North Coast Corridor

PUBLIC WORKS PLAN/TRANSPORTATION AND RESOURCE ENHANCEMENT PROGRAM

Final June 2014

As Amended March 2016

Appendix B

Visual Resources Documentation

APPENDIX B:

VISUAL RESOURCES DOCUMENTATION

This appendix contains the following supporting documentation on visual resources in the North Coast Corridor (NCC):

- **Photo Documentation:** Current photographs of various locations along the Interstate 5 (I-5) highway corridor. Table B-1 lists the view locations and the number of photographs that appear for each. Beginning on page 5, Figures B-1A through B-1G are key maps illustrating the locations of each view. The photographs themselves appear on pages 17-288, and are lettered sequentially based on their view number (e.g. Figure SD-01A, Figure SD-01B, etc.).
- **Proposed Locations of Intermediate Access Points (IAPs), Overhead Signs and Scanners:** Beginning on page 289, Figures B-2A through B-2I are maps of proposed locations for Express Lane IAPs, overhead signs and overhead scanners.
- **IAP Signage Criteria:** Beginning on page 299, the final section of this appendix contains descriptions, schematics and photos of proposed design features for corridor signs at IAP locations.

TABLE B-1: PHOTO DOCUMENTATION VIEW LOCATIONS

View No.	View Description	No. of Photos
City of San Diego: Los Peñasquitos Lagoon/Carmel Valley		
SD-01	Western Views from I-5 including the Pacific Ocean, Los Peñasquitos Lagoon and Natural Coastal Landforms	8
SD-02	Southbound View of Los Peñasquitos/Natural Landforms of Torrey Pines State Preserve	2
SD-03	Eastern Views from I-5 Including Los Peñasquitos Lagoon and Inland Natural Coastal Landforms	9
SD-04	Views from Public Trails Located within Carmel Valley, Including Proposed I-5 Improvements	14
SD-07	Eastern Looking Views from Carmel Valley Road (CVREP) Across Lagoon Toward I-5	3
City of San Diego: San Dieguito Lagoon		
SD-08	Western/Eastern Views from I-5 including the Pacific Ocean, San Dieguito Lagoon and Seaward and Inland Natural Coastal Landforms	14
SD-09	One Southbound View of San Dieguito Lagoon/Del Mar Bluffs/Racetrack	** See SD-08*
SD-11	Northern View from Racetrack View Drive (Caltrans Restoration Site)	3
City of San Diego: Local Coastal Program		
SD-12	Views from San Dieguito and Los Peñasquitos Lagoons that Include Proposed I-5 Improvements	14
SD-14	North Torrey Pines Road, Carmel Valley Road, and Sorrento Valley Road Vistas	9
City of Del Mar: San Dieguito Lagoon		
DM-01	Eastern Views from Jimmy Durante Boulevard Across Lagoon Toward I-5	2
DM-02	Western Views from Via de la Valle Across Lagoon Toward I-5	3

TABLE B-1: PHOTO DOCUMENTATION VIEW LOCATIONS (CONTINUED)

View No.	View Description	No. of Images
City of Solana Beach: San Dieguito Lagoon		
SB-01	Western/Eastern Views from I-5 Including the Pacific Ocean, San Dieguito Lagoon, and Coastal and Inland Natural Coastal Landforms	17
SB-02	Northern View from Public Trail Toward San Elijo Lagoon from Solana Hills Drive	9
City of Solana Beach: San Elijo Lagoon		
SB-03	Western/Eastern views from I-5 Including the Pacific Ocean, San Elijo Lagoon and Coastal and Inland Natural Coastal Landforms	17
City of Encinitas: San Elijo Lagoon		
EC-01	Western/Eastern views from I-5 Including the Pacific Ocean, San Elijo Lagoon and Coastal and Inland Natural Coastal Landforms	** See SB-03*
EC-02	Views from Public Trails Located within San Elijo Valley that Include Proposed I-5 Improvements	10
EC-03	Western/Eastern Views from Manchester Ave Across Lagoon Toward I-5	5
EC-04	Western/Northern Views from Existing Scenic Overlook on I-5	3
EC-05	Views from Encinitas Community Park	6
City of Encinitas: Uplands		
EC-06	Western Views from I-5 Including the Pacific Ocean (Santa Fe and Encinitas Interchanges)	6
EC-07	Western views of Pacific Ocean from Requeza Public Trail	5
EC-08	Western/Eastern Views from I-5 (Between Manchester/Birmingham and Leucadia/La Costa Exits) of Coastal and Inland Natural Coastal Landforms	13
City of Encinitas: Batiquitos Lagoon		
EC-09	Western/Eastern Views from I-5 Including the Pacific Ocean, Batiquitos Lagoon and Natural Coastal Landforms	12
EC-10	Northwestern Views from La Costa Avenue Across Lagoon Toward I-5	4
City of Encinitas: Local Coastal Program		
EC-11	San Elijo Lagoon (I-5/Manchester Avenue Intersections)	** See EC-03*
EC-12	Northeast/Northwest Corner of I-5 and La Costa Avenue	8
EC-14	Existing Vista Point on Southbound I-5 (north of Manchester Avenue)	2
City of Carlsbad: Batiquitos Lagoon		
CB-01	Western/Eastern Views from I-5 Including the Pacific Ocean, Batiquitos Lagoon and Coastal and Inland Natural Coastal Landforms	** See EC-09*
CB-02	Views from Public Trails Along Northern Lagoon Perimeter Include Proposed I-5 Improvements	11
CB-03	Eastern Views from Public View Point at the End of Navigator Circle Across Lagoon Toward I-5	4

TABLE B-1: PHOTO DOCUMENTATION VIEW LOCATIONS (CONTINUED)

View No.	View Description	No. of Images
City of Carlsbad: Agua Hedionda Lagoon		
CB-04	Western/Eastern Views from I-5 Including Agua Hedionda Lagoon and Coastal and Inland Natural Coastal Landforms	10
CB-05	Views from Public Trails Along Lagoon Perimeter that Include Proposed I-5 Improvements	8
CB-06	Views from Public Recreation Areas (YMCA facilities) in Central/East Basins that Include Proposed I-5 Improvements	** See CB-05*
CB-07	Northwestern Views from Cannon Road Across Lagoon/Open Space Toward I-5	5
City of Carlsbad: Buena Vista Lagoon		
CB-08	Western/Eastern Views from I-5 Including Buena Vista Lagoon and Coastal and Inland Natural Coastal Landforms	** See OC-01*
CB-09	Northern/Western/Eastern Views from Jefferson Street Across Lagoon Toward I-5	7
CB-10	Eastern Views from State Street/Carlsbad Boulevard Across Lagoon Toward I-5	3
OC-04	Eastern Views from Public Trail System Extending Along Lagoon Perimeter East of Audubon Center Toward I-5	5
City of Oceanside: San Luis Rey River Valley		
OC-05	Western/Eastern Views from I-5 Including the Pacific Ocean, San Luis Rey River Valley, and Coastal and Inland Natural Coastal Landforms	7
OC-06	Northern/Western Views from SR 76 Across San Luis Rey River Valley Toward I-5	1
OC-07	Views from Public Trails (San Luis Rey River Trail) within San Luis Rey River Valley that Include Proposed I-5 Improvements	8
OC-08	Eastern Views from Pacific Street Across River Valley Toward I-5	2
City of Oceanside: Local Coastal Program		
OC-09	San Luis Rey River (Park & Ride or at Hiking/Biking Trail)	** See OC-02*

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DATA SOURCES: Caltrans, California Coastal Commission, Local Jurisdictions, SanGIS, SANDAG, Imagery: DigitalGlobe March 2008

The Coastal Zone boundary, jurisdiction and Local Coastal Program data in this map are for planning and engineering study purposes only. Data are derived from multiple sources. The digital Coastal Zone boundary, jurisdiction and Local Coastal Program data in this map have not been adopted by the Coastal Commission, and do not supersede the official versions certified by the Coastal Commission as may be amended from time to time. Disclaimer: The State of California makes no representations or warranties regarding the accuracy or completeness of the files or the data from which they were derived. The State shall not be liable under any circumstances for any direct, indirect, special, incidental or consequential damages with respect to any claim by any user or any third party on account of or arising from the use of these Coastal Zone boundary, jurisdiction and Local Coastal Program files or the data from which they were derived. Because the Coastal Zone boundary, jurisdiction and Local Coastal Program data files are merely representational, they and the data from which they were derived are not binding and may be revised at any time.

FIGURE B-1A

Key Map of Visual Simulations and Photo Documentation (City of Del Mar / San Diego)

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NORTH

Photo Documentation Locations

Photo Simulation Locations

Permanent Impact Area

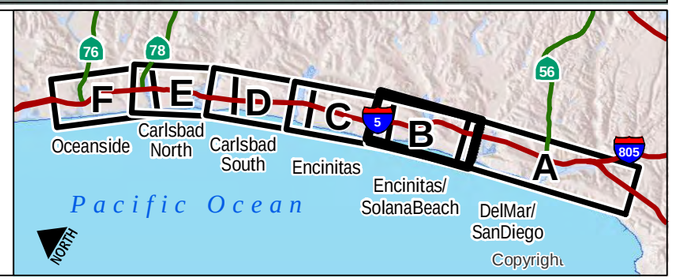
Temporary Impact Area

LOSSAN Proposed Track

LOSSAN Existing Track

Stream/River

0 500 1,000 2,000 Feet



DATA SOURCES: Caltrans, California Coastal Commission, Local Jurisdictions, SanGIS, SANDAG, Imagery: DigitalGlobe March 2008

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FIGURE B-1B

Key Map of Visual Simulations and Photo Documentation (CIty of Encinitas/Solana Beach)

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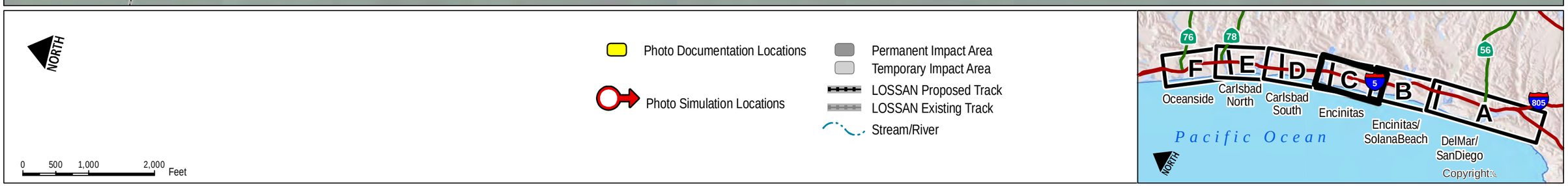

DATA SOURCES: Caltrans, California Coastal Commission, Local Jurisdictions, SanGIS, SANDAG, Imagery: DigitalGlobe March 2008

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FIGURE B-1C

Key Map of Visual Simulations and Photo Documentation (City of Encinitas)

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NORTH

Photo Documentation Locations

Photo Simulation Locations

Permanent Impact Area

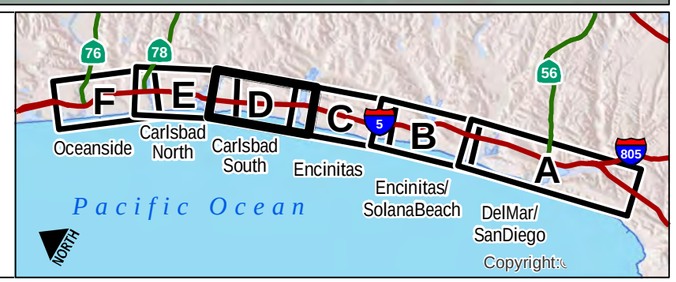
Temporary Impact Area

LOSSAN Proposed Track

LOSSAN Existing Track

Stream/River

0 500 1,000 2,000 Feet



DATA SOURCES: Caltrans, California Coastal Commission, Local Jurisdictions, SanGIS, SANDAG, Imagery: DigitalGlobe March 2008

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FIGURE B-1D

Key Map of Visual Simulations and Photo Documentation (City of Carlsbad [South])

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NORTH

Photo Documentation Locations

Photo Simulation Locations

Permanent Impact Area

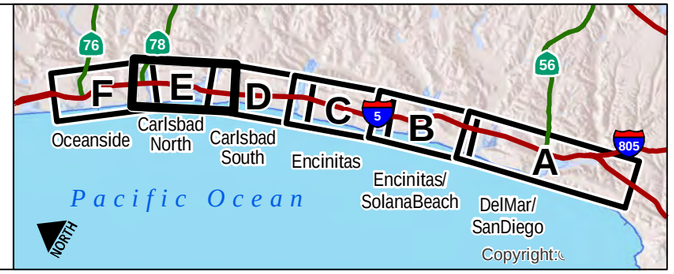
Temporary Impact Area

LOSSAN Proposed Track

LOSSAN Existing Track

Stream/River

0 500 1,000 2,000 Feet



DATA SOURCES: Caltrans, California Coastal Commission, Local Jurisdictions, SanGIS, SANDAG, Imagery: DigitalGlobe March 2008

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FIGURE B-1E

Key Map of Visual Simulations and Photo Documentation (City of Carlsbad [North])

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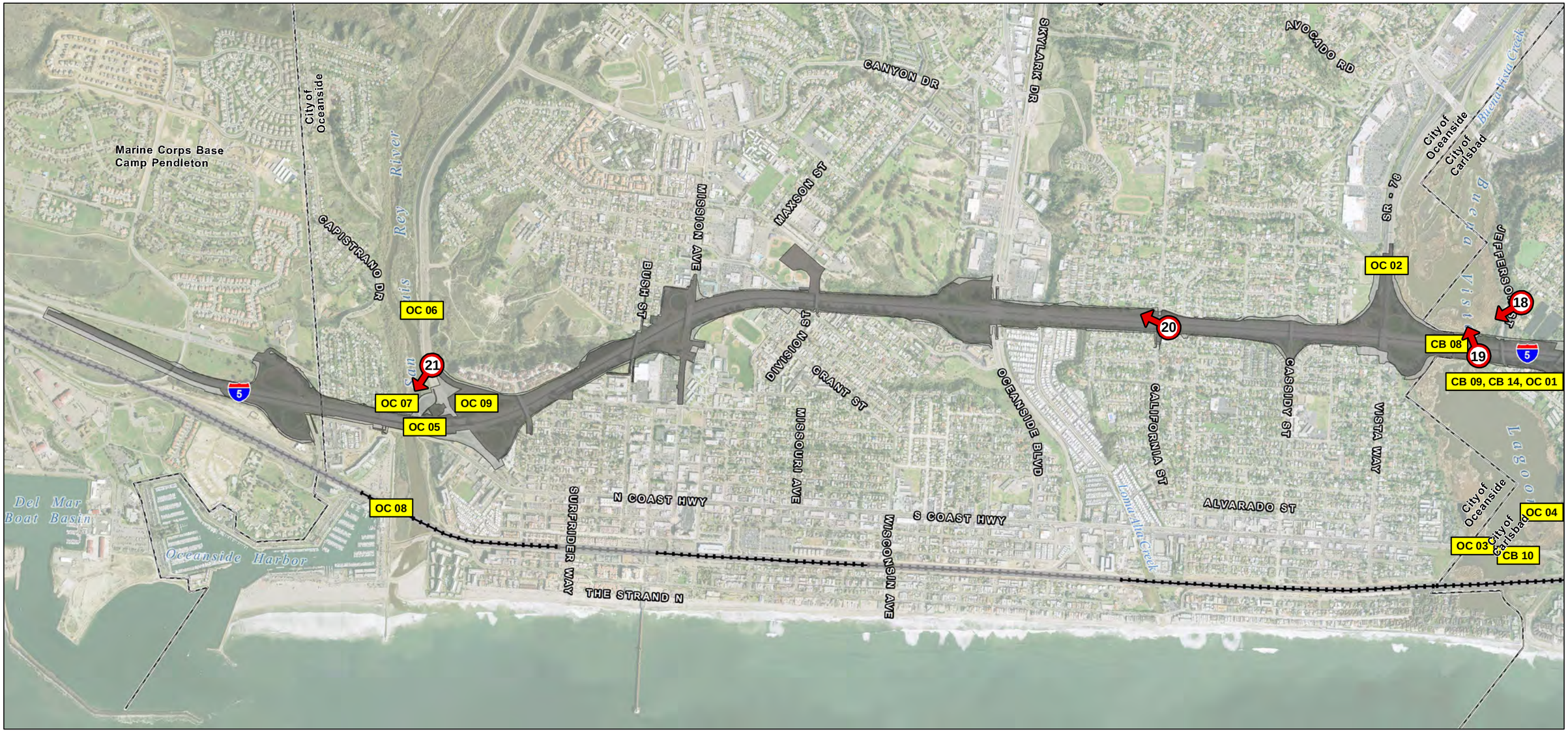


NORTH

Photo Documentation Locations

Photo Simulation Locations

Permanent Impact Area

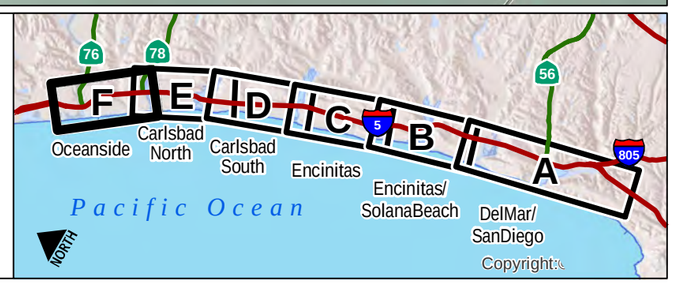
Temporary Impact Area

LOSSAN Proposed Track

LOSSAN Existing Track

Stream/River

0 500 1,000 2,000 Feet



DATA SOURCES: Caltrans, California Coastal Commission, Local Jurisdictions, SanGIS, SANDAG, Imagery: DigitalGlobe March 2008

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FIGURE B-1F

Key Map of Visual Simulations and Photo Documentation (City of Oceanside)

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DATA SOURCES: Google, Caltrans

Figure SD-01A

Western Views from I-5 including the Pacific Ocean, Los Penasquitos Lagoon and Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure SD-01B

Western Views from I-5 including the Pacific Ocean, Los Penasquitos Lagoon and Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure SD-01C

Western Views from I-5 including the Pacific Ocean, Los Penasquitos Lagoon and Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure SD-01D

Western Views from I-5 including the Pacific Ocean, Los Penasquitos Lagoon and Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure SD-01E

Western Views from I-5 including the Pacific Ocean, Los Penasquitos Lagoon and Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure SD-01F

Western Views from I-5 including the Pacific Ocean, Los Penasquitos Lagoon and Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure SD-01G

Western Views from I-5 including the Pacific Ocean, Los Penasquitos Lagoon and Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure SD-01H

Western Views from I-5 including the Pacific Ocean, Los Penasquitos Lagoon and Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure SD-02A

Southbound View of Los Penasquitos/Natural Landforms of Torrey Pines State Preserve

DATA SOURCES: Google, Caltrans

Figure SD-02B

Southbound View of Los Penasquitos/Natural Landforms of Torrey Pines State Preserve

DATA SOURCES: Google, Caltrans

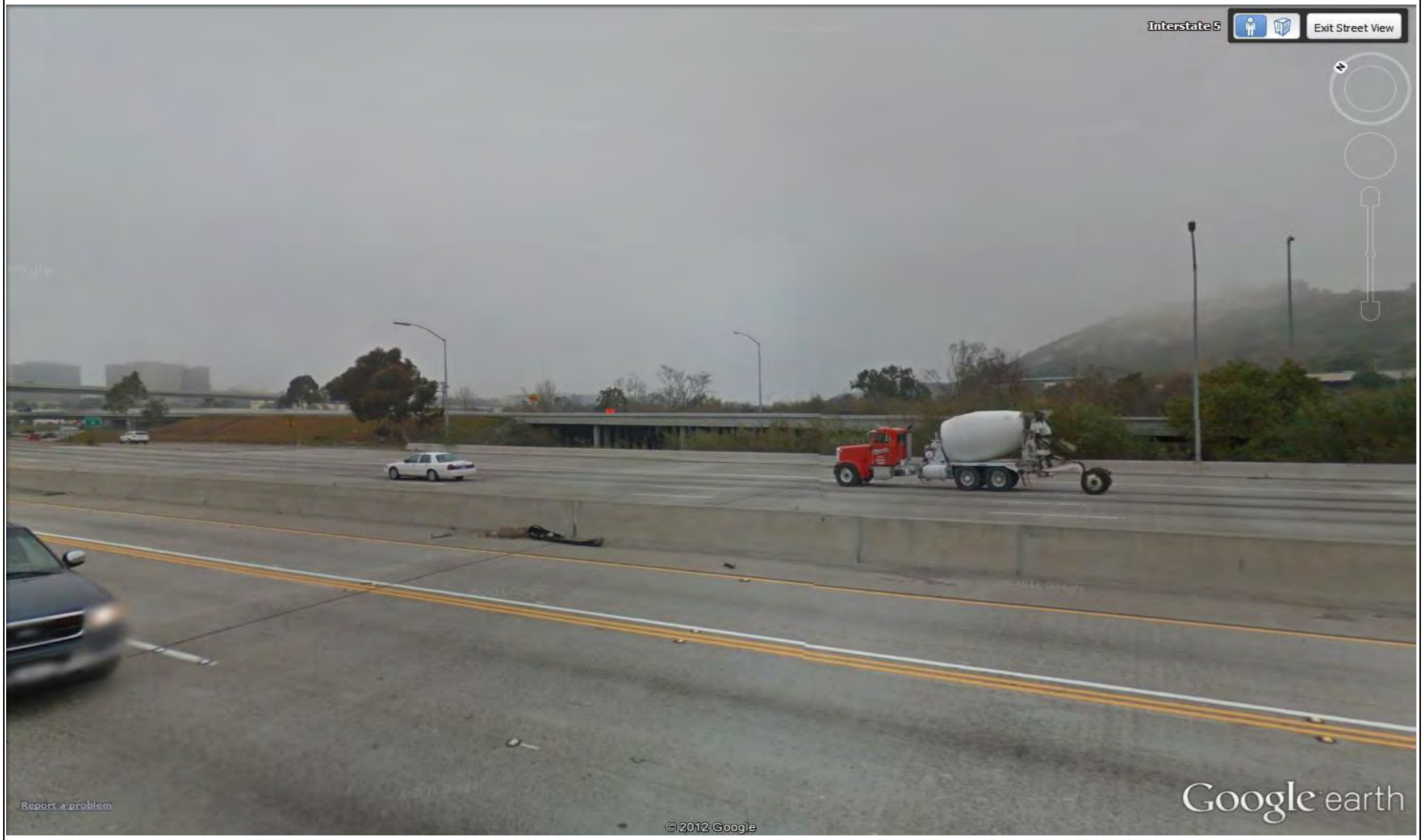
Figure SD-03A

Eastern Views from I-5 Including Los Penasquitos Lagoon and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure SD-03B

Eastern Views from I-5 Including Los Penasquitos Lagoon and Inland Natural Coastal Landforms



DATA SOURCES: Google, Caltrans

Figure SD-03C

Eastern Views from I-5 Including Los Penasquitos Lagoon and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure SD-03D

Eastern Views from I-5 Including Los Penasquitos Lagoon and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure SD-03E

Eastern Views from I-5 Including Los Penasquitos Lagoon and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure SD-03F

Eastern Views from I-5 Including Los Penasquitos Lagoon and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure SD-03G

Eastern Views from I-5 Including Los Penasquitos Lagoon and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure SD-03H

Eastern Views from I-5 Including Los Penasquitos Lagoon and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure SD-03I

Eastern Views from I-5 Including Los Penasquitos Lagoon and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure SD-04A

Views from Public Trails Located within Carmel Valley, Including Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure SD-04B

Views from Public Trails Located within Carmel Valley, Including Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure SD-04C

Views from Public Trails Located within Carmel Valley, Including Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure SD-04D

Views from Public Trails Located within Carmel Valley, Including Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure SD-04E

Views from Public Trails Located within Carmel Valley, Including Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

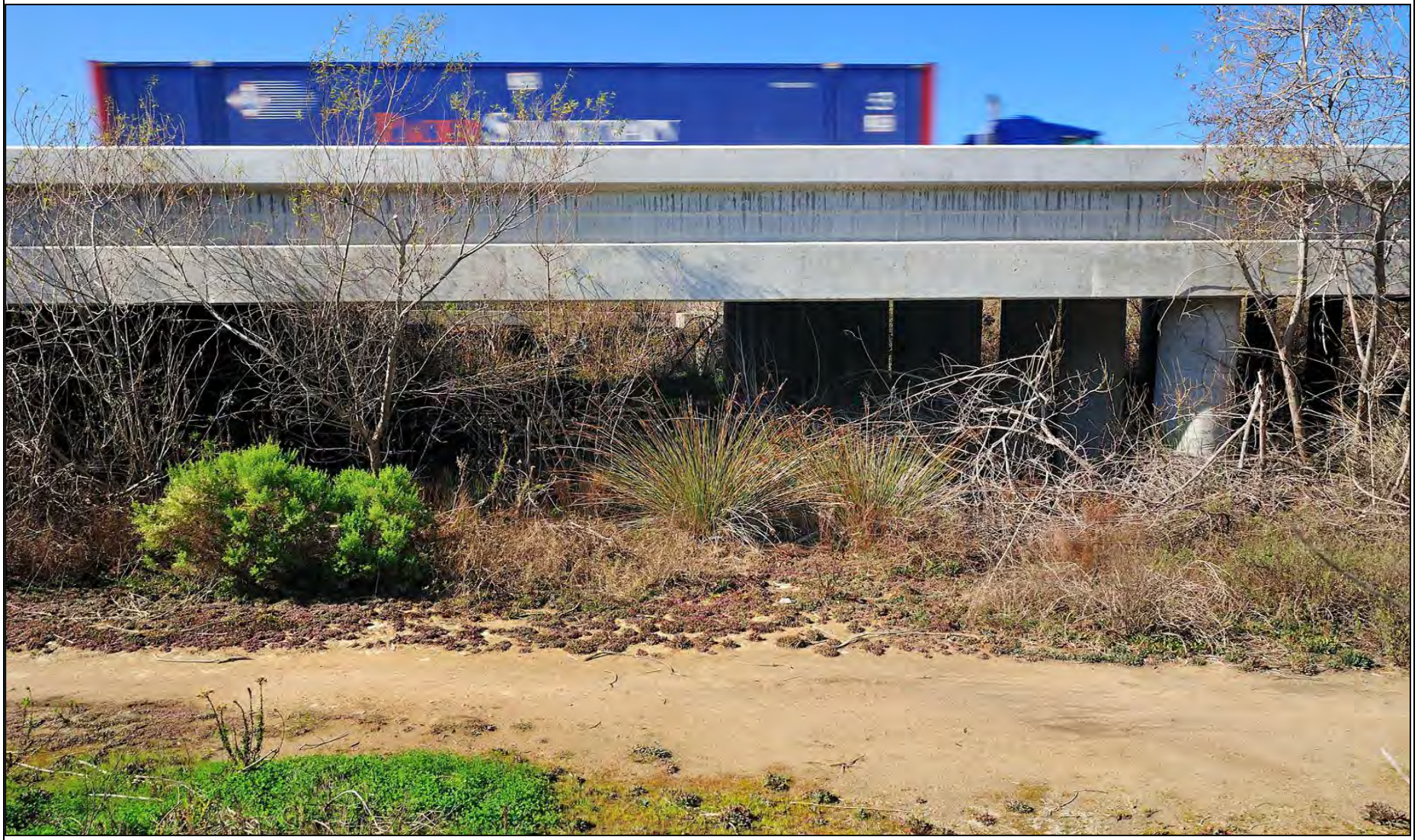
Figure SD-04F

Views from Public Trails Located within Carmel Valley, Including Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure SD-04G

Views from Public Trails Located within Carmel Valley, Including Proposed I-5 Improvements



DATA SOURCES: Google, Caltrans

Figure SD-04H

Views from Public Trails Located within Carmel Valley, Including Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

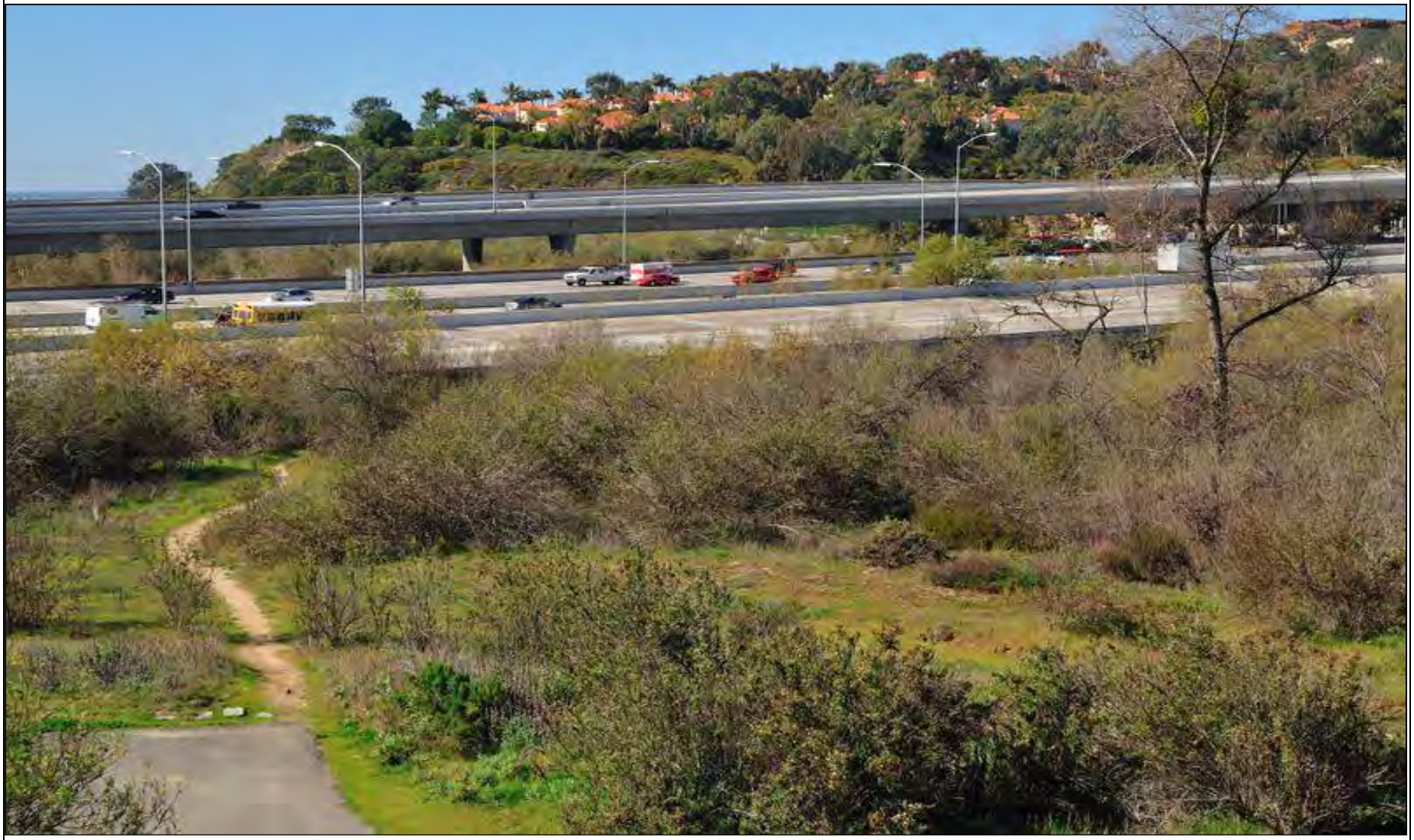
Figure SD-04I

Views from Public Trails Located within Carmel Valley, Including Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure SD-04J

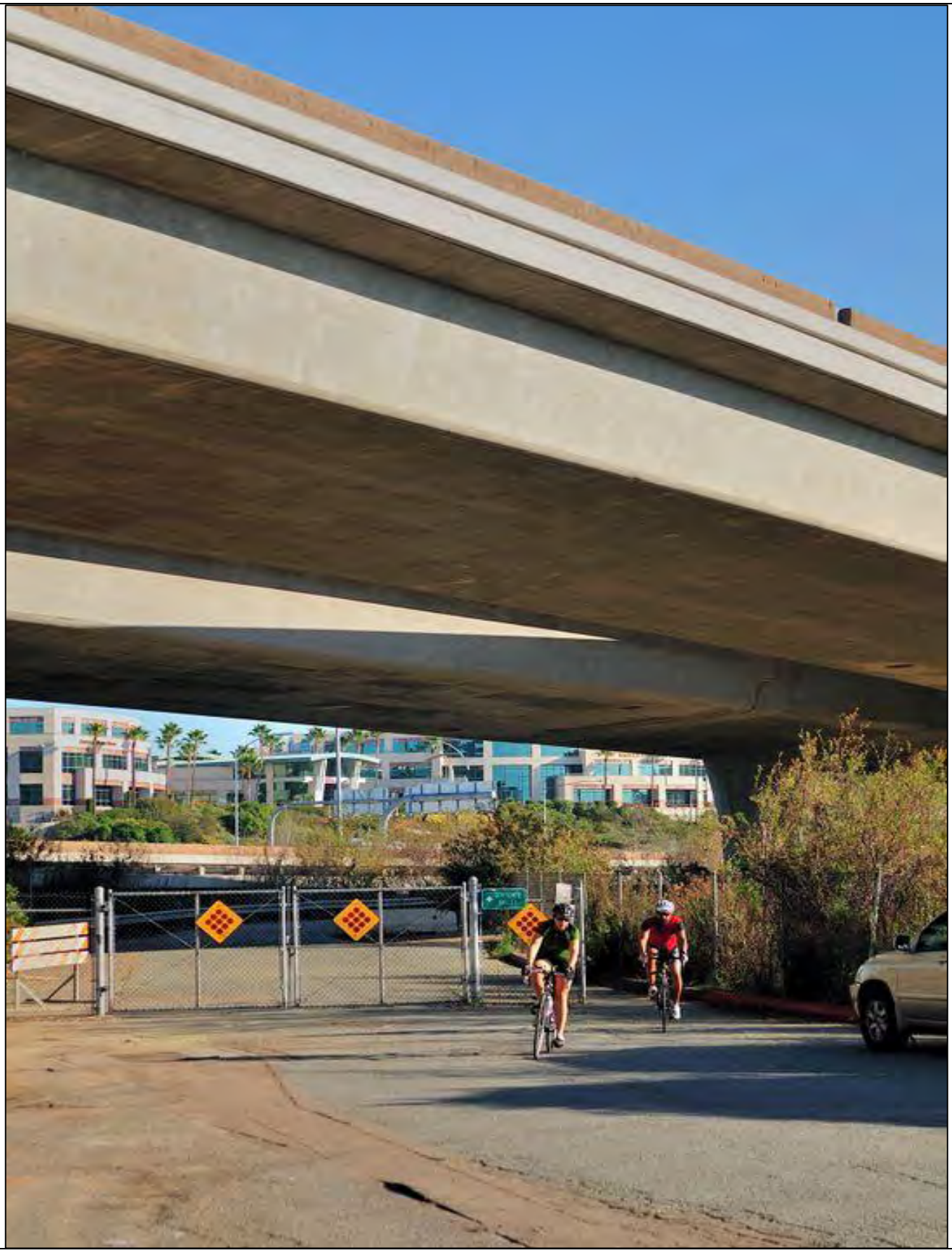
Views from Public Trails Located within Carmel Valley, Including Proposed I-5 Improvements



DATA SOURCES: Google, Caltrans

Figure SD-04K

Views from Public Trails Located within Carmel Valley, Including Proposed I-5 Improvements



DATA SOURCES: Google, Caltrans

Figure SD-04L

Views from Public Trails Located within Carmel Valley, Including Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure SD-04M

Views from Public Trails Located within Carmel Valley, Including Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure SD-04N

Views from Public Trails Located within Carmel Valley, Including Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure SD-07A

Eastern Looking Views from Carmel Valley Road (CVREP) Across Lagoon Toward I-5

DATA SOURCES: Google, Caltrans

Figure SD-07B

Eastern Looking Views from Carmel Valley Road (CVREP) Across Lagoon Toward I-5

DATA SOURCES: Google, Caltrans

Figure SD-07C

Eastern Looking Views from Carmel Valley Road (CVREP) Across Lagoon Toward I-5

DATA SOURCES: Google, Caltrans

Figure SD-08A

Western/Eastern Views from I-5 including the Pacific Ocean, San Dieguito Lagoon and Seaward and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure SD-08B

Western/Eastern Views from I-5 including the Pacific Ocean, San Dieguito Lagoon and Seaward and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure SD-08C

Western/Eastern Views from I-5 including the Pacific Ocean, San Dieguito Lagoon and Seaward and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure SD-08D

Western/Eastern Views from I-5 including the Pacific Ocean, San Dieguito Lagoon and Seaward and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure SD-08E

Western/Eastern Views from I-5 including the Pacific Ocean, San Dieguito Lagoon and Seaward and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure SD-08F

Western/Eastern Views from I-5 including the Pacific Ocean, San Dieguito Lagoon and Seaward and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure SD-08G

Western/Eastern Views from I-5 including the Pacific Ocean, San Dieguito Lagoon and Seaward and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure SD-08H

Western/Eastern Views from I-5 including the Pacific Ocean, San Dieguito Lagoon and Seaward and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure SD-08I

Western/Eastern Views from I-5 including the Pacific Ocean, San Dieguito Lagoon and Seaward and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure SD-08J

Western/Eastern Views from I-5 including the Pacific Ocean, San Dieguito Lagoon and Seaward and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure SD-08K

Western/Eastern Views from I-5 including the Pacific Ocean, San Dieguito Lagoon and Seaward and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure SD-08L

Western/Eastern Views from I-5 including the Pacific Ocean, San Dieguito Lagoon and Seaward and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure SD-08M

Western/Eastern Views from I-5 including the Pacific Ocean, San Dieguito Lagoon and Seaward and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure SD-08N

Western/Eastern Views from I-5 including the Pacific Ocean, San Dieguito Lagoon and Seaward and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure SD-11A

Northern View from Racetrack View Drive (Caltrans Restoration Site)

DATA SOURCES: Google, Caltrans

Figure SD-11B

Northern View from Racetrack View Drive (Caltrans Restoration Site)

DATA SOURCES: Google, Caltrans

Figure SD-11C

Northern View from Racetrack View Drive (Caltrans Restoration Site)

DATA SOURCES: Google, Caltrans

Figure SD-12A

Views from San Dieguito and Los Penasquitos Lagoons that Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure SD-12B

Views from San Dieguito and Los Penasquitos Lagoons that Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure SD-12C

Views from San Dieguito and Los Penasquitos Lagoons that Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure SD-12D

Views from San Dieguito and Los Penasquitos Lagoons that Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure SD-12E

Views from San Dieguito and Los Penasquitos Lagoons that Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure SD-12F

Views from San Dieguito and Los Penasquitos Lagoons that Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure SD-12G

Views from San Dieguito and Los Penasquitos Lagoons that Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure SD-12H

Views from San Dieguito and Los Penasquitos Lagoons that Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure SD-12I

Views from San Dieguito and Los Penasquitos Lagoons that Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure SD-12J

Views from San Dieguito and Los Penasquitos Lagoons that Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure SD-12K

Views from San Dieguito and Los Penasquitos Lagoons that Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure SD-12L

Views from San Dieguito and Los Penasquitos Lagoons that Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure SD-12M

Views from San Dieguito and Los Penasquitos Lagoons that Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure SD-12N

Views from San Dieguito and Los Penasquitos Lagoons that Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure SD-14A

North Torrey Pines Road, Carmel Valley Road, and Sorrento Valley Road Vistas

DATA SOURCES: Google, Caltrans

Figure SD-14B

North Torrey Pines Road, Carmel Valley Road, and Sorrento Valley Road Vistas

DATA SOURCES: Google, Caltrans

Figure SD-14C

North Torrey Pines Road, Carmel Valley Road, and Sorrento Valley Road Vistas

DATA SOURCES: Google, Caltrans

Figure SD-14D

North Torrey Pines Road, Carmel Valley Road, and Sorrento Valley Road Vistas

DATA SOURCES: Google, Caltrans

Figure SD-14E

North Torrey Pines Road, Carmel Valley Road, and Sorrento Valley Road Vistas

DATA SOURCES: Google, Caltrans

Figure SD-14F

North Torrey Pines Road, Carmel Valley Road, and Sorrento Valley Road Vistas

DATA SOURCES: Google, Caltrans

Figure SD-14G

North Torrey Pines Road, Carmel Valley Road, and Sorrento Valley Road Vistas

DATA SOURCES: Google, Caltrans

Figure SD-14H

North Torrey Pines Road, Carmel Valley Road, and Sorrento Valley Road Vistas

DATA SOURCES: Google, Caltrans

Figure SD-14l

North Torrey Pines Road, Carmel Valley Road, and Sorrento Valley Road Vistas

DATA SOURCES: Google, Caltrans

Figure DM-01A

Eastern Views from Jimmy Durante Boulevard Across Lagoon Toward I-5

DATA SOURCES: Google, Caltrans

Figure DM-01B

Eastern Views from Jimmy Durante Boulevard Across Lagoon Toward I-5

DATA SOURCES: Google, Caltrans

Figure DM-02A

Western Views from Via de la Valle Across Lagoon Toward I-5

DATA SOURCES: Google, Caltrans

Figure DM-02B

Western Views from Via de la Valle Across Lagoon Toward I-5

DATA SOURCES: Google, Caltrans

Figure DM-02C

Western Views from Via de la Valle Across Lagoon Toward I-5

DATA SOURCES: Google, Caltrans

Figure SB-02A

Northern View from Public Trail Toward San Elijo Lagoon from Solana Hills Drive

DATA SOURCES: Google, Caltrans

Figure SB-02B

Northern View from Public Trail Toward San Elijo Lagoon from Solana Hills Drive

DATA SOURCES: Google, Caltrans

Figure SB-02C

Northern View from Public Trail Toward San Elijo Lagoon from Solana Hills Drive

DATA SOURCES: Google, Caltrans

Figure SB-02D

Northern View from Public Trail Toward San Elijo Lagoon from Solana Hills Drive

DATA SOURCES: Google, Caltrans

Figure SB-02E

Northern View from Public Trail Toward San Elijo Lagoon from Solana Hills Drive

DATA SOURCES: Google, Caltrans

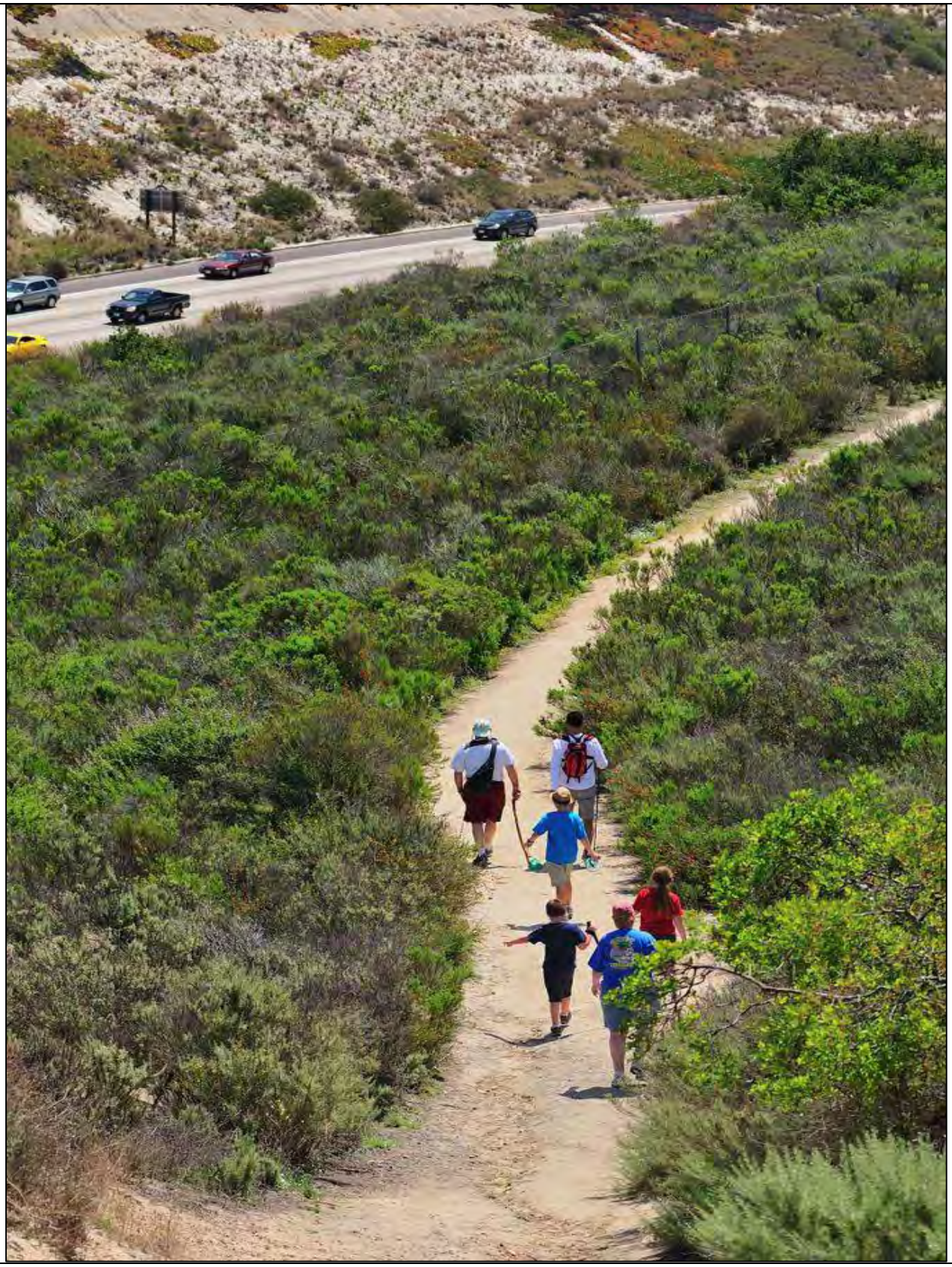
Figure SB-02F

Northern View from Public Trail Toward San Elijo Lagoon from Solana Hills Drive

DATA SOURCES: Google, Caltrans

Figure SB-02G

Northern View from Public Trail Toward San Elijo Lagoon from Solana Hills Drive



DATA SOURCES: Google, Caltrans

Figure SB-02H

Northern View from Public Trail Toward San Elijo Lagoon from Solana Hills Drive

DATA SOURCES: Google, Caltrans

Figure SB-02I

Northern View from Public Trail Toward San Elijo Lagoon from Solana Hills Drive

DATA SOURCES: Google, Caltrans

Figure SB-03A

Western/Eastern views from I-5 Including the Pacific Ocean, San Elijo Lagoon and Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure SB-03B

Western/Eastern views from I-5 Including the Pacific Ocean, San Elijo Lagoon and Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure SB-03C

Western/Eastern views from I-5 Including the Pacific Ocean, San Elijo Lagoon and Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure SB-03D

Western/Eastern views from I-5 Including the Pacific Ocean, San Elijo Lagoon and Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure SB-03E

Western/Eastern views from I-5 Including the Pacific Ocean, San Elijo Lagoon and Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure SB-03F

Western/Eastern views from I-5 Including the Pacific Ocean, San Elijo Lagoon and Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure SB-03G

Western/Eastern views from I-5 Including the Pacific Ocean, San Elijo Lagoon and Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure SB-03H

Western/Eastern views from I-5 Including the Pacific Ocean, San Elijo Lagoon and Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure SB-03I

Western/Eastern views from I-5 Including the Pacific Ocean, San Elijo Lagoon and Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure SB-03J

Western/Eastern views from I-5 Including the Pacific Ocean, San Elijo Lagoon and Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure SB-03K

Western/Eastern views from I-5 Including the Pacific Ocean, San Elijo Lagoon and Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure SB-03L

Western/Eastern views from I-5 Including the Pacific Ocean, San Elijo Lagoon and Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure SB-03M

Western/Eastern views from I-5 Including the Pacific Ocean, San Elijo Lagoon and Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure SB-03N

Western/Eastern views from I-5 Including the Pacific Ocean, San Elijo Lagoon and Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure SB-03O

Western/Eastern views from I-5 Including the Pacific Ocean, San Elijo Lagoon and Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure SB-03P

Western/Eastern views from I-5 Including the Pacific Ocean, San Elijo Lagoon and Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure SB-03Q

Western/Eastern views from I-5 Including the Pacific Ocean, San Elijo Lagoon and Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure EC-02A

Views from Public Trails Located within San Elijo Valley that Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure EC-02B

Views from Public Trails Located within San Elijo Valley that Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure EC-02C

Views from Public Trails Located within San Elijo Valley that Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure EC-02D

Views from Public Trails Located within San Elijo Valley that Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure EC-02E

Views from Public Trails Located within San Elijo Valley that Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure EC-02F

Views from Public Trails Located within San Elijo Valley that Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure EC-02G

Views from Public Trails Located within San Elijo Valley that Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure EC-02H

Views from Public Trails Located within San Elijo Valley that Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure EC-02I

Views from Public Trails Located within San Elijo Valley that Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure EC-02J

Views from Public Trails Located within San Elijo Valley that Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure EC-03A

Western/Eastern Views from Manchester Road Across Lagoon Toward I-5

DATA SOURCES: Google, Caltrans

Figure EC-03B

Western/Eastern Views from Manchester Road Across Lagoon Toward I-5

DATA SOURCES: Google, Caltrans

Figure EC-03C

Western/Eastern Views from Manchester Road Across Lagoon Toward I-5

DATA SOURCES: Google, Caltrans

Figure EC-03D

Western/Eastern Views from Manchester Road Across Lagoon Toward I-5

DATA SOURCES: Google, Caltrans

Figure EC-03E

Western/Eastern Views from Manchester Road Across Lagoon Toward I-5

DATA SOURCES: Google, Caltrans

Figure EC-04A

Western/Northern Views from Existing Scenic Overlook on I-5

DATA SOURCES: Google, Caltrans

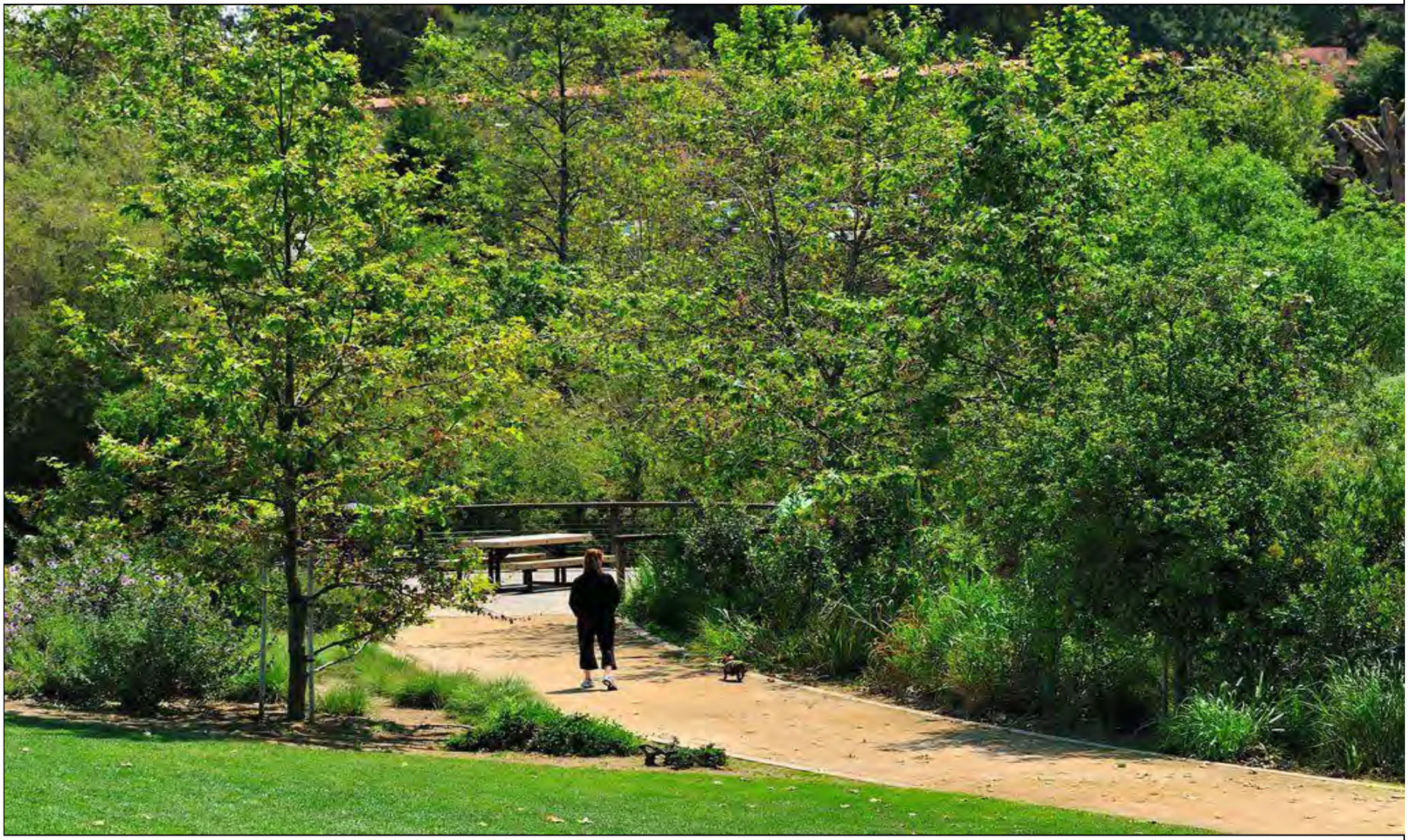
Figure EC-04B

Western/Northern Views from Existing Scenic Overlook on I-5

DATA SOURCES: Google, Caltrans

Figure EC-04C

Western/Northern Views from Existing Scenic Overlook on I-5



DATA SOURCES: Google, Caltrans

Figure EC-05A

Views from Encinitas Community Park

DATA SOURCES: Google, Caltrans

Figure EC-05B

Views from Encinitas Community Park

DATA SOURCES: Google, Caltrans

Figure EC-05C

Views from Encinitas Community Park

DATA SOURCES: Google, Caltrans

Figure EC-05D

Views from Encinitas Community Park

DATA SOURCES: Google, Caltrans

Figure EC-05E

Views from Encinitas Community Park

DATA SOURCES: Google, Caltrans

Figure EC-05F

Views from Encinitas Community Park

DATA SOURCES: Google, Caltrans

Figure EC-06A

Western Views from I-5 Including the Pacific Ocean (Santa Fe and Encinitas Interchanges)

DATA SOURCES: Google, Caltrans

Figure EC-06B

Western Views from I-5 Including the Pacific Ocean (Santa Fe and Encinitas Interchanges)

DATA SOURCES: Google, Caltrans

Figure EC-06C

Western Views from I-5 Including the Pacific Ocean (Santa Fe and Encinitas Interchanges)

DATA SOURCES: Google, Caltrans

Figure EC-06D

Western Views from I-5 Including the Pacific Ocean (Santa Fe and Encinitas Interchanges)

DATA SOURCES: Google, Caltrans

Figure EC-06E

Western Views from I-5 Including the Pacific Ocean (Santa Fe and Encinitas Interchanges)

DATA SOURCES: Google, Caltrans

Figure EC-06F

Western Views from I-5 Including the Pacific Ocean (Santa Fe and Encinitas Interchanges)

DATA SOURCES: Google, Caltrans

Figure EC-08A

Western/Eastern Views from I-5 (Between Manchester/Birmingham and Leucadia/La Costa Exits) of Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure EC-08B

Western/Eastern Views from I-5 (Between Manchester/Birmingham and Leucadia/La Costa Exits) of Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure EC-08C

Western/Eastern Views from I-5 (Between Manchester/Birmingham and Leucadia/La Costa Exits) of Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure EC-08D

Western/Eastern Views from I-5 (Between Manchester/Birmingham and Leucadia/La Costa Exits) of Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure EC-08E

Western/Eastern Views from I-5 (Between Manchester/Birmingham and Leucadia/La Costa Exits) of Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure EC-08A

Western/Eastern Views from I-5 (Between Manchester/Birmingham and Leucadia/La Costa Exits) of Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure EC-08B

Western/Eastern Views from I-5 (Between Manchester/Birmingham and Leucadia/La Costa Exits) of Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure EC-08C

Western/Eastern Views from I-5 (Between Manchester/Birmingham and Leucadia/La Costa Exits) of Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure EC-08D

Western/Eastern Views from I-5 (Between Manchester/Birmingham and Leucadia/La Costa Exits) of Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure EC-08E

Western/Eastern Views from I-5 (Between Manchester/Birmingham and Leucadia/La Costa Exits) of Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure EC-08F

Western/Eastern Views from I-5 (Between Manchester/Birmingham and Leucadia/La Costa Exits) of Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure EC-08G

Western/Eastern Views from I-5 (Between Manchester/Birmingham and Leucadia/La Costa Exits) of Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure EC-08H

Western/Eastern Views from I-5 (Between Manchester/Birmingham and Leucadia/La Costa Exits) of Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure EC-08l

Western/Eastern Views from I-5 (Between Manchester/Birmingham and Leucadia/La Costa Exits) of Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure EC-08J

Western/Eastern Views from I-5 (Between Manchester/Birmingham and Leucadia/La Costa Exits) of Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure EC-08K

Western/Eastern Views from I-5 (Between Manchester/Birmingham and Leucadia/La Costa Exits) of Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure EC-08L

Western/Eastern Views from I-5 (Between Manchester/Birmingham and Leucadia/La Costa Exits) of Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure EC-08M

Western/Eastern Views from I-5 (Between Manchester/Birmingham and Leucadia/La Costa Exits) of Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure EC-09A

Western/Eastern Views from I-5 Including the Pacific Ocean, Batiquitos Lagoon and Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure EC-09B

Western/Eastern Views from I-5 Including the Pacific Ocean, Batiquitos Lagoon and Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure EC-09C

Western/Eastern Views from I-5 Including the Pacific Ocean, Batiquitos Lagoon and Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure EC-09D

Western/Eastern Views from I-5 Including the Pacific Ocean, Batiquitos Lagoon and Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure EC-09E

Western/Eastern Views from I-5 Including the Pacific Ocean, Batiquitos Lagoon and Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure EC-09F

Western/Eastern Views from I-5 Including the Pacific Ocean, Batiquitos Lagoon and Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure EC-09G

Western/Eastern Views from I-5 Including the Pacific Ocean, Batiquitos Lagoon and Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure EC-09H

Western/Eastern Views from I-5 Including the Pacific Ocean, Batiquitos Lagoon and Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure EC-09I

Western/Eastern Views from I-5 Including the Pacific Ocean, Batiquitos Lagoon and Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure EC-09J

Western/Eastern Views from I-5 Including the Pacific Ocean, Batiquitos Lagoon and Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure EC-09K

Western/Eastern Views from I-5 Including the Pacific Ocean, Batiquitos Lagoon and Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure EC-09L

Western/Eastern Views from I-5 Including the Pacific Ocean, Batiquitos Lagoon and Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure EC-10A

Northwestern Views from La Costa Avenue Across Lagoon Toward I-5

DATA SOURCES: Google, Caltrans

Figure EC-10B

Northwestern Views from La Costa Avenue Across Lagoon Toward I-5

DATA SOURCES: Google, Caltrans

Figure EC-10C

Northwestern Views from La Costa Avenue Across Lagoon Toward I-5

DATA SOURCES: Google, Caltrans

Figure EC-10D

Northwestern Views from La Costa Avenue Across Lagoon Toward I-5

DATA SOURCES: Google, Caltrans

Figure EC-12A

Northeast/Northwest Corner of I-5 and La Costa Avenue

DATA SOURCES: Google, Caltrans

Figure EC-12B

Northeast/Northwest Corner of I-5 and La Costa Avenue

DATA SOURCES: Google, Caltrans

Figure EC-12C

Northeast/Northwest Corner of I-5 and La Costa Avenue

DATA SOURCES: Google, Caltrans

Figure EC-12D

Northeast/Northwest Corner of I-5 and La Costa Avenue

DATA SOURCES: Google, Caltrans

Figure EC-12E

Northeast/Northwest Corner of I-5 and La Costa Avenue

DATA SOURCES: Google, Caltrans

Figure EC-12F

Northeast/Northwest Corner of I-5 and La Costa Avenue

DATA SOURCES: Google, Caltrans

Figure EC-12G

Northeast/Northwest Corner of I-5 and La Costa Avenue

DATA SOURCES: Google, Caltrans

Figure EC-12H

Northeast/Northwest Corner of I-5 and La Costa Avenue

DATA SOURCES: Google, Caltrans

Figure EC-14A

Existing Vista Point on Southbound I-5 (north of Manchester Avenue)

DATA SOURCES: Google, Caltrans

Figure EC-14B

Existing Vista Point on Southbound I-5 (north of Manchester Avenue)

DATA SOURCES: Google, Caltrans

Figure CB-02A

Views from Public Trails Along Northern Lagoon Perimeter Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure CB-02B

Views from Public Trails Along Northern Lagoon Perimeter Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure CB-02C

Views from Public Trails Along Northern Lagoon Perimeter Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure CB-02D

Views from Public Trails Along Northern Lagoon Perimeter Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure CB-02E

Views from Public Trails Along Northern Lagoon Perimeter Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure CB-02F

Views from Public Trails Along Northern Lagoon Perimeter Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure CB-02G

Views from Public Trails Along Northern Lagoon Perimeter Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure CB-02H

Views from Public Trails Along Northern Lagoon Perimeter Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

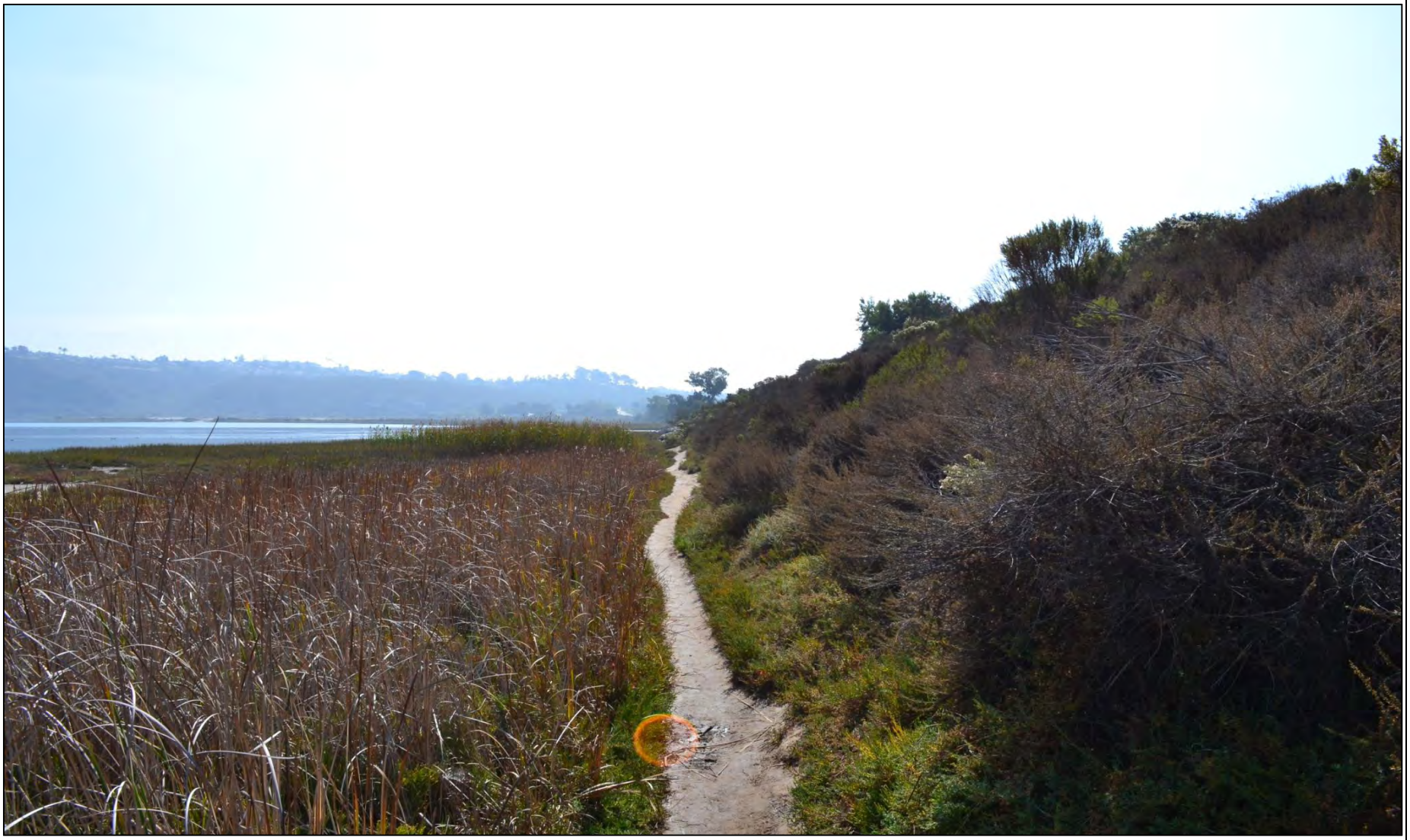
Figure CB-02I

Views from Public Trails Along Northern Lagoon Perimeter Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure CB-02J

Views from Public Trails Along Northern Lagoon Perimeter Include Proposed I-5 Improvements



DATA SOURCES: Google, Caltrans

Figure CB-02K

Views from Public Trails Along Northern Lagoon Perimeter Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure CB-03A

Eastern Views from Public View Point at the End of Navigator Circle Across Lagoon Toward I-5

DATA SOURCES: Google, Caltrans

Figure CB-03B

Eastern Views from Public View Point at the End of Navigator Circle Across Lagoon Toward I-5

DATA SOURCES: Google, Caltrans

Figure CB-03C

Eastern Views from Public View Point at the End of Navigator Circle Across Lagoon Toward I-5

DATA SOURCES: Google, Caltrans

Figure CB-03D

Eastern Views from Public View Point at the End of Navigator Circle Across Lagoon Toward I-5

DATA SOURCES: Google, Caltrans

Figure CB-04A

Western/Eastern Views from I-5 Including Agua Hedionda Lagoon and Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure CB-04B

Western/Eastern Views from I-5 Including Agua Hedionda Lagoon and Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure CB-04C

Western/Eastern Views from I-5 Including Agua Hedionda Lagoon and Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure CB-04D

Western/Eastern Views from I-5 Including Agua Hedionda Lagoon and Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure CB-04E

Western/Eastern Views from I-5 Including Agua Hedionda Lagoon and Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure CB-04F

Western/Eastern Views from I-5 Including Agua Hedionda Lagoon and Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure CB-04G

Western/Eastern Views from I-5 Including Agua Hedionda Lagoon and Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure CB-04H

Western/Eastern Views from I-5 Including Agua Hedionda Lagoon and Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure CB-04I

Western/Eastern Views from I-5 Including Agua Hedionda Lagoon and Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure CB-04J

Western/Eastern Views from I-5 Including Agua Hedionda Lagoon and Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure CB-05A

Views from Public Trails Along Lagoon Perimeter that Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure CB-05B

Views from Public Trails Along Lagoon Perimeter that Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure CB-05C

Views from Public Trails Along Lagoon Perimeter that Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure CB-05D

Views from Public Trails Along Lagoon Perimeter that Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure CB-05E

Views from Public Trails Along Lagoon Perimeter that Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure CB-05F

Views from Public Trails Along Lagoon Perimeter that Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure CB-05G

Views from Public Trails Along Lagoon Perimeter that Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure CB-05H

Views from Public Trails Along Lagoon Perimeter that Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure CB-07A

Northwestern Views from Cannon Road Across Lagoon/Open Space Toward I-5

DATA SOURCES: Google, Caltrans

Figure CB-07B

Northwestern Views from Cannon Road Across Lagoon/Open Space Toward I-5

DATA SOURCES: Google, Caltrans

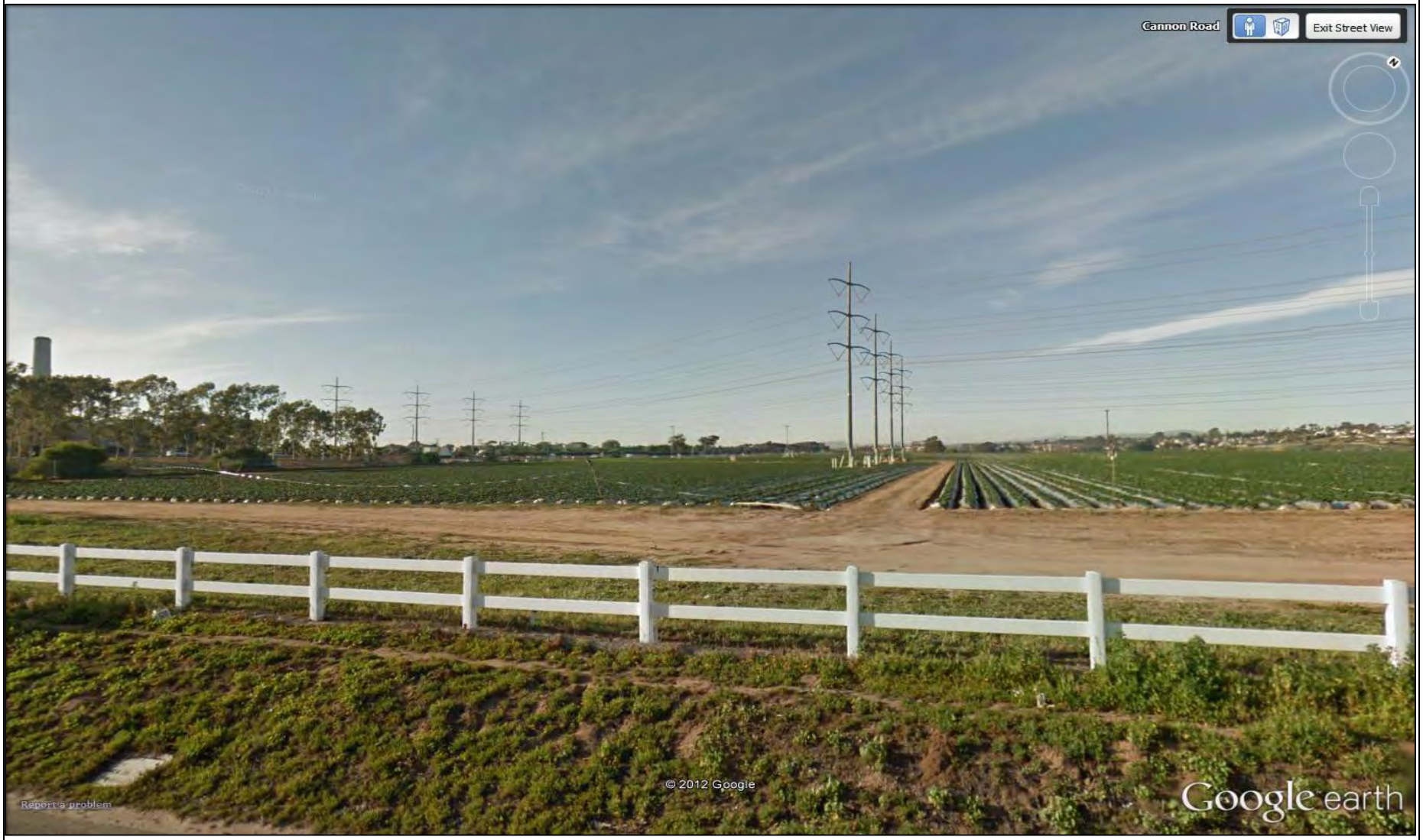
Figure CB-07C

Northwestern Views from Cannon Road Across Lagoon/Open Space Toward I-5

DATA SOURCES: Google, Caltrans

Figure CB-07D

Northwestern Views from Cannon Road Across Lagoon/Open Space Toward I-5



DATA SOURCES: Google, Caltrans

Figure CB-07E

Northwestern Views from Cannon Road Across Lagoon/Open Space Toward I-5

DATA SOURCES: Google, Caltrans

Figure CB-09A

Northern/Western/Eastern Views from Jefferson Street Across Lagoon Toward I-5

DATA SOURCES: Google, Caltrans

Figure CB-09B

Northern/Western/Eastern Views from Jefferson Street Across Lagoon Toward I-5

DATA SOURCES: Google, Caltrans

Figure CB-09C

Northern/Western/Eastern Views from Jefferson Street Across Lagoon Toward I-5

DATA SOURCES: Google, Caltrans

Figure CB-09D

Northern/Western/Eastern Views from Jefferson Street Across Lagoon Toward I-5

DATA SOURCES: Google, Caltrans

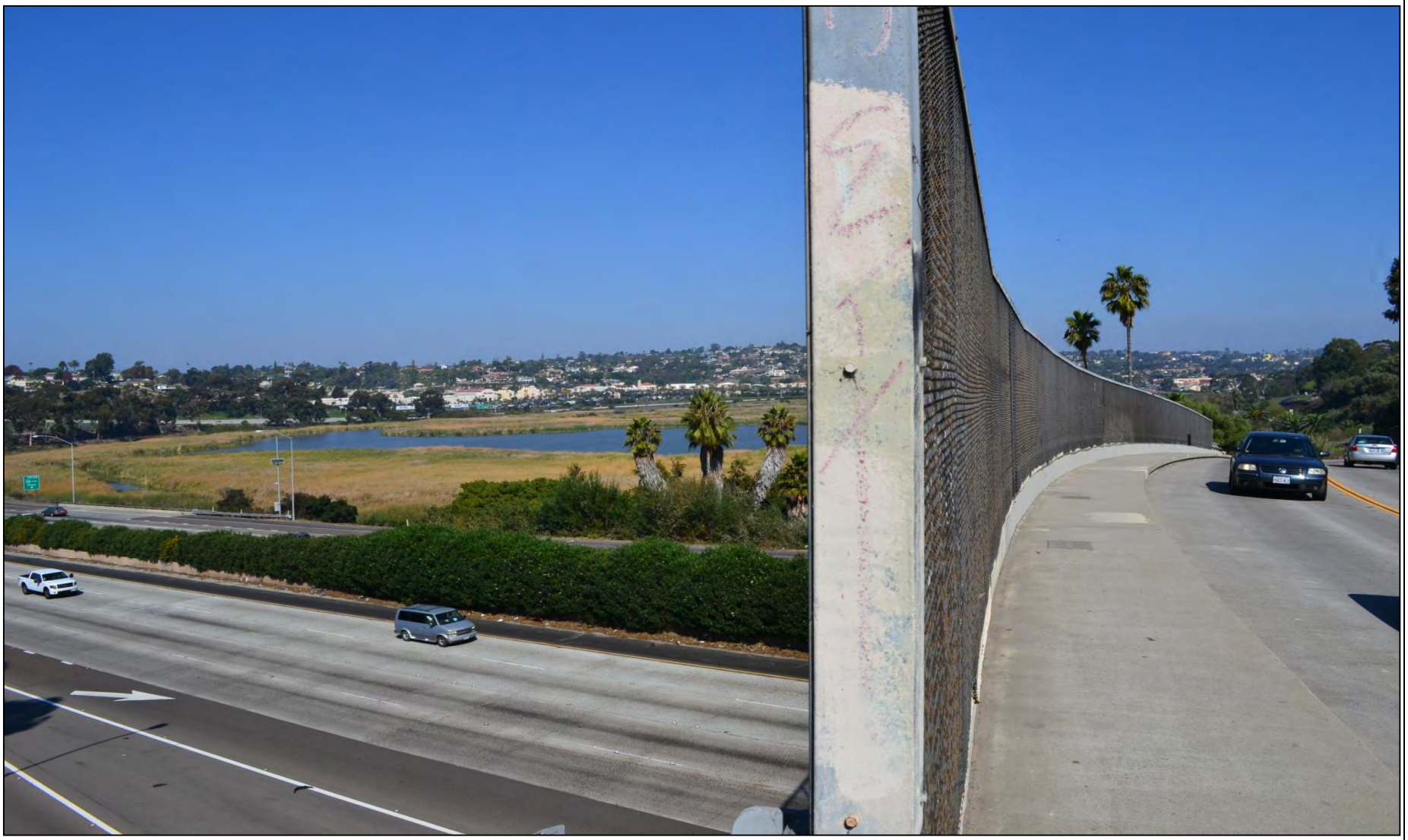
Figure CB-09E

Northern/Western/Eastern Views from Jefferson Street Across Lagoon Toward I-5

DATA SOURCES: Google, Caltrans

Figure CB-09F

Northern/Western/Eastern Views from Jefferson Street Across Lagoon Toward I-5



DATA SOURCES: Google, Caltrans

Figure CB-09G

Northern/Western/Eastern Views from Jefferson Street Across Lagoon Toward I-5

DATA SOURCES: Google, Caltrans

Figure CB-10A

Eastern Views from State Street/Carlsbad Boulevard Across Lagoon Toward I-5

DATA SOURCES: Google, Caltrans

Figure CB-10B

Eastern Views from State Street/Carlsbad Boulevard Across Lagoon Toward I-5

DATA SOURCES: Google, Caltrans

Figure CB-10C

Eastern Views from State Street/Carlsbad Boulevard Across Lagoon Toward I-5

DATA SOURCES: Google, Caltrans

Figure CB-11A

Batiquitos Lagoon at La Costa Avenue (Near Park and Ride; see Also Encinitas LCP Vista Points)

DATA SOURCES: Google, Caltrans

Figure CB-11B

Batiquitos Lagoon at La Costa Avenue (Near Park and Ride; see Also Encinitas LCP Vista Points)

DATA SOURCES: Google, Caltrans

Figure CB-11C

Batiquitos Lagoon at La Costa Avenue (Near Park and Ride; see Also Encinitas LCP Vista Points)

DATA SOURCES: Google, Caltrans

Figure CB-11D

Batiquitos Lagoon at La Costa Avenue (Near Park and Ride; see Also Encinitas LCP Vista Points)

DATA SOURCES: Google, Caltrans

Figure CB-11E

Batiquitos Lagoon at La Costa Avenue (Near Park and Ride; see Also Encinitas LCP Vista Points)

DATA SOURCES: Google, Caltrans

Figure OC-01A

Western/Eastern Views from I-5 Including Buena Vista Lagoon and Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure OC-01B

Western/Eastern Views from I-5 Including Buena Vista Lagoon and Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure OC-01C

Western/Eastern Views from I-5 Including Buena Vista Lagoon and Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure OC-01D

Western/Eastern Views from I-5 Including Buena Vista Lagoon and Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure OC-01E

Western/Eastern Views from I-5 Including Buena Vista Lagoon and Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure OC-01F

Western/Eastern Views from I-5 Including Buena Vista Lagoon and Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure OC-02A

Southern/Western Views from SR 78 Across Lagoon Toward I-5

DATA SOURCES: Google, Caltrans

Figure OC-02B

Southern/Western Views from SR 78 Across Lagoon Toward I-5

DATA SOURCES: Google, Caltrans

Figure OC-02C

Southern/Western Views from SR 78 Across Lagoon Toward I-5

DATA SOURCES: Google, Caltrans

Figure OC-02D

Southern/Western Views from SR 78 Across Lagoon Toward I-5

DATA SOURCES: Google, Caltrans

Figure OC-02E

Southern/Western Views from SR 78 Across Lagoon Toward I-5

DATA SOURCES: Google, Caltrans

Figure OC-02F

Southern/Western Views from SR 78 Across Lagoon Toward I-5

DATA SOURCES: Google, Caltrans

Figure OC-03A

Eastern Views from Carlsbad Boulevard (Public Fishing Area) Across Lagoon Toward I-5

DATA SOURCES: Google, Caltrans

Figure OC-03B

Eastern Views from Carlsbad Boulevard (Public Fishing Area) Across Lagoon Toward I-5

DATA SOURCES: Google, Caltrans

Figure OC-03C

Eastern Views from Carlsbad Boulevard (Public Fishing Area) Across Lagoon Toward I-5

DATA SOURCES: Google, Caltrans

Figure OC-03D

Eastern Views from Carlsbad Boulevard (Public Fishing Area) Across Lagoon Toward I-5

DATA SOURCES: Google, Caltrans

Figure OC-04A

Eastern Views from Public Trail System Extending Along Lagoon Perimeter East of Audubon Center Toward I-5

DATA SOURCES: Google, Caltrans

Figure OC-04B

Eastern Views from Public Trail System Extending Along Lagoon Perimeter East of Audubon Center Toward I-5

DATA SOURCES: Google, Caltrans

Figure OC-04C

Eastern Views from Public Trail System Extending Along Lagoon Perimeter East of Audubon Center Toward I-5

DATA SOURCES: Google, Caltrans

Figure OC-04D

Eastern Views from Public Trail System Extending Along Lagoon Perimeter East of Audubon Center Toward I-5

DATA SOURCES: Google, Caltrans

Figure OC-04E

Eastern Views from Public Trail System Extending Along Lagoon Perimeter East of Audubon Center Toward I-5

DATA SOURCES: Google, Caltrans

Figure OC-05A

Western/Eastern Views from I-5 Including the Pacific Ocean, San Luis Rey River Valley, and Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure OC-05B

Western/Eastern Views from I-5 Including the Pacific Ocean, San Luis Rey River Valley, and Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure OC-05C

Western/Eastern Views from I-5 Including the Pacific Ocean, San Luis Rey River Valley, and Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure OC-05D

Western/Eastern Views from I-5 Including the Pacific Ocean, San Luis Rey River Valley, and Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure OC-05E

Western/Eastern Views from I-5 Including the Pacific Ocean, San Luis Rey River Valley, and Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure OC-05F

Western/Eastern Views from I-5 Including the Pacific Ocean, San Luis Rey River Valley, and Coastal and Inland Natural Coastal Landforms

DATA SOURCES: Google, Caltrans

Figure OC-06A

Northern/Western Views from SR 76 Across San Luis Rey River Valley Toward I-5

DATA SOURCES: Google, Caltrans

Figure OC-07A

Views from Public Trails (San Luis Rey River Trail) within San Luis Rey River Valley that Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure OC-07B

Views from Public Trails (San Luis Rey River Trail) within San Luis Rey River Valley that Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure OC-07C

Views from Public Trails (San Luis Rey River Trail) within San Luis Rey River Valley that Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure OC-07D

Views from Public Trails (San Luis Rey River Trail) within San Luis Rey River Valley that Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure OC-07E

Views from Public Trails (San Luis Rey River Trail) within San Luis Rey River Valley that Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure OC-07F

Views from Public Trails (San Luis Rey River Trail) within San Luis Rey River Valley that Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure OC-07G

Views from Public Trails (San Luis Rey River Trail) within San Luis Rey River Valley that Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure OC-07H

Views from Public Trails (San Luis Rey River Trail) within San Luis Rey River Valley that Include Proposed I-5 Improvements

DATA SOURCES: Google, Caltrans

Figure OC-08A

Eastern Views from Pacific Street Across River Valley Toward I-5

DATA SOURCES: Google, Caltrans

Figure OC-08B

Eastern Views from Pacific Street Across River Valley Toward I-5

DATA SOURCES: Caltrans, California Coastal Commission, Local Jurisdictions, SanGIS, SANDAG, Imagery: DigitalGlobe March 2008

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Proposed Intermediate Access Points, Overhead Signs, and Scanners (Sheet 1 of 6)

I-5 NORTH COAST CORRIDOR PROJECT
HOV/MANAGED LANES
INTERMEDIATE ACCESS POINTS (IAPs)
PROPOSED OVERHEAD SIGNS
AND SCANNER LOCATIONS

NO SCALE SHEET 1 of 6

DATA SOURCES: Caltrans, California Coastal Commission, Local Jurisdictions, SanGIS, SANDAG, Imagery: DigitalGlobe March 2008

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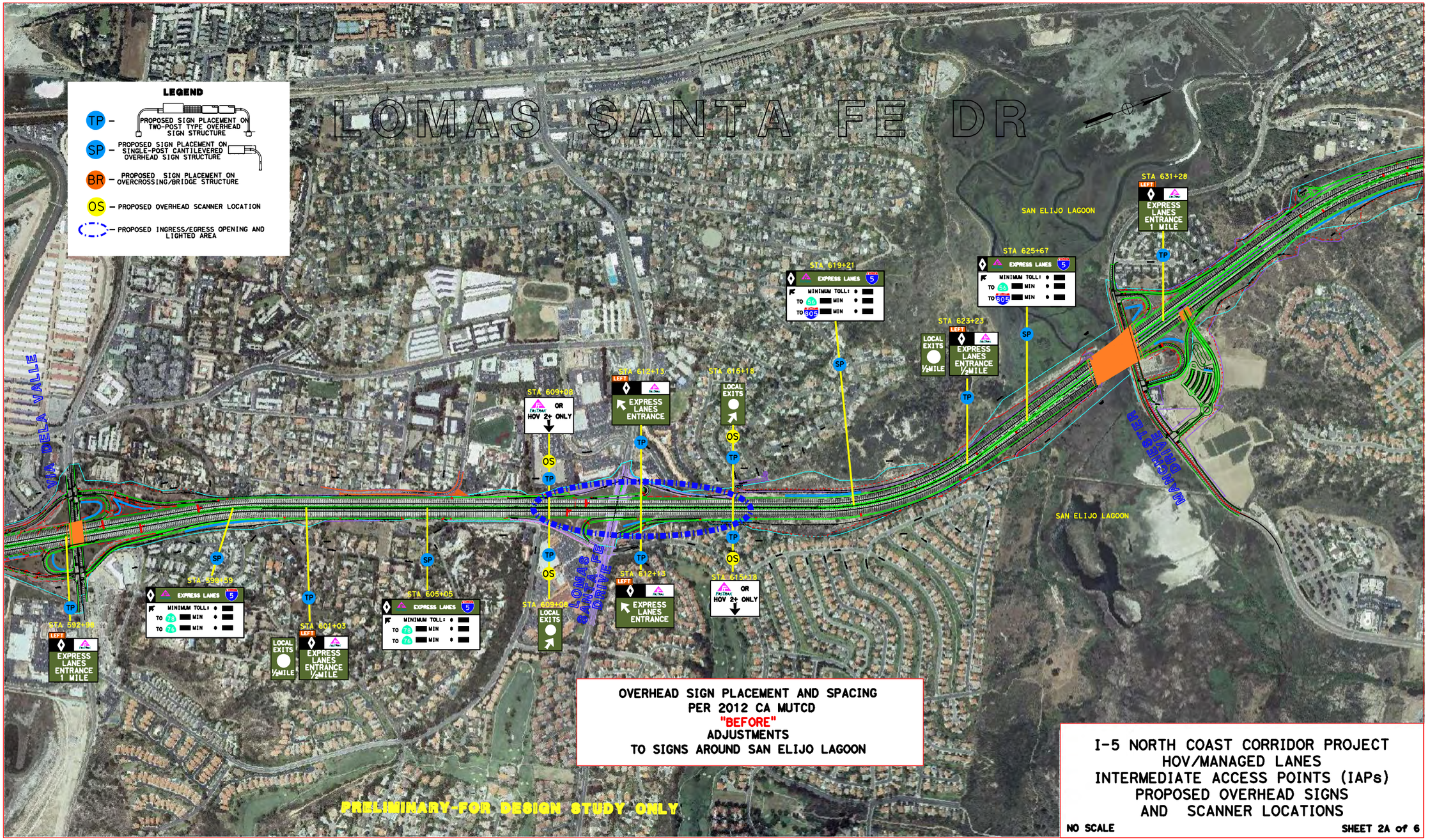

DATA SOURCES: Caltrans, California Coastal Commission, Local Jurisdictions, SanGIS, SANDAG, Imagery: DigitalGlobe March 2008

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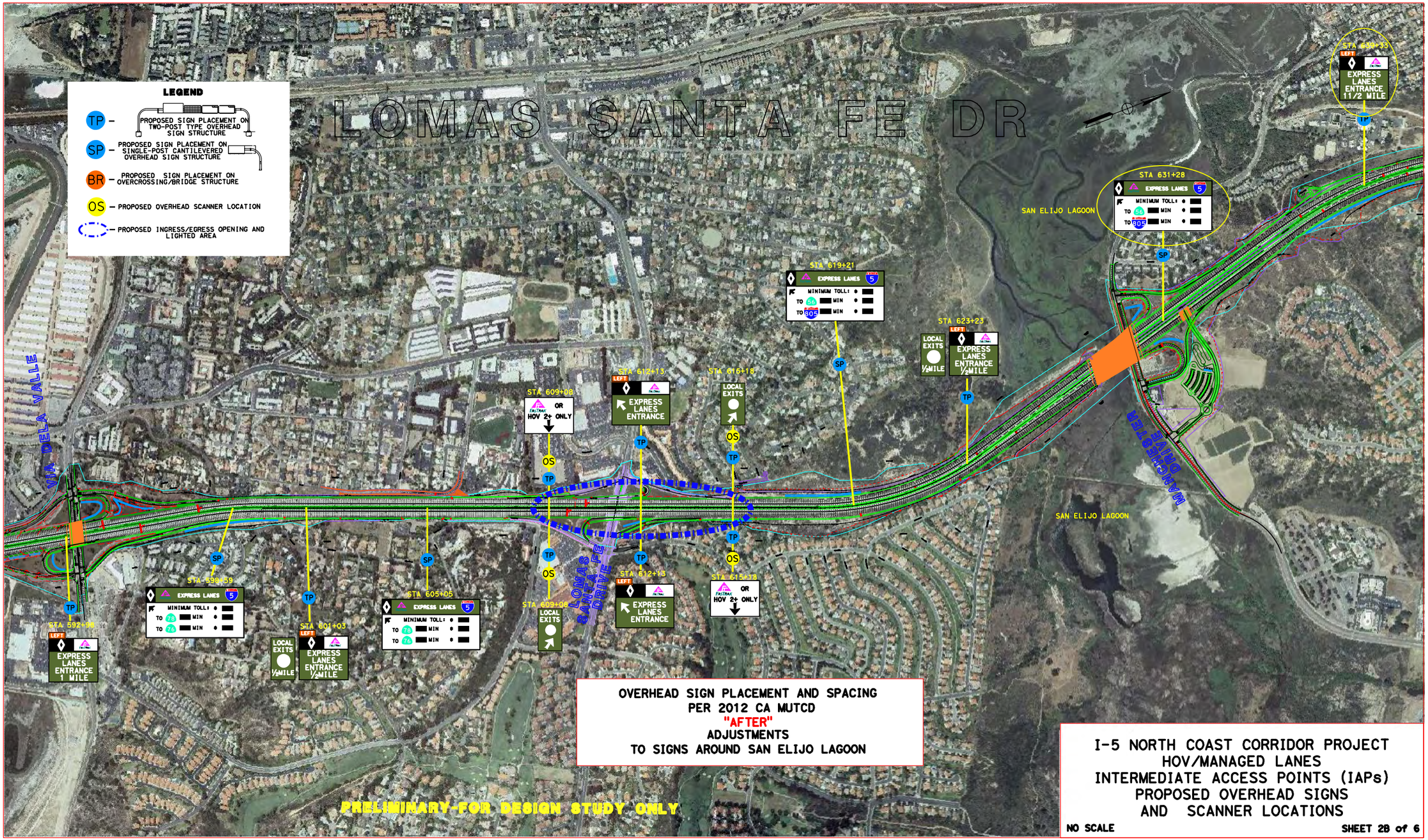

DATA SOURCES: Caltrans, California Coastal Commission, Local Jurisdictions, SanGIS, SANDAG, Imagery: DigitalGlobe March 2008

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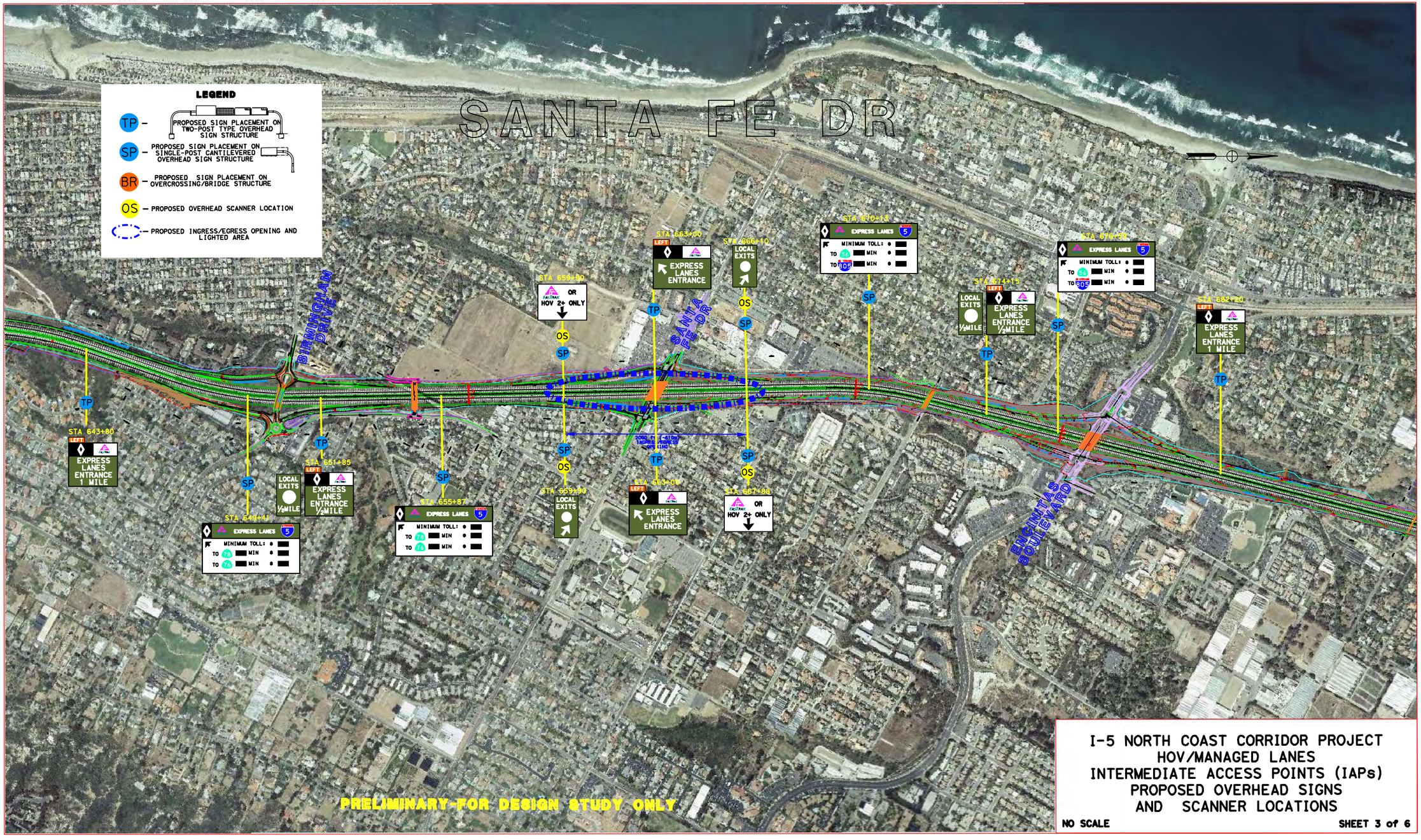
FIGURE B-2D

Proposed Intermediate Access Points, Overhead Signs, and Scanners (Sheet 3 of 6)



I-5 NORTH COAST CORRIDOR PROJECT
HOV/MANAGED LANES
INTERMEDIATE ACCESS POINTS (IAPs)
PROPOSED OVERHEAD SIGNS
AND SCANNER LOCATIONS

NO SCALE SHEET 3 of 6

DATA SOURCES: Caltrans, California Coastal Commission, Local Jurisdictions, SanGIS, SANDAG, Imagery: DigitalGlobe March 2008

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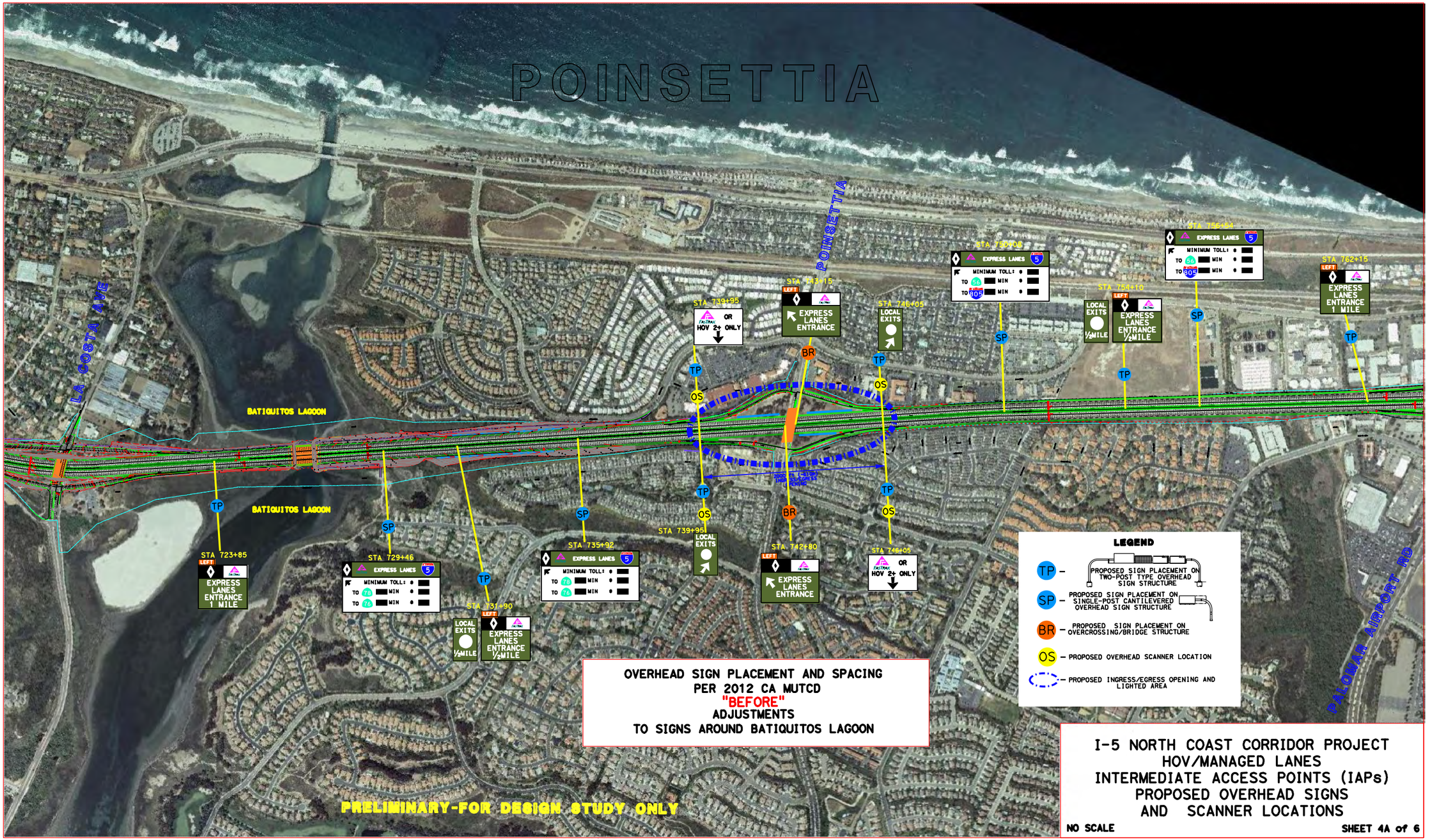
FIGURE B-2E

Proposed Intermediate Access Points, Overhead Signs, and Scanners (Sheet 4A of 6)



DATA SOURCES: Caltrans, California Coastal Commission, Local Jurisdictions, SanGIS, SANDAG, Imagery: DigitalGlobe March 2008

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FIGURE B-2F

Proposed Intermediate Access Points, Overhead Signs, and Scanners (Sheet 4B of 6)

POINSETTIA

POINSETTIA

LA COSTA AVE

BATIQUITOS LAGOON

BATIQUITOS LAGOON

PALOMAR AIRPORT RD

STA 723+85 LEFT EXPRESS LANES ENTRANCE 1 MILE

STA 729+46 EXPRESS LANES 5 MINIMUM TOLL: 0 TO 78 MIN 0 TO 76 MIN 0

STA 731+90 LEFT LOCAL EXITS ½MILE EXPRESS LANES ENTRANCE ½MILE

STA 735+92 EXPRESS LANES 5 MINIMUM TOLL: 0 TO 78 MIN 0 TO 76 MIN 0

STA 739+95 LOCAL EXITS

STA 739+95 FASTRAK OR HOV 2+ ONLY

STA 742+80 LEFT EXPRESS LANES ENTRANCE

STA 743+15 LEFT EXPRESS LANES ENTRANCE

STA 746+05 FASTRAK OR HOV 2+ ONLY

STA 746+05 LOCAL EXITS

STA 750+08 EXPRESS LANES 5 MINIMUM TOLL: 0 TO 56 MIN 0 TO 805 MIN 0

STA 754+10 LOCAL EXITS ½MILE

STA 754+10 LEFT EXPRESS LANES ENTRANCE ½MILE

STA 756+54 EXPRESS LANES 5 MINIMUM TOLL: 0 TO 56 MIN 0 TO 805 MIN 0

STA 762+15 LEFT EXPRESS LANES ENTRANCE 1 MILE

TP

SP

BR

OS

LEGEND

TP – PROPOSED SIGN PLACEMENT ON TWO-POST TYPE OVERHEAD SIGN STRUCTURE

SP – PROPOSED SIGN PLACEMENT ON SINGLE-POST CANTILEVERED OVERHEAD SIGN STRUCTURE

BR – PROPOSED SIGN PLACEMENT ON OVERCROSSING/BRIDGE STRUCTURE

OS – PROPOSED OVERHEAD SCANNER LOCATION

PROPOSED INGRESS/EGRESS OPENING AND LIGHTED AREA

OVERHEAD SIGN PLACEMENT AND SPACING
PER 2012 CA MUTCD
"BEFORE"
ADJUSTMENTS
TO SIGNS AROUND BATIQUITOS LAGOON

PRELIMINARY-FOR DESIGN STUDY ONLY

I-5 NORTH COAST CORRIDOR PROJECT
HOV/MANAGED LANES
INTERMEDIATE ACCESS POINTS (IAPs)
PROPOSED OVERHEAD SIGNS
AND SCANNER LOCATIONS

NO SCALE SHEET 4A of 6

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FIGURE B-2G

Proposed Intermediate Access Points, Overhead Signs, and Scanners (Sheet 5A of 6)

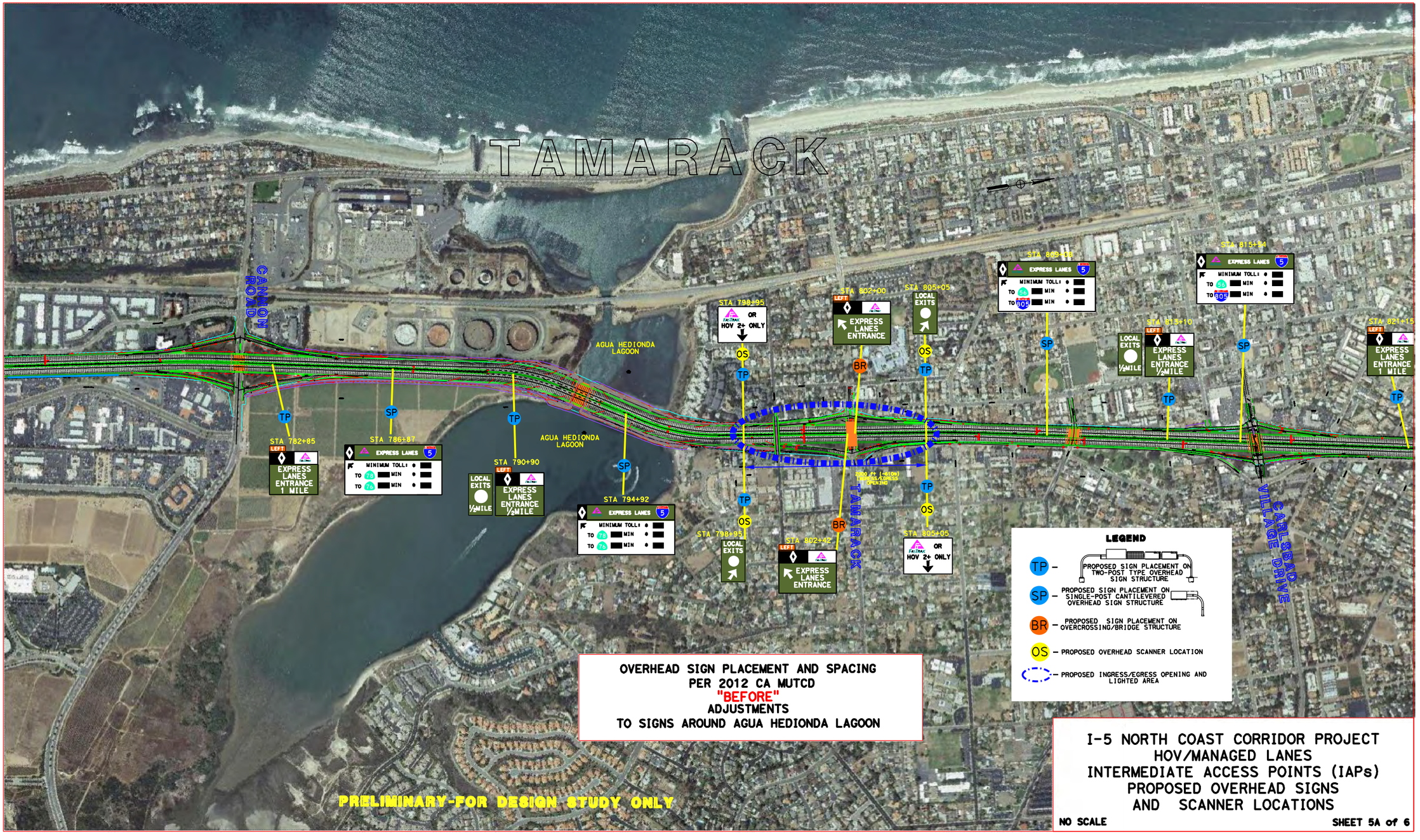

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FIGURE B-2H

Proposed Intermediate Access Points, Overhead Signs, and Scanners (Sheet 5B of 6)

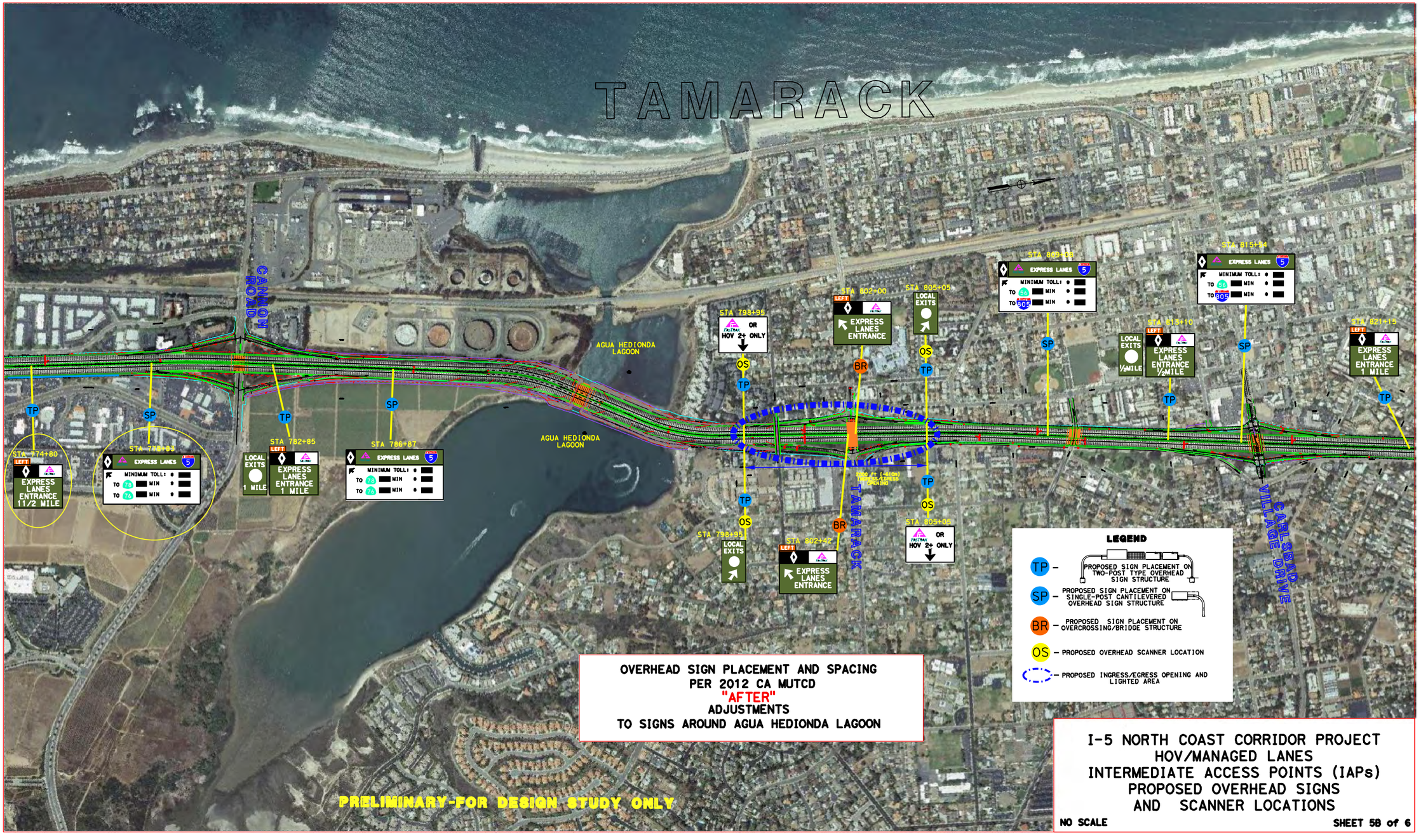

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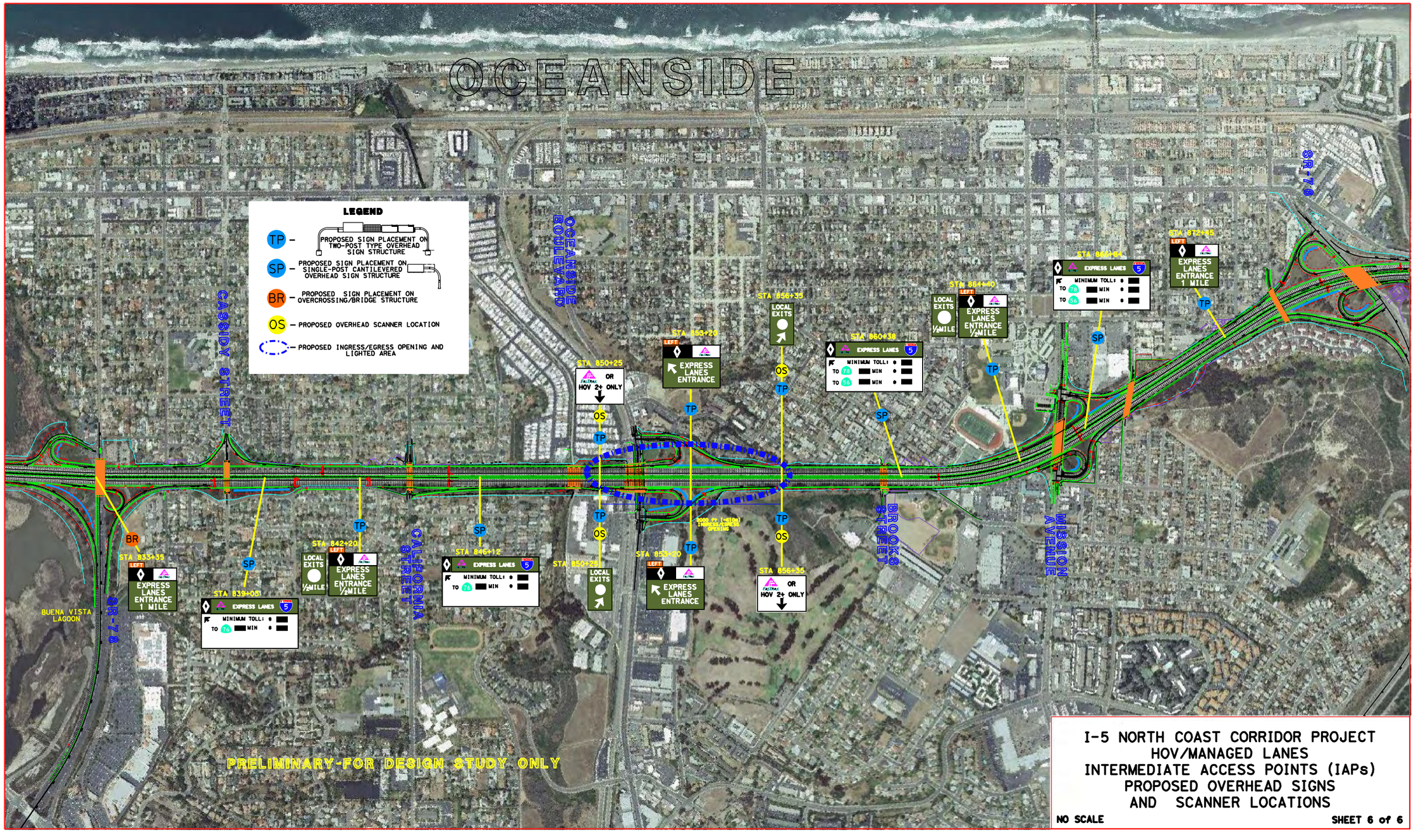
FIGURE B-2I

Proposed Intermediate Access Points, Overhead Signs, and Scanners (Sheet 6 of 6)



Intermediate Access Point (IAP) Signage Criteria

1. Placement of HOV/Managed Lanes advance warning signs as outlined Chapter 2G of the 2012 California Manual on Uniform Traffic Control Devices (CA MUTCD). Minimum advance sign placement is about 1 mile from entry point of the Intermediate Access Points (IAPs) with advance signs to IAP entrance placed in 0.5 mile increments. Tolling signs are placed (at minimum) about 0.25 mile and 0.65 mile from the IAP entrance, respectively. Sign dimensions are summarized in Table 2G-1. Note that the figure below show only regulatory (guide) signs as they apply to IAPs.

Figure 2G-24. Example of Signing for the Intermediate Entry to, Egress from, and End of Access-Restricted Priced Managed Lanes

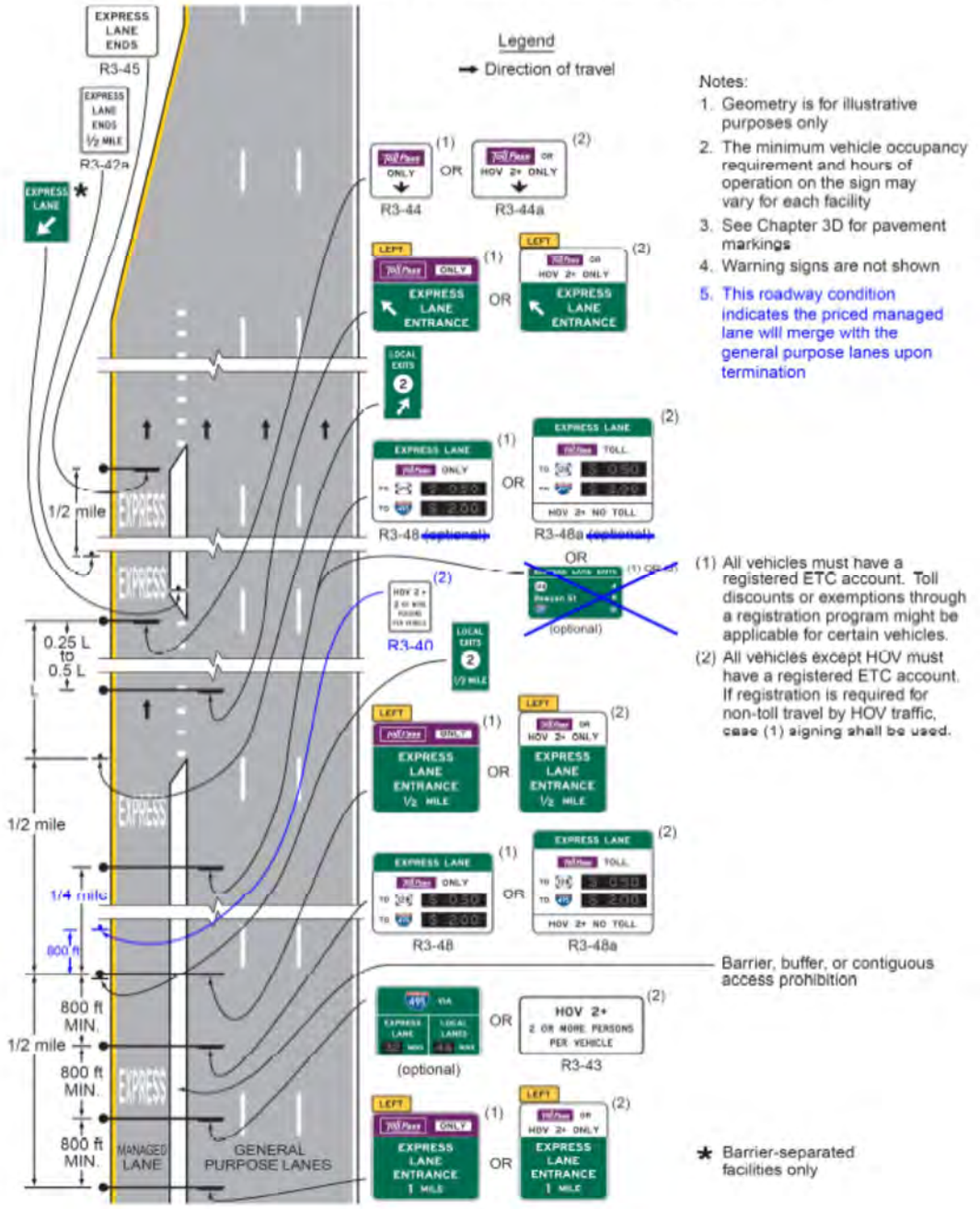
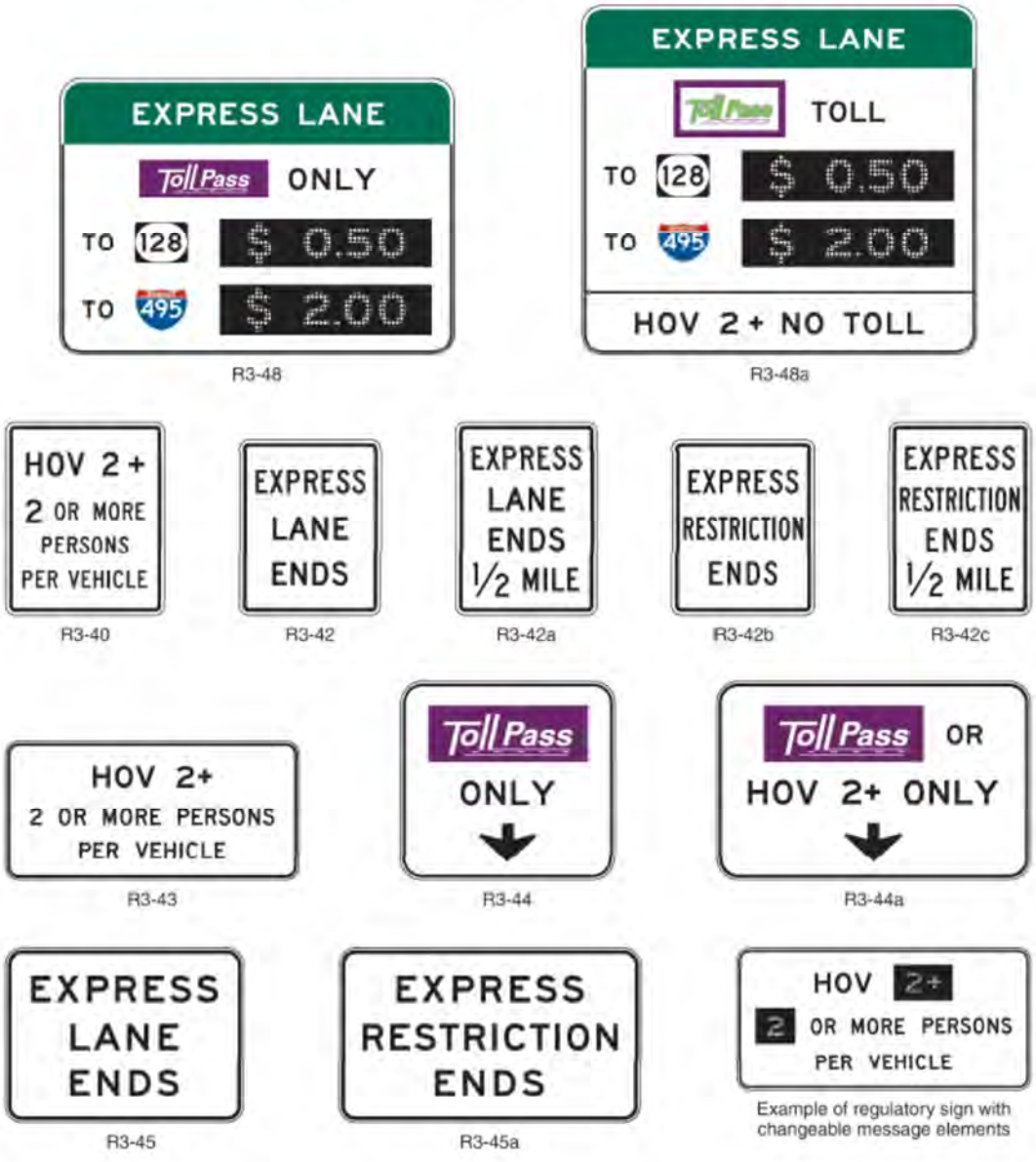


Figure 2G-17. Regulatory Signs for Managed Lanes



Notes:

1. The ETC pictograph shown is an example only. The pictograph for the toll facility's adopted ETC system shall be used.
2. Changeable message sign elements shall be used for the numerals displayed for the variable tolls.

Figure 2G-18. Examples of Guide Signs for Entrances to Priced Managed Lanes

A - ENTRANCE TO A PRICED MANAGED LANE FROM A GENERAL PURPOSE LANE

B - DIRECT ENTRANCE TO A PRICED MANAGED LANE FROM A CROSSROAD

Note: 1. The ETC pictographs shown are examples only. The pictograph for the toll facility's adopted ETC system shall be used.
2. The examples shown are for facilities on which registration in a toll account program is required for toll payments.

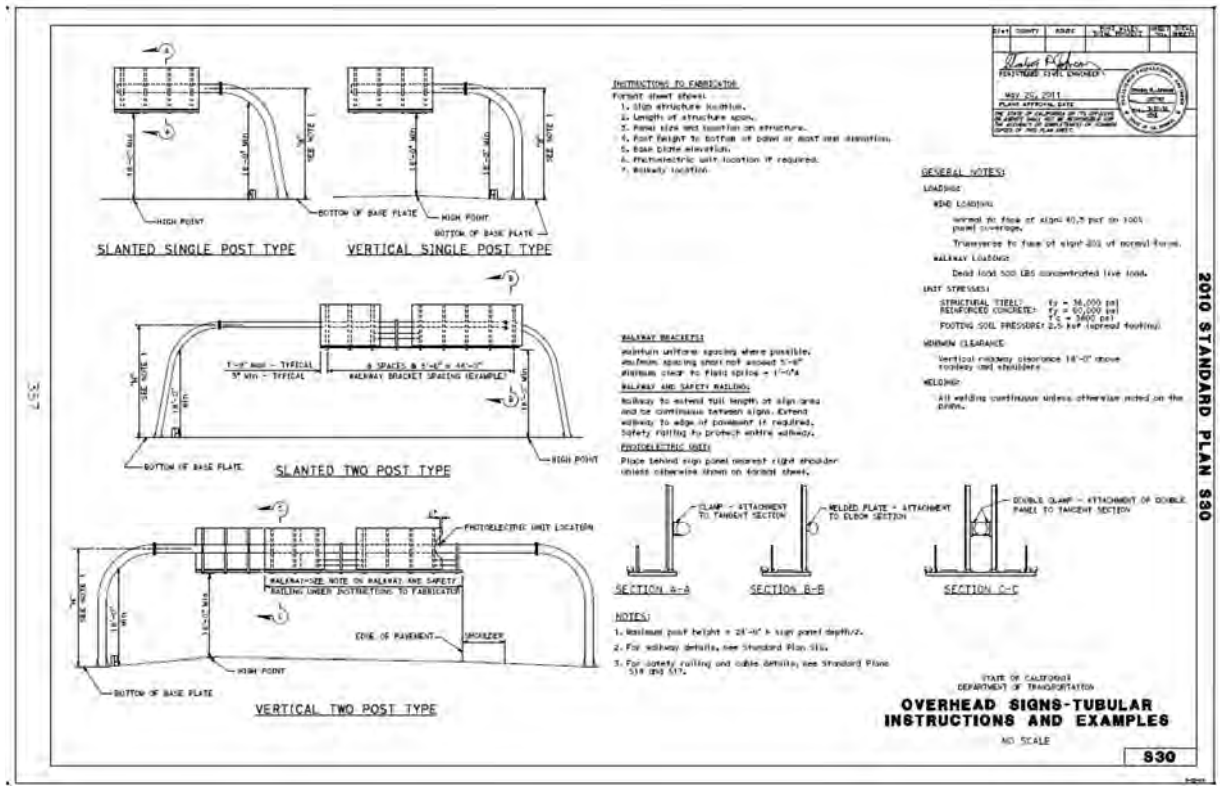
2. Minimum Sign and Plaque sizes. Dimensions of signing outlined on Figure 2G-17 and Figure 2G-24 above are shown on Table 2G-1 with the appropriate signs and highway facility type circled. See Figure 2G-24 for sign designations. Dimensions are in inches

Table 2G-1. Managed and Preferential Lanes Sign and Plaque Minimum Sizes

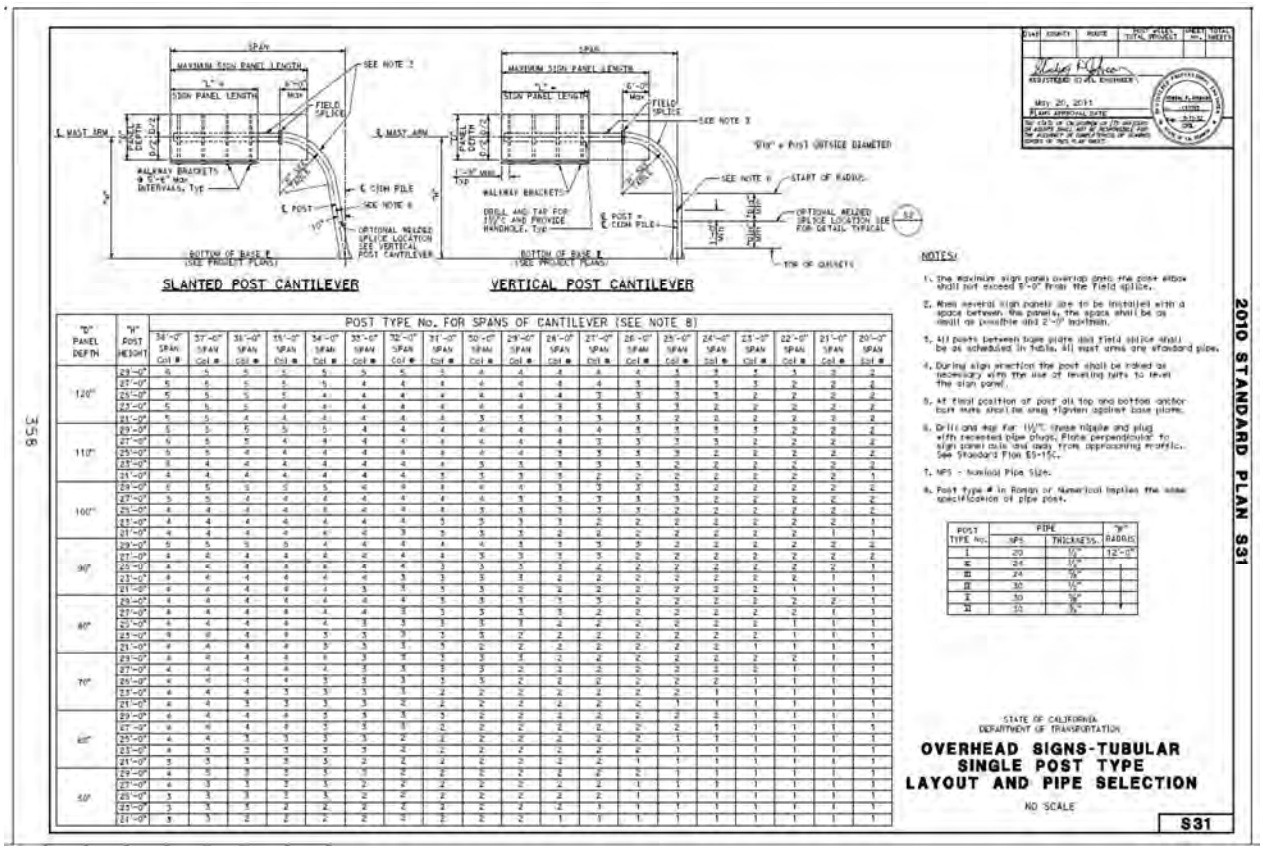
Sign or Plaque	Sign Designation	Section	Conventional Road		Expressway	Freeway	Oversized
			Single Lane	Multi-Lane			
~~Preferential Lane Vehicle Occupancy Definition (post-mounted)~~	~~R3-10,10a~~	~~2G.04~~	~~30 x 42~~	~~30 x 42~~	~~30 x 60~~	~~78 x 60~~	~~78 x 96~~
Preferential Lane Periods of Operation (post-mounted)	R3-11 series	2G.05	30 x 42	30 x 42	36 x 60	36 x 60 ~~78 x 96~~	78 x 96
~~Motorcycles Allowed (plaque)~~	~~R3-11P~~	~~2G.09~~	~~30 x 15~~	~~30 x 15~~	~~36 x 18~~	~~78 x 96~~	~~78 x 96~~
Preferential Lane Ahead or Ends (post-mounted)	R3-12 series	2G.06	30 x 42	30 x 42	36 x 60	39 x 60 ~~48 x 84~~	48 x 84
Preferential Lane Vehicle Occupancy Definition (overhead)	R3-13,13a	2G.04	66 x 36	66 x 36	84 x 48	144 x 78	144 x 78
HOV Lane Periods of Operation (overhead)	R3-14,14a,14b	2G.05	72 x 60	72 x 60	96 x 72	144 x 108	144 x 108
Preferential Lane Periods of Operation (overhead)	R3-14c	2G.05	90 x 60	90 x 60	108 x 72	156 x 102	168 x 102
HOV Lane Ahead (overhead)	R3-15	2G.06	66 x 36	66 x 36	84 x 48	102 x 60	102 x 60
HOV Lane Begins XX Miles (overhead)	R3-15a	2G.06	78 x 42	78 x 42	102 x 54	132 x 72	132 x 72
HOV Lane Ends (overhead)	R3-15b,15c	2G.07	66 x 36	66 x 36	84 x 48	102 x 60	102 x 60
Preferential Lane Ahead or Ends (overhead)	R3-15d,15e	2G.07	42 x 36	42 x 36	54 x 48	72 x 60	72 x 60
Priced Managed Lane Vehicle Occupancy Definition (post-mounted)	R3-40	2G.17	—	—	54 x 66	54 x 66	66 x 78
Priced Managed Lane Ends (post-mounted)	R3-42,42b	2G.17	—	—	48 x 60	48 x 60	60 x 78
Priced Managed Lane Ends Advance (post-mounted)	R3-42a,42c	2G.17	—	—	48 x 66	48 x 66	60 x 84
Priced Managed Lane Vehicle Occupancy Definition	R3-43	2G.17	—	—	138 x 66	138 x 66	—
Priced Managed Lane Periods of Operation (overhead)	R3-44	2G.17	—	—	90 x 84	90 x 84	—
Priced Managed Lane Periods of Operation (overhead)	R3-44a	2G.17	—	—	132 x 84	132 x 84	—
Priced Managed Lane Ends (overhead)	R3-45	2G.17	—	—	90 x 66	90 x 66	—
Priced Managed Lane Ends (overhead)	R3-45a	2G.17	—	—	114 x 66	114 x 66	—
Priced Managed Lane Toll Rate	R3-48	2G.17	—	—	Varies	Varies	—
Priced Managed Lane Toll Rate	R3-48a	2G.17	—	—	Varies	Varies	—
HOV (plaque)	W16-11P	2G.09	24 x 12	24 x 12	30 x 18	30 x 18	30 x 18
Preferential Lane Entrance Gore	E8-1	2G.10	—	—	48 x 96	48 x 96	—
Preferential Lane Intermediate Entrance Gore	E8-1a	2G.10	—	—	48 x 84	48 x 84	—
Preferential Lane Entrance Direction (overhead)	E8-2	2G.11	—	—	222 x 72	222 x 72	—
Preferential Lane Entrance Direction (post-mounted)	E8-2a	2G.11	—	—	186 x 108	186 x 108	—
Preferential Lane Entrance Advance	E8-3	2G.11	—	—	186 x 96	186 x 96	—
Preferential Lane Direct Exit Gore	E8-4	2G.15	—	—	60 x 78	60 x 78	—
Preferential Lane Intermediate Egress Direction	E8-5	2G.13	—	—	Varies x 90	Varies x 90	—
Preferential Lane Intermediate Egress Advance	E8-6	2G.13	—	—	Varies x 84	Varies x 84	—

Notes: 1. Larger signs may be used when appropriate
2. Dimensions in inches are shown as width x height

3. Overhead signs. Caltrans Standard Plans S30 show typical placement and minimum clearance from freeway pavement. Signs and sign structures require a minimum vertical clearance of 18 feet from freeway high point and edge of shoulder, respectively. Tubular overhead signs can be specified as slanted or vertical post.



4. Overhead Sign- Single Post Type. Span (cantilever) range from 20 feet to 38 feet. Height to centerline of mast arm(H) ranges from 21 feet to 29 feet relative to the bottom of base plate and is a function of the sign panel depth(D). Sign panel depth range from 50 inches to 120 inches. H and D in turn would be used to determine the post type and thickness. Please see Standard Plan S31 below for additional details.



SLANTED POST CANTILEVER

VERTICAL POST CANTILEVER

"D" PANEL DEPTH	"H" POST HEIGHT	POST TYPE No. FOR SPANS OF CANTILEVER (SEE NOTE 8)																	
		38'-0" SPAN Col #	37'-0" SPAN Col #	36'-0" SPAN Col #	35'-0" SPAN Col #	34'-0" SPAN Col #	33'-0" SPAN Col #	32'-0" SPAN Col #	31'-0" SPAN Col #	30'-0" SPAN Col #	29'-0" SPAN Col #	28'-0" SPAN Col #	27'-0" SPAN Col #	26'-0" SPAN Col #	25'-0" SPAN Col #	24'-0" SPAN Col #	23'-0" SPAN Col #	22'-0" SPAN Col #	21'-0" SPAN Col #	20'-0" SPAN Col #
120"	29'-0"	6	5	5	5	5	5	5	5	4	4	4	4	4	3	3	3	2	2	2
	27'-0"	5	5	5	5	5	4	4	4	4	4	4	4	3	3	3	3	2	2	2
	25'-0"	5	5	5	5	4	4	4	4	4	4	4	3	3	3	3	2	2	2	2
	23'-0"	5	5	5	4	4	4	4	4	4	4	3	3	3	3	2	2	2	2	2
	21'-0"	5	5	4	4	4	4	4	4	4	3	3	3	3	3	2	2	2	2	2
110"	29'-0"	5	5	5	5	5	4	4	4	4	4	4	4	4	3	3	3	2	2	2
	27'-0"	5	5	5	4	4	4	4	4	4	4	4	3	3	3	3	2	2	2	2
	25'-0"	5	5	4	4	4	4	4	4	4	4	3	3	3	3	2	2	2	2	2
	23'-0"	5	4	4	4	4	4	4	4	3	3	3	3	3	2	2	2	2	2	2
	21'-0"	4	4	4	4	4	4	4	3	3	3	3	2	2	2	2	2	2	2	1
100"	29'-0"	5	5	5	5	4	4	4	4	4	4	3	3	3	3	2	2	2	2	2
	27'-0"	5	5	4	4	4	4	4	4	4	3	3	3	3	3	2	2	2	2	2
	25'-0"	4	4	4	4	4	4	4	4	3	3	3	3	2	2	2	2	2	2	1
	23'-0"	4	4	4	4	4	4	4	3	3	3	3	2	2	2	2	2	2	2	1
	21'-0"	4	4	4	4	4	4	3	3	3	3	2	2	2	2	2	2	2	1	1
90"	29'-0"	5	5	5	5	4	4	4	4	4	4	3	3	3	3	2	2	2	2	2
	27'-0"	4	4	4	4	4	4	4	4	3	3	3	3	2	2	2	2	2	2	2
	25'-0"	4	4	4	4	4	4	4	3	3	3	3	2	2	2	2	2	2	2	1
	23'-0"	4	4	4	4	4	4	3	3	3	3	2	2	2	2	2	2	2	1	1
	21'-0"	4	4	4	4	4	3	3	3	3	2	2	2	2	2	2	2	1	1	1
80"	29'-0"	4	4	4	4	4	4	4	4	3	3	3	3	2	2	2	2	2	2	1
	27'-0"	4	4	4	4	4	4	3	3	3	3	3	2	2	2	2	2	2	1	1
	25'-0"	4	4	4	4	4	3	3	3	3	3	2	2	2	2	2	2	1	1	1
	23'-0"	4	4	4	4	3	3	3	3	3	2	2	2	2	2	2	2	1	1	1
	21'-0"	4	4	4	4	3	3	3	3	2	2	2	2	2	2	2	1	1	1	1
70"	29'-0"	4	4	4	4	4	3	3	3	3	3	2	2	2	2	2	2	2	2	1
	27'-0"	4	4	4	4	3	3	3	3	3	2	2	2	2	2	2	2	1	1	1
	25'-0"	4	4	4	3	3	3	3	3	2	2	2	2	2	2	2	1	1	1	1
	23'-0"	4	4	4	3	3	3	3	2	2	2	2	2	2	2	1	1	1	1	1
	21'-0"	4	4	3	3	3	3	2	2	2	2	2	2	1	1	1	1	1	1	1
60"	29'-0"	4	4	4	4	3	3	3	3	2	2	2	2	2	2	2	1	1	1	1
	27'-0"	4	4	4	4	3	3	3	2	2	2	2	2	2	1	1	1	1	1	1
	25'-0"	4	4	3	3	3	3	2	2	2	2	2	2	1	1	1	1	1	1	1
	23'-0"	4	3	3	3	3	3	2	2	2	2	2	1	1	1	1	1	1	1	1
	21'-0"	3	3	3	3	3	2	2	2	2	2	1	1	1	1	1	1	1	1	1
50"	29'-0"	4	3	3	3	3	3	2	2	2	2	2	2	1	1	1	1	1	1	1
	27'-0"	4	3	3	3	3	2	2	2	2	2	2	1	1	1	1	1	1	1	1
	25'-0"	3	3	3	3	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1
	23'-0"	3	3	3	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1
	21'-0"	3	3	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1

NOTES:

1. The maximum sign panel overlap plus the post elbow shall not exceed 6'-0" from the field splice.
2. When several sign panels are to be installed with a space between the panels, the space shall be as small as possible and 2'-0" maximum.
3. All posts between base plate and field splice shall be as scheduled in table. All mast arms are standard pipe.
4. During sign erection the post shall be raked as necessary with the use of leveling bolts to level the sign panel.
5. At final position of post all top and bottom anchor bolt nuts shall be snug tighten against base plate.
6. Drill and tap for 1½"℄ three nipple and plug with recessed pipe plugs. Plane perpendicular to sign panel axis and away from approaching traffic. See Standard Plan ES-1F.
7. NPS - Nominal Pipe Size.
8. Post type # in Range or Numerical implies the wall specification of pipe post.

POST TYPE No.	PIPE		"R" RADIUS
	NPS	THICKNESS	
I	20	½"	12'-0"
II	24	½"	"
III	24	⅝"	"
IV	30	½"	"
V	30	⅝"	"
VI	30	¾"	"

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGNS-TUBULAR SINGLE POST TYPE LAYOUT AND PIPE SELECTION

NO SCALE

S31

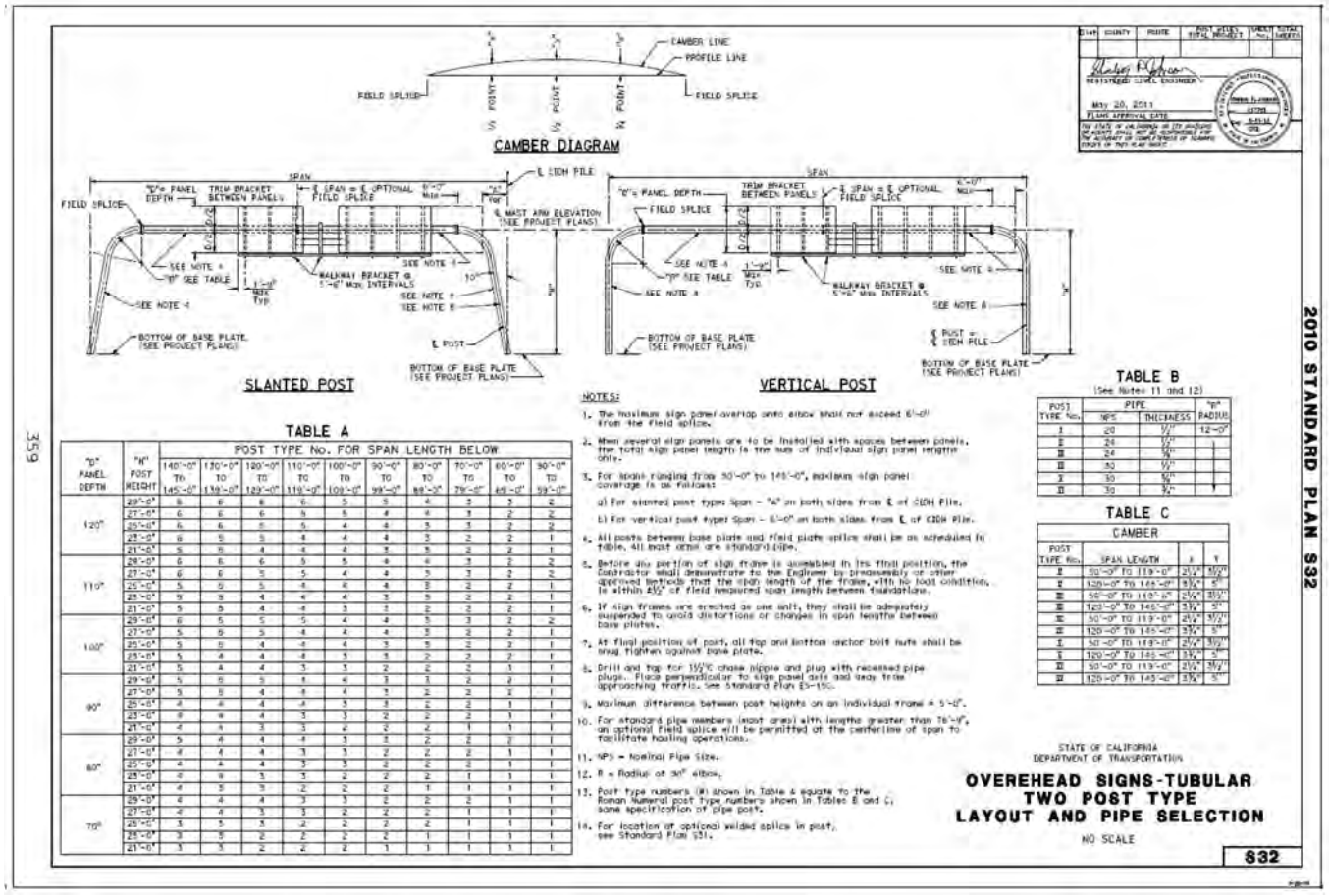
2010 STANDARD PLAN S31

S31

5A. Photo- Single post type tubular overhead sign along CA 241.

5B. Photo- Single post type tubular overhead sign along I-15 in Utah.

6. Overhead Sign- Two Post Type. Spans range from 50 feet to 145 feet. Height to centerline of mast arm(H) ranges from 21 feet to 29 feet relative to the bottom of base plate and is a function of the sign panel depth(D). Sign panel depth range from 50 inches to 120 inches. H and D in turn would be used to determine the post type and thickness. Please see Standard Plan S32 below for additional details.



CAMBER DIAGRAM

SLANTED POST

VERTICAL POST

TABLE A

"D" PANEL DEPTH	"H" POST HEIGHT	POST TYPE No. FOR SPAN LENGTH BELOW 140'-0" TO 145'-0"	130'-0" TO 139'-0"	120'-0" TO 129'-0"	110'-0" TO 119'-0"	100'-0" TO 109'-0"	90'-0" TO 99'-0"	80'-0" TO 89'-0"	70'-0" TO 79'-0"	60'-0" TO 69'-0"	50'-0" TO 59'-0"
120"	29'-0"	8	8	8	6	5	5	4	3	3	2
	27'-0"	6	6	6	5	5	4	4	3	2	2
	25'-0"	6	6	5	5	4	4	3	3	2	2
	23'-0"	6	5	5	4	4	4	3	2	2	1
	21'-0"	5	5	4	4	4	3	3	2	2	1
110"	29'-0"	6	6	6	5	5	4	4	3	2	2
	27'-0"	6	6	5	5	4	4	3	3	2	2
	25'-0"	5	5	5	4	4	4	3	2	2	1
	23'-0"	5	5	4	4	4	3	3	2	2	1
	21'-0"	5	5	4	4	3	3	2	2	2	1
100"	29'-0"	6	5	5	5	4	4	3	3	2	2
	27'-0"	5	5	5	4	4	4	3	2	2	1
	25'-0"	5	5	4	4	4	3	3	2	2	1
	23'-0"	5	4	4	4	3	3	2	2	2	1
	21'-0"	5	4	4	3	3	2	2	2	1	1
90"	29'-0"	5	5	5	4	4	3	3	2	2	1
	27'-0"	5	5	4	4	4	3	2	2	2	1
	25'-0"	4	4	4	4	3	3	2	2	1	1
	23'-0"	4	4	4	3	3	2	2	2	1	1
	21'-0"	4	4	3	3	2	2	2	1	1	1
80"	29'-0"	5	4	4	4	3	3	2	2	2	1
	27'-0"	4	4	4	3	3	2	2	2	1	1
	25'-0"	4	4	4	3	3	2	2	2	1	1
	23'-0"	4	4	3	3	2	2	2	1	1	1
	21'-0"	4	3	3	2	2	2	1	1	1	1
70"	29'-0"	4	4	4	3	3	2	2	2	1	1
	27'-0"	4	4	3	3	2	2	2	1	1	1
	25'-0"	3	3	3	2	2	2	2	1	1	1
	23'-0"	3	3	2	2	2	2	1	1	1	1
	21'-0"	3	3	2	2	2	1	1	1	1	1

NOTES:

1. The maximum sign panel overlap onto elbow shall not exceed 6'-0" from the field splice.
2. When several sign panels are to be installed with spaces between panels, the total sign panel length is the sum of individual sign panel lengths only.
3. For spans ranging from 50'-0" to 145'-0", maximum sign panel coverage is as follows:
   a) For slanted post types Span - 74" on both sides from ℄ of CIDH Pile.
   b) For vertical post type Span - 6'-0" on both sides from ℄ of CIDH Pile.
4. All posts between base plate and field plate splice shall be as scheduled in table. All mast arms are standard pipe.
5. Before any portion of sign frame is assembled in its final position, the Contractor shall demonstrate to the Engineer by preassembly or other approved methods that the sign length of the frame, with no load condition, is within 1½" of field measured span length between foundations.
6. If sign frames are erected as one unit, they shall be adequately suspended to avoid distortions or changes in span lengths between base plates.
7. At final position of post, all top and bottom anchor bolt nuts shall be snug tighten against base plate.
8. Drill and tap for 1½"ø chase nipple and plug with recessed pipe plugs. Place perpendicular to sign panel face and away from approaching traffic. See Standard Plan ES-15C.
9. Maximum difference between post heights on an individual frame = 5'-0".
10. For standard pipe members (mast arms) with lengths greater than 76'-0", an optional field splice will be permitted at the centerline of span to facilitate hauling operations.
11. NPS = Nominal Pipe Size.
12. R = Radius of 90° elbow.
13. Post type numbers (#) shown in Table A equate to the Roman Numeral post type numbers shown in Tables B and C; some specification of pipe post.
14. For location of optional welded splice in post, see Standard Plan S31.

TABLE B
(See Notes 11 and 12)

POST TYPE No.	PIPE NPS	PIPE THICKNESS	"R" RADIUS
I	20	½"	12'-0"
II	24	½"	
III	24	⅝"	
IV	30	½"	
V	30	⅝"	
VI	30	¾"	

TABLE C

POST TYPE No.	CAMBER SPAN LENGTH	X	Y
II	50'-0" TO 119'-0"	21"	15/16"
II	120'-0" TO 145'-0"	9¾"	5"
III	50'-0" TO 119'-0"	24"	31/32"
III	120'-0" TO 145'-0"	9¾"	5"
IV	50'-0" TO 119'-0"	24"	31/32"
IV	120'-0" TO 145'-0"	9¾"	5"
V	50'-0" TO 119'-0"	24"	31/32"
V	120'-0" TO 145'-0"	9¾"	5"
VI	50'-0" TO 119'-0"	24"	31/32"
VI	120'-0" TO 145'-0"	9¾"	5"

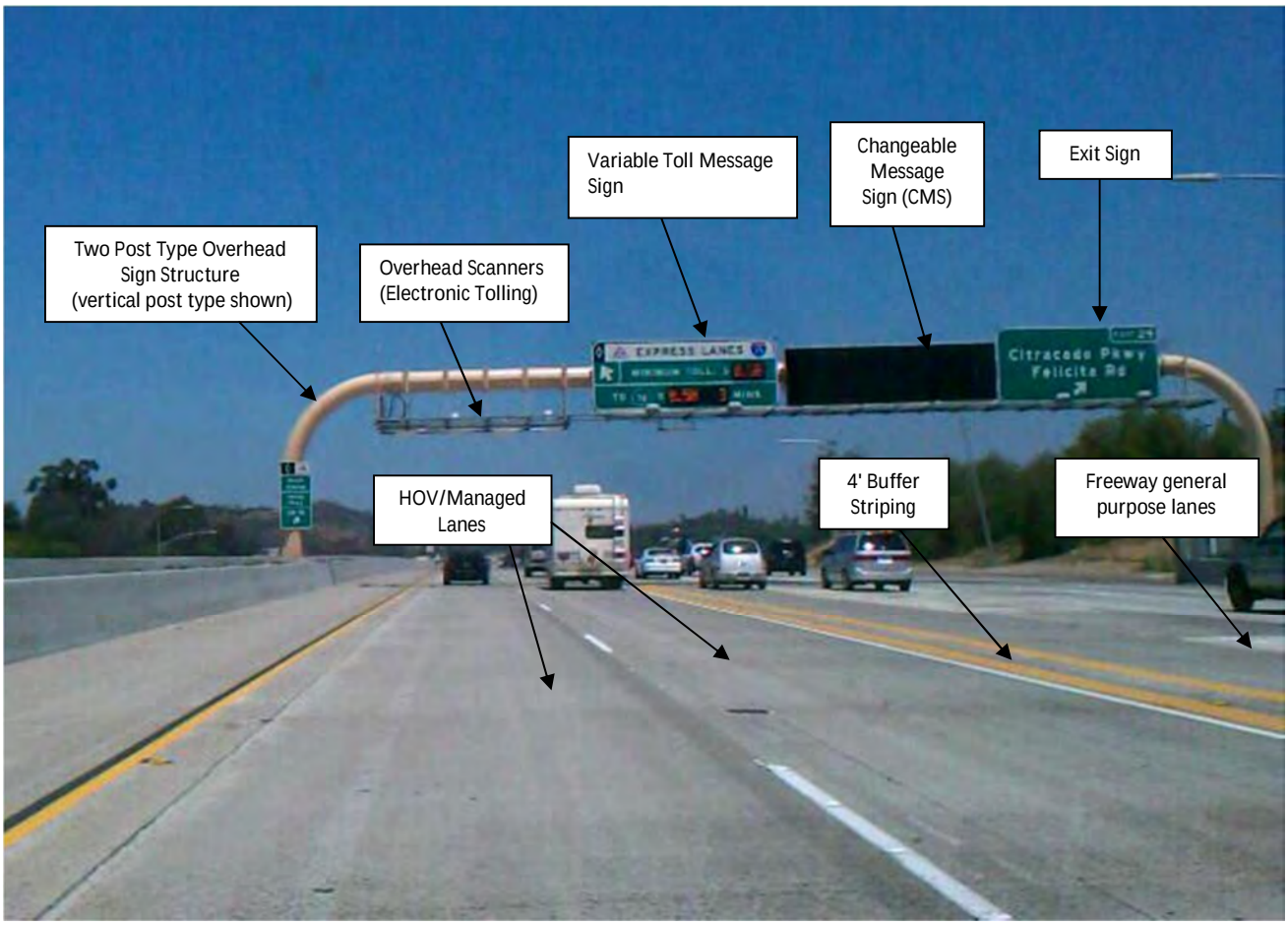
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGNS-TUBULAR TWO POST TYPE LAYOUT AND PIPE SELECTION

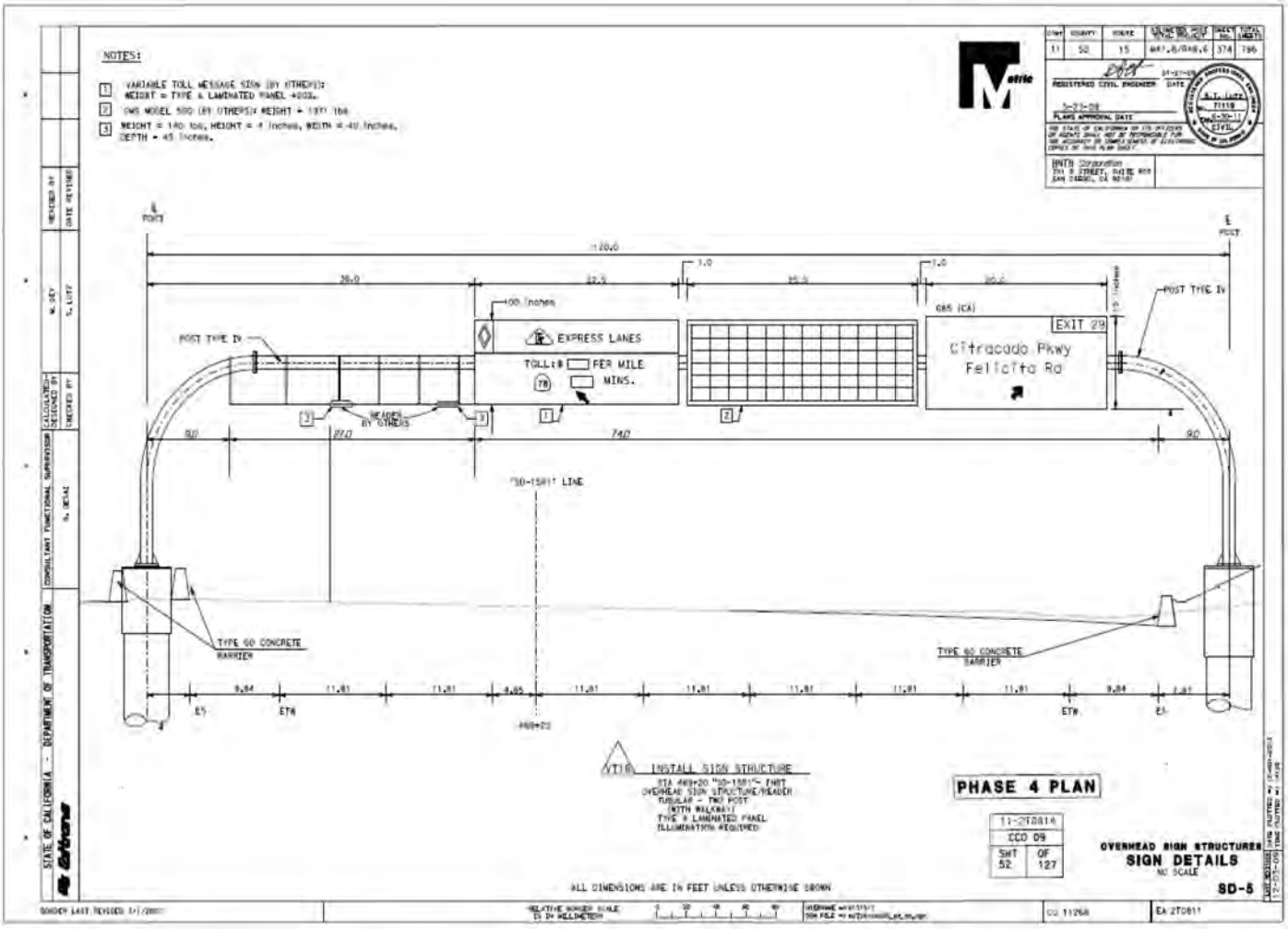
NO SCALE

S32

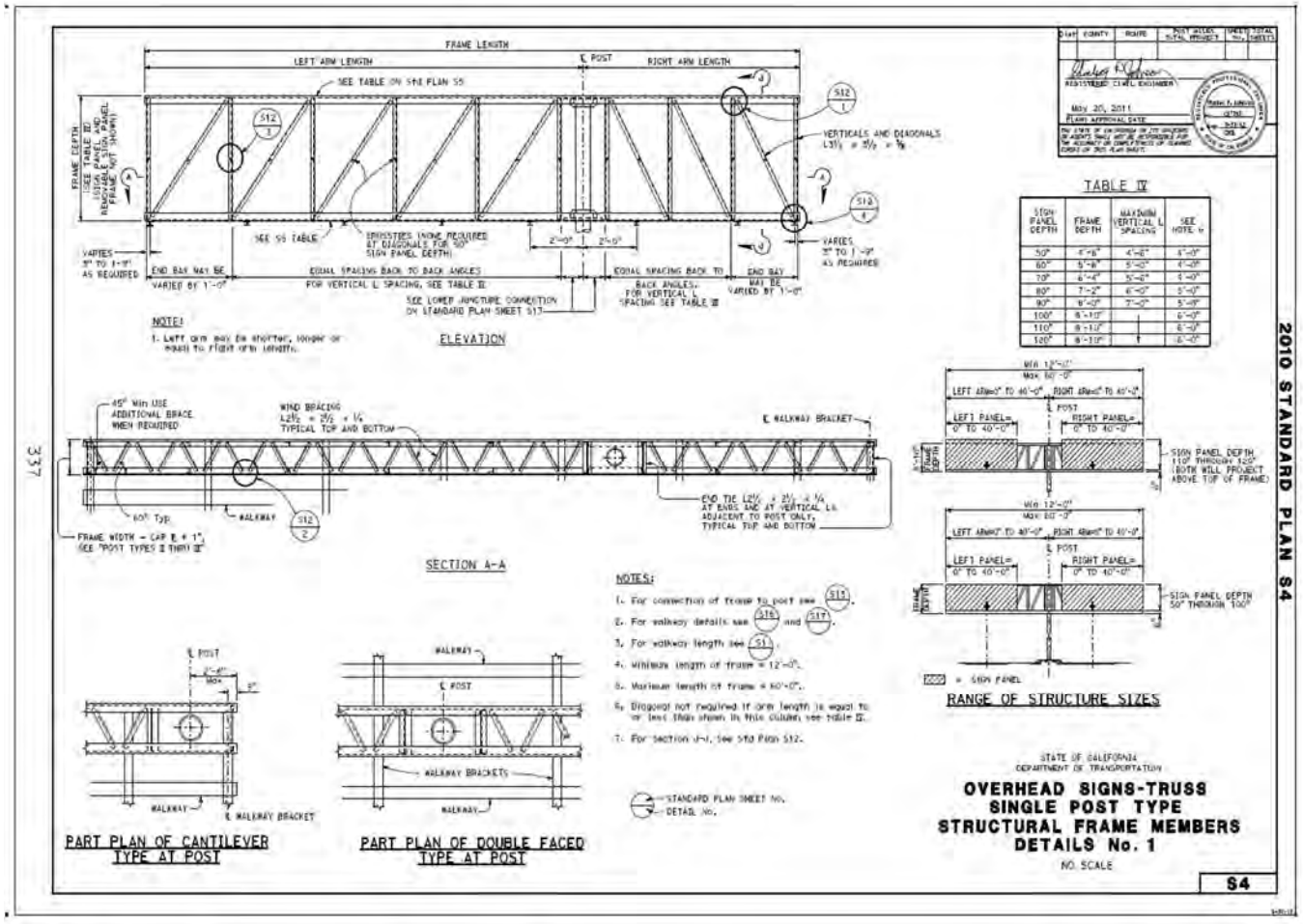
7. Photo - Two post type tubular overhead sign along I-15 freeway. This sign structure includes overhead scanners, tolling sign, CMS along with the corresponding exit sign. The lane configuration shown in this photo is similar to the proposed lane configuration for the I-5 North Coast Corridor Project.



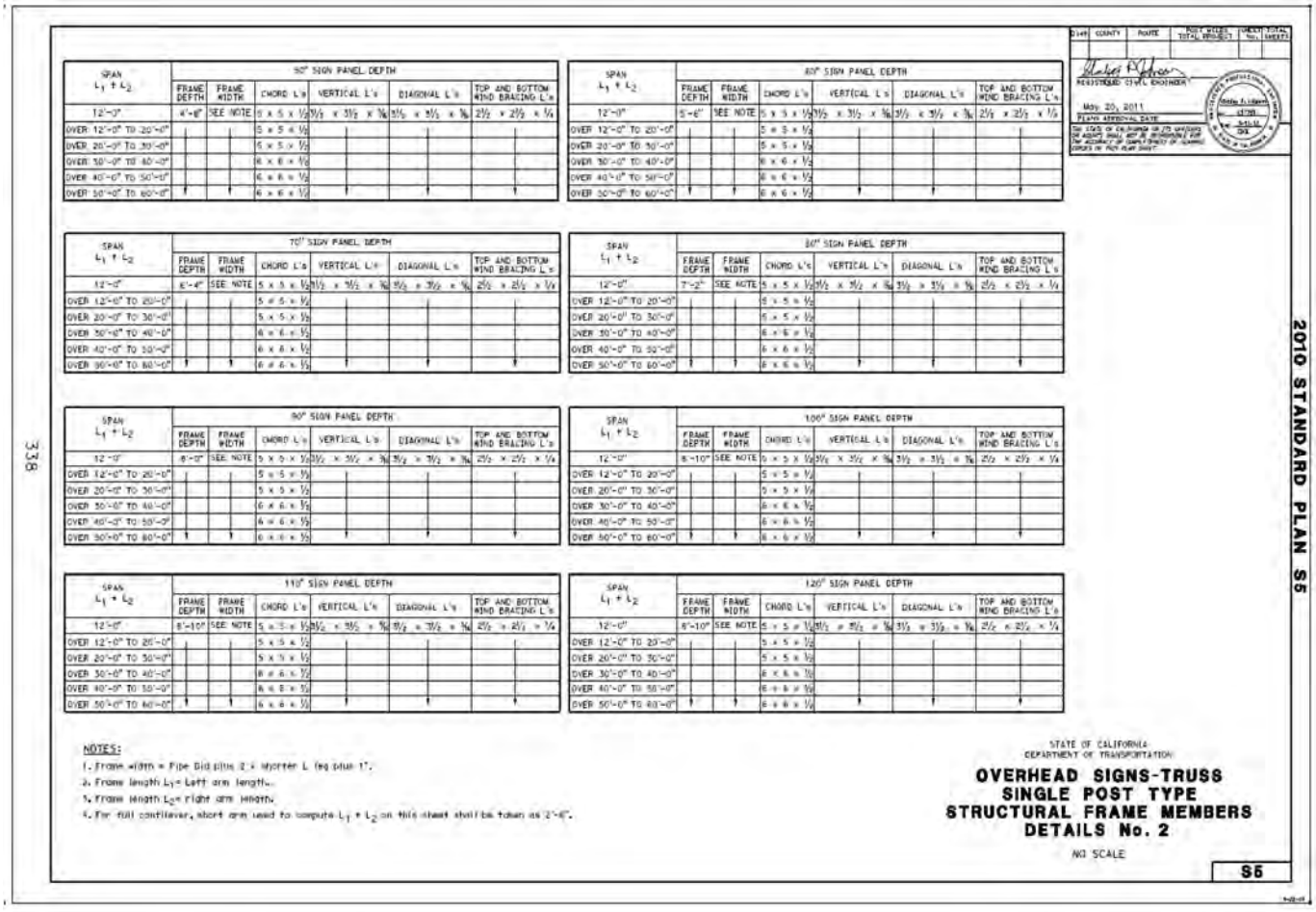
8. Plan showing details and dimensions for the same sign structure shown on the photo above



9. Overhead Sign Truss - Single Post Type. Truss frame length, which is the sum of the left and right arm lengths of the sign structure, range from a minimum 12 feet to a maximum of 60 feet. Standard Plan S4 show details for the placement of sign panels on the sign structure (left and right sides) as well as minimum and maximum length of the panels (0 feet and 40 feet, respectively). Table IV of Standard Plan S4 show truss frame depth and maximum vertical spacing, L, as a function of sign panel depth (ranges from 50 inches to 120 inches).



10. Standard Plan S5 outline details as to the structural connection and spacing of vertical, horizontal and diagonal elements of the truss as a function of frame length and sign panel depth.



SPAN $L_1 + L_2$	50" SIGN PANEL DEPTH					
	FRAME DEPTH	FRAME WIDTH	CHORD L's	VERTICAL L's	DIAGONAL L's	TOP AND BOTTOM WIND BRACING L's
12'-0"	4'-8"	SEE NOTE	5 x 5 x ½	3½ x 3½ x 5/16	3½ x 3½ x 5/16	2½ x 2½ x ¼
OVER 12'-0" TO 20'-0"			5 x 5 x ½			
OVER 20'-0" TO 30'-0"			5 x 5 x ½			
OVER 30'-0" TO 40'-0"			6 x 6 x ½			
OVER 40'-0" TO 50'-0"			6 x 6 x ½			
OVER 50'-0" TO 60'-0"	↑	↑	6 x 6 x ½	↑	↑	↑

SPAN $L_1 + L_2$	60" SIGN PANEL DEPTH					
	FRAME DEPTH	FRAME WIDTH	CHORD L's	VERTICAL L's	DIAGONAL L's	TOP AND BOTTOM WIND BRACING L's
12'-0"	5'-6"	SEE NOTE	5 x 5 x ½	3½ x 3½ x 5/16	3½ x 3½ x 5/16	2½ x 2½ x ¼
OVER 12'-0" TO 20'-0"			5 x 5 x ½			
OVER 20'-0" TO 30'-0"			5 x 5 x ½			
OVER 30'-0" TO 40'-0"			6 x 6 x ½			
OVER 40'-0" TO 50'-0"			6 x 6 x ½			
OVER 50'-0" TO 60'-0"	↑	↑	6 x 6 x ½	↑	↑	↑

SPAN $L_1 + L_2$	70" SIGN PANEL DEPTH					
	FRAME DEPTH	FRAME WIDTH	CHORD L's	VERTICAL L's	DIAGONAL L's	TOP AND BOTTOM WIND BRACING L's
12'-0"	6'-4"	SEE NOTE	5 x 5 x ½	3½ x 3½ x 5/16	3½ x 3½ x 5/16	2½ x 2½ x ¼
OVER 12'-0" TO 20'-0"			5 x 5 x ½			
OVER 20'-0" TO 30'-0"			5 x 5 x ½			
OVER 30'-0" TO 40'-0"			6 x 6 x ½			
OVER 40'-0" TO 50'-0"			6 x 6 x ½			
OVER 50'-0" TO 60'-0"	↑	↑	6 x 6 x ½	↑	↑	↑

SPAN $L_1 + L_2$	80" SIGN PANEL DEPTH					
	FRAME DEPTH	FRAME WIDTH	CHORD L's	VERTICAL L's	DIAGONAL L's	TOP AND BOTTOM WIND BRACING L's
12'-0"	7'-2"	SEE NOTE	5 x 5 x ½	3½ x 3½ x 5/16	3½ x 3½ x 5/16	2½ x 2½ x ¼
OVER 12'-0" TO 20'-0"			5 x 5 x ½			
OVER 20'-0" TO 30'-0"			5 x 5 x ½			
OVER 30'-0" TO 40'-0"			6 x 6 x ½			
OVER 40'-0" TO 50'-0"			6 x 6 x ½			
OVER 50'-0" TO 60'-0"	↑	↑	6 x 6 x ½	↑	↑	↑

SPAN $L_1 + L_2$	90" SIGN PANEL DEPTH					
	FRAME DEPTH	FRAME WIDTH	CHORD L's	VERTICAL L's	DIAGONAL L's	TOP AND BOTTOM WIND BRACING L's
12'-0"	8'-0"	SEE NOTE	5 x 5 x ½	3½ x 3½ x 5/16	3½ x 3½ x 5/16	2½ x 2½ x ¼
OVER 12'-0" TO 20'-0"			5 x 5 x ½			
OVER 20'-0" TO 30'-0"			5 x 5 x ½			
OVER 30'-0" TO 40'-0"			6 x 6 x ½			
OVER 40'-0" TO 50'-0"			6 x 6 x ½			
OVER 50'-0" TO 60'-0"	↑	↑	6 x 6 x ½	↑	↑	↑

SPAN $L_1 + L_2$	100" SIGN PANEL DEPTH					
	FRAME DEPTH	FRAME WIDTH	CHORD L's	VERTICAL L's	DIAGONAL L's	TOP AND BOTTOM WIND BRACING L's
12'-0"	8'-10"	SEE NOTE	5 x 5 x ½	3½ x 3½ x 5/16	3½ x 3½ x 5/16	2½ x 2½ x ¼
OVER 12'-0" TO 20'-0"			5 x 5 x ½			
OVER 20'-0" TO 30'-0"			5 x 5 x ½			
OVER 30'-0" TO 40'-0"			6 x 6 x ½			
OVER 40'-0" TO 50'-0"			6 x 6 x ½			
OVER 50'-0" TO 60'-0"	↑	↑	6 x 6 x ½	↑	↑	↑

SPAN $L_1 + L_2$	110" SIGN PANEL DEPTH					
	FRAME DEPTH	FRAME WIDTH	CHORD L's	VERTICAL L's	DIAGONAL L's	TOP AND BOTTOM WIND BRACING L's
12'-0"	8'-10"	SEE NOTE	5 x 5 x ½	3½ x 3½ x 5/16	3½ x 3½ x 5/16	2½ x 2½ x ¼
OVER 12'-0" TO 20'-0"			5 x 5 x ½			
OVER 20'-0" TO 30'-0"			5 x 5 x ½			
OVER 30'-0" TO 40'-0"			6 x 6 x ½			
OVER 40'-0" TO 50'-0"			6 x 6 x ½			
OVER 50'-0" TO 60'-0"	↑	↑	6 x 6 x ½	↑	↑	↑

SPAN $L_1 + L_2$	120" SIGN PANEL DEPTH					
	FRAME DEPTH	FRAME WIDTH	CHORD L's	VERTICAL L's	DIAGONAL L's	TOP AND BOTTOM WIND BRACING L's
12'-0"	8'-10"	SEE NOTE	5 x 5 x ½	3½ x 3½ x 5/16	3½ x 3½ x 5/16	2½ x 2½ x ¼
OVER 12'-0" TO 20'-0"			5 x 5 x ½			
OVER 20'-0" TO 30'-0"			5 x 5 x ½			
OVER 30'-0" TO 40'-0"			6 x 6 x ½			
OVER 40'-0" TO 50'-0"			6 x 6 x ½			
OVER 50'-0" TO 60'-0"	↑	↑	6 x 6 x ½	↑	↑	↑

NOTES:

1. Frame width = Pipe O.D. plus 2 x thickness of chord L (eg plus 1").
2. Frame length L_1 = Left arm length.
3. Frame length L_2 = Right arm length.
4. For full cantilever, short arm used to compute $L_1 + L_2$ on this sheet shall be taken as 2'-6".

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

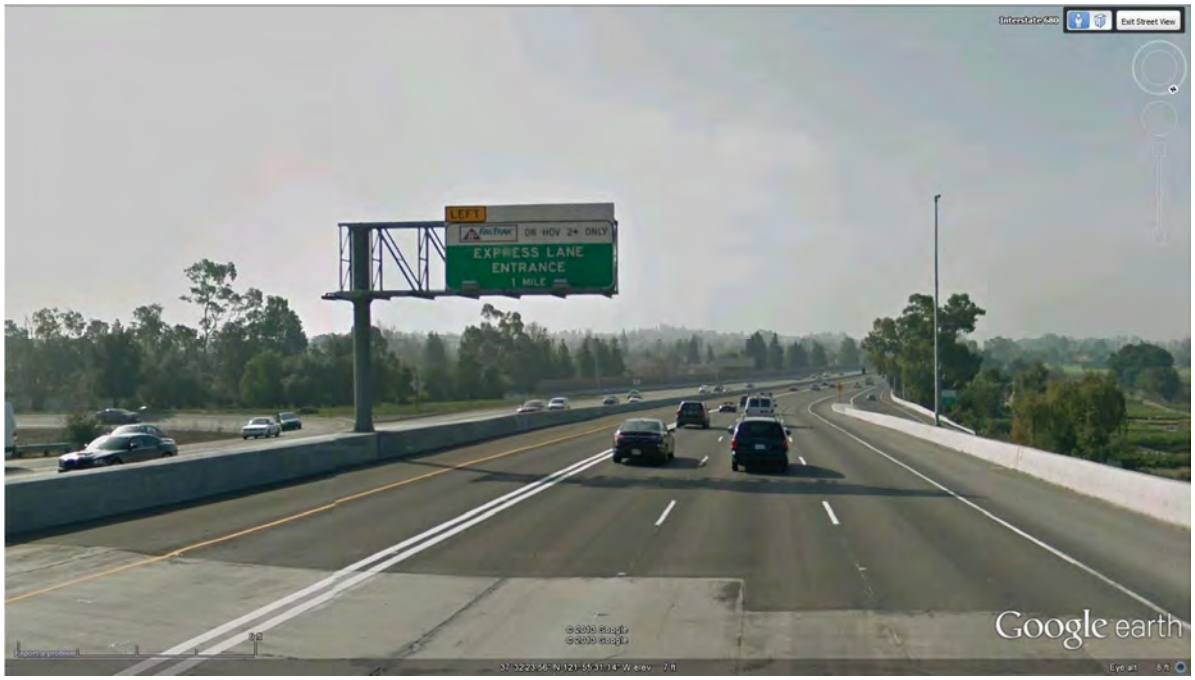
OVERHEAD SIGNS-TRUSS
SINGLE POST TYPE
STRUCTURAL FRAME MEMBERS
DETAILS No. 2

NO SCALE

S5

2010 STANDARD PLAN S5

338

11. Photo. Variable Tolling Message Sign and CMS mounted on single post overhead truss sign structure along I-15 freeway in San Diego.

11. Photo. Express Lane Entrance advance warning sign mounted on single post overhead truss sign structure along I-680 in Milpitas, CA.