed to provide space for a raised landscaped median. One through-lane in the east bound direction will be eliminated, leaving only one through-lane in that direction. A 5ft bike lane will be added in each direction and parking will be provided on the side of the east bound direction.

Temporary Construction Easements will be required for adjusting driveways along the sidewalk to meet ADA requirements.

Alternative 3:

Within State Right of Way

This alternative proposes to develop two distinct segments on PCH within the project limit. The first segment is between Aviation Blvd and Artesia Blvd and the second segment is between Aviation Blvd and Anita St/Herondo St. Common design features between the two segments are: upgrading the sidewalks to current ADA standards; eliminating the outside (#3) lane in each direction to provide space for two lanes with standard widths of 11ft and providing permanent parking (9 ft wide) in each direction.

The first segment (between Aviation Blvd and Artesia Blvd) would have 5ft bike lanes in each direction and roundabouts proposed at the following intersections: PCH/Aviation Blvd, PCH/Pier Ave. and PCH/Artesia Blvd. The second segment (between Aviation Blvd and Anita St/Herondo St.) will have raised landscaped median and left-turn lanes at various intersections.

Temporary Construction Easements will be required for adjusting driveways along the sidewalk to meet the ADA requirements. Right of way acquisition will be required for construction of roundabouts. Utility obstacles along the sidewalks will be relocated underground.

Within City Right of Way

On Aviation Blvd this alternative would remove protruding obstacles that limit the clear width of the sidewalks and exposed utility lines will be buried underground. One through-lane in the east bound direction will be eliminated, leaving only one through-lane in that direction. A 5ft bike lane will be added in each direction and parking will be provided on the side of the east bound direction. A roundabout will be added at the intersection of Aviation Blvd and Prospect Ave.

Right of way acquisition will be required to construct the roundabout. Temporary Construction Easements will be required for adjusting driveways along the sidewalk to meet the ADA requirements.

Revised April 2011

Alternative 4

This alternative is similar to alternative 3, except that a landscaped median would be constructed instead of the bike lanes throughout the project area on both PCH and Aviation Blvd.

3. Anticipated Environmental Approval

Shook the anticipated environmental determination or document for the proposed project in the table below.

Check the anticipated environmental determinate CEQA			NEPA	
Environmental Determination				·
Statutory Exemption				
Categorical Exemption		Categorical E	xclusion	
Environmental Document				
Initial Study or Focused Initial Study with proposed Negative Declaration (ND) or Mitigated ND		with proposed Significant In Complex Env with proposed Significant In	vironmental Assessment d Finding of No npact	
Environmental Impact Report		Environment	al Impact Statement	
CEQA Lead Agency (if determined):			California Department of Transportation	of
Estimated length of time (months) to obapproval:	otain er	nvironmental	24 months	
Estimated person hours to complete ide	ntified	tasks:	See Attachment B	

4. Special Environmental Considerations

Alternatives 3 and 4 will require new right of way from private properties which may result in additional time needed to prepare the environmental document if there is project controversy regarding right of way.

5. Anticipated Environmental Commitments

Lead Compliance Plan (LCP)

Work Plan (WP)

Contractors will devise a work plan to address health and safety of workers performing the task of removal, containment, storage, and disposal of yellow thermoplastic and lead-based painted traffic stripe and pavement marking.

Storm Water Pollution Prevention Plan (SWPPP)

SWPPP will be required if the soil disturbance area is more than 1 acre.

Day Time Work Window

Potential day time work windows and limited night time construction due to noise concerns for adjacent residential areas.

Cultural Pre-Construction Survey

A Pre-Construction Survey is required for any uninvestigated areas within the APE to determine the presence of archeological resources.

Biology Pre-Construction Survey

Revised April 2011

A Pre-Construction Survey is required to determine if any endangered/threatened species is within the project impact area.

Endangered Species Sighting and Construction Halting

If any state and federal species are sighted during construction then all construction activities will cease and the district biologist will be notified immediately. Work should not resume until clearance is given by the district biologist.

Work Window and Biologist Monitor for Nesting Birds

No vegetation removal should take place between February 15th and September 1st if at all possible. A qualified biology monitor should be on site to monitor any vegetation removal activity. If nesting birds are observed before or during vegetation removal then all vegetation removal activities will be halted until it is determined that the fledglings have left the nest. Nesting birds may not be impacted by any construction activity including noise and dust pollution or the destruction of habitat.

Best Management Practices (BMPs)

Best Management Practices should be implemented to the Maximum Extent Practicable. They will be in place before and during project construction to avoid any water quality impacts. If at any time work, debris, or staging of equipment shall occur inside any channel, drainage, stream, rivers, or creek beds, the environmental division must be notified immediately.

6. Permits and Approvals

Local Coastal Development Permit (to be determined)- A short section of the project's south side post mile extends into the local coastal jurisdiction. The need for this permit will be determined during the next phase.

7. Level of Effort: Risks and Assumptions

Assumptions:

- Study limits and design alternatives have been properly identified by the City of Hermosa Beach and Caltrans' design team and will remain unchanged throughout the project study duration.
- The environmental document level identified in this report has been determined based on a
 preliminary evaluation of the project. However, it is impossible to foresee all project impacts at
 the preliminary project study stage. If additional unforeseen impacts arise a higher level
 environmental document may be required.
- There will be sufficient opportunities to address public concerns.

Risks:

- Additional right of way and relocation is needed for alternatives 3 and 4 of this project which
 may create public controversy for the project. Opposition from landowners may elevate the level
 of environmental document needed and will increase the time and cost needed to complete the
 project.
- Delays in obtaining a full description of engineering design details and other materials that are needed for environmental studies or permitting can cause additional delays.
- Delays from outside agencies in responding and processing permits can cause additional delays.

8. PEAR Technical Summaries

8.1 Land Use: No Effect

8.2 Growth: No Effect

8.3 Farmlands/Timberlands: No Effect

8.4 Community Impacts:

Based on the current project scope there will be substantial impacts to the community due to the acquiring of right of way from adjacent properties. 16 properties will be permanently impacted by alternatives 3 and 4 and relocation will be required for many of the properties. The project is also expected to impact numerous driveways to existing housing along PCH and Aviation Blvd. A Community Impacts Assessment will be needed along with a Relocation Study.

The installation of roundabouts proposed by alternatives 3 and 4 is somewhat controversial within the PDT and will likely generate controversy among the local residents and business owners. There is also concern that the roundabouts could adversely affect access to businesses within the project area and create an economic hardship. It has also been suggested by the City of Hermosa Beach that this may set a precedent that other adjacent cities will want to emulate, thereby potentially increasing whatever impacts (positive or negative) their construction may cause.

This determination is based on approximate project footprint maps. Actual impact of the surrounding area will be determined in later phases when right of way data is available.

8.5 Visual/Aesthetics:

The project is expected to have a positive effect on Visual and Aesthetics with the addition of landscaped medians and roundabouts. A study on visual and aesthetics can be requested during the PAED phase to assess for the project improvements.

8.6 Cultural Resources:

According to the current project scope this project has low archaeological sensitivity. There are no archaeological sites within or adjacent to the project based on the district 7 records search. Any uninvestigated areas within the APE should be surveyed by a qualified archaeologist prior to project approval. The estimated time for cultural review is one to three months.

8.7 Hydrology and Floodplain:

The project location is outside of the 100 Year Flood Zones in the USA based on a Federal Emergency Management Agency (FEMA) Flood Zones search.

8.8 Water Quality and Storm Water Runoff:

The Storm Water Pollution Prevention Plan (SWPPP) is a document that addresses water pollution control for a construction project. The Construction General Permit (CGP) requires that all storm water discharges associated with construction activity, where said activity results in soil disturbance of one acre or more of land area, must be permitted under the CGP and have a fully developed site SWPPP on-site prior to beginning any soil disturbing activities. Caltrans may require the development of a SWPPP for projects with disturbed soil areas of less than 1 acre if it is determined that the project possesses a significant water quality risk.

All of the build alternatives will be subject to the same requirements.

8.9 Geology, Soils, Seismic and Topography:

A geotechnical review of the project area will be required during PA/ED to fully evaluate potential effects.

8.10 Paleontology: No Effect

8.11 Hazardous Waste/Materials:

It is recommended that a Phase I Environmental Site Assessment (ESA) be prepared in accordance with ASTM guideline during the PAED/PS&E Phase to identify potential recognized environmental conditions (RECs) for the intersections specifically related to new R/W acquisition and construction activities.

Additionally, for new R/W acquisition purposes, it will be necessary to conduct a Phase II environmental site investigation (SI) for the parcels that are located within the reported REC sites. The SI must provide sufficient information to address the lateral extent and maximum depth of proposed excavation and proposed acquisition type (fees/easements).

Project concerns include:

- 25 recognized environmental conditions (RECs) sites were reported within 1,000 feet radius search from the project footprint.
- Yellow thermoplastic/paint striping that needs to be removed may contain lead and chromium at concentrations that are considered hazardous. The level of lead and chromium will be analyzed during later project phases to determine if the product needs to be disposed at a Class I facility.
- Roadway Improvements and Utility Relocation: These improvements will involve
 excavation work. A Phase II environmental SI shall be conducted that provides
 sufficient information to address the lateral extent and maximum depth of proposed
 excavation for all roadway improvements and utility relocation work.
- Right of Entry Permit and Property Access: Before Caltrans/consultant can access properties to conduct the recommended Phase I Environmental Site Assessment and Phase II Site Investigation, "Permit to Enter" permits (Permits) shall be required. It is important that the Permits must be obtained as early as possible to minimize project delay as the process can take up to 18 months to complete.

8.12 Air Quality:

Based on the current project's scope of work the proposed project is not exempt from conformity requirements according to 40 CFR 93.126-128. The proposed project must be included in the latest conforming Regional Transportation Plan (RTP) and Federal Transportation Improvement Program (FTIP) to satisfy regional conformity requirements and a conformity analysis should be prepared to demonstrate conformity at the project level.

The project is located in the South Coast Air Basin (SCAB) which has the following pollutant attainment status:

	Federal Status	State Status
Sulfur Dioxide (SO2)	Nonattainment	Nonattainment
Nitrogen Dioxide (NO2)	Nonattainment	Nonattainment
Carbon Monoxide (CO)	Maintenance	Attainment
ozone	Nonattainment	Nonattainment
PM10	Maintenance	Nonattainment
PM2.5	Nonattainment	Nonattainment
Lead	Nonattainment	Nonattainment

For projects in areas that are in maintenance or nonattainment of federal standards for CO, PM₁₀, or PM_{2.5}, a hot-spot analysis is required for CO, PM₁₀, or PM_{2.5} in accordance with the US EPA transportation conformity regulations for projects that are not considered exempt pursuant to 40 CFR 93.126.

Los Angeles County, where the proposed project is located, is within the South Coast Air Basin (SCAB), which is an attainment-maintenance area for PM10 and non-attainment for PM2.5. Per the EPA's final rule, for projects located in a PM nonattainment and maintenance area, an Interagency Consultation is required as part of the demonstration of transportation conformity requirements. The Interagency Coordination takes the form of the SCAG Transportation Conformity Working Group (TCWG), which includes representatives from Federal Highway Administration (FHWA), Environmental Protection Agency (EPA), Air Resource Board (ARB), South Coast Air Quality Management District (SCAQMD), and other local and state partners.

The proposed project is located within the boundary of SCAB; therefore, this project must comply with, among others, the SCAQMD Fugitive Dust Implementation Rule 403 to minimize temporary emissions during construction of the project as applicable and appropriate.

It is requested that the AQB be informed of any further changes to the proposed scope or the class of action determined for this project. Such changes may require an update or reassessment of air quality issues for the proposed project.

8.13 Noise and Vibration:

The project is located in a densely populated area adjacent to residential and commercial facilities. A number of sensitive receptors (e.g., schools) are located within 1000 feet. A Noise Study will be required during PAED to assess potential construction impacts.

Revised April 2011

8.14 Energy and Climate Change:

Improved traffic circulation, reduced traffic flow, and multimodal access will reduce the amount of vehicular traffic at this section of the roadway. All of the build alternatives are expected to result in a slight reduction in energy and vehicular usage and therefore a reduction in greenhouse gas emissions.

8.15 Biological Environment:

Based on the current project scope, impacts to biological resources are expected to be minimal because the immediate vicinity of the project is highly disturbed.

However, there are 11 state and/or federally listed threatened/endangered wildlife species in the areas adjacent to the project area. There are also four listed threatened/endangered plant species. There is no critical habitat in this area. The high number of threatened/endangered species is due to the project's close proximity to the Pacific Ocean's shore.

Additional evaluation of impacts on listed and sensitive bird species will be needed during the PA/ED phase of the project. Biology review is expected to take approximately six to nine months to deliver should biological surveys and endangered species consultation be required.

8.16 Cumulative Impacts: No Effect

8.17 Context Sensitive Solutions:

This project provides a transportation system that enhances the place in which it serves. The project will improve traffic operation by providing improved traffic flow through roundabouts. The project will also promote multi-modal transportation by improving bike, transit, and pedestrian access, thereby enhancing the quality of life of the local community.

9. Summary Statement for PSR or PSR-PDS

For each of the build alternatives, the primary environmental issue centers around the need to acquire additional right of way property.

Studies required:

- Natural Environmental Study (NES)
- Cultural Study
- Hazardous Waste Site Investigation (SI)
- Air Quality Report (AQR)
- Community Impacts Assessment
- Relocation Study
- Geotechnical Investigation
- Visual Analysis (optional)

Permits

• Local Coastal Permit (to be determined)

10. Disclaimer

This Preliminary Environmental Analysis Report (PEAR) provides information to support programming of the proposed project. It is not an environmental determination or document. Preliminary analysis, determinations, and estimates of mitigation costs are based on the project description provided in the Project Study Report (PSR). The estimates and conclusions in the PEAR are approximate and are based on cursory analyses of probable effects. A reevaluation of the PEAR will be needed for changes in project scope or alternatives, or in environmental laws, regulations, or guidelines.

11 List of Preparers

11. List of Preparers	
Cultural Resources specialist	Date: 1/9/2015
Alex Kirkish	
Biologist	Date: 1/12/2015
Celina Oliveri	
Community Impacts specialist	Date:
N/A	
Noise and Vibration specialist	Date: 1/20/2015
Jin Lee	
Air Quality specialist	Date: 1/9/2015
Andrew Yoon	
Paleontology specialist/liaison	Date:
N/A	
Water Quality specialist	Date:
N/A	
Hydrology and Floodplain specialist	Date:
N/A	
Hazardous Waste/Materials specialist	Date: 1/13/2015

Steve Chan	
Visual/Aesthetics specialist	Date:
N/A	
Energy and Climate Change specialist	Date:
N/A	
Other: N/A	Date:
PEAR Preparer (Name and Title)	Date: 1/21/2015
Christine Lan/ Associate Environmental Planner	

12. Review and Approval

I confirm that environmental cost, scope, and schedule have been satisfactorily completed and that the PEAR meets all Caltrans requirements. Also, if the project is scoped as a toutine EA, complex EA, or EIS, I verify that the HQ DEA Coordinator has concurred in the Class of Action.

Karlence	Date: 1/23/15
Environmental Branch Chief	
37	Date: 1/26/15

REQUIRED ATTACHMENTS:

Project/Manager

Attachment A: PEAR Environmental Studies Checklist Attachment B: Estimated Resources by WBS Code

Attachment C: Schedule (Gantt Chart)

Attachment D: PEAR Environmental Commitments Cost Estimate (Standard PSR)

Attachment A: PEAR Environmental Studies Checklist

Rev. 11/08

Environment		Memo	Report	Risk*	Comments
	Not anticipated	to file	required	LMH	Commente
Land Use	Ø			L	
Growth				L	
Farmlands/Timberlands				L	
Community Impacts	ifi —			L	
Community Impacts Community Character and Cohesion	H			L	
Relocations		TE -		L	
Environmental Justice			T	L	
				L	
Utilities/Emergency Services	H	H	T 🛱	L	
Visual/Aesthetics	+=	TX T		L	
Cultural Resources:		Ħ		ī	
Archaeological Survey Report		H	TH	L L	
Historic Resources Evaluation Report		 	T	17 1	
Historic Property Survey Report	X	 	12	L	
Historic Resource Compliance Report	 		17	L L	
Section 106 / PRC 5024 & 5024.5		+#-	12		
Native American Coordination		-14-	++-	+	
Finding of Effect	N N	12	12	 	
Data Recovery Plan		14-		+	
Memorandum of Agreement				 	
Other:		14-	12-	<u> </u>	
Hydrology and Floodplain		14	14-	<u> </u>	
Water Quality and Stormwater Runoff				L	
Geology, Soils, Seismic and	\boxtimes			L	
Topography			1	1	
Paleontology		144-	14-	L	
PER	\boxtimes	44-		1	
PMP	\boxtimes	14	14	-	
Hazardous Waste/Materials:		14_		L L	
ISA (Additional)				L	
PSI	\boxtimes			L	
Other:	\boxtimes			L	
Air Quality				L	
Noise and Vibration			\boxtimes	L	
Energy and Climate Change	\boxtimes			L	
Biological Environment			\boxtimes	L	
Natural Environment Study			\boxtimes	L	
Section 7:				L	
Formal				L	
Informal				L	
No effect				L	
Section 10				L	
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NMFS Consultation			$\exists \exists$	1	
Species of Concern (CNPS, USFS,				_	
BLM, S, F)					

Environment	al Studies	for PA	&ED C	hecklist	
	Not anticipated	Memo to file	Report required	Risk*	Comments
Wetlands & Other Waters/Delineation	\boxtimes			L	
404(b)(1) Alternatives Analysis				L	
Invasive Species	\boxtimes			L	
Wild & Scenic River Consistency	\boxtimes			L	
Coastal Management Plan	\boxtimes			L	
НММР				L	
DFG Consistency Determination	\boxtimes			L	
2081				L	
Other:				L	
Cumulative Impacts				L	
Context Sensitive Solutions		\boxtimes		L	
Section 4(f) Evaluation				L	
Permits:					
401 Certification Coordination	\boxtimes			L	
404 Permit Coordination, IP, NWP, or LOP				L	
1602 Agreement Coordination				L	
Local Coastal Development Permit Coordination				L	
State Coastal Development Permit Coordination				L	
NPDES Coordination				L	
US Coast Guard (Section 10)				L	
TRPA				L	
BCDC	\boxtimes			L	

ATTACHMENT B - Resources by WBS Code

Project ID: 07-1500-0162
EA: 07-31500K
Description: Hermosa Beach Roadway Improvement

Description: nermosa Beach Roadway Improvement	Janway II	IIDIONEII	2111																
WBS Task Activity Code	Division Chief	Office	Senior	Generalist	Blology	Cultural	Haz So Waste Ecor	Socio-Tetal	Storm Water To be Determined in later	: Steward-	Noise/Air- To be Datermined in later	alr-	s Design	Hydraulics	Landscape	Planning	Right of Way	Surveys	Total
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Perform Preliminary Engineering Studies and Dr.	aft Project R	port																	
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160.15 - Draft Project Report										+							Ì		•
160.30 — Environmental Study Request					+												Ħ		
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Project ID: 07-1500-0162 EA: 07-31500K Description: Hermosa Beach Roadway Improvement

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Project ID: 07-1500-0162
EA: 07-31500K
Description: Hermosa Beach Roadway Improvement

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Division			_		ninistration				S(4)	d Certificat	-									-				-		and Final			•	
	Unit	Ready to List"		ts "RTL"	and General Contract Adn	9	ction		en Contract Admin.	Licenses, Agreements an			al Compliance	al Violations		valuation		nv Stewardship	uo	ess		ration		pio		nal Construction Estimate	nmental Compliance	Mont after CCA		
WBS Task Activity Code	Assigned Unit	Contract Bid Documents "Ready to List"	260,75 - Env Cert at RTL	Total Contract Bid Documents "RTL"	Construction Engineering and General Contract Administration	270.15 - Construction Stakes	270.33 - Construction Inspection	270.66 - Technical Support	Total Const Engineering & Gen Contract Admin.	Administration of Permits, Licenses, Agreements and Certifications (PLACs) and Environmental Stewardship	280,10 - PLAC Compliance	280.40 - PLAC Violations	280,50 - Other Environmental Compliance	280.60 - Other Environments	280.70 - Updated ECR	280.75 - Environmental Reevaluation	280.80 - Updated PLACs	Total Admin of PLACs and Env Stewardship	Change Order Administration	285.05 - Change Order Process	285.10 - Functional Support	Total Change Order Administration	Disputes and Claims	290.40 - Potential Claim Record	Total Disputes and Claims	Accept Contract/Prepare Fli	295.35 - Certificate of Environmental Compliance	295.40 - Long Term Env Mit/Mont after CCA	Total Accept Contract	Total Project Hours

Attachment C: Project Schedule

Project Milestones		Scheduled Delivery Date (Month/Day/Year)
PROGRAM PROJECT	M015	2/2/2015
BEGIN ENVIRONMENTAL	M020	7/1/2015
CIRCULATE DPR & DED EXTERNALLY	M120	3/1/2017
PA&ED	M200	8/1/2017
PROJECT PS&E	M380	11/1/2019
RIGHT OF WAY CERTIFICATION	M410	1/1/2020
READY TO LIST	M460	6/1/2020
AWARD	M495	9/1/2020
APPROVE CONTRACT	M500	11/1/2020
CONTRACT ACCEPTANCE	M600	10/1/2021
END PROJECT	M800	12/1/2022

Attachment D: PEAR Environmental Commitments Cost Estimate

Standard PSR Only

(Prepare a separate form for each viable alternative described in the Project Study Report)

PART 1 PROJECT INFORMATION		rev. 11/08
District-County-Route-Post Mile	EA:	
07/LA/1-20.62/21.92	31500K	
Project Description:		
PCH/Hermosa Beach Improvement Projection	ect	
Form completed by (Name/District Office	e):	
Karl Price		
Project Manager:	Phone Nu	mber:
Zoe Yue	213-897-1	051
Date: 1/23/15		
PART 2 PERMITS AND AGREEMENTS		Y
		Permits and Agreements (\$\$)
Fish and Game 1602 Agreement		0
Coastal Development Permit		0
State Lands Agreement		0
Section 401 Water Quality Certificatio	0	
Section 404 Permit – Nationwide (U.S	S. Army	0

0

0

0

0

0

Section 404 Permit - Individual (U.S. Army

Section 9 Permit (U.S. Coast Guard)

Section 10 Navigable Waters Permit (U.S. Army

Corps)

Other:

Total (enter zeros if no cost)

PART 3. ENVIRONMENTAL COMMITMENTS FOR PERMANENT IMPACTS

To complete the following information:

- o Report costs in \$1,000s.
- Include all costs to complete the commitment:
 - O.K. to break down by phase: Design, ROW, Construction, and/or provide Sub-Total.
 - Capital outlay and staff support. Refer to Estimated Resources by WBS
 Code. For example, if you estimated 80 hours for biological monitoring
 (WBS 235.35 Long Term Mitigation Monitoring), convert those hours to a
 dollar amount for this entry. For current conversion rates from PY to
 dollars, see the Project Manager.
 - Cost of right of way or easements.
 - If compensatory mitigation is anticipated (for wetlands, for example), insert a range for purchasing credits in a mitigation bank.
 - Long-term monitoring and reporting
 - Any follow-up maintenance
 - Use current costs; the Project Manager will add an appropriate escalation factor.
 - This is an estimating tool, so a range is not only acceptable, but advisable.

	Envir	onmenta Alterna	al Commitments tive		
		ed Cost in	n \$1,000's		Notes
	Phases				
	<u>Design</u>	ROW	Construction	Sub- Total	
Noise abatement or mitigation	???	???	???	???	Unknown at this time
Special landscaping	0	0	0	0	
Archaeological resources	0	0	0	0	
Biological resources	0	0	0	0	
Historical resources	0	0	0	0	
Scenic resources	0	0	0	0	
Wetland/riparian resources	0	0	0	0	
Res./bus. relocations	???	???	???	???	Unknown at this time
Other:	0	0	0	0	
Total (enter zeros if no cost)	???	???	???	???	

*	Dist-County-R	oute: 07-LA-1			
	Post Mile Lim	its:20.6 -	21.9		
	Project Type:	Beautify road	dway & Improv	e mobility	:
			00162 (EA: 3		
).XX.400.100		
	Phase:		PID-PSR-PDS		
Caltrans			PA/ED		
wours*			PS&E		
Regional Water Quality Control Board(s):	Los Angeles	(Region 4)			
Is the Project required to consider Treatme	ent BMPs?			Yes 🖾	No 🖂
If yes, can Treatment BMPs	be incorporate	d into the pro	ject?	Yes 🔲	No ⊠
If No, a Technical D	ata Report mu	st be submitte	ed to the RWQ	OB	_
at least 30 days pri	or to the proje	cts RTL date.	Lis	st RTL Date: <u>02</u>	2/15/2016
Total Disturbed Soil Area: 1.74 acres (0.6 a					
Estimated: Construction Start Date: 04/			on Completion	Date: <u>08/2</u>	5/2016
Notice of Intent (NOI) Date to be submitted	: 03/15/20	<u> 16 </u>			
Erosivity Waiver		Yes 🖂	Date:		_ No ⊠
Notification of ADL reuse (if Yes, provide da	ite)	Yes 🔲	Date:		_ No ⊠
Separate Dewatering Permit (if yes, permit	number)	Yes 🔲	Permit #		
This Report has been prepared under the dire	ection of the fo	llowing Linence			
technical information contained herein and t	he date upon w	hich recomme	ndations, concl	lusions, and de	n allesis to the
based. Professional Engineer of Landscape A	rchitect stamp	required at PS	&E.		1
El 18 MM an				01/1	3/2015
Tommy Tran, Registered Project Engineer/l	andscape Arc	nitect			Date
I have reviewed the stormwater quality design	n iccues and fir	ed this report to	- ha aal-4-		
mate tenewed the stormwater quality design	I issues and in	iu triis report to	o de complete,	current and ac	curate:
				1/14	+/15
ZoeYue	, Project Mana	ger		51(1)	Date
	1			-	2 V.S.
Roger	astillo, Designa	ted-Maintenar	ce Representa	tive OI-1	3-15 Date
	1) (1)	To product		
	1				5.15
Ron Rus	ssak, Designate	ed Landscape A	Architect Repre	sentative	Date
Stomp Booulined for DCS Facility	W.L			1/1	5/215
Stamp Required for PS&E only) Shirley	Pak, District/Re	gional Design	SW Coordinato	r or Designee	Date

STORM WATER DATA INFORMATION

1. Project Description

The Project Study Report-Project Development Support (PSR-PDS) proposes to improve mobility and beautify the roadway at the following locations within the city of Hermosa Beach:

- On Pacific Coast Highway (PCH) State Route 1 between Anita Street/Herondo Street (PM 20.6) and Artesia Boulevard (PM 21.9).
- On Aviation Boulevard between PCH and Prospect Avenue.

There are four alternatives proposed for this project, including one "No Build" alternative and three "Build" alternatives:

- Alternative 1 (No Build): Maintain the current configuration of the existing facility. It is presented as a basis of comparison with the other alternatives.
- Alternative 2 ("City's Proposal"): This alternative proposes to bury utility lines, reconstruct sidewalks, and construct landscaped medians.
- Alternative 3 ("Road diet with bike lanes"): This alternative proposes to relocate/bury utility lines, reconstruct sidewalks, construct roundabouts, coldplane/overlay, and restripe for new bike lanes.
- Alternative 4 ("Road diet with landscaped median"): This alternative is similar
 to Alternative 3, except that a landscaped median would be constructed instead of the
 bike lanes.
- This Storm Water Data Report will evaluate potential storm water impacts, document storm water decisions, and BMP selections/strategies based on alternative 4.
- The total disturbed soil area (DSA) for the project is estimated at 1.74 acres (0.60 acres within State R/W) for alternative 4. This figure was calculated by accounting areas for construction of landscaped median and roundabouts.
- Proposed landscaped median and roundabouts will increase total permeable area within the project limits. The net impervious surface area decrease after the project completed is approximately 1.54 acres (0.40 acres within State R/W).
- The cost of Storm Water is based on Alternative 4 (the most costly alternative), which is \$24.1 million; this estimate is at early stage and will change on the later phases.

- This project lies within the limits of the Los Angeles County Municipal Separate Sewer Storm System (MS4) area.
- Site Data and Storm Water Quality Design Issues (refer to Checklists SW-1, SW-2, and SW-3)
- The project site is within the Los Angeles Regional Water Quality Control Board (LARWQCB 4) jurisdiction.
- Within the project limits, the receiving water body Santa Monica Bay Offshore/Nearshore 303(d) is listed. It is within the Lower Santa Monica Hydrologic Area and belongs to 404.70 Hydrological Sub-Area.
- The pollutants of concern for the project are identified based on California's 2010 303(d) list. Santa Monica Bay Offshore/Nearshore has been designated as impaired for DDT (tissue & sediment), Debris, Fish Consumption Advisory, PCBs (Polychlorinated biphenyls) (tissue & sediment), and Sediment Toxicity.
- The project limits are in the Santa Monica Bay. The total maximum daily loads (TMDLs) are:

Santa Monica Bay

Established TMDLs

<u>Dry Weather Bacteria TMDL for the Santa Monica Bay Beaches and Wet Weather Bacteria TMDL for the Santa Monica Bay Beaches</u>

The Dry Weather Bacteria TMDL for the Santa Monica Bay Beaches focuses on storm drain flows during summer and winter dry weathers. Caltrans is in compliance with the TMDL. The Wet Weather Bacteria TMDL for the Santa Monica Bay Beaches outlines 7 Jurisdiction Groups in the Santa Monica Bay coastal watersheds and assigns a Primary Responsible Jurisdiction and the Additional Responsible Jurisdictions and Agencies to each Jurisdiction Group. Caltrans participates in the Jurisdiction Groups as an Additional Responsible Agency and is working cooperatively with other Responsible Agencies toward compliance of the TMDL. Project Engineer shall consider treatment controls for the project and consult with the District NPDES Storm Water Coordinator.

Santa Monica Bay Nearshore and Offshore Debris TMDL

The Santa Monica Bay Nearshore and Offshore Debris TMDL became effective on March 20, 2012. The TMDL requires the Responsible Agencies in the Santa Monica Bay, Ballona Creek and Malibu Creek Watersheds, including Caltrans, to reduce amount of trash and plastic pellets in the storm water discharges to "zero" in eight (8) years. Responsible Agencies may implement a Minimum Frequency of Assessment and Collection (MFAC) Program in or adjacent to the waterbody or place full capture devices at the drainage outfalls. Project Engineer shall consider treatment controls for the project and consult with the District NPDES Storm Water Coordinator.

Santa Monica Bay Total Maximum Daily Load for DDT and PCBs

The Santa Monica Bay Total Maximum Daily Load for DDT and PCBs was adopted by the United States Environmental Protection Agency (USEPA) on March 26, 2012. The TMDL assigns waste load allocations for DDT and PCB to the Responsible Agencies in the Santa Monica Bay, Ballona Creek and Malibu Creek Watersheds, including Caltrans. Caltrans will be working with other Responsible Agencies to jointly comply with the TMDL. Project Engineer shall consider treatment controls for the project and consult with the District NPDES Storm Water Coordinator.

- There are no known drinking water reservoirs or recharge facilities within project limits.
- California Regional Water Quality Board 401 water certification permit is not required.
- The Environmental Document for this project is anticipated to be a Categorical Exemption /Categorical Exclusion.
- Within the project limits area, the average rainfall is 12.37 inches per year, rainy season starts from October ^{1st} to May ^{1st} with an approximate 265 sunny days annually.
- Risk Level Determination is 1.
- There will be no reuse of any soil containing Aerially Deposited Lead (ADL).
- Measures for avoiding or reducing potential storm water impacts are as follow: implemented during construction.
 - Disturb soil area only when necessary.
 - Early reseed on disturbed soil area as soon as possible.
- There is no existing treatment BMPs within the project limits and their association with the project.
- Any LARWQCB special requirements and concerns as well as the local agency will be finalized at the PS&E stage of the project development process.

3. Regional Water Quality Control Board Agreements

The Los Angeles Regional Water Quality Control Board (RWQCB) requires all new/major reconstruction projects that increase impervious area to evaluate the feasibility of post construction Treatment BMP's as a condition of the permit process.

Since this project is anticipating a CE (Categorical Exemption), there is no additional requirement from other permit based on the information available at this time.

4. Proposed Design Pollution Prevention BMPs to be used on the Project.

Downstream Effects Related to Potentially Increased Flow, Checklist DPP-1, Parts 1 and 2

- This project will decrease the volume and the sediment load of downstream flow.
- Within project limits, existing sidewalk will be removed and reconstructed with inlets and connect to existing storm drain systems that lead to receiving water body of the area.

- Hydraulic downstream is anticipated no change because the project will not encroach, cross or realign.
- The project will discharge to existing storm drains, and change the hydraulic capacity.

Slope/Surface Protection Systems, Checklist DPP-1, Parts 1 and 3

- The project scope will not create new slope or modify existing slopes.
- In the project area, most if not all areas are flat.

Concentrated Flow Conveyance Systems, Checklist DPP-1, Parts 1 and 4

 The project will not create or modify ditches, swales, and oversize drains. Surface runoff from proposed elevated structures will be conveyed through existing/proposed storm drain system and ultimately drain into the receiving water body of the area.

Preservation of Existing Vegetation, Checklist DPP-1, Parts 1 and 5

Clearing and grubbing limits will be clearly identified in the next phase.

The cost for Design Pollution Prevention BMPs at this phase is estimated to be \$480,000 based on the most costly alternative.

5. Proposed Permanent Treatment BMPs to be used on the Project

Treatment BMP Strategy, Checklist T-1

- In accordance with Deputy Directive DD-92 dated March 17, 2008 this project is required to consider all treatment BMPs recommended in the Corridor Stormwater Management Study (Corridor Study) completed on Route 1 (PM 0.0/31.3) in August, 2013.
- Per the Evaluation Documentation Form (EDF), this project is required to consider Treatment BMPs; however, no Treatment BMPs was recommended by the Corridor Stormwater Management Study (Corridor Study) within project limits.
- This project will not incorporate any Treatment BMPs.

6. Proposed Temporary Construction Site BMPs to be used on Project

- Project requires a Storm Water Pollution Prevention Plan (SWPPP) since the disturbed Soil Area (DSA) created by the project is more than one acre.
- On January 08, 2015, Jimmy Chan, District 7 Construction Storm Water Coordinator, agreed to the temporary construction strategy used for the scope of this project.

Total budgetary cost for construction site BMPs is approximately \$250,000 based on the most costly build alternative.

7. Maintenance BMPs (Drain Inlet Stenciling)

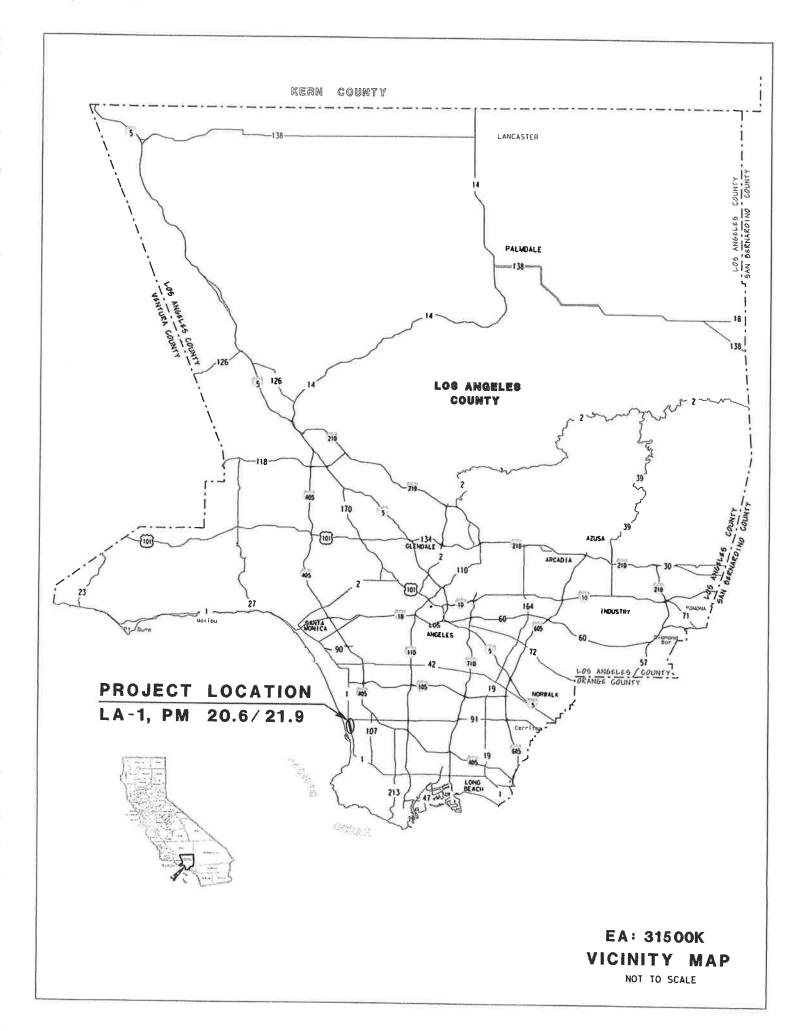
To be identified at a later project phase.

Required Attachments

- Vicinity Map
- Evaluation Documentation Form (EDF)
- Risk level Determination Documentation

Supplemental Attachments

Due to fact that this is PID (PSR-PDS) SWDR, the typical supplemental attachments are not required. No additional documentation / check lists were identified by the District Stormwater Coordinator as being necessary.



DATE: <u>01/06/2015</u>

Project ID (or EA): 0715000162 (EA: 31500K)

NO.	CRITERIA	YES ✓	NO ✓	SUPPLEMENTAL INFORMATION FOR EVALUATION		
1.	Begin Project Evaluation regarding requirement for consideration of Treatment BMPs	✓		See Figure 4-1, Project Evaluation Process for Consideration of Permanent Treatment BMPs. Go to 2		
2.	Is this an emergency project?		1	If Yes, go to 10. If No, continue to 3.		
3.	Have TMDLs or other Pollution Control Requirements been established for surface waters within the project limits? Information provided in the water quality assessment or equivalent document.	√		If Yes, contact the District/Regional NPDES Coordinator to discuss the Department's obligations under the TMDL (if Applicable) or Pollution Control Requirements, go to 9 or 4. (Dist/Reg. SW coordinator initials) If No, continue to 4.		
4.	Is the project located within an area of a local MS4 Permittee?			If Yes. (Los Angeles County), go to 5. If No, document in SWDR go to 5.		
5,	Is the project directly or indirectly discharging to surface waters?			If Yes, continue to 6. If No, go to 10.		
6.	Is it a new facility or major reconstruction?			If Yes, continue to 8. If No, go to 7.		
7	Will there be a change in line/grade or hydraulic capacity?			If Yes, continue to 8. If No, go to 10.		
8.	Does the project result in a net increase of one acre or more of new impervious surface?		If Yes, continue to 9. If No, go to 10.			
9.	Project is required to consider approved Treatment BMPs.	✓				
10.	Project is not required to consider Treatment BMPs(Dist./Reg. Design SW Coord. Initials)(Project Engineer Initials)(Date)		Document for Project Files by completing this form, and attaching it to the SWDR.			

See Figure 4-1, Project Evaluation Process for Consideration of Permanent Treatment

http://water.epa.gov/polwaste/npdes/stormwater/LEW-Results.cfm



Water: Stormwater

You are here: Water » Pollution Prevention & Control » Permitting (NPDES) » Stormwater » LEW Results

LEW Results

Rainfall Erosivity Factor Calculator for Small Construction Sites

Facility Information

Start Date:

04/15/2016

End Date:

08/25/2016

Latitude:

33.8647

Longitude:

-118.3930

Erosivity Index Calculator Results

AN EROSIVITY INDEX VALUE OF 1.59 HAS BEEN DETERMINED FOR THE CONSTRUCTION PERIOD OF 04/15/2016 - 08/25/2016.

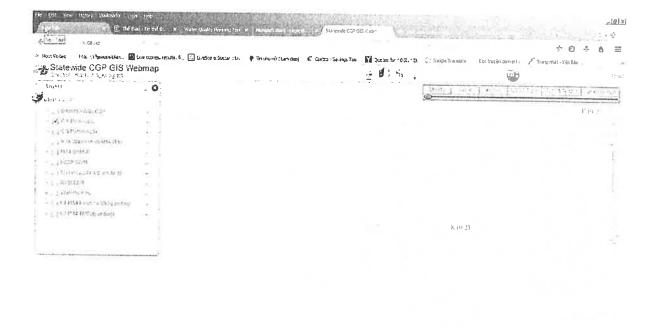
A rainfall erosivity factor of less than 5.0 has been calculated for your site and period of construction. Contact your permitting authority to determine if you are eligible for a waiver from NPDES permitting requirements. If you are covered under EPA's construction general permit then you can use eNOI to submit your low erosivity waiver certification.

If your construction activity extends past the project completion date you specified above, you must recalculate the R factor using the original start date and a new project completion date. If the recalculated R factor is still less than 5.0, a new waiver certification form must be submitted before the end of the original construction period. If the new R factor is 5.0 or greater, the operator must submit a Notice of Intent to be covered by the Construction General Permit before the original project completion date.

Start Over

Last updated on Monday, July 28, 2014

1. K = 0.2



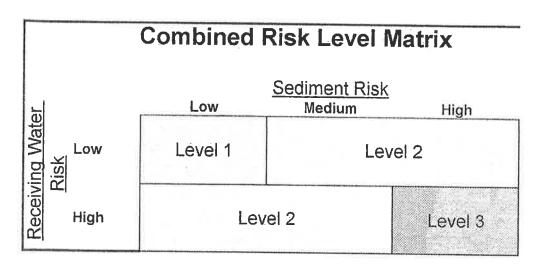
7 0 6 N L 0 825M E

2. LS = 1.4



	A	В	С						
1	Sediment Risk Factor Worksheet		Entry						
2	A) R Factor								
3	Analyses of data indicated that when factors other than rainfall are held constant, soil loss is direct rainfall factor composed of total storm kinetic energy (E) times the maximum 30-min intensity (I30 Smith, 1958). The numerical value of R is the average annual sum of El30 for storm events durin at least 22 years. "Isoerodent" maps were developed based on R values calculated for more than the Western U.S. Refer to the link below to determine the R factor for the project site.	0) (Wis	chmeier and						
4									
5	R Factor	Value	1.59						
6	B) K Factor (weighted average, by area, for all site soils)								
7	The soil-erodibility factor K represents: (1) susceptibility of soil or surface material to erosion, (2) to sediment, and (3) the amount and rate of runoff given a particular rainfall input, as measured und condition. Fine-textured soils that are high in clay have low K values (about 0.05 to 0.15) because resistant to detachment. Coarse-textured soils, such as sandy soils, also have low K values (about because of high infiltration resulting in low runoff even though these particles are easily detached. soils, such as a silt loam, have moderate K values (about 0.25 to 0.45) because they are moderate particle detachment and they produce runoff at moderate rates. Soils having a high silt content are susceptible to erosion and have high K values, which can exceed 0.45 and can be as large as 0.6 are easily detached and tend to crust, producing high rates and large volumes of runoff. Use Sitebe submitted.	er a sta the pa t 0.05 t Mediu ely sus e espec	andard urticles are to 0.2) um-textured aceptible to cially						
8	Site-specific K factor guidance								
9	K Factor	Value	0.2						
10	C) LS Factor (weighted average, by area, for all slopes)								
11	The effect of topography on erosion is accounted for by the LS factor, which combines the effects of a hillslope-length factor, L, and a hillslope-gradient factor, S. Generally speaking, as hillslope length and/or hillslope gradient increase, soil loss increases. As hillslope length increases, total soil loss and soil loss per unit area increase due to the progressive accumulation of runoff in the downslope direction. As the hillslope gradient increases, the velocity and erosivity of runoff increases. Use the LS table located in separate tab of this spreadsheet to determine LS factors. Estimate the weighted LS for the site prior to construction.								
12	LS Table								
13	LS Factor \	Value	1.4						
15	Watershed Erosion Estimate (=RxKxLS) in tons/acre		0.4452						
16 17 18 19 20	Site Sediment Risk Factor Low Sediment Risk: < 15 tons/acre Medium Sediment Risk: >=15 and <75 tons/acre High Sediment Risk: >= 75 tons/acre		Low						

Receiving Water (RW) Risk Factor Worksheet	Entry	Score	
A. Watershed Characteristics	yes/no		
A.1. Does the disturbed area discharge (either directly or indirectly) to a 303(d)-listed waterbody impaired by sediment (For help with impaired waterbodies please visit the link below) or has a USEPA approved TMDL implementation plan for sediment?: http://www.waterboards.ca.gov/water-issues/programs/tmdl/integrated2010.shtml OR A.2. Does the disturbed area discharge to a waterbody with designated beneficial uses of SPAWN & COLD & MIGRATORY? (For help please review the appropriate Regional Board Basin Plan)	no	Low	
http://www.waterboards.ca.gov/waterboards_map.shtml			
Region 1 Basin Plan			
Region 2 Basin Plan			
Region 3 Basin Plan			
Region 4 Basin Plan			
Region 5 Basin Plan			
Region 6 Basin Plan			
Region 6 Basin Plan Region 7 Basin Plan Region 8 Basin Plan			



Project Sediment Risk:

Low

Project RW Risk:

Low

Project Combined Risk:

Level 1

RISK REGISTER CERTIFICATION (ACCOUNTABILITY CHECKPOINTS)

Form PM-0001 (Rev. 4/2013)

The risk register is to approved and signed-off by the deputies* listed below for all scalability levels. By signing this form, you are certifying that you have reviewed the risks documented in the register and agree that they have been managed to the extent possible by the PDT.

Project Information	☑ Capital Project ☐ Major Maintenance Project (Check	One)
Project ID/District-EA	EFIS ID:0715000162/EA:07-31500	
Project Description	LA-001-20.6/21.9	e. 21
Project Manager (PM)	Zoe Yue	•
Project Risk Manager (for Risk Level 3 Projects)		-
No Risk Register Certification Required Check Box Sign below and submit this form with PID, PA&ED, PS&E	if project is less than \$1 million in total cost and risk registe submittal, and RE Handoff File (as applicable).	
Project Manager Signature	30%	Date: 1/26/2015
PID (Recommended for Capital Projects Only ex	cluding Minor Projects)	
Project Manager	307	Date: 1/26/2015
Deputy District Director, Planning	JAMOTA S	Date: 1/16/2015
Deputy District Director*, Design**	The Color	Date: 1 26 /21/5
Deputy District Director, Project Management	- Harry	Date:
PA&ED (Required for Capital Projects Only)		
Project Manager		Date:
Deputy District Director*, Environmental		Date:
Deputy District Director*, Design**		Date:
Deputy District Director, Project Management	The second secon	Date:
Prior to PS&E (Required for Capital Projects and	Maintenance Projects)	
Project Manager		Date:
Deputy District Director*, Design**		Date:
Deputy District Director*, Construction		Date:
Deputy District Director*, Right of Way		Date:
Deputy District Director*, Environmental	•	Date:
Deputy District Director, Project Management*	*	Date:
RE File Hand-Off (Recommended for Capital Pro	pjects and Major Maintenance Projects)	
Project Manager		Date:
Deputy District Director*, Design**		Date:
Deputy District Director*, Construction		Date:
Deputy District Director, Project Management*	*	Date:

^{*}or the respective Project Delivery Division Chief signatures in the North Region or Central Region

**or Deputy District Director, Maintenance signature for HM Projects designed by the District Maintenance Division

Project Risk Register as of 01/26/15

01/23/2015 01/23/2015 01/26/2015 08:25:00 01/26/2015 01/26/2015 01/26/2015 01/26/2015 13:56:00 01/23/2015 01/26/2015 01/26/2015 Last Comments Zoe Yun Zoe Yue Zoe Yue Zoe Yue Zne Yue Rluk Owner Rbk Interaction Secondary Risks Residual Risks Risk Triggers Militarion Option (Minimire Prob or Impace) Response Rationale (for Rating) Probable S Time Impact (Mos.) 0 (Mos.) Low Most High Thre (Months) S0(K) Probable Cost Empact (SK) Cont Impact (SK) Cont. Most Most High Cont/Time Score 1 (LOW) (wow) Impact Consequence (Cost/Time) Very Low Very Low Very Low Rlsk Impact fg. Fligh Rbsk Probability Within the project Linear limits.

cotating proposed has width in 10.
Uppanding the lass width to standard the would require reconfiguration of the readway. Linear/ Non-Linear Funding may not be Project approval to Lin
obtained from LA MTA delayed until
funding to secured
funding to secure
form another
notine. The state of the s Parceis contaminated Delay in RVW Livin hazardean malerials process that would may need to be coquired; in the following the construction casement project the construction casement. Public challenge to project may lead to project being concelled at revised Delay in approving the project and control of things design and exquire more right of way.

Delay in advertising the project Lenguity and complex (raffic illudy may be needed.
Alternatives may need to be revised. Impact Description TOTAL EXPECTED IMPACT Nonstandard design features may not be a apprived dering PAVED and PS&E phases Public may pose objection to the praject during Environmental document circulation b The peoject alternatives may ceuse significant impact to bruffic and increase delays due to road diet strategy and roundabout involved. R/W acquisition may require rendemantion Risk Statement features not approved nay exiel in nacquired R/W n roject construction may go higher Environmentally linesitive measure may be impacted Public may not support the project Right of Way acquinition may require mántosy shoulder width Project traffic impact may be adverse Mandatory Lane width (HDM Section 301.1 Local Agency supporty tot sitained Undistryed Title Critical Patia Impacted WBS RDS TRA DGN DGN NDQ DGN ₹ M EN 9715999162 31500 YUE, ZOE Risk Type 81052 ≘ Active 24013 Active 34017 Status Аспур Active EFIS ID DIST EA PM ď