

INTERSECTION 38

Crenshaw Boulevard/Del Amo Boulevard Improvement(s)

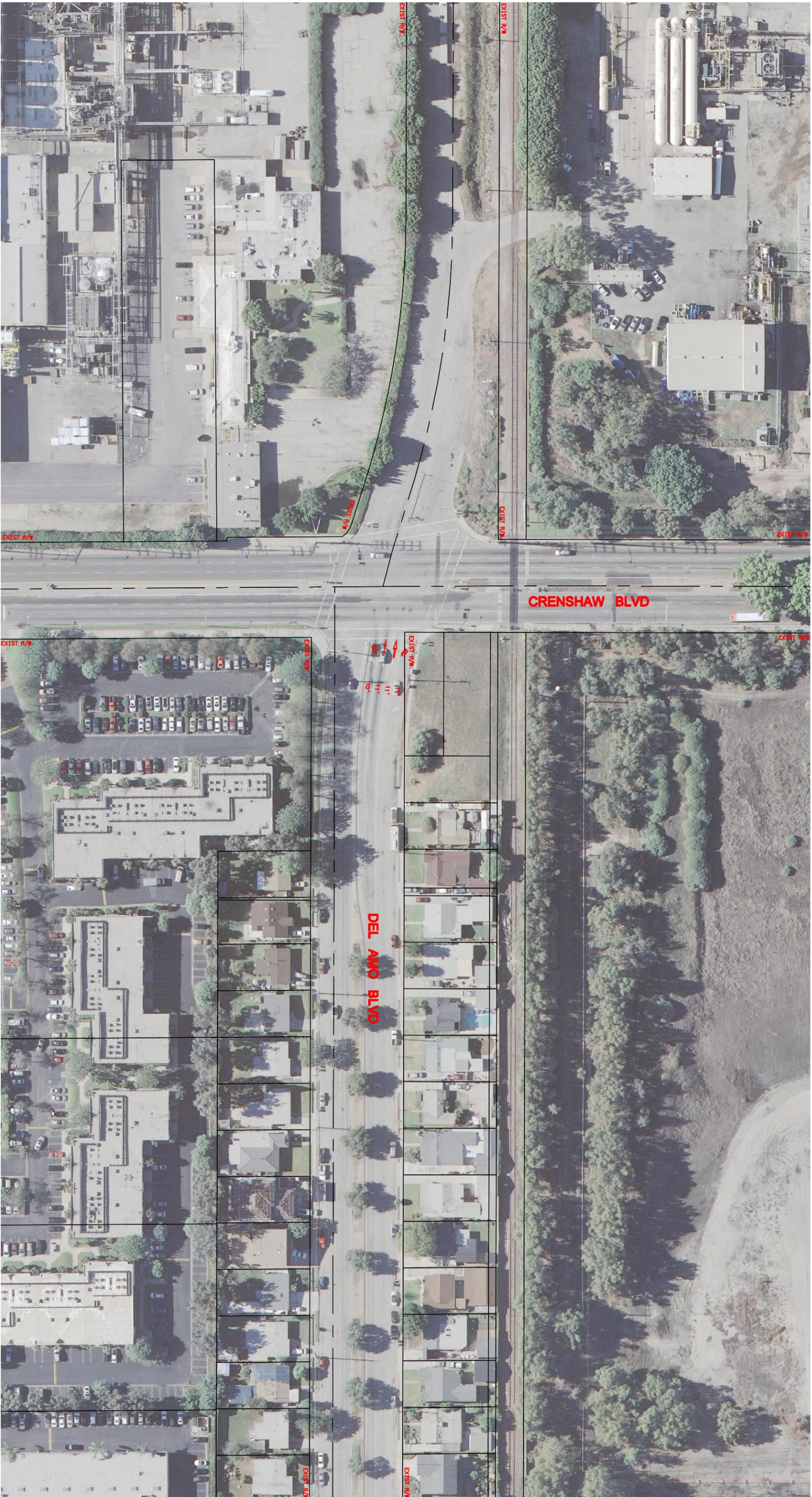
Forecast Near-Term Conditions Intersection LOS Summary

	Weekday AM Peak Hour	Weekday Mid-Day Peak Hour	Weekday PM Peak Hour	Weekend Mid-Day Peak Hour
Without Improvement(s)	58.7 – E	72.5 – E	131.7 – F	41.7 – D
With Improvement(s)	23.9 – C	23.9 – C	32.9 – C	20.8 – C

Note: Delay shown in seconds per vehicle; Deficient intersection operation shown in ***bold italics***.

Recommended Improvements:

- Re-stripe the westbound Del Amo Boulevard approach from one left-turn lane, one shared left-turn/through lane, one through lane, and one right-turn lane to consist of one left-turn lane, two through lanes, and one right-turn lane.
- Additionally, modify the eastbound and westbound Del Amo Boulevard traffic signal phasing from split-phase to permitted left-turn phasing.



MITIGATIONS:
WB - ELIMINATE LEFT/THRU LANE
AND ADD THRU LANE

CRENSHAW BLVD.

LEGEND:



DEL AMO BLVD.



SCALE: 1" = 100'



INTERSECTION 38
CRENSHAW BLVD/DEL AMO BLVD

CITYWIDE TRAFFIC ANALYSIS MITIGATION MEASURES

PBF
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REV.	DATE	DESCRIPTION	BY	CHECKED

<p>CITY OF TORRANCE PUBLIC WORKS DEPARTMENT</p>		<p>APPROVED:</p>	<p>DATE</p>
		<p>SCALE: AS SHOWN SHEET 1 OF 1</p>	<p>PLAN NO.</p>
<p>DRAWN: D. ALVARADO</p>	<p>DESIGNED: D. ALVARADO</p>	<p>PROJECT ENGINEER:</p>	<p>DATE</p>

**CITY OF TORRANCE CITYWIDE TRAFFIC ANALYSIS MITIGATION MEASURES
PRELIMINARY COST ESTIMATES**

Location: Intersection 38: Crenshaw Blvd/Del Amo Blvd

Date: 2/22/2008

Mitigation: Re-stripe the westbound Del Amo Boulevard approach to consist of one left-turn lane, two through lanes, and one right-turn lane.

Estimated by: D. Alvarado

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)		\$2,000
2	Clear & Grub	\$10,000.00 / AC		\$0
3	Remove Striping	\$10.00 / LF	18	\$200
4	Remove Curb & Gutter	\$15.00 / LF		\$0
5	Remove Median Curb	\$30.00 / LF		\$0
6	Remove PCC Sidewalk	\$3.50 / SF		\$0
7	Remove Pavement	\$4.00 / SF		\$0
8	Remove Wall	\$50.00 / LF		\$0
9	Remove Channel	\$15.00 / LF		\$0
10	Remove/Replace Chain Link Fence	\$50.00 / LF		\$0
11	Remove/Replace Wrought Iron Fence	\$10.00 / LF		\$0
12	Remove/Replace Survey Monument	\$800.00 / EA		\$0
13	Reconstruct Metal Beam Guard Rail	\$70.00 / LF		\$0
14	Remove & Relocate Tree	\$3,000.00 / EA		\$0
15	Sawcut	\$1.00 / LF		\$0
16	Relocate Street Light	\$7,500.00 / EA		\$0
17	Relocate Traffic Signal System	\$300,000.00 / EA		\$0
18	Signal Phase Modification	\$10,000.00 / EA		\$0
19	Relocate Freeway Sign (2 post)	\$1,000.00 / EA		\$0
20	Relocate Sign (1 Post)	\$300.00 / EA		\$0
21	Reconstruct Overhead Sign	\$50,000.00 / EA		\$0
22	Relocate Call Box	\$2,000.00 / EA		\$0
23	Relocate Power Pole	\$25,000.00 / EA		\$0
24	Relocate Catch Basin	\$9,000.00 / EA		\$0
25	Relocate Fire Hydrant	\$2,500.00 / EA		\$0
26	Relocate Bus Shelter	\$2,000.00 / EA		\$0
27	Relocate Bus Bench	\$600.00 / EA		\$0
28	Relocate Monument Sign	\$5,000.00 / EA		\$0
29	Relocate Utility Boxes	\$500.00 / EA		\$0
30	Relocate Main Water Valve	\$10,000.00 / EA		\$0
31	Relocate Utility Vault	\$3,000.00 / EA		\$0
32	Adjust Manhole to Grade	\$1,000.00 / EA		\$0
33	Adjust Water Meter	\$2,000.00 / EA		\$0
34	Adjust Water Valve	\$500.00 / EA		\$0
35	Adjust Minor Above Ground Utilities	\$500.00 / EA		\$0
36	Modify Driveway	\$5,000.00 / EA		\$0
37	Earthwork	\$40.00 / CY		\$0
38	Construct PCC Pavement	\$15.00 / SF		\$0
39	Construct AC Pavement	\$14.00 / SF		\$0
40	Construct AC Overlay	\$3.00 / SF		\$0
41	Construct Slurry Seal	\$0.25 / SF		\$0
42	Construct Striping & Marking	\$4.00 / LF	18	\$100
43	Construct AC Dike	\$7.00 / LF		\$0
44	Construct Curb & Gutter	\$40.00 / LF		\$0
45	Construct Concrete Barrier	\$50.00 / LF		\$0
46	Construct Median Curb	\$20.00 / LF		\$0
47	Construct Median Concrete	\$10.00 / SF		\$0
48	Construct Median/Parkway Landscaping	\$10.00 / SF		\$0
49	Construct PCC Sidewalk	\$10.00 / SF		\$0
50	Construct Access Ramp	\$5,000.00 / EA		\$0
51	Construct Retaining Wall	\$50.00 / SF		\$0
52	Construct Storm Drain Main	\$100.00 / LF		\$0
53	Construct RCB	\$1,000.00 / LF		\$0
54	Construct Headwall	\$5,000.00 / EA		\$0
55	Construct Concrete V-Ditch	\$15.00 / LF		\$0
56	Construct Bridge Widening	\$500.00 / SF		\$0
57	Construct Wall	\$70.00 / LF		\$0
58	Building/Structure Demolition (1-Story Bldg)	\$10.00 / SF		\$0
59	Traffic Control (\$5,000 min)	8%	1	\$5,000
60	Drainage Items	10%		\$0
61	SWPPP Plan and Implementation	6%		\$0
	CONSTRUCTION SUBTOTAL			\$7,300
	Right-of-Way	100 / SF		\$0
	Right-of-Way Management	5 / %		\$0
	RIGHT-OF-WAY SUBTOTAL			\$0
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$8,000
	Preliminary Project Development (10% of total Construction/RW cost)			\$0
	Design Engineering/Administration Costs (15% of total Construction/RW cost) (\$10,000 min)			\$10,000
	Construction Engineering Costs/Administration (10% of total Construction/RW cost) (\$5,000 min)			\$5,000
	Contingency (20% of Total Construction/RW cost) (\$5,000 min)			\$5,000
	TOTAL PROJECT COSTS			\$28,000