

Environmental Impact Report No. 589
The Ranch Plan
Traffic/Circulation Improvement Mitigation Measures

Prepared For:

COUNTY OF ORANGE
Planning and Development Services Department
Environmental Planning Services Division
300 North Flower Street
Santa Ana, California 92702-4048

Contact: Chuck Shoemaker

THE RANCH PLAN PROGRAM EIR #589
TRAFFIC/CIRCULATION IMPROVEMENT MITIGATION MEASURES

The Ranch Plan Program EIR traffic analysis assesses the traffic impacts and mitigation of the proposed Ranch Plan development on the existing and proposed circulation system. Attached are locations identified as being impacted by traffic generated from the proposed Ranch Plan project and the cumulative growth in traffic in the Year 2010 and 2025 settings. Also included are preliminary assessments of the extent of roadway improvements and associated potential improvements and impacts that may be required to mitigate at the milestone timeframes (2010 and 2025).

The preliminary assessment of impacts associated with these improvements is based upon several considerations including: 1) concepts developed as part of the Ranch Plan analysis (concepts developed by the project applicant, the Rancho Mission Viejo Company); 2) various studies commissioned by local jurisdictions and agencies; 3) information generated from discussions with affected jurisdictions and agencies; and 4) a field review of the locations.

The purpose of this effort is to examine those locations and to identify potential impacts resulting from conceptual improvements at those locations. Project-specific improvements that would be implemented as a part of the proposed Ranch Plan project are addressed in the Ranch Plan Program EIR. There are other improvements for which the proposed project would be responsible for a fair share contribution. These improvements have either been adopted by the affected jurisdiction and subject to environmental review or are under study and would require separate environmental review.

**RMV Ranch Plan Amendment Analysis
Circulation System Impact Mitigation Program**

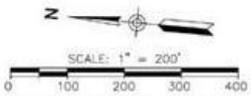
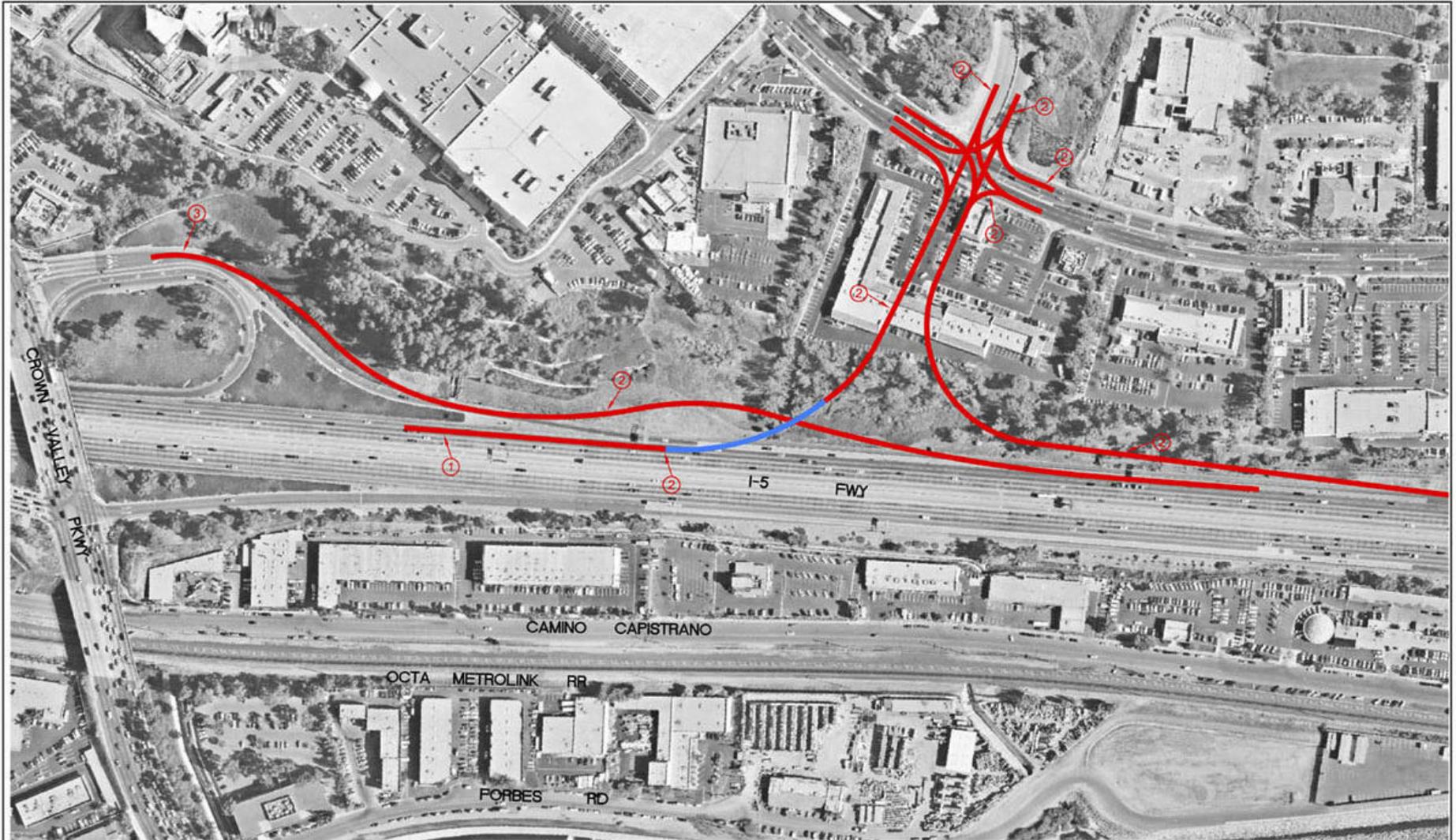
No.	Location	Jurisdiction	Scenario	Time Frame	Proposed Mitigation	Drawing Status	Right of Way	Bldgs / Structures	Utilities	Retaining Walls	Mod Traffic Signals	Roadway Improvements	Landscaping	Restriping	Intersection Improvements
FREEWAY INTERCHANGES															
1	Marguerite Pkwy-Saddleback College/I-5 Connectors	Caltrans / Mission Viejo	With or Without FTC-S	2025	Construct new connector ramps to and from I-5 north.	Conceptual drawings prepared by RBF (2002)	X	X	X	X	X	X	X	X	X
2	Ortega Hwy/I-5 Interchange	Caltrans / San Juan Capistrano	With or Without FTC-S	2010	Reconstruct interchange: design to be determined by Caltrans/City of San Juan Capistrano.	PSR in Process (mid 2004)	X	X	X	X	X	X	X	X	X
FREEWAY RAMP															
3	I-5 southbound off-ramp at Oso Pkwy	Caltrans / OCTA	With or Without FTC-S	2010	Add second drop lane from I-5 to the off-ramp.	Caltrans EA 0E0700			X	X	X	X	X	X	X
4	I-5 southbound off-ramp at Crown Valley Pkwy	Caltrans / Laguna Niguel	With or Without FTC-S	2010	Add second auxiliary lane from I-5 to the off-ramp.	Caltrans EA 0F820K	*		X	X	X	X	X	X	X
ARTERIAL ROADS															
5	La Pata Ave extension	County / San Clemente / San Juan Capistrano	With or Without FTC-S	2010	Extend as four-lane primary arterial from current terminus south of Ortega Hwy to existing terminus point in San Clemente.	Project Report / EIR in Process	X		X	X	X	X	X	X	X
6	New Ortega Hwy (Antonio Pkwy to Old Ortega Hwy)	County	With or Without FTC-S	2010 2025	Construct four/six lane roadway into the project site. Construct four/six lane roadway to existing Ortega.	Proposed Project see EIR	Proposed Project See EIR								
7	Antonio Pkwy widening (South end Ladera Ranch to Ortega)	County	With or Without FTC-S	2010	Widen to six lane roadway	Proposed Project see EIR	Proposed Project See EIR								
8	Ortega Hwy (I-5 to Antonio Pkwy)	San Juan Capistrano/ County/ Caltrans	With or Without FTC-S	2025	Traffic calming, roadway widening and intersection improvements.	Caltrans EA 086900	X		X	X	X	X	X	X	X
9	Oso Pkwy (east of Las Flores to SR-241)	County/ TCA	With or Without FTC-S	2025	Roadway widening in existing graded R/W	None			X		X	X	X	X	X
10	Oso Pkwy (I-5 to Marguerite Pkwy)	Mission Viejo	With or Without FTC-S	2025	Roadway widening.	Concept/RMV	X	*	X	X	X	X	X	X	X
INTERSECTIONS															
11	4. Felipe Rd & Oso Pkwy	Mission Viejo	With or Without FTC-S	2010	Add 2nd southbound left turn lane.	Concept/RMV	X		X	X	X	X	X	X	X
12	5. Antonio Pkwy & Oso Pkwy	County	With or without FTC-S	2010	Add 4th southbound thru-lane. Add 3rd northbound left turn lane. Allow right turn overlap for northbound right. Allow right turn overlap for eastbound right.	Concept/RMV	X		X	X	X	X	X	X	X
			Without FTC-S	2025	Add 4th eastbound thru-lane.										
13	11. Marguerite Pkwy & Crown Valley Pkwy	Mission Viejo	With or Without FTC-S	2010	Restripe southbound movements from two thru-lanes and separate right to dedicated thru-lane, shared thru/right lane and separate right turn lane. Add defacto westbound right turn lane.	Concept/RMV	X		X	X	X	X	X	X	X
14	12. Antonio Pkwy & Crown Valley Pkwy	County	With or Without FTC-S	2010	Add 3rd northbound left turn lane. Add 3rd eastbound left turn lane. Restripe eastbound movements from two thru-lanes and separate right to single thru-lane and double right turns.	Concept/RMV	X		X	X	X	X	X	X	X
15	27. Rancho Viejo Rd & Ortega Hwy	San Juan Capistrano	With or Without FTC-S	2025	Convert northbound shared left/thru-lane to 2nd left turn lane. Add separate northbound right turn lane.	Concept/RMV	X		X	*	X	X	X	X	X
16	28. La Novia Ave & Ortega Hwy	San Juan Capistrano	Without FTC-S	2010	Add 2nd westbound left turn lane.	Concept/RMV	X		X	*	X	X	X	X	X
17	29. Antonio Pkwy-La Pata Ave & Ortega Hwy	County	With or without FTC-S	2010	Add southbound free right turn lane. 2nd northbound thru-lane	Concept/RMV	X		X	*	X	X	X	X	X
			Without FTC-S	2025	Add 2nd northbound left turn lane. Add 3rd northbound thru-lane. Add 3rd southbound thru-lane.										

**RMV Ranch Plan Amendment Analysis
Circulation System Impact Mitigation Program**

No.	Location	Jurisdiction	Scenario	Time Frame	Proposed Mitigation	Drawing Status	Right of Way	Bldgs / Structures	Utilities	Retaining Walls	Mod Traffic Signals	Roadway Improvements	Landscaping	Restriping	Intersection Improvements
18	30. Camino Capistrano & Del Obispo St	San Juan Capistrano	With or Without FTC-S	2010	Add 2nd westbound left turn lane. Restripe separate southbound right turn to shared thru/right lane.	None	X	X	X	X	X	X	X	X	X
				2025	Add 2nd eastbound left turn lane.										
19	32. Valle Rd & San Juan Creek Rd	San Juan Capistrano/Caltrans	With or Without FTC-S	2010	Add 2nd westbound thru-lane.	None	X	X	X	X	X	X	X	X	X
20	37. Avd La Pata & Avd Vista Hermosa	San Clemente	Without FTC-S	2010	Add 2nd eastbound left turn lane.	Concept/RMV	X		X		X	X	X	X	X
				2025	Add southbound free right turn lane. Add separate westbound right turn lane. Add 3rd eastbound left turn lane.										
21	39. Cm Vera Cruz & Avd Vista Hermosa	San Clemente	With or Without FTC-S	2025	Add 2nd southbound left turn lane. Add separate westbound right turn lane.	Concept/RMV	X		X		X	X	X	X	X
22	43. Antonio Pkwy & New Ortega Hwy	County	With or Without FTC-S	2010	Construct new at-grade or grade separated intersection.	Concept/RMV	Proposed Project See EIR								
23	56. I-5 SB southbound ramps & Avd Pico	San Clemente	Without FTC-S	2010	Convert 2nd westbound thru-lane to shared 2nd left turn/thru lane.	EA 0E7401	*		X	X	X	X	X	X	X
24	59. SR-241 northbound ramps & Antonio Pkwy	Rancho Santa Margarita / TCA	With or without FTC-S	2010	Restripe westbound movements from three thru-lanes and separate right turn to two thru-lanes, shared thru/right and separate right turn lane.	None		X	*		X	X		X	
				2025	Add 2nd eastbound left turn lane										
25	74. I-5 northbound ramps & Junipero Serra Rd	San Juan Capistrano	With or Without FTC-S	2025	Convert eastbound shared left/thru lane to dedicated left turn lane. Add 2nd eastbound left turn lane.	None		*	X	*	X	X	X	X	X

* Indicates undetermined at this time.

Design Concept E



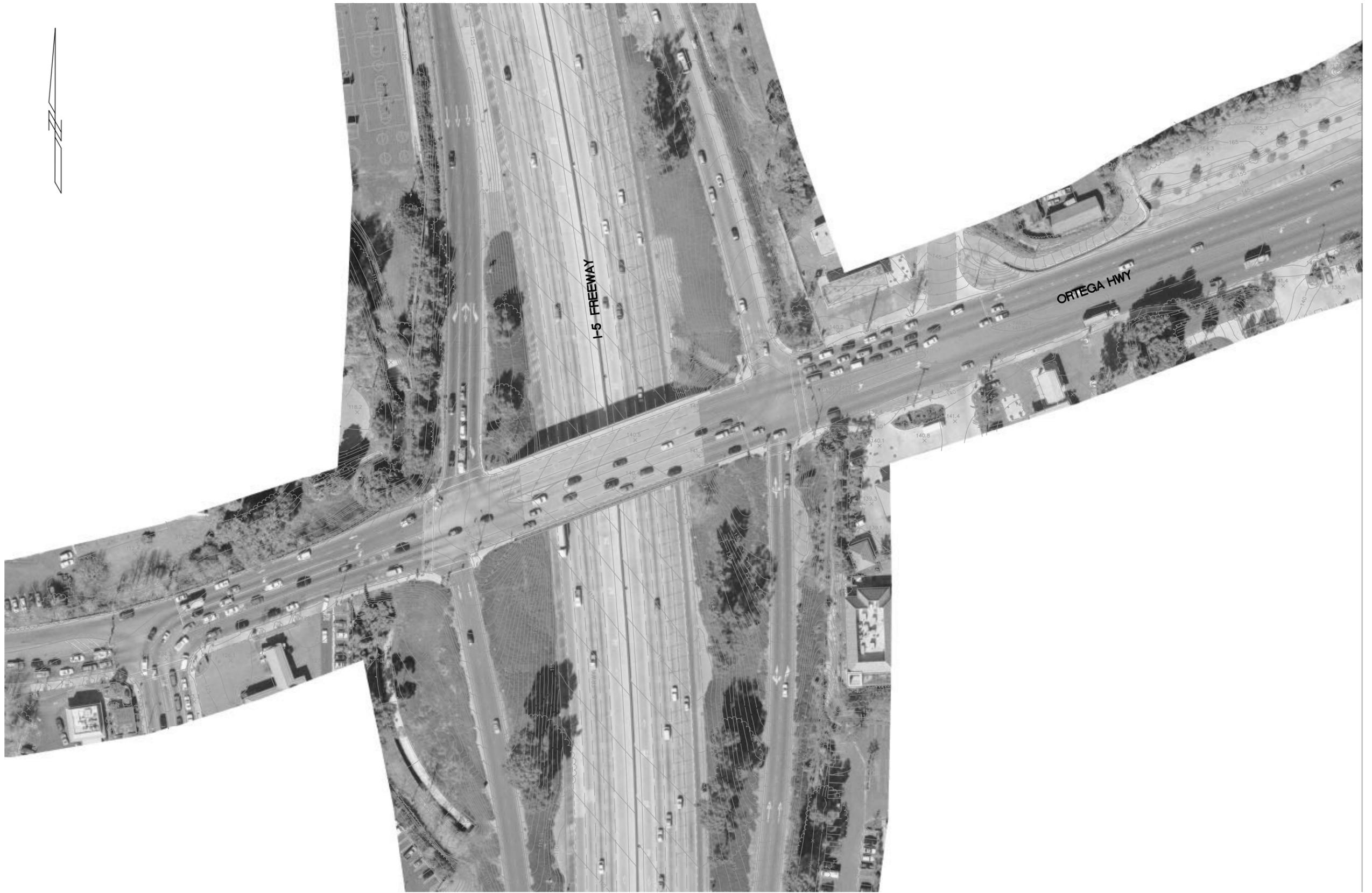
7			
6			
5			
4			
3			
2			
1			
NO.	DATE		REVISIONS

DRAWN BY: P.C. DATE 06/03
 DESIGNED BY: G.W. DATE 06/03
 CHECKED BY: G.W. DATE 06/03



LOCATION 'E'
New NB I-5 Ramp Connections
CITY OF MISSION VIEJO
 PUBLIC WORKS DEPARTMENT

PROJECT NO.
 10101019.001
 SHEET
 OF



2

NOT TO SCALE

ORTEGA HWY/I-5 INTERCHANGE



E 6,130,000 E

3

NOT TO SCALE

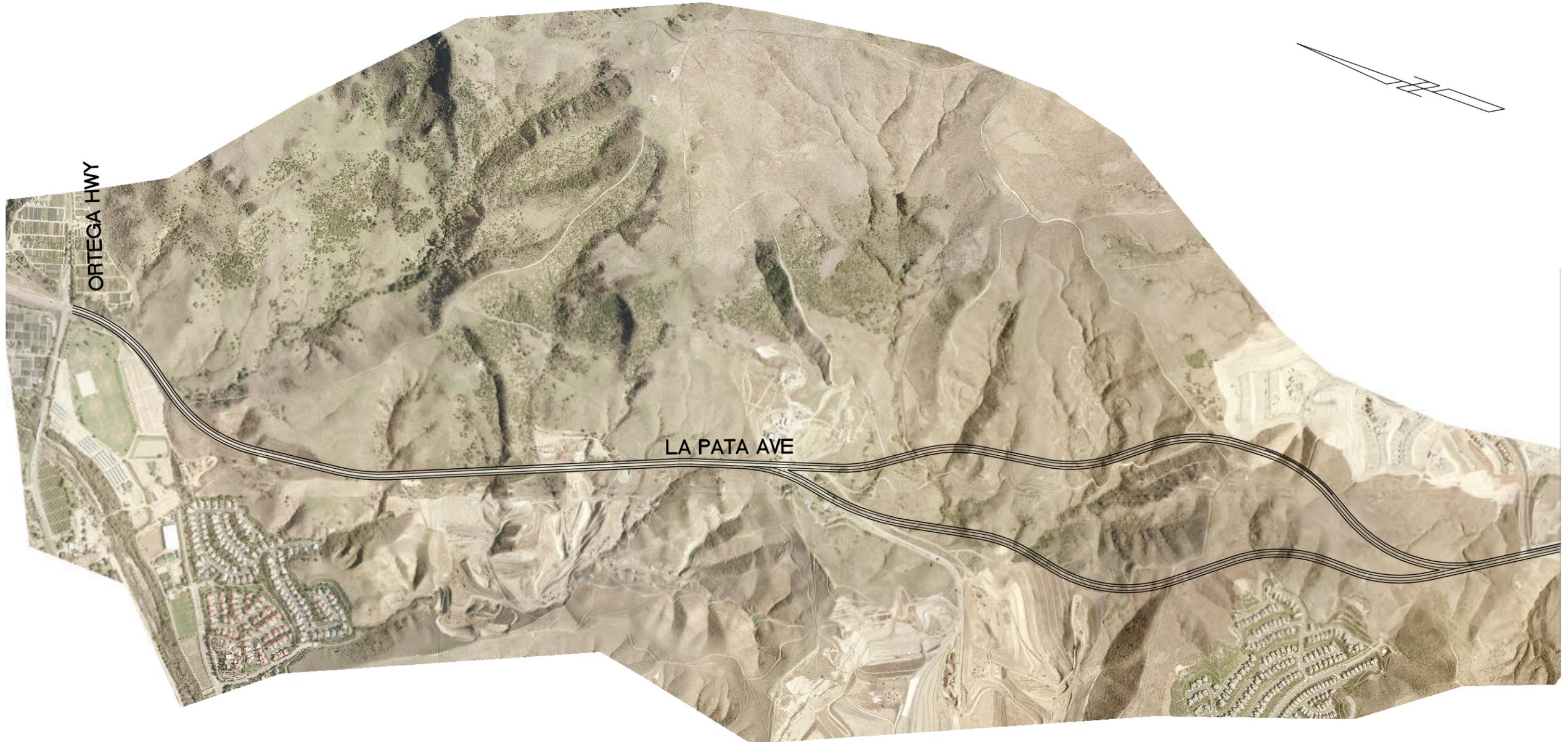
I-5 SOUTHBOUND OFF-RAMP AT OSO PKWY



4

NOT TO SCALE

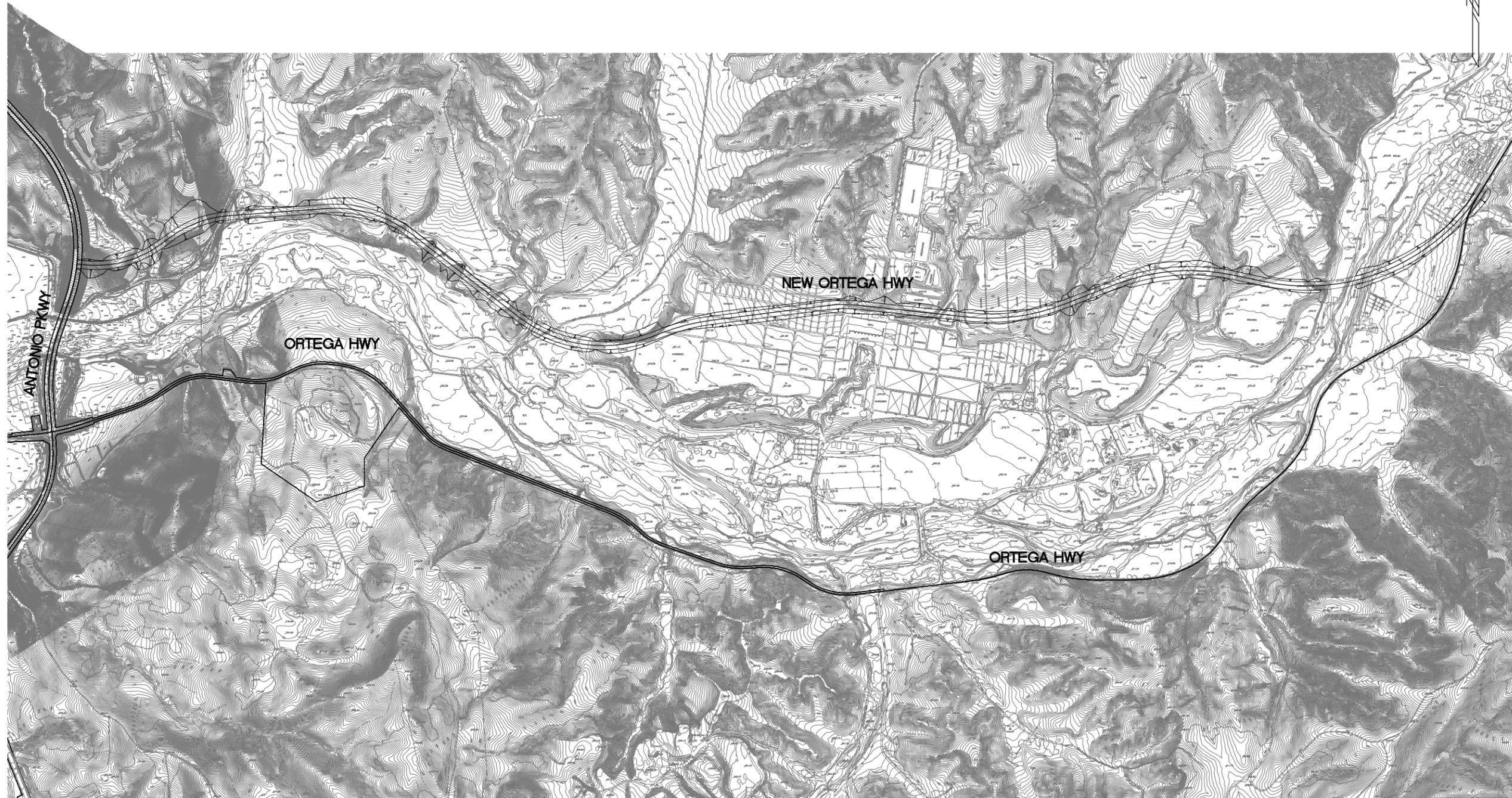
I-5 SOUTHBOUND OFF-RAMP AT CROWN VALLEY PKWY



5

NOT TO SCALE

LA PATA AVE EXTENTION



6

NOT TO SCALE

NEW ORTEGA HWY (ANTONIO PKWY TO OLD ORTEGA HWY)



LADERA RANCH

ANTONIO PKWY

ORTEGA HWY

7

NOT TO SCALE

ANTONIO PKWY WIDING (SOUTH END OF LADERA RANCH TO ORTEGA)



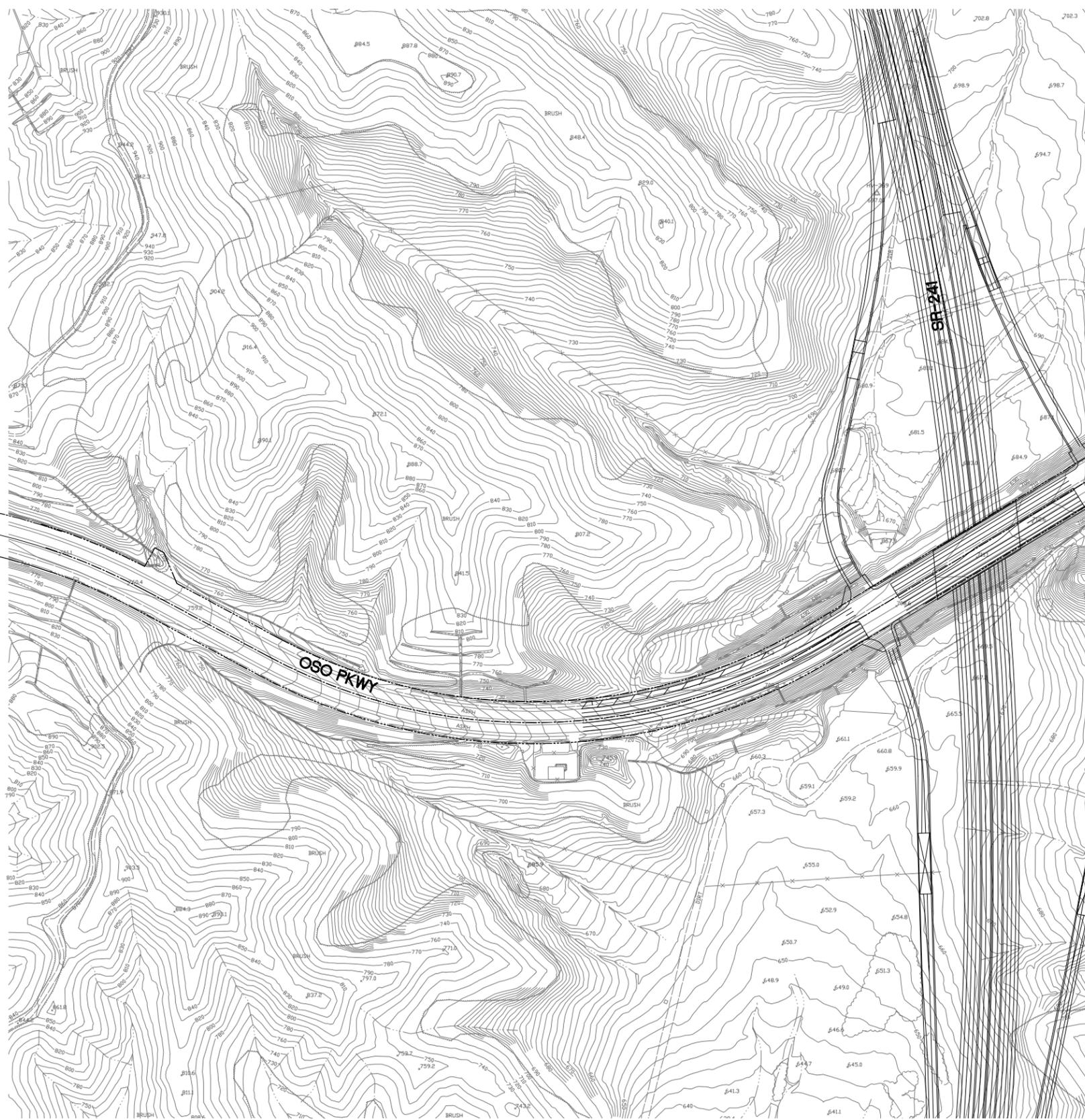
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NOT TO SCALE

ORTEGA HWY (I-5 TO ANTONIO PKWY)



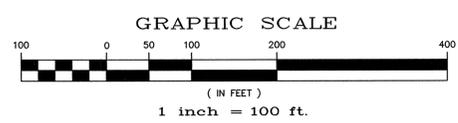
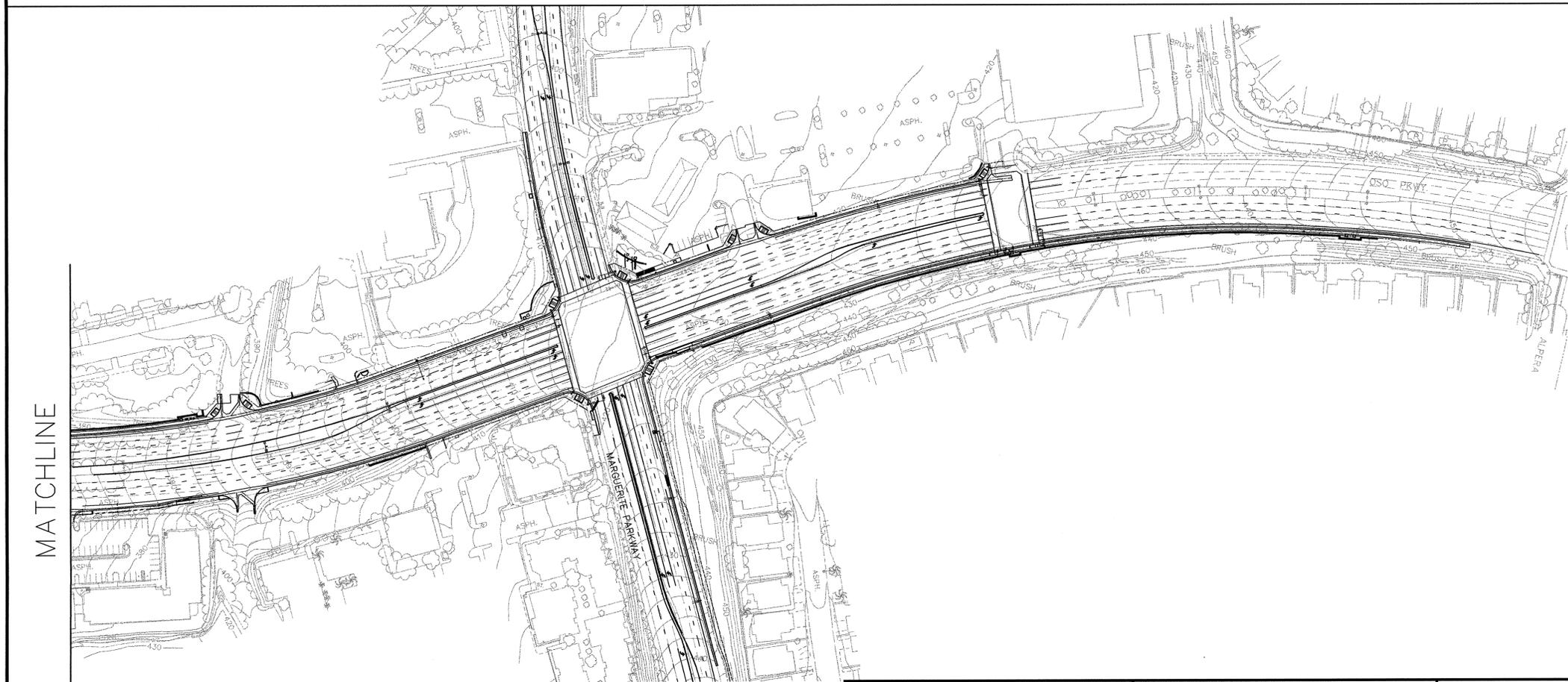
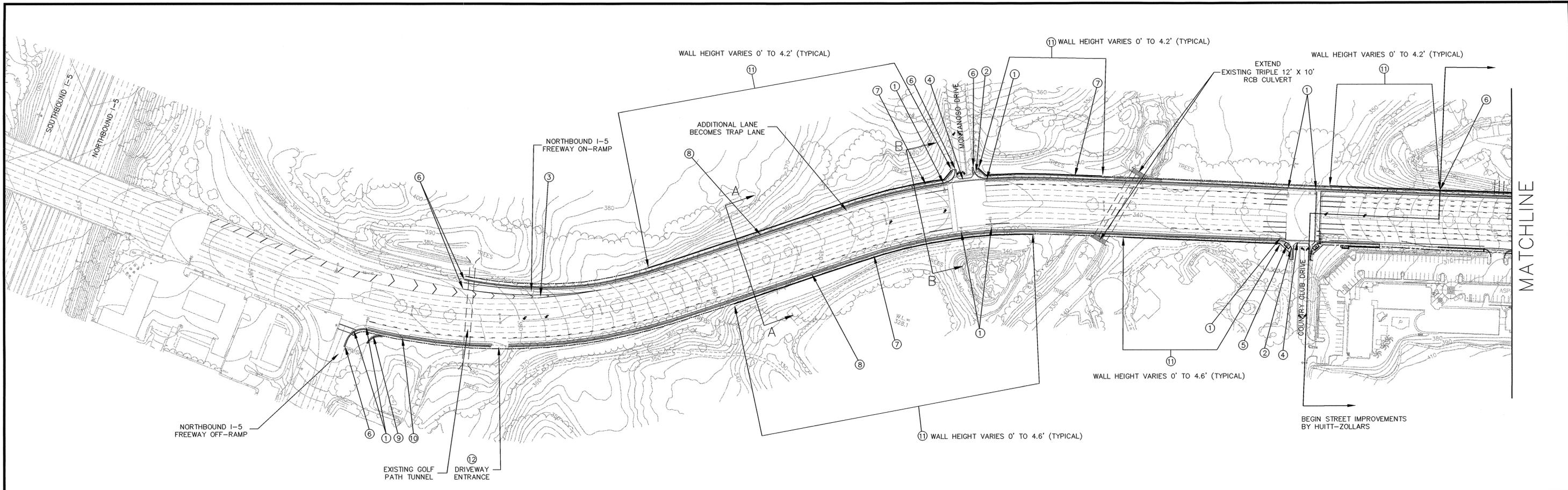
MEANDERING TRAIL



9

NOT TO SCALE

OSO PKWY (EAST OF LAS FLORES TO SR-241)



CONSTRUCTION NOTES

- ① RELOCATE TRAFFIC SIGNAL
- ② RELOCATE STREETLIGHT
- ③ STRIPED GORE AREA
- ④ CROSS GUTTER
- ⑤ ACCESS RAMP
- ⑥ JOIN EXISTING
- ⑦ BUILD SIDEWALK
- ⑧ BUILD CURB AND GUTTER
- ⑨ RELOCATE MASONRY WALL
- ⑩ RELOCATE FENCE
- ⑪ RETAINING WALLS
- ⑫ RECONSTRUCT DRIVEWAY

MATCHLINE

MATCHLINE

PRELIMINARY

AERIAL MAPPING—FEBRUARY 2002

DRAWING DATE

JUNE 17, 2002

REVISIONS			
NO.	DATE	DESCRIPTION	BY

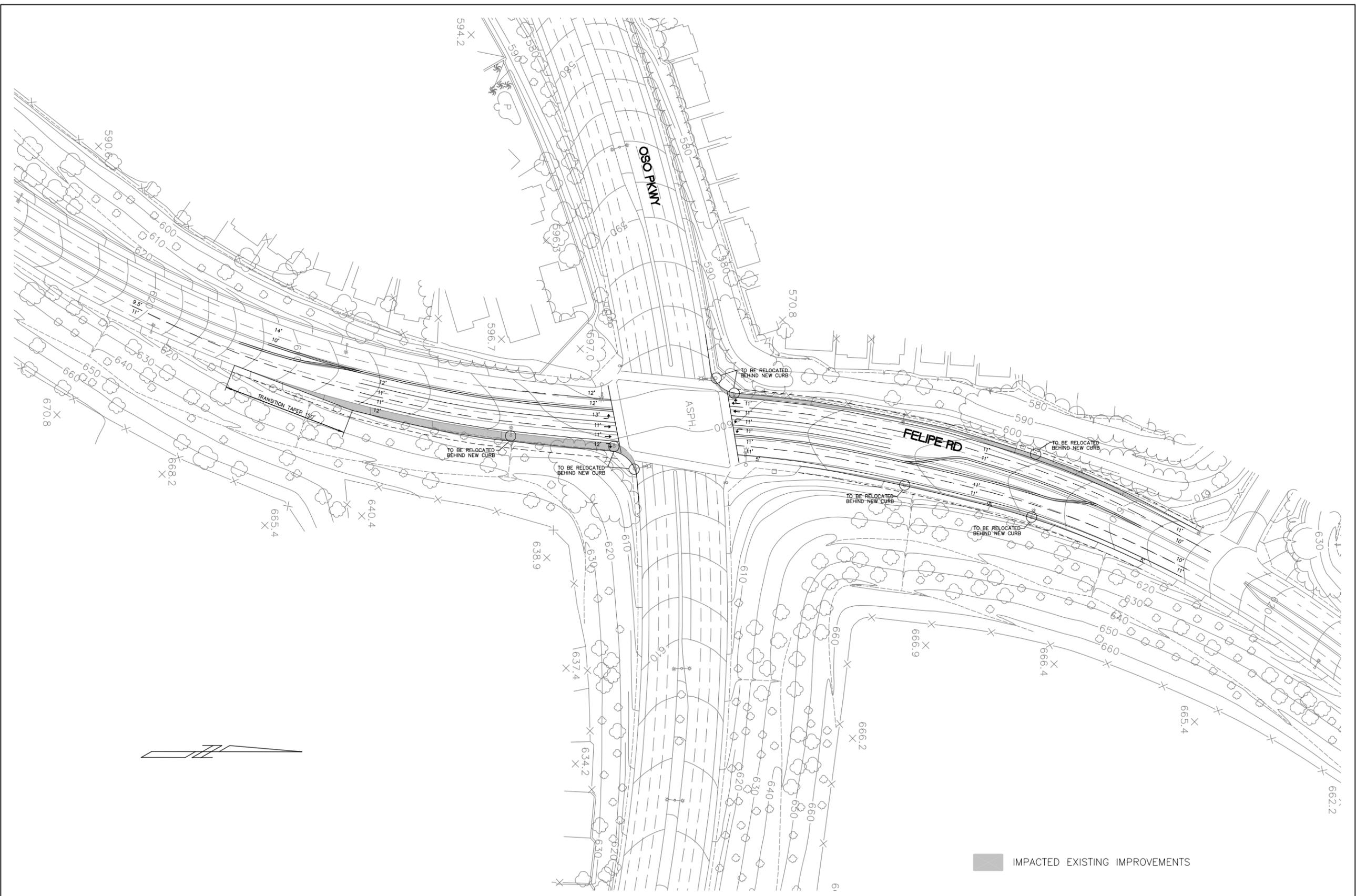
PREPARED BY: **PBS&J**
 18022 Cowan, Suite 100A
 Irvine, California 92614
 Phone: 949/660-8600
 Fax: 949/440-8183

PREPARED FOR: Rancho Mission Viejo
 2881 Ortega Highway
 Post Office Box 9
 San Juan Capistrano, CA 92693
 Phone: (949)240-3363
 Fax: (949)488-2676

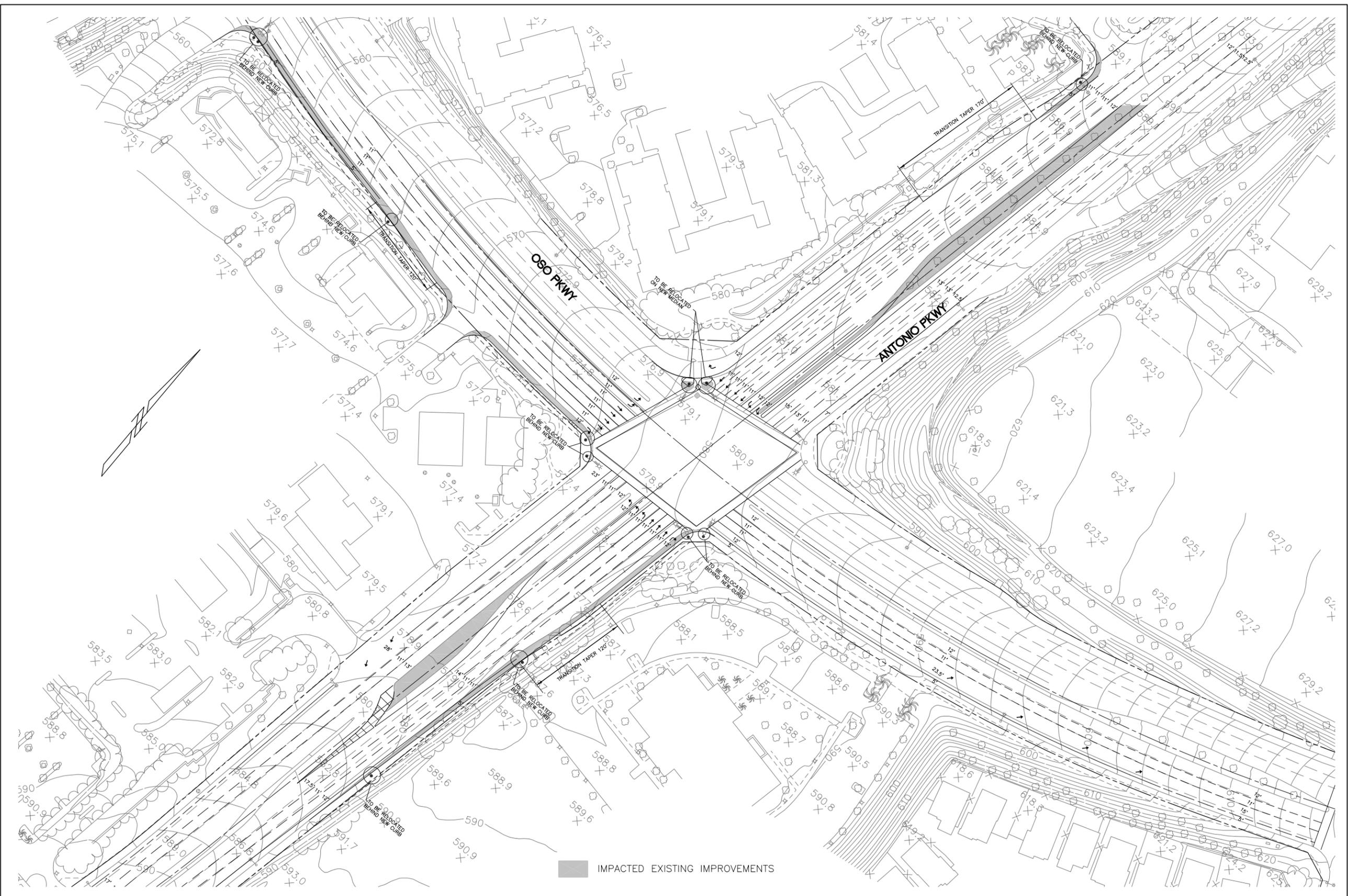
14K MITIGATION PLAN
 OSO PARKWAY WIDENING

DRAWING No.
 SHT. 1 of 2

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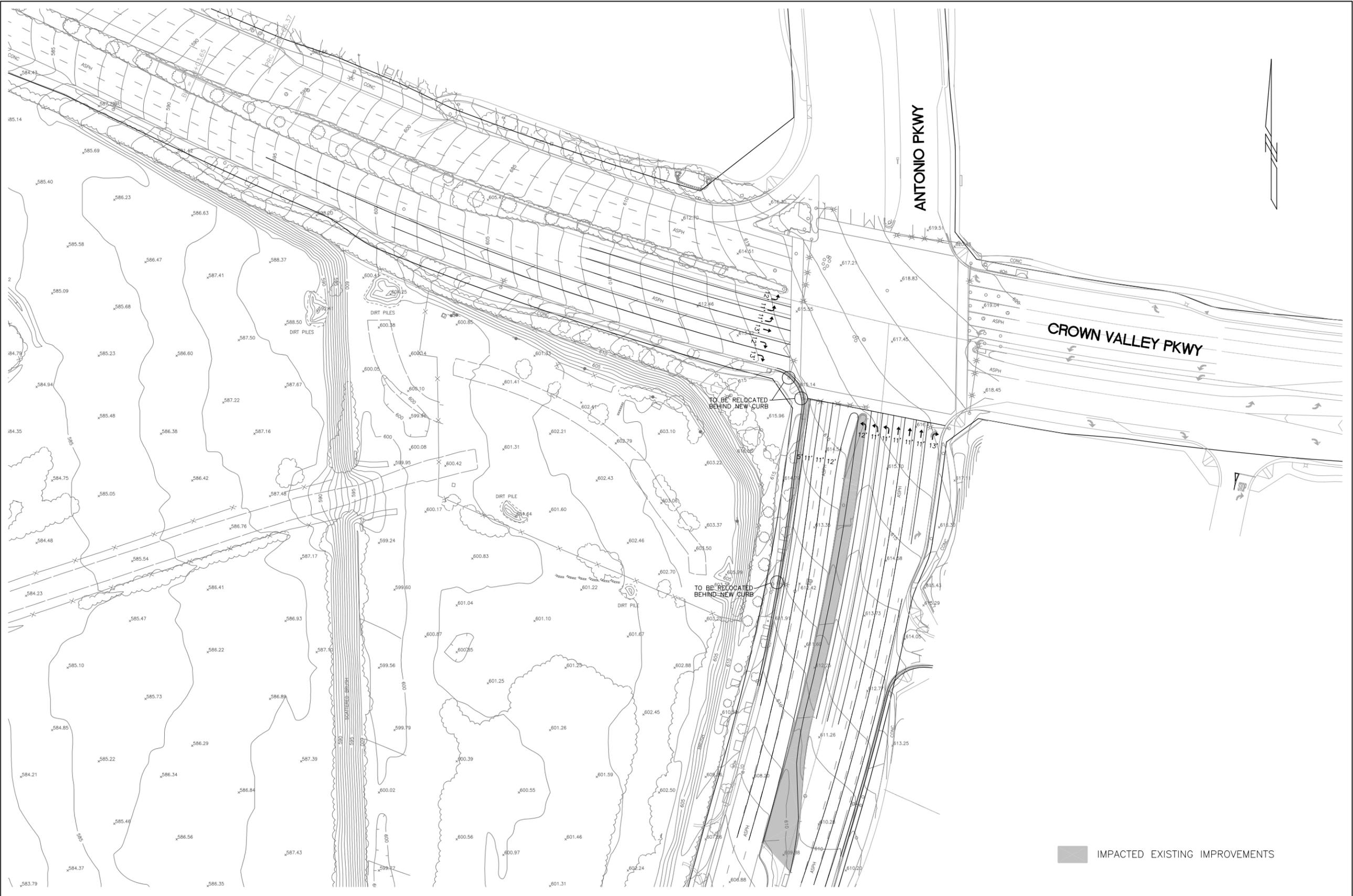


CONCEPTUAL INTERSECTION IMPROVEMENTS
 FELIPE RD AND OSO PKWY



**CONCEPTUAL INTERSECTION IMPROVEMENTS
ANTONIO PKWY AND OSO PKWY**





ANTONIO PKWY

CROWN VALLEY PKWY

TO BE RELOCATED
BEHIND NEW CURB

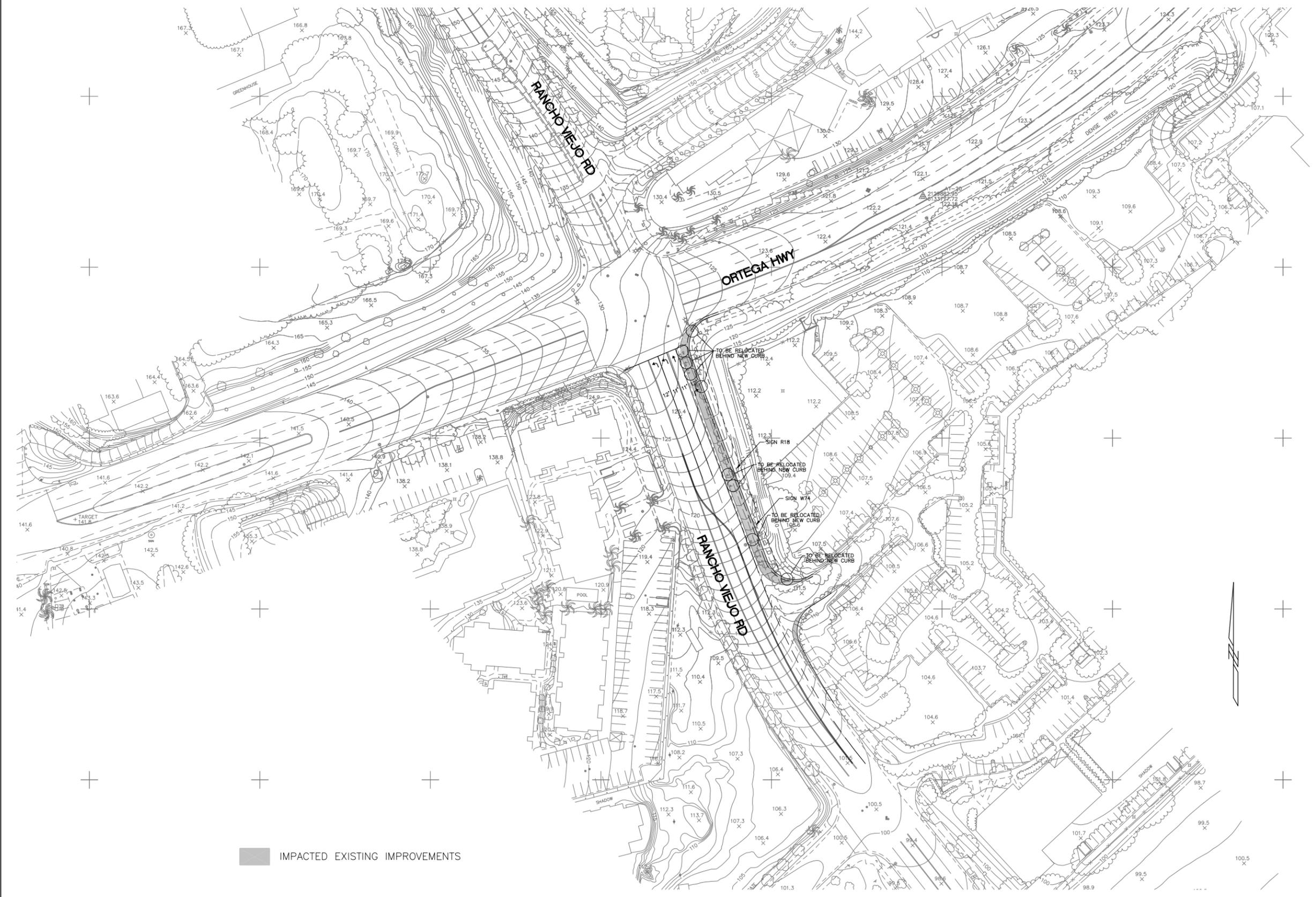
TO BE RELOCATED
BEHIND NEW CURB

IMPACTED EXISTING IMPROVEMENTS

14

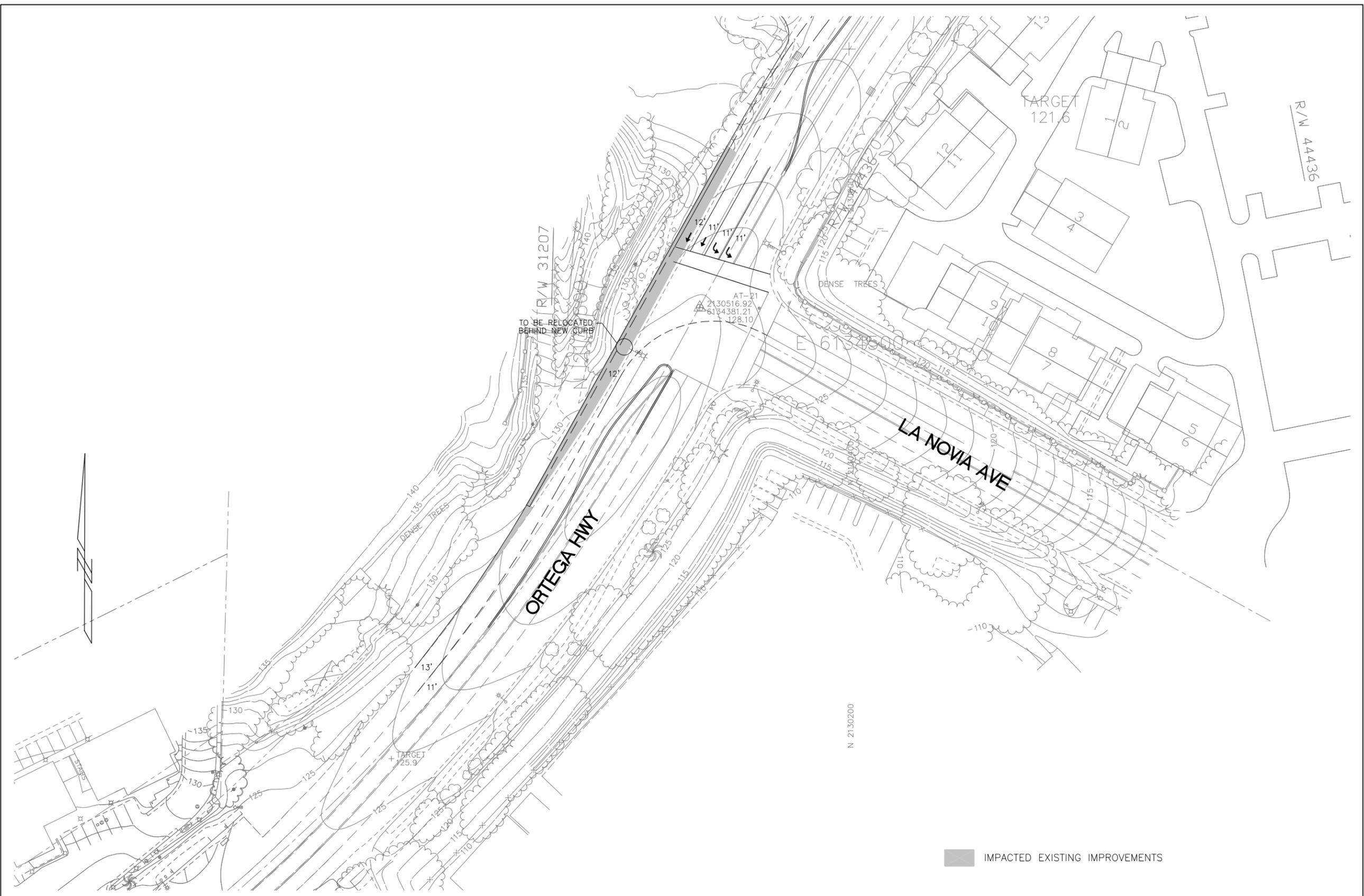
NOT TO SCALE

CONCEPTUAL INTERSECTION IMPROVEMENTS
ANTONIO PKWY AND CROWN VALLEY PKWY

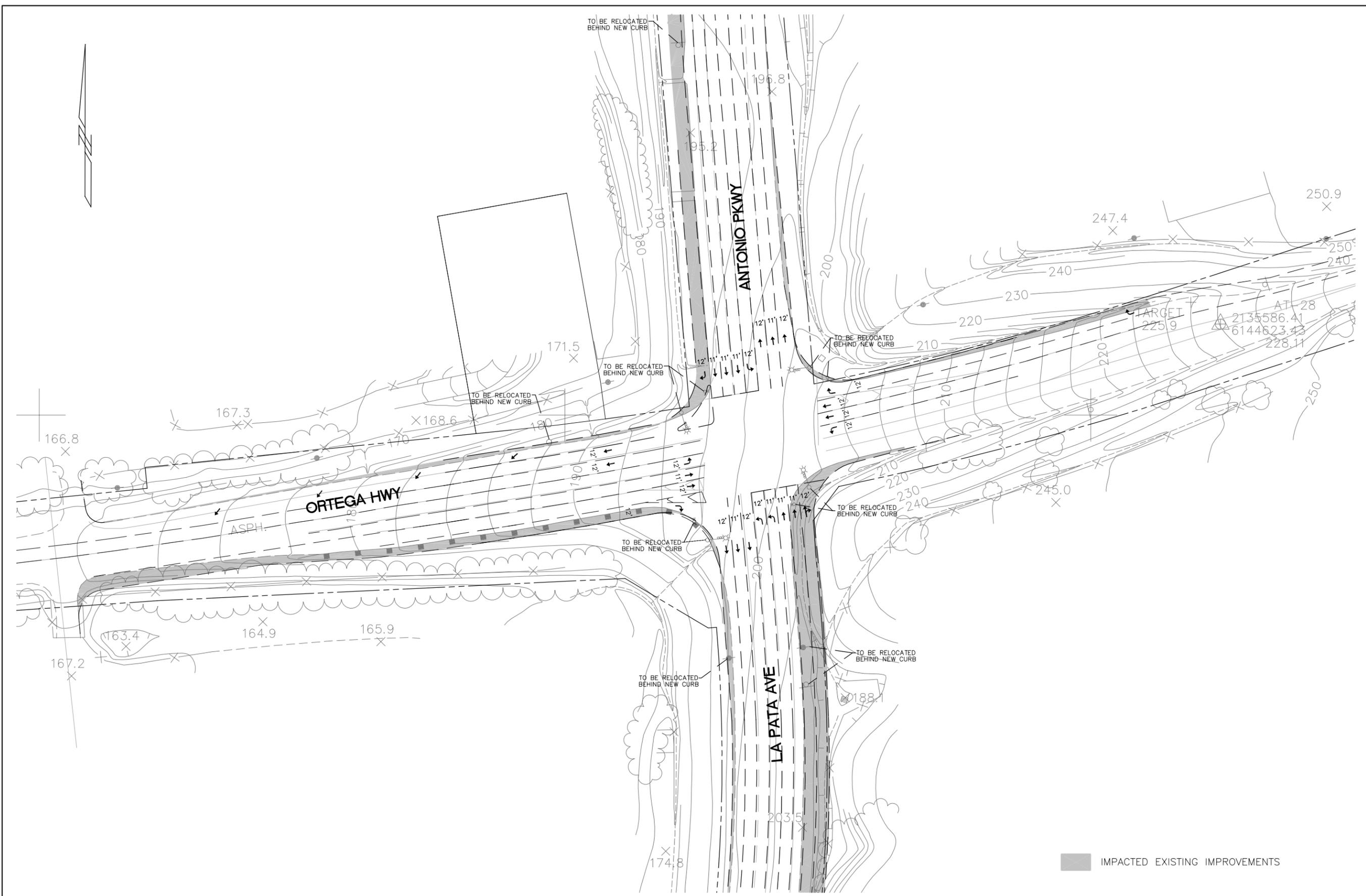


IMPACTED EXISTING IMPROVEMENTS

CONCEPTUAL INTERSECTION IMPROVEMENTS
RANCHO VEJO RD AND ORTEGA HWY



**CONCEPTUAL INTERSECTION IMPROVEMENTS
LA NOVIA AVE AND ORTEGA HWY**



CONCEPTUAL INTERSECTION IMPROVEMENTS
 ANTONIO PKWY-LA PATA AVE AND ORTEGA HWY







20

NOT TO SCALE

CONCEPTUAL INTERSECTION IMPROVEMENTS
AVENIDA LA PATA AVE AND AVENIDA VISTA HERMOSA

