



A G E N D A

NORTH IRVINE TRANSPORTATION MITIGATION ADVISORY COMMITTEE REGULAR MEETING

**May 20, 2013
3:30 p.m.**

**Irvine Civic Center
One Civic Center Plaza,
Conference Room No. B204
Irvine, California 92623**

Speaker's Form/Request to Speak: If you would like to address the North Irvine Transportation Mitigation Committee on a scheduled agenda item, please complete the Sign-In Sheet. The Sign-In Sheet is located on the table at the entrance to the conference room. Please identify on the sign-in sheet your name, address, and the item on which you would like to speak and return to the Recording Secretary. The Sign-In Sheet assists the Chair in ensuring that all persons wishing to address the Committee are recognized. Your name will be called at the time the matter is heard by the Committee.

CALL TO ORDER

ROLL CALL

CHAIR:	Manuel Gomez, City of Irvine
MEMBER:	John Boslet, The Irvine Company
MEMBER:	Jennifer Bohlen, on behalf of Heritage Fields El Toro, LLC

ADDITIONS AND DELETIONS TO THE AGENDA

Additions to the agenda are limited by California Government Code Section 54954.2 of the Brown Act and for those items that arise after the posting of the Agenda and must be acted upon prior to the next Committee meeting.

PUBLIC COMMENTS

Any member of the public may address the Committee on items within the Committee's subject matter jurisdiction, but which are not listed on this Agenda during PUBLIC COMMENTS. However, no action may be taken on matters that are not part of the posted agenda. PUBLIC COMMENTS are scheduled for 30 minutes and are limited to 3 minutes per person.

INTRODUCTION

COMMITTEE BUSINESS

1. Minutes (Page 5)

Recommended Action:

Approve the minutes of the North Irvine Transportation Mitigation (NITM) Advisory Committee Meeting held on September 11, 2012.

2. NITM Quarterly Status Report (Page 8)

Recommended Action:

Receive and file.

DISCUSSION ITEMS

3. Great Park Neighborhoods 2011 GPA/ZC NITM Program Fee Reallocation Study (Page 17)

4. Heritage Fields GP I Fee Credit and NITM Fee Allocation Plan Agreement (Page 493)

5. Updated PA 40 NITM Fee Allocation Plan (Page 520)

6. NITM Five Year Review

DIRECTOR ACTIONS

7. Great Park Neighborhoods 2011 GPA/ZC NITM Program Fee Reallocation Study (Page 17)

Recommended Action:

Approve the Great Park Neighborhoods 2011 GPA/ZC North Irvine Transportation Mitigation Program Fee Reallocation Study.

**8. Heritage Fields GP I Fee Credit and NITM Fee Allocation Plan Agreement
(Page 493)**

Recommended Action:

Approve the Heritage Fields GP I Fee Credit and NITM Fee Allocation Plan Agreement.

COMMITTEE MEMBER AND STAFF COMMENTS

ADJOURNMENT

ITEM 1: MINUTES



MINUTES

NORTH IRVINE TRANSPORTATION MITIGATION ADVISORY COMMITTEE REGULAR MEETING

**September 11, 2012
2:30 P.M.**

Irvine Civic Center
One Civic Center Plaza,
Conference Room B200
Irvine, California 92606

CALL TO ORDER

A regular meeting of the North Irvine Transportation Mitigation Advisory Committee Meeting was called to order at 2:35 p.m. on September 11, 2012, in Conference Room B200, Irvine Civic Center, On Civic Center Plaza, Irvine, California; Director Manuel Gomez presiding.

ROLL CALL

Present:	3	CHAIR:	Manuel Gomez, City of Irvine
		MEMBER:	John Boslet, Irvine Company
		MEMBER:	Jennifer Bohlen, on behalf of Heritage Fields El Toro, LLC

Also present: City Staff: Katie Berg-Curtis, Project Development Administrator; Barry Curtis, Manager of Planning Services, Andy Do, Senior Accountant; Shohreh Dupuis, Manager of Transit and Transportation, Lisa Thai, Senior Transportation Analyst, Teri Washle, Finance Administrator; and Kory Lynch, Hunsaker.

ADDITIONS AND DELETIONS TO THE AGENDA

There were no additions or deletions to the agenda.

PUBLIC COMMENTS

There were no public comments.

INTRODUCTION

COMMITTEE BUSINESS

1. Minutes

ACTION: Approved the meeting minutes of the March 14, 2011 meeting as amended.

2. NITM Quarterly Status Report

Mr. Do presented the June 30, 2012 NITM Quarterly Status Report.

Footnotes will be added to page 1 of the report to reflect the transfers of funds from Systems Development Charges and Fee District 89-1 to Sand Canyon/I-5 Project.

ACTION: Received report.

DISCUSSION ITEMS

3. NITM Near-term Improvements Implementation Schedule

Ms. Thai presented the NITM Near-term Improvements Implementation Schedule.

The Committee discussed the NITM funds allocated towards Caltrans fair share improvements. Mr. Boslet requested to include discussion on the City Attorney's directions on fair share improvements already constructed by Caltrans or other agencies at the next NITM Committee meeting.

ADJOURNMENT AT 3:30 p.m., Tuesday, September 11, 2012, to the next NITM Advisory Committee meeting to a date to be determined.

Manuel Gomez
Chair, NITM Advisory Committee

Date:_____

ITEM 2: NITM QUARTERLY STATUS REPORT

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM)
FUNDING SUMMARY
AT 3/31/2013**

REVENUES		
NITM Fees	\$	47,782,977.39
Interest		5,180,218.16
Transfers-in from Systems Development Charge		3,062,626.00 ¹
Transfers-in from Measure M		188,033.85 ²
Transfers-in from Fee District 89-1		<u>550,000.00</u> ³
TOTAL REVENUES		\$ 56,763,855.40
EXPENDITURES		
Irvine CIP Project Expenditures		23,872,077.93
Administrative Costs (Non-Project Specific)		<u>1,017,468.38</u>
TOTAL EXPENDITURES		\$ 24,889,546.31
FUND BALANCE		
CALCULATED FUND BALANCE (REVENUES-EXPENDITURES)		\$ 31,874,309.09
GASB 31 FMV ADJ.(MARKET VALUE ADJUSTABLE) [OBJ 0201]		<u>\$ 113,025.70</u>
ADJUSTED FUND BALANCE		<u>\$ 31,987,334.79</u>
<u>Anticipated</u>		
12-13 CIP Project Appropriations		(17,470,557.77)
12-13 Administration ⁴		<u>(222,018.75)</u>
NET UNAPPROPRIATED FUND BALANCE		\$ 14,294,758.27

¹ For CIP 314210 (\$114,366), CIP 314250 (\$2,814,760) and CIP 338020 (\$133,500)

² For CIP 334100 (closed)

³ For CIP 314250

⁴ For 6/30/XX uses 7/1/XX budget. For other quarters, uses the balance at the end of the quarter.

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM)
FUNDING DETAIL**

Revenues & Transfers In	FY 2003-2004	FY 2004-2005	FY 2005-2006	FY 08-09	FY 09-10	FY 10-11	FY 11-12	FY 12-13	CUMULATIVE TOTAL
NITM Fee Revenue									
Fee District Area 1 & 2			701,988.00						1,516,097.00 (1)
Fee District Area 5B									-
Fee District Area 6		7,346,905.00							7,346,905.00 (2)
Fee District Area 8A	481,867.00	-							481,867.00 (3)
Fee District Area 9A	8,155,311.00								8,155,311.00 (4)
Fee District Area 9B									7,415,957.00 (5)
Fee District Area 40						2,341,308.00	5,445,151.00	14,804,202.00	22,866,840.39 (6)
Great Park I									-
Great Park II									-
Great Park III									-
Great Park IV									-
Sub-Total: NITM Fee Revenue	8,637,178.00	7,346,905.00	701,988.00	-	-	2,341,308.00	5,445,151.00	14,804,202.00	47,782,977.39
Interest	56,248.75	226,301.48	468,672.81	928,052.79	595,665.52	434,664.22	278,262.85	113,858.49	5,180,218.16
Transfer-in from SDC			114,366.00	423,000.00				133,500.00	3,062,626.00
Transfer-in from Measure M				1,614.40					188,033.85
Transfer-in from FD 89-1 Bake/I5 Interchange									550,000.00
Sub-Total: Interest & Transfers In	56,248.75	226,301.48	583,038.81	1,352,667.19	595,665.52	434,664.22	278,262.85	247,358.49	8,980,878.01
TOTAL REVENUE	8,693,426.75	7,573,206.48	1,285,026.81	1,352,667.19	595,665.52	2,775,972.22	5,723,413.85	15,051,560.49	56,763,855.40
Expenditures & Transfers Out									
Irvine CIP Expenditures	28,410.91	647,536.70	318,807.65	3,344,371.55	1,412,312.98	220,911.98	5,564,649.31	10,142,436.88	23,872,077.93 (7)
Payment to Other Agencies for NITM Work	-	-	-	-	-	-	-	-	-
Administrative Costs (Non-Project Specific Overhead)	-	-	-	-	-	-	-	-	-
Fiscal Services Administration	2,864.10	3,214.92	880.62	5,407.63	5,087.47	\$ 4,447.00	4,850.68	3,902.94	41,784.96
Fiscal Services Contract Services	-	-	-	-	-	-	-	-	-
Community Development Administration	396.80	-	-	-	-	\$ 2,969.95	1,153.23	3,249.75	7,769.73
Community Development Contract Services	5,972.26	1,904.09	-	-	-	-	-	-	7,876.35
Public Works Administration	541.27	63,661.11	50,576.20	32,466.53	33,248.64	\$ 28,728.70	3,927.30	21,239.17	442,904.70
Public Works Contract Services	-	8,645.00	4,709.00	5,799.88	72,297.99	\$ 2,809.00	-	95.00	517,132.64
Sub-Total: Expenditures	38,185.34	724,961.82	374,973.47	3,388,045.59	1,522,947.08	259,866.63	5,574,580.52	10,170,923.74	24,889,546.31
Transfers-Out	-	-	-	-	-	-	-	-	-
Sub-Total: Transfers-Out	-	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	38,185.34	724,961.82	374,973.47	3,388,045.59	1,522,947.08	259,866.63	5,574,580.52	10,170,923.74	24,889,546.31
NITM RESERVES	\$ 8,655,241.41	\$ 6,848,244.66	\$ 910,053.34	\$ (2,035,378.40)	\$ (927,281.56)	\$ 2,516,105.59	\$ 148,833.33	\$ 4,880,636.75	\$ 31,874,309.09

- (1) Paid via A.D. 05-21; 6/30/06 and \$814,109 6/1/07
- (2) Paid via A.D. 04-20; 5/12/05
- (3) Paid via A.D. 03-19; 5/11/04
- (4) Paid via A.D. 03-19; 5/11/04
- (5) Paid via A.D. 07-22; 6/14/07
- (6) \$276,179 paid via credit; \$2,341,308 paid via building permits; \$15,443,257 paid via ROW (SR 133) Credits
\$4,806,096 paid via A.D. 11-24 (12/18/12)
- (7) Details on page 8

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM)
CAPITAL PROJECT EXPENDITURE SUMMARY
AT 3/31/2013**

LOC. NO.	CIP NO.	PROJECT NAME	ORIGINAL PROJECT ESTIM.	CURRENT ESTIM. AT 2011	BUDGETED AMOUNT	EXPENDITURES TO DATE	REMAINING BUDGETED AMOUNTS
BUDGETED PROJECTS							
364	314210	314210 Total BAKE & JERONIMO	\$ 2,795,000.00	\$ 4,852,000.00	\$ 1,326,366.00	\$ 8,641.66	\$ 1,317,724.34
288	314240	314240 Total JEFFREY & WALNUT	446,000.00	\$ 1,131,379.00	\$ 734,000.00	\$ 130,687.51	603,312.49
303, 305	314250	314250 Total SAND CANYON & I-5 NB & SB RAMPS	2,836,000.00	\$ 5,188,000.00	\$ 8,440,948.45	(1) \$ 969,737.60	7,471,210.85
19	316020	316020 Total TRABUCO RD/EAST TRAN. CORR.	50,903,000.00	\$ 104,907,828.00	\$ 20,289,886.00	\$ 15,692,405.81	4,597,480.19
383	316040	316040 Total LAKE FOREST & AVE DE CARLOTA/I-5 SB	534,000.00	\$ 914,000.00	\$ 853,000.00	\$ -	853,000.00
125	316080	316080 Total JAMBOREE / IRVINE INTERSECTION	651,000.00	\$ 1,080,000.00	\$ 138,000.00	\$ -	138,000.00
362	317020	317020 Total BAKE PKWY / IRVINE BLVD - (Physical Imprv.)	1,513,000.00	\$ 3,052,000.00	\$ 783,000.00	\$ 1,557.77	781,442.23
235	318030	318030 Total CULVER @ UNIVERSITY DR.	2,153,000.00	\$ 4,378,000.00	\$ 564,000.00	\$ 122.33	563,877.67
34	338020	338020 Total RED HILL & IRVINE ATMS	105,000.00	\$ 173,165.00	\$ 356,185.00	\$ 177,848.66	178,336.34
<u>BAKE/IRVINE TMSOS</u>							
N/A	338010	338010 Total FUTURE TMSOS - (Bake/Irvine TMSOS)		\$ 2,243,000.00	\$ 864,000.00	\$ 863,441.62	558.38
<u>LAKE FOREST TMSOS</u>							
383	316100	316100 Total LAKE FOREST & I-5 SB RAMPS TMSOS	272,000.00	\$ 272,000.00	\$ 272,000.00	\$ -	272,000.00
SUB-TOTAL ACTIVE PROJECTS			62,208,000.00	128,191,372.00	34,621,385.45	17,844,442.96	16,776,942.49
BUDGETED FAIR SHARE PROJECTS							
3	316050	316050 Total ALTON/I-5 SB RAMPS	2,031,000.00	\$ 4,619,000.00	\$ 257,329.00	\$ 55.72	257,273.28
8	316060	316060 Total JAMBOREE & I-5 NB RAMPS	1,868,000.00	\$ 5,408,000.00	\$ 110,809.00	\$ -	110,809.00
9	316070	316070 Total JAMBOREE & I-5 SB RAMPS	1,673,000.00	\$ 3,595,000.00	\$ 51,838.00	\$ -	51,838.00
13	318070	318070 Total I-405 @ IRVINE CTR. DR.	2,145,000.00	\$ 6,697,000.00	\$ 119,102.00	\$ -	119,102.00
4	318080	318080 Total I-5 @ BAKE PKWY SB OFF-RAMP	856,000.00	\$ 3,401,000.00	\$ 116,188.00	\$ -	116,188.00
11	318090	318090 Total I-5 @ SAND CANYON NB ON-RAMP	131,000.00	\$ 604,000.00	\$ 38,405.00	\$ -	38,405.00
SUB-TOTAL ACTIVE FAIR SHARE PROJECTS			8,704,000.00	24,324,000.00	693,671.00	55.72	693,615.28
TOTAL ACTIVE PROJECTS			70,912,000.00	152,515,372.00	35,315,056.45	17,844,498.68	17,470,557.77
GRAND TOTAL			\$ 70,912,000.00	\$ 152,515,372.00	\$ 35,315,056.45	\$ 17,844,498.68	\$ 17,470,557.77

<i>IFAS RPT</i>	35,315,056.45	17,844,498.68	17,470,557.77
<i>OOB</i>	0.00	0.00	0.00

(1) Including \$2,814,760 of System Development Control and \$550,000 of Fee District 89-1.

NORTH IRVINE TRANSPORTATION MITIGATION (NITM)
Schedule of Project Estimates And Appropriations

CIP #	LOC#	DESCRIPTION	ORIGINAL PROJ. ESTIM.	2011 PROJ. ESTIM.	2011 NITM SHARE	BUDGET								STATUS	COMMENTS
						PRIOR YEARS	FY 13/14	FY 14/15	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20		
NITM ONLY IMPROVEMENTS															
338020	34	Red Hill Ave at Irvine Blvd	\$105,000	\$173,165	\$173,165	\$356,185								NS	
	91	Justin Ranch at Irvine Blvd	105,000	173,165	173,165									NS	
316080	125	Jamboree Rd at Irvine Blvd	651,000	1,080,000	1,080,000	\$138,000								NS	
347400	127	Jamboree Rd at El Camino Real	464,000	702,000	702,000									NS	Deleted during Five Year Review
344220	222	Culver Dr at Trabuco Rd	1,696,000	3,191,565	3,191,565									F	Closed by FY 10-11 CIP Year End Review
344230	223	Culver Dr at I-5 SB Ramps	448,000	446,489	446,489									F	Closed by FY 10-11 CIP Year End Review
	224	Culver Dr at Walnut Ave	105,000	173,165	173,165									NS	
318030	235	Culver Dr at University Dr	2,153,000	4,378,000	4,378,000	\$564,000		81,000		250,000		3,483,000		NS	
	249	Yale Ave at Irvine Blvd	949,000	4,624,000	4,624,000									NS	
	285	Jeffrey Rd at Trabuco Rd	406,000	178,185	178,185									NS	Deleted during Five Year Review
314240	288	Jeffrey Rd at Walnut Ave / I-5 SB Ramps	446,000	1,131,379	1,131,379	\$734,000								FD	Final Design on hold.
	289	Jeffrey Rd at Irvine Center Dr	6,789,000	11,128,000	11,128,000									NS	
	291	Jeffrey Rd at Alton Pkwy	601,000	1,268,000	1,268,000		61,000		91,000		301,000		815,000	NS	
310130		Trabuco Rd Widening: Sand-SR55	413,219	0	0									F	AD 03-19 has been cash reimbursed in July 2009
310140	302	Sand Cyn Ave at Trabuco Rd	436,440	416,839	416,839									F	AD 03-19 has been cash reimbursed in July 2009
314250	303, 305	Sand Cyn Ave at I-5 NB Ramps / Marine Way / SB Ramps	2,836,000	5,188,000	5,188,000	\$8,440,948								FD	
	306	Sand Cyn Ave at Oak Cyn / Laguna Canyon Rd	15,000	979,000	979,000		61,000		92,000		826,000			NS	
	310	Sand Cyn Ave at Alton Pkwy	218,000	351,000	351,000									NS	
	311	Sand Cyn Ave at I-405 NB Ramps	665,000	1,215,000	1,215,000									NS	
	321	Laguna Cyn Rd at Old Laguna Cyn Rd	1,253,000	2,005,000	2,005,000									NS	
	338	Alton Pkwy at Irvine Blvd	2,040,000	2,802,396	2,802,396									NS	
	344	Alton Pkwy at Muirlands Blvd/Barranca Pkwy	10,000	16,000	16,000									NS	Deleted during Five Year Review
	345	Alton Pkwy at I-5 NB Ramps	22,000	29,000	29,000									NS	
317020	362	Bake Pkwy at Irvine Blvd	1,513,000	3,052,000	3,052,000	\$783,000								NS	
314210	364	Bake Pkwy at Jeronimo Dr	2,795,000	4,852,000	4,852,000	\$1,326,366				489,634		3,036,000		NS	
	366	Bake Pkwy at Rockfield Blvd	10,000	0	0									NS	This project was deleted as a result of PA 1/9 Re-allocation Study.
	368	Bake Pkwy at I-5 SB Ramps	451,000	2,910,000	2,910,000									NS	
	379	Lake Forest Dr at Muirlands Blvd	15,000	15,324	15,324									NS	
316040	383	Lake Forest Dr at Avenida De La Carlota / I-5 SB Ramps	534,000	914,000	914,000	\$853,000								NS	
	406	Laguna Canyon Rd at Lake Forest Drive (Future)	1,204,000	369,612	369,612									NS	
	407	Laguna Canyon Rd at Bake Pkwy	3,438,000	1,174,000	1,174,000									NS	
INTERCHANGES															
316020	19	SR-133 at Trabuco Rd	50,903,000	104,907,828	104,907,828	\$20,289,886								PE	
TMSOS															
316100	383	Lake Forest & I-5 SB Ramps TMSOS	272,000	272,000	272,000	\$272,000								NS	
334400	362	Bake / Irvine TMSOS (Culver Signal Upgrade & Coord.)	1,239,000	1,239,000	1,239,000									F	Closed by FY 10-11 CIP Year End Review
338010	N/A	Future TMSOS - (Bake/Irvine TMSOS)		\$2,243,000	\$2,243,000	\$864,000								F	

NORTH IRVINE TRANSPORTATION MITIGATION (NITM)
Schedule of Project Estimates And Appropriations

CIP #	LOC#	DESCRIPTION	ORIGINAL PROJ. ESTIM.	2011 PROJ. ESTIM.	2011 NITM SHARE	BUDGET						STATUS	COMMENTS	
						PRIOR YEARS	FY 2013-14	FY 14/15	FY 15/16	FY 16/17	FY 17/18			FY 18/19	FY 19/20
FAIR SHARE FUNDED IMPROVEMENTS														
	123	Jamboree Rd at Tustin Ranch Rd	\$43,000	\$7,825	\$532								NS	
	228	Culver Dr at Barranca Pkwy	537,000	783,000	31,288								NS	
	290	Jeffrey Rd at Barranca Pkwy	309,000	495,000	57,426								NS	
	293	Jeffrey Rd at I-405 NB Ramps	478,000	933,000	86,217								NS	
	327	Barranca Pkwy at Technology Dr	495,000	765,000	49,632								NS	
	344	Alton Pkwy at Technology Dr West	17,000	16,360	1,415								NS	
	348	Alton Pkwy at Irvine Center Dr	1,343,000	2,576,000	74,857								NS	
	358	Irvine Center Dr at Enterprise Dr	28,000	31,000	290								NS	
	359	Irvine Center Dr at I-405 SB Ramps	491,000	893,000	13,054								NS	
	378	Lake Forest Dr at Jeronimo Rd	1,370,000	2,452,000	80,096								NS	
	380	Lake Forest Dr at Rockfield Blvd	28,000	30,000	1,058								NS	
	385	Lake Forest Dr at Irvine Center Dr	573,000	972,000	43,957								NS	Deleted during Five Year Review
	387	Ridge Route Dr at Rockfield Blvd	17,000	185,000	5,460								NS	
	389	Ridge Route Dr at Moulton Pkwy	10,000	15,000	159								NS	Deleted during Five Year Review
	390	Paseo de Valencia at Avenida De La Carlota	423,000	699,000	14,191								NS	
	394	Santa Maria Dr at Moulton Pkwy	1,813,000	2,599,000	21,464								NS	Deleted during Five Year Review
	396	El Toro Rd at Avenida De La Carlota	14,000	13,694	295								NS	
	420	El Toro Rd at Jeronimo Rd	2,502,000	5,431,000	193,517								NS	
	424	Los Alisos Blvd at Trabuco Rd	639,000	4,049,000	43,346								NS	Deleted during Five Year Review
	422	Los Alisos Blvd at Jeronimo Rd	1,161,000	2,036,000	39,035								NS	
	423	Muirlands Blvd at Los Alisos Blvd	3,049,000	5,820,000	117,110								NS	
	424	Los Alisos Blvd at Rockfield Blvd/Fordview St	1,222,000	2,184,000	13,402								NS	
	427	Moulton Pkwy at Glenwood Dr/Indian Creek Ln	743,000	1,191,000	43,156								NS	Deleted during Five Year Review
	429	Moulton Pkwy at Laguna Hills Dr	43,000	72,000	740								NS	Deleted during Five Year Review
	432	Alicia Pkwy at Muirlands Blvd	3,115,000	6,705,000	92,369								NS	
	557	Ridge Valley at Irvine Blvd	552,000	1,125,000	409,134								NS	
ROADWAY SEGMENTS														
	Seg 2	Jamboree Rd (Portola Pkwy to Irvine City Limits north of Tustin Ranch Rd)	3,558,000	3,903,000	265,413								NS	
317110	Seg 3	Jeffrey Rd (Future extension from Portola Pkwy to SR-241)	18,809,000	24,848,000	3,058,944								NS	
	Seg 4	SR-133 (I-405 to Lake Forest)	2,888,000	4,953,105	195,931								NS	
FREEWAY MAINLINE														
	1	I-5 (Sand Cyn Ave to Jeffrey Rd)	4,619,000	11,410,000	422,799								NS	
	2	I-405 (Sand Cyn Ave to Jeffrey Rd)	161,000	526,000	12,519								NS	
FREEWAY/TOLLWAY RAMPS														
316050	3	I-5 at Alton Pkwy (SB Off-Ramp)	2,031,000	4,619,000	588,732	257,329							NS	
318080	4	I-5 at Bake Pkwy (SB Off-Ramp)	856,000	3,401,000	266,342	116,188							NS	
	5	I-5 at Culver Dr (SB Off-Ramp)	2,625,000	6,128,000	685,058								NS	
	6	I-5 at El Toro Rd (NB Loop On-Ramp)	124,000	256,000	16,213								NS	
	7	I-5 at El Toro Rd (SB Off-Ramp)	124,000	2,222,000	68,684								NS	
316060	8	I-5 at Jamboree Rd (NB Off-Ramp)	1,868,000	5,408,000	309,886	110,809							NS	
316070	9	I-5 at Jamboree Rd (SB Off-Ramp)	1,673,000	3,595,000	25,485	51,838							NS	
	10	I-5 at Jeffrey Rd (SB On-Ramp)	113,000	178,000	12,070								NS	

NORTH IRVINE TRANSPORTATION MITIGATION (NITM)
Schedule of Project Estimates And Appropriations

CIP #	LOC#	DESCRIPTION	ORIGINAL PROJ. ESTM.	2011 PROJ. ESTM.	2011 NITM SHARE	BUDGET							STATUS	COMMENTS	
						PRIOR YEARS	FY 2013-14	FY 14/15	FY 15/16	FY 16/17	FY 17/18	FY 18/19			FY 19/20
318090	11	I-5 at Sand Cyn Ave (NB On-Ramp)	131,000	604,000	113,431	38,405								NS	
318070	13	I-405 at Irvine Center Dr (SB Off-Ramp)	\$2,145,000	\$6,697,000	\$256,969	119,102								NS	
	14	I-405 at Jeffrey Rd (NB Off-Ramp)	\$2,258,000	\$5,963,000	\$85,670									NS	
	15	I-405 at Sand Canyon Ave (NB Direct On-Ramp)	145,000	618,000	69,525									NS	
	16	I-405 at Sand Canyon Ave (SB Off-Ramp)	2,257,000	5,469,000	383,454									NS	
	17	SR-133 at Barranca Pkwy (SB Loop On-Ramp)	142,000	367,000	313									NS	
	18	SR-241 at Lake Forest Dr (SB Off-Ramp)	3,124,000	6,300,000	222,592									NS	Deleted during Five Year Review

INTERCHANGES															
	20	SR-241 at Jeffrey Rd	11,362,000	20,023,000	2,290,073									NS	

Sub-Total (Before NITM Program Admin) 166,917,659 319,134,096 174,290,412 35,315,056 122,000 81,000 183,000 739,634 1,127,000 6,519,000 815,000

NITM PROGRAM ADMINISTRATIVE COSTS AND CALTRANS CONTINGENCY FUND

NITM Program Establishment Cost	300,000	276,179	276,179												
NITM Program Administration Cost	2,428,000	2,428,000	2,428,000	829,462	100,000	250,000	250,000	250,000	100,000	100,000	100,000				
Caltrans Contingency Fund	500,000	500,000	500,000												
Subtotal	3,228,000	3,204,179	3,204,179	829,462	100,000	250,000	250,000	250,000	100,000	100,000	100,000				
TOTAL	\$170,145,659	\$322,338,275	\$177,494,591	\$36,144,518	\$222,000	\$331,000	\$433,000	\$989,634	\$1,227,000	\$6,619,000	\$915,000				

KEY: S = Started NS = Not Started PE = Prelim. Engineering FD = Final Design C = Construction F = Complete (Finish)
--

Note: The above data are compiled from PA 40 GPA/ZC NITM Program Fee Re-Allocation Study (March 2011)

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM)
Schedule NITM Fees And Other Revenues**

HISTORICAL PROGRESSION OF NITM FEES

Future Development Area	Initial Allocation (Ordinance 03-20)	07/01/04 Indexed Increase	07/01/05 Indexed Increase	07/01/06 Indexed Increase	PA 1/9 Re-alloc. Study (October 2006)	Five Year NITM Review (June 2010)	PA 40 NITM Re-allocation Study (March 2011)
1 & 2	\$ 490,893	\$ 525,637	\$ 701,988	\$ 785,945	\$ 1,516,097	\$ 1,736,602	\$ 1,657,554
5B	2,492,163	2,673,847	3,496,095	3,901,041	3,901,041	4,953,230	4,802,071
6	6,851,207	7,346,905	9,610,891	10,724,396	8,224,365	12,030,431	11,560,200
8A	481,867	515,434	658,525	730,567	730,567	754,310	732,643
9A	8,155,311	8,722,406	11,137,336	12,354,459	12,354,862	12,463,405	17,408,840
9B	6,660,870	7,132,361	9,187,483	10,214,087	7,415,957	17,908,031	12,103,625
40	27,055,825	28,870,646	36,102,516	39,839,827	39,837,827	48,087,931	44,612,810
Great Park IA	9,846,194	10,499,987	12,847,273	14,097,918	14,097,918	19,196,334	31,454,805
Great Park IB	19,415,490	20,667,227	25,287,413	27,749,071	27,749,071	33,407,436	20,113,250
Great Park IC	5,466,582	5,804,570	7,102,189	7,793,567	7,793,567	9,246,785	8,938,422
Great Park II	4,020,696	4,315,778	5,706,063	6,382,763	6,382,763	12,246,588	12,001,685
Great Park III	3,678,873	3,936,742	5,083,627	5,654,744	5,654,744	6,635,333	6,515,227
Great Park IV	1,892,591	2,026,966	2,639,690	2,942,368	2,942,368	4,479,039	4,373,246
Total Anticipated NITM Fee Revenue	\$ 96,508,562	\$ 103,038,506	\$ 129,561,089	\$ 143,170,754	\$ 138,601,147	\$ 183,145,455	\$ 176,274,378

TOTAL EXPENDITURES OF ALL NITM PROJECTS SINCE INCEPTION

As of 3/31/2013

ACTIVE NITM PROJECTS

<u>Project</u>	<u>Proj Desc</u>	<u>Budget</u>	<u>Year-to-Date</u>	<u>Project-to-Date</u>	<u>Encumbrance</u>	<u>Balance</u>
314210 Total	BAKE AND JERONIMO	1,326,366.00		8,641.66	-	1,317,724.34
314240 Total	JEFFREY & WALNUT	734,000.00		130,687.51	-	603,312.49
314250 Total	SAND CANYON @ I5 NB RAMPS	8,440,948.45	142,886.35	969,737.60	150,190.42	7,321,020.43
316020 Total	TRABUCO RD/E TRNSPTN CORRIDOR	20,289,886.00	9,999,550.53	15,692,405.81	-	4,597,480.19
316040 Total	LK FRST&AVE DE CARLOTA/I5 SB	853,000.00			-	853,000.00
316050 Total	ALTON/I5 SOUTHBOUND RAMPS	257,329.00		55.72	-	257,273.28
316060 Total	JAMBOREE & I5 NORTHBOUND RAMPS	110,809.00			-	110,809.00
316070 Total	JAMBOREE & I5 SOUTHBOUND RAMPS	51,838.00			-	51,838.00
316080 Total	JAMBOREE/IRVINE INTERSECTION	138,000.00			-	138,000.00
316100 Total	TMSOS LAKE FOREST DR/I5 SB RMP	272,000.00			-	272,000.00
317020 Total	BAKE PKWY/IRVINE (PHYS.IMPRV.)	783,000.00		1,557.77	-	781,442.23
318030 Total	CULVER/UNIVERSITY	564,000.00		122.33	-	563,877.67
318070 Total	I-405 AT IRVINE CENTER DRIVE	119,102.00			-	119,102.00
318080 Total	I-5 AT BAKE PKWY (SB OFF-RAMP)	116,188.00			-	116,188.00
318090 Total	I-5 AT SAND CANYON NB ON-RAMP	38,405.00			-	38,405.00
338010 Total	FUTURE TMSOS-BAKE/IRVINE TMSOS	864,000.00		863,441.62	-	558.38
338020 Total	RED HILL & IRVINE ATMS	356,185.00		177,848.66	-	178,336.34
17 projects	TOTAL EXPENDITURES OF ACTIVE PROJECTS	35,315,056.45	10,142,436.88	17,844,498.68	150,190.42	17,320,367.35

CLOSED NITM PROJECTS

310130 Total	TRABUCO RD WIDENING:SAND-SR 55	413,218.30		413,218.30		-
310140 Total	SAND/TRABUCO INTERSECTION IMPROV	436,439.05		436,439.05		-
314220 Total	CULVER AND TRABUCO	3,193,600.22		3,193,600.22		-
314230 Total	CULVER & I5 SOUTHBOUND RAMPS	417,373.84		417,373.84		-
314260 Total	SAND CANYON @ I5 SB RAMPS	139,811.55		139,811.55		-
317100 Total	JAMBOREE/EL CAMINO REAL INTERSECTION	-		-		-
334100 Total	CULVER SIGNAL UPG-BAKE/IRVINE TMSOS	1,427,033.85		1,427,033.85		-
336020 Total	JEFFREY/WALNUT TMS IMPROVEMENT	102.44		102.44		-
8 projects	TOTAL EXPENDITURES OF CLOSED PROJECTS	6,027,579.25		6,027,579.25		

25 projects	TOTAL EXPENDITURES OF ALL NITM PROJECTS	41,342,635.70		23,872,077.93		
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**ITEM 3: GREAT PARK NEIGHBORHOODS 2011
GPA/ZC NITM PROGRAM FEE REALLOCATION
STUDY**



Great Park Neighborhoods 2011 GPA/ZC North Irvine Transportation Mitigation (NITM) Program Fee Reallocation Study

City of Irvine, California

May 8, 2013



41 Corporate Park, Suite 300
Irvine, CA 92606

Prepared by:

John Kain, AICP
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Prepared for:

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**GREAT PARK NEIGHBORHOODS 2011 GPA/ZC
NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
FEE REALLOCATION STUDY
CITY OF IRVINE, CALIFORNIA**

May 8, 2013

JN:07151-NITM
JK:MW:rd

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**GREAT PARK NEIGHBORHOODS 2011 GPA/ZC
NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
FEE REALLOCATION STUDY
CITY OF IRVINE, CALIFORNIA**

1.0 EXECUTIVE SUMMARY

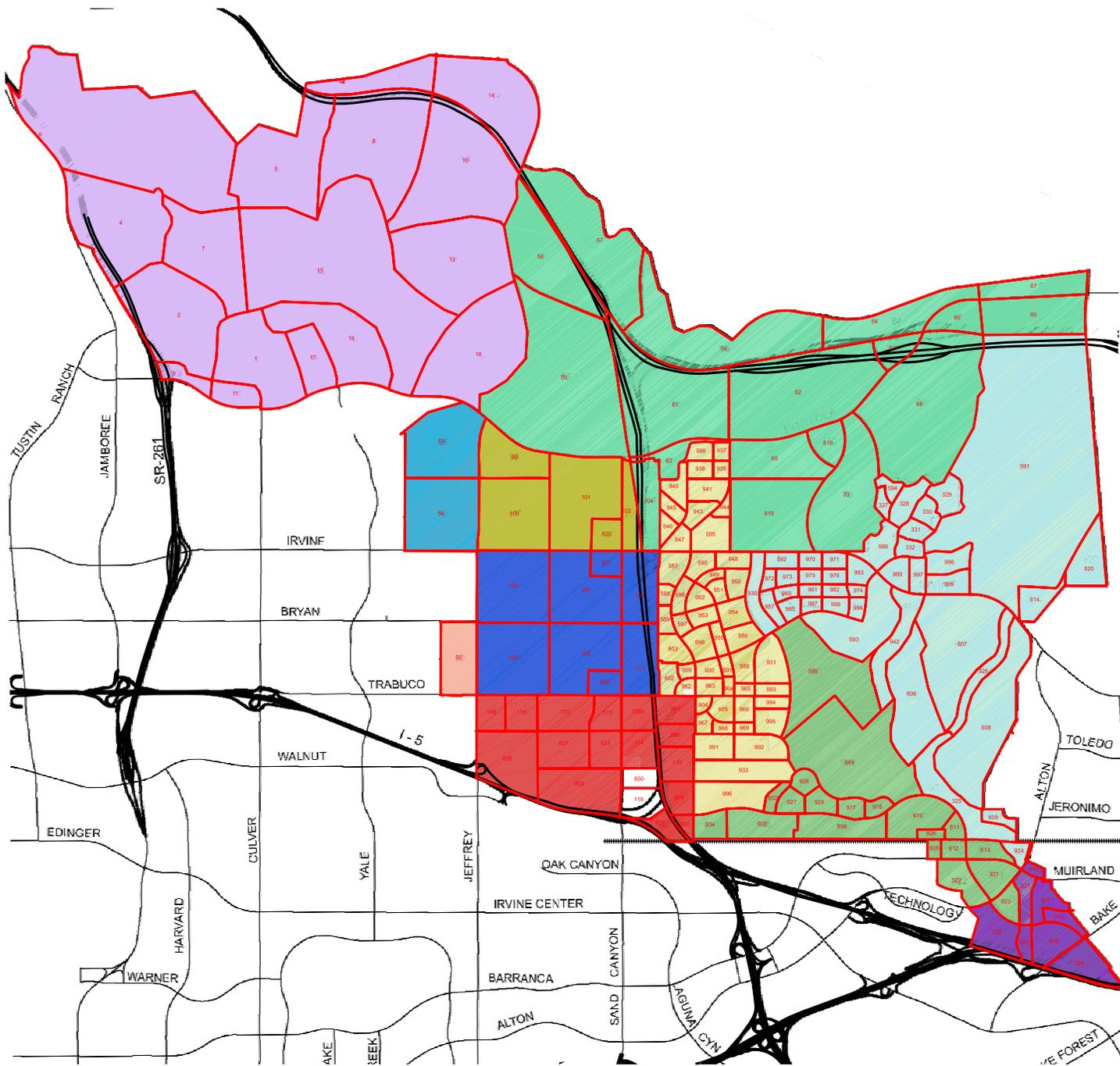
This report summarizes the results of a City of Irvine Great Park Neighborhoods General Plan Amendment/Zone Change (GPA/ZC) North Irvine Transportation Mitigation (NITM) Program Fee Reallocation Study. This Fee Re-allocation Study satisfies the requirement of the City's Ordinance No. 03-20 to prepare a NITM fee update based on the Great Park Neighborhoods 2011 GPA/ZC, and it follows the guidelines outlined in the City of Irvine City Council Resolution No. 03-61 for preparing interim NITM Program reviews for GPA/ZC applications.

1.1 Background

City Council Ordinance No. 03-20 established the NITM Program as a funding mechanism to finance the traffic and transportation improvement mitigation measures identified in the Environmental Impact Reports (EIRs) for three future development projects in north Irvine; 1) PA40, 2) Irvine Northern Sphere Area (PA5B, PA6, PA8A, PA9A and PA9B), and 3) the Orange County Great Park (PA30 and PA51). City of Irvine Planning Area 1 (PA1) is also included in the NITM Future Development Areas, which are illustrated in Exhibit 1-1. The overall traffic and transportation improvements funded by the NITM Program are identified in the List of NITM Improvements, which was originally established in the April 2003 NITM Program Nexus Study. The intent of the NITM Program is to allocate NITM costs (fees) to individual NITM Future Development Areas based on their proportionate traffic impacts. The NITM Program is not intended to fund improvements for circulation system deficiencies that may be caused by developments outside of the NITM Future Development Areas.

The NITM Ordinance requires the City to conduct a complete review of the NITM Program every five years (referred to as Five-Year Reviews) for the purpose of updating cost allocations, proposing alternative NITM improvements, or evaluating the possible elimination of specific NITM improvements that are no longer deemed necessary. The

NITM PROGRAM FUTURE DEVELOPMENT AREAS



LEGEND:

- = PLANNING AREA 40
- = PLANNING AREA 5B (NORTHERN SPHERE AREA)
- = PLANNING AREA 6 (NORTHERN SPHERE AREA)
- = PLANNING AREA 8A (NORTHERN SPHERE AREA)
- = PLANNING AREA 9A (NORTHERN SPHERE AREA)
- = PLANNING AREA 9B (NORTHERN SPHERE AREA)
- = GREAT PARK I
- = GREAT PARK II
- = GREAT PARK III
- = GREAT PARK IV
- = PLANNING AREA 1
- = ITAM 8.4-10 TAZs



ordinance also requires that Interim Reviews be conducted for GPA/ZC projects proposed within one or more NITM Future Development Areas. Since the adoption of the NITM Ordinance in May 2003, an Interim Review was conducted and completed in October 2006 for the PA1/9 GPA/ZC project, a Five-Year Review was conducted with final approval occurring in June 2010, and a NITM Fee Re-Allocation Study was conducted in 2011 for the PA40/12 GPA/ZC project. This NITM fee update based on the Great Park Neighborhoods 2011 GPA/ZC constitutes the 4th Interim Review that has been conducted since the establishment of the NITM Program.

1.2 Analysis Scope and Methodology

The approved analysis scope for the Great Park Neighborhoods NITM Program Fee Re-allocation Study is included in Appendix G and involved two general tasks. The procedures have since been modified in cooperation with NITM Committee members, and are described in Chapter 2. The first task involved developing an updated List of NITM Improvements to apply in the fee reallocation. This was done by reviewing the List of NITM Improvements based on current 2015, 2030 and Post-2030 traffic projections in the NITM traffic analysis study area. The purpose of this level of service (LOS) review was to evaluate whether any NITM Program improvements from the PA40 GPA/ZC Reallocation Study are no longer needed or alternate improvements are appropriate based on the current traffic forecasts. In addition, the LOS review was used to determine the implementation timeframe of the needed NITM improvements and updated accordingly.

A given NITM improvement was considered a candidate for removal from the List of NITM Improvements if the future peak hour levels of service are as follows:

- LOS C or better at fully funded NITM locations;
- LOS C or better for NITM locations within the City of Irvine;
- LOS D or better for fair share funded NITM improvements.

All NITM Program improvements within the City of Lake Forest are retained until the LFTM Program is finalized.

The second task in the work program involved calculating traffic shares for the circulation system improvement locations included in the updated List of NITM Improvements from the first task. The resulting traffic shares served as the basis for allocating the improvement costs for the updated List of NITM Improvements to the NITM Future Development Areas, which in turn provided the overall allocated costs used to recalculate the NITM Fees for each of the NITM Future Development Areas.

Because 100 percent of the NITM Fees for the PA1, PA6, PA8A, PA9A, and PA9B Future Development Areas have already been paid, the fees for those five NITM Future Development Areas were not reallocated (i.e., no changes were made to the amount of fees that have been paid by PA1, PA6, PA8A, PA9A, and PA9B). A portion of the NITM fees for PA40 have also been paid, so that portion of fees was not reallocated. Those FDA's with unpaid NITM fees are subject to the 2012 Caltrans Construction Index (CCI) adjustment.

1.3 List of NITM Improvements and Allocation of Improvement Costs

The intersection, arterial roadway, freeway ramp, freeway mainline and interchange improvements from this assessment are summarized in Table 1-1, and the locations of the NITM improvements are shown in Exhibit 1-2. Table 1-1 is separated according to improvements that are fully funded versus partially funded by the NITM Program. For each improvement, the timeframe (interim year 2015, interim year 2030, or Post-2030 buildout) in which the improvement is needed based on the results of the GPN 2011 GPA/ZC Fee Reallocation study LOS review is also noted in the table. For those cases where a timeframe for implementation is not identified, the LOS review showed that either no deficiencies occurred at the improvement location under 2015, 2030 or Post-2030 conditions without the NITM improvements or the NITM improvements did not improve the level of service when applied. Locations where the NITM improvements have actually been constructed (built) are noted in the table.

The costs of the intersection, arterial roadway, and freeway/tollway mainline, ramp and interchange improvements included in the List of NITM Improvements were reallocated to the NITM Future Development Areas. The reallocation was performed based on NITM

Table 1-1

LIST OF NITM IMPROVEMENTS RESULTING FROM GPN 2011 GPAZC FEE REALLOCATION STUDY

Location	Jurisdiction	Improvements	Timeframe
FULLY FUNDED IMPROVEMENTS IN THE NITM PROGRAM INTERSECTIONS			
34. Red Hill Ave & Irvine Blvd	Tustin	Apply ATMS.	2030
91. Tustin Ranch Rd & Irvine Blvd	Tustin	Apply ATMS.	2030
125. Jamboree Rd & Irvine Blvd	Tustin	Convert southbound free right-turn to fourth through lane.	
222. Culver Dr & Trabuco Rd	Irvine	Add third northbound through lane and improve westbound approach to provide two left-turn lanes and two right-turn lanes.	Built
223. Culver Dr & I-5 southbound ramps	Irvine	Improve eastbound approach to provide three left-turn lanes and two right-turn lanes.	Built
224. Culver Dr & Walnut Ave	Irvine	Apply ATMS.	
235. Culver Dr & University Dr	Irvine	Add second northbound and southbound left-turn lanes and de-facto southbound and eastbound right-turn lanes, convert northbound de-facto right-turn lane to dual right-turn lanes and provide overlap with westbound left-turn.	
249. Yale Ave & Irvine Blvd	Irvine	Add second southbound left-turn lane.	2030
288. Jeffrey Rd & Walnut Ave/ I-5 southbound ramps	Irvine	Add eastbound shared second through lane/second right-turn lane.	
289. Jeffrey Rd & Irvine Center Dr	Irvine	Add fourth northbound and westbound through lanes and third southbound left-turn lane, and convert southbound right-turn lane to fourth through lane.	
291. Jeffrey Rd & Alton Pkwy	Irvine	Add southbound de-facto right-turn lane (2015). Add third eastbound through lane and convert northbound free right-turn lane to standard right-turn lane (no timeframe).	2015
302. Sand Canyon Ave & Trabuco Rd	Irvine	Convert eastbound right-turn lane to a free right-turn lane.	Built
303. Sand Canyon Ave & I-5 northbound ramps/Marine Way	Irvine	Add northbound and southbound through lanes and improve westbound approach.	2030
305. Sand Canyon Ave & I-5 southbound ramps	Irvine	Add northbound and southbound through lanes.	2015
306. Sand Canyon Ave & Oak Canyon/ Laguna Canyon Rd	Irvine	Restripe westbound approach to provide 2 left-turn lanes, 0.5 through lanes and 1.5 right-turn lanes.	2015
310. Sand Canyon Ave & Alton Pkwy	Irvine	Add second northbound right-turn lane or provide northbound free right-turn lane.	
311. Sand Canyon Ave & I-405 northbound ramps	Irvine	Improve westbound approach to provide a left-turn lane, a right-turn lane, and a free right-turn lane.	

Table 1-1 (CONT.)

LIST OF NITM IMPROVEMENTS RESULTING FROM GPN 2011 GPAZC FEE REALLOCATION STUDY

Location	Jurisdiction	Improvements	Timeframe
321. Laguna Canyon Rd & Old Laguna Canyon Rd	Irvine	Add third northbound and southbound through lanes (built). Add third northbound left-turn lane (no timeframe).	
338. Alton Pkwy & Irvine Blvd	Irvine	Designate LOS "E" as acceptable and make a contribution to the City of Irvine TMSOS in an amount equal to the construction cost of the following improvements that would be needed to achieve LOS "D": add fourth westbound through lane and third eastbound left-turn lane (2030). Stripe eastbound approach to provide 2.5 left-turn lanes, 2.5 through lanes and a right-turn lane and modify signal to provide east/west split phasing (no timeframe).	2030
345. Alton Pkwy & I-5 northbound ramps	Irvine	Restripe westbound approach to provide 2.5 left-turn lanes and 0.5 right-turn lanes.	
362. Bake Pkwy & Irvine Blvd	Irvine	Designate LOS "E" as acceptable and make a contribution to the City of Irvine TMSOS (the TMSOS project for this intersection has been completed). Add second northbound left-turn lane (Post-2030). Convert westbound right-turn lane to shared fourth through/right-turn lane and restripe eastbound approach to provide two left-turn lanes, 2.5 through lanes and 1.5 right-turn lanes (no timeframe).	Post-2030
364. Bake Pkwy & Jeronimo Rd	Irvine	Add second northbound left-turn lane (2015). Convert southbound de-facto right-turn lane to fourth through lane (2030). Add third westbound through lane (no timeframe).	2015
368. Bake Pkwy & I-5 southbound ramps	Irvine	Designate LOS "E" as acceptable and make a contribution to the City of Irvine TMSOS in an amount equal to the construction cost of the following improvement that would be needed to achieve LOS "D": add fourth northbound through lane.	
379. Lake Forest Dr & Muirlands Blvd	Lake Forest	Convert northbound right-turn lane to fourth through lane.	

Table 1-1 (CONT.)

LIST OF NITM IMPROVEMENTS RESULTING FROM GPN 2011 GPAZC FEE REALLOCATION STUDY

Location	Jurisdiction	Improvements	Timeframe
383. Lake Forest Dr & Avd de la Carlota/ I-5 southbound ramps	Irvine	Add second westbound left-turn lane and provide westbound right-turn overlap with southbound left-turn, restripe eastbound approach to provide three left-turn lanes, 0.5 through lanes and 1.5 right-turn lanes and apply ATMS. Also, designate LOS "E" as acceptable and make a contribution to the City of Irvine TMSOS in an amount equal to the construction cost of the physical improvements listed here for this intersection.	2015
406. Laguna Canyon Rd & Lake Forest Dr	Irvine	Add third southbound left-turn lane.	2015
407. Laguna Canyon Rd & Bake Pkwy	Irvine	Add third northbound through lane.	Post-2030
INTERCHANGES			
SR-133 at Trabuco Rd	Irvine/ Caltrans/TCA	Construct interchange.	2030
FAIR SHARE FUNDED IMPROVEMENTS IN THE NITM PROGRAM			
INTERSECTIONS			
123. Jamboree Rd & Tustin Ranch Rd	Tustin	Add third northbound and southbound through lanes.	
228. Culver Dr & Barranca Pkwy	Irvine	Convert westbound de-facto right-turn lane to third through lane.	
290. Jeffrey Rd & Barranca Pkwy	Irvine	Add northbound and southbound de-facto right-turn lanes.	
293. Jeffrey Rd & I-405 northbound ramps	Irvine	Add third westbound left-turn.	
327. Barranca Pkwy & Technology Dr	Irvine	Add second southbound left-turn lane and restripe eastbound approach to provide a single left-turn lane, 1.5 through lanes and 1.5 right-turn lanes.	
344. Alton Pkwy & Technology Dr West	Irvine	Restripe westbound approach to provide 2.5 left-turn lanes, 1.5 through lanes and no right-turn lane, restripe eastbound approach to provide 1.5 left-turn lanes, 1.5 through lanes and two right-turn lanes, and modify signal to provide east-west split phasing.	2030
348. Alton Pkwy & Irvine Center Dr	Irvine	Convert northbound right-turn lane to free right-turn lane, add fourth northbound through lane, and restripe westbound approach to provide two left-turn lanes, 2.5 through lanes and 1.5 right-turn lanes.	
358. Irvine Center Dr & Enterprise Dr	Irvine	Add third northbound through lane (PA39 improvement planned by 2030).	2030
359. Irvine Center Dr & I-405 southbound ramps	Irvine	Add third southbound through lane and add third eastbound left-turn lane (PA39 improvements planned by 2030).	2030

Table 1-1 (CONT.)

LIST OF NITM IMPROVEMENTS RESULTING FROM GPN 2011 GPAZC FEE REALLOCATION STUDY

Location	Jurisdiction	Improvements	Timeframe
378. Lake Forest Dr & Jeronimo Rd	Lake Forest	Add second southbound left-turn lane and separate eastbound and westbound right-turn lanes.	2030
380. Lake Forest Dr & Rockfield Blvd	Lake Forest	Restripe westbound approach to provide three left-turn lanes, two through lanes and no right-turn lane.	2030
387. Ridge Route Dr & Rockfield Blvd	Lake Forest	Improve/restripe northbound and southbound approaches to provide 1.5 left-turn lanes, 1.5 through lanes and a de-facto right-turn lane on each approach and modify signal to provide north-south split phasing.	
390. Paseo de Valencia & Avd de la Carlota	Laguna Hills/Laguna Woods	Restripe southbound approach to provide 2.5 left-turn lanes, 1.5 through lanes and no right-turn lane and construct third eastbound receiving lane for the third southbound left-turn lane.	2030
396. El Toro Rd & Avd de la Carlota	Laguna Hills	Restripe westbound approach to provide 0.5 left-turn lanes, 1.5 through with southbound left-turn, and restripe eastbound approach to provide two left-turn lanes, two through lanes and no right-turn lane.	
420. El Toro Rd & Jeronimo Rd	Lake Forest	Add second southbound left-turn lane and eastbound right-turn lane, convert northbound right-turn lane to fourth through lane, and convert southbound de-facto right-turn lane to fourth through lane.	Post-2030
422. Los Alisos Blvd & Jeronimo Rd	Lake Forest/Mission Viejo	Add second eastbound and westbound left-turn lanes.	Built
423. Muirlands Blvd & Los Alisos Blvd	Lake Forest/Mission Viejo	Add eastbound right-turn lane (built). Add second northbound, southbound, eastbound and westbound left-turn lanes (2015)	Built/ 2015
424. Los Alisos Blvd & Rockfield Blvd/Fordview St	Lake Forest	Add second northbound left-turn lane and southbound right-turn lane.	2030
432. Alicia Pkwy & Muirlands Blvd	Mission Viejo	Convert southbound right-turn lane to fourth through lane (built). Add second southbound, westbound and eastbound left-turn lanes (2015).	Built/ 2015
558. Ridge Valley & Irvine Blvd (formerly 557)	Irvine	Add second eastbound left-turn lane.	2015
ROADWAY SEGMENTS			
Jamboree Rd (Portola Pkwy to north Tustin city limits)	Tustin	Improve to six lanes.	Post-2030
Jeffrey Rd (Portola Pkwy to SR-241)	Irvine	Construct as four-lane primary arterial.	Post-2030

Table 1-1 (CONT.)

LIST OF NITM IMPROVEMENTS RESULTING FROM GPN 2011 GPAZC FEE REALLOCATION STUDY

Location	Jurisdiction	Improvements	Timeframe
SR-133 (I-405 to Lake Forest Dr)	Irvine	Improve to six lanes (built).	2015
FREEWAY MAINLINE			
I-5 (Sand Canyon Ave to Jeffrey Rd)	Caltrans	Add sixth northbound mixed-flow (general purpose) lane (2015). Add sixth southbound mixed-flow (general purpose) lane and add a second drop lane from I-5 to the southbound off-ramp at Sand Canyon Avenue (2030).	2015/2030
I-405 (Sand Canyon Ave to Jeffrey Rd)	Caltrans	Add fifth northbound and southbound mixed-flow (general purpose) lanes.	2015
FREEWAY RAMPS			
I-5 at Alton Pkwy (southbound off-ramp)	Caltrans	Add second auxiliary lane from I-5 to the off-ramp.	
I-5 at Bake Pkwy (southbound off-ramp)	Caltrans	Widen connector from I-5 to I-405 exit at Bake Pkwy to two lanes.	2015
I-5 at Culver Dr (southbound off-ramp)	Caltrans	Add second auxiliary lane from I-5 to the off-ramp.	Built
I-5 at El Toro Rd (northbound loop on-ramp)	Caltrans	Convert HOV preferential lane to a second metered mixed-flow lane.	Built
I-5 at El Toro Rd (southbound off-ramp)	Caltrans	Add second auxiliary lane from I-5 to the off-ramp.	2030
I-5 at Jamboree Rd (northbound off-ramp)	Caltrans	Add second drop lane from I-5 to the off-ramp.	2015
I-5 at Jamboree Rd (southbound off-ramp)	Caltrans	Add second drop lane from I-5 to the off-ramp.	Built
I-5 at Jeffrey Rd (southbound on-ramp)	Caltrans	Convert HOV preferential lane to a second metered mixed-flow lane.	2030
I-5 at Sand Canyon Ave (northbound on-ramp)	Caltrans	Convert HOV preferential lane to a second metered mixed-flow lane.	Built
I-405 at Irvine Center (southbound off-ramp)	Caltrans	Add second auxiliary lane from I-405 to the off-ramp.	
I-405 at Jeffrey Rd (northbound off-ramp)	Caltrans	Add second drop lane from I-405 to the off-ramp.	Built
I-405 at Sand Canyon Ave (northbound direct on-ramp)	Caltrans	Convert HOV preferential lane to a second metered mixed-flow lane.	Built
I-405 at Sand Canyon Ave (southbound off-ramp)	Caltrans	Add second drop lane from I-405 to the off-ramp.	2015
SR-133 at Barranca Pkwy (southbound loop on-ramp)	Caltrans	Convert HOV preferential lane to a second metered mixed-flow lane.	2015
INTERCHANGES			
SR-241 at Jeffrey Rd	Irvine/Caltrans/TCA	Construct interchange.	Post-2030

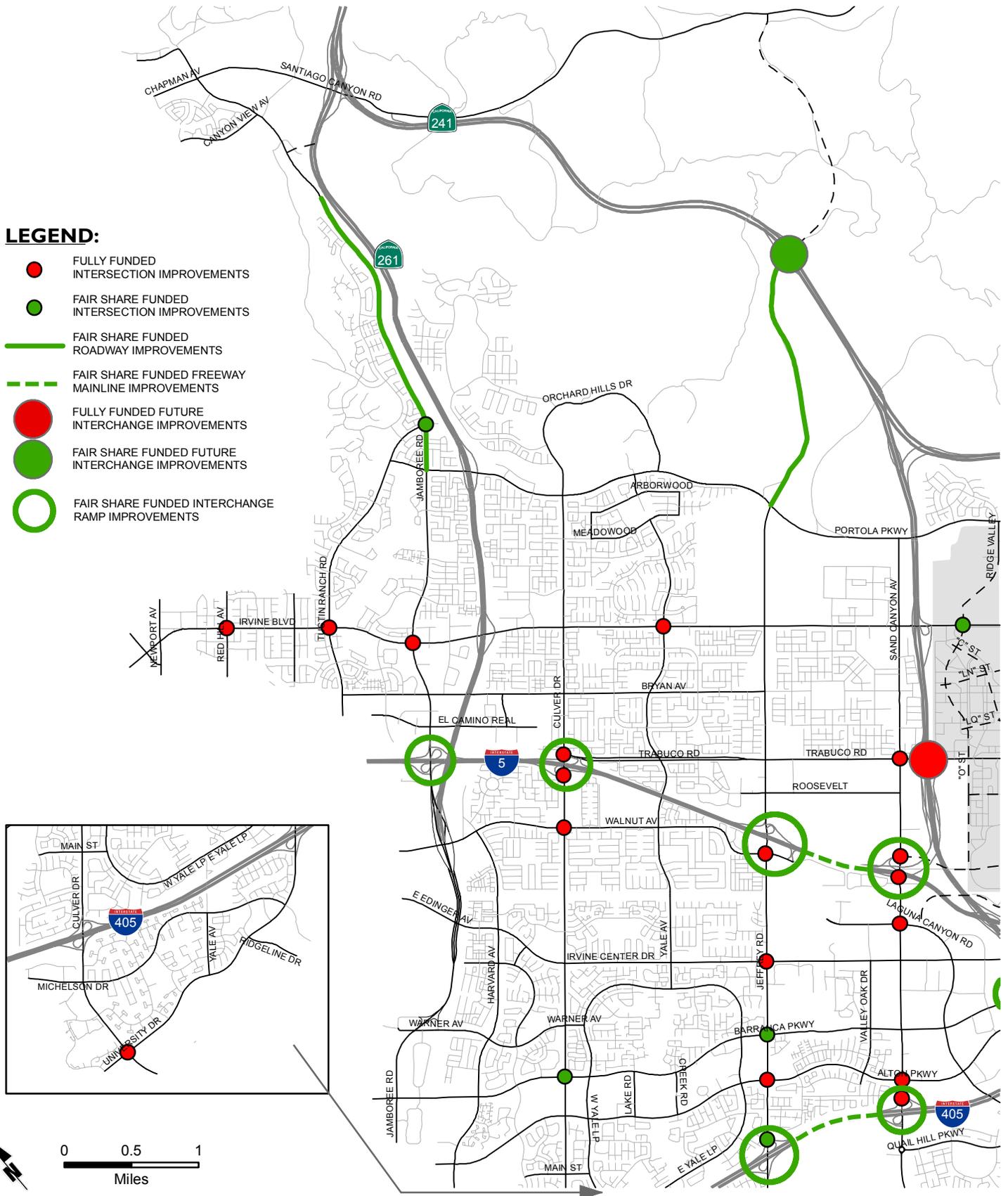
Abbreviations:

ATMS – Advanced Transportation Management System
 NITM – North Irvine Transportation Mitigation (NITM) Program

LOCATIONS INCLUDED IN THE LIST OF NITM IMPROVEMENTS WEST STUDY AREA

LEGEND:

- FULLY FUNDED INTERSECTION IMPROVEMENTS
- FAIR SHARE FUNDED INTERSECTION IMPROVEMENTS
- FAIR SHARE FUNDED ROADWAY IMPROVEMENTS
- - - FAIR SHARE FUNDED FREEWAY MAINLINE IMPROVEMENTS
- FULLY FUNDED FUTURE INTERCHANGE IMPROVEMENTS
- FAIR SHARE FUNDED FUTURE INTERCHANGE IMPROVEMENTS
- FAIR SHARE FUNDED INTERCHANGE RAMP IMPROVEMENTS



improvement cost estimates prepared by Hunsaker Associates and the traffic share data updated to assume the Great Park Neighborhoods 2011 GPA/ZC.

Table 1-2 summarizes the 2012 reallocated NITM Fees based on this Great Park Neighborhoods 2011 GPA/ZC Reallocation Study.

Table 1-2

NITM Updated Fee Allocation Summary (2012 Improvement Costs)

NITM Future Development Area	GPN 2011 GPA/ZC With Fully Funded Adjustments (Table 4-2)
PA 40	\$ 40,664,109
Irvine Northern Sphere Area	
Planning Area 5B	\$ 4,919,327
Planning Area 6	Paid
Planning Area 8A	Paid
Planning Area 9A	Paid
Planning Area 9B	Paid
Orange County Great Park	
Great Park I	\$ 58,878,085
Great Park II	\$ 18,485,370
Great Park III	\$ 7,468,877
Great Park IV	\$ 3,730,692
Overall GP Subtotal	\$ 88,563,193
Planning Area 1	Paid

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2.0 INTRODUCTION

This report summarizes the results of a City of Irvine Great Park Neighborhoods General Plan Amendment/Zone Change (GPA/ZC) North Irvine Transportation Mitigation (NITM) Program Fee Reallocation Study. This Fee Reallocation Study satisfies the requirement of the City's Ordinance No. 03-20 to prepare a NITM fee update based on the Great Park Neighborhoods 2011 GPA/ZC, and it follows the guidelines outlined in the City of Irvine City Council Resolution No. 03-61 for preparing interim NITM Program reviews for GPA/ZC applications.

2.1 Background

City Council Ordinance No. 03-20 established the NITM Program as a funding mechanism to finance the traffic and transportation improvement mitigation measures identified in the Environmental Impact Reports (EIRs) for three future development projects in north Irvine; 1) PA40, 2) Irvine Northern Sphere Area (PA5B, PA6, PA8A, PA9A and PA9B), and 3) the Orange County Great Park (PA30 and PA51). The overall traffic and transportation improvements funded by the NITM Program are identified in the List of NITM Improvements, which was originally established in the April 2003 NITM Program Nexus Study. The intent of the NITM Program is to allocate NITM costs (fees) to individual NITM Future Development Areas based on their proportionate traffic impacts. In addition to the three development areas mentioned previously (PA40, Irvine Northern Sphere Area, and the Orange County Great Park), City of Irvine Planning Area 1 (PA1) is also included in the NITM Future Development Areas. The NITM Program is not intended to fund improvements for circulation system deficiencies that may be caused by developments outside of the NITM Future Development Areas.

The NITM Ordinance requires the City to conduct a complete review of the NITM Program every five years (referred to as Five-Year Reviews) for the purpose of updating cost allocations, proposing alternative NITM improvements, or evaluating the possible elimination of specific NITM improvements that are no longer deemed necessary. The ordinance also requires that Interim Reviews be conducted for GPA/ZC projects proposed within one or more NITM Future Development Areas. Since the adoption of the NITM Ordinance in May 2003, an Interim Review was conducted and completed in October 2006 for the PA1/9 GPA/ZC project, a Five-Year Review was conducted with

final approval occurring in June 2010, and a NITM Fee Reallocation Study was prepared for the PA40/12 GPA/ZC. This NITM fee update based on the Great Park Neighborhoods 2011 GPA/ZC project constitutes the 4th Interim Review that has been conducted since the establishment of the NITM Program.

The NITM Ordinance identifies a NITM Advisory Committee, which is a three-person committee comprised of a City representative, a representative of the owner owning the largest quantity of the undeveloped portions of the property that comprises the Orange County Great Park Future Development Areas, and a representative of the owners of the majority of the remaining Future Development Areas. The Great Park Future Development Areas is represented by Heritage Fields, while the remaining Future Development Areas is represented by The Irvine Company.

2.2 Analysis Scope and Methodology

The analysis scope for the Great Park Neighborhoods NITM Program Fee Reallocation Study involved two general tasks, which are described below.

Task 1: Review List of NITM Improvements

In this work task, the list of NITM improvements has been reviewed based on traffic projections in the Irvine Transportation Analysis Model 8.4-10 (ITAM 8.4-10), February 2012 version, which includes the 2011 Great Park Neighborhoods GPA/ZC development plan. For each ITAM horizon year (2015, 2030 and Post-2030), AM and PM peak hour levels of service without the NITM improvements were calculated for each roadway, intersection, freeway ramp and freeway mainline improvement location included in the current List of NITM Improvements that resulted from the City's recently completed NITM Program Five-Year Review. As required by the NITM Ordinance, the levels of service for the NITM improvement locations were calculated using the same criteria that were applied in the 2003 NITM Program Nexus Study. The criteria, which are listed in Table 2-1, include specifications for calculating average daily traffic (ADT) and peak hour volume/capacity (V/C) ratios for roadway segments, peak hour intersection capacity utilization (ICU) values for intersection locations, and peak hour V/C ratios for freeway/tollway ramps and mainline segments. Appendix E contains the Methodology along with technical notes regarding the ITAM versions used in this study.

Table 2-1

NITM PROGRAM CIRCULATION SYSTEM PERFORMANCE CRITERIA

I. Arterial Roads

V/C Calculation Methodology

Level of service to be based on average daily traffic (ADT) volume/capacity (V/C) ratios calculated using the following capacities:

City of Irvine

Major Arterial	8 lane	72,000
	6 lane	54,000
Primary Arterial	4 lane	32,000
Secondary Arterial	4 lane	28,000
Commuter	2 lane	13,000

City of Orange

Major Arterial	8 lane	75,000
	6 lane	56,300
Primary Arterial	4 lane	37,500
Secondary Arterial	4 lane	24,000
Commuter	2 lane	15,000

County of Orange and Cities of Aliso Viejo, Laguna Hills, Laguna Woods, Lake Forest, Mission Viejo and Tustin

Major Arterial	8 lane	75,000
	6 lane	56,300
Primary Arterial	4 lane	37,500
Secondary Arterial	4 lane	25,000
Commuter	2 lane	12,500

As required by the City of Irvine Link Capacity Analysis guidelines, arterial deficiencies identified based on ADT V/C ratios are to be further examined using peak hour data.

Performance Standard

CMP arterials outside the City of Irvine, PA33 (Spectrum 1/Irvine Center) arterials and Lake Forest commercial streets: Level of Service E (peak hour V/C less than or equal to 1.00).

All other arterials: Level of Service D (peak hour V/C less than or equal to 0.90).

II. Intersections

V/C Calculation Methodology

Level of service to be based on peak hour intersection capacity utilization (ICU) values calculated using the following assumptions:

II. Intersections (cont)

V/C Calculation Methodology (cont)

Saturation Flow Rate: 1,700 vehicles/hour/lane

Clearance Interval: 0.05

Right-Turn-On-Red Utilization Factor*: 0.00 for County of Orange intersections, 0.75 for intersections in all other jurisdictions.

* "De-facto" right-turn lane is assumed in the ICU calculation if 19 feet from edge to outside of through-lane exists and parking is prohibited during peak periods.

Performance Standard

CMP and Irvine Planning Area 33 (Spectrum 1/Irvine Center) intersections, the Bake Parkway/I-5 northbound ramp intersection, and intersections of Lake Forest commercial streets:

Level of Service E (peak hour ICU less than or equal to 1.00).

All other intersections: Level of Service D (peak hour ICU less than or equal to 0.90).

III. Freeway/Tollway Mainline Segments

V/C Calculation Methodology

Level of service to be based on peak hour V/C ratios calculated using the following capacities:

2,000 vehicles per hour per lane (vphpl) for mixed-flow (general purpose) lanes.

1,600 vphpl for a one-lane buffer-separated HOV facility.

1,750 vphpl for a two-lane buffer-separated HOV facility.

Performance Standard

Level of Service E (peak hour V/C less than or equal to 1.00).

IV. Freeway/Tollway Ramps

V/C Calculation Methodology

Level of service to be based on peak hour V/C ratios calculated using the following capacities:

Metered On-Ramps

A maximum capacity of 900 vehicles per hour (vph) for a one-lane metered on-ramp with only one mixed-flow lane at the meter.

IV. Freeway/Tollway Ramps (cont)

V/C Calculation Methodology (cont)

Metered On-Ramps (cont)

A maximum capacity of 1,080 (20 percent greater than 900) vph for a one-lane metered on-ramp with one mixed-flow lane at the meter plus one high occupancy vehicle (HOV) preferential lane at the meter.

A maximum capacity of 1,500 vph for a one-lane metered on-ramp with two mixed-flow lanes at the meter.

A maximum capacity of 1,800 vph for a two-lane metered on-ramp with two mixed-flow lanes at the meter.

Toll Ramps (On-Ramps and Off-Ramps)

A maximum capacity of 1,500 vph for a one-lane toll ramp with one cash (stopped) lane and one FasTrak (unstopped) lane.

Non-Metered and Non-Tolled On-Ramps and Off-Ramps

A maximum capacity of 1,500 vph for a one-lane ramp.

A maximum capacity of 2,250 (50 percent greater than 1,500) vph for a two-lane onramp that tapers to one merge lane at or beyond the freeway mainline gore point and for a two-lane off-ramp with only one auxiliary lane.

A maximum capacity of 3,000 vph for a two-lane on-ramp that does not taper to one merge lane and for a two-lane off-ramp with two auxiliary lanes.

Performance Standard

Level of Service E (peak hour V/C less than or equal to 1.00).

Abbreviations: CMP – Orange County Congestion Management Program

The purpose of this level of service (LOS) review was to evaluate whether any NITM Program improvements from the PA40 GPA/ZC NITM Program Fee Reallocation study are no longer needed or alternate improvements are appropriate based on the current ITAM 8.4-10 traffic forecasts. In addition, the LOS review was used to determine the implementation timeframe of the NITM improvements and update accordingly. A given NITM improvement is considered a candidate for removal from the List of NITM Improvements if the future peak hour levels of service are as follows:

- LOS C or better at fully funded NITM locations;
- LOS C or better for NITM locations within the City of Irvine;
- LOS D or better for fair share funded NITM improvements.

NITM Program improvements within the City of Lake Forest are retained until the LFTM program is finalized.

Levels of service without the NITM improvements were calculated for each NITM improvement location starting with year 2015 traffic forecast data and then the criteria outlined above was applied to determine which, if any, improvement locations are potential candidates for deletion from the NITM Program. Improvements found to no longer be necessary based on 2015 conditions were re-evaluated under subsequent scenarios (2030 and Post-2030). Only those NITM improvements that met the deletion criteria in all three forecast years (2015, 2030 and Post-2030) were considered actual candidates for possible deletion from the NITM Program.

Task 2: Traffic Share Calculations and Reallocation of Improvement Costs

In this work task, traffic shares for the circulation system improvement locations that are included in the List of NITM Improvements from Task 1 were calculated and then used to recalculate NITM Fees for the NITM Future Development Areas. Per the requirements of City Resolution No. 03-61 Section III D5 and E4 of the NITM Scope of Work for Comprehensive NITM Traffic Studies, the traffic shares for each NITM improvement location were determined based on ITAM ADT select link analysis procedures using the

same Post-2025 version of ITAM that was applied in the PA40 GPA/ZC NITM Program Fee Reallocation study, which was completed in 2011.

For calculating the ADT select link-based traffic shares for this study, the only changes that were made to the Post-2025 ITAM model that was applied in the PA40 GPA/ZC NITM Program Fee Reallocation study was to replace the land use and on-site circulation system with the approved land use/circulation plan included within the approved 2011 GPA/ZC. All land use and circulation system assumptions outside of the NITM Future Development Areas were unchanged. The resulting traffic shares served as the basis for allocating the improvement costs for the List of NITM Improvements to the NITM Future Development Areas, which in turn provided the overall allocated costs used to recalculate the NITM Fees for each of the NITM Future Development Areas.

In this study, reallocated NITM fees were calculated for the following steps:

- **Step 1 – Update 2010 Improvement Costs:** The 2010 Improvement Costs for the List of NITM Improvements from the PA 40 Fee Re-Allocation Study are updated based on the corrected Caltrans Construction Index (CCI) published 10/25/10. The 2010 improvement costs applied to each NITM location were prepared by Hunsaker and Associates and are included in Appendix C-2. The overall results of Step 1 are included in Appendix Table D-1.
- **Step 2 – Update NITM Fees for 2011:** The Improvement Costs calculated in Step 1 are then updated based on the 2011 CCI and 2011 right-of-way costs according to the NITM Ordinance and then allocated to the NITM Future Development Areas (FDAs) using the Post-2025 ITAM traffic shares from the PA 40/12 Fee Re-Allocation Study. The resulting data establishes the 2011 update to the NITM FDA Fees and assumes no 2011 Great Park Neighborhoods GPA/ZC. The 2011 improvement costs applied to each NITM location were prepared by Hunsaker and Associates and are included in Appendix C-3. The overall results of Step 2 are included in Appendix Table D-2.
- **Step 3 –Re-Allocate 2011 Improvement Costs and Update NITM Fees:** The updated improvement costs calculated in Step 2 for the List of NITM improvements from the PA 40 Fee Re-Allocation Study are then allocated to the NITM FDAs using the Post-2025 ITAM traffic shares that assume the Great Park Neighborhoods

GPA/ZC land use revisions. The overall results of Step 3 are included in Appendix Table D-3.

- **Step 4 – Initial Reallocation of NITM Fees for 2012:** The improvement costs calculated in Steps 2 and 3 are then updated based on the 2012 CCI and 2012 right-of-way costs according to the NITM Ordinance. Fees are then initially determined for the NITM FDAs using the Post-2025 ITAM traffic shares from this reallocation study. The 2012 improvement costs applied to each NITM location were prepared by Hunsaker and Associates and are included in Appendix C-4. The overall fee allocation results of Step 4 are included in Appendix Table D-4.
- **Step 5 – Adjust Fully Funded Improvement Allocations:** Because the initial reallocation results for fully funded improvement from Step 4 yield fee differences in FDAs which are not a part of the GP-I through GP-IV or PA 40, further adjustments are necessary. Appendix F describes the methodology for adjusting the fully funded cost shares of PA40 and the Orange County Great Park (OCGP) FDAs, and analysis results are further explained in Chapter 4 of this report.

Because 100 percent of the NITM Fees for the PA1, PA6, PA8A, PA9A, and PA9B Future Development Areas have already been paid, the fees for those NITM Future Development Areas were not re-allocated (i.e., no changes were made to the amount of fees that have been paid by PA1, PA6, PA8A, PA9A, and PA9B). A portion of PA40 NITM fees has also been paid (the portion between Jeffrey Road and Sand Canyon Avenue), so only a portion of the PA 40 fees are subject to re-allocation.

2.3 Current List of NITM Improvements

The intersection, arterial roadway, freeway ramp, freeway mainline and interchange improvements included in the List of NITM Improvements are summarized in Table 2-2. The table is separated according to improvements that are fully funded versus partially (i.e., fair share) funded by the NITM Program. For each improvement, the timeframe in which the improvement is needed based on the results of the PA40/12 Fee Reallocation study is also noted in the summary table. For locations where the NITM improvements have actually been constructed, “built” is entered as the timeframe rather than the horizon year identified in the PA40 GPA/ZC NITM Program Fee Reallocation study. For those cases where a needed timeframe for implementation is not identified, the PA40

Table 2-2

LIST OF NITM IMPROVEMENTS FROM PA 40/12 FEE RE-ALLOCATION STUDY

Location	Jurisdiction	Improvements	Timeframe
FULLY FUNDED IMPROVEMENTS IN THE NITM PROGRAM			
INTERSECTIONS			
34. Red Hill Ave & Irvine Blvd	Tustin	Apply ATMS.	2015
91. Tustin Ranch Rd & Irvine Blvd	Tustin	Apply ATMS.	2030
125. Jamboree Rd & Irvine Blvd	Tustin	Convert southbound free right-turn to fourth through lane.	
222. Culver Dr & Trabuco Rd	Irvine	Add third northbound through lane and improve westbound approach to provide two left-turn lanes and two right-turn lanes.	Built
223. Culver Dr & I-5 southbound ramps	Irvine	Improve eastbound approach to provide three left-turn lanes and two right-turn lanes.	Built
224. Culver Dr & Walnut Ave	Irvine	Apply ATMS.	
235. Culver Dr & University Dr	Irvine	Add second northbound and southbound left-turn lanes and de-facto southbound and eastbound right-turn lanes, convert northbound de-facto right-turn lane to dual right-turn lanes and provide overlap with westbound left-turn.	
249. Yale Ave & Irvine Blvd	Irvine	Add second southbound left-turn lane.	2030
288. Jeffrey Rd & Walnut Ave/ I-5 southbound ramps	Irvine	Add eastbound shared second through lane/second right-turn lane.	
289. Jeffrey Rd & Irvine Center Dr	Irvine	Add fourth northbound and westbound through lanes and third southbound left-turn lane, and convert southbound right-turn lane to fourth through lane.	
291. Jeffrey Rd & Alton Pkwy	Irvine	Add southbound de-facto right-turn lane (2015). Add third eastbound through lane and convert northbound free right-turn lane to standard right-turn lane (no timeframe).	2015
302. Sand Canyon Ave & Trabuco Rd	Irvine	Convert eastbound right-turn lane to a free right-turn lane.	Built
303. Sand Canyon Ave & I-5 northbound ramps/Marine Way	Irvine	Add northbound and southbound through lanes and improve westbound approach.	2030
305. Sand Canyon Ave & I-5 southbound ramps	Irvine	Add northbound and southbound through lanes.	2030
306. Sand Canyon Ave & Oak Canyon/Laguna Canyon Rd	Irvine	Restripe westbound approach to provide 2 left-turn lanes, 0.5 through lanes and 1.5 right-turn lanes.	2015
310. Sand Canyon Ave & Alton Pkwy	Irvine	Add second northbound right-turn lane or provide northbound free right-turn lane.	

Table 2-2 (Cont.)

LIST OF NITM IMPROVEMENTS FROM PA 40/12 FEE RE-ALLOCATION STUDY

Location	Jurisdiction	Improvements	Timeframe
311. Sand Canyon Ave & I-405 northbound ramps	Irvine	Improve westbound approach to provide a left-turn lane, a right-turn lane, and a free right-turn lane.	
321. Laguna Canyon Rd & Old Laguna Canyon Rd	Irvine	Add third northbound and southbound through lanes (under construction). Add third northbound left-turn lane (no timeframe).	
338. Alton Pkwy & Irvine Blvd	Irvine	Designate LOS "E" as acceptable and make a contribution to the City of Irvine TMSOS in an amount equal to the construction cost of the following improvements that would be needed to achieve LOS "D": add fourth westbound through lane and third eastbound left-turn lane (2030). Stripe eastbound approach to provide 2.5 left-turn lanes, 2.5 through lanes and a right-turn lane and modify signal to provide east/west split phasing (no timeframe).	2030
345. Alton Pkwy & I-5 northbound ramps	Irvine	Restripe westbound approach to provide 2.5 left-turn lanes and 0.5 right-turn lanes.	
362. Bake Pkwy & Irvine Blvd	Irvine	Designate LOS "E" as acceptable and make a contribution to the City of Irvine TMSOS (the TMSOS project for this intersection has been completed). Add second northbound left-turn lane (Post-2030). Convert westbound right-turn lane to shared fourth through/right-turn lane and restripe eastbound approach to provide two left-turn lanes, 2.5 through lanes and 1.5 right-turn lanes (no timeframe).	Post-2030
364. Bake Pkwy & Jeronimo Rd	Irvine	Add second northbound left-turn lane (2015). Convert southbound de-facto right-turn lane to fourth through lane (2030). Add third westbound through lane (no timeframe).	2015/2030
368. Bake Pkwy & I-5 southbound ramps	Irvine	Designate LOS "E" as acceptable and make a contribution to the City of Irvine TMSOS in an amount equal to the construction cost of the following improvement that would be needed to achieve LOS "D": add fourth northbound through lane.	
379. Lake Forest Dr & Muirlands Blvd	Lake Forest	Convert northbound right-turn lane to fourth through lane.	
383. Lake Forest Dr & Avd de la Carlota/ I-5 southbound ramps	Irvine	Add second westbound left-turn lane and provide westbound right-turn overlap with southbound left-turn, restripe eastbound approach to provide three left-turn lanes, 0.5 through lanes and 1.5 right-turn lanes and apply ATMS. Also, designate LOS "E" as acceptable and make a contribution to the City of Irvine TMSOS in an amount equal to the construction cost of the physical improvements listed here for this intersection.	

Table 2-2 (Cont.)

LIST OF NITM IMPROVEMENTS FROM PA 40/12 FEE RE-ALLOCATION STUDY

Location	Jurisdiction	Improvements	Timeframe
406. Laguna Canyon Rd & Lake Forest Dr	Invine	Add third southbound left-turn lane (PA18 improvement planned by 2015).	2015
407. Laguna Canyon Rd & Bake Pkwy	Invine	Add third northbound through lane.	Post-2030
INTERCHANGES			
SR-133 at Trabuco Rd	Invine/ Caltrans/TCA	Construct interchange.	2030
FAIR SHARE FUNDED IMPROVEMENTS IN THE NITM PROGRAM			
INTERSECTIONS			
123. Jamboree Rd & Tustin Ranch Rd	Tustin	Add third northbound and southbound through lanes.	Post-2030
228. Culver Dr & Barranca Pkwy	Invine	Convert westbound de-facto right-turn lane to third through lane.	
290. Jeffrey Rd & Barranca Pkwy	Invine	Add northbound and southbound de-facto right-turn lanes.	
293. Jeffrey Rd & I-405 northbound ramps	Invine	Add third westbound left-turn.	
327. Barranca Pkwy & Technology Dr	Invine	Add second southbound left-turn lane and restripe eastbound approach to provide a single left-turn lane, 1.5 through lanes and 1.5 right-turn lanes.	
344. Alton Pkwy & Technology Dr West	Invine	Restripe westbound approach to provide 2.5 left-turn lanes, 1.5 through lanes and no right-turn lane, restripe eastbound approach to provide 1.5 left-turn lanes, 1.5 through lanes and two right-turn lanes, and modify signal to provide east-west split phasing.	2030
348. Alton Pkwy & Irvine Center Dr	Invine	Convert northbound right-turn lane to free right-turn lane, add fourth northbound through lane, and restripe westbound approach to provide two left-turn lanes, 2.5 through lanes and 1.5 right-turn lanes.	
358. Irvine Center Dr & Enterprise Dr	Invine	Add third northbound through lane (PA39 improvement planned by 2030).	2030
359. Irvine Center Dr & I-405 southbound ramps	Invine	Add third southbound through lane and add third eastbound left-turn lane (PA39 improvements planned by 2030).	2030
378. Lake Forest Dr & Jeronimo Rd	Lake Forest	Add second southbound left-turn lane and separate eastbound and westbound right-turn lanes.	
380. Lake Forest Dr & Rockfield Blvd	Lake Forest	Restripe westbound approach to provide three left-turn lanes, two through lanes and no right-turn lane.	
387. Ridge Route Dr & Rockfield Blvd	Lake Forest	Improve/restripe northbound and southbound approaches to provide 1.5 left-turn lanes, 1.5 through lanes and a de-facto right-turn lane on each approach and modify signal to provide north-south split phasing.	

Table 2-2 (Cont.)

LIST OF NITM IMPROVEMENTS FROM PA 40/12 FEE RE-ALLOCATION STUDY

Location	Jurisdiction	Improvements	Timeframe
390. Paseo de Valencia & Avd de la Carlota	Laguna Hills/Laguna Woods	Restripe southbound approach to provide 2.5 left-turn lanes, 1.5 through lanes and no right-turn lane and construct third eastbound receiving lane for the third southbound left-turn lane.	2030
396. El Toro Rd & Avd de la Carlota	Laguna Hills	Restripe westbound approach to provide 0.5 left-turn lanes, 1.5 through with southbound left-turn, and restripe eastbound approach to provide two left-turn lanes, two through lanes and no right-turn lane.	
420. El Toro Rd & Jeronimo Rd	Lake Forest	Add second southbound left-turn lane and eastbound right-turn lane, convert northbound right-turn lane to fourth through lane, and convert southbound de-facto right-turn lane to fourth through lane.	
422. Los Alisos Blvd & Jeronimo Rd	Lake Forest/Mission Viejo	Add second eastbound and westbound left-turn lanes.	Built
423. Muirlands Blvd & Los Alisos Blvd	Lake Forest/Mission Viejo	Add eastbound right-turn lane (built).	Built / No timeframe
424. Los Alisos Blvd & Rockfield Blvd/Fordview St	Lake Forest	Add second northbound, southbound, eastbound and westbound left-turn lanes (no timeframe).	
432. Alicia Pkwy & Muirlands Blvd	Mission Viejo	Add second northbound left-turn lane and southbound right-turn lane.	
558. Ridge Valley & Irvine Blvd (formerly 557)	Irvine	Convert southbound right-turn lane to fourth through lane (built). Add second southbound, westbound and eastbound left-turn lanes (2015).	Built/ 2015
		Add second eastbound left-turn lane.	
ROADWAY SEGMENTS			
Jamboree Rd (Portola Pkwy to north Tustin city limits)	Tustin	Improve to six lanes.	Post-2030
Jeffrey Rd (Portola Pkwy to SR-241)	Irvine	Construct as four-lane primary arterial.	Post-2030
SR-133 (I-405 to Lake Forest Dr)	Irvine	Improve to six lanes (under construction).	2015
FREEWAY MAINLINE			
I-5 (Sand Canyon Ave to Jeffrey Rd)	Caltrans	Add sixth northbound mixed-flow (general purpose) lane (2015). Add sixth southbound mixed-flow (general purpose) lane and add a second drop lane from I-5 to the southbound off-ramp at Sand Canyon Avenue (2030).	2015/2030
I-405 (Sand Canyon Ave to Jeffrey Rd)	Caltrans	Add fifth northbound and southbound mixed-flow (general purpose) lanes.	2015

Table 2-2 (Cont.)

LIST OF NITM IMPROVEMENTS FROM PA 40/12 FEE RE-ALLOCATION STUDY

Location	Jurisdiction	Improvements	Timeframe
FREEWAY RAMPS			
I-5 at Alton Pkwy (southbound off-ramp)	Caltrans	Add second auxiliary lane from I-5 to the off-ramp.	
I-5 at Bake Pkwy (southbound off-ramp)	Caltrans	Widen connector from I-5 to I-405 exit at Bake Pkwy to two lanes.	2015
I-5 at Culver Dr (southbound off-ramp)	Caltrans	Add second auxiliary lane from I-5 to the off-ramp.	Built
I-5 at El Toro Rd (northbound loop on-ramp)	Caltrans	Convert HOV preferential lane to a second metered mixed-flow lane.	Built
I-5 at El Toro Rd (southbound off-ramp)	Caltrans	Add second auxiliary lane from I-5 to the off-ramp.	2030
I-5 at Jamboree Rd (northbound off-ramp)	Caltrans	Add second drop lane from I-5 to the off-ramp.	2030
I-5 at Jamboree Rd (southbound off-ramp)	Caltrans	Add second drop lane from I-5 to the off-ramp.	Built
I-5 at Jeffrey Rd (southbound on-ramp)	Caltrans	Convert HOV preferential lane to a second metered mixed-flow lane.	2030
I-5 at Sand Canyon Ave (northbound on-ramp)	Caltrans	Convert HOV preferential lane to a second metered mixed-flow lane.	Built
I-405 at Irvine Center (southbound off-ramp)	Caltrans	Add second auxiliary lane from I-405 to the off-ramp.	
I-405 at Jeffrey Rd (northbound off-ramp)	Caltrans	Add second drop lane from I-405 to the off-ramp.	Built
I-405 at Sand Canyon Ave (northbound direct on-ramp)	Caltrans	Convert HOV preferential lane to a second metered mixed-flow lane.	Built
I-405 at Sand Canyon Ave (southbound off-ramp)	Caltrans	Add second drop lane from I-405 to the off-ramp.	2015
SR-133 at Barranca Pkwy (southbound loop on-ramp)	Caltrans	Convert HOV preferential lane to a second metered mixed-flow lane.	2015
INTERCHANGES			
SR-241 at Jeffrey Rd	Irvine/Caltrans/TCA	Construct interchange.	Post-2030

Abbreviations:

- ATMS – Advanced Transportation Management System
- NITM – North Irvine Transportation Mitigation (NITM) Program

GPA/ZC NITM Program Fee Reallocation study showed that either no deficiencies occurred at the improvement location under 2015, 2030 or Post-2030 conditions without the NITM improvements or the NITM improvements did not improve the location to an acceptable level of service when applied. A detailed summary of existing lane configurations and 2015 and 2030 committed and Post-2030 non-committed lane improvements for the intersection improvement locations included in the List of NITM Improvements is provided in Appendix B.

The List of NITM Improvements summarized here is based on the original list of improvements established in the April 30, 2003 NITM Program Nexus Study but with updates that have occurred based on the PA1/9 GPA/ZC NITM Program Interim Review (completed in October 2006), the City's NITM Program Five-Year Review (completed in June 2010), and PA40 GPA/ZC NITM Program Fee Reallocation study (completed in 2011). Table 2-3 lists the NITM improvements that these three studies found were no longer needed and that were therefore deleted from the List of NITM Improvements.

The NITM Program improvements listed below have been constructed or are under construction and are therefore assumed as baseline improvements in place by 2015 (i.e., no review of future traffic conditions without these improvements was conducted in this study):

- **Intersection #222. Culver Drive & Trabuco Road (City of Irvine):** Constructed – The addition of a third northbound through lane and the improvement of the westbound approach to provide two left-turn lanes and two right-turn lanes.
- **Intersection #223. Culver Drive & I-5 Southbound Ramps (City of Irvine):** Constructed - The improvement of the eastbound approach to provide three left-turn lanes and two right-turn lanes (constructed as part of the OCTA/Caltrans southbound I-5 auxiliary lane project between Jamboree Road and Culver Drive).
- **Intersection #302. Sand Canyon Avenue & Trabuco Road (City of Irvine):** Constructed - The conversion of the eastbound right-turn lane to a free right-turn lane.
- **Intersection #321. Laguna Canyon Road (SR-133) and Old Laguna Canyon Road (City of Irvine):** Constructed - The addition of third northbound and southbound through lanes.

TABLE 2-3

DELETIONS FROM THE LIST OF NITM IMPROVEMENTS

Location	Jurisdiction	Deleted Improvements	Deletion Study
FULLY FUNDED NITM PROGRAM IMPROVEMENTS			
INTERSECTIONS			
127. Jamboree Rd & El Camino Real	Tustin	Add westbound right-turn lane or apply ATMS.	2010 Five-Year Review
222. Culver Dr & Trabuco Rd	Irvine	Add second southbound left-turn lane (note that the following other NITM improvements at this intersection have been built: add third northbound through lane and improve westbound approach to provide two left-turn lanes and two right-turn lanes).	2006 PA1/9 GPA Interim Review
285. Jeffrey Rd & Trabuco Rd	Irvine	Apply ATMS.	2010 Five-Year Review
341. Alton Pkwy & Barranca Pkwy/ Muirlands Blvd	Irvine	Restripe eastbound approach to provide 2.5 left-turn lanes, 1.5 through lanes and no right-turn lane and modify signal to provide east/west split phasing.	2010 Five-Year Review
366. Bake Pkwy & Rockfield Blvd	Irvine	Restripe westbound approach to provide 2.5 left-turn lanes, 1.5 through lanes and a free right-turn lane and modify signal to provide east-west split phasing.	2006 PA1/9 GPA Interim Review
407. Laguna Canyon Rd & Bake Pkwy	Irvine	Add second and third southbound left-turn lanes, and modify westbound approach to provide two left-turn lanes and a free right-turn lane (note that the following other NITM improvement remains in the NITM Program: add third northbound through lane).	2010 Five-Year Review
FAIR SHARE FUNDED NITM PROGRAM IMPROVEMENTS			
INTERSECTIONS			
385. Lake Forest Dr & Irvine Center Dr	Irvine	Designate LOS "E" as acceptable and make a contribution to the City of Irvine TMSOS in an amount equal to the construction cost of the following improvement that would be needed to achieve LOS "D": convert eastbound de-facto right-turn lane to fourth through lane.	2010 Five-Year Review
389. Ridge Route Dr & Moulton Pkwy	Laguna Hills/ Laguna Woods	Restripe northbound approach to provide one left-turn lane, 1.5 through lanes and 1.5 right-turn lanes.	2010 Five-Year Review
391. Santa Maria Ave & Moulton Pkwy	Laguna Hills/ Laguna Woods	Convert eastbound right-turn lane to fourth through lane and add fourth westbound through lane.	2010 Five-Year Review
421. Los Alisos Blvd & Trabuco Rd	Mission Viejo	Add second northbound left-turn lane and delete northbound de-facto right-turn lane.	2010 Five-Year Review
427. Moulton Pkwy & Glenwood Dr/ Indian Creek Ln	Aliso Viejo/ Laguna Hills	Add fourth northbound through lane.	2010 Five-Year Review
429. Moulton Pkwy & Laguna Hills Dr	Aliso Viejo/ Laguna Hills	Restripe eastbound approach to provide three left-turn lanes, two through lanes and one right-turn lane.	2010 Five-Year Review

TABLE 2-3

DELETIONS FROM THE LIST OF NITM IMPROVEMENTS (CONT.)

Location	Jurisdiction	Deleted Improvements	Deletion Study
FREEWAY/TOLLWAY RAMPS			
SR-241 at Lake Forest Dr (southbound off-ramp)	Caltrans/TCA	Add second drop lane from SR-241 to the off-ramp.	2010 Five-Year Review

Abbreviations:

- ATMS – Advanced Transportation Management System
- LOS – Level of Service
- NITM – North Irvine Transportation Mitigation (NITM)
- TCA – Transportation Corridor Agencies
- TMSOS – Traffic Management Systems Operation Study

- **Intersection #362. Bake Parkway and Irvine Boulevard (City of Irvine):** Completed – The Traffic Management Systems Operation Study (TMSOS) project at this intersection has been completed; hence LOS E has been designated as acceptable at this intersection.
- **Intersection #406. Laguna Canyon Road and Lake Forest Drive (City of Irvine):** Constructed - the NITM improvement to add a third southbound left-turn lane, including the third eastbound through lane on Lake Forest Drive, has been constructed but only striped as a second southbound left-turn lane at this time.
- **Intersection #422. Los Alisos Boulevard and Jeronimo Road (City of Lake Forest/City of Mission Viejo):** Constructed – Add second eastbound and westbound left turn lanes.
- **Intersection #423. Muirlands Boulevard and Los Alisos Boulevard (City of Lake Forest/City of Mission Viejo):** Constructed – The addition of an eastbound right-turn lane. Remaining improvements include construction of second northbound, southbound, eastbound, and westbound left turn lanes.
- **Intersection #432. Alicia Parkway & Muirlands Boulevard (City of Mission Viejo):** Constructed – The conversion of the southbound right-turn lane to a fourth through lane. Remaining improvements include construction of second southbound, eastbound, and westbound left turn lanes.
- **Intersection #558 (formerly #557). Ridge Valley & Irvine Blvd:** Under Construction – Add second eastbound left-turn lane.
- **SR-133 (Laguna Canyon Road) from I-405 Freeway to Lake Forest Drive (City of Irvine):** Under Construction – Improvement to six lanes (three northbound and three southbound).
- **I-5 Southbound Off-Ramp at Culver Drive (Caltrans):** Constructed – The addition of a second drop lane from I-5 to the off-ramp.
- **I-5 Northbound Loop On-Ramp at El Toro Road (Caltrans):** Constructed – The conversion of the high-occupancy vehicle (HOV) preferential lane to a second metered mixed-flow lane.
- **I-5 Southbound Off-Ramp at Jamboree Road (Caltrans):** – The addition of a second drop lane from I-5 to the off-ramp.
- **I-5 Northbound On-Ramp at Sand Canyon Avenue (Caltrans):** Constructed – The conversion of the HOV preferential lane to a second metered mixed-flow lane.
- **I-405 Northbound Off-Ramp at Jeffrey Road (Caltrans):** Constructed – The addition of a second drop lane from I-405 to the off-ramp.

Also, the NITM Program improvements listed below are planned to be constructed in association with approved development that will occur by 2015 or 2030 and these improvements are therefore assumed as baseline improvements in place by 2015 or 2030 (i.e., no review of future traffic conditions without these improvements was conducted in this study):

- **Intersection #303. Sand Canyon Avenue and I-5 Northbound Ramps/Marine Way (City of Irvine):** The NITM improvement to improve the westbound approach at this intersection will be constructed by 2030 in association with the planned realignment of Marine Way by the Orange County Great Park.
- **Intersection #358. Irvine Center Drive and Enterprise Drive (City of Irvine):** The NITM improvement to add a third northbound through lane will be constructed by 2030 in association with the planned development in City of Irvine Planning Area 39 (PA39).
- **Intersection #359. Irvine Center Drive and I-405 Southbound Ramps (City of Irvine):** The NITM improvements to add a third southbound through lane and a third eastbound left-turn lane will be constructed by 2030 in association with the planned development in City of Irvine Planning Area 39 (PA39).

3.0 REVIEW OF THE LIST OF NITM IMPROVEMENTS

In this chapter, the circulation system improvements that are included in the current List of NITM Improvements are reviewed based on year 2015, year 2030 and Post-2030 traffic forecasts. The traffic forecast data applied in the review is taken from the Irvine Transportation Analysis Model 8.4-10 (ITAM 8.4-10), February 2012 version, which assumes the approved Great Park Neighborhoods development plan from the Great Park Neighborhoods 2011 GPA/ZC. The ITAM 8.4-10 land use assumptions for the NITM Program Future Development Areas and background circulation system assumptions in the NITM traffic analysis study area are summarized first. Summaries are then provided of the 2015, 2030 and Post-2030 peak hour levels of service for each intersection, freeway ramp and freeway mainline improvement location included in the current List of NITM Improvements, and improvement locations that are candidates for deletion from the List of NITM Improvements based on the criteria described earlier in Chapter 1.0 are identified.

3.1 NITM Program Future Development Area Land Use Assumptions

Exhibit 3-1 illustrates the locations of the NITM Program Future Development Areas, and Table 3-1 summarizes the ITAM 8.4-10 NITM Future Development Area land use assumptions for year 2015, year 2030 and Post-2030. Included in Table 3-1 are average daily traffic (ADT) trip generation estimates generally based on the land use trip rates applied in the April 30, 2003 NITM Program Nexus Study. For land use categories not included in the traffic modeling performed for the 2003 NITM Program Nexus Report (such as Great Park Parking Spaces), daily vehicle trip rates are derived from the socio-economic-based trip generation used in the Irvine Transportation Analysis Model 8.4-10 (ITAM 8.4-10), February 2012 version, to evaluate whether any NITM Program improvements from the PA40 GPA/ZC Reallocation Study are no longer needed or alternate improvements are appropriate based on the current traffic forecasts.

Appendix A compares the land use and ADT trip generation from the PA 40 Re-Allocation Study with the “With Project” land use and ADT trip generation for the Great Park FDAs. The “With Project” land uses and ADT from Appendix A are used to calculate the Great Park FDA traffic shares for the circulation system improvement locations included in the updated List of NITM Improvements. The resulting traffic shares served as the basis for allocating the improvement costs for the updated List of NITM Improvements to the NITM FDAs.

PA's 30 AND 51 TRAFFIC ANALYSIS ZONES (REVIEW OF NITM IMPROVEMENTS)

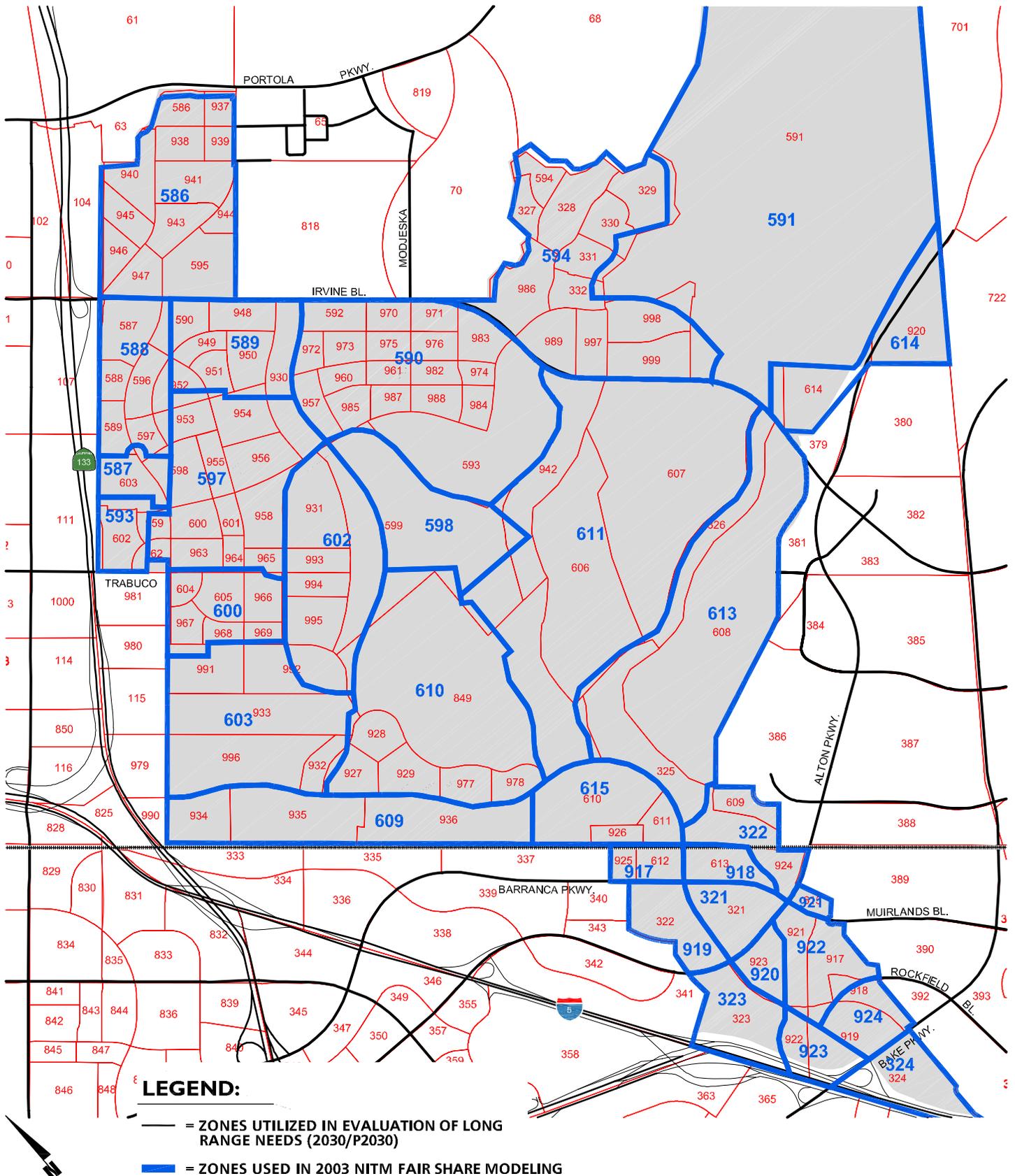


Table 3-1

NITM FUTURE DEVELOPMENT AREA LAND USE AND TRIP GENERATION SUMMARY

Land Use Description	Units	Year 2015		Year 2030		Post-2030	
		Amount	ADT	Amount	ADT	Amount	ADT
PLANNING AREA 40							
Single Family Detached	DU	184	1,757	184	1,757	184	1,757
Condominiums	DU	1,549	12,392	1,549	12,392	1,967	15,736
Apartments	DU	1,767	11,432	1,767	11,432	1,767	11,432
Commercial	TSF	178	9,611	178	9,611	178	9,611
Restaurant	TSF	7	1,085	7	1,085	7	1,085
Fast Food Restaurant	TSF	8	5,057	8	5,057	8	5,057
Gas Station	Site	1	1,012	1	1,012	1	1,012
Bank	TSF	9	2,387	9	2,387	9	2,387
Office	TSF	340	3,648	1,890	20,284	1,890	20,284
Elementary/Middle School	Students	2,000	2,180	2,000	2,180	2,000	2,180
Park	Acre	37.3	187	37.3	187	37.3	187
Child Care Center	TSF	10	793	10	793	10	793
TOTAL			51,541		68,177		71,521
IRVINE NORTHERN SPHERE AREA							
Planning Area 5B							
Single Family Detached	DU	--	--	1,266	12,091	1,266	12,091
Condominiums	DU	--	--	634	5,072	634	5,072
Elementary/Middle School	Students	--	--	900	981	900	981
Park	Acre	--	--	6	30	6	30
TOTAL		--			18,174		18,174
Planning Area 6							
Single Family Detached	DU	2,205	21,058	2,205	21,058	2,205	21,058
Condominiums	DU	1,366	10,928	1,366	10,928	1,366	10,928
Apartments	DU	1,098	7,104	1,098	7,104	1,098	7,104
Commercial	TSF	141.5	8,107	141.5	8,107	143	8,193
Restaurant	TSF	20	3,100	20	3,100	20	3,100
Fast Food Restaurant	TSF	7	4,425	7	4,425	7	4,425
Gas Station	Site	1	1,012	1	1,012	1	1,012
Bank	TSF	4	1,061	4	1,061	4	1,061
Office	TSF	--	--	175	1,878	175	1,878
Research and Development	TSF	--	--	325	3,237	325	3,237
Elementary/Middle School	Students	750	818	750	818	750	818
Park	Acre	50.7	254	50.7	254	50.7	254
Child Care Center	TSF	10	793	10	793	10	793
TOTAL			58,660		63,775		63,861

TABLE 3-1 (CONT.)

NITM FUTURE DEVELOPMENT AREA LAND USE AND TRIP GENERATION SUMMARY

Land Use Description	Units	Year 2015		Year 2030		Post-2030	
		Amount	ADT	Amount	ADT	Amount	ADT
Planning Area 8A							
Single Family Detached	DU	218	2,082	218	2,082	218	2,082
Condominiums	DU	182	1,456	182	1,456	182	1,456
TOTAL			3,538		3,538		3,538
Planning Area 9A							
Single Family Detached	DU	1,457	13,915	1,457	13,915	1,457	13,915
Condominiums	DU	923	7,384	923	7,384	923	7,384
Apartments	DU	2,852	18,453	2,852	18,453	2,852	18,453
Commercial	TSF	383.14	15,405	383.14	15,405	385.86	15,514
Restaurant	TSF	6.53	1,012	6.53	1,012	6.53	1,012
Fast Food Restaurant	TSF	7.16	4,526	7.16	4,526	7.16	4,526
Gas Station	Site	--	--	1	1,012	1	1,012
Bank	TSF	8.17	2,167	8.17	2,167	8.17	2,167
Health Club	TSF	41.28	1,651	41.28	1,651	41.28	1,651
Community Facility	TSF	8	364	8	364	8	364
Elementary/Middle School	Students	900	981	900	981	900	981
Child Care Center	TSF	17.5	1,387	17.5	1,387	17.5	1,387
TOTAL			67,245		68,257		68,366
Planning Area 9B							
Single Family Detached	DU	703	6,714	703	6,714	703	6,714
Condominiums	DU	1,655	13,240	1,655	13,240	1,655	13,240
Apartments	DU	991	6,412	991	6,412	991	6,412
High School	Students	1,200	1,656	1,200	1,656	1,200	1,656
Elementary/Middle School	Students	900	981	900	981	900	981
TOTAL			29,003		29,003		29,003
ORANGE COUNTY GREAT PARK							
Great Park I							
Education	Students	4,161	10,943	4,161	10,943	4,161	10,943
Retail	TSF	150	8,208	150	8,208	150	8,208
Senior Housing	DU	182	930	182	930	182	930
Research and Development	TSF	48.7	507	48.7	507	48.7	507
Multi-Family	DU	1,363	9,746	1,363	9,745	1,363	9,745
Single Family Detached	DU	1,407	12,368	1,407	12,367	1,407	12,367
Office	TSF	75	941	75	941	75	941
Child Care	TSF	11	462	11	462	11	462
Church/Synagogue	TSF	25	203	25	203	25	203
Elementary/Middle School	Students	1,000	1,240	1,000	1,240	1,000	1,240
Parks	Acre	31.1	112	31.1	112	31.1	112

TABLE 3-1 (CONT.)

NITM FUTURE DEVELOPMENT AREA LAND USE AND TRIP GENERATION SUMMARY

Land Use Description	Units	Year 2015		Year 2030		Post-2030	
		Amount	ADT	Amount	ADT	Amount	ADT
Wildlife Corridor	Acre	170.32	29	31.42	5	31.42	5
Parking	Spaces	1,541	5,766	2,227	8,333	2,227	8,333
Government Facility	TSF	70.9	1,693	70.9	1,693	70.9	1,693
TOTAL			53,148		55,689		55,689
Great Park II							
Elementary School	Students	1,000	1,240	1,000	1,240	1,000	1,240
Agriculture	Acre	103.6	208	90	181	90	181
Golf Course	Acre	--	--	150	923	150	923
Wildlife Corridor	Acre	974	163	1219.6	204	1219.6	204
Park	Acre	16.5	59	16.5	59	16.5	59
Multi-Family	DU	608	4,347	608	4,347	608	4,347
Chapel/Mortuary	TSF	--	--	50	405	50	405
Single Family Detached	DU	1,334	11,726	1,334	11,726	1,334	11,726
Exposition Center	TSF	--	--	708	16,829	708	16,829
Parking	Spaces	59	221	59	221	59	221
Retail	TSF	70	3,830	150	8,208	150	8,208
TOTAL			21,794		44,343		44,343
Great Park III							
Institutional Warehouse	TSF	121.094	762	263	1,657	263	1,657
OCTA Facility	TSF	35	235	176	1,183	176	1,183
Transportation Center	Spaces	695	1,738	1,050	2,626	1,050	2,626
Cultural Institutional	TSF	60	1,384	300	6,924	300	6,924
Agriculture	Acre	40.3	81	--	--	--	--
Wildlife Corridor	Acre	232.4	39	--	--	--	--
Parking	Spaces	--	--	2,751	10,294	2,751	10,294
Education	Students			3,580	9,415	3,580	9,415
Research and Development	TSF	--	--	951.3	9,913	951.3	9,913
TOTAL			4,239		42,012		42,012
Great Park IV							
Auto Center	TSF	--	--	102	4,355	102	4,355
Research and Development	TSF	--	--	1,600	16,672	1,600	16,672
Agriculture	Acre	11.2	23	--	--	--	--
Wildlife Corridor	Acre	--	--	32	5	32	5
TOTAL			23		21,032		21,032
PLANNING AREA 1							
Single Family Detached	DU	1,669	15,939	2,721	25,986	2,721	25,986
Condominiums	DU	620	4,960	867	6,936	867	6,936
Apartments	DU	500	3,235	500	3,235	500	3,235
Commercial (e)	TSF	117	7,441	117	7,441	117	7,441
Restaurant	TSF	7.5	1,163	7.5	1,163	7.5	1,163
Fast Food Restaurant	TSF	7	4,425	7	4,425	7	4,425
Gas Station	Site	1	1,012	1	1,012	1	1,012

TABLE 3-1 (CONT.)

NITM FUTURE DEVELOPMENT AREA LAND USE AND TRIP GENERATION SUMMARY

Land Use Description	Units	Year 2015		Year 2030		Post-2030	
		Amount	ADT	Amount	ADT	Amount	ADT
Government Facility	TSF	8.98	269	8.98	269	8.98	269
High School	Students	2,000	2,760	2,758	3,806	2,758	3,806
Elementary/Middle School	Students	700	763	1,400	1,526	1,400	1,526
Park	Acre	30.5	153	43	216	43	216
Child Care Center	TSF	10	793	10	793	10	793
TOTAL			42,913		56,808		56,808

Abbreviations: ADT – average daily trips
 DU – dwelling unit
 TOD – transit oriented development
 TSF – thousand square feet

As Table 3-1 indicates, the ITAM 8.4-10 year 2030 and Post-2030 conditions assume buildout of the NITM Future Development Areas with the exception of Northern Sphere Areas PA6 and PA9A where the amount of commercial development in year 2030 is slightly less than buildout. In the ITAM 8.4-10 year 2015 setting, Northern Sphere Area PA5B is assumed to remain vacant, and portions of PA40 and the Orange County Great Park I, II, III and IV areas are assumed to be partially developed. PA 40 includes an additional 418 dwelling units in Post-2030. Districts 1 north, 1 south, 4, 7, and 8 of the Great Park Neighborhoods are assumed to be fully developed by year 2015.

3.2 Background Circulation System Assumptions

The ITAM 8.4-10, February 2012 version, 2015 and 2030 circulation systems only assume improvements that are committed for construction (i.e., public agency capital improvement programs, state transportation improvement program, etc.) or would be constructed as part of previously entitled development by the 2015 and/or 2030 time frame. The ITAM 8.4-10 Post-2030 highway network assumes full buildout of the General Plan Circulation Elements for Irvine and the surrounding cities as well as the Orange County Master Plan of Arterial Highways (MPAH). This includes a number of unfunded, and therefore non-committed, planned circulation system improvements. Exhibit 3-2 shows the NITM Program traffic analysis study area and the Post-2030 (buildout) circulation system.

Table 3-2 presents the committed roadway improvements for years 2010-2015. Table 3-3 lists the improvements that are committed to be in place by 2030, and Table 3-4 lists the improvements assumed for Post-2030.

In addition to these 2030 NITM operational/stripping improvements, the Great Park Neighborhoods project proposes to provide eastbound right turn overlap phasing at the intersection of Alton Parkway at Irvine Boulevard as a project design feature associated with on-site development activity in District 5. This signal operation modification will enhance the signal timing dedicated to eastbound right turning vehicles, which will optimize intersection capacity utilization and reduce right turn queues.

TABLE 3-2

2010-2015 Committed Roadway Improvements¹

Roadway	Limits	Jurisdiction	Lanes		Source
			2010	2015	
"A" St	Irvine Blvd to "LQ" St	Irvine	0	2U	O.C. Great Park
Alton Pkwy	Irvine Blvd to Dimension/Towne Centre Dr	Irvine/ Lake Forest	0	6D	Foothill Circulation Phasing Program
Chapman Ave	Jamboree Rd to SR-241/SR-261	Orange	4U	6D	Santiago Hills II
I-5 at Jamboree Rd	Southbound I-5 off-ramp	Caltrans	1R	2R ²	OCTA/Caltrans/City of Irvine CIP
Irvine Center Dr	I-405 to Bake Pkwy	Irvine	5D	6D	PA39
Jamboree Rd	Michelle Dr to I-5 NB Ramps	Irvine	6D	8D	City of Irvine CIP
Jamboree Rd	Canyon View Ave to Tustin city limits	Orange	4D	6D	Santiago Hills II
Jeffrey Rd	Portola Pkwy to Irvine Blvd	Irvine	4D	6D	PA9B
Jeffrey Rd	Irvine Center Dr to Walnut Ave	Irvine	4D	6D	PA12/City of Irvine CIP
Lake Forest Dr	Laguna Canyon Rd to PA18 Access Rd	Irvine	0	4D	PA18
"LY" St	Irvine Blvd to Trabuco	Irvine	0	2U	O.C. Great Park
"O" St	North of Irvine Blvd to Trabuco Rd	Irvine	0	4D	O.C. Great Park
"O" St	Trabuco Rd to Marine Way	Irvine	0	2D	O.C. Great Park
Roosevelt	Jeffrey Rd to "A" St	Irvine	0	4D	PA40 Map PDF
Roosevelt	"A" St to "C" St	Irvine	0	2U	PA40 Map PDF
Roosevelt	"C" St to Sand Canyon Ave	Irvine	0	4D	PA40 Map PDF
Sand Canyon Av	I-5 southbound ramps to I-5 northbound ramps	Irvine	4D	8D	NITM/City of Irvine CIP/Sand Canyon Grade Separation
Sand Canyon Av	I-5 southbound ramps to Burt Rd	Irvine	4D	7D (3 SB/ 4 NB)	NITM/City of Irvine CIP/Sand Canyon Grade Separation
Sand Canyon Av	Burt Rd to Oak Canyon/Laguna Canyon Rd	Irvine	4D	6D	NITM/City of Irvine CIP/Sand Canyon Grade Separation
Santiago Canyon Rd	SR-241 to eastern boundary of East Orange PC Area 1	Orange (Sphere)	2U	4D	East Orange PC
SR-73	SR-133 to south of El Toro Rd	Caltrans/TCA	6T	7D (3 SB/ 4 NB)	TCA CIP
SR-133	I-405 to Lake Forest Dr	Irvine	4D	6D	PA18
SR-241	SR-133 to SR-261	Caltrans/TCA	5T	6T	TCA CIP
SR-241	Lake Forest Dr to Oso Pkwy	Caltrans/TCA	4T	6T	TCA CIP
St A	Jamboree Rd to Chapman Ave	Orange	0	2U	Santiago Hills II
St B	Jamboree Rd to St A	Orange	0	2U	Santiago Hills II
St D	Chapman Ave to west of SR-241	Orange	0	4D	Santiago Hills II

TABLE 3-2 (CONT.)

2010-2015 Committed Roadway Improvements¹

Roadway	Limits	Jurisdiction	Lanes		Source
			2010	2015	
St D	West of SR-241 to Santiago Canyon Rd	Orange	0	2U	East Orange PC
Technology Dr	I-5/SR-133 undercrossing	Irvine	0	2U	PA31
Technology Dr	I-5/SR-133 to Old Laguna Canyon Rd	Irvine	0	4U	PA31
Trabuco Rd	SR-133 to "O" St	Irvine	4U	4D	O.C. Great Park
Trabuco Rd	"O" St to "LY" St	Irvine	0	2D	O.C. Great Park

¹ Lane abbreviations: D = Divided Roadway Lane
R = Ramp Lane
T = Toll Road Lane
U = Undivided Roadway Lane

Other abbreviations: CIP - Capital Improvement Program
NITM - North Irvine Transportation Mitigation Program
OCTA -Orange County Transportation Authority
PA - City of Irvine Planning Area
PC - Planned Communities
PDF - Project Design Feature
TCA - Transportation Corridor Agencies

² This ramp improvement is associated with Caltrans' planned improvement to add a second southbound auxiliary lane on I-5 between Tustin Ranch Rd and Jamboree Rd). The Caltrans improvement is to be coordinated with the City of Irvine CIP improvements to Jamboree Rd at I-5.

TABLE 3-3

2015-2030 Committed Roadway Improvements¹

Roadway	Limits	Jurisdiction	Lanes		Source
			2015	2030	
Bake Parkway	Lake Forest Drive to Irvine Center	Irvine	0	6D	PA34
Irvine Boulevard	Yale Avenue to Jeffrey Road	Irvine	5D	6D	Northern Sphere
Irvine Boulevard	SR-133 to Alton Parkway	Irvine	Varies	6D	OC Great Park
Irvine Center Drive	Enterprise to I-405 SB Ramps	Irvine	6D	8D	PA18/39
Irvine Center Drive	I-405 SB Ramps to Research	Irvine	6D	8D	PA 18/39
Lake Forest Drive	Irvine Center Drive to Tesla	Irvine	5D	6D	PA 34
Lake Forest Drive	Tesla to Bake Parkway	Irvine	0	6D	PA 34
Lake Forest Drive	Bake Parkway to Laguna Canyon Road	Irvine	0	4D	PA18/39
Marine Way	Sand Canyon Avenue to O Street	Irvine	2U	4D ²	OC Great Park
Marine Way	O Street to Alton Parkway	Irvine	0	4D	OC Great Park
Marine Way	Alton Parkway to Bake Parkway	Irvine	0	4D	OC Great Park
Rancho Parkway	Lake Forest to Portola Parkway	Lake Forest	0	4D	Baker Ranch
Rockfield Boulevard	Marine Way to Thomas	Irvine	0	4D	OC Great Park
Sand Canyon Avenue	I-405 to Alton Parkway	Irvine	5D	6D	Kaiser/TIC/City of Irvine
Santiago Canyon Road	SR-261 ramps to SR-241 ramps	Orange (Sphere)	4D	6D	East Orange PC
Santiago Canyon Road	Eastern boundary of East Orange PC Area 1 to East Orange PC Street E	Orange (Sphere)	2U	4D	East Orange PC
SR-73	North of SR-133	Caltrans/TCA	7T	9T	TCA CIP
SR-73	SR-133 to El Toro Road	Caltrans/TCA	6T	8T	TCA CIP
SR-73	South of El Toro Road	Caltrans/TCA	7T	8T	TCA CIP
SR-133	Interchange at Trabuco Road	TCA	0	I/C	NITM Program
SR-241	Portola Parkway (W) to Oso Parkway	Caltrans/TCA	6T	8T	TCA CIP
SR-241 at Chapman Avenue	Southbound SR-241 on-ramp	Caltrans/TCA	2R	2R ³	East Orange PC
SR-241 (FTC-S)	Oso Parkway to Ortega Highway	Caltrans/TCA	0	6T	TCA CIP
SR-241 (FTC-S)	Ortega Highway to I-5	Caltrans/TCA	0	4T	TCA CIP
SR-261	Walnut Avenue to Irvine Boulevard	Caltrans/TCA	4T	6T	TCA CIP
SR-261	Portola Parkway to SR-241	Caltrans/TCA	5T	7T	TCA CIP
Street E	Santiago Canyon Road to north of Street F	Orange (Sphere)	0	2U	East Orange PC
Street F	Street E to south of Santiago Canyon Road	Orange (Sphere)	0	2U	East Orange PC

TABLE 3-3 (CONT.)

2015-2030 Committed Roadway Improvements¹

Roadway	Limits	Jurisdiction	Lanes		Source
			2015	2030	
University Drive	I-405 to Michelson Drive	Irvine	5D	6D	City of Irvine CIP
"O" Street	Marine Way to Trabuco	Irvine	2D	4D	PA 40

¹ Lane abbreviations: D = Divided Roadway Lane
 R = Ramp Lane
 T = Toll Road Lane
 U = Undivided Roadway Lane

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 PDF - Project Design Feature
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² Includes the realignment of Marine Way on Sand Canyon Avenue opposite the northbound I-5

³ Relocate the ramp southeast to the location where the eisting northbound SR-241 off-ramp intersects Santiago Canyon Rd.

TABLE 3-4

2030-Post-2030 Roadway Improvements¹

Roadway	Limits	Jurisdiction	Lanes	
			2030	P-2030
Bake Parkway	Lake Forest Drive to Laguna Canyon Road	Irvine	0	6D
Browning Avenue	Crossing of I-5	Tustin	0	4U
El Toro Road	Trabuco Road to Muirlands Boulevard	Lake Forest	6D	8D
El Toro Road	Aliso Creek Road to SR-73	Laguna Beach/County	4D	6D
El Toro Road	SR-73 to Laguna Canyon Road	Laguna Beach/County	2U	4D
Handy Creek	Jamboree Road to SR-261	County	0	2U
Irvine Boulevard	Red Hill Avenue to Tustin Ranch	Tustin/County	4D	6D
Jamboree Road	Portola Parkway to Tustin Ranch Road	Tustin	5D	6D
Jamboree Road	Tustin Ranch Road to Tustin City limits north of Tustin Ranch Road	Tustin	4D	6D
Jeffrey Road	Portola Parkway to SR-241	Irvine	0	4D
Jeffrey Road	SR-241 to Santiago Canyon Road	County	0	4D
Los Alisos Boulevard	Rockfield Boulevard to Paseo de Valencia	Lake Forest	4D	6D
Myford Road	crossing of I-5	Tustin	0	4U
Old Laguna Canyon Road	crossing of I-405	Irvine	2U	4D
Paseo de Valencia	Los Alisos Boulevard to Laguna Hills Drive	Laguna Hills/Laguna Woods	5D	6D
Portola Parkway	Alton Parkway to SR-241	County	0	4D
Ridge Route Drive	Rockfield Boulevard to Avenida de la Carlota	Lake Forest/Laguna Hills	0	4U
Ridge Route Drive	Avenida de la Carlota to Moulton Parkway	Laguna Hills/Laguna Woods	2U	4D
Ridge Route Drive	extension to Bake Parkway	Irvine	0	4D
Santa Maria Avenue	extension to Laguna Canyon Road	County	0	4U
Santiago Canyon	El Toro Road to St E	County	2D	4D
Shady Canyon Drive	I-405 to Quail Hill Parkway	Irvine	4D	6D
SR-73	North of SR-133	Caltrans/TCA	9T	9T+2H
SR-73	SR-133 to El Toro Road	Caltrans/TCA	8T	8T + 2H
SR-73	South of El Toro Road	Caltrans/TCA	8T	8T+2H
SR-133 (Laguna Canyon Road)	SR-73 to El Toro Road	County	2U	4D
SR-133	I-5 to Irvine Boulevard	Caltrans/TCA	6T	6T+2H

TABLE 3-4 (CONT.)

2030-Post-2030 Roadway Improvements¹

Roadway	Limits	Jurisdiction	Lanes	
			2030	P-2030
SR-133	Irvine Boulevard to SR-241	Caltrans/TCA	8T	8T+2H
SR-241	Interchange at Jeffrey Road	Irvine/Caltrans/ TCA	0	I/C
SR-241	SR-91 to SR-261	Caltrans/TCA	7T	7T+2H
SR-241	SR-261 to SR-133	Caltrans/TCA	6T	6T+2H
SR-241	SR-133 to Portola Parkway (W)	Caltrans/TCA	8T	8T+2H
SR-241	Portola Parkway (W) to Oso Parkway	Caltrans/TCA	8T	8T+2H
SR-241 (FTC-S)	Oso Parkway to Ortega Highway	Caltrans/TCA	6T	6T+2H
SR-241 (FTC-S)	Ortega Parkway to I-5	Caltrans/TCA	4T	4T+2H
SR-241/SR-261	Branch connectors between SR-241 south of SR-261 and SR-261 south of SR-241	Caltrans/TCA	0	B/C
SR-261	Interchange at Handy Creek Road	Caltrans/TCA	0	I/C ²
SR-261	Walnut Avenue to Irvine Boulevard	Caltrans/TCA	6T	6T+2H
SR-261	Irvine Boulevard to Portola Parkway	Caltrans/TCA	6T	6T+2H
SR-261	Portola Parkway to SR-241	Caltrans/TCA	7T	7T+2H

¹ Lane abbreviations: D = Divided Roadway Lane

R = Ramp Lane

T = Toll Road Lane

U = Undivided Roadway Lane

I/C - Interchange

B/C - Branch Connector

H - HOV Lane

¹ Other abbreviations: CIP - Capital Improvement Program

NITM - North Irvine Transportation Mitigation Program

OCTA - Orange County Transportation Authority

PA - City of Irvine Planning Area

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TCA - Transportation Corridor Agencies

² Includes a southbound on-ramp, a northbound off-ramp and northbound and southbound collector/distributor roads between Chapman Ave and Hand Creek Road.

Table 3-5 summarizes the advancement of certain NITM improvements to mitigate cumulative impacts associated with Great Park Neighborhoods 2011 GPA/ZC. For each mitigation measure, the summary table also notes whether the project is required to participate in the implementation of the identified improvement on a fair share basis or to be fully responsible for implementation of the improvement.

3.3 List of NITM Improvements Review

In this section, the current List of NITM Improvements is reviewed based on the year 2015, year 2030 and Post-2030 ITAM 8.4-10, February 2012 version, traffic projections. For each ITAM horizon year, AM and PM peak hour levels of service are for each intersection, freeway ramp and freeway mainline improvement location included in the current List of NITM Improvements. The purpose of this level of service (LOS) review is to identify whether any NITM Program improvements are no longer needed or alternate improvements are appropriate based on the ITAM 8.4-10, February 2012 version, traffic forecasts. In addition, this LOS review is used to determine the implementation timeframe of the needed NITM improvements and update accordingly.

A given NITM improvement is considered a candidate for removal from the List of NITM Improvements if the future peak hour levels of service are as follows:

- LOS C or better at fully funded NITM locations;
- LOS C or better for NITM locations within the City of Irvine;
- LOS D or better for fair share funded NITM improvements.

The roadway segment and interchange improvements that are included in the List of NITM improvements are assumed in the long-range circulation plans of the Cities of Irvine and Tustin as well as the Orange County Master Plan of Arterial Highways (MPAH), and a timeframe for each improvement has been assumed in the ITAM model.

TABLE 3-5

Advancement of Certain NITM Improvements
to Mitigate Great Park Neighborhoods 2011 GPA/ZC Impacts

Location	Improvement	Project Responsibility
Intersection		
344 Alton & Technology	Westbound approach should be restriped to include 2.5 left turn lanes, 1.5 through lanes, and a defacto right turn lane	NITM participation - 2030 (improvement is to be partially funded by the NITM program)
420 El Toro & Jeronimo	Add a second southbound left turn lane	NITM participation - 2030 (improvement is to be partially funded by the NITM program)
432 Alicia & Muirlands	Add a second southbound left turn lane	NITM participation - 2015 (improvement is to be partially funded by the NITM program), only if a connection south to Marine Way is provided
Ramp		
I-5 SB off to Sand Canyon	Add a second drop lane from the I-5 to the off-ramp	NITM participation - Post-2030 (improvement is to be partially funded by the NITM program)
I-5 SB off to Alton	Add a second auxiliary lane from the I-5 to the off-ramp	NITM participation - Post-2030 (improvement is to be partially funded by the NITM program)
I-5 SB off to El Toro	Add a second drop lane from the I-5 to the off-ramp	NITM participation - 2030, if Pending Projects implemented

These improvements, which are listed below along with their respective ITAM timeframes, are assumed to remain in the List of NITM improvements, and therefore no review of future traffic conditions without these improvements was conducted.

- **Jamboree Road from Portola Parkway to north Tustin city limits (City of Tustin):** Improve to six lanes (assumed in ITAM Post-2030 baseline conditions).
- **Jeffrey Road future extension from Portola Parkway to SR-241 (City of Irvine):** Construct as four-lane primary arterial (assumed in ITAM Post-2030 baseline conditions).
- **SR-133 Interchange at Trabuco Road (City of Irvine, Caltrans, Transportation Corridor Agencies):** Assumed in ITAM 2030 baseline conditions.
- **SR-241 Interchange at Jeffrey Road (City of Irvine, Caltrans, Transportation Corridor Agencies):** Assumed in ITAM Post-2030 baseline conditions.

Also, as discussed in Chapter 2.0, a number of NITM Program improvements have been constructed, are under construction, or are planned to be constructed in association with approved development that will occur by 2015 or 2030. Those improvements are therefore assumed as baseline improvements in this analysis and no review of future traffic conditions without those improvements was conducted (refer to Chapter 2.0 for a listing of the improvement locations):

Levels of service without the NITM improvements were calculated for each NITM improvement location starting with year 2015 traffic forecast data and improvements found to no longer be necessary based on the criteria outlined earlier were re-evaluated under subsequent scenarios (2030 and Post-2030). Only those NITM improvements that meet the deletion criteria in all three forecast years (2015, 2030 and Post-2030) are considered actual candidates for possible deletion from the NITM Program. NITM improvements or appropriate alternate improvements found to be needed to address LOS deficiencies under the interim scenarios (2015 or 2030) were carried forward and assumed in the LOS calculations for subsequent future scenarios, but only for locations where improvements are fully funded by the NITM Program. The rationale for including fully funded improvements in the baseline for the next horizon year is that the NITM Program is considered a committed funding source for such improvements. Partially

funded (i.e., not fully committed) NITM improvements needed to address LOS deficiencies in a given horizon year were not carried forward in the analysis of subsequent horizon years, but if LOS deficiencies occurred in the subsequent horizon years then the improvements from the earlier scenarios were applied first (i.e., before applying other NITM improvements that may be available) to address the deficiencies.

The results of the 2015, 2030 and Post-2030 NITM LOS review are summarized in Table 3-6 for intersection locations (the ICU worksheets for the ICU results in Table 3-6 are provided in Appendix B), Table 3-7 for freeway ramps, and Table 3-8 for freeway mainline segments. For each improvement location, the conclusion of the review is summarized in the tables along with the LOS results. In addition to noting those NITM improvements that are assumed in the baseline (e.g., existing improvements and improvements that are under construction or planned for construction), the conclusion identifies whether or not the improvements at each location are needed and the timeframe (2015, 2030, Post-2030) for those improvements that are needed. The results of the review indicate that all of the freeway ramp and freeway mainline improvement in the NITM Program are still needed and that many of the NITM Program intersection improvements are still needed with the exception of those summarized in Table 3-9.

The LOS summary tables (Tables 3-6, 3-7 and 3-8) also indicate that deficiencies are forecast at the following intersection, freeway ramp and freeway mainline locations under conditions with the NITM Program improvements assumed:

- **Intersection #291. Jeffrey Road and Alton Parkway (City of Irvine):** 2015, 2030, and Post-2030 AM deficiencies.
- **Intersection #303. Sand Canyon Avenue and I-5 Northbound Ramps/Marine Way (City of Irvine):** 2030 PM deficiency.
- **Intersection #306. Sand Canyon Avenue and Oak Canyon/Laguna Canyon Road (City of Irvine):** 2030 PM deficiency.
- **Intersection #321. Laguna Canyon Road and Old Laguna Canyon Road (City of Irvine):** Post-2030 AM deficiency.
- **Intersection #338. Alton Parkway and Irvine Boulevard (City of Irvine):** 2030 AM and PM and Post-2030 AM and PM deficiencies.
- **Intersection #387. Ridge Route Drive and Rockfield Boulevard (City of Lake Forest):** Post-2030 PM deficiency.

TABLE 3-6

INTERSECTION ANALYSIS SUMMARY (NITM IMPROVEMENT LOCATIONS)

Intersection	2015						2030						Post-2030					
	AM Peak Hour		PM Peak Hour		LOS		AM Peak Hour		PM Peak Hour		LOS		AM Peak Hour		PM Peak Hour		LOS	
	ICU	LOS	ICU	LOS	ICU	LOS	ICU	LOS	ICU	LOS	ICU	LOS	ICU	LOS	ICU	LOS	ICU	LOS
FULLY FUNDED IMPROVEMENTS IN THE NITM PROGRAM																		
34. Red Hill Ave & Irvine Blvd (City of Tustin)																		
Without NITM Improvements																		
With NITM Improvements																		
Conclusion – Needed NITM improvement: Apply ATMS (2030).																		
91. Tustin Ranch Rd & Irvine Blvd (City of Tustin)																		
Without NITM Improvements																		
With NITM Improvements																		
Conclusion – Needed NITM improvement: Apply ATMS (2030).																		
125. Jamboree Rd & Irvine Blvd (City of Tustin)¹																		
Without NITM Improvements																		
With NITM Improvements																		
Conclusion – Needed NITM improvement (since LOS D or worse without improvements): Convert southbound free right-turn lane to 4th through lane (no timeframe).																		
222. Culver Dr & Trabuco Rd (City of Irvine)																		
With Existing (Built) NITM Improvements																		
Note: The NITM improvements at this location have been built (3rd northbound through lane and improved westbound approach with two left-turn lanes and two right-turn lanes).																		
223. Culver Dr & I-5 Southbound Ramps (City of Irvine)																		
With Existing (Built) NITM Improvements																		
Note: The NITM improvements at this location have been built (improved eastbound approach with three left-turn lanes and two right-turn lanes).																		
224. Culver Dr & Walnut Ave (City of Irvine)																		
Without NITM Improvements																		
Conclusion – Needed NITM improvement (since LOS D or worse without improvements): Apply ATMS (no timeframe).																		
235. Culver Dr & University Dr (City of Irvine)																		
Without NITM Improvements																		
With NITM Improvements																		
Conclusion – Needed NITM improvements: Add 2nd northbound and southbound left-turn lanes and de-facto southbound and eastbound right-turn lanes, convert northbound de-facto right-turn lane to dual right-turn lanes and provide overlap with westbound left-turn (no timeframe since LOS D or better without the improvements).																		
249. Yale Ave & Irvine Blvd (City of Irvine)																		
Without NITM Improvements																		
With NITM Improvements																		
Conclusion – Needed NITM improvement: Add 2nd southbound left-turn lane (2030).																		
288. Jeffrey Rd & Walnut Ave/I-5 Southbound Ramps (City of Irvine)																		
Without NITM Improvements																		
Conclusion – Needed NITM improvement (since LOS D or worse without improvements): Add eastbound shared 2nd through lane/2nd right-turn lane (no timeframe).																		

TABLE 3-6 (CONT.)

INTERSECTION ANALYSIS SUMMARY (NITM IMPROVEMENT LOCATIONS)

Intersection	2015						2030						Post-2030						
	AM Peak Hour		PM Peak Hour		LOS		AM Peak Hour		PM Peak Hour		LOS		AM Peak Hour		PM Peak Hour		LOS		
	ICU	LOS	ICU	LOS															
289. Jeffrey Rd & Irvine Center Dr (City of Irvine)																			
Without NITM Improvements	0.72	C	0.79	C	0.82	D	0.88	D	0.79 ²	C	0.86 ²	D	0.79 ²	C	0.86 ²	D			
With NITM Improvements	Not Applicable						0.81	D	0.75	C	0.78 ²	C	0.78 ²	C	0.76 ²	C			
Conclusion – Needed NITM improvements: Add 4th northbound and westbound through lanes and 3rd southbound left-turn lane and convert southbound right-turn lane to 4th southbound through lane (no timeframe since LOS D or better without the improvements).																			
291. Jeffrey Rd & Alton Pkwy (City of Irvine)																			
Without NITM Improvements or with Partial NITM Improvements from an Earlier Timeframe	0.96 ²	E	0.85 ²	D	0.94 ²	E	0.87 ²	D	Not Applicable										
With Partial NITM Improvements (as needed by timeframe)	0.92 ²	E	0.85 ²	D	Not Applicable														
With NITM Improvements	Not Applicable						0.94 ²	E	0.79 ²	C	0.91 ²	E	0.81 ²	D					
Conclusion – Needed NITM improvements: Add southbound de-facto right-turn lane (2015) and 3rd eastbound through lane (2030) and convert northbound free right-turn lane to standard right-turn lane (2015).																			
302. Sand Canyon Ave & Trabuco Rd (City of Irvine)																			
With Existing (Built) NITM Improvements	0.74	C	0.72	C	0.72 ²	C	0.74 ²	C	0.77	C	0.79	C							
Note: The NITM improvement at this location has been built (convert eastbound right-turn lane to a free right-turn lane).																			
303. Sand Canyon Ave & I-5 Northbound Ramps/Marine Way (City of Irvine)																			
With Planned 2030 NITM Improvements	0.86	D	0.79	C	0.99	E	1.12	F	Not Applicable										
With Remaining NITM Improvements	Not Applicable						0.81	D	0.81	D	0.81	D	0.81	D	0.84	D			
Conclusion – Planned and needed NITM improvements: Improve westbound approach (Orange County Great Park improvement planned by 2030) and add northbound and southbound through lanes (2030).																			
305. Sand Canyon Ave & I-5 Southbound Ramps (City of Irvine)																			
Without NITM Improvements	0.94	E	0.97	E	0.95	E	0.98	E	Not Applicable										
With NITM Improvements	0.79	C	0.81	D	0.80	C	0.81	D	0.89	D	0.85	D							
Conclusion – Needed NITM improvements: Add northbound and southbound through lanes (2015).																			
306. Sand Canyon Ave & Oak Canyon/Laguna Canyon Rd (City of Irvine)																			
Without NITM Improvements	0.68	B	1.21	F	Not Applicable														
With NITM Improvements	0.67	B	0.84	D	0.80	C	0.98	E	0.88	D	0.78	C							
Conclusion – Needed NITM improvement: Restripe westbound approach to provide two left-turn lanes, 0.5 through lanes and 1.5 right-turn lanes (2015). Note that the Post-2030 ICUs shown here assume that the NITM improvement is replaced by the addition of a westbound free right-turn lane, which is a PA40/PA12 GPA/ZC mitigation requirement.																			
310. Sand Canyon Ave & Alton Pkwy (City of Irvine)																			
Without NITM Improvements	0.68	B	0.68	B	0.73	C	0.73	C	0.75	C	0.74	C							
Conclusion – Potential candidate for NITM deletion: Add 2nd northbound right-turn lane or provide northbound free right-turn lane.																			

TABLE 3-6 (CONT.)

INTERSECTION ANALYSIS SUMMARY (NITM IMPROVEMENT LOCATIONS)

Intersection	2015						2030						Post-2030					
	AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour			
	ICU	LOS	ICU	LOS	ICU	LOS	ICU	LOS	ICU	LOS	ICU	LOS	ICU	LOS	ICU	LOS		
311. Sand Canyon Ave & I-405 Northbound Ramps (City of Irvine)																		
Without NITM Improvements	0.65	B	0.47	A	0.73	C	0.46	A	0.81	D	0.49	A						
Conclusion – Needed NITM improvement (since LOS D or worse without improvement): Improve westbound approach to provide a left-turn lane, a right-turn lane and a free right-turn lane (no timeframe).																		
321. Laguna Canyon & Old Laguna Canyon (City of Irvine)																		
With NITM Improvements that are Under Construction	0.66	B	0.61	B	0.87	D	0.77	C	0.93	E	0.80	C						
With Remaining NITM Improvements	Not Applicable																	
Conclusion – Planned and needed NITM improvements: Add 3rd northbound and southbound through lanes (under construction) and add 3rd northbound left-turn lane (no timeframe since the Post-2030 deficiency is not improved).																		
338. Alton Pkwy & Irvine Blvd (City of Irvine)																		
Without NITM Improvements	0.85	D	0.80	C	0.92	E	0.99	E	Not Applicable									
With NITM Improvements	Not Applicable		1.03	F	0.97	E	1.08	F	1.00									
Conclusion – Needed NITM improvements: Stripe eastbound approach to provide 2.5 left-turn lanes, 2.5 through lanes and a right-turn lane and modify signal to provide east/west split phasing (no timeframe since the 2030 deficiency is not improved). Also, designate LOS E as acceptable and make a contribution to the City of Irvine TMSOS (2030).																		
345. Alton Pkwy & I-5 Northbound Ramps (City of Irvine) ¹																		
Without NITM Improvements	0.71	C	0.45	A	0.79	C	0.51	A	0.80	C	0.52	A						
Conclusion – Potential candidate for NITM deletion: Restripe westbound approach to provide 2.5 left-turn lanes and 0.5 right-turn lanes.																		
362. Bake Pkwy & Irvine Blvd (City of Irvine) ¹																		
Without NITM Improvements or with Partial NITM Improvements from an Earlier Timeframe	0.80	C	0.81	D	1.01	F	0.97	E	0.87	D	0.93	E						
With Partial NITM Improvements (as needed by timeframe)	Not Applicable																	
With NITM Improvements	Not Applicable		0.83	D	0.89	D	Not Applicable											
Conclusion – Needed NITM improvements: Add 2nd northbound left-turn lane (Post-2030), convert westbound right-turn lane to 4th through lane (no timeframe), and restripe eastbound approach to provide 2 left-turn lanes, 2.5 through lanes and 1.5 right-turn lanes (no timeframe). Also, designate LOS E as acceptable and make a contribution to the City of Irvine TMSOS (note that the TMSOS project at this intersection has been completed, hence LOS E is acceptable).																		
364. Bake Pkwy & Jeronimo Rd (City of Irvine)																		
Without NITM Improvements or with Partial NITM Improvements from an Earlier Timeframe	0.97	E	0.70	B	0.90	D	0.73	C	0.85	D	0.73	C						
With Partial NITM Improvements (as needed by timeframe)	0.84		D	0.70	B	Not Applicable												
Conclusion – Needed NITM improvements: Add 2nd northbound left-turn lane (2015), convert southbound de-facto right-turn lane to 4th through lane (no timeframe), and add 3rd westbound through lane (no timeframe).																		

TABLE 3-6 (CONT.)

INTERSECTION ANALYSIS SUMMARY (NITM IMPROVEMENT LOCATIONS)

Intersection	2015						2030						Post-2030					
	AM Peak Hour		PM Peak Hour		LOS		AM Peak Hour		PM Peak Hour		LOS		AM Peak Hour		PM Peak Hour		LOS	
	ICU	LOS	ICU	LOS	ICU	LOS	ICU	LOS	ICU	LOS	ICU	LOS	ICU	LOS	ICU	LOS	ICU	LOS
368. Bake Pkwy & I-5 Southbound Ramps (City of Irvine)																		
Without NITM Improvements																		
0.75 C 0.87 D 0.81 D 0.89 D 0.81 D 0.85 D																		
Conclusion – Needed NITM improvement (since LOS D or worse without improvement): Designate LOS E as acceptable and make a contribution to the City of Irvine TMSOS (no timeframe).																		
379. Lake Forest Dr & Muirlands Blvd (City of Lake Forest)																		
Without NITM Improvements																		
0.65 B 0.85 D 0.75 C 0.84 D 0.71 C 0.84 C																		
Conclusion – Needed NITM improvement (since LOS D or worse without improvement): Convert northbound right-turn lane to 4th through lane (no timeframe).																		
383. Lake Forest Dr & Avd de la Carlota/I-5 Southbound Ramps (City of Irvine)																		
Without NITM Improvements																		
0.88 D 0.83 D 0.74 C 0.83 D 0.74 C 0.78 C																		
With NITM Improvements																		
0.77 ² C 0.71 ² C 0.60 ² A 0.76 ² C 0.58 ² A 0.74 ² C																		
Conclusion – Needed NITM improvements: Add 2nd westbound left-turn lane, provide westbound right-turn overlap with southbound left-turn, restripe eastbound approach to provide 3 left-turn lanes, 0.5 through lanes and 1.5 right-turn lanes, apply ATMS, and make a contribution to the City of Irvine TMSOS to designate LOS E as acceptable at this intersection (no timeframe since LOS D or better without the improvements).																		
406. Laguna Canyon Rd & Lake Forest Dr (City of Irvine)																		
With Planned 2015 NITM Improvements																		
0.46 A 0.41 A 0.71 C 0.61 B 0.66 B 0.54 A																		
Conclusion – Planned NITM improvement: Add 3rd southbound left-turn lane (PA18 improvement planned by 2015).																		
407. Laguna Canyon Rd & Bake Pkwy (City of Irvine)																		
Without NITM Improvements																		
Not Applicable																		
With NITM Improvements																		
0.97 E 0.81 D																		
Not Applicable																		
0.75 C 0.66 B																		
Conclusion – Needed NITM improvement: Add 3rd northbound through lane (Post-2030).																		
PARTIALLY FUNDED IMPROVEMENTS IN THE NITM PROGRAM																		
123. Jamboree Rd & Tustin Ranch Rd (City of Tustin)																		
Without NITM Improvements																		
0.76 C 0.69 B 0.77 C 0.68 B 0.86 D 0.78 C																		
Conclusion – Although the NITM improvements (add 3rd northbound and southbound through lanes) are not needed to maintain LOS D, they are not considered to be candidates for deletion from the NITM Program since they are associated with the NITM improvement to widen Jamboree Road north of Portola Parkway to six lanes (three in each direction).																		
228. Culver Dr & Barranca Pkwy (City of Irvine)																		
Without NITM Improvements																		
0.86 D 0.74 C 0.86 ² D 0.74 ² C 0.84 ² D 0.75 ² C																		
Conclusion – Needed NITM improvement (since LOS D or worse without improvement): Convert westbound de-facto right-turn lane to 3rd through lane (no timeframe).																		
290. Jeffrey Rd & Barranca Pkwy (City of Irvine)																		
Without NITM Improvements																		
0.83 D 0.73 C 0.89 D 0.80 C 0.84 ² D 0.76 ² C																		
Conclusion – Needed NITM improvements (since LOS D or worse without improvements): Add northbound and southbound de-facto right-turn lanes (no timeframe).																		
293. Jeffrey Rd & I-405 Northbound Ramps (City of Irvine)																		
Without NITM Improvements																		
0.71 C 0.82 D 0.74 C 0.89 D 0.79 C 0.88 D																		
Conclusion – Needed NITM improvement (since LOS D or worse without improvement): Add 3rd westbound left-turn lane (no timeframe).																		

TABLE 3-6 (CONT.)

INTERSECTION ANALYSIS SUMMARY (NITM IMPROVEMENT LOCATIONS)

Intersection	2015						2030						Post-2030					
	AM Peak Hour		PM Peak Hour		LOS		AM Peak Hour		PM Peak Hour		LOS		AM Peak Hour		PM Peak Hour		LOS	
	ICU	LOS	ICU	LOS	ICU	LOS	ICU	LOS	ICU	LOS	ICU	LOS	ICU	LOS	ICU	LOS	ICU	LOS
327. Barranca Pkwy & Technology Dr (City of Irvine)																		
Without NITM Improvements	0.59	A	0.73	C	0.56	A	0.81	D	0.56	A	0.81	D	0.56	A	0.81	D		
With NITM Improvements		Not Applicable			0.59	A	0.69	B	0.58	A	0.70	B	0.58	A	0.70	B		
Conclusion – Needed NITM improvements: Add 2nd southbound left-turn lane and restripe eastbound approach to provide a single left-turn lane, 1.5 through lanes and 1.5 right-turn lanes (no timeframe since LOS D or better without the improvements).																		
344. Alton Pkwy & Technology Dr West (City of Irvine)																		
Without NITM Improvements	0.59	A	0.83	D	0.61	B	0.94	E	0.62	B	0.97	E	0.62	B	0.97	E		
With NITM Improvements		Not Applicable			0.58	A	0.85	D	0.58	A	0.88	D	0.58	A	0.88	D		
Conclusion – Needed NITM improvements: Restripe westbound approach to provide 2.5 left-turn lanes, 1.5 through lanes and no right-turn lane, restripe eastbound approach to provide 1.5 left-turn lanes, 1.5 through lanes and 2 right-turn lanes, and modify signal to provide east-west split phasing (2030).																		
348. Alton Pkwy & Irvine Center Dr (City of Irvine)¹																		
Without NITM Improvements	0.63	B	0.70	B	0.73	C	0.78	C	0.74	C	0.78	C	0.74	C	0.78	C		
Conclusion – NITM improvements no longer needed: Convert northbound right-turn lane to a free right-turn lane, add 4th northbound through lane, and restripe westbound approach to provide 2 left-turn lanes, 2.5 through lanes and 1.5 right-turn lanes.																		
358. Irvine Center Dr & Enterprise Dr (City of Irvine)¹																		
With Planned 2030 NITM Improvements	0.84	D	0.73	C	0.66	B	0.54	A	0.63	B	0.52	A	0.63	B	0.52	A		
Conclusion – Planned NITM improvement: Add 3rd northbound through lane (PA39 improvement planned by 2030).																		
359. Irvine Center Dr & I-405 Southbound Ramps (City of Irvine)¹																		
With Planned 2030 NITM Improvements	0.77	C	0.74	C	0.60	A	0.56	A	0.57	A	0.53	A	0.57	A	0.53	A		
Conclusion – Planned NITM improvements: Add 3rd southbound through lane and 3rd eastbound left-turn lane (PA39 improvements planned by 2030).																		
378. Lake Forest Dr & Jeronimo Rd (City of Lake Forest)																		
Without NITM Improvements	0.70	B	0.74	C	0.77	C	0.91	E	0.77	C	0.87	D	0.77	C	0.87	D		
With NITM Improvements		Not Applicable			0.73	C	0.86	D	0.73	C	0.81	D	0.73	C	0.81	D		
Conclusion – NITM improvements needed: Add 2nd southbound left-turn lane and separate eastbound and westbound right-turn lanes (2030).																		
380. Lake Forest Dr & Rockfield Blvd (City of Lake Forest)																		
Without NITM Improvements	0.7	B	0.76	C	0.83	D	0.93	E	0.81	D	0.90	D	0.81	D	0.90	D		
With NITM Improvements		Not Applicable			0.86	D	0.87	D	0.86	D	0.85	D	0.86	D	0.85	D		
Conclusion – NITM improvement needed: Restripe westbound approach to provide 3 left-turn lanes, 2 through lanes and no right-turn lane (2030).																		
387. Ridge Route Dr & Rockfield Blvd (City of Lake Forest)																		
Without NITM Improvements	0.45	A	0.55	A	0.51	A	0.64	B	0.80	C	1.04	F	0.80	C	1.04	F		
With NITM Improvements		Not Applicable							0.70	B	1.08	F	0.70	B	1.08	F		
Conclusion – NITM improvements needed: Improve/restripe northbound and southbound approaches to provide 1.5 left-turn lanes, 1.5 through lanes and a de-facto right-turn lane on each approach and modify signal to provide north-south split phasing (no timeframe).																		

TABLE 3-6 (CONT.)

INTERSECTION ANALYSIS SUMMARY (NITM IMPROVEMENT LOCATIONS)

Intersection	2015						2030						Post-2030					
	AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour			
	ICU	LOS	ICU	LOS	ICU	LOS	ICU	LOS	ICU	LOS	ICU	LOS	ICU	LOS	ICU	LOS		
390. Paseo de Valencia & Avd de la Carlota (City of Laguna Hills/City of Laguna Woods)																		
Without NITM Improvements	0.56	A	0.72	C	0.80	C	0.94	E	0.79	C	0.96	E	0.79	C	0.96	E		
With NITM Improvements	Not Applicable		Not Applicable		0.80	C	0.86	D	0.79	C	0.88	D	0.79	C	0.88	D		
Conclusion – Needed NITM improvements: Restripe southbound approach to provide 2.5 left-turn lanes, 1.5 through lanes and no right-turn lane and construct 3rd eastbound receiving lane for the 3rd southbound left-turn lane (2030).																		
396. El Toro Rd & Avd de la Carlota (City of Laguna Hills)¹																		
Without NITM Improvements	0.60	A	0.87	D	0.72	C	0.95	E	0.74	C	0.99	E	0.74	C	0.99	E		
Conclusion – Needed NITM improvements (since LOS E or worse without improvements): Restripe westbound approach to provide 0.5 left-turn lanes, 1.5 through lanes and 2 right-turn lanes, restripe eastbound approach to provide 2 left-turn lanes, 2 through lanes and no right-turn lane, and provide westbound right-turn overlap with southbound left-turn (no timeframe).																		
420. El Toro Rd & Jeronimo Rd (City of Lake Forest)																		
Without NITM Improvements	0.75	C	0.78	C	0.90	D	0.88	D	0.95	E	0.89	D	0.95	E	0.89	D		
With NITM Improvements	Not Applicable																	
Conclusion – NITM improvements needed: Add 2nd southbound left-turn lane and eastbound right-turn lane, convert northbound right-turn lane to 4th through lane, and convert southbound de facto right-turn lane to 4th through lane (Post-2030).																		
422. Los Alisos Blvd & Jeronimo Rd (City of Lake Forest/City of Mission Viejo)																		
With Existing (Built) NITM Improvements	0.71	C	0.80	C	0.90	D	0.89	D	0.87	D	0.87	D	0.87	D	0.87	D		
Conclusion – NITM improvements needed: Add 2nd eastbound and westbound left-turn lanes (2030).																		
423. Muirlands Blvd & Los Alisos Blvd (City of Lake Forest/City of Mission Viejo)																		
With Existing (Built) NITM Improvements	0.88	D	0.92	E	1.00	E	1.06	F	0.95	E	1.02	F	0.95	E	1.02	F		
With NITM Improvements	0.74	C	0.75	C	0.85	D	0.83	D	0.81	D	0.86	D	0.81	D	0.86	D		
Conclusion – NITM improvements needed: Add 2nd northbound, southbound, eastbound and westbound left-turn lanes (2015). Note: The following NITM improvement at this location has been built: Add eastbound right-turn lane.																		
424. Los Alisos Blvd & Rockfield Blvd/Fordview St (City of Lake Forest)																		
Without NITM Improvements	0.81	D	0.81	D	0.92	E	0.92	E	0.91	E	0.89	D	0.91	E	0.89	D		
With NITM Improvements	Not Applicable																	
Conclusion – NITM improvements needed: Add 2nd northbound left-turn lane and southbound right-turn lane (2030).																		
432. Alicia Pkwy & Muirlands Blvd (City of Mission Viejo)																		
Without Existing (Built) NITM Improvements	0.67	B	0.92	E	0.73	C	0.96	E	0.72	C	0.94	E	0.72	C	0.94	E		
With NITM Improvements	0.63	B	0.82	D	0.68	B	0.84	D	0.67	B	0.83	D	0.67	B	0.83	D		
Conclusion – Needed NITM improvements: Add 2nd southbound, westbound and eastbound left-turn lanes (2015). Note: The following NITM improvement at this location has been built: Convert southbound right-turn lane to 4th through lane.																		

TABLE 3-6 (CONT.)

INTERSECTION ANALYSIS SUMMARY (NITM IMPROVEMENT LOCATIONS)

Intersection	2015				2030				Post-2030				
	AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour		
	ICU	LOS											
558. Ridge Valley/O Street & Irvine Blvd (City of Irvine)													
Without NITM Improvements	0.72	C	0.93	E	0.72	C	0.87	D	0.74	C	0.96	E	
With NITM Improvements	0.68	B	0.80	C	0.72	C	0.75	C	0.74	C	0.81	D	
Conclusion – Needed NITM improvement: Add 2nd eastbound left-turn lane (2015).													

Abbreviations: ATMS – Advanced Transportation Management System

ICU – intersection capacity utilization

LOS – level of service

PA – Planning Area (City of Irvine)

TMSOS – Traffic Management Systems Operation Study

¹ LOS E is acceptable at this location.

² ICU includes a 0.05 ATMS credit.

This is a LOS deficiency.

TABLE 3-7

FREEWAY RAMP ANALYSIS SUMMARY (NITM IMPROVEMENT LOCATIONS)

Ramp	Without NITM Improvements						With NITM Improvements									
	AM Peak Hour		PM Peak Hour		Lanes	Cap.	AM Peak Hour		PM Peak Hour		LOS	LOS				
	Volume	V/C	LOS	V/C			Volume	V/C	Volume	V/C						
I-5 at Alton Pkwy (Southbound Off-Ramp)																
2015	2	2,250	2,149	.96	E	973	.43	A	Not Applicable							
2030	2	2,250	2,107	.94	E	960	.43	A	Not Applicable							
Post-2030	2	2,250	2,217	.99	E	1,010	.45	A	Not Applicable							
Conclusion – Needed NITM improvement (since LOS E or worse without improvement): Add 2nd auxiliary lane from I-5 to the off-ramp (no timeframe).																
I-5 at Bake Pkwy (Southbound Off-Ramp)																
2015	2	3,000	3,295	1.10	F	2,542	.85	D	3	4,500	3,295	.73	C	2,542	0.56	A
2030	2	3,000	3,044	1.01	F	2,435	.81	D	3	4,500	3,044	.68	B	2,435	.54	A
Post-2030	2	3,000	3,021	1.01	F	2,433	.81	D	3	4,500	3,021	.67	B	2,433	.54	A
Conclusion – Needed NITM improvement: Widen connector from I-5 to I-405 exit at Bake Pkwy to 2 lanes (2015).																
I-5 at Culver Dr (Southbound Off-Ramp)																
2015	2	2,250	1,136	.50	A	2,142	.95	E	Not Applicable							
2030	2	2,250	966	.43	A	2,183	.97	E	Not Applicable							
Post-2030	2	2,250	928	.41	A	2,020	.90	D	Not Applicable							
Conclusion – Needed NITM improvement (since LOS E or worse without improvement): Add 2nd auxiliary lane from I-5 to the off-ramp (no timeframe).																
I-5 at El Toro Rd (Northbound Loop On-Ramp)																
2015	Not Applicable						1	1,500	1,140	.76	C	960	.64	B		
2030	Not Applicable						1	1,500	1,249	.83	D	950	.63	B		
Post-2030	Not Applicable						1	1,500	1,138	.76	C	1,050	.70	B		
Note: The NITM improvement at this location has been built (convert HOV preferential lane to a 2nd metered mixed-flow lane).																
I-5 at El Toro Rd (Southbound Off-Ramp)																
2015	2	2,250	1,498	.67	B	1,363	.61	B	2	2,250	1,533	.68	B	1,300	.58	A
2030	2	2,250	2,825	1.26	F	2,774	1.23	F	2	3,000	2,825	.94	E	2,774	.92	E
Post-2030	2	2,250	2,923	1.30	F	2,998	1.33	F	2	3,000	2,923	.97	E	2,998	1.00	E
Conclusion – Needed NITM improvement: Add 2nd auxiliary lane from I-5 to the off-ramp (2030).																
I-5 at Jamboree Rd (Northbound Off-Ramp)																
2015	1	1,500	1,533	1.02	F	1,300	.87	D	2	2,250	1,533	.68	B	1,300	.58	A
2030	1	1,500	1,543	1.03	F	1,270	.85	D	2	2,250	1,543	.69	B	1,270	.56	A

TABLE 3-7 (CONT.)

FREEWAY RAMP ANALYSIS SUMMARY (NITM IMPROVEMENT LOCATIONS)

Ramp	Without NITM Improvements						With NITM Improvements							
	AM Peak Hour			PM Peak Hour			AM Peak Hour			PM Peak Hour				
	Lanes	Cap.	Volume	V/C	LOS	F	Lanes	Cap.	Volume	V/C	LOS	Volume	V/C	LOS
Post-2030	1	1,500	1,539	1.03	.87	D	2	2,250	1,539	.68	B	1,310	.58	A
Conclusion – Needed NITM improvement: Add 2nd drop lane from I-5 to the off-ramp (2030).														
I-5 at Jamboree Rd (Southbound Off-Ramp)														
2015							2	3,000	1,530	.51	A	1,528	.51	A
2030							2	3,000	1,429	.48	A	1,482	.49	A
Post-2030							2	3,000	1,429	.48	A	1,435	.48	A
Conclusion – Needed NITM improvement: Add 2nd drop lane from I-5 to the off-ramp (2015).														
I-5 at Jeffrey Rd (Southbound On-Ramp)														
2015	1	1,080	890	.82	D	.56	A							
2030	1	1,080	1,226	1.14	F	.71	C	1	1,500	1,226	.82	D	770	.51
Post-2030	1	1,080	1,289	1.19	F	.78	C	1	1,500	1,289	.86	D	840	.56
Conclusion – Needed NITM improvement: Convert HOV preferential lane to a 2nd metered mixed-flow lane (2030).														
I-5 at Sand Canyon Ave (Northbound On-Ramp)														
2015								1	1,500	481	.32	A	1,110	.74
2030								1	1,500	760	.51	A	1,490	.99
Post-2030								1	1,500	750	.50	A	1,590	1.06
Note: The NITM improvement at this location has been built (convert HOV preferential lane to a 2nd metered mixed-flow lane).														
I-405 at Irvine Center Dr (Southbound Off-Ramp)														
2015	2	2,250	2,012	.89	D	.69	B							
2030	2	2,250	2,053	.91	E	.67	B							
Post-2030	2	2,250	1,996	.89	D	.62	B							
Conclusion – Needed NITM improvement (since LOS E or worse without improvement): Add 2nd auxiliary lane from I-405 to the off-ramp (no timeframe).														
I-405 at Jeffrey Rd (Northbound Off-Ramp)														
2015								2	2,250	1,028	.46	A	1,574	.70
2030								2	2,250	1,248	.55	A	1,850	.82
Post-2030								2	2,250	1,517	.67	B	1,920	.85
Note: The NITM improvement at this location has been built (add 2nd drop lane from I-405 to the off-ramp).														

TABLE 3-7 (CONT.)

FREEWAY RAMP ANALYSIS SUMMARY (NITM IMPROVEMENT LOCATIONS)

Ramp	Without NITM Improvements						With NITM Improvements						
	AM Peak Hour			PM Peak Hour			AM Peak Hour			PM Peak Hour			
	Lanes	Cap.	Volume	V/C	LOS	LOS	Volume	V/C	LOS	LOS	Volume	V/C	LOS
I-405 at Sand Canyon Ave (Northbound Direct On-Ramp)													
2015	1	1,500	1,200	.80	C	C	1,500	1,200	.80	C	1,100	.73	C
2030	1	1,500	1,210	.81	D	D	1,500	1,210	.81	D	1,340	.89	D
Post-2030	1	1,500	1,200	.80	C	C	1,500	1,200	.80	C	1,360	.91	E
Note: The NITM improvement at this lane has been built (convert HOV preferential lane to a 2nd metered mixed-flow lane).													
I-405 at Sand Canyon Ave (Southbound Off-Ramp)													
2015	1	1,500	1,550	1.03	F	B	2,250	1,550	.69	B	951	.42	A
2030	1	1,500	1,820	1.21	F	C	2,250	1,820	.81	D	1,061	.47	A
Post-2030	1	1,500	1,953	1.30	F	B	2,250	1,953	.87	D	1,045	.46	A
Conclusion – Needed NITM improvement: Add 2nd drop lane from I-405 to the off-ramp (2015).													
SR-133 at Barranca Pkwy (Southbound Loop On-Ramp)													
2015	1	1,080	119	.11	A	A	1,500	119	.08	A	1,140	.76	C
2030	1	1,080	140	.13	A	A	1,500	140	.09	A	1,180	.79	C
Post-2030	1	1,080	129	.12	A	A	1,500	129	.09	A	1,200	.80	C
Conclusion – Needed NITM improvement: Convert HOV preferential lane to a 2nd metered mixed-flow lane (2015).													

Abbreviations: HOV – high occupancy vehicle
LOS – level of service
V/C – volume/capacity ratio
This is a LOS deficiency.

TABLE 3-8

FREEWAY MAINLINE ANALYSIS SUMMARY (NITM IMPROVEMENT LOCATIONS)

Location	Direction	Without NITM Improvements						With NITM Improvements						
		AM Peak Hour			PM Peak Hour			AM Peak Hour			PM Peak Hour			
		Lanes	Cap.	Volume	V/C	LOS	Volume	V/C	LOS	Lanes	Cap.	Volume	V/C	LOS
I-5 (Sand Canyon Ave to Jeffrey Rd)														
2015	Northbound	5+1H	11,600	12,128	1.05	F	10,107	.87	D	6+1H	13,600	12,128	.89	D
	Southbound	5+1H	11,600	10,607	.91	E	10,892	.94	E	Not Applicable				
2030	Northbound	5+1H	11,600	13,291	1.15	F	11,175	.96	E	6+1H	13,600	13,291	.98	E
	Southbound	5+1H	11,600	12,031	1.04	F	11,661	1.01	F	6+1H	13,600	12,031	.88	D
Post-2030	Northbound	5+1H	11,600	12,694	1.09	F	10,542	.94	E	6+1H	13,600	12,694	.93	E
	Southbound	5+1H	11,600	11,874	1.02	F	11,348	.98	E	6+1H	13,600	11,874	.87	D
Conclusion – Needed NITM improvements: Add 6th northbound mixed-flow lane (2015), and add southbound mixed-flow lanes including a 2nd drop lane from I-5 to the southbound off-ramp at Sand Canyon Avenue (2030).														
I-405 (Sand Canyon Ave to Jeffrey Rd)														
2015	Northbound	4+1H	9,600	12,540	1.31	F	8,787	.92	E	5+1H	11,600	12,540	1.08	F
	Southbound	4+1H	9,600	8,310	.87	D	10,412	1.08	F	5+1H	11,600	8,310	.72	C
2030	Northbound	4+1H	9,600	12,998	1.35	F	9,383	.98	E	5+1H	11,600	12,998	1.12	F
	Southbound	4+1H	9,600	9,382	.98	E	10,515	1.10	F	5+1H	11,600	9,382	.81	D
Post-2030	Northbound	4+1H	9,600	12,438	1.30	F	9,348	.97	E	5+1H	11,600	12,438	1.07	F
	Southbound	4+1H	9,600	9,301	.97	E	10,002	1.04	F	5+1H	11,600	9,301	.80	D
Conclusion – Needed NITM improvements: Add 5th northbound and southbound mixed-flow lanes (2015).														
SR-133 (I-405 to Lake Forest Dr)														
2015	Northbound	Not Applicable												
	Southbound	3	6,000	2,839	.47	A	2,886	.47	A	3	6,000	2,839	.47	A
2030	Northbound	Not Applicable												
	Southbound	3	6,000	4,090	.68	B	3,180	.53	A	3	6,000	4,090	.68	B
Post-2030	Northbound	Not Applicable												
	Southbound	3	6,000	4,400	.73	C	3,444	.58	A	3	6,000	4,400	.73	C
Conclusion – Planned NITM improvement: Widen to six lanes (PA18 improvement planned by 2015).														

Abbreviations: H – high occupancy vehicle LOS – level of service PA – Planning Area (City of Irvine) V/C – volume/capacity ratio

This is a LOS deficiency.

TABLE 3-9

NITM PROGRAM IMPROVEMENTS THAT ARE NOT NEEDED BASED ON THE LOS REVIEW

Location	Jurisdiction	NITM Improvements That Are No Longer Needed	NITM Improvements That Are Still Needed
FULLY FUNDED NITM PROGRAM IMPROVEMENTS			
310. Sand Canyon Ave & Alton Pkwy	Irvine	Add second northbound right-turn lane or provide northbound free right-turn lane.	None.
345. Alton Pkwy & I-5 Northbound Ramps	Irvine	Restripe westbound approach to provide 2.5 left-turn lanes and 0.5 right-turn lanes.	None.
FAIR SHARE FUNDED NITM PROGRAM IMPROVEMENTS			
348. Alton Pkwy & Irvine Center Dr	Irvine	Convert northbound right-turn lane to free right-turn lane, add fourth northbound through lane, and restripe westbound approach to provide two left-turn lanes, 2.5 through lanes and 1.5 right-turn lanes.	None.

Abbreviations:

ATMS – Advanced Transportation Management System

LOS – Level of Service

NITM – North Irvine Transportation Mitigation (NITM) Program

TMSOS – Traffic Management Systems Operation Study

- **I-5 Northbound On-Ramp at Sand Canyon Avenue (Caltrans):** Post-2030 PM deficiency.
- **I-405 Mainline from Sand Canyon Avenue to Jeffrey Road (Caltrans):** 2015, 2030 and Post-2030 AM northbound deficiencies.

Long range (Post-2030) non-NITM Program improvements that address the 2015 and 2030 deficiencies noted at the second and third intersections listed above (#303. Sand Canyon Avenue and I-5 Northbound Ramps/Marine Way, and #306. Sand Canyon Avenue and Oak Canyon/Laguna Canyon Road) are planned, and therefore no further review of possible additional or alternate NITM Program improvements was performed in this study for these three intersections. Also, the deficiency at the Laguna Canyon Road/Old Laguna Canyon Road intersection (#321) is anticipated to be resolved by the currently proposed amendment to the Master Plan of Arterial Highways (MPAH) to delete the extensions of Bake Parkway and Santa Maria Avenue to Laguna Canyon Road. The remaining intersection, freeway ramp and freeway mainline locations listed above were reviewed to determine if alternate, less costly improvements that would result in acceptable levels of service could be identified. Each of the deficient locations would operate acceptably only if additional improvements, not alternate improvements, were to be implemented. Such improvements are not proposed here because the NITM Ordinance prohibits additional improvements or more costly alternate improvements from being introduced into the NITM Program.

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4.0 TRAFFIC SHARES AND ALLOCATION OF IMPROVEMENT COSTS

In this chapter, potential updates to the List of NITM Improvements are summarized based on the findings of the year 2015, year 2030 and Post-2030 review. Traffic share data for each of the locations included in the resulting List of NITM Improvements is then presented and utilized to re-allocate updated costs of the improvements to the NITM Program Future Development Areas.

4.1 Updates To The List of NITM Improvements

The results of the review of the List of NITM Improvements based on year 2015, year 2030 and Post-2030 traffic conditions indicate that NITM improvements in Irvine at three intersection locations are potential candidates for deletion from the NITM Program, which were summarized in Table 3-9 in the previous chapter. Two of the intersection locations involve improvements that are fully funded by the NITM Program, and the other one intersection involves improvements that are fair share funded by the NITM Program.

The NITM improvements at the following remaining three City of Irvine intersections were found to no longer be needed:

Fully Funded NITM Program Improvement Locations

- Intersection #310. Sand Canyon Avenue & Alton Parkway (City of Irvine)
- Intersection #345. Alton Parkway & I-5 Northbound Ramps (City of Irvine)

Fair Share Funded NITM Program Improvement Locations

- Intersection #348. Alton Parkway & Irvine Center Drive (City of Irvine)

The NITM improvements at these locations have been evaluated in terms of the Irvine Transportation Analysis Model version (ITAM 8.4-10, February 2012 version) actively utilized for evaluation purposes during 2011 and 2012. However, the City of Irvine is engaged in the process of developing a new version of ITAM which is tied to OCTAM 3.4. ITAM 12 consists of new trip distribution characteristics which are consistent with

updated sub regional travel patterns. Decisions regarding these potential deletions should not be made until long-range traffic projections are further reviewed.

4.2 Updated NITM Improvement Location Traffic Shares

This sub-section summarizes the updated traffic shares that were developed for use in reallocating the costs of the List of NITM Improvements to the NITM Program Future Development Areas. Per the requirements of City Resolution No. 03-61 Section III D5 and E4 of the NITM Scope of Work for Comprehensive NITM Traffic Studies, the updated traffic shares for each NITM improvement location were determined based on Irvine Transportation Analysis Model (ITAM) average daily traffic (ADT) select link analysis procedures using the same Post-2025 version of ITAM that was applied in the PA40 GPA/ZC Fee Reallocation, which was completed in 2011 and which incorporates the previous interim review (PA1/9, 2006) and Five-Year Review (completed in 2010). For calculating the ADT select link-based traffic shares for this study, the only changes that were made to the Post-2025 ITAM model that was applied in the PA 40 GPA/ZC NITM Reallocation Study was to replace the Great Park Neighborhoods 2011 GPA/ZC land use and on-site circulation system with the approved Great Park Neighborhoods land use/circulation plan included within the approved Great Park Neighborhoods 2011 GPA/ZC.

Table 4-1 summarizes the resulting Post-2025 ADT volumes and corresponding traffic shares for the locations where intersection, arterial roadway, and freeway mainline, ramp and interchange improvements are included in the List of NITM Improvements.

4.3 Allocation of Improvement Costs

The updated ADT traffic shares summarized in the previous section serve as the basis for allocating the improvement costs for the List of NITM Improvements to the NITM Future Development Areas, which in turn provide the overall allocated costs used to recalculate the NITM Fees for each of the NITM Future Development Areas. In this study, re-allocated NITM fees were calculated based upon the following steps:

Table 4-1 (Cont.)

Post-2025 ADT Traffic Shares

Location	Existing Traffic	Future Traffic																Total Traffic (Existing & Future)	
		Irvine Northern Sphere Future Development Areas								Orange County Great Park Future Development Areas									
		PA40	PA5B	PA6	PASB	PASA	PA9A	PA9B	Sub-Total	GP I	GP II	GP III	GP IV	Sub-Totals	PA1	Remainder of Region	Remainder of Region		Future Traffic
379. Lake Forest Dr & Muirlands Blvd	ADT Share	46,898 65.4%	100 0.1%	3 0.0%	57 0.1%	1 0.0%	5 0.0%	20 0.0%	86 0.1%	187 0.3%	98 0.1%	1,171 1.6%	436 0.6%	1892 2.6%	10 0.0%	10,324 14.4%	12,452 17.4%	24,864 34.6%	71,762 100.0%
383. Lake Forest Dr & Avd Carlota/I-5	ADT Share	53,964 57.9%	107 0.1%	24 0.0%	341 0.4%	6 0.0%	66 0.1%	112 0.1%	549 0.6%	248 0.3%	364 0.4%	238 0.3%	141 0.2%	991 1.1%	46 0.0%	18,260 19.6%	19,365 20.8%	39,318 42.1%	93,282 100.0%
406. Laguna Canyon Rd & Lake Forest Dr	ADT Share	48,610 60.3%	396 0.5%	100 0.1%	372 0.5%	18 0.0%	231 0.3%	336 0.4%	1,057 1.3%	834 1.0%	73 0.1%	39 0.0%	46 0.1%	992 1.2%	207 0.3%	18,021 14.0%	11,280 14.0%	31,953 39.7%	80,563 100.0%
407. Laguna Canyon Rd & Bake Pkwy	ADT Share	38,796 65.6%	277 0.5%	66 0.1%	252 0.4%	11 0.0%	136 0.2%	201 0.3%	666 1.1%	501 0.8%	159 0.3%	184 0.3%	111 0.2%	955 1.6%	146 0.2%	9,652 16.3%	8,678 14.7%	20,374 34.4%	59,170 100.0%
Interchanges																			
SR-133 at Trabuco Rd	ADT Share	12,371 30.3%	3,680 9.0%	30 0.1%	940 2.3%	18 0.0%	1,072 2.6%	1,743 4.3%	3,803 9.3%	8821 21.6%	1,897 4.7%	289 0.7%	29 0.1%	11,036 27.1%	204 0.5%	5,766 14.1%	3,919 9.6%	28,408 69.7%	40,779 100.0%
FAIR SHARE FUNDED IMPROVEMENTS IN THE NITM PROGRAM																			
Intersections																			
123. Jamboree Rd & Tustin Ranch Rd	ADT Share	25,851 64.6%	203 0.5%	106 0.3%	300 0.7%	17 0.0%	266 0.7%	225 0.6%	914 2.3%	74 0.2%	53 0.1%	85 0.2%	18 0.0%	230 0.6%	1,486 3.7%	4,217 10.5%	7,104 17.8%	14,154 35.4%	40,005 100.0%
228. Culver Dr & Barranca Pkwy	ADT Share	58,193 71.6%	357 0.4%	294 0.4%	110 0.1%	42 0.1%	194 0.2%	436 0.5%	1,076 1.3%	114 0.1%	91 0.1%	110 0.1%	33 0.0%	348 0.4%	1,569 1.9%	11,588 14.3%	8,091 10.0%	23,029 28.4%	81,222 100.0%
290. Jeffrey Rd & Barranca Pkwy	ADT Share	51,671 58.1%	2,367 2.7%	885 1.0%	954 1.1%	272 0.3%	1,723 1.9%	2,870 3.2%	6,704 7.5%	630 0.7%	476 0.5%	301 0.3%	53 0.1%	1,460 1.6%	429 0.5%	17,630 19.8%	8,701 9.8%	37,291 41.9%	88,962 100.0%
293. Jeffrey Rd & I-405 northbound ramps	ADT Share	43,460 61.5%	1,296 1.8%	548 0.8%	645 0.9%	154 0.2%	1,161 1.6%	1,744 2.5%	4,252 6.0%	405 0.6%	326 0.5%	285 0.4%	114 0.2%	1,130 1.6%	249 0.4%	13,899 19.7%	6,369 9.0%	27,195 38.5%	70,655 100.0%
327. Barranca Pkwy & Technology Dr	ADT Share	22,403 54.3%	240 0.6%	27 0.1%	262 0.6%	6 0.0%	181 0.4%	267 0.6%	743 1.8%	309 0.7%	280 0.7%	827 2.0%	386 0.9%	1,802 4.4%	43 0.1%	13,564 32.9%	2,470 6.0%	18,862 45.7%	41,265 100.0%
344. Alton Pkwy & Technology Dr West	ADT Share	46,255 52.2%	120 0.1%	77 0.1%	301 0.3%	16 0.0%	90 0.1%	139 0.2%	623 0.7%	438 0.5%	1,237 1.4%	3,816 4.3%	2,519 2.8%	8,010 9.0%	104 0.1%	27,269 30.8%	6,165 7.0%	42,291 47.8%	88,546 100.0%
348. Alton Pkwy & Irvine Center Dr	ADT Share	34,722 48.2%	71 0.1%	10 0.0%	58 0.1%	2 0.0%	47 0.1%	80 0.1%	197 0.3%	94 0.1%	305 0.4%	1,033 1.4%	869 1.2%	3,201 3.2%	18 0.0%	29,484 40.9%	5,215 7.2%	37,286 51.8%	72,008 100.0%
358. Irvine Center Dr & Enterprise Dr	ADT Share	33,831 46.7%	61 0.1%	10 0.0%	56 0.1%	2 0.0%	42 0.1%	70 0.2%	180 0.2%	95 0.1%	48 0.1%	199 0.3%	227 0.3%	569 0.8%	18 0.0%	31,754 43.9%	5,974 8.3%	38,556 53.3%	72,387 100.0%
359. Irvine Center Dr & I-405 southbound ramps	ADT Share	33,469 46.9%	101 0.1%	24 0.0%	113 0.2%	4 0.0%	91 0.1%	136 0.2%	368 0.5%	231 0.3%	30 0.0%	23 0.0%	242 0.3%	526 0.7%	36 0.1%	30,550 42.8%	6,307 8.8%	37,888 53.1%	71,357 100.0%
378. Lake Forest Dr & Jeronimo Rd	ADT Share	42,926 64.8%	57 0.1%	3 0.0%	116 0.2%	1 0.0%	13 0.0%	10 0.0%	143 0.2%	154 0.2%	208 0.3%	1,051 1.6%	296 0.4%	1,709 2.6%	6 0.0%	8,801 13.3%	12,626 19.1%	23,342 35.2%	66,268 100.0%
380. Lake Forest Dr & Rockfield Blvd	ADT Share	65,002 65.1%	147 0.1%	22 0.0%	610 0.6%	6 0.0%	52 0.1%	104 0.8%	794 0.8%	534 0.5%	785 0.8%	627 0.6%	556 0.6%	2,502 2.5%	47 0.0%	13,930 17.5%	17,460 34.9%	34,880 39.9%	99,882 100.0%
387. Ridge Route Dr & Rockfield Blvd	ADT Share	41,967 73.8%	47 0.1%	9 0.0%	257 0.5%	2 0.0%	23 0.0%	37 0.1%	328 0.6%	283 0.5%	382 0.7%	400 0.7%	328 0.6%	1,393 2.4%	17 0.0%	3,768 6.6%	9,375 16.5%	14,928 26.2%	56,895 100.0%
390. Paseo de Valencia & Avd de la Carlota	ADT Share	48,603 75.3%	157 0.2%	39 0.1%	82 0.1%	7 0.0%	76 0.1%	117 0.2%	321 0.5%	342 0.5%	65 0.1%	189 0.3%	99 0.2%	695 1.1%	81 0.1%	4,433 6.9%	10,281 15.9%	15,968 24.7%	64,571 100.0%
396. El Toro Rd & Avd de la Carlota	ADT Share	57,535 80.4%	90 0.1%	21 0.0%	188 0.3%	4 0.0%	41 0.1%	63 0.1%	317 0.4%	230 0.3%	305 0.4%	214 0.3%	139 0.2%	888 1.2%	47 0.1%	3,266 4.6%	9,424 13.2%	14,032 19.6%	71,567 100.0%
420. El Toro Rd & Jeronimo Rd	ADT Share	54,864 75.7%	38 0.1%	6 0.0%	429 0.6%	0 0.0%	11 0.0%	8 0.0%	454 0.6%	220 0.3%	622 0.9%	714 1.0%	206 0.3%	1,762 2.4%	10 0.0%	4,062 5.6%	11,289 15.6%	17,615 24.3%	72,479 100.0%
422. Los Alisos Blvd & Jeronimo Rd	ADT Share	41,782 80.2%	25 0.0%	4 0.0%	82 0.2%	0 0.0%	8 0.0%	5 0.0%	99 0.2%	104 0.2%	136 0.3%	492 0.9%	154 0.3%	886 1.7%	4 0.0%	2,563 4.9%	6,725 12.9%	10,302 19.8%	52,084 100.0%
423. Muirlands Blvd & Los Alisos Blvd	ADT Share	49,931 80.4%	32 0.1%	1 0.0%	175 0.3%	0 0.0%	0 0.0%	1 0.0%	177 0.3%	82 0.1%	250 0.4%	584 0.9%	171 0.3%	1,087 1.7%	0 0.0%	2,139 3.4%	8,755 14.1%	12,190 19.6%	62,121 100.0%

Table 4-1 (Cont.)

Post-2025 ADT Traffic Shares

Location	Existing Traffic		Future Traffic												Total Traffic (Existing & Future)			
	Irvine Northern Sphere Future Development Areas						Orange County Great Park Future Development Areas						PA1	Remainder of Irvine	Remainder of Region	Future Traffic		
	PA40	PA5B	PA6	PASA	PA9A	PA9B	Sub-Total	GP I	GP II	GP III	GP IV	Sub-Total						
424. Los Alisos Blvd & Rockfield Blvd/Fordview	ADT	29,500	12	29	0	1	32	21	68	108	55	252	0	742	4,901	5,939	35,439	
	Share	83.2%	0.0%	0.1%	0.0%	0.0%	0.1%	0.1%	0.2%	0.3%	0.2%	0.7%	0.0%	2.1%	13.8%	16.8%	100.0%	
432. Alicia Pkwy & Muirlands Blvd	ADT	72,861	68	145	2	5	172	79	195	407	155	836	8	4,675	9,796	15,555	88,416	
	Share	82.4%	0.1%	0.2%	0.0%	0.0%	0.2%	0.1%	0.2%	0.5%	0.2%	0.9%	0.0%	5.3%	11.1%	17.6%	100.0%	
557. Ridge Valley & Irvine Blvd	ADT	26,106	1,274	439	4,216	59	7,393	8,439	3,144	236	56	11,875	529	5,618	9,309	35,998	62,104	
	Share	42.0%	2.1%	0.7%	6.8%	0.1%	11.9%	13.6%	5.1%	0.4%	0.1%	19.1%	0.9%	15.0%	25.4%	58.0%	100.0%	
Roadway Segments																		
Jamboree Rd (Portola Pkwy to north Tustin city)	ADT	25,851	203	300	17	266	914	74	53	85	18	230	1,486	4,217	7,104	14,154	40,005	
	Share	64.6%	0.5%	0.7%	0.0%	0.7%	2.3%	0.2%	0.1%	0.2%	0.0%	0.6%	3.7%	10.5%	17.8%	35.4%	100.0%	
Jeffrey Rd (future extension from Portola)	ADT	6,961	436	280	34	306	1,265	67	52	71	8	198	471	1,525	6,794	10,689	17,650	
	Share	39.4%	2.5%	1.6%	0.2%	1.7%	7.2%	0.4%	0.3%	0.4%	0.0%	1.1%	2.7%	8.6%	38.5%	60.6%	100.0%	
SR-133 (I-405 to Lake Forest Dr)	ADT	43,136	400	103	386	18	1,081	866	85	40	3	994	213	12,783	10,019	25,490	68,626	
	Share	62.9%	0.6%	0.3%	0.6%	0.3%	1.6%	1.3%	0.1%	0.1%	0.0%	1.4%	0.3%	18.6%	14.6%	37.1%	100.0%	
Freeway Mainline																		
I-5 (Sand Canyon Ave to Jeffrey Rd)	ADT	212,438	2,344	592	142	370	2,077	1,595	1,073	2,827	1,194	6,689	1,272	29,850	50,724	92,956	305,394	
	Share	69.6%	0.8%	0.2%	0.1%	0.7%	0.7%	0.5%	0.4%	0.9%	0.4%	2.2%	0.4%	9.8%	16.6%	30.4%	100.0%	
I-405 (Sand Canyon Ave to Jeffrey Rd)	ADT	177,327	820	634	0	263	1,313	1,134	789	1,232	805	3,960	0	31,945	33,711	71,749	249,076	
	Share	71.2%	0.3%	0.3%	0.0%	0.1%	0.5%	0.5%	0.3%	0.5%	0.3%	1.6%	0.0%	12.8%	13.5%	28.8%	100.0%	
Freeway Ramps																		
I-5 at Alton Pkwy (southbound off-ramp)	ADT	10,370	356	88	281	249	1,008	395	88	576	312	1,371	136	6,251	1,369	10,491	20,861	
	Share	49.7%	1.7%	0.4%	1.3%	1.2%	4.8%	1.9%	0.4%	2.8%	1.5%	6.6%	0.7%	30.0%	6.6%	50.3%	100.0%	
I-5 at Bake Pkwy (southbound off-ramp)	ADT	13,870	187	34	37	71	325	125	1	0	738	864	74	4,543	3,189	9,182	23,052	
	Share	60.2%	0.8%	0.1%	0.2%	0.3%	1.4%	0.5%	0.0%	0.0%	3.2%	3.7%	0.3%	19.7%	13.8%	39.8%	100.0%	
I-5 at Culver Dr (southbound off-ramp)	ADT	13,075	242	171	27	149	932	53	23	1	0	77	817	1,318	1,392	4,778	17,853	
	Share	73.2%	1.4%	1.0%	0.2%	0.8%	5.2%	0.3%	0.1%	0.0%	0.0%	0.4%	4.6%	7.4%	7.8%	26.8%	100.0%	
I-5 at El Toro Rd (northbound loop on-ramp)	ADT	10,058	63	15	36	30	129	180	99	172	99	550	34	1,492	1,112	3,380	13,438	
	Share	74.8%	0.5%	0.1%	0.3%	0.2%	1.0%	1.3%	0.7%	1.3%	0.7%	4.1%	0.3%	11.1%	8.3%	25.2%	100.0%	
I-5 at El Toro Rd (southbound off-ramp)	ADT	27,710	142	35	76	65	284	300	65	189	99	653	76	3,902	4,225	9,282	36,992	
	Share	74.3%	0.4%	0.1%	0.2%	0.2%	0.8%	0.8%	0.2%	0.5%	0.3%	1.8%	0.2%	10.5%	11.4%	25.1%	100.0%	
I-5 at Jamboree Rd (northbound off-ramp)	ADT	6,770	370	5	2	7	106	58	33	117	50	258	6	3,703	1,017	5,460	12,230	
	Share	55.4%	3.0%	0.0%	0.0%	0.1%	0.9%	0.5%	0.3%	1.0%	0.4%	2.1%	0.0%	30.3%	8.3%	44.6%	100.0%	
I-5 at Jamboree Rd (southbound off-ramp)	ADT	6,994	0	1	9	1	50	0	0	0	0	0	23	3,105	976	4,154	11,148	
	Share	62.7%	0.0%	0.0%	0.1%	0.0%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	27.9%	8.8%	37.3%	100.0%	
I-5 at Jeffrey Rd (southbound on-ramp)	ADT	9,576	53	220	1	66	535	61	35	97	82	275	186	2,352	1,687	5,088	14,664	
	Share	65.3%	0.4%	1.5%	0.0%	0.5%	3.6%	0.4%	0.2%	0.7%	0.6%	1.9%	1.3%	16.0%	11.5%	34.7%	100.0%	
I-5 at Sand Canyon Ave (northbound on-ramp)	ADT	6,093	1,120	7	20	8	58	308	411	852	0	1,571	7	3,107	796	6,659	12,752	
	Share	47.8%	8.8%	0.1%	0.2%	0.1%	0.5%	2.4%	3.2%	6.7%	0.0%	12.3%	0.1%	24.4%	6.2%	52.2%	100.0%	
I-405 at Irvine Center Dr (southbound off-ramp)	ADT	5,311	41	14	58	49	190	137	13	15	24	189	18	3,992	767	5,197	10,508	
	Share	50.5%	0.4%	0.1%	0.6%	0.5%	1.8%	1.3%	0.1%	0.1%	0.2%	1.8%	0.2%	38.0%	7.3%	49.5%	100.0%	
I-405 at Jeffrey Rd (northbound off-ramp)	ADT	12,622	16	0	0	0	0	33	19	64	78	194	0	3,309	2,041	5,560	18,182	
	Share	69.4%	0.1%	0.0%	0.0%	0.0%	0.0%	0.2%	0.1%	0.4%	0.4%	1.1%	0.0%	30.6%	11.2%	30.6%	100.0%	
I-405 at Sand Canyon Ave (northbound direct)	ADT	6,549	374	0	131	127	438	292	227	311	0	830	0	3,631	668	5,941	12,490	
	Share	52.4%	3.0%	0.0%	1.0%	1.0%	3.5%	2.3%	1.8%	2.5%	0.0%	6.6%	0.0%	29.1%	5.3%	47.6%	100.0%	
I-405 at Sand Canyon Ave (southbound off-ramp)	ADT	7,265	277	0	226	111	550	72	64	221	0	357	0	5,006	849	7,039	14,304	
	Share	50.8%	1.9%	0.0%	1.6%	0.8%	3.8%	0.5%	0.4%	1.5%	0.0%	2.5%	0.0%	35.0%	5.9%	49.2%	100.0%	
SR-133 at Barranca Pkwy (southbound loop on-ramp)	ADT	3,795	0	0	0	0	0	0	0	0	1	1	0	1,442	697	2,140	5,935	
	Share	63.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	24.3%	11.7%	36.1%	100.0%	

- **Step 1 – Update 2010 Improvement Costs:** The 2010 Improvement Costs for the List of NITM Improvements from the PA 40 Fee Re-Allocation Study are updated based on the corrected Caltrans Construction Index (CCI) published 10/25/10. The 2010 improvement costs applied to each NITM location were prepared by Hunsaker and Associates and are included in Appendix C-2. The overall results of Step 1 are included in Appendix Table D-1.
- **Step 2 – Update NITM Fees for 2011:** The Improvement Costs calculated in Step 1 are then updated based on the 2011 CCI and 2011 right-of-way costs according to the NITM Ordinance and then allocated to the NITM Future Development Areas (FDAs) using the Post-2025 ITAM traffic shares from the PA 40/12 Fee Re-Allocation Study. The resulting data establishes the 2011 update to the NITM FDA Fees and assumes no 2011 Great Park Neighborhoods GPA/ZC. The 2011 improvement costs applied to each NITM location were prepared by Hunsaker and Associates and are included in Appendix C-3. The overall results of Step 2 are included in Appendix Table D-2.
- **Step 3 –Re-Allocate 2011 Improvement Costs and Update NITM Fees:** The updated improvement costs calculated in Step 2 for the List of NITM improvements from the PA 40 Fee Re-Allocation Study are then allocated to the NITM FDAs using the Post-2025 ITAM traffic shares that assume the Great Park Neighborhoods GPA/ZC land use revisions. The overall results of Step 3 are included in Appendix Table D-3.
- **Step 4 – Initial Reallocation of NITM Fees for 2012:** The improvement costs calculated in Steps 2 and 3 are then updated based on the 2012 CCI and 2012 right-of-way costs according to the NITM Ordinance. Fees are then initially determined for the NITM FDAs using the Post-2025 ITAM traffic shares from this reallocation study. The 2012 improvement costs applied to each NITM location were prepared by Hunsaker and Associates and are included in Appendix C-4. The overall results of Step 4 are included in Appendix Table D-4.
- **Step 5 – Adjust Fully Funded Improvement Allocations:** Because the initial reallocation results for fully funded improvement from Step 4 yield fee differences in FDAs which are not a part of the Great Park Neighborhoods or PA 40, further adjustments are necessary. Appendix F describes the methodology for adjusting the fully funded cost shares of PA40 and the Orange County Great Park (OCGP) FDAs. The methodology evaluates relationships between previous and current fee

allocations in order to determine the net amount of fee changes in FDAs which are not a part of the Great Park Neighborhoods or PA 40. These fee changes are re-assigned to the PA 40 and OCGP FDAs based upon the share proportions calculated for the GPN 2011 GPA/ZC. Table 4-2 contains updated NITM obligations for FDAs and summarizes the adjusted improvement costs for Step 5, which includes the fully funded adjustments. For each improvement location in the List of NITM Improvements, the table lists the total cost of the improvement(s), traffic share percentages based on the updated ITAM select link procedures described earlier, and pro rata costs that have been allocated to each NITM Program Future Development Area. These cost allocations would serve as the baseline for future NITM re-allocation studies. Such future NITM re-allocation studies should include similar methodology for updating cost shares. However, the specific details of the subject GPA/ZC(s) could require a deviation from this methodology.

Detailed interim datasets are provided in Appendix Tables D-5, D-5A and D-6, and the resulting NITM fees for Step 5 were previously presented in Table 1-2.

The NITM fees shown on Table 4-2 for PA 40 represent a reallocation of the entire FDA. However, approximately 51.26% of the NITM fees for PA 40 are considered paid, and therefore, only approximately 48.74% of the PA 40 fees shown in Table 4-2 are subject to re-allocation. The table below shows how the unpaid portion of PA 40 fees have been adjusted as part of this study:

	PA 40 GPA/ZC Re-Allocation (PA 40 Fee Reallocation Study)	GPA 2011 GPA/ZC Re-Allocation With Fully Funded Adjustments (Table 4-2)
NITM fees based on Traffic Shares with Adjustments	\$44,612,810	\$40,664,109
Payment	\$22,866,840	
Remaining Fee	\$21,745,970	\$19,821,224

Table 4-2

Modified Allocation of Costs For The List of NITM Improvements - 2012 Costs

Location		Irvine Northern Sphere Future Development Areas							Orange County Great Park Future Development Areas					PA1	Remainder (a)	Total
		PA40	PA5B	PA6	PA8A	PA9A	PA9B	Sub-Total	GP I	GP II	GP III	GP IV	Sub-Total			
FULLY FUNDED IMPROVEMENTS IN THE NITM PROGRAM																
Intersections																
34. Red Hill Ave & Irvine Blvd (d)	Share	6.53%	18.87%	13.58%	0.69%	10.42%	19.87%	63.42%	14.69%	12.84%	1.89%	0.63%	30.05%	0.00%	0.00%	100%
	Cost	\$11,180	\$32,299	\$23,244	\$1,181	\$17,836	\$34,011	\$108,570	\$25,149	\$21,969	\$3,236	\$1,079	\$51,432	\$0	\$0	\$171,165
91. Tustin Ranch Rd & Irvine Blvd (d)	Share	5.70%	17.90%	17.36%	0.66%	9.84%	21.33%	67.10%	13.46%	11.92%	1.34%	0.48%	27.20%	0.00%	0.00%	100%
	Cost	\$9,752	\$30,639	\$29,714	\$1,130	\$16,842	\$36,509	\$114,852	\$23,041	\$20,406	\$2,299	\$814	\$46,561	\$0	\$0	\$171,165
125. Jamboree Rd & Irvine Blvd	Share	6.05%	21.39%	11.84%	0.67%	10.39%	21.21%	65.51%	13.08%	11.94%	2.42%	1.00%	28.44%	0.00%	0.00%	100%
	Cost	\$64,888	\$229,515	\$127,043	\$7,189	\$111,485	\$227,583	\$702,922	\$140,357	\$128,120	\$25,974	\$10,739	\$305,189	\$0	\$0	\$1,073,000
222. Culver Dr & Trabuco Rd	Share	28.89%	11.67%	4.95%	0.67%	28.68%	10.12%	56.10%	7.34%	3.30%	2.94%	1.42%	15.01%	0.00%	0.00%	100%
	Cost	\$922,077	\$372,456	\$157,982	\$21,383	\$915,341	\$322,986	\$1,790,468	\$234,321	\$105,417	\$93,947	\$45,335	\$479,020	\$0	\$0	\$3,191,565
223. Culver Dr & I-5 southbound ramps	Share	20.64%	15.30%	6.77%	0.78%	28.93%	12.87%	64.65%	6.95%	4.11%	12.87%	1.52%	14.71%	0.00%	0.00%	100%
	Cost	\$81,661	\$60,545	\$26,790	\$3,087	\$114,480	\$50,928	\$255,830	\$27,498	\$16,254	\$8,461	\$6,012	\$58,224	\$0	\$0	\$395,715
224. Culver Dr & Walnut Ave (d)	Share	20.21%	15.92%	5.97%	0.87%	28.10%	12.67%	63.53%	8.37%	4.78%	2.18%	0.93%	16.26%	0.00%	0.00%	100%
	Cost	\$34,601	\$27,250	\$10,219	\$1,490	\$48,097	\$21,687	\$108,741	\$14,323	\$8,177	\$3,732	\$1,591	\$27,823	\$0	\$0	\$171,165
235. Culver Dr & University Dr	Share	21.33%	5.49%	11.01%	1.10%	16.61%	11.26%	45.47%	11.56%	8.51%	8.86%	4.27%	33.20%	0.00%	0.00%	100%
	Cost	\$928,806	\$239,089	\$479,486	\$47,905	\$723,366	\$490,373	\$1,980,219	\$503,346	\$370,646	\$385,898	\$186,085	\$1,445,975	\$0	\$0	\$4,355,000
249. Yale Ave & Irvine Blvd	Share	5.44%	27.03%	11.87%	0.23%	7.95%	23.75%	70.83%	11.60%	11.05%	0.83%	0.26%	23.73%	0.00%	0.00%	100%
	Cost	\$256,965	\$1,277,438	\$560,976	\$10,870	\$375,717	\$1,122,425	\$3,347,426	\$548,226	\$522,020	\$39,309	\$12,055	\$1,121,610	\$0	\$0	\$4,726,000
288. Jeffrey Rd & Walnut Ave/ I-5 southbound ramps	Share	33.48%	9.52%	6.57%	3.38%	21.22%	12.76%	53.45%	6.29%	4.18%	1.51%	1.08%	13.07%	0.00%	0.00%	100%
	Cost	\$378,842	\$107,707	\$74,332	\$38,241	\$240,079	\$144,364	\$604,722	\$71,128	\$47,314	\$17,100	\$12,274	\$147,815	\$0	\$0	\$1,131,379
289. Jeffrey Rd & Irvine Center Dr	Share	29.49%	8.89%	7.29%	2.89%	22.44%	13.55%	55.05%	6.27%	4.69%	3.35%	1.14%	15.46%	0.00%	0.00%	100%
	Cost	\$3,441,445	\$1,037,374	\$850,670	\$337,234	\$2,618,523	\$1,581,150	\$6,423,785	\$732,224	\$547,329	\$390,799	\$133,418	\$1,803,770	\$0	\$0	\$11,669,000
291. Jeffrey Rd & Alton Pkwy	Share	26.39%	7.35%	7.68%	2.21%	22.87%	14.02%	54.13%	6.43%	5.28%	5.42%	2.35%	19.48%	0.00%	0.00%	100%
	Cost	\$339,875	\$94,668	\$98,918	\$28,465	\$294,566	\$180,578	\$697,194	\$82,822	\$68,033	\$69,840	\$30,237	\$250,931	\$0	\$0	\$1,288,000
302. Sand Canyon Ave & Trabuco Rd	Share	26.99%	1.19%	9.71%	0.25%	25.67%	14.65%	51.48%	11.16%	4.58%	4.76%	1.04%	21.53%	0.00%	0.00%	100%
	Cost	\$112,500	\$4,960	\$40,475	\$1,042	\$107,003	\$61,067	\$214,589	\$46,501	\$19,077	\$19,826	\$4,346	\$89,750	\$0	\$0	\$416,839
303. Sand Canyon Ave & I-5 northbound ramps/Marine Wy	Share	36.44%	1.04%	6.54%	0.20%	15.63%	8.99%	32.40%	8.93%	6.82%	14.23%	1.19%	31.16%	0.00%	0.00%	100%
	Cost	\$1,181,282	\$33,717	\$212,027	\$6,484	\$506,724	\$291,456	\$1,050,408	\$289,615	\$220,942	\$461,296	\$38,457	\$1,010,310	\$0	\$0	\$3,242,000
305. Sand Canyon Ave & I-5 southbound ramps	Share	35.51%	1.18%	8.03%	0.23%	17.36%	10.41%	37.22%	10.14%	6.90%	9.95%	0.28%	27.27%	0.00%	0.00%	100%
	Cost	\$682,198	\$22,668	\$154,256	\$4,418	\$333,486	\$199,976	\$714,996	\$194,879	\$132,509	\$191,111	\$5,307	\$523,805	\$0	\$0	\$1,921,000
306. Sand Canyon Ave & Oak Canyon/Laguna Canyon Rd	Share	29.40%	1.40%	10.00%	0.28%	19.12%	12.72%	43.52%	10.68%	7.55%	8.59%	0.25%	27.08%	0.00%	0.00%	100%
	Cost	\$284,616	\$13,552	\$96,800	\$2,710	\$185,082	\$123,130	\$421,274	\$103,364	\$73,127	\$83,153	\$2,466	\$262,110	\$0	\$0	\$968,000
310. Sand Canyon Ave & Alton Pkwy	Share	25.29%	1.31%	8.94%	0.26%	15.07%	9.17%	34.75%	9.83%	8.07%	17.20%	4.85%	39.96%	0.00%	0.00%	100%
	Cost	\$88,020	\$4,559	\$31,111	\$905	\$52,444	\$31,912	\$120,930	\$34,222	\$28,098	\$59,858	\$16,871	\$139,049	\$0	\$0	\$348,000
311. Sand Canyon Ave & I-405 northbound ramps	Share	28.97%	0.72%	10.55%	0.15%	15.73%	9.92%	37.06%	10.42%	8.26%	14.11%	1.18%	33.97%	0.00%	0.00%	100%
	Cost	\$354,326	\$8,806	\$129,027	\$1,835	\$192,378	\$121,322	\$453,244	\$127,449	\$100,981	\$172,617	\$14,385	\$415,431	\$0	\$0	\$1,223,000
321. Laguna Canyon Rd & Old Laguna Canyon Rd	Share	22.81%	3.56%	10.67%	0.62%	11.26%	7.90%	34.01%	36.09%	3.55%	1.63%	1.92%	43.18%	0.00%	0.00%	100%
	Cost	\$457,296	\$71,378	\$213,934	\$12,431	\$225,763	\$158,395	\$681,901	\$723,594	\$71,105	\$32,624	\$38,480	\$865,803	\$0	\$0	\$2,005,000
338. Alton Pkwy & Irvine Blvd (e)	Share	4.35%	1.10%	22.68%	0.17%	4.22%	2.92%	31.10%	24.93%	6.04%	1.49%	64.55%	0.00%	0.00%	100%	
	Cost	\$121,949	\$30,826	\$635,583	\$4,764	\$118,261	\$81,830	\$871,545	\$698,666	\$899,248	\$169,166	\$41,821	\$1,808,902	\$0	\$0	\$2,802,396
345. Alton Pkwy & I-5 northbound ramps	Share	7.27%	1.62%	5.33%	0.36%	4.85%	2.83%	14.98%	6.48%	10.26%	38.05%	22.96%	77.75%	0.00%	0.00%	100%
	Cost	\$2,108	\$470	\$1,546	\$104	\$1,407	\$821	\$4,344	\$1,880	\$2,976	\$11,036	\$6,657	\$22,548	\$0	\$0	\$29,000
362. Bake Pkwy & Irvine Blvd (e)	Share	3.51%	0.85%	25.65%	0.10%	2.57%	2.04%	31.20%	25.65%	30.02%	4.51%	5.11%	65.29%	0.00%	0.00%	100%
	Cost	\$230,453	\$55,837	\$1,684,949	\$6,569	\$168,824	\$134,008	\$2,049,528	\$1,684,717	\$1,972,254	\$296,439	\$335,608	\$4,289,019	\$0	\$0	\$6,569,000
364. Bake Pkwy & Jeronimo Rd	Share	0.89%	0.31%	21.51%	0.01%	0.54%	1.12%	23.50%	11.17%	19.24%	25.78%	19.42%	75.61%	0.00%	0.00%	100%
	Cost	\$43,863	\$15,308	\$1,062,164	\$494	\$26,665	\$55,305	\$1,160,430	\$551,779	\$950,287	\$1,272,924	\$958,717	\$3,733,707	\$0	\$0	\$4,938,000
368. Bake Pkwy & I-5 southbound ramps	Share	5.91%	1.01%	7.07%	0.26%	4.42%	2.38%	15.14%	7.78%	17.14%	22.33%	31.70%	78.95%	0.00%	0.00%	100%
	Cost	\$173,304	\$29,603	\$207,222	\$7,621	\$129,550	\$69,758	\$443,753	\$227,990	\$502,403	\$654,568	\$928,981	\$2,313,943	\$0	\$0	\$2,931,000
379. Lake Forest Dr & Muirlands Blvd	Share	5.57%	0.18%	2.53%	0.09%	1.01%	0.23%	4.05%	8.93%	4.68%	55.93%	20.83%	90.37%	0.00%	0.00%	100%
	Cost	\$854	\$28	\$388	\$14	\$155	\$35	\$621	\$1,369	\$717	\$8,571	\$3,191	\$13,849	\$0	\$0	\$15,324

Table 4-2 (Cont.)

Modified Allocation of Costs For The List of NITM Improvements - 2012 Costs

Location		Irvine Northern Sphere Future Development Areas							Orange County Great Park Future Development Areas					PA1	Remainder (a)	Total
		PA40	PA5B	PA6	PA8A	PA9A	PA9B	Sub-Total	GP I	GP II	GP III	GP IV	Sub-Total			
383. Lake Forest Dr & Av Carlota/ I-5 southbound ramps (d) (e)	Share	7.39%	1.28%	20.37%	0.27%	5.69%	3.46%	31.06%	15.40%	22.61%	14.78%	8.76%	61.55%	0.00%	0.00%	100%
	Cost	\$88,349	\$15,296	\$243,421	\$3,226	\$67,995	\$41,347	\$371,167	\$184,056	\$270,147	\$176,635	\$104,645	\$735,484	\$0	\$0	\$1,195,000
406. Laguna Canyon Rd & Lake Forest Dr	Share	23.30%	3.60%	10.51%	0.64%	11.69%	8.12%	34.56%	35.43%	3.10%	1.66%	1.95%	42.14%	0.00%	0.00%	100%
	Cost	\$86,124	\$13,306	\$38,846	\$2,366	\$43,208	\$30,012	\$127,738	\$130,943	\$11,461	\$6,123	\$7,222	\$155,750	\$0	\$0	\$406,612
407. Laguna Canyon Rd & Bake Pkwy	Share	22.86%	2.99%	10.07%	0.51%	9.02%	6.21%	28.79%	25.36%	8.05%	9.32%	5.62%	48.35%	0.00%	0.00%	100%
	Cost	\$265,195	\$34,684	\$116,812	\$5,916	\$104,632	\$72,036	\$333,964	\$294,221	\$93,376	\$108,057	\$65,187	\$560,841	\$0	\$0	\$1,160,000
Interchanges																
SR-133 at Trabuco Rd	Share	25.77%	0.30%	2.95%	0.07%	7.52%	5.08%	15.92%	46.61%	10.02%	1.53%	0.15%	58.31%	0.00%	0.00%	100%
	Cost	\$27,356,108	\$318,485	\$3,131,772	\$74,313	\$7,983,366	\$5,393,018	\$16,900,954	\$49,479,068	\$10,640,720	\$1,621,069	\$162,668	\$61,903,525	\$0	\$0	\$106,160,363
Sub-Total Cost (Fully Funded)		\$37,998,635	\$4,182,460	\$10,439,706	\$633,386	\$15,723,275	\$11,078,021	\$42,056,099	\$57,176,748	\$17,845,113	\$6,385,670	\$3,174,648	\$84,582,179	\$0	\$0	\$164,673,688
FAIR SHARE FUNDED IMPROVEMENTS IN THE NITM PROGRAM																
Intersections																
123. Jamboree Rd & Tustin Ranch Rd	Share	0.51%	0.26%	0.75%	0.04%	0.56%	0.66%	2.28%	0.18%	0.13%	0.21%	0.04%	0.57%	3.71%	92.92%	100%
	Cost	\$39	\$21	\$58	\$3	\$44	\$52	\$178	\$14	\$10	\$17	\$3	\$45	\$289	\$7,227	\$7,778
228. Culver Dr & Barranca Pkwy	Share	0.44%	0.36%	0.14%	0.05%	0.54%	0.14%	1.32%	0.14%	0.11%	0.24%	0.14%	0.43%	1.93%	95.88%	100%
	Cost	\$3,464	\$2,852	\$1,067	\$407	\$4,230	\$1,882	\$10,439	\$1,106	\$883	\$1,067	\$320	\$3,376	\$15,222	\$755,499	\$788,000
290. Jeffrey Rd & Barranca Pkwy	Share	2.66%	0.99%	1.07%	0.31%	3.23%	1.94%	7.54%	0.71%	0.54%	0.34%	0.06%	1.64%	0.48%	87.68%	100%
	Cost	\$13,011	\$4,865	\$5,244	\$1,495	\$15,776	\$9,471	\$36,850	\$3,463	\$2,616	\$1,655	\$291	\$8,025	\$2,358	\$428,756	\$489,000
293. Jeffrey Rd & I-405 northbound ramps	Share	1.83%	0.78%	0.91%	0.22%	2.47%	1.64%	6.02%	0.57%	0.46%	0.40%	0.16%	1.60%	0.35%	90.20%	100%
	Cost	\$16,839	\$7,120	\$8,380	\$2,001	\$22,659	\$15,085	\$55,245	\$5,262	\$4,236	\$3,703	\$1,481	\$14,682	\$3,235	\$827,999	\$918,000
327. Barranca Pkwy & Technology Dr	Share	0.58%	0.07%	0.63%	0.01%	0.65%	0.44%	1.80%	0.75%	0.68%	0.75%	0.94%	4.37%	0.10%	93.15%	100%
	Cost	\$4,478	\$504	\$4,889	\$112	\$4,982	\$3,377	\$13,864	\$5,766	\$5,225	\$15,432	\$7,203	\$33,625	\$802	\$717,230	\$770,000
344. Alton Pkwy & Technology Dr West	Share	0.14%	0.09%	0.34%	0.02%	0.16%	0.10%	0.70%	0.49%	1.40%	4.31%	2.84%	9.05%	0.12%	90.00%	100%
	Cost	\$22	\$14	\$56	\$3	\$26	\$17	\$115	\$81	\$229	\$705	\$465	\$1,480	\$19	\$14,724	\$16,360
348. Alton Pkwy & Irvine Center Dr	Share	0.10%	0.01%	0.08%	0.00%	0.11%	0.07%	0.27%	0.13%	0.42%	1.43%	1.21%	3.20%	0.02%	96.41%	100%
	Cost	\$2,590	\$365	\$2,116	\$73	\$2,919	\$1,715	\$7,187	\$3,429	\$11,127	\$37,686	\$31,703	\$83,945	\$657	\$2,532,621	\$2,627,000
358. Irvine Center Dr & Enterprise Dr	Share	0.08%	0.01%	0.08%	0.00%	0.10%	0.06%	0.25%	0.13%	0.06%	0.27%	0.31%	0.79%	0.02%	98.86%	100%
	Cost	\$25	\$4	\$23	\$1	\$29	\$17	\$75	\$39	\$20	\$82	\$94	\$236	\$7	\$29,657	\$30,000
359. Irvine Center Dr & I-405 southbound ramps	Share	0.14%	0.03%	0.16%	0.01%	0.19%	0.13%	0.52%	0.32%	0.04%	0.03%	0.34%	0.74%	0.05%	98.56%	100%
	Cost	\$1,251	\$297	\$1,400	\$50	\$1,685	\$1,127	\$4,559	\$2,862	\$372	\$285	\$2,998	\$6,516	\$446	\$871,228	\$884,000
378. Lake Forest Dr & Jeronimo Rd	Share	0.09%	0.00%	0.18%	0.00%	0.02%	0.02%	0.22%	0.23%	0.31%	1.59%	0.45%	2.58%	0.01%	97.11%	100%
	Cost	\$2,142	\$113	\$4,359	\$38	\$376	\$488	\$5,373	\$5,787	\$7,816	\$39,491	\$11,122	\$64,215	\$225	\$2,418,044	\$2,490,000
380. Lake Forest Dr & Rockfield Blvd	Share	0.15%	0.02%	0.61%	0.01%	0.10%	0.05%	0.79%	0.53%	0.79%	0.63%	0.56%	2.50%	0.05%	96.51%	100%
	Cost	\$44	\$7	\$183	\$2	\$31	\$16	\$238	\$160	\$236	\$188	\$167	\$751	\$14	\$28,952	\$30,000
387. Ridge Route Dr & Rockfield Blvd	Share	0.08%	0.02%	0.45%	0.00%	0.07%	0.04%	0.58%	0.50%	0.67%	0.70%	0.58%	2.45%	0.03%	96.86%	100%
	Cost	\$150	\$29	\$822	\$6	\$118	\$74	\$1,049	\$905	\$1,222	\$1,280	\$1,049	\$4,456	\$54	\$176,290	\$182,000
390. Paseo de Valencia & Avd de la Carlota	Share	0.24%	0.06%	0.13%	0.01%	0.18%	0.12%	0.50%	0.53%	0.10%	0.29%	0.15%	1.08%	0.13%	98.06%	100%
	Cost	\$1,760	\$437	\$919	\$78	\$1,312	\$852	\$3,599	\$3,835	\$729	\$2,119	\$1,110	\$7,793	\$908	\$709,940	\$724,000
396. El Toro Rd & Avd de la Carlota	Share	0.13%	0.03%	0.26%	0.01%	0.09%	0.06%	0.44%	0.32%	0.43%	0.30%	0.19%	1.24%	0.07%	98.12%	100%
	Cost	\$15	\$3	\$31	\$1	\$10	\$7	\$51	\$37	\$49	\$35	\$23	\$144	\$8	\$11,394	\$11,612
420. El Toro Rd & Jeronimo Rd	Share	0.05%	0.01%	0.59%	0.00%	0.01%	0.02%	0.63%	0.30%	0.86%	0.99%	0.28%	2.43%	0.01%	96.88%	100%
	Cost	\$2,862	\$452	\$32,312	\$0	\$603	\$829	\$34,195	\$16,570	\$46,848	\$53,777	\$15,516	\$132,711	\$753	\$5,288,479	\$5,459,000
422. Los Alisos Blvd & Jeronimo Rd	Share	0.05%	0.01%	0.16%	0.00%	0.01%	0.02%	0.19%	0.20%	0.26%	0.94%	0.30%	1.70%	0.01%	98.05%	100%
	Cost	\$990	\$158	\$3,248	\$0	\$198	\$317	\$3,921	\$4,119	\$5,387	\$19,488	\$6,100	\$35,094	\$158	\$2,022,836	\$2,063,000
423. Muirlands Blvd & Los Alisos Blvd	Share	0.05%	0.00%	0.28%	0.00%	0.00%	0.00%	0.28%	0.13%	0.40%	0.94%	0.28%	1.75%	0.00%	97.91%	100%
	Cost	\$2,998	\$94	\$16,395	\$0	\$94	\$0	\$16,583	\$7,682	\$23,422	\$54,714	\$16,021	\$101,839	\$0	\$5,698,580	\$5,820,000
424. Los Alisos Blvd & Rockfield Blvd/Fordview St	Share	0.03%	0.00%	0.08%	0.00%	0.00%	0.00%	0.09%	0.06%	0.19%	0.30%	0.16%	0.71%	0.00%	99.16%	100%
	Cost	\$736	\$61	\$1,778	\$0	\$61	\$61	\$1,962	\$1,288	\$4,170	\$6,622	\$3,372	\$15,452	\$0	\$2,154,850	\$2,173,000
432. Alicia Pkwy & Muirlands Blvd	Share	0.08%	0.00%	0.16%	0.00%	0.02%	0.01%	0.19%	0.09%	0.22%	0.46%	0.18%	0.95%	0.01%	98.77%	100%
	Cost	\$5,157	\$303	\$10,996	\$152	\$1,213	\$379	\$13,044	\$5,991	\$14,788	\$30,865	\$11,754	\$63,398	\$607	\$6,622,795	\$6,705,000
557. Ridge Valley & Irvine Blvd	Share	2.05%	0.71%	6.79%	0.10%	2.47%	1.84%	11.90%	13.59%	5.06%	0.38%	0.09%	19.12%	0.85%	66.07%	100%
	Cost	\$3,426	\$1,180	\$11,337	\$159	\$4,133	\$3,071	\$19,880	\$22,693	\$8,454	\$635	\$151	\$31,932	\$1,423	\$110,339	\$167,000

Table 4-2 (Cont.)

Modified Allocation of Costs For The List of NITM Improvements - 2012 Costs

Location		Irvine Northern Sphere Future Development Areas							Orange County Great Park Future Development Areas					PA1	Remainder (a)	Total
		PA40	PA5B	PA6	PA8A	PA9A	PA9B	Sub-Total	GP I	GP II	GP III	GP IV	Sub-Total			
Roadway Segments																
Jamboree Rd (Portola Pkwy to north Tustin city limits)	Share	0.51%	0.26%	0.75%	0.04%	0.56%	0.66%	2.28%	0.18%	0.13%	0.21%	0.04%	0.57%	3.71%	92.92%	100%
	Cost	\$19,567	\$10,217	\$28,916	\$1,639	\$21,687	\$25,639	\$88,099	\$7,133	\$5,109	\$8,193	\$1,735	\$22,169	\$143,232	\$3,582,933	\$3,856,000
Jeffrey Rd (future extension from Portola Pkwy to SR-241)	Share	2.47%	1.17%	1.59%	0.19%	2.49%	1.73%	7.17%	0.38%	0.29%	0.40%	0.05%	1.12%	2.67%	86.57%	100%
	Cost	\$606,299	\$286,463	\$389,367	\$47,280	\$610,471	\$425,522	\$1,759,103	\$93,170	\$72,311	\$98,732	\$11,125	\$275,338	\$654,970	\$21,248,290	\$24,544,000
SR-133 (I-405 to Lake Forest Dr)	Share	0.58%	0.15%	0.56%	0.03%	0.49%	0.34%	1.58%	1.26%	0.12%	0.06%	0.00%	1.45%	0.31%	96.08%	100%
	Cost	\$28,870	\$7,434	\$27,860	\$1,299	\$24,467	\$16,961	\$78,022	\$62,504	\$6,135	\$2,887	\$217	\$71,742	\$15,373	\$4,759,098	\$4,953,105
Freeway Mainline																
I-5 (Sand Canyon Ave to Jeffrey Rd) (f)	Share	0.77%	0.19%	0.08%	0.05%	0.12%	0.24%	0.68%	0.52%	0.35%	0.93%	0.39%	2.19%	0.42%	95.95%	100%
	Cost	\$86,509	\$21,849	\$8,821	\$5,241	\$13,655	\$27,089	\$76,655	\$58,866	\$39,601	\$104,334	\$44,066	\$246,867	\$46,945	\$10,814,025	\$11,271,000
I-405 (Sand Canyon Ave to Jeffrey Rd)	Share	0.33%	0.00%	0.25%	0.00%	0.11%	0.17%	0.53%	0.46%	0.32%	0.49%	0.32%	1.59%	0.00%	97.55%	100%
	Cost	\$1,702	\$0	\$1,316	\$0	\$546	\$863	\$2,725	\$2,354	\$1,638	\$2,557	\$1,671	\$8,220	\$0	\$504,353	\$517,000
Freeway Ramps																
I-5 at Alton Pkwy (southbound off-ramp)	Share	1.71%	0.42%	1.35%	0.09%	1.19%	1.78%	4.83%	1.89%	0.42%	2.76%	1.50%	6.57%	0.65%	86.24%	100%
	Cost	\$77,869	\$19,249	\$61,464	\$3,937	\$54,465	\$81,369	\$220,483	\$86,400	\$19,249	\$125,991	\$68,245	\$299,884	\$29,748	\$3,935,016	\$4,563,000
I-5 at Bake Pkwy (southbound off-ramp)	Share	0.81%	0.15%	0.16%	0.05%	0.31%	0.16%	1.41%	0.54%	0.00%	0.75%	3.20%	3.75%	0.32%	93.71%	100%
	Cost	\$27,273	\$4,959	\$5,396	\$1,604	\$10,355	\$25,085	\$47,399	\$18,231	\$146	\$0	\$107,633	\$126,009	\$10,792	\$3,150,526	\$3,362,000
I-5 at Culver Drive (southbound off-ramp)	Share	1.36%	0.96%	0.15%	0.04%	0.83%	3.23%	5.22%	0.30%	0.13%	0.01%	0.00%	0.43%	4.58%	88.42%	100%
	Cost	\$82,049	\$57,977	\$9,154	\$2,712	\$50,518	\$195,630	\$315,991	\$17,969	\$7,798	\$339	\$0	\$26,107	\$277,001	\$5,351,852	\$6,053,000
I-5 at El Toro Rd (northbound loop on-ramp)	Share	0.47%	0.11%	0.27%	0.02%	0.22%	0.33%	0.96%	1.34%	0.74%	1.28%	0.74%	4.09%	0.25%	94.23%	100%
	Cost	\$1,191	\$284	\$680	\$57	\$567	\$851	\$2,438	\$3,402	\$1,871	\$3,251	\$1,871	\$10,396	\$643	\$239,332	\$254,000
I-5 at El Toro Rd (southbound off-ramp)	Share	0.38%	0.09%	0.21%	0.02%	0.18%	0.27%	0.77%	0.81%	0.18%	0.51%	0.27%	1.77%	0.21%	96.88%	100%
	Cost	\$8,430	\$2,078	\$4,512	\$416	\$3,859	\$5,996	\$16,859	\$17,809	\$3,859	\$11,220	\$5,877	\$38,765	\$4,512	\$2,127,434	\$2,196,000
I-5 at Jamboree Rd (northbound off-ramp)	Share	3.03%	0.04%	0.02%	0.06%	0.06%	0.70%	0.87%	0.47%	0.27%	0.96%	0.41%	2.11%	0.05%	93.95%	100%
	Cost	\$161,614	\$2,184	\$874	\$3,058	\$3,058	\$37,128	\$46,300	\$25,334	\$14,414	\$51,105	\$21,840	\$112,693	\$2,621	\$5,018,772	\$5,342,000
I-5 at Jamboree Rd (southbound off-ramp)	Share	0.00%	0.01%	0.08%	0.00%	0.01%	0.35%	0.45%	0.00%	0.00%	0.00%	0.00%	0.00%	0.21%	99.35%	100%
	Cost	\$0	\$318	\$2,866	\$0	\$318	\$12,419	\$15,922	\$0	\$0	\$0	\$0	\$0	\$7,324	\$3,526,754	\$3,550,000
I-5 at Jeffrey Rd (southbound on-ramp)	Share	0.36%	1.50%	0.01%	0.46%	0.45%	1.23%	3.65%	0.42%	0.24%	0.66%	0.56%	1.88%	1.27%	92.85%	100%
	Cost	\$636	\$2,640	\$12	\$816	\$792	\$2,160	\$6,421	\$732	\$420	\$1,164	\$984	\$3,301	\$2,232	\$163,410	\$176,000
I-5 at Sand Canyon Ave (northbound on-ramp)	Share	8.78%	0.05%	0.16%	0.02%	0.06%	0.16%	0.45%	2.42%	3.22%	6.68%	0.00%	12.32%	0.05%	78.39%	100%
	Cost	\$52,258	\$327	\$933	\$140	\$373	\$933	\$2,706	\$14,371	\$19,177	\$39,754	\$0	\$73,302	\$327	\$466,407	\$595,000
I-405 at Irvine Center Dr (southbound off-ramp)	Share	0.39%	0.13%	0.55%	0.02%	0.47%	0.64%	1.81%	1.30%	0.12%	0.64%	0.23%	1.80%	0.17%	95.83%	100%
	Cost	\$25,803	\$8,811	\$36,501	\$1,259	\$30,837	\$42,165	\$119,573	\$86,218	\$8,181	\$9,440	\$15,104	\$118,943	\$11,328	\$6,337,353	\$6,613,000
I-405 at Jeffrey Rd (northbound off-ramp)	Share	0.09%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.18%	0.10%	0.35%	0.43%	1.07%	0.00%	98.85%	100%
	Cost	\$5,185	\$0	\$0	\$0	\$0	\$0	\$0	\$10,694	\$6,157	\$20,740	\$25,276	\$62,867	\$0	\$5,823,948	\$5,892,000
I-405 at Sand Canyon Ave (northbound direct on-ramp)	Share	2.99%	0.00%	1.05%	0.00%	1.02%	1.44%	3.51%	2.34%	1.82%	2.49%	0.00%	6.65%	0.00%	86.85%	100%
	Cost	\$18,356	\$0	\$6,429	\$0	\$6,233	\$8,834	\$21,497	\$14,331	\$11,141	\$15,264	\$0	\$40,736	\$0	\$532,412	\$613,000
I-405 at Sand Canyon Ave (southbound off-ramp)	Share	1.94%	0.00%	1.58%	0.00%	0.78%	1.49%	3.85%	0.50%	0.45%	1.55%	0.00%	2.50%	0.00%	91.72%	100%
	Cost	\$104,630	\$0	\$85,366	\$0	\$41,928	\$80,456	\$207,750	\$27,196	\$24,174	\$83,478	\$0	\$134,848	\$0	\$4,955,772	\$5,403,000
SR-133 at Barranca Pkwy (southbound loop on-ramp)	Share	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.02%	0.02%	0.00%	99.98%	100%
	Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$61	\$61	\$0	\$363,939	\$364,000
Interchanges																
SR-241 at Jeffrey Rd	Share	2.26%	1.04%	1.41%	0.17%	1.54%	2.21%	6.36%	0.45%	0.35%	0.42%	0.14%	1.36%	2.37%	87.65%	100%
	Cost	\$447,264	\$204,748	\$278,298	\$33,793	\$305,133	\$436,331	\$1,258,303	\$89,453	\$68,580	\$83,489	\$26,836	\$268,358	\$468,136	\$17,337,939	\$19,780,000
Sub-Total Cost (Partially Funded)		\$1,817,504	\$648,415	\$1,054,378	\$107,831	\$1,239,761	\$1,464,268	\$4,514,654	\$727,257	\$447,798	\$931,782	\$443,485	\$2,550,321	\$1,702,372	\$131,667,004	\$142,251,855
NITM PROGRAM ADMINISTRATIVE COSTS AND CALTRANS CONTINGENCY FUND																
Share of Administrative Costs (b)		22.72%	2.76%	6.56%	0.42%	9.68%	7.16%	26.58%	33.05%	10.44%	4.18%	2.06%	49.73%	0.97%	0%	100.00%
NITM Program Establishment Cost (b)		\$62,757	\$7,614	\$18,117	\$1,168	\$26,737	\$19,769	\$73,403	\$91,266	\$28,833	\$11,534	\$5,703	\$137,335	\$2,683	\$0	\$276,179
NITM Program Administration Cost (b)		\$551,721	\$65,260	\$157,225	\$9,952	\$236,451	\$164,633	\$633,512	\$802,360	\$253,480	\$101,396	\$50,135	\$1,207,371	\$21,892	\$0	\$2,428,000
Share of Caltrans Contingency Fund (b)		27.56%	3.15%	5.80%	0.55%	13.41%	5.82%	28.73%	11.22%	2.07%	10.66%	9.37%	33.32%	10.38%	0%	100%

Table 4-2 (Cont.)

Modified Allocation of Costs For The List of NITM Improvements - 2012 Costs

Location	PA40	Irvine Northern Sphere Future Development Areas						Orange County Great Park Future Development Areas					PA1	Remainder (a)	Total
		PA5B	PA6	PA8A	PA9A	PA9B	Sub-Total	GP I	GP II	GP III	GP IV	Sub-Total			
Caltrans Contingency Fund (b)	\$94,637	\$15,769	\$28,981	\$2,743	\$67,059	\$29,091	\$143,643	\$55,596	\$22,856	\$67,866	\$42,377	\$188,694	\$51,917	\$0	\$811,228
Sub-Total Cost (Administrative and	\$847,970	\$88,452	\$204,091	\$13,827	\$330,405	\$212,451	\$849,216	\$974,080	\$192,459	\$151,425	\$112,560	\$1,430,693	\$76,300	\$0	\$3,204,179
TOTAL (LIST OF NITM IMPROVEMENTS, NITM PROGRAM ADMINISTRATIVE COSTS, AND CALTRANS CONTINGENCY FUND)															
Total Cost	\$40,664,109	\$4,919,327	\$11,698,175	\$755,043	\$17,293,441	\$12,754,740	\$47,419,968	\$58,878,085	\$18,485,370	\$7,468,877	\$3,730,692	\$88,563,193	\$1,778,672	\$131,667,004	\$310,129,722
Share of Total Cost	13.11%	1.59%	3.77%	0.24%	5.58%	4.11%	15.29%	18.98%	5.96%	2.41%	1.20%	28.56%	0.57%	42.46%	100.00%

(a) Traffic share percentage and allocated cost for existing traffic and future traffic due to future development in areas other than PA40, the Irvine Northern Sphere Area, the Orange County Great Park and PA1.

(b) Allocation of Administrative Costs held as part of PA 40 GPA/ZC Re-Allocation

(e) The cost estimate at this intersection includes a contribution to the City of Irvine Traffic Management Systems Operation Study (TMSOS).

(f) The cost estimate for the I-5 mainline improvements at this location includes the cost to add a second drop lane from I-5 to the southbound off-ramp at Sand Canyon Avenue.

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APPENDIX A

Land Use and Trip Generation in
NITM Program Future Development Areas

Appendix A
TAZ Correspondence

Area	NITM (Old ITAM) TAZ	ItamTaz	Property
III	321	321	HF
II	322	609	HF
II	322	924	
IV	323	323	HF
IV	324	324	HF
I	586	586	HF
I	586	595	
I	586	937	HF
I	586	938	HF
I	586	939	HF
I	586	940	HF
I	586	941	HF
I	586	943	HF
I	586	944	HF
I	586	945	HF
I	586	946	HF
I	586	947	HF
I	587	589	HF
I	587	597	HF
I	587	603	HF
I	588	587	HF
I	588	588	HF
I	588	596	HF
I	589	590	HF
I	589	930	
I	589	948	HF
I	589	949	HF
I	589	950	HF
I	589	951	HF
I	589	952	HF
II	590	592	HF
II	590	593	
II	590	957	HF
II	590	960	HF
II	590	961	HF
II	590	970	HF
II	590	971	HF
II	590	972	HF
II	590	973	HF
II	590	974	HF
II	590	975	HF
II	590	976	HF
II	590	982	HF
II	590	983	HF
II	590	984	HF
II	590	985	HF
II	590	987	HF
II	590	988	HF
II	591	591	

Area	NITM (Old ITAM) TAZ	ItamTaz	Property
I	593	602	HF
I	593	959	HF
I	593	962	
II	594	327	HF
II	594	328	HF
II	594	329	HF
II	594	330	HF
II	594	331	HF
II	594	332	HF
II	594	594	HF
II	594	986	HF
II	594	989	HF
II	594	997	HF
II	594	998	HF
II	594	999	HF
I	596	600	HF
I	596	601	HF
I	596	958	HF
I	596	963	HF
I	596	964	HF
I	596	965	HF
I	597	598	HF
I	597	953	HF
I	597	954	HF
I	597	955	HF
I	597	956	HF
III	598	599	
I	600	604	HF
I	600	605	HF
I	600	966	HF
I	600	967	HF
I	600	968	HF
I	600	969	HF
I	602	931	
I	602	993	
I	602	994	
I	602	995	
I	603	932	
I	603	933	
I	603	991	
I	603	992	
I	603	996	
III	609	934	
III	609	935	
III	609	936	
III	610	849	
III	610	927	
III	610	928	
III	610	929	
III	610	977	
III	610	978	
II	611	606	HF

Area	NITM (Old ITAM) TAZ	ItamTaz	Property
II	611	607	HF
II	611	942	
II	613	325	
II	613	326	
II	613	608	HF
II	614	614	
II	614	920	
III	615	610	HF
III	615	611	HF
III	615	926	
III	917	612	HF
III	917	925	
III	918	613	HF
III	919	322	HF
III	920	923	
IV	921	615	HF
IV	922	917	HF
IV	922	921	
IV	923	919	HF
IV	923	922	
IV	924	918	HF

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Appendix A

**Land Use and Trip Generation Estimates
by Future Development Area for NITM Fee Re-Allocation Modeling**

Area	Description	Units	PA 40 Study		With Project		ADT	
			LandUse	ADT	LandUse	ADT	Difference	% Difference
IA	Education	STU	7800	20,514	1656	4,355	-16,159	-78.8%
IA	ELEMENTARY/MIDDLE - ITAM	STU	0	0	1000	1,240	1,240	N/A
IA	Multi-Family	DU	0	0	438	3,132	3,132	N/A
IA	Park	ACRE	0	0	19.2	69	69	N/A
IA	Research & Development	TSF	42.5	443	48.7	507	64	14.4%
IA	Retail	TSF	150	8,262	150	8,208	-54	-0.7%
IA	Senior Housing	DU	263	1,344	182	930	-414	-30.8%
IA	Single Family Detached	DU	0	0	654	5,749	5,749	N/A
IA	TOTAL			30,563		24,190	-6,373	-20.9%
IB	Agriculture	ACRE	200	400	31.42	63	-337	-84.3%
IB	Child Care Center	TSF	0	0	11	461	461	N/A
IB	Church/Synagogue	TSF	0	0	25	204	204	N/A
IB	Education	STU	0	0	2505	6,588	6,588	N/A
IB	Medical Office	TSF	336.9	8,679	0	0	-8,679	-100.0%
IB	Multi-family	DU	0	0	925	6,614	6,614	N/A
IB	Open Space Park	ACRE	279.5	1,003	279.5	1,003	0	0.0%
IB	Park	ACRE	0	0	11.9	43	43	N/A
IB	Parking	SPACES	302	66	302	66	0	0.0%
IB	Research & Development	TSF	595.9	6,209	0	0	-6,209	-100.0%
IB	Senior Housing	DU	537	2,744	0	0	-2,744	-100.0%
IB	Single Family Detached	DU	0	0	753	6,619	6,619	N/A
IB	TOD Office	TSF	0	0	75	941	941	N/A
IB	Transitional Housing	DU	165	1,082	0	0	-1,082	-100.0%
IB	University Residential	DU	60	429	0	0	-429	-100.0%
IB	TOTAL			20,612		22,602	1,990	9.7%
IC	Museum	TSF	60.2	1,389	60.2	1,389	0	0.0%
IC	Parking	SPACES	1871	412	1871	412	0	0.0%
IC	Sports Park	ACRE	165	6,884	165	6,884	0	0.0%
IC	TOTAL			8,685		8,685		0.0%
I	Agriculture	ACRE	200	400	31.42	63	-337	-84.3%
I	Child Care Center	TSF	0	0	11	461	461	N/A
I	Church/Synagogue	TSF	0	0	25	204	204	N/A
I	Education	STU	7800	20,514	4161	10,943	-9,571	-46.7%
I	ELEMENTARY/MIDDLE - ITAM	STU	0	0	1000	1,240	1,240	N/A
I	Medical Office	TSF	336.9	8,679	0	0	-8,679	-100.0%
I	Multi-family	DU	0	0	1363	9,746	9,746	N/A
I	Museum	TSF	60.2	1,389	60.2	1,389	0	0.0%
I	Open Space Park	ACRE	279.5	1,003	279.5	1,003	0	0.0%
I	Park	ACRE	0	0	31.1	112	112	N/A
I	Parking	SPACES	2173	478	2173	478	0	0.0%
I	Research & Development	TSF	638.4	6,652	48.7	507	-6,145	-92.4%
I	Retail	TSF	150	8,262	150	8,208	-54	-0.7%
I	Senior Housing	DU	800	4,088	182	930	-3,158	-77.3%
I	Single Family Detached	DU	0	0	1407	12,368	12,368	N/A
I	Sports Park	ACRE	165	6,884	165	6,884	0	0.0%
I	TOD Office	TSF	0	0	75	941	941	N/A
I	Transitional Housing	DU	165	1,082	0	0	-1,082	-100.0%
I	University Residential	DU	60	429	0	0	-429	-100.0%
I	TOTAL			59,860		55,477	-4,383	-7.3%

Appendix A

**Land Use and Trip Generation Estimates
by Future Development Area for NITM Fee Re-Allocation Modeling**

Area	Description	Units	PA 40 Study		With Project		ADT	
			LandUse	ADT	LandUse	ADT	Difference	% Difference
II	Agriculture	ACRE	102.5	205	102.5	205	0	0.0%
II	Cemetary	ACRE	73	12	0	0	-12	-100.0%
II	Chapel/Mortuary	TSF	50	405	50	405	0	0.0%
II	Elementary School	STU	650	813	1000	1,240	427	52.5%
II	Exposition Center	TSF	708	16,829	708	16,829	0	0.0%
II	Golf Course	ACRE	366	1,358	150	923	-435	-32.0%
II	Multi-Family	DU	0	0	608	4,347	4,347	N/A
II	Open Space Park	ACRE	1106	3,971	1106	3,971	0	0.0%
II	Park	ACRE	0	0	16.5	59	59	N/A
II	Parking	SPACES	100	22	100	22	0	0.0%
II	Residential Golf Village	DU	1100	9,669	0	0	-9,669	-100.0%
II	Retail	TSF	0	0	150	8,208	8,208	N/A
II	Single Family Detached	DU	0	0	1334	11,726	11,726	N/A
II	Wildlife Corridor	ACRE	246	41	246	41	0	0.0%
II	TOTAL			33,325		47,976	14,651	44.0%
III	Cultural Institutional	TSF	300	6,924	300	6,924	0	0.0%
III	Education	STU	0	0	3580	9,415	9,415	N/A
III	Institutional Warehouse	TSF	263	1,657	263	1,657	0	0.0%
III	Museum	TSF	407.8	9,412	407.8	9,412	0	0.0%
III	OCTA Facility	TSF	176	1,183	176	1,183	0	0.0%
III	Open Space Park	ACRE	138.9	499	138.9	499	0	0.0%
III	Parking	SPACES	3232	711	3232	711	0	0.0%
III	Research & Development	TSF	0	0	951.3	9,913	9,913	N/A
III	TOD Office	TSF	75	940	0	0	-940	-100.0%
III	TOD Residential	DU	1500	10,710	0	0	-10,710	-100.0%
III	TOD Retail	TSF	75	4,105	0	0	-4,105	-100.0%
III	Transportation Center	SPACES	1050	2,626	1050	2,626	0	0.0%
III	Wildlife Corridor	ACRE	20.8	4	20.8	4	0	0.0%
III	TOTAL			38,771		42,344	3,573	9.2%
IV	Auto Center	TSF	102	4,355	102	4,355	0	0.0%
IV	Research & Development	TSF	1600	16,673	1600	16,673	0	0.0%
IV	Wildlife Corridor	ACRE	11.2	2	11.2	2	0	0.0%
IV	TOTAL			21,030		21,030	0	

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APPENDIX B

Intersection Lane Configuration Summary and
Intersection Capacity Utilization (ICU)
Worksheets

**TABLE B-1 (CONT.)
EXISTING AND FUTURE INTERSECTION LANE GEOMETRICS (LIST OF NITM IMPROVEMENT INTERSECTION LOCATIONS)**

Loc. #	Intersection (NS & EW)	Intersection Approach Lanes												ATMS	Source			
		Southbound			Westbound			Northbound			Eastbound							
		L	T	R	L	T	R	L	T	R	L	T	R					
223	Culver & I-5 SB ramps																	
	Existing Conditions	0	3	f	0	0	0	0	0	3	f	3	0	2				
	2015 Improvements																	
	2030 Improvements																	
	Buildout (Post-2030) Improvements																	
	Final Buildout Conditions	0	3	f	0	0	0	0	0	3	f	3	0	2				
224	Culver & Walnut																	
	Existing Conditions	2	3	1	2	2	d	2	3	1	>	2	2	0				Irvine CIP
	2015 Improvements						1							1				
	2030 Improvements																	
	Buildout (Post-2030) Improvements																	
	Final Buildout Conditions	2	3	1	2	2	1	2	3	1	>	2	2	1				NITM Program (fully funded)
228	Culver & Barranca																	
	Existing Conditions	2	3	f	2	2	d	2	3	1	1	2	2	1				
	2015 Improvements																	
	2030 Improvements																	
	Buildout (Post-2030) Improvements						3	0										Pending development
	Final Buildout Conditions	2	3	f	2	3	0	2	3	1	1	2	2	1				NITM Program (partially funded) (Balance Funded by PA1/9 GPA)
235	Culver & University																	
	Existing Conditions	1	3	0	2	3	0	1	3	d	d	2	3	0				Paid
	2015 Improvements																	
	2030 Improvements									4								UCI LRDP
	Buildout (Post-2030) Improvements	2	4	d				2			2			d				NITM Program (fully funded) UCI LRDP
	Final Buildout Conditions	2	4	d	2	3	0	2	4	2	>	2	3	d				
249	Yale & Irvine																	
	Existing Conditions	1	2	d	1	3	0	1	2	d	d	1	3	0				
	2015 Improvements																	
	2030 Improvements	2																NITM Program (fully funded)

**TABLE B-1 (CONT.)
EXISTING AND FUTURE INTERSECTION LANE GEOMETRICS (LIST OF NITM IMPROVEMENT INTERSECTION LOCATIONS)**

Loc. #	Intersection (NS & EW)	Intersection Approach Lanes												ATMS	Source		
		Southbound			Westbound			Northbound			Eastbound						
		L	T	R	L	T	R	L	T	R	L	T	R				
	2030 Improvements																
	Buildout (Post-2030) Improvements																
	Final Buildout Conditions	0	3	f	3	0	1	0	3	f	0	0	0	0			NITM Program (partially funded)
302	Sand Canyon & Trabuco																
	Existing Conditions	2	3	1	2	3	d	2	3	f	2	3	f				
	2015 Improvements																
	2030 Improvements																PA9C (2030 only)
	Buildout (Post-2030) Improvements																
	Final Buildout Conditions	2	3	1	2	3	d	2	3	f	2	3	f				
303	Sand Cyn & I-5 NB ramps/Marine																
	Existing Conditions	1	2	1	1	1	0	2	2	0	1.5	0.5	1				
	2015 Improvements																
	2030 Improvements																Irvine CIP / NITM Program Fully Funded
	Buildout (Post-2030) Improvements	2			2	1.5	1.5		4		2	1	1				O.C.Great Park / NITM Program Fully Funded
	Final Buildout Conditions	2	4	1	2	1.5	1.5	2	4	d	1.5	1.5	2				PA40/PA12 GPA/ZC
305	Sand Canyon & I-5 SB ramps																
	Existing Conditions	2	2	0	0	0	0	0	2	d	1.5	0	1.5				
	2015 Improvements																
	2030 Improvements																
	Buildout (Post-2030) Improvements																
	Final Buildout Conditions	2	4	0	0	0	0	0	4	1	2.5	0	1.5				
306	Sand Cyn & Oak Cyn/Laguna Cyn																
	Existing Conditions	1	2	1	2	1	1	1	3	1	2	1	d				
	2015 Improvements	2	3	d			1.5	1.5									
	2030 Improvements																
	Buildout (Post-2030) Improvements																
	Final Buildout Conditions	2	3	d	2	1	f	1	3	1	2	1	d				Irvine CIP/PA13/PA31 NITM Program (fully funded)
	2030 Improvements																
	Buildout (Post-2030) Improvements						1	f									
	Final Buildout Conditions	2	3	d	2	1	f	1	3	1	2	1	d				PA40/PA12 GPA/ZC

2015 Without NITM Improvements

34 . Red Hill Av. at Irvine Blvd.

ITAM 8.4-10 2015 2011App NoNitm (TUSTIN ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL V/C	PM PK HOUR VOL V/C		
NBL	2	3400	217 .06*	560 .16*		
NBT	1	1700	101 .06	200 .12		
NBR	1	1700	7 .00	22 .01		
SBL	2	3400	126 .04	79 .02		
SBT	2	3400	382 .11*	153 .05*		
SBR	d	1700	125 .07	85 .05		
EBL	1	1700	83 .05*	184 .11*		
EBT	3	5100	957 .25	1678 .40		
EBR	0	0	307	345		
WBL	1	1700	141 .08	79 .05		
WBT	3	5100	2248 .45*	2195 .44*		
WBR	0	0	36	71		
Clearance Interval			.05*	.05*		
TOTAL CAPACITY UTILIZATION			.72	.81		

91 . Tustin Ranch Rd. at Irvine Bl.

ITAM 8.4-10 2015 2011App NoNitm (TUSTIN ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL V/C	PM PK HOUR VOL V/C		
NBL	1	1700	218 .13*	420 .25*		
NBT	3	5100	372 .07	914 .18		
NBR	1	1700	181 .11	359 .21		
SBL	1	1700	202 .12	176 .10		
SBT	3	5100	1255 .25*	444 .09*		
SBR	f		646	272		
EBL	2	3400	158 .05*	441 .13*		
EBT	3	5100	688 .13	1266 .25		
EBR	1	1700	406 .24	177 .10		
WBL	2	3400	398 .12	129 .04		
WBT	3	5100	1736 .34*	1508 .30*		
WBR	1	1700	160 .09	375 .22		
Clearance Interval			.05*	.05*		
TOTAL CAPACITY UTILIZATION			.82	.82		

123 . Jamboree Rd. at Tustin Ranch Rd.

ITAM 8.4-10 2015 2011App NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL V/C	PM PK HOUR VOL V/C		
NBL	1	1700	181 .11*	65 .04		
NBT	2	3400	551 .16	1963 .58*		
NBR	1	1700	33 .02	5 .00		
SBL	1	1700	27 .02	3 .00		
SBT	2	3400	1970 .58*	657 .19		
SBR	1	1700	227 .13	105 .06		
EBL	2	3400	82 .02*	187 .06*		
EBT	1	1700	17 .01	3 .00		
EBR	1	1700	40 .02	33 .02		
WBL	1	1700	0 .00	0 .00		
WBT	1	1700	0 .00*	0 .00*		
WBR	1	1700	0 .00	0 .00		
Clearance Interval			.05*	.05*		
TOTAL CAPACITY UTILIZATION			.76	.69		

125 . Jamboree Rd. at Irvine Bl.

ITAM 8.4-10 2015 2011App NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL V/C	PM PK HOUR VOL V/C		
NBL	2	3400	219 .06*	452 .13		
NBT	3	5100	292 .06	1305 .26*		
NBR	1	1700	110 .06	416 .24		
SBL	2	3400	607 .18	192 .06*		
SBT	3	5100	1823 .36*	597 .12		
SBR	f		197	52		
EBL	2	3400	118 .03*	318 .09*		
EBT	3	5100	712 .14	1042 .20		
EBR	1	1700	233 .14	273 .16		
WBL	2	3400	434 .13	370 .11		
WBT	3	5100	1503 .29*	1195 .23*		
WBR	d	1700	200 .12	407 .24		
Clearance Interval			.05*	.05*		
TOTAL CAPACITY UTILIZATION			.79	.69		

224 . Culver Dr. at Walnut Av.

ITAM 8.4-10 2015 2011App NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	2	3400	169	.05*	305	.09
NBT	3	5100	797	.16	1493	.29*
NBR	1	1700	255	.15	312	.18
SBL	2	3400	244	.07	369	.11*
SBT	3	5100	1881	.37*	1361	.27
SBR	1	1700	484	.28	270	.16
EBL	2	3400	311	.09*	616	.18*
EBT	2	3400	451	.13	528	.16
EBR	1	1700	188	.11	135	.08
WBL	2	3400	430	.13	334	.10
WBT	2	3400	757	.22*	605	.18*
WBR	1	1700	302	.18	231	.14
Clearance Interval				.05*	.05*	
Note: Assumes Right-Turn Overlap for NBR						

TOTAL CAPACITY UTILIZATION .78 .81

228 . Culver Dr. at Barranca Pkwy.

ITAM 8.4-10 2015 2011App NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	2	3400	126	.04*	234	.07
NBT	3	5100	700	.14	1587	.31*
NBR	1	1700	327	.19	358	.21
SBL	2	3400	360	.11	291	.09*
SBT	3	5100	2015	.40*	1152	.23
SBR	f		304		198	
EBL	2	3400	426	.13*	328	.10*
EBT	2	3400	793	.23	701	.21
EBR	1	1700	175	.10	440	.26
WBL	2	3400	360	.11	248	.07
WBT	2	3400	810	.24*	637	.19*
WBR	d	1700	154	.09	314	.18
Clearance Interval				.05*	.05*	

TOTAL CAPACITY UTILIZATION .86 .74

235 . Culver Dr. at University Dr.

ITAM 8.4-10 2015 2011App NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	1	1700	8	.00	61	.04
NBT	3	5100	1500	.29	1584	.31*
NBR	d	1700	257	.15	874	.51
SBL	1	1700	20	.01	29	.02*
SBT	3	5100	1324	.32*	1139	.28
SBR	0	0	290		303	
EBL	2	3400	49	.01	313	.09
EBT	3	5100	384	.08*	847	.17*
EBR	0	0	16		20	
WBL	2	3400	534	.16*	572	.17*
WBT	3	5100	865	.17	496	.11
WBR	0	0	24		43	
Right Turn Adjustment					NBR	.07*
Clearance Interval				.05*		.05*

TOTAL CAPACITY UTILIZATION .61 .79

249 . Yale Av. at Irvine Bl.

ITAM 8.4-10 2015 2011App NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	1	1700	134	.08	221	.13
NBT	2	3400	229	.07*	278	.08*
NBR	d	1700	128	.08	121	.07
SBL	1	1700	335	.20*	241	.14*
SBT	2	3400	342	.10	147	.04
SBR	d	1700	335	.20	102	.06
EBL	1	1700	118	.07*	340	.20*
EBT	3	5100	847	.18	1278	.26
EBR	0	0	56		31	
WBL	1	1700	122	.07	112	.07
WBT	3	5100	1361	.27*	1467	.32*
WBR	0	0	32		143	
Clearance Interval				.05*		.05*

TOTAL CAPACITY UTILIZATION .66 .79

288 . Jeffrey Rd. at Walnut Av./I-5 SB Ramps 289 . Jeffrey Rd. at ICD

ITAM 8.4-10 2015 2011App NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	2	3400	142	.04*	262	.08
NBT	3	5100	801	.16	1759	.34*
NBR	1	1700	97	.06	163	.10
SBL	2	3400	501	.15	262	.08*
SBT	3	5100	1859	.43*	1026	.30
SBR	0	0	339		748	.44
EBL	2	3400	124	.04	275	.08
EBT	1	1700	292	.17*	185	.11*
EBR	1	1700	304	.18	280	.16
WBL	2	3400	286	.08*	524	.15*
WBT	1	1700	99	.06	110	.06
WBR	1	1700	235	.14	205	.12
Clearance Interval				.05*		.05*

TOTAL CAPACITY UTILIZATION .77 .73

ITAM 8.4-10 2015 2011App NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	2	3400	161	.05*	258	.08
NBT	3	5100	656	.13	1600	.31*
NBR	1	1700	243	.14	263	.15
SBL	2	3400	480	.14	286	.08*
SBT	3	5100	1831	.36*	1259	.25
SBR	1	1700	519	.31	222	.13
EBL	2	3400	149	.04	311	.09*
EBT	3	5100	947	.19*	722	.14
EBR	f		244		206	
WBL	2	3400	225	.07*	237	.07
WBT	3	5100	679	.13	1242	.24*
WBR	1	1700	195	.11	552	.32
Right Turn Adjustment					WBR	.02*
Clearance Interval				.05*		.05*

TOTAL CAPACITY UTILIZATION .72 .79

290 . Jeffrey Rd. at Barranca Pkwy.

ITAM 8.4-10 2015 2011App NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	2	3400	186	.05*	284	.08*
NBT	3	5100	833	.19	1581	.33
NBR	0	0	137		118	
SBL	2	3400	117	.03	103	.03
SBT	3	5100	1970	.47*	1270	.30*
SBR	0	0	418		255	
EBL	2	3400	204	.06*	447	.13*
EBT	2	3400	625	.18	810	.24
EBR	d	1700	246	.14	255	.15
WBL	2	3400	174	.05	165	.05
WBT	2	3400	696	.20*	561	.17*
WBR	1	1700	113	.07	93	.05
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.83		.73

291 . Jeffrey Rd. at Alton Pkwy.

ITAM 8.4-10 2015 2011App NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	2	3400	419	.12*	528	.16
NBT	3	5100	788	.15	1431	.28*
NBR	f		185		276	
SBL	2	3400	352	.10	493	.15*
SBT	3	5100	1942	.42*	1138	.26
SBR	0	0	200		181	
EBL	2	3400	185	.05	333	.10
EBT	2	3400	544	.16*	992	.29*
EBR	d	1700	573	.34	367	.22
WBL	2	3400	575	.17*	425	.13*
WBT	2	3400	681	.20	751	.22
WBR	d	1700	86	.05	156	.09
Right Turn Adjustment			EBR	.09*		
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION					1.01	.90

293 . Jeffrey Rd. at I-405 NB Ramps

ITAM 8.4-10 2015 2011App NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	0	0	0		0	
NBT	3	5100	1281	.25	2142	.42*
NBR	f		300		80	
SBL	0	0	0		0	
SBT	3	5100	2118	.42*	1424	.28
SBR	f		1292		550	
EBL	0	0	0		0	
EBT	0	0	0		0	
EBR	0	0	0		0	
WBL	2	3400	827	.24*	1176	.35*
WBT	0	0	0		0	
WBR	1	1700	201	.12	398	.23
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.71		.82

303 . Sand Canyon. Av. at I-5 NB Ramps

ITAM 8.4-10 2015 2011App NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	2	3400	140	.04*	807	.24
NBT	3	5100	907	.18	2883	.57*
NBR	d	1700	7	.00	56	.03
SBL	1	1700	6	.00	13	.01*
SBT	3	5100	3320	.65*	1396	.27
SBR	1	1700	337	.20	295	.17
EBL	1.5		307	{.09}*}	512	{.15}*}
EBT	0.5	3400	7	.09	11	.15
EBR	2	3400	509	.15	318	.09
WBL	1	1700	8	.00	7	.00
WBT	1	1700	4	.01*	8	.01*
WBR	0	0	8		5	
Right Turn Adjustment Clearance Interval			EBR	.02*		.05*

TOTAL CAPACITY UTILIZATION .86 .79

305 . Sand Canyon. Av. at I-5 SB Ramps

ITAM 8.4-10 2015 2011App NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	0	0	0		0	
NBT	3	5100	796	.16	3266	.64*
NBR	d	1700	168	.10	358	.21
SBL	2	3400	879	.26	614	.18*
SBT	3	5100	2957	.58*	1282	.25
SBR	0	0	0		0	
EBL	2.5		374	.11*	500	.10*
EBT	0	6800	3		0	
EBR	1.5		1053	.31	270	{.00}
WBL	0	0	0		0	
WBT	0	0	0		0	
WBR	0	0	0		0	
Right Turn Adjustment Clearance Interval			EBR	.20*		.05*

TOTAL CAPACITY UTILIZATION .94 .97

306 . Sand Canyon. Av. at Oak Cyn./Laguna Cyn. R

ITAM 8.4-10 2015 2011App NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	1	1700	70	.04	165	.10
NBT	3	5100	551	.11*	1650	.32*
NBR	1	1700	147	.09	131	.08
SBL	2	3400	1392	.41*	459	.14*
SBT	3	5100	1761	.35	899	.18
SBR	d	1700	234	.14	128	.08
EBL	2	3400	80	.02*	211	.06
EBT	1	1700	133	.08	160	.09*
EBR	d	1700	106	.06	60	.04
WBL	2	3400	77	.02	171	.05*
WBT	1	1700	156	.09*	58	.03
WBR	1	1700	281	.17	1279	.75
Right Turn Adjustment Clearance Interval					WBR	.56*
				.05*		.05*

TOTAL CAPACITY UTILIZATION .68 1.21

310 . Sand Canyon. Av. at Alton Pkwy.

ITAM 8.4-10 2015 2011App NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	2	3400	188	.06	220	.06*
NBT	3	5100	1081	.21*	733	.14
NBR	1	1700	674	.40	158	.09
SBL	2	3400	301	.09*	79	.02
SBT	3	5100	903	.18	1119	.22*
SBR	1	1700	134	.08	221	.13
EBL	2	3400	164	.05*	149	.04
EBT	3	5100	555	.11	733	.14*
EBR	1	1700	261	.15	289	.17
WBL	2	3400	296	.09	702	.21*
WBT	2	3400	688	.20*	769	.23
WBR	1	1700	105	.06	228	.13
Right Turn Adjustment Clearance Interval			NBR	.08*		.05*

TOTAL CAPACITY UTILIZATION .68 .68

311 . Sand Canyon. Av. at I-405 NB Ramps

ITAM 8.4-10 2015 2011App NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL V/C	PM PK HOUR VOL V/C		
NBL	0	0	0	0		
NBT	2	3400	1547 .46*	836 .25		
NBR	f		620	360		
SBL	0	0	0	0		
SBT	2	3400	397 .12	994 .29*		
SBR	f		1200	1100		
EBL	0	0	0	0		
EBT	0	0	0	0		
EBR	0	0	0	0		
WBL	0.5		53	186		
WBT	0	3400	0 .14*	0 {.13}*		
WBR	1.5		423	294		
Clearance Interval				.05*	.05*	
TOTAL CAPACITY UTILIZATION				.65	.47	

327 . Barranca Pkwy. at Technology

ITAM 8.4-10 2015 2011App NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL V/C	PM PK HOUR VOL V/C		
NBL	2	3400	654 .19*	97 .03		
NBT	2	3400	798 .23	728 .21*		
NBR	1	1700	271 .16	167 .10		
SBL	1	1700	73 .04	298 .18*		
SBT	2	3400	753 .22*	1041 .31		
SBR	1	1700	349 .21	89 .05		
EBL	2	3400	70 .02*	294 .09		
EBT	2	3400	165 .05	305 .09*		
EBR	d	1700	134 .08	461 .27		
WBL	2	3400	38 .01	278 .08*		
WBT	2	3400	360 .11*	134 .04		
WBR	d	1700	122 .07	158 .09		
Right Turn Adjustment					EBR	.12*
Clearance Interval				.05*	.05*	
TOTAL CAPACITY UTILIZATION				.59	.73	

338 . Alton Pkwy. at Irvine Bl.

ITAM 8.4-10 2015 2011App NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL V/C	PM PK HOUR VOL V/C		
NBL	2	3400	201 .06*	653 .19*		
NBT	3	5100	380 .07	1154 .23		
NBR	f		90	163		
SBL	2	3400	257 .08	161 .05		
SBT	3	5100	1477 .29*	499 .10*		
SBR	f		580	650		
EBL	2	3400	502 .15*	614 .18*		
EBT	3	5100	1113 .22	796 .16		
EBR	1	1700	708 .42	270 .16		
WBL	2	3400	255 .08	121 .04		
WBT	3	5100	890 .17*	1427 .28*		
WBR	1	1700	178 .10	272 .16		
Right Turn Adjustment			EBR	.13*		
Clearance Interval				.05*	.05*	
TOTAL CAPACITY UTILIZATION				.85	.80	

344 . Alton Pkwy. at Technology Dr. W.

ITAM 8.4-10 2015 2011App NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	2	3400	567	.17*	490	.14*
NBT	3	5100	1624	.32	1167	.23
NBR	1	1700	802	.47	185	.11
SBL	1	1700	61	.04	27	.02
SBT	4	6800	1507	.22*	1660	.24*
SBR	1	1700	104	.06	131	.08
EBL	1	1700	74	.04*	268	.16
EBT	2	3400	57	.02	58	.02*
EBR	2	3400	162	.05	849	.25
WBL	2	3400	101	.03	971	.29*
WBT	2	3400	49	.01*	89	.03
WBR	d	1700	11	.01	25	.01
Right Turn Adjustment			NBR	.10*	EBR	.09*
Clearance Interval				.05*		.05*
Note: Assumes Right-Turn Overlap for EBR						

TOTAL CAPACITY UTILIZATION .59 .83

345 . Alton Pkwy. at I-5 NB Ramps

ITAM 8.4-10 2015 2011App NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	0	0	0		0	
NBT	3	5100	2216	.43*	1615	.32
NBR	f		90		550	
SBL	0	0	0		0	
SBT	3	5100	1403	.28	1725	.34*
SBR	f		350		1120	
EBL	0	0	0		0	
EBT	0	0	0		0	
EBR	0	0	0		0	
WBL	1.5		587		165	
WBT	0	5100	0	.23*	0	.06*
WBR	1.5		594		145	
Clearance Interval				.05*		.05*

TOTAL CAPACITY UTILIZATION .71 .45

348 . Alton Pkwy. at ICD

ITAM 8.4-10 2015 2011App NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	2	3400	38	.01*	40	.01
NBT	3	5100	420	.08	793	.16*
NBR	1	1700	132	.08	356	.21
SBL	2	3400	239	.07	723	.21*
SBT	3	5100	965	.19*	675	.13
SBR	1	1700	306	.18	91	.05
EBL	2	3400	161	.05*	354	.10*
EBT	3	5100	449	.09	1011	.20
EBR	1	1700	10	.01	33	.02
WBL	2	3400	415	.12	262	.08
WBT	3	5100	946	.19*	938	.18*
WBR	1	1700	719	.42	362	.21
Right Turn Adjustment			WBR	.14*		
Clearance Interval				.05*		.05*

TOTAL CAPACITY UTILIZATION .63 .70

358 . ICD at Enterprise Dr.

ITAM 8.4-10 2015 2011App NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	0	0	0		0	
NBT	2	3400	2535	.75*	1675	.49*
NBR	f		636		1163	
SBL	1	1700	52	.03*	77	.05*
SBT	3	5100	856	.17	1761	.35
SBR	f		0		0	
EBL	0	0	0		0	
EBT	0	0	0		0	
EBR	0	0	0		0	
WBL	1	1700	13	.01*	239	.14*
WBT	0	0	0		0	
WBR	f		386		495	
Clearance Interval				.05*		.05*

TOTAL CAPACITY UTILIZATION .84 .73

359 . ICD at I-405 SB Ramps

ITAM 8.4-10 2015 2011App NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL V/C	PM PK HOUR VOL V/C		
NBL	0	0	0	0		
NBT	3	5100	2243 .44*	2151 .42		
NBR	f		100	90		
SBL	0	0	0	0		
SBT	2	3400	705 .21	1617 .48*		
SBR	f		160	300		
EBL	2	3400	967 .28*	699 .21*		
EBT	0	0	0	0		
EBR	f		1045	853		
WBL	0	0	0	0		
WBT	0	0	0	0		
WBR	0	0	0	0		
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION			.77	.74		

362 . Bake Pkwy. at Irvine Bl.

ITAM 8.4-10 2015 2011App NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL V/C	PM PK HOUR VOL V/C		
NBL	1	1700	307 .18	158 .09		
NBT	3	5100	1859 .40*	1321 .39*		
NBR	0	0	183	772		.45
SBL	2	3400	44 .01*	206 .06*		
SBT	3	5100	1123 .22	1334 .26		
SBR	1	1700	352 .21	880 .52		
EBL	2	3400	662 .19*	541 .16		
EBT	3	5100	303 .06	849 .17*		
EBR	1	1700	186 .11	305 .18		
WBL	2	3400	761 .22	443 .13*		
WBT	3	5100	761 .15*	513 .10		
WBR	1	1700	69 .04	88 .05		
Right Turn Adjustment					SBR	.01*
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION			.80	.81		

364 . Bake Pkwy. at Jeronimo Rd.

ITAM 8.4-10 2015 2011App NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL V/C	PM PK HOUR VOL V/C		
NBL	1	1700	446 .26*	38 .02		
NBT	3	5100	2424 .48	2458 .48*		
NBR	d	1700	79 .05	433 .25		
SBL	1	1700	60 .04	31 .02*		
SBT	3	5100	2312 .45*	2336 .46		
SBR	d	1700	125 .07	16 .01		
EBL	2	3400	10 .00	75 .02		
EBT	2	3400	21 .01*	199 .06*		
EBR	1	1700	49 .03	196 .12		
WBL	1	1700	345 .20*	107 .06*		
WBT	2	3400	486 .16	68 .04		
WBR	0	0	60	85 .05		
Right Turn Adjustment					EBR	.03*
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION			.97	.70		

368 . Bake Pkwy. at I-5 SB Ramps

ITAM 8.4-10 2015 2011App NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL V/C	PM PK HOUR VOL V/C		
NBL	0	0	0	0		
NBT	3	5100	817 .16*	1911 .37*		
NBR	0	0	0	0		
SBL	0	0	0	0		
SBT	3	5100	728 .14	607 .12		
SBR	f		290	610		
EBL	3	5100	2733 .54*	2319 .45*		
EBT	0	0	0	0		
EBR	1	1700	562 .33	223 .13		
WBL	0	0	0	0		
WBT	0	0	0	0		
WBR	0	0	0	0		
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION			.75	.87		

383 . Lake Forest Dr. at Avenida Carlota/I-5 SB

ITAM 8.4-10 2015 2011App NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL V/C	PM PK HOUR VOL V/C		
NBL	0	0	0	0		
NBT	4	6800	847 .14*	1338 .22*		
NBR	0	0	74	137		
SBL	2	3400	351 .10*	330 .10*		
SBT	3	5100	1089 .21	666 .13		
SBR	f		400	542		
EBL	2.5		690	1549		
EBT	1.5	6800	475 .17*	606 .32*		
EBR	1	1700	832 .49	432 .25		
WBL	1	1700	199 .12*	236 .14*		
WBT	0	0	0	0		
WBR	2	3400	232 .07	544 .16		
Right Turn Adjustment			EBR .30*			
Clearance Interval				.05*		.05*
Note: Assumes E/W Split Phasing						
Note: Assumes Right-Turn Overlap for WBR						
TOTAL CAPACITY UTILIZATION			.88	.83		

390 . Paseo de Valencia at Avenida Carlota

ITAM 8.4-10 2015 2011App NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL V/C	PM PK HOUR VOL V/C		
NBL	2	3400	276 .08*	177 .05		
NBT	1	1700	31 .02	134 .08*		
NBR	1	1700	28 .02	201 .12		
SBL	2	3400	769 .23*	863 .25*		
SBT	2	3400	671 .21	457 .15		
SBR	0	0	58	43		
EBL	2	3400	154 .05*	367 .11		
EBT	2	3400	183 .05	727 .21*		
EBR	1	1700	124 .07	611 .36		
WBL	1	1700	15 .01	32 .02*		
WBT	2	3400	496 .15*	340 .10		
WBR	1	1700	374 .22	440 .26		
Right Turn Adjustment					Multi	.11*
Clearance Interval				.05*		.05*
Note: Assumes N/S Split Phasing						
TOTAL CAPACITY UTILIZATION			.56	.72		

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378 . Lake Forest Dr. at Jeronimo Rd.

ITAM 8.4-10 2015 NoNitm (LAKE FOREST ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	1	1700	101	.06*	73	.04
NBT	3	5100	811	.16	1657	.32*
NBR	1	1700	99	.06	209	.12
SBL	1	1700	228	.13	119	.07*
SBT	3	5100	1440	.28*	1067	.21
SBR	1	1700	192	.11	193	.11
EBL	1	1700	82	.05	170	.10
EBT	2	3400	325	.13*	649	.21*
EBR	0	0	123		60	
WBL	1	1700	306	.18*	158	.09*
WBT	2	3400	587	.25	273	.11
WBR	0	0	247		89	
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.70		.74

379 . Lake Forest Dr. at Muirlands Bl.

ITAM 8.4-10 2015 NoNitm (LAKE FOREST ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	2	3400	40	.01*	69	.02
NBT	3	5100	699	.14	1537	.30*
NBR	1	1700	100	.06	271	.16
SBL	2	3400	80	.02	152	.04*
SBT	3	5100	1738	.34*	1036	.20
SBR	1	1700	192	.11	90	.05
EBL	2	3400	70	.02*	361	.11
EBT	2	3400	250	.07	1168	.34*
EBR	1	1700	40	.02	179	.11
WBL	2	3400	281	.08	395	.12*
WBT	2	3400	779	.23*	231	.07
WBR	1	1700	130	.08	83	.05
Clearance Interval				.05*		.05*
Note: Assumes Right-Turn Overlap for EBR						
TOTAL CAPACITY UTILIZATION				.65		.85

380 . Lake Forest Dr. at Rockfield Bl.

ITAM 8.4-10 2015 NoNitm (LAKE FOREST ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	2	3400	575	.17*	592	.17
NBT	3	5100	1068	.21	1738	.34*
NBR	1	1700	187	.11	481	.28
SBL	2	3400	130	.04	132	.04*
SBT	4	6800	1897	.29*	1198	.20
SBR	0	0	92		129	
EBL	2	3400	73	.02*	190	.06
EBT	2	3400	143	.04	676	.20*
EBR	2	3400	205	.06	283	.08
WBL	2	3400	428	.13	439	.13*
WBT	2	3400	563	.17*	209	.06
WBR	1	1700	100	.06	172	.10
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.70		.76

387 . Ridge Route Dr. at Rockfield Bl.

ITAM 8.4-10 2015 NoNitm (LAKE FOREST ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	0.5		70		30	
NBT	1.5	3400	40	.04*	20	.02*
NBR	0		40		10	
SBL	0.5		151	.09*	131	.08*
SBT	1.5	3400	10	.01	20	.01
SBR	d	1700	309	.18	150	.09
EBL	1	1700	91	.05*	396	.23
EBT	2	3400	190	.06	1270	.39*
EBR	0	0	10		60	
WBL	1	1700	10	.01	20	.01*
WBT	2	3400	501	.17*	419	.16
WBR	0	0	79		133	
Right Turn Adjustment			SBR	.05*		
Clearance Interval				.05*		.05*
Note: Assumes N/S Split Phasing						
TOTAL CAPACITY UTILIZATION				.45		.55

396 . El Toro Rd. at Avenida Carlota

ITAM 8.4-10 2015 2011App NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	0	0	0		0	
NBT	4	6800	990	.15*	1468	.22*
NBR	d	1700	23	.01	48	.03
SBL	2	3400	103	.03*	326	.10*
SBT	3	5100	716	.14	777	.15
SBR	1	1700	622	.37	609	.36
EBL	1.5		637	.19*	667	
EBT	1.5	5100	234	.14	816	.29*
EBR	1	1700	176	.10	189	.11
WBL	1	1700	38	.02	43	.03
WBT	1	1700	168	.10*	111	.07*
WBR	1	1700	362	.21	535	.31
Right Turn Adjustment			WBR	.08*	WBR	.14*
Clearance Interval				.05*		.05*
Note: Assumes E/W Split Phasing						
Note: Assumes Right-Turn Overlap for SBR WBR						
TOTAL CAPACITY UTILIZATION			.60		.87	

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420 . El Toro Rd. at Jeronimo Rd.

ITAM 8.4-10 2015 NoNitm (LAKE FOREST ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	1	1700	78	.05	70	.04
NBT	3	5100	1372	.27*	1770	.35*
NBR	1	1700	220	.13	140	.08
SBL	1	1700	281	.17*	170	.10*
SBT	3	5100	1742	.34	941	.18
SBR	d	1700	168	.10	330	.19
EBL	1	1700	119	.07*	240	.14*
EBT	2	3400	370	.13	450	.18
EBR	0	0	71		150	
WBL	2	3400	274	.08	219	.06
WBT	2	3400	646	.19*	490	.14*
WBR	1	1700	82	.05	370	.22
Clearance Interval				.05*	.05*	
Note: Assumes Right-Turn Overlap for NBR						

TOTAL CAPACITY UTILIZATION .75 .78

424 . Los Alisos Bl. at Rockfield Bl./Fordview St.

ITAM 8.4-10 2015 2011App (LAKE FOREST ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	HOUR V/C	PM PK HOUR VOL	HOUR V/C
NBL	1	1700	214	.13*	306	.18*
NBT	2	3400	859	.26	1445	.43
NBR	0	0	10		10	
SBL	1	1700	10	.01	20	.01
SBT	2	3400	1003	.47*	925	.34*
SBR	0	0	586		244	
EBL	1.5		231		595	
EBT	0.5	3400	90	.09*	40	.19*
EBR	1	1700	247	.15	295	.17
WBL	0	0	20		20	
WBT	1	1700	100	.07*	70	.05*
WBR	d	1700	50	.03	20	.01
Clearance Interval				.05*		.05*
Note: Assumes E/W Split Phasing						

TOTAL CAPACITY UTILIZATION .81 .81

558 . 0 St. at Irvine Bl.

ITAM 8.4-10 2015 2011App NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	2	3400	161	.05*	247	.07*
NBT	2	3400	38	.01	196	.06
NBR	d	1700	43	.03	59	.03
SBL	1	1700	149	.09	63	.04
SBT	1	1700	308	.18*	100	.06*
SBR	2	3400	538	.16	259	.08
EBL	1	1700	118	.07*	422	.25*
EBT	3	5100	1372	.27	1178	.23
EBR	1	1700	323	.19	217	.13
WBL	2	3400	80	.02	73	.02
WBT	2	3400	1245	.37*	1715	.50*
WBR	1	1700	35	.02	152	.09
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.72		.93

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2015 With Existing (Built/Under Construction) NITM Improvements

222 . Culver Dr. at Trabuco Rd.

ITAM 8.4-10 2015 BuiltNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	0	0	0		0	
NBT	3	5100	721	.14*	1888	.37*
NBR	f		1033		1474	
SBL	1	1700	553	.33*	343	.20*
SBT	3	5100	2381	.47	1226	.24
SBR	f		722		179	
EBL	0	0	0		0	
EBT	0	0	0		0	
EBR	0	0	0		0	
WBL	2	3400	626	.18*	487	.14*
WBT	0	0	0		0	
WBR	2	3400	806	.24	842	.25
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.70		.76

223 . Culver Dr. at I-5 SB Ramps

ITAM 8.4-10 2015 BuiltNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	0	0	0		0	
NBT	3	5100	1214	.24	1815	.36*
NBR	f		240		300	
SBL	0	0	0		0	
SBT	3	5100	2040	.40*	1403	.28
SBR	f		390		280	
EBL	3	5100	646	.13*	1255	.25*
EBT	0	0	0		0	
EBR	2	3400	490	.14	887	.26
WBL	0	0	0		0	
WBT	0	0	0		0	
WBR	0	0	0		0	
Right Turn Adjustment			EBR	.01*		
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.59		.66

302 . Sand Canyon. Av. at Trabuco Pkwy.

ITAM 8.4-10 2015 BuiltNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	256	.08*	537	.16
NBT	3	5100	518	.10	2093	.41*
NBR	f		216		485	
SBL	2	3400	164	.05	224	.07*
SBT	3	5100	2182	.43*	829	.16
SBR	1	1700	62	.04	71	.04
EBL	2	3400	67	.02	108	.03
EBT	3	5100	130	.03*	333	.07*
EBR	f		453		249	
WBL	2	3400	504	.15*	404	.12*
WBT	3	5100	591	.12	194	.04
WBR	d	1700	215	.13	223	.13
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.74		.72

321 . Laguna Canyon Rd. at Old Laguna Cyn. Rd.

ITAM 8.4-10 2015 BuiltNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	202	.06	36	.01*
NBT	3	5100	2447	.48*	1725	.34
NBR	1	1700	12	.01	36	.02
SBL	2	3400	41	.01*	119	.04
SBT	3	5100	1400	.27	2326	.46*
SBR	1	1700	511	.30	413	.24
EBL	3	5100	257	.05*	426	.08*
EBT	1	1700	16	.01	105	.06
EBR	f		23		191	
WBL	1	1700	37	.02	22	.01
WBT	2	3400	147	.04*	41	.01*
WBR	d	1700	135	.08	79	.05
Right Turn Adjustment			WBR	.03*		
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.66		.61

422 . Los Alisos Bl. at Jeromino Rd.

ITAM 8.4-10 2015 BuiltNitm (LAKE FOREST ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	1	1700	158	.09*	189	.11
NBT	3	5100	677	.13	1484	.29*
NBR	1	1700	237	.14	347	.20
SBL	1	1700	300	.18	261	.15*
SBT	3	5100	1359	.27*	970	.19
SBR	1	1700	434	.26	130	.08
EBL	2	3400	161	.05*	370	.11
EBT	2	3400	601	.18	790	.23*
EBR	1	1700	191	.11	208	.12
WBL	2	3400	326	.10	270	.08*
WBT	2	3400	835	.25*	400	.12
WBR	1	1700	230	.14	261	.15
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.71	.80	

423 . Muirlands Bl. at Los Alisos Bl.

ITAM 8.4-10 2015 BuiltNitm (LAKE FOREST ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	1	1700	209	.12	120	.07
NBT	2	3400	994	.29*	480	.14*
NBR	1	1700	157	.09	320	.19
SBL	1	1700	216	.13*	422	.25*
SBT	2	3400	475	.17	700	.26
SBR	0	0	119		198	
EBL	1	1700	262	.15*	188	.11
EBT	3	5100	695	.14	1655	.32*
EBR	1	1700	92	.05	217	.13
WBL	1	1700	331	.19	280	.16*
WBT	3	5100	1328	.26*	840	.16
WBR	1	1700	211	.12	299	.18
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.88	.92	

2015 With Committed Improvements

406 . Laguna Canyon Rd. at Lake Forest Dr.

ITAM 8.4-10 2015 CommNITM (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	0	0	0		0	
NBT	3	5100	2000	.39*	1358	.27
NBR	1	1700	11	.01	39	.02
SBL	3	5100	9	.00	51	.01
SBT	3	5100	1298	.25	1801	.35*
SBR	0	0	0		0	
EBL	0	0	0		0	
EBT	0	0	0		0	
EBR	0	0	0		0	
WBL	2	3400	52	.02*	25	.01*
WBT	0	0	0		0	
WBR	f		60		24	
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.46		.41

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2015 With NITM Improvements

291 . Jeffrey Rd. at Alton Pkwy.

ITAM 8.4-10 2015 FullNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	419	.12*	528	.16
NBT	3	5100	788	.15	1431	.28*
NBR	f		185		276	
SBL	2	3400	352	.10	493	.15*
SBT	3	5100	1942	.38*	1138	.22
SBR	d	1700	200	.12	181	.11
EBL	2	3400	185	.05	333	.10
EBT	2	3400	544	.16*	992	.29*
EBR	d	1700	573	.34	367	.22
WBL	2	3400	575	.17*	425	.13*
WBT	2	3400	681	.20	751	.22
WBR	d	1700	86	.05	156	.09
Right Turn Adjustment			EBR	.09*		
Clearance Interval				.05*		.05*

TOTAL CAPACITY UTILIZATION .97 .90

305 . Sand Canyon. Av. at I-5 SB Ramps

ITAM 8.4-10 2015 FullNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	0	0	0		0	
NBT	4	6800	796	.12	3266	.48*
NBR	d	1700	168	.10	358	.21
SBL	2	3400	879	.26	614	.18*
SBT	4	6800	2957	.43*	1282	.19
SBR	0	0	0		0	
EBL	2.5		374	.11*	500	.10*
EBT	0	6800	3		0	
EBR	1.5		1053	.31	270	{.00}
WBL	0	0	0		0	
WBT	0	0	0		0	
WBR	0	0	0		0	
Right Turn Adjustment			EBR	.20*		
Clearance Interval				.05*		.05*

TOTAL CAPACITY UTILIZATION .79 .81

306 . Sand Canyon. Av. at Oak Cyn./Laguna Cyn. R

ITAM 8.4-10 2015 FullNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	1	1700	70	.04	165	.10
NBT	3	5100	551	.11*	1650	.32*
NBR	1	1700	147	.09	131	.08
SBL	2	3400	1392	.41*	459	.14*
SBT	3	5100	1761	.35	899	.18
SBR	d	1700	234	.14	128	.08
EBL	2	3400	80	.02	211	.06
EBT	1	1700	133	.08*	160	.09*
EBR	d	1700	106	.06	60	.04
WBL	2	3400	77	.02*	171	.05*
WBT	1.5	5100	156	{.05}	58	.03
WBR	1.5		281		1279	.38
Right Turn Adjustment					WBR	.19*
Clearance Interval				.05*		.05*

TOTAL CAPACITY UTILIZATION .67 .84

364 . Bake Pkwy. at Jeronimo Rd.

ITAM 8.4-10 2015 PartNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	446	.13*	38	.01
NBT	3	5100	2424	.48	2458	.48*
NBR	d	1700	79	.05	433	.25
SBL	1	1700	60	.04	31	.02*
SBT	3	5100	2312	.45*	2336	.46
SBR	d	1700	125	.07	16	.01
EBL	2	3400	10	.00	75	.02
EBT	2	3400	21	.01*	199	.06*
EBR	1	1700	49	.03	196	.12
WBL	1	1700	345	.20*	107	.06*
WBT	2	3400	486	.16	68	.04
WBR	0	0	60		85	.05
Right Turn Adjustment					EBR	.03*
Clearance Interval				.05*		.05*

TOTAL CAPACITY UTILIZATION .84 .70

423 . Muirlands Bl. at Los Alisos Bl.

ITAM 8.4-10 2015 FullNitm (LAKE FOREST ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	209	.06	120	.04*
NBT	2	3400	994	.29*	480	.14
NBR	1	1700	157	.09	320	.19
SBL	2	3400	216	.06*	422	.12
SBT	2	3400	475	.17	700	.26*
SBR	0	0	119		198	
EBL	2	3400	262	.08*	188	.06
EBT	3	5100	695	.14	1655	.32*
EBR	1	1700	92	.05	217	.13
WBL	2	3400	331	.10	280	.08*
WBT	3	5100	1328	.26*	840	.16
WBR	d	1700	211	.12	299	.18
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.74		.75

558 . 0 St. at Irvine Bl.

ITAM 8.4-10 2015 FullNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	161	.05*	247	.07*
NBT	2	3400	38	.01	196	.06
NBR	d	1700	43	.03	59	.03
SBL	1	1700	149	.09	63	.04
SBT	1	1700	308	.18*	100	.06*
SBR	2	3400	538	.16	259	.08
EBL	2	3400	118	.03*	422	.12*
EBT	3	5100	1372	.27	1178	.23
EBR	1	1700	323	.19	217	.13
WBL	2	3400	80	.02	73	.02
WBT	2	3400	1245	.37*	1715	.50*
WBR	1	1700	35	.02	152	.09
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.68		.80

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2030 Without NITM Improvements

34 . Red Hill Av. at Irvine Blvd.

ITAM 8.4-10 2030 NoNitm (TUSTIN ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	2	3400	267	.08*	583	.17*
NBT	1	1700	101	.06	181	.11
NBR	1	1700	8	.00	20	.01
SBL	2	3400	138	.04	98	.03
SBT	2	3400	357	.11*	167	.05*
SBR	d	1700	146	.09	121	.07
EBL	1	1700	95	.06*	204	.12*
EBT	3	5100	1275	.32	1890	.44
EBR	0	0	352		340	
WBL	1	1700	131	.08	72	.04
WBT	3	5100	2587	.51*	2573	.52*
WBR	0	0	34		72	
Clearance Interval				.05*	.05*	
TOTAL CAPACITY UTILIZATION				.81	.91	

91 . Tustin Ranch Rd. at Irvine Bl.

ITAM 8.4-10 2030 NoNitm (TUSTIN ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	1	1700	221	.13*	452	.27*
NBT	3	5100	358	.07	921	.18
NBR	1	1700	252	.15	379	.22
SBL	1	1700	306	.18	184	.11
SBT	3	5100	1195	.23*	476	.09*
SBR	f		713		291	
EBL	2	3400	158	.05*	474	.14*
EBT	3	5100	1002	.20	1426	.28
EBR	1	1700	372	.22	203	.12
WBL	2	3400	393	.12	161	.05
WBT	3	5100	1986	.39*	1867	.37*
WBR	1	1700	174	.10	435	.26
Clearance Interval				.05*	.05*	
TOTAL CAPACITY UTILIZATION				.85	.92	

123 . Jamboree Rd. at Tustin Ranch Rd.

ITAM 8.4-10 2030 NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	1	1700	185	.11*	65	.04
NBT	2	3400	499	.15	1946	.57*
NBR	1	1700	33	.02	5	.00
SBL	1	1700	27	.02	3	.00
SBT	2	3400	2012	.59*	634	.19
SBR	1	1700	204	.12	95	.06
EBL	2	3400	75	.02*	194	.06*
EBT	1	1700	17	.01	3	.00
EBR	1	1700	46	.03	36	.02
WBL	1	1700	0	.00	0	.00
WBT	1	1700	0	.00*	0	.00*
WBR	1	1700	0	.00	0	.00
Clearance Interval				.05*	.05*	
TOTAL CAPACITY UTILIZATION				.77	.68	

125 . Jamboree Rd. at Irvine Bl.

ITAM 8.4-10 2030 NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	231	.07*	487	.14
NBT	3	5100	265	.05	1202	.24*
NBR	1	1700	127	.07	474	.28
SBL	2	3400	684	.20	234	.07*
SBT	3	5100	1684	.33*	527	.10
SBR	f		203		60	
EBL	2	3400	146	.04*	311	.09*
EBT	3	5100	1120	.22	1262	.25
EBR	1	1700	300	.18	240	.14
WBL	2	3400	446	.13	382	.11
WBT	3	5100	1726	.34*	1603	.31*
WBR	d	1700	198	.12	467	.27
Clearance Interval				.05*	.05*	
TOTAL CAPACITY UTILIZATION				.83	.76	

224 . Culver Dr. at Walnut Av.

ITAM 8.4-10 2030 NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	2	3400	172	.05*	341	.10
NBT	3	5100	712	.14	1512	.30*
NBR	1	1700	276	.16	320	.19
SBL	2	3400	286	.08	376	.11*
SBT	3	5100	1911	.37*	1427	.28
SBR	1	1700	532	.31	300	.18
EBL	2	3400	362	.11*	649	.19*
EBT	2	3400	638	.19	564	.17
EBR	1	1700	231	.14	149	.09
WBL	2	3400	428	.13	374	.11
WBT	2	3400	816	.24*	719	.21*
WBR	1	1700	286	.17	249	.15
Clearance Interval				.05*	.05*	
Note: Assumes Right-Turn Overlap for NBR						
TOTAL CAPACITY UTILIZATION				.82	.86	

228 . Culver Dr. at Barranca Pkwy.

ITAM 8.4-10 2030 NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	2	3400	157	.05*	286	.08
NBT	3	5100	667	.13	1671	.33*
NBR	1	1700	355	.21	385	.23
SBL	2	3400	354	.10	283	.08*
SBT	3	5100	2115	.41*	1171	.23
SBR	f		344		219	
EBL	2	3400	443	.13*	349	.10*
EBT	2	3400	935	.28	762	.22
EBR	1	1700	220	.13	501	.29
WBL	2	3400	379	.11	278	.08
WBT	2	3400	919	.27*	775	.23*
WBR	d	1700	133	.08	329	.19
Clearance Interval				.05*	.05*	
TOTAL CAPACITY UTILIZATION				.91	.79	

235 . Culver Dr. at University Dr.

ITAM 8.4-10 2030 NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL V/C	PM PK HOUR VOL V/C		
NBL	1	1700	10 .01*	62 .04*		
NBT	4	6800	1678 .25	1824 .27		
NBR	d	1700	427 .25	1017 .60		
SBL	1	1700	32 .02	32 .02		
SBT	3	5100	1687 .41*	1361 .32*		
SBR	0	0	381	292		
EBL	2	3400	41 .01	333 .10		
EBT	3	5100	471 .10*	911 .18*		
EBR	0	0	15	23		
WBL	2	3400	567 .17*	766 .23*		
WBT	3	5100	949 .19	536 .12		
WBR	0	0	22	52		
Right Turn Adjustment				NBR		.09*
Clearance Interval						.05*

TOTAL CAPACITY UTILIZATION .74 .91

249 . Yale Av. at Irvine Bl.

ITAM 8.4-10 2030 NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL V/C	PM PK HOUR VOL V/C		
NBL	1	1700	111 .07	242 .14		
NBT	2	3400	198 .06*	267 .08*		
NBR	d	1700	152 .09	151 .09		
SBL	1	1700	401 .24*	274 .16*		
SBT	2	3400	341 .10	137 .04		
SBR	d	1700	278 .16	101 .06		
EBL	1	1700	149 .09*	341 .20*		
EBT	3	5100	1467 .30	1665 .33		
EBR	0	0	81	33		
WBL	1	1700	228 .13	151 .09		
WBT	3	5100	2101 .42*	2117 .45*		
WBR	0	0	53	182		
Clearance Interval						.05*

TOTAL CAPACITY UTILIZATION .86 .94

288 . Jeffrey Rd. at Walnut Av./I-5 SB Ramps 289 . Jeffrey Rd. at ICD

ITAM 8.4-10 2030 NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL V/C	PM PK HOUR VOL V/C		
NBL	2	3400	179 .05*	302 .09		
NBT	3	5100	839 .16	1781 .35*		
NBR	1	1700	161 .09	204 .12		
SBL	2	3400	626 .18	325 .10*		
SBT	3	5100	1843 .42*	1048 .31		
SBR	0	0	323	857 .50		
EBL	2	3400	118 .03	291 .09		
EBT	1	1700	439 .26*	241 .14*		
EBR	1	1700	364 .21	300 .18		
WBL	2	3400	308 .09*	642 .19*		
WBT	1	1700	102 .06	151 .09		
WBR	1	1700	200 .12	248 .15		
Clearance Interval						.05*

TOTAL CAPACITY UTILIZATION .87 .83

ITAM 8.4-10 2030 NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL V/C	PM PK HOUR VOL V/C		
NBL	2	3400	199 .06*	329 .10		
NBT	3	5100	712 .14	1651 .32*		
NBR	1	1700	278 .16	311 .18		
SBL	2	3400	484 .14	329 .10*		
SBT	3	5100	1822 .36*	1326 .26		
SBR	1	1700	563 .33	274 .16		
EBL	2	3400	207 .06	335 .10*		
EBT	3	5100	1390 .27*	890 .17		
EBR	f		352	234		
WBL	2	3400	267 .08*	260 .08		
WBT	3	5100	880 .17	1588 .31*		
WBR	1	1700	222 .13	574 .34		
Clearance Interval						.05*

TOTAL CAPACITY UTILIZATION .82 .88

290 . Jeffrey Rd. at Barranca Pkwy.

ITAM 8.4-10 2030 NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	2	3400	278	.08*	304	.09*
NBT	3	5100	988	.24	1653	.35
NBR	0	0	244		134	
SBL	2	3400	132	.04	111	.03
SBT	3	5100	1940	.46*	1387	.32*
SBR	0	0	397		260	
EBL	2	3400	177	.05	439	.13*
EBT	2	3400	814	.24*	866	.25
EBR	d	1700	280	.16	275	.16
WBL	2	3400	190	.06*	219	.06
WBT	2	3400	735	.22	697	.21*
WBR	1	1700	95	.06	112	.07
Clearance Interval				.05*		.05*

TOTAL CAPACITY UTILIZATION .89 .80

293 . Jeffrey Rd. at I-405 NB Ramps

ITAM 8.4-10 2030 NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	0	0	0		0	
NBT	3	5100	1667	.33	2297	.45*
NBR	f		350		110	
SBL	0	0	0		0	
SBT	3	5100	2085	.41*	1553	.30
SBR	f		1350		620	
EBL	0	0	0		0	
EBT	0	0	0		0	
EBR	0	0	0		0	
WBL	2	3400	965	.28*	1337	.39*
WBT	0	0	0		0	
WBR	1	1700	283	.17	513	.30
Clearance Interval				.05*		.05*

TOTAL CAPACITY UTILIZATION .74 .89

302 . Sand Canyon. Av. at Trabuco Pkwy.

ITAM 8.4-10 2030 NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	2	3400	203	.06*	670	.20
NBT	3	5100	394	.08	2023	.40*
NBR	f		246		427	
SBL	2	3400	367	.11	360	.11*
SBT	3	5100	2269	.44*	749	.15
SBR	1	1700	97	.06	161	.09
EBL	2	3400	137	.04	191	.06
EBT	3	5100	398	.08*	534	.10*
EBR	f		647		225	
WBL	2	3400	474	.14*	395	.12*
WBT	3	5100	831	.16	479	.09
WBR	d	1700	289	.17	426	.25
Right Turn Adjustment					WBR	.01*
Clearance Interval				.05*		.05*

TOTAL CAPACITY UTILIZATION .77 .79

303 . Sand Canyon. Av. at I-5 NB Ramps

ITAM 8.4-10 2030 NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	2	3400	223	.07*	614	.18
NBT	3	5100	1058	.21	2639	.52*
NBR	d	1700	710	.42	884	.52
SBL	2	3400	389	.11	224	.07*
SBT	3	5100	3112	.61*	1348	.26
SBR	1	1700	356	.21	249	.15
EBL	2	3400	143	.04	364	.11*
EBT	1	1700	261	.15*	132	.08
EBR	1	1700	287	.17	215	.13
WBL	2	3400	371	.11*	567	.17
WBT	1	1700	181	.11	627	.37*
WBR	2	3400	309	.09	448	.13
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.99	1.12	

305 . Sand Canyon. Av. at I-5 SB Ramps

ITAM 8.4-10 2030 NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	0	0	0		0	
NBT	3	5100	1284	.25	3485	.68*
NBR	d	1700	89	.05	246	.14
SBL	2	3400	588	.17	485	.14*
SBT	3	5100	3073	.60*	1633	.32
SBR	0	0	0		0	
EBL	2.5		696	.20*	551	.11*
EBT	0	6800	2		0	
EBR	1.5		1007	.30	309	{.00}
WBL	0	0	0		0	
WBT	0	0	0		0	
WBR	0	0	0		0	
Right Turn Adjustment			EBR	.10*		
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.95	.98	

306 . Sand Canyon. Av. at Oak Cyn./Laguna Cyn. R

ITAM 8.4-10 2030 NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	1	1700	66	.04	173	.10
NBT	3	5100	797	.16*	1590	.31*
NBR	1	1700	229	.13	160	.09
SBL	2	3400	1584	.47*	605	.18*
SBT	3	5100	1739	.34	1092	.21
SBR	d	1700	162	.10	144	.08
EBL	2	3400	89	.03	183	.05*
EBT	1	1700	160	.09*	176	.10
EBR	d	1700	110	.06	61	.04
WBL	2	3400	93	.03*	229	.07
WBT	0.5	3400	132	{.08}	73	{.39}*
WBR	1.5		366		1472	
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.80	.98	

310 . Sand Canyon. Av. at Alton Pkwy.

ITAM 8.4-10 2030 NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	2	3400	207	.06	218	.06*
NBT	3	5100	1265	.25*	806	.16
NBR	1	1700	730	.43	178	.10
SBL	2	3400	296	.09*	97	.03
SBT	3	5100	898	.18	1213	.24*
SBR	1	1700	135	.08	238	.14
EBL	2	3400	212	.06*	159	.05
EBT	3	5100	664	.13	805	.16*
EBR	1	1700	315	.19	278	.16
WBL	2	3400	297	.09	739	.22*
WBT	2	3400	698	.21*	805	.24
WBR	1	1700	113	.07	265	.16
Right Turn Adjustment			NBR	.07*		
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.73	.73	

311 . Sand Canyon. Av. at I-405 NB Ramps

ITAM 8.4-10 2030 NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	0	0	0		0	
NBT	2	3400	1728	.51*	886	.26
NBR	f		620		380	
SBL	0	0	0		0	
SBT	2	3400	424	.12	887	.26*
SBR	f		1210		1340	
EBL	0	0	0		0	
EBT	0	0	0		0	
EBR	0	0	0		0	
WBL	0.5		56		183	
WBT	0	3400	0	.17*	0	.15*
WBR	1.5		512		334	
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.73		.46

327 . Barranca Pkwy. at Technology

ITAM 8.4-10 2030 NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	2	3400	617	.18*	128	.04
NBT	2	3400	818	.24	675	.20*
NBR	1	1700	411	.24	259	.15
SBL	1	1700	108	.06	351	.21*
SBT	2	3400	614	.18*	981	.29
SBR	1	1700	318	.19	90	.05
EBL	2	3400	77	.02*	254	.07
EBT	2	3400	271	.08	439	.13*
EBR	d	1700	123	.07	530	.31
WBL	2	3400	43	.01	449	.13*
WBT	2	3400	445	.13*	231	.07
WBR	d	1700	164	.10	191	.11
Right Turn Adjustment					EBR	.09*
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.56		.81

338 . Alton Pkwy. at Irvine Bl.

ITAM 8.4-10 2030 NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	2	3400	252	.07*	689	.20*
NBT	3	5100	454	.09	1207	.24
NBR	f		94		184	
SBL	2	3400	319	.09	257	.08
SBT	3	5100	1425	.28*	596	.12*
SBR	f		897		938	
EBL	2	3400	778	.23*	869	.26*
EBT	3	5100	1439	.28	1201	.24
EBR	1	1700	701	.41	328	.19
WBL	2	3400	257	.08	137	.04
WBT	3	5100	1464	.29*	1837	.36*
WBR	1	1700	290	.17	366	.22
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.92		.99

344 . Alton Pkwy. at Technology Dr. W.

ITAM 8.4-10 2030 NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	809	.24*	635	.19*
NBT	3	5100	1834	.36	995	.20
NBR	1	1700	739	.43	157	.09
SBL	1	1700	73	.04	36	.02
SBT	4	6800	1349	.20*	1886	.28*
SBR	1	1700	192	.11	268	.16
EBL	1	1700	173	.10*	448	.26*
EBT	2	3400	108	.03	97	.03
EBR	2	3400	232	.07	1197	.35
WBL	2	3400	69	.02	887	.26
WBT	2	3400	69	.02*	147	.04*
WBR	d	1700	13	.01	27	.02
Right Turn Adjustment					EBR	.12*
Clearance Interval				.05*		.05*
Note: Assumes Right-Turn Overlap for EBR						

TOTAL CAPACITY UTILIZATION .61 .94

345 . Alton Pkwy. at I-5 NB Ramps

ITAM 8.4-10 2030 NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	0	0	0		0	
NBT	3	5100	2590	.51*	1561	.31
NBR	f		80		560	
SBL	0	0	0		0	
SBT	3	5100	1389	.27	2109	.41*
SBR	f		240		1190	
EBL	0	0	0		0	
EBT	0	0	0		0	
EBR	0	0	0		0	
WBL	1.5		581		161	.05*
WBT	0	5100	0	.23*	0	
WBR	1.5		570		149	{.01}
Clearance Interval				.05*		.05*

TOTAL CAPACITY UTILIZATION .79 .51

348 . Alton Pkwy. at ICD

ITAM 8.4-10 2030 NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	62	.02*	44	.01
NBT	3	5100	600	.12	710	.14*
NBR	1	1700	167	.10	315	.19
SBL	2	3400	231	.07	899	.26*
SBT	3	5100	893	.18*	778	.15
SBR	1	1700	386	.23	141	.08
EBL	2	3400	215	.06*	422	.12*
EBT	3	5100	532	.10	1190	.23
EBR	1	1700	11	.01	36	.02
WBL	2	3400	399	.12	218	.06
WBT	3	5100	1235	.24*	1047	.21*
WBR	1	1700	817	.48	331	.19
Right Turn Adjustment					WBR	.18*
Clearance Interval				.05*		.05*

TOTAL CAPACITY UTILIZATION .73 .78

362 . Bake Pkwy. at Irvine Bl.

ITAM 8.4-10 2030 NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	1	1700	542	.32*	240	.14
NBT	3	5100	1813	.39	1286	.38*
NBR	0	0	155		712	.42
SBL	2	3400	32	.01	147	.04*
SBT	3	5100	1106	.22*	1272	.25
SBR	1	1700	529	.31	1032	.61
EBL	2	3400	740	.22*	706	.21
EBT	3	5100	294	.06	1051	.21*
EBR	1	1700	246	.14	505	.30
WBL	2	3400	671	.20	433	.13*
WBT	3	5100	1022	.20*	618	.12
WBR	1	1700	51	.03	68	.04
Right Turn Adjustment					SBR	.16*
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION			1.01		.97	

368 . Bake Pkwy. at I-5 SB Ramps

ITAM 8.4-10 2030 NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	0	0	0		0	
NBT	3	5100	1324	.26*	2113	.41*
NBR	0	0	0		0	
SBL	0	0	0		0	
SBT	3	5100	912	.18	1280	.25
SBR	f		350		843	
EBL	3	5100	2556	.50*	2183	.43*
EBT	0	0	0		0	
EBR	1	1700	488	.29	252	.15
WBL	0	0	0		0	
WBT	0	0	0		0	
WBR	0	0	0		0	
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION			.81		.89	

378 . Lake Forest Dr. at Jeronimo Rd.

ITAM 8.4-10 2030 NoNitm (LAKE FOREST ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	1	1700	100	.06*	71	.04
NBT	3	5100	878	.17	1939	.38*
NBR	1	1700	113	.07	259	.15
SBL	1	1700	209	.12	127	.07*
SBT	3	5100	1544	.30*	1233	.24
SBR	1	1700	327	.19	190	.11
EBL	1	1700	82	.05	160	.09
EBT	2	3400	298	.13*	839	.27*
EBR	0	0	130		81	
WBL	1	1700	386	.23*	241	.14*
WBT	2	3400	743	.30	280	.11
WBR	0	0	272		88	
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.77		.91

379 . Lake Forest Dr. at Muirlands Bl.

ITAM 8.4-10 2030 NoNitm (LAKE FOREST ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	31	.01*	68	.02
NBT	3	5100	773	.15	1649	.32*
NBR	1	1700	149	.09	560	.33
SBL	2	3400	79	.02	161	.05*
SBT	3	5100	1966	.39*	1288	.25
SBR	1	1700	174	.10	118	.07
EBL	2	3400	71	.02*	559	.16
EBT	2	3400	310	.09	1159	.34*
EBR	1	1700	50	.03	170	.10
WBL	2	3400	483	.14	282	.08*
WBT	2	3400	936	.28*	344	.10
WBR	1	1700	126	.07	103	.06
Clearance Interval				.05*		.05*
Note: Assumes Right-Turn Overlap for EBR						
TOTAL CAPACITY UTILIZATION				.75		.84

380 . Lake Forest Dr. at Rockfield Bl.

ITAM 8.4-10 2030 NoNitm (LAKE FOREST ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	608	.18*	651	.19
NBT	3	5100	1266	.25	2121	.42*
NBR	1	1700	226	.13	531	.31
SBL	2	3400	130	.04	159	.05*
SBT	4	6800	2316	.36*	1384	.22
SBR	0	0	102		109	
EBL	2	3400	63	.02*	259	.08
EBT	2	3400	164	.05	809	.24*
EBR	2	3400	211	.06	294	.09
WBL	2	3400	536	.16	583	.17*
WBT	2	3400	751	.22*	259	.08
WBR	1	1700	113	.07	170	.10
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.83		.93

387 . Ridge Route Dr. at Rockfield Bl.

ITAM 8.4-10 2030 NoNitm (LAKE FOREST ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	0.5		69		31	.02
NBT	1.5	3400	30	.04*	20	.02*
NBR	0		51		10	
SBL	0.5		194	.11*	118	.07*
SBT	1.5	3400	10	.01	20	.01
SBR	d	1700	236	.14	151	.09
EBL	1	1700	47	.03*	292	.17
EBT	2	3400	265	.08	1602	.49*
EBR	0	0	10		60	
WBL	1	1700	10	.01	20	.01*
WBT	2	3400	835	.27*	579	.21
WBR	0	0	84		138	
Right Turn Adjustment			SBR	.01*		
Clearance Interval				.05*		.05*
Note: Assumes N/S Split Phasing						
TOTAL CAPACITY UTILIZATION				.51		.64

420 . El Toro Rd. at Jeronimo Rd.

ITAM 8.4-10 2030 NoNitm (LAKE FOREST ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	1	1700	90	.05	80	.05
NBT	3	5100	1482	.29*	1822	.36*
NBR	1	1700	201	.12	188	.11
SBL	1	1700	443	.26*	179	.11*
SBT	3	5100	1592	.31	1040	.20
SBR	d	1700	90	.05	341	.20
EBL	1	1700	117	.07*	206	.12
EBT	2	3400	287	.11	703	.26*
EBR	0	0	98		172	
WBL	2	3400	541	.16	349	.10*
WBT	2	3400	791	.23*	539	.16
WBR	1	1700	110	.06	342	.20
Clearance Interval				.05*	.05*	
Note: Assumes Right-Turn Overlap for NBR						
TOTAL CAPACITY UTILIZATION				.90	.88	

423 . Muirlands Bl. at Los Alisos Bl.

ITAM 8.4-10 2030 NoNitm (LAKE FOREST ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	1	1700	241	.14	131	.08
NBT	2	3400	1306	.38*	577	.17*
NBR	1	1700	214	.13	241	.14
SBL	1	1700	233	.14*	503	.30*
SBT	2	3400	349	.14	836	.30
SBR	0	0	129		198	
EBL	1	1700	266	.16*	227	.13
EBT	3	5100	774	.15	1777	.35*
EBR	1	1700	90	.05	263	.15
WBL	1	1700	391	.23	321	.19*
WBT	3	5100	1370	.27*	1001	.20
WBR	d	1700	249	.15	226	.13
Clearance Interval				.05*	.05*	
TOTAL CAPACITY UTILIZATION			1.00	1.06		

424 . Los Alisos Bl. at Rockfield Bl./Fordview St.

ITAM 8.4-10 2030 NoNitm (LAKE FOREST ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	1	1700	337	.20*	350	.21*
NBT	2	3400	949	.28	1570	.46
NBR	0	0	10		10	
SBL	1	1700	10	.01	10	.01
SBT	2	3400	1062	.50*	1020	.39*
SBR	0	0	633		290	
EBL	1.5		211		700	
EBT	0.5	3400	90	.09*	50	.22*
EBR	1	1700	198	.12	420	.25
WBL	0	0	20		20	
WBT	1	1700	110	.08*	70	.05*
WBR	d	1700	40	.02	20	.01
Clearance Interval				.05*	.05*	
Note: Assumes E/W Split Phasing						
TOTAL CAPACITY UTILIZATION			.92	.92		

2030 With Existing (Built/Under Construction) NITM Improvements

222 . Culver Dr. at Trabuco Rd.

ITAM 8.4-10 2030 BuiltNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	0	0	0		0	
NBT	3	5100	558	.11*	1949	.38*
NBR	f		1131		1533	
SBL	1	1700	682	.40*	345	.20*
SBT	3	5100	2449	.48	1254	.25
SBR	f		719		180	
EBL	0	0	0		0	
EBT	0	0	0		0	
EBR	0	0	0		0	
WBL	2	3400	732	.22*	521	.15*
WBT	0	0	0		0	
WBR	2	3400	799	.24	878	.26
Clearance Interval				.05*		.05*

TOTAL CAPACITY UTILIZATION .78 .78

223 . Culver Dr. at I-5 SB Ramps

ITAM 8.4-10 2030 BuiltNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	0	0	0		0	
NBT	3	5100	1192	.23	1870	.37*
NBR	f		240		300	
SBL	0	0	0		0	
SBT	3	5100	2232	.44*	1487	.29
SBR	f		340		260	
EBL	3	5100	608	.12*	1320	.26*
EBT	0	0	0		0	
EBR	2	3400	358	.11	863	.25
WBL	0	0	0		0	
WBT	0	0	0		0	
WBR	0	0	0		0	
Clearance Interval				.05*		.05*

TOTAL CAPACITY UTILIZATION .61 .68

321 . Laguna Canyon Rd. at Old Laguna Cyn. Rd.423 . Muirlands Bl. at Los Alisos Bl.

ITAM 8.4-10 2030 BuiltNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	609	.18	162	.05*
NBT	3	5100	3797	.74*	2885	.57
NBR	1	1700	15	.01	67	.04
SBL	2	3400	12	.00	37	.01
SBT	3	5100	2244	.44	3110	.61*
SBR	1	1700	364	.21	305	.18
EBL	3	5100	242	.05*	271	.05*
EBT	1	1700	12	.01	75	.04
EBR	f		95		586	
WBL	1	1700	61	.04	33	.02
WBT	2	3400	108	.03*	33	.01*
WBR	d	1700	51	.03	24	.01
Clearance Interval				.05*		.05*

TOTAL CAPACITY UTILIZATION .87 .77

ITAM 8.4-10 2030 BuiltNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	1	1700	240	.14	113	.07
NBT	2	3400	1000	.29*	566	.17*
NBR	1	1700	151	.09	238	.14
SBL	1	1700	168	.10*	398	.23*
SBT	2	3400	546	.21	886	.32
SBR	0	0	175		207	
EBL	1	1700	328	.19*	267	.16
EBT	3	5100	831	.16	1444	.28*
EBR	1	1700	171	.10	254	.15
WBL	1	1700	312	.18	261	.15*
WBT	3	5100	1105	.22*	790	.15
WBR	d	1700	262	.15	247	.15
Clearance Interval				.05*		.05*

TOTAL CAPACITY UTILIZATION .85 .88

422 . Los Alisos Bl. at Jeromino Rd.

ITAM 8.4-10 2030 Built (LAKE FOREST ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	1	1700	198	.12*	159	.09
NBT	3	5100	742	.15	1586	.31*
NBR	1	1700	300	.18	384	.23
SBL	1	1700	289	.17	259	.15*
SBT	3	5100	1524	.30*	1051	.21
SBR	1	1700	408	.24	151	.09
EBL	2	3400	164	.05*	393	.12
EBT	2	3400	576	.17	1057	.31*
EBR	1	1700	250	.15	300	.18
WBL	2	3400	263	.08	239	.07*
WBT	2	3400	1301	.38*	451	.13
WBR	1	1700	136	.08	281	.17
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.90		.89

432 . Alicia Pkwy. at Muirlands Bl.

ITAM 8.4-10 2030 BuiltNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	310	.09	450	.13
NBT	3	5100	1642	.32*	2245	.44*
NBR	1	1700	45	.03	203	.12
SBL	1	1700	147	.09*	248	.15*
SBT	4	6800	1938	.31	1821	.29
SBR	0	0	147		172	
EBL	1	1700	111	.07*	170	.10
EBT	2	3400	339	.10	820	.24*
EBR	1	1700	428	.25	481	.28
WBL	1	1700	138	.08	131	.08*
WBT	2	3400	684	.20*	490	.14
WBR	1	1700	351	.21	258	.15
Clearance Interval				.05*	.05*	
Note: Assumes Right-Turn Overlap for EBR						
TOTAL CAPACITY UTILIZATION				.73	.96	

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2030 With Committed Improvements

358 . ICD at Enterprise Dr.

ITAM 8.4-10 2030 Comm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	0	0	0		0	
NBT	3	5100	2997	.59*	1779	.35
NBR	f		439		1039	
SBL	1	1700	11	.01*	91	.05
SBT	3	5100	980	.19	2129	.42*
SBR	f		0		0	
EBL	0	0	0		0	
EBT	0	0	0		0	
EBR	0	0	0		0	
WBL	2	3400	40	.01*	231	.07*
WBT	0	0	0		0	
WBR	f		373		551	
Clearance Interval				.05*	.05*	

TOTAL CAPACITY UTILIZATION .66 .54

359 . ICD at I-405 SB Ramps

ITAM 8.4-10 2030 Comm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	0	0	0		0	
NBT	4	6800	2367	.35*	1952	.29
NBR	f		60		90	
SBL	0	0	0		0	
SBT	3	5100	780	.15	1898	.37*
SBR	f		250		380	
EBL	3	5100	1003	.20*	708	.14*
EBT	0	0	0		0	
EBR	f		1050		802	
WBL	0	0	0		0	
WBT	0	0	0		0	
WBR	0	0	0		0	
Clearance Interval				.05*	.05*	

TOTAL CAPACITY UTILIZATION .60 .56

406 . Laguna Canyon Rd. at Lake Forest Dr.

ITAM 8.4-10 2030 Comm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	0	0	0		0	
NBT	3	5100	2174	.43*	1397	.27*
NBR	1	1700	138	.08	119	.07
SBL	3	5100	982	.19*	1213	.24*
SBT	3	5100	1124	.22	1696	.33
SBR	0	0	0		0	
EBL	0	0	0		0	
EBT	0	0	0		0	
EBR	0	0	0		0	
WBL	2	3400	126	.04*	167	.05*
WBT	0	0	0		0	
WBR	f		1736		1407	
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.71		.61

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2030 With NITM (Partial or Full as Noted) Improvements

34 . Red Hill Av. at Irvine Blvd.

ITAM 8.4-10 2030 2011App (TUSTIN ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	267	.08*	583	.17*
NBT	1	1700	101	.06	181	.11
NBR	1	1700	8	.00	20	.01
SBL	2	3400	138	.04	98	.03
SBT	2	3400	357	.11*	167	.05*
SBR	d	1700	146	.09	121	.07
EBL	1	1700	95	.06*	204	.12*
EBT	3	5100	1275	.32	1890	.44
EBR	0	0	352		340	
WBL	1	1700	131	.08	72	.04
WBT	3	5100	2587	.51*	2573	.52*
WBR	0	0	34		72	
Clearance Interval				.05*	.05*	
TOTAL CAPACITY UTILIZATION				.81	.91	

91 . Tustin Ranch Rd. at Irvine Bl.

ITAM 8.4-10 2030 2011App (TUSTIN ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	1	1700	221	.13*	452	.27*
NBT	3	5100	358	.07	921	.18
NBR	1	1700	252	.15	379	.22
SBL	1	1700	306	.18	184	.11
SBT	3	5100	1195	.23*	476	.09*
SBR	f		713		291	
EBL	2	3400	158	.05*	474	.14*
EBT	3	5100	1002	.20	1426	.28
EBR	1	1700	372	.22	203	.12
WBL	2	3400	393	.12	161	.05
WBT	3	5100	1986	.39*	1867	.37*
WBR	1	1700	174	.10	435	.26
Clearance Interval				.05*	.05*	
TOTAL CAPACITY UTILIZATION				.85	.92	

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235 . Culver Dr. at University Dr.

ITAM 8.4-10 2030 FullNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	10	.00	62	.02*
NBT	4	6800	1678	.25	1824	.27
NBR	2	3400	427	.13	1017	.30
SBL	2	3400	32	.01	32	.01
SBT	3	5100	1687	.33*	1361	.27*
SBR	d	1700	381	.22	292	.17
EBL	2	3400	41	.01	333	.10
EBT	3	5100	471	.09*	911	.18*
EBR	d	1700	15	.01	23	.01
WBL	2	3400	567	.17*	766	.23*
WBT	3	5100	949	.19	536	.12
WBR	0	0	22		52	
Clearance Interval				.05*	.05*	
Note: Assumes Right-Turn Overlap for NBR						

TOTAL CAPACITY UTILIZATION .64 .75

249 . Yale Av. at Irvine Bl.

ITAM 8.4-10 2030 FullNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	1	1700	111	.07	242	.14*
NBT	2	3400	198	.06*	267	.08
NBR	d	1700	152	.09	151	.09
SBL	2	3400	401	.12*	274	.08
SBT	2	3400	341	.10	137	.04*
SBR	d	1700	278	.16	101	.06
EBL	1	1700	149	.09*	341	.20*
EBT	3	5100	1467	.30	1665	.33
EBR	0	0	81		33	
WBL	1	1700	228	.13	151	.09
WBT	3	5100	2101	.42*	2117	.45*
WBR	0	0	53		182	
Clearance Interval				.05*	.05*	

TOTAL CAPACITY UTILIZATION .74 .88

289 . Jeffrey Rd. at ICD

ITAM 8.4-10 2030 FullNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	199	.06*	329	.10*
NBT	4	6800	712	.10	1651	.24
NBR	1	1700	278	.16	311	.18
SBL	3	5100	484	.09	329	.06
SBT	4	6800	1822	.35*	1326	.24*
SBR	0	0	563		274	
EBL	2	3400	207	.06	335	.10*
EBT	3	5100	1390	.27*	890	.17
EBR	f		352		234	
WBL	2	3400	267	.08*	260	.08
WBT	4	6800	880	.13	1588	.23*
WBR	1	1700	222	.13	574	.34
Right Turn Adjustment					WBR	.03*
Clearance Interval				.05*	.05*	

TOTAL CAPACITY UTILIZATION .81 .75

291 . Jeffrey Rd. at Alton Pkwy.

ITAM 8.4-10 2030 Part SB (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	483	.14*	623	.18
NBT	3	5100	1083	.21	1541	.30*
NBR	f		247		297	
SBL	2	3400	400	.12	513	.15*
SBT	3	5100	1916	.38*	1279	.25
SBR	d	1700	196	.12	207	.12
EBL	2	3400	236	.07	333	.10
EBT	2	3400	672	.20*	990	.29*
EBR	d	1700	614	.36	396	.23
WBL	2	3400	570	.17*	455	.13*
WBT	2	3400	671	.20	819	.24
WBR	d	1700	101	.06	155	.09
Right Turn Adjustment			EBR	.05*		
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.99		.92

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291 . Jeffrey Rd. at Alton Pkwy.

ITAM 8.4-10 2030 FullNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	483	.14*	623	.18
NBT	3	5100	1083	.21	1541	.30*
NBR	1	1700	247	.15	297	.17
SBL	2	3400	400	.12	513	.15*
SBT	3	5100	1916	.38*	1279	.25
SBR	d	1700	196	.12	207	.12
EBL	2	3400	236	.07	333	.10*
EBT	3	5100	672	.13*	990	.19
EBR	d	1700	614	.36	396	.23
WBL	2	3400	570	.17*	455	.13
WBT	2	3400	671	.20	819	.24*
WBR	d	1700	101	.06	155	.09
Right Turn Adjustment			EBR	.12*		
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.99		.84

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303 . Sand Canyon. Av. at I-5 NB Ramps

ITAM 8.4-10 2030 FullNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	223	.07*	614	.18
NBT	4	6800	1058	.16	2639	.39*
NBR	d	1700	710	.42	884	.52
SBL	2	3400	389	.11	224	.07*
SBT	4	6800	3112	.46*	1348	.20
SBR	1	1700	356	.21	249	.15
EBL	1.5	✓	143		364	.11*
EBT	1.5	5100	261	.08*	132	.08
EBR	1	1700	287	.17	215	.13
WBL	2	3400	371	.11*	567	.17
WBT	1.5	5100	181	{.05}	627	{.19}*
WBR	1.5		309		448	
Right Turn Adjustment			EBR	.04*		
Clearance Interval				.05*		.05*
Note: Assumes E/W Split Phasing						
TOTAL CAPACITY UTILIZATION				.81	.81	

305 . Sand Canyon. Av. at I-5 SB Ramps

ITAM 8.4-10 2030 FullNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	0	0	0		0	
NBT	4	6800	1284	.19	3485	.51*
NBR	1	1700	89	.05	246	.14
SBL	2	3400	588	.17	485	.14*
SBT	4	6800	3073	.45*	1633	.24
SBR	0	0	0		0	
EBL	2.5		696	.20*	551	.11*
EBT	0	6800	2		0	
EBR	1.5		1007	.30	309	{.00}
WBL	0	0	0		0	
WBT	0	0	0		0	
WBR	0	0	0		0	
Right Turn Adjustment			EBR	.10*		
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.80	.81	

306 . Sand Canyon. Av. at Oak Cyn./Laguna Cyn. R

ITAM 8.4-10 2030 FullNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	1	1700	66	.04	173	.10
NBT	3	5100	797	.16*	1590	.31*
NBR	1	1700	229	.13	160	.09
SBL	2	3400	1584	.47*	605	.18*
SBT	3	5100	1739	.34	1092	.21
SBR	d	1700	162	.10	144	.08
EBL	2	3400	89	.03	183	.05*
EBT	1	1700	160	.09*	176	.10
EBR	d	1700	110	.06	61	.04
WBL	2	3400	93	.03*	229	.07
WBT	0.5	3400	132	{.08}	73	{.39}*
WBR	1.5		366		1472	
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.80	.98	

327 . Barranca Pkwy. at Technology

ITAM 8.4-10 2030 FullNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	617	.18*	128	.04*
NBT	2	3400	818	.24	675	.20
NBR	1	1700	411	.24	259	.15
SBL	2	3400	108	.03	351	.10
SBT	2	3400	614	.18*	981	.29*
SBR	1	1700	318	.19	90	.05
EBL	1	1700	77	.05*	254	.15
EBT	1.5	5100	271	.08	439	{.18}*
EBR	1.5		123		530	
WBL	2	3400	43	.01	449	.13*
WBT	2	3400	445	.13*	231	.07
WBR	d	1700	164	.10	191	.11
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.59	.69	

338 . Alton Pkwy. at Irvine Bl.

ITAM 8.4-10 2030 FullNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	252	.07*	689	.20*
NBT	3	5100	454	.09	1207	.24
NBR	f		94		184	
SBL	2	3400	319	.09	257	.08
SBT	3	5100	1425	.28*	596	.12*
SBR	f		897		938	
EBL	2.5		778	.23	869	
EBT	2.5	8500	1439	.28*	1201	.24*
EBR	1	1700	701	.41	328	.19
WBL	2	3400	257	.08	137	.04
WBT	3	5100	1464	.29*	1837	.36*
WBR	1	1700	290	.17	366	.22
Right Turn Adjustment			EBR	.06*		
Clearance Interval				.05*		.05*
Note: Assumes E/W Split Phasing						
Note: Assumes Right-Turn Overlap for EBR						

TOTAL CAPACITY UTILIZATION 1.03 .97

344 . Alton Pkwy. at Technology Dr. W.

ITAM 8.4-10 2030 FullNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	809	.24*	635	.19*
NBT	3	5100	1834	.36	995	.20
NBR	1	1700	739	.43	157	.09
SBL	1	1700	73	.04	36	.02
SBT	4	6800	1349	.20*	1886	.28*
SBR	1	1700	192	.11	268	.16
EBL	1.5		173		448	.13*
EBT	1.5	5100	108	.06*	97	.06
EBR	2	3400	232	.07	1197	.35
WBL	2.5		69	.02	887	.17*
WBT	1.5	6800	69	.02*	147	.09
WBR	d	1700	13	.01	27	.02
Right Turn Adjustment			NBR	.01*	EBR	.03*
Clearance Interval				.05*		.05*
Note: Assumes E/W Split Phasing						
Note: Assumes Right-Turn Overlap for EBR						

TOTAL CAPACITY UTILIZATION .58 .85

362 . Bake Pkwy. at Irvine Bl.

ITAM 8.4-10 2030 FullNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	542	.16	240	.07
NBT	3	5100	1813	.39*	1286	.38*
NBR	0	0	155		712	.42
SBL	2	3400	32	.01*	147	.04*
SBT	3	5100	1106	.22	1272	.25
SBR	1	1700	529	.31	1032	.61
EBL	2	3400	740	.22*	706	.21
EBT	2.5	6800	294	{.06}	1051	{.21}*
EBR	1.5		246	{.01}	505	{.17}
WBL	2	3400	671	.20	433	.13*
WBT	4	6800	1022	.16*	618	.10
WBR	0	0	51		68	
Right Turn Adjustment					SBR	.08*
Clearance Interval				.05*		.05*

TOTAL CAPACITY UTILIZATION .83 .89

ITAM 8.4-10 2030 2011App Part NB(IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	447	.13*	56	.02*
NBT	3	5100	2522	.49	2407	.47
NBR	d	1700	99	.06	548	.32
SBL	1	1700	69	.04	38	.02
SBT	3	5100	2314	.45*	2477	.49*
SBR	d	1700	117	.07	23	.01
EBL	2	3400	10	.00	65	.02
EBT	2	3400	23	.01*	221	.07*
EBR	1	1700	47	.03	185	.11
WBL	1	1700	436	.26*	139	.08*
WBT	2	3400	572	.19	122	.07
WBR	0	0	74		99	
Right Turn Adjustment					EBR	.02*
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.90		.73

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378 . Lake Forest Dr. at Jeronimo Rd.

ITAM 8.4-10 2030 FullNitm (LAKE FOREST ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	1	1700	100	.06*	71	.04
NBT	3	5100	878	.17	1939	.38*
NBR	1	1700	113	.07	259	.15
SBL	2	3400	209	.06	127	.04*
SBT	3	5100	1544	.30*	1233	.24
SBR	1	1700	327	.19	190	.11
EBL	1	1700	82	.05	160	.09
EBT	2	3400	298	.09*	839	.25*
EBR	1	1700	130	.08	81	.05
WBL	1	1700	386	.23*	241	.14*
WBT	2	3400	743	.22	280	.08
WBR	1	1700	272	.16	88	.05
Clearance Interval				.05*	.05*	
TOTAL CAPACITY UTILIZATION				.73	.86	

380 . Lake Forest Dr. at Rockfield Bl.

ITAM 8.4-10 2030 FullNitm (LAKE FOREST ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	608	.18*	651	.19
NBT	3	5100	1266	.25	2121	.42*
NBR	1	1700	226	.13	531	.31
SBL	2	3400	130	.04	159	.05*
SBT	4	6800	2316	.36*	1384	.22
SBR	0	0	102		109	
EBL	2	3400	63	.02*	259	.08
EBT	2	3400	164	.05	809	.24*
EBR	2	3400	211	.06	294	.09
WBL	3	5100	536	.11	583	.11*
WBT	2	3400	751	.25*	259	.13
WBR	0	0	113		170	
Clearance Interval				.05*	.05*	
TOTAL CAPACITY UTILIZATION				.86	.87	

383 . Lake Forest Dr. at Avenida Carlota/I-5 SB

ITAM 8.4-10 2030 FullNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	0	0	0		0	
NBT	4	6800	926	.15*	1547	.25*
NBR	0	0	62		166	
SBL	2	3400	400	.12*	364	.11*
SBT	3	5100	1075	.21	659	.13
SBR	f		406		650	
EBL	3	5100	754	.15	1393	.27
EBT	0.5	3400	400	{.27}*	568	.33*
EBR	1.5		605		365	.21
WBL	2	3400	189	.06*	224	.07*
WBT	0	0	0		0	
WBR	2	3400	331	.10	554	.16
Clearance Interval				.05*	.05*	
Note: Assumes E/W Split Phasing						
Note: Assumes Right-Turn Overlap for WBR						

TOTAL CAPACITY UTILIZATION .65 .81

390 . Paseo de Valencia at Avenida Carlota

ITAM 8.4-10 2030 FullNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	449	.13*	170	.05
NBT	1	1700	58	.03	156	.09*
NBR	1	1700	34	.02	195	.11
SBL	2.5		1433		1665	
SBT	1.5	6800	1249	.42*	1026	.41*
SBR	0		143		83	
EBL	2	3400	181	.05*	376	.11*
EBT	2	3400	143	.04	620	.18
EBR	1	1700	97	.06	607	.36
WBL	1	1700	11	.01	38	.02
WBT	2	3400	523	.15*	337	.10*
WBR	1	1700	449	.26	528	.31
Right Turn Adjustment					EBR	.10*
Clearance Interval				.05*	.05*	
Note: Assumes N/S Split Phasing						

TOTAL CAPACITY UTILIZATION .80 .86

432 . Alicia Pkwy. at Muirlands Bl.

ITAM 8.4-10 2030 FullNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	310	.09*	450	.13
NBT	3	5100	1642	.32	2245	.44*
NBR	1	1700	45	.03	203	.12
SBL	2	3400	147	.04	248	.07*
SBT	4	6800	1938	.31*	1821	.29
SBR	0	0	147		172	
EBL	2	3400	111	.03*	170	.05
EBT	2	3400	339	.10	820	.24*
EBR	1	1700	428	.25	481	.28
WBL	2	3400	138	.04	131	.04*
WBT	2	3400	684	.20*	490	.14
WBR	1	1700	351	.21	258	.15
Clearance Interval				.05*	.05*	
Note: Assumes Right-Turn Overlap for EBR						

TOTAL CAPACITY UTILIZATION .68 .84

423 . Muirlands Bl. at Los Alisos Bl.

ITAM 8.4-10 2030 FullNitm (LAKE FOREST ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	241	.07	131	.04*
NBT	2	3400	1306	.38*	577	.17
NBR	1	1700	214	.13	241	.14
SBL	2	3400	233	.07*	503	.15
SBT	2	3400	349	.14	836	.30*
SBR	0	0	129		198	
EBL	2	3400	266	.08*	227	.07
EBT	3	5100	774	.15	1777	.35*
EBR	1	1700	90	.05	263	.15
WBL	2	3400	391	.12	321	.09*
WBT	3	5100	1370	.27*	1001	.20
WBR	d	1700	249	.15	226	.13
Clearance Interval				.05*	.05*	
TOTAL CAPACITY UTILIZATION				.85	.83	

424 . Los Alisos Bl. at Rockfield Bl./Fordview St.

ITAM 8.4-10 2030 FullNitm (LAKE FOREST ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	337	.10*	350	.10
NBT	2	3400	949	.28	1570	.46*
NBR	0	0	10		10	
SBL	1	1700	10	.01	10	.01*
SBT	2	3400	1062	.31*	1020	.30
SBR	1	1700	633	.37	290	.17
EBL	1.5		211		700	
EBT	0.5	3400	90	.09*	50	.22*
EBR	1	1700	198	.12	420	.25
WBL	0	0	20		20	
WBT	1	1700	110	.08*	70	.05*
WBR	d	1700	40	.02	20	.01
Clearance Interval				.05*	.05*	
Note: Assumes E/W Split Phasing						
TOTAL CAPACITY UTILIZATION				.63	.79	

ITAM 8.4-10 2030 FullNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	115	.03*	248	.07*
NBT	2	3400	41	.01	248	.07
NBR	d	1700	65	.04	94	.06
SBL	1	1700	253	.15	110	.06
SBT	1	1700	363	.21*	110	.06*
SBR	2	3400	436	.13	280	.08
EBL	2	3400	134	.04	401	.12*
EBT	3	5100	1987	.39*	1386	.27
EBR	1	1700	309	.18	153	.09
WBL	2	3400	150	.04*	107	.03
WBT	3	5100	1723	.34	2312	.45*
WBR	1	1700	65	.04	251	.15
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.72		.75

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Post-2030 Without NITM Improvements

123 . Jamboree Rd. at Tustin Ranch Rd.

ITAM 8.4-10 P30 NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	1	1700	189	.11*	65	.04
NBT	2	3400	660	.19	2246	.66*
NBR	1	1700	32	.02	5	.00
SBL	1	1700	26	.02	3	.00
SBT	2	3400	2290	.67*	865	.25
SBR	1	1700	288	.17	135	.08
EBL	2	3400	111	.03*	224	.07*
EBT	1	1700	17	.01	3	.00
EBR	1	1700	43	.03	35	.02
WBL	1	1700	0	.00	0	.00
WBT	1	1700	0	.00*	0	.00*
WBR	1	1700	0	.00	0	.00
Clearance Interval				.05*	.05*	

TOTAL CAPACITY UTILIZATION .86 .78

125 . Jamboree Rd. at Irvine Bl.

ITAM 8.4-10 P30 NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	246	.07*	478	.14
NBT	3	5100	278	.05	1218	.24*
NBR	1	1700	126	.07	416	.24
SBL	2	3400	719	.21	253	.07*
SBT	3	5100	1711	.34*	584	.11
SBR	f		229		73	
EBL	2	3400	158	.05*	384	.11*
EBT	3	5100	1145	.22	1345	.26
EBR	1	1700	297	.17	262	.15
WBL	2	3400	422	.12	355	.10
WBT	3	5100	1814	.36*	1633	.32*
WBR	d	1700	205	.12	492	.29
Clearance Interval				.05*	.05*	

TOTAL CAPACITY UTILIZATION .87 .79

224 . Culver Dr. at Walnut Av.

ITAM 8.4-10 P30 NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	170	.05*	357	.11
NBT	3	5100	768	.15	1648	.32*
NBR	1	1700	292	.17	335	.20
SBL	2	3400	271	.08	377	.11*
SBT	3	5100	1975	.39*	1474	.29
SBR	1	1700	474	.28	299	.18
EBL	2	3400	359	.11*	611	.18*
EBT	2	3400	618	.18	510	.15
EBR	1	1700	243	.14	139	.08
WBL	2	3400	456	.13	380	.11
WBT	2	3400	748	.22*	706	.21*
WBR	1	1700	285	.17	254	.15
Clearance Interval				.05*	.05*	
Note: Assumes Right-Turn Overlap for NBR						

TOTAL CAPACITY UTILIZATION .82 .87

228 . Culver Dr. at Barranca Pkwy.

ITAM 8.4-10 P30 NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	135	.04*	281	.08
NBT	3	5100	718	.14	1729	.34*
NBR	1	1700	357	.21	380	.22
SBL	2	3400	370	.11	293	.09*
SBT	3	5100	2164	.42*	1203	.24
SBR	f		307		225	
EBL	2	3400	469	.14	349	.10*
EBT	2	3400	926	.27*	727	.21
EBR	1	1700	213	.13	474	.28
WBL	2	3400	377	.11*	274	.08
WBT	2	3400	799	.24	764	.22*
WBR	d	1700	145	.09	342	.20
Clearance Interval				.05*	.05*	

TOTAL CAPACITY UTILIZATION .89 .80

235 . Culver Dr. at University Dr.

ITAM 8.4-10 P30 NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL V/C	PM PK HOUR VOL V/C		
NBL	1	1700	9 .01*	70 .04		
NBT	4	6800	1523 .22	1766 .26*		
NBR	d	1700	402 .24	936 .55		
SBL	1	1700	28 .02	29 .02*		
SBT	4	6800	1376 .25*	1222 .23		
SBR	0	0	329	325		
EBL	2	3400	49 .01	395 .12		
EBT	3	5100	592 .12*	1025 .21*		
EBR	0	0	18	26		
WBL	2	3400	749 .22*	812 .24*		
WBT	3	5100	1324 .27	705 .15		
WBR	0	0	30	59		
Right Turn Adjustment Clearance Interval				NBR	.11*	.05*
TOTAL CAPACITY UTILIZATION			.65	.89		

288 . Jeffrey Rd. at Walnut Av./I-5 SB Ramps

ITAM 8.4-10 P30 NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL V/C	PM PK HOUR VOL V/C		
NBL	2	3400	167 .05*	291 .09		
NBT	3	5100	928 .18	1894 .37*		
NBR	1	1700	172 .10	223 .13		
SBL	2	3400	673 .20	373 .11*		
SBT	3	5100	2005 .45*	1142 .34		
SBR	0	0	303	865 .51		
EBL	2	3400	123 .04	287 .08		
EBT	1	1700	444 .26*	244 .14*		
EBR	1	1700	372 .22	290 .17		
WBL	2	3400	312 .09*	708 .21*		
WBT	1	1700	89 .05	154 .09		
WBR	1	1700	208 .12	279 .16		
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION			.90	.88		

289 . Jeffrey Rd. at ICD

ITAM 8.4-10 P30 NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL V/C	PM PK HOUR VOL V/C		
NBL	2	3400	172 .05*	309 .09		
NBT	3	5100	771 .15	1706 .33*		
NBR	1	1700	299 .18	316 .19		
SBL	2	3400	577 .17	368 .11*		
SBT	3	5100	1945 .38*	1425 .28		
SBR	1	1700	541 .32	285 .17		
EBL	2	3400	211 .06	328 .10*		
EBT	3	5100	1403 .28*	856 .17		
EBR	f		319	216		
WBL	2	3400	266 .08*	280 .08		
WBT	3	5100	787 .15	1656 .32*		
WBR	1	1700	249 .15	656 .39		
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION			.84	.91		

290 . Jeffrey Rd. at Barranca Pkwy.

ITAM 8.4-10 P30 NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR	PM PK HOUR		
			VOL	V/C	VOL	V/C
NBL	2	3400	254	.07*	276	.08*
NBT	3	5100	1120	.27	1683	.36
NBR	0	0	259		134	
SBL	2	3400	148	.04	122	.04
SBT	3	5100	2026	.47*	1485	.34*
SBR	0	0	382		260	
EBL	2	3400	197	.06	430	.13*
EBT	2	3400	852	.25*	834	.25
EBR	d	1700	272	.16	257	.15
WBL	2	3400	181	.05*	238	.07
WBT	2	3400	645	.19	704	.21*
WBR	1	1700	103	.06	127	.07
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.89		.81

293 . Jeffrey Rd. at I-405 NB Ramps

ITAM 8.4-10 P30 NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR	PM PK HOUR		
			VOL	V/C	VOL	V/C
NBL	0	0	0		0	
NBT	3	5100	1624	.32	2160	.42*
NBR	f		330		110	
SBL	0	0	0		0	
SBT	3	5100	2049	.40*	1590	.31
SBR	f		1330		600	
EBL	0	0	0		0	
EBT	0	0	0		0	
EBR	0	0	0		0	
WBL	2	3400	1151	.34*	1380	.41*
WBT	0	0	0		0	
WBR	1	1700	366	.22	540	.32
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.79		.88

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310 . Sand Canyon. Av. at Alton Pkwy.

ITAM 8.4-10 P30 NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	246	.07	224	.07*
NBT	3	5100	1441	.28*	798	.16
NBR	1	1700	795	.47	159	.09
SBL	2	3400	284	.08*	90	.03
SBT	3	5100	933	.18	1325	.26*
SBR	1	1700	141	.08	253	.15
EBL	2	3400	221	.07	160	.05
EBT	3	5100	660	.13*	731	.14*
EBR	1	1700	339	.20	299	.18
WBL	2	3400	268	.08*	745	.22*
WBT	3	5100	633	.12	792	.16
WBR	1	1700	98	.06	251	.15
Right Turn Adjustment			NBR	.13*		
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.75	.74	

311 . Sand Canyon. Av. at I-405 NB Ramps

ITAM 8.4-10 P30 NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	0	0	0		0	
NBT	2	3400	1902	.56*	888	.26
NBR	f		640		370	
SBL	0	0	0		0	
SBT	2	3400	447	.13	1015	.30*
SBR	f		1200		1360	
EBL	0	0	0		0	
EBT	0	0	0		0	
EBR	0	0	0		0	
WBL	0.5		63		215	
WBT	0	3400	0	.20*	0	{.14}*
WBR	1.5		618		312	
Clearance Interval				.05*	.05*	
TOTAL CAPACITY UTILIZATION				.81	.49	

327 . Barranca Pkwy. at Technology

ITAM 8.4-10 P30 NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	623	.18*	126	.04
NBT	2	3400	817	.24	656	.19*
NBR	1	1700	370	.22	269	.16
SBL	1	1700	99	.06	356	.21*
SBT	2	3400	577	.17*	1007	.30
SBR	1	1700	327	.19	86	.05
EBL	2	3400	86	.03*	235	.07
EBT	2	3400	271	.08	435	.13*
EBR	d	1700	126	.07	530	.31
WBL	2	3400	38	.01	453	.13*
WBT	2	3400	429	.13*	218	.06
WBR	d	1700	157	.09	179	.11
Right Turn Adjustment					EBR	.10*
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.56	.81	

344 . Alton Pkwy. at Technology Dr. W.

ITAM 8.4-10 P30 NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	857	.25*	619	.18*
NBT	3	5100	1856	.36	939	.18
NBR	1	1700	739	.43	125	.07
SBL	1	1700	69	.04	32	.02
SBT	4	6800	1273	.19*	2012	.30*
SBR	1	1700	192	.11	292	.17
EBL	1	1700	182	.11*	457	.27*
EBT	2	3400	112	.03	83	.02
EBR	2	3400	240	.07	1230	.36
WBL	2	3400	67	.02	883	.26
WBT	2	3400	71	.02*	149	.04*
WBR	d	1700	13	.01	26	.02
Right Turn Adjustment					EBR	.13*
Clearance Interval						.05*
Note: Assumes Right-Turn Overlap for EBR						

TOTAL CAPACITY UTILIZATION .62 .97

345 . Alton Pkwy. at I-5 NB Ramps

ITAM 8.4-10 P30 NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	0	0	0		0	
NBT	3	5100	2659	.52*	1456	.29
NBR	f		80		600	
SBL	0	0	0		0	
SBT	3	5100	1299	.25	2154	.42*
SBR	f		260		1290	
EBL	0	0	0		0	
EBT	0	0	0		0	
EBR	0	0	0		0	
WBL	1.5		574		166	.05*
WBT	0	5100	0	.23*	0	
WBR	1.5		577		154	{.00}
Clearance Interval					.05*	.05*

TOTAL CAPACITY UTILIZATION .80 .52

348 . Alton Pkwy. at ICD

ITAM 8.4-10 P30 NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	57	.02*	40	.01
NBT	3	5100	594	.12	670	.13*
NBR	1	1700	160	.09	272	.16
SBL	2	3400	224	.07	944	.28*
SBT	3	5100	851	.17*	764	.15
SBR	1	1700	355	.21	153	.09
EBL	2	3400	222	.07*	435	.13*
EBT	3	5100	527	.10	1124	.22
EBR	1	1700	11	.01	31	.02
WBL	2	3400	377	.11	185	.05
WBT	3	5100	1129	.22*	978	.19*
WBR	1	1700	814	.48	325	.19
Right Turn Adjustment				WBR	.21*	
Clearance Interval						.05*

TOTAL CAPACITY UTILIZATION .74 .78

362 . Bake Pkwy. at Irvine Bl.

ITAM 8.4-10 P30 NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	1	1700	559	.33*	239	.14
NBT	3	5100	1767	.38	1272	.37*
NBR	0	0	152		705	.41
SBL	2	3400	28	.01	150	.04*
SBT	3	5100	1028	.20*	1214	.24
SBR	1	1700	483	.28	1063	.63
EBL	2	3400	776	.23*	728	.21*
EBT	3	5100	310	.06	1085	.21
EBR	1	1700	278	.16	487	.29
WBL	2	3400	673	.20	420	.12
WBT	3	5100	1008	.20*	647	.13*
WBR	d	1700	47	.03	71	.04
Right Turn Adjustment					SBR	.20*
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION			1.01		1.00	

368 . Bake Pkwy. at I-5 SB Ramps

ITAM 8.4-10 P30 NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	0	0	0		0	
NBT	3	5100	1373	.27*	1950	.38*
NBR	0	0	0		0	
SBL	0	0	0		0	
SBT	3	5100	926	.18	1430	.28
SBR	f		370		898	
EBL	3	5100	2507	.49*	2159	.42*
EBT	0	0	0		0	
EBR	1	1700	514	.30	274	.16
WBL	0	0	0		0	
WBT	0	0	0		0	
WBR	0	0	0		0	
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION			.81		.85	

378 . Lake Forest Dr. at Jeronimo Rd.

ITAM 8.4-10 P30 NoNitm (LAKE FOREST ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL V/C	PM PK HOUR VOL V/C		
NBL	1	1700	96 .06*	64 .04		
NBT	3	5100	789 .15	1782 .35*		
NBR	1	1700	147 .09	308 .18		
SBL	1	1700	215 .13	114 .07*		
SBT	3	5100	1437 .28*	1105 .22		
SBR	1	1700	362 .21	194 .11		
EBL	1	1700	83 .05	168 .10		
EBT	2	3400	308 .13*	788 .25*		
EBR	0	0	121	66		
WBL	1	1700	432 .25*	248 .15*		
WBT	2	3400	672 .28	293 .11		
WBR	0	0	269	90		
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION			.77		.87	

379 . Lake Forest Dr. at Muirlands Bl.

ITAM 8.4-10 P30 NoNitm (LAKE FOREST ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL V/C	PM PK HOUR VOL V/C		
NBL	2	3400	44 .01*	121 .04		
NBT	3	5100	723 .14	1554 .30*		
NBR	1	1700	131 .08	575 .34		
SBL	2	3400	64 .02	160 .05*		
SBT	3	5100	1885 .37*	1156 .23		
SBR	1	1700	201 .12	124 .07		
EBL	2	3400	71 .02*	539 .16		
EBT	2	3400	316 .09	1173 .35*		
EBR	1	1700	82 .05	168 .10		
WBL	2	3400	475 .14	313 .09*		
WBT	2	3400	873 .26*	314 .09		
WBR	1	1700	123 .07	113 .07		
Clearance Interval				.05*		.05*
Note: Assumes Right-Turn Overlap for EBR						
TOTAL CAPACITY UTILIZATION			.71		.84	

380 . Lake Forest Dr. at Rockfield Bl.

ITAM 8.4-10 P30 NoNitm (LAKE FOREST ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL V/C	PM PK HOUR VOL V/C		
NBL	2	3400	552 .16*	627 .18		
NBT	3	5100	1173 .23	1977 .39*		
NBR	1	1700	173 .10	306 .18		
SBL	2	3400	169 .05	187 .06*		
SBT	4	6800	2194 .34*	1287 .21		
SBR	0	0	118	108		
EBL	2	3400	59 .02*	255 .08		
EBT	2	3400	185 .05	846 .25*		
EBR	2	3400	225 .07	270 .08		
WBL	2	3400	412 .12	521 .15*		
WBT	2	3400	827 .24*	305 .09		
WBR	1	1700	143 .08	243 .14		
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION			.81		.90	

387 . Ridge Route Dr. at Rockfield Bl.

ITAM 8.4-10 P30 NoNitm (LAKE FOREST ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL V/C	PM PK HOUR VOL V/C		
NBL	1	1700	334 .20*	295 .17*		
NBT	2	3400	199 .06	711 .21		
NBR	d	1700	287 .17	447 .26		
SBL	1	1700	57 .03	57 .03		
SBT	2	3400	503 .15*	403 .12*		
SBR	d	1700	120 .07	52 .03		
EBL	1	1700	50 .03	108 .06		
EBT	2	3400	228 .11*	1436 .50*		
EBR	0	0	132	250		
WBL	1	1700	488 .29*	347 .20*		
WBT	2	3400	681 .21	505 .16		
WBR	0	0	34	42		
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION			.80		1.04	

387 . Ridge Route Dr. at Rockfield Bl.

ITAM 8.4-10 P30 NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL V/C	PM PK HOUR VOL V/C		
NBL	1	1700	146 .09*	136 .08		
NBT	2	3400	196 .06	454 .13*		
NBR	d	1700	88 .05	140 .08		
SBL	1	1700	181 .11	184 .11*		
SBT	2	3400	330 .10*	244 .07		
SBR	d	1700	290 .17	183 .11		
EBL	1	1700	94 .06*	325 .19*		
EBT	2	3400	404 .14	897 .30		
EBR	0	0	81	128		
WBL	1	1700	80 .05	109 .06		
WBT	2	3400	638 .22*	691 .28*		
WBR	0	0	101	260		
Right Turn Adjustment			SBR .02*			
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION			.54	.76		

390 . Paseo de Valencia at Avenida Carlota

ITAM 8.4-10 P30 NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL V/C	PM PK HOUR VOL V/C		
NBL	2	3400	399 .12*	170 .05		
NBT	1	1700	57 .03	186 .11*		
NBR	1	1700	26 .02	184 .11		
SBL	2	3400	1468 .43	1774 .52*		
SBT	2	3400	1285 .43*	1131 .36		
SBR	0	0	170	93		
EBL	2	3400	206 .06*	440 .13*		
EBT	2	3400	129 .04	577 .17		
EBR	1	1700	88 .05	584 .34		
WBL	1	1700	8 .00	30 .02		
WBT	2	3400	447 .13*	270 .08*		
WBR	1	1700	418 .25	503 .30		
Right Turn Adjustment					EBR .07*	
Clearance Interval				.05*		.05*
Note: Assumes N/S Split Phasing						
TOTAL CAPACITY UTILIZATION			.79	.96		

396 . El Toro Rd. at Avenida Carlota

ITAM 8.4-10 P30 NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL V/C	PM PK HOUR VOL V/C		
NBL	0	0	0	0		
NBT	4	6800	1208 .18*	1566 .23*		
NBR	d	1700	46 .03	46 .03		
SBL	2	3400	165 .05*	275 .08*		
SBT	3	5100	727 .14	1053 .21		
SBR	1	1700	587 .35	593 .35		
EBL	1.5		851	946		
EBT	1.5	5100	519 .27*	1029 .39*		
EBR	1	1700	248 .15	383 .23		
WBL	1	1700	45 .03	64 .04		
WBT	1	1700	183 .11*	117 .07*		
WBR	1	1700	402 .24	548 .32		
Right Turn Adjustment			WBR .08*	WBR .17*		
Clearance Interval				.05*		.05*
Note: Assumes E/W Split Phasing						
Note: Assumes Right-Turn Overlap for SBR WBR						
TOTAL CAPACITY UTILIZATION			.74	.99		

407 . Laguna Canyon Rd at Bake Pkwy.

ITAM 8.4-10 P30 NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	0	0	0		0	
NBT	2	3400	2247	.66*	1490	.44*
NBR	d	1700	99	.06	140	.08
SBL	1	1700	302	.18*	481	.28*
SBT	3	5100	1324	.26	1858	.36
SBR	0	0	0		0	
EBL	0	0	0		0	
EBT	0	0	0		0	
EBR	0	0	0		0	
WBL	1.5		129	.08*	136	.04*
WBT	0	5100	0		0	
WBR	1.5		649	.19	404	.12
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.97		.81

420 . El Toro Rd. at Jeronimo Rd.

ITAM 8.4-10 P30 NoNitm (LAKE FOREST ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	1	1700	133	.08	83	.05
NBT	3	5100	1669	.33*	1967	.39*
NBR	1	1700	264	.16	279	.16
SBL	1	1700	426	.25*	196	.12*
SBT	3	5100	1749	.34	1189	.23
SBR	d	1700	164	.10	406	.24
EBL	1	1700	152	.09*	311	.18*
EBT	2	3400	259	.11	605	.23
EBR	0	0	131		162	
WBL	2	3400	565	.17	298	.09
WBT	2	3400	772	.23*	521	.15*
WBR	1	1700	127	.07	351	.21
Clearance Interval				.05*		.05*
Note: Assumes Right-Turn Overlap for NBR						
TOTAL CAPACITY UTILIZATION				.95		.89

423 . Muirlands Bl. at Los Alisos Bl.

ITAM 8.4-10 P30 NoNitm (LAKE FOREST ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	1	1700	227	.13	146	.09
NBT	2	3400	1294	.38*	576	.17*
NBR	1	1700	179	.11	238	.14
SBL	1	1700	209	.12*	456	.27*
SBT	2	3400	382	.16	875	.33
SBR	0	0	158		230	
EBL	1	1700	264	.16*	251	.15
EBT	3	5100	771	.15	1766	.35*
EBR	1	1700	95	.06	262	.15
WBL	1	1700	374	.22	313	.18*
WBT	3	5100	1245	.24*	914	.18
WBR	d	1700	291	.17	253	.15
Clearance Interval				.05*	.05*	
TOTAL CAPACITY UTILIZATION				.95	1.02	

424 . Los Alisos Bl. at Rockfield Bl./Fordview St.

ITAM 8.4-10 P30 NoNitm (LAKE FOREST ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	1	1700	381	.22*	394	.23*
NBT	2	3400	954	.28	1716	.51
NBR	0	0	10		10	
SBL	1	1700	10	.01	10	.01
SBT	2	3400	957	.47*	974	.37*
SBR	0	0	629		276	
EBL	1.5		216		604	
EBT	0.5	3400	90	.09*	50	.19*
EBR	1	1700	213	.13	466	.27
WBL	0	0	20		20	
WBT	1	1700	110	.08*	70	.05*
WBR	d	1700	40	.02	20	.01
Clearance Interval				.05*	.05*	
Note: Assumes E/W Split Phasing						
TOTAL CAPACITY UTILIZATION				.91	.89	

ITAM 8.4-10 P30 NoNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK	HOUR	PM PK	HOUR
			VOL	V/C	VOL	V/C
NBL	2	3400	136	.04*	244	.07
NBT	2	3400	49	.01	298	.09*
NBR	d	1700	66	.04	78	.05
SBL	1	1700	288	.17	105	.06*
SBT	1	1700	416	.24*	129	.08
SBR	2	3400	581	.17	336	.10
EBL	1	1700	178	.10	530	.31*
EBT	3	5100	1940	.38*	1257	.25
EBR	1	1700	300	.18	173	.10
WBL	2	3400	117	.03*	98	.03
WBT	3	5100	1467	.29	2280	.45*
WBR	1	1700	63	.04	302	.18
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.74		.96

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Post-2030 With Existing (Built/Under Construction) NITM Improvements

222 . Culver Dr. at Trabuco Rd.

ITAM 8.4-10 P30 BuiltNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	0	0	0		0	
NBT	3	5100	576	.11*	1891	.37*
NBR	f		1104		1481	
SBL	1	1700	661	.39*	343	.20*
SBT	3	5100	2448	.48	1276	.25
SBR	f		710		179	
EBL	0	0	0		0	
EBT	0	0	0		0	
EBR	0	0	0		0	
WBL	2	3400	713	.21*	538	.16*
WBT	0	0	0		0	
WBR	2	3400	797	.23	891	.26
Clearance Interval				.05*	.05*	
TOTAL CAPACITY UTILIZATION				.76	.78	

223 . Culver Dr. at I-5 SB Ramps

ITAM 8.4-10 P30 BuiltNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	0	0	0		0	
NBT	3	5100	1229	.24	1956	.38*
NBR	f		240		300	
SBL	0	0	0		0	
SBT	3	5100	2233	.44*	1504	.29
SBR	f		340		270	
EBL	3	5100	561	.11*	1124	.22*
EBT	0	0	0		0	
EBR	2	3400	367	.11	896	.26
WBL	0	0	0		0	
WBT	0	0	0		0	
WBR	0	0	0		0	
Clearance Interval				.05*	.05*	
TOTAL CAPACITY UTILIZATION				.60	.65	

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302 . Sand Canyon. Av. at Trabuco Pkwy.

ITAM 8.4-10 P30 BuiltNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	204	.06*	685	.20
NBT	3	5100	485	.10	2063	.40*
NBR	f		243		481	
SBL	2	3400	325	.10	391	.12*
SBT	3	5100	2315	.45*	801	.16
SBR	1	1700	87	.05	158	.09
EBL	2	3400	147	.04	162	.05
EBT	3	5100	345	.07*	500	.10*
EBR	f		647		208	
WBL	2	3400	489	.14*	394	.12*
WBT	3	5100	752	.15	438	.09
WBR	d	1700	321	.19	389	.23
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.77		.79

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321 . Laguna Canyon Rd. at Old Laguna Cyn. Rd.

ITAM 8.4-10 P30 BuiltNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	2	3400	656	.19	186	.05*
NBT	3	5100	4125	.81*	3194	.63
NBR	1	1700	17	.01	70	.04
SBL	2	3400	12	.00	30	.01
SBT	3	5100	2469	.48	3289	.64*
SBR	1	1700	342	.20	272	.16
EBL	3	5100	226	.04*	228	.04
EBT	1	1700	12	.01	60	.04*
EBR	f		103		609	
WBL	1	1700	69	.04	37	.02*
WBT	2	3400	103	.03*	31	.01
WBR	d	1700	49	.03	22	.01
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.93		.80

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422 . Los Alisos Bl. at Jeromino Rd.

ITAM 8.4-10 P30 BuiltNitm (LAKE FOREST ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	1	1700	185	.11*	144	.08
NBT	3	5100	724	.14	1540	.30*
NBR	1	1700	283	.17	368	.22
SBL	1	1700	268	.16	261	.15*
SBT	3	5100	1431	.28*	1052	.21
SBR	1	1700	461	.27	127	.07
EBL	2	3400	170	.05*	409	.12
EBT	2	3400	589	.17	1083	.32*
EBR	1	1700	241	.14	278	.16
WBL	2	3400	258	.08	179	.05*
WBT	2	3400	1294	.38*	509	.15
WBR	1	1700	157	.09	271	.16
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.87		.87

432 . Alicia Pkwy. at Muirlands Bl.

ITAM 8.4-10 P30 BuiltNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	296	.09	423	.12
NBT	3	5100	1593	.31*	2216	.43*
NBR	1	1700	43	.03	200	.12
SBL	1	1700	146	.09*	258	.15*
SBT	4	6800	1862	.30	1785	.29
SBR	0	0	146		172	
EBL	1	1700	113	.07*	165	.10
EBT	2	3400	341	.10	792	.23*
EBR	1	1700	415	.24	437	.26
WBL	1	1700	133	.08	128	.08*
WBT	2	3400	678	.20*	485	.14
WBR	1	1700	354	.21	269	.16
Clearance Interval				.05*	.05*	
Note: Assumes Right-Turn Overlap for EBR						
TOTAL CAPACITY UTILIZATION				.72	.94	

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Post-2030 With Committed Improvements

ITAM 8.4-10 P30 CommNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	1	1700	121	.07	205	.12
NBT	3	5100	910	.18*	1744	.34*
NBR	1	1700	186	.11	140	.08
SBL	2	3400	1655	.49*	629	.19*
SBT	3	5100	1860	.36	1147	.22
SBR	d	1700	384	.23	204	.12
EBL	2	3400	119	.04*	316	.09
EBT	1	1700	152	.09	241	.14*
EBR	d	1700	107	.06	84	.05
WBL	2	3400	66	.02	189	.06*
WBT	1	1700	206	.12*	81	.05
WBR	f		353		1510	
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.88		.78

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ITAM 8.4-10 P30 FullNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	HOUR V/C	PM PK HOUR VOL	HOUR V/C
NBL	2	3400	275	.08*	791	.23*
NBT	3	5100	421	.08	1208	.24
NBR	f		115		223	
SBL	2	3400	279	.08	212	.06
SBT	3	5100	1391	.27*	647	.13*
SBR	f		693		803	
EBL	2.5		602	.18	714	.21
EBT	2.5	8500	1486	.29*	1155	.23*
EBR	1	1700	833	.49	392	.23
WBL	2	3400	316	.09	171	.05
WBT	3	5100	1362	.27*	1856	.36*
WBR	1	1700	237	.14	308	.18
Right Turn Adjustment			EBR	.12*		
Clearance Interval				.05*		.05*
Note: Assumes E/W Split Phasing						
Note: Assumes Right-Turn Overlap for EBR						

TOTAL CAPACITY UTILIZATION 1.08 1.00

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358 . ICD at Enterprise Dr.

ITAM 8.4-10 P30 CommNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	0	0	0		0	
NBT	3	5100	2858	.56*	1655	.32
NBR	f		438		1032	
SBL	1	1700	12	.01*	98	.06
SBT	3	5100	924	.18	2027	.40*
SBR	f		0		0	
EBL	0	0	0		0	
EBT	0	0	0		0	
EBR	0	0	0		0	
WBL	2	3400	36	.01*	223	.07*
WBT	0	0	0		0	
WBR	f		382		565	
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.63		.52

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359 . ICD at I-405 SB Ramps

ITAM 8.4-10 P30 CommNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	0	0	0		0	
NBT	4	6800	2172	.32*	1789	.26
NBR	f		70		90	
SBL	0	0	0		0	
SBT	3	5100	692	.14	1723	.34*
SBR	f		280		430	
EBL	3	5100	1018	.20*	711	.14*
EBT	0	0	0		0	
EBR	f		978		687	
WBL	0	0	0		0	
WBT	0	0	0		0	
WBR	0	0	0		0	
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.57		.53

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406 . Laguna Canyon Rd. at Lake Forest Dr.

ITAM 8.4-10 P30 CommNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	0	0	0		0	
NBT	4	6800	2924	.43*	1915	.28
NBR	1	1700	123	.07	89	.05
SBL	3	5100	737	.14*	803	.16
SBT	3	5100	1558	.31	2244	.44*
SBR	0	0	0		0	
EBL	0	0	0		0	
EBT	0	0	0		0	
EBR	0	0	0		0	
WBL	2	3400	122	.04*	164	.05*
WBT	0	0	0		0	
WBR	f		1376		1265	
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.66		.54

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423 . Muirlands Bl. at Los Alisos Bl.

ITAM 8.4-10 P30 CommNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK	HOUR	PM PK	HOUR
			VOL	V/C	VOL	V/C
NBL	2	3400	257	.08	130	.04*
NBT	2	3400	968	.28*	534	.16
NBR	1	1700	154	.09	216	.13
SBL	2	3400	158	.05*	366	.11
SBT	2	3400	540	.21	880	.33*
SBR	0	0	172		244	
EBL	2	3400	310	.09*	268	.08
EBT	3	5100	830	.16	1388	.27*
EBR	1	1700	180	.11	263	.15
WBL	2	3400	319	.09	227	.07*
WBT	3	5100	1120	.22*	816	.16
WBR	d	1700	241	.14	208	.12
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.69		.76

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Post-2030 With NITM (Partial or Full as Noted) NITM Improvements

34 . Red Hill Av. at Irvine Blvd.

ITAM 8.4-10 P30 FullNitm (TUSTIN ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	2	3400	207	.06*	535	.16*
NBT	1	1700	101	.06	200	.12
NBR	1	1700	12	.01	38	.02
SBL	2	3400	152	.04	113	.03
SBT	2	3400	300	.09*	149	.04*
SBR	d	1700	76	.04	66	.04
EBL	1	1700	72	.04*	137	.08*
EBT	3	5100	1597	.38	2205	.49
EBR	0	0	334		307	
WBL	1	1700	232	.14	126	.07
WBT	3	5100	2847	.57*	2809	.57*
WBR	0	0	47		94	
Clearance Interval				.05*	.05*	
TOTAL CAPACITY UTILIZATION				.81	.90	

91 . Tustin Ranch Rd. at Irvine Bl.

ITAM 8.4-10 P30 FullNitm (TUSTIN ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	2	3400	228	.07*	473	.14
NBT	3	5100	391	.08	878	.17*
NBR	1	1700	211	.12	321	.19
SBL	1	1700	291	.17	203	.12*
SBT	3	5100	1181	.23*	522	.10
SBR	f		838		397	
EBL	2	3400	237	.07*	585	.17*
EBT	3	5100	1150	.23	1565	.31
EBR	1	1700	443	.26	222	.13
WBL	2	3400	349	.10	136	.04
WBT	3	5100	2098	.41*	1970	.39*
WBR	1	1700	194	.11	417	.25
Clearance Interval				.05*	.05*	
TOTAL CAPACITY UTILIZATION				.83	.90	

235 . Culver Dr. at University Dr.

ITAM 8.4-10 P30 FullNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	9	.00	70	.02
NBT	4	6800	1523	.22*	1766	.26*
NBR	2	3400	402	.12	936	.28
SBL	2	3400	28	.01*	29	.01*
SBT	4	6800	1376	.20	1222	.18
SBR	d	1700	329	.19	325	.19
EBL	2	3400	49	.01	395	.12
EBT	3	5100	592	.12*	1025	.20*
EBR	d	1700	18	.01	26	.02
WBL	2	3400	749	.22*	812	.24*
WBT	3	5100	1324	.27	705	.15
WBR	0	0	30		59	
Clearance Interval				.05*	.05*	
Note: Assumes Right-Turn Overlap for NBR						
TOTAL CAPACITY UTILIZATION			.62	.76		

249 . Yale Av. at Irvine Bl.

ITAM 8.4-10 P30 FullNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	1	1700	98	.06	233	.14*
NBT	2	3400	194	.06*	273	.08
NBR	d	1700	148	.09	154	.09
SBL	2	3400	423	.12*	274	.08
SBT	2	3400	352	.10	142	.04*
SBR	d	1700	266	.16	95	.06
EBL	1	1700	149	.09*	335	.20*
EBT	3	5100	1463	.30	1632	.33
EBR	0	0	79		33	
WBL	1	1700	240	.14	164	.10
WBT	3	5100	2070	.42*	2102	.45*
WBR	0	0	57		192	
Clearance Interval				.05*	.05*	
TOTAL CAPACITY UTILIZATION			.74	.88		

289 . Jeffrey Rd. at ICD

ITAM 8.4-10 P30 FullNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	172	.05*	309	.09*
NBT	4	6800	771	.11	1706	.25
NBR	1	1700	299	.18	316	.19
SBL	3	5100	577	.11	368	.07
SBT	4	6800	1945	.37*	1425	.25*
SBR	0	0	541		285	
EBL	2	3400	211	.06	328	.10*
EBT	3	5100	1403	.28*	856	.17
EBR	f		319		216	
WBL	2	3400	266	.08*	280	.08
WBT	4	6800	787	.12	1656	.24*
WBR	1	1700	249	.15	656	.39
Right Turn Adjustment					WBR	.08*
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION			.83		.81	

291 . Jeffrey Rd. at Alton Pkwy.

ITAM 8.4-10 P30 FullNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	436	.13*	583	.17
NBT	3	5100	1160	.23	1513	.30*
NBR	1	1700	236	.14	275	.16
SBL	2	3400	430	.13	545	.16*
SBT	3	5100	1938	.38*	1332	.26
SBR	d	1700	200	.12	222	.13
EBL	2	3400	268	.08	338	.10*
EBT	3	5100	679	.13*	950	.19
EBR	d	1700	584	.34	372	.22
WBL	2	3400	547	.16*	456	.13
WBT	2	3400	648	.19	845	.25*
WBR	d	1700	116	.07	168	.10
Right Turn Adjustment					EBR	.11*
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION			.96		.86	

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303 . Sand Canyon. Av. at I-5 NB Ramps

ITAM 8.4-10 P30 FullNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	HOUR V/C	PM PK HOUR VOL	HOUR V/C
NBL	2	3400	234	.07*	691	.20
NBT	4	6800	1151	.17	2832	.42*
NBR	d	1700	730	.43	879	.52
SBL	2	3400	374	.11	206	.06*
SBT	4	6800	3398	.50*	1414	.21
SBR	1	1700	350	.21	259	.15
EBL	1.5		154		372	.11*
EBT	1.5	5100	266	.08*	126	.07
EBR	2	3400	332	.10	232	.07
WBL	2	3400	381	.11*	584	.17
WBT	1.5	5100	166	{.05}	640	{.20}*
WBR	1.5		295		436	
Clearance Interval				.05*	.05*	
Note: Assumes E/W Split Phasing						

TOTAL CAPACITY UTILIZATION .81 .84

305 . Sand Canyon. Av. at I-5 SB Ramps

ITAM 8.4-10 P30 FullNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	HOUR V/C	PM PK HOUR VOL	HOUR V/C
NBL	0	0	0		0	
NBT	4	6800	1389	.20	3793	.56*
NBR	d	1700	89	.05	298	.18
SBL	2	3400	569	.17	492	.14*
SBT	4	6800	3435	.51*	1746	.26
SBR	0	0	0		0	
EBL	2.5		721	.21*	507	.10*
EBT	0	6800	2		0	
EBR	1.5		1105	.33	334	{.00}
WBL	0	0	0		0	
WBT	0	0	0		0	
WBR	0	0	0		0	
Right Turn Adjustment			EBR	.12*		
Clearance Interval				.05*	.05*	

TOTAL CAPACITY UTILIZATION .89 .85

321 . Laguna Canyon Rd. at Old Laguna Cyn. Rd.

ITAM 8.4-10 P30 FullNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR	V/C	PM PK HOUR	V/C
NBL	3	5100	656	.13	186	.04*
NBT	3	5100	4125	.81*	3194	.63
NBR	1	1700	17	.01	70	.04
SBL	2	3400	12	.00	30	.01
SBT	3	5100	2469	.48	3289	.64*
SBR	1	1700	342	.20	272	.16
EBL	3	5100	226	.04*	228	.04
EBT	1	1700	12	.01	60	.04*
EBR	f		103		609	
WBL	1	1700	69	.04	37	.02*
WBT	2	3400	103	.03*	31	.01
WBR	d	1700	49	.03	22	.01
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.93		.79

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327 . Barranca Pkwy. at Technology

ITAM 8.4-10 P30 FullNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR	V/C	PM PK HOUR	V/C
NBL	2	3400	623	.18*	126	.04*
NBT	2	3400	817	.24	656	.19
NBR	1	1700	370	.22	269	.16
SBL	2	3400	99	.03	356	.10
SBT	2	3400	577	.17*	1007	.30*
SBR	1	1700	327	.19	86	.05
EBL	1	1700	86	.05*	235	.14
EBT	1.5	5100	271	.08	435	{.18}*
EBR	1.5		126		530	
WBL	2	3400	38	.01	453	.13*
WBT	2	3400	429	.13*	218	.06
WBR	d	1700	157	.09	179	.11
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.58		.70

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344 . Alton Pkwy. at Technology Dr. W.

ITAM 8.4-10 P30 FullNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	857	.25*	619	.18*
NBT	3	5100	1856	.36	939	.18
NBR	1	1700	739	.43	125	.07
SBL	1	1700	69	.04	32	.02
SBT	4	6800	1273	.19*	2012	.30*
SBR	1	1700	192	.11	292	.17
EBL	1.5		182		457	.13*
EBT	1.5	5100	112	.06*	83	.05
EBR	2	3400	240	.07	1230	.36
WBL	2.5		67	.02	883	.17*
WBT	1.5	6800	71	.02*	149	.09
WBR	d	1700	13	.01	26	.02
Right Turn Adjustment			NBR	.01*	EBR	.05*
Clearance Interval				.05*		.05*
Note: Assumes E/W Split Phasing						
Note: Assumes Right-Turn Overlap for EBR						
TOTAL CAPACITY UTILIZATION				.58	.88	

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362 . Bake Pkwy. at Irvine Bl.

ITAM 8.4-10 P30 PartNitm NB (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR	VOL	V/C	PM PK HOUR
NBL	2	3400	559	.16		239
NBT	3	5100	1767	.38*		1272
NBR	0	0	152			705
SBL	2	3400	28	.01*		150
SBT	3	5100	1028	.20		1214
SBR	1	1700	483	.28		1063
EBL	2	3400	776	.23*		728
EBT	3	5100	310	.06		1085
EBR	1	1700	278	.16		487
WBL	2	3400	673	.20		420
WBT	3	5100	1008	.20*		647
WBR	1	1700	47	.03		71
Right Turn Adjustment						SBR
Clearance Interval				.05*		
TOTAL CAPACITY UTILIZATION				.87		.93

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362 . Bake Pkwy. at Irvine Bl.

ITAM 8.4-10 P30 FullNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	559	.16	239	.07
NBT	3	5100	1767	.38*	1272	.37*
NBR	0	0	152		705	.41
SBL	2	3400	28	.01*	150	.04*
SBT	3	5100	1028	.20	1214	.24
SBR	1	1700	483	.28	1063	.63
EBL	2	3400	776	.23*	728	.21
EBT	2.5	6800	310	{.06}	1085	{.21}*
EBR	1.5		278	{.02}	487	{.16}
WBL	2	3400	673	.20	420	.12*
WBT	4	6800	1008	.15*	647	.10
WBR	d	1700	47	.03	71	.04
Right Turn Adjustment					SBR	.12*
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.82		.91

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364 . Bake Pkwy. at Jeronimo Rd.

ITAM 8.4-10 P30 PartNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	498	.15*	90	.03*
NBT	3	5100	2467	.48	2356	.46
NBR	d	1700	97	.06	523	.31
SBL	1	1700	66	.04	32	.02
SBT	3	5100	2124	.42*	2356	.46*
SBR	d	1700	125	.07	33	.02
EBL	2	3400	11	.00	71	.02
EBT	2	3400	27	.01*	235	.07*
EBR	1	1700	52	.03	224	.13
WBL	1	1700	377	.22*	129	.08*
WBT	2	3400	579	.19	167	.07
WBR	0	0	66		83	
Right Turn Adjustment					EBR	.04*
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.85		.73

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378 . Lake Forest Dr. at Jeronimo Rd.

ITAM 8.4-10 P30 FullNitm (LAKE FOREST ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	1	1700	96	.06*	64	.04
NBT	3	5100	789	.15	1782	.35*
NBR	1	1700	147	.09	308	.18
SBL	2	3400	215	.06	114	.03*
SBT	3	5100	1437	.28*	1105	.22
SBR	1	1700	362	.21	194	.11
EBL	1	1700	83	.05	168	.10
EBT	2	3400	308	.09*	788	.23*
EBR	1	1700	121	.07	66	.04
WBL	1	1700	432	.25*	248	.15*
WBT	2	3400	672	.20	293	.09
WBR	1	1700	269	.16	90	.05
Clearance Interval				.05*		.05*

TOTAL CAPACITY UTILIZATION .73 .81

380 . Lake Forest Dr. at Rockfield Bl.

ITAM 8.4-10 P30 FullNitm (LAKE FOREST ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	2	3400	552	.16*	627	.18
NBT	3	5100	1173	.23	1977	.39*
NBR	1	1700	173	.10	306	.18
SBL	2	3400	169	.05	187	.06*
SBT	4	6800	2194	.34*	1287	.21
SBR	0	0	118		108	
EBL	2	3400	59	.02*	255	.08
EBT	2	3400	185	.05	846	.25*
EBR	2	3400	225	.07	270	.08
WBL	3	5100	412	.08	521	.10*
WBT	2	3400	827	.29*	305	.16
WBR	0	0	143		243	
Clearance Interval				.05*		.05*

TOTAL CAPACITY UTILIZATION .86 .85

387 . Ridge Route Dr. at Rockfield Bl.

ITAM 8.4-10 P30 FullNitm (LAKE FOREST ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	1.5		334		295	.17
NBT	1.5	5100	199	.10*	711	.21*
NBR	d	1700	287	.17	447	.26
SBL	1.5		57	.03	57	.03
SBT	1.5	5100	503	.15*	403	.12*
SBR	d	1700	120	.07	52	.03
EBL	1	1700	50	.03	108	.06
EBT	2	3400	228	.11*	1436	.50*
EBR	0	0	132		250	
WBL	1	1700	488	.29*	347	.20*
WBT	2	3400	681	.21	505	.16
WBR	0	0	34		42	
Clearance Interval				.05*		.05*
Note: Assumes N/S Split Phasing						

TOTAL CAPACITY UTILIZATION .70 1.08

420 . El Toro Rd. at Jeronimo Rd.

ITAM 8.4-10 P30 FullNitm (LAKE FOREST ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	1	1700	133	.08	83	.05
NBT	4	6800	1669	.28*	1967	.33*
NBR	0	0	264		279	
SBL	2	3400	426	.13*	196	.06*
SBT	4	6800	1749	.28	1189	.23
SBR	0	0	164		406	.24
EBL	1	1700	152	.09*	311	.18*
EBT	2	3400	259	.11	605	.23
EBR	0	0	131		162	
WBL	2	3400	565	.17	298	.09
WBT	2	3400	772	.23*	521	.15*
WBR	1	1700	127	.07	351	.21
Right Turn Adjustment					WBR	.01*
Clearance Interval				.05*		.05*

TOTAL CAPACITY UTILIZATION .78 .78

ITAM 8.4-10 P30 FullNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	V/C	PM PK HOUR VOL	V/C
NBL	0	0	0		0	
NBT	4	6800	846	.13*	1441	.24*
NBR	0	0	62		177	
SBL	2	3400	342	.10*	255	.08*
SBT	3	5100	998	.20	571	.11
SBR	f		413		693	
EBL	3	5100	697	.14	1264	.25
EBT	0.5	3400	402	{.30}*	591	.35*
EBR	1.5		662		467	.27
WBL	2	3400	157	.05*	233	.07*
WBT	0	0	0		0	
WBR	2	3400	232	.07	405	.12
Clearance Interval				.05*		.05*
Note: Assumes E/W Split Phasing						
Note: Assumes Right-Turn Overlap for WBR						
TOTAL CAPACITY UTILIZATION				.63		.79

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390 . Paseo de Valencia at Avenida Carlota

ITAM 8.4-10 P30 FullNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	399	.12*	170	.05
NBT	1	1700	57	.03	186	.11*
NBR	1	1700	26	.02	184	.11
SBL	2.5		1468		1774	
SBT	1.5	6800	1285	.43*	1131	.44*
SBR	0		170		93	
EBL	2	3400	206	.06*	440	.13*
EBT	2	3400	129	.04	577	.17
EBR	1	1700	88	.05	584	.34
WBL	1	1700	8	.00	30	.02
WBT	2	3400	447	.13*	270	.08*
WBR	1	1700	418	.25	503	.30
Right Turn Adjustment					EBR	.07*
Clearance Interval				.05*		.05*
Note: Assumes N/S Split Phasing						
TOTAL CAPACITY UTILIZATION				.79		.88

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407 . Laguna Canyon Rd at Bake Pkwy.

ITAM 8.4-10 P30 FullNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	0	0	0		0	
NBT	3	5100	2247	.44*	1490	.29*
NBR	d	1700	99	.06	140	.08
SBL	1	1700	302	.18*	481	.28*
SBT	3	5100	1324	.26	1858	.36
SBR	0	0	0		0	
EBL	0	0	0		0	
EBT	0	0	0		0	
EBR	0	0	0		0	
WBL	1.5		129	.08*	136	.04*
WBT	0	5100	0		0	
WBR	1.5		649	.19	404	.12
Clearance Interval				.05*	.05*	
TOTAL CAPACITY UTILIZATION				.75	.66	

432 . Alicia Pkwy. at Muirlands Bl.

ITAM 8.4-10 P30 FullNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	296	.09*	423	.12
NBT	3	5100	1593	.31	2216	.43*
NBR	1	1700	43	.03	200	.12
SBL	2	3400	146	.04	258	.08*
SBT	4	6800	1862	.30*	1785	.29
SBR	0	0	146		172	
EBL	2	3400	113	.03*	165	.05
EBT	2	3400	341	.10	792	.23*
EBR	1	1700	415	.24	437	.26
WBL	2	3400	133	.04	128	.04*
WBT	2	3400	678	.20*	485	.14
WBR	1	1700	354	.21	269	.16
Clearance Interval				.05*	.05*	
Note: Assumes Right-Turn Overlap for EBR						
TOTAL CAPACITY UTILIZATION				.67	.83	

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423 . Muirlands Bl. at Los Alisos Bl.

ITAM 8.4-10 P30 FullNitm (LAKE FOREST ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	PM PK HOUR V/C	AM PK HOUR VOL	PM PK HOUR V/C
NBL	2	3400	227	.07	146	.04*
NBT	2	3400	1294	.38*	576	.17
NBR	1	1700	179	.11	238	.14
SBL	2	3400	209	.06*	456	.13
SBT	2	3400	382	.16	875	.33*
SBR	0	0	158		230	
EBL	2	3400	264	.08*	251	.07
EBT	3	5100	771	.15	1766	.35*
EBR	1	1700	95	.06	262	.15
WBL	2	3400	374	.11	313	.09*
WBT	3	5100	1245	.24*	914	.18
WBR	d	1700	291	.17	253	.15
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.81		.86

424 . Los Alisos Bl. at Rockfield Bl./Fordview St.

ITAM 8.4-10 P30 FullNitm (LAKE FOREST ISEC)						
	LANES	CAPACITY	AM PK HOUR VOL	PM PK HOUR V/C	AM PK HOUR VOL	PM PK HOUR V/C
NBL	2	3400	381	.11*	394	.12
NBT	2	3400	954	.28	1716	.51*
NBR	0	0	10		10	
SBL	1	1700	10	.01	10	.01*
SBT	2	3400	957	.28*	974	.29
SBR	1	1700	629	.37	276	.16
EBL	1.5		216		604	
EBT	0.5	3400	90	.09*	50	.19*
EBR	1	1700	213	.13	466	.27
WBL	0	0	20		20	
WBT	1	1700	110	.08*	70	.05*
WBR	d	1700	40	.02	20	.01
Right Turn Adjustment			SBR	.02*		
Clearance Interval				.05*		.05*
Note: Assumes E/W Split Phasing						
TOTAL CAPACITY UTILIZATION				.63		.81

558 . 0 St. at Irvine Bl.

ITAM 8.4-10 P30 FullNitm (IRVINE ISEC)						
	LANES	CAPACITY	AM PK HOUR		PM PK HOUR	
			VOL	V/C	VOL	V/C
NBL	2	3400	136	.04*	244	.07
NBT	2	3400	49	.01	298	.09*
NBR	d	1700	66	.04	78	.05
SBL	1	1700	288	.17	105	.06*
SBT	1	1700	416	.24*	129	.08
SBR	2	3400	581	.17	336	.10
EBL	2	3400	178	.05	530	.16*
EBT	3	5100	1940	.38*	1257	.25
EBR	1	1700	300	.18	173	.10
WBL	2	3400	117	.03*	98	.03
WBT	3	5100	1467	.29	2280	.45*
WBR	1	1700	63	.04	302	.18
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.74		.81

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APPENDIX C

Updated NITM Improvement Cost Estimates

- **C-1: Price Index for Selected Highway Construction Items**
- **C-2: Updated 2010 Improvement Costs**
- **C-3: Updated 2011 Improvement Costs**
- **C-4: Updated 2012 Improvement Costs**
- **C-5: Trabuco / ETC Right-of-Way Costs**

C-1:

Price Index for Selected Highway Construction Items

PLANNING AREA 30 AND 51 2011 GPA/ZC Cost Update Methodology Analysis

1.31.13

The following is an outline of the methodology that will be used to update the NITM improvements costs from 2010 to 2012.

Update 2010 Improvement Costs: The 2010 Improvement Costs for the List of NITM Improvements from the PA 40 Fee Re-Allocation Study will be updated based on the corrected Caltrans Construction Index (CCI) published 10/25/10.

- The 2010 improvement costs calculated in the PA 40 Re-Allocation Study were based on a first quarter 2010 CCI of 238.3 (Dated 4/21/10). However, Caltrans later corrected this value and revised it to 222.9 (Revised 10/25/10). Therefore, Step 1 would be to decrease the 2010 construction improvement costs by 6.5%. This would then be considered the Revised 2010 Improvement costs for future adjustments.

Update Improvement Costs for 2011: The Improvement Costs calculated in above will be updated based on the 2011 CCI and 2011 right-of-way costs. Beginning in the third quarter of 2010, the CCI published by Caltrans will only be reported based on the 2007 Base Line Fisher Formula. Using this new base line and formula, the CCI for the first quarter of 2010 is 78.5. The CCI for the first quarter of 2011 as published by Caltrans (dated 4/20/11) is 76.2. This is a decrease of 2.9% from the first quarter of 2010. Therefore, the Revised 2010 construction cost estimates (calculated in Step 1) will be decreased by 2.9% and right-of-way will be increased by 5% according to the NITM Ordinance to reflect the 2011 NITM Improvement program costs.

Update Improvement Costs for 2012: The Improvement Costs calculated above will be updated based on the 2012 CCI and 2012 right-of-way costs according to the NITM Ordinance. The CCI for the first quarter of 2012 as published by Caltrans (dated 4/19/2012) is 82.9. This is an increase of 8.8% from the first quarter of 2011 reported at 76.2. Therefore, the 2011 construction cost estimates (calculated in Step 2) will be increased by 8.8% and the right-of-way will be increased by 5% according to the NITM Ordinance to reflect the 2012 NITM Improvement program cost.

EXHIBIT A

**Price Index for Selected
Highway Construction Items
1987 = 100**

<u>YEAR</u>	<u>QTRLY</u>	<u>LAST 12 Months</u>	<u>Annual</u>
1972	.....	.....	30.0
1973	.....	.....	31.2
1974	.....	.....	45.6
1975	.....	.....	46.7
1976	.....	.....	47.7
1977	.....	.....	53.7
1978	.....	.....	62.1
1979	.....	.....	80.1
1980	.....	.....	82.1
1981	.....	.....	90.6
1982	.....	.....	81.3
1983	.....	.....	81.9
1984	.....	.....	93.3
1985	.....	.....	92.7
1986	.....	.....	95.0
1987	.....	.....	100.0
1988	.....	.....	104.4
1989	.....	.....	111.3
1990	.....	.....	113.5
1991	.....	.....	108.2
1992	.....	.....	106.8
1993	.....	.....	113.1
1994	.....	.....	119.0
1995	.....	.....	115.0
1996	.....	.....	119.2
1997	.....	.....	124.8
1998	.....	.....	128.6
1999	.....	.....	139.2
2000	.....	.....	146.2
2001	.....	.....	154.1
2002	.....	.....	142.2
2003	.....	.....	148.6
2004	.....	.....	216.2
2005	.....	.....	268.3
2006	.....	.....	280.6
2007	(1st Quarter)	363.9	335.3
2007	(2nd Quarter)	401.4	341.2
2007	(3rd Quarter)	262.2	309.9
2007	(4th Quarter)	208.5	
	(Year)		261.1
2008	(1st Quarter)	243.6	249.3
2008	(2nd Quarter)	250.8	235.7
2008	(3rd Quarter)	318.4	241.1
2008	(4th Quarter)	226.9	
	(Year)		252.7
2009	(1st Quarter)	276.5	258.2
2009	(2nd Quarter)	195.3	253.3
2009	(3rd Quarter)	301.4	250.2
2009	(4th Quarter)	204.6	
	(Year)		220.5
2010	(1st Quarter)	346.1	238.3
2010	(2nd Quarter)	235.4	236.1

EXHIBIT A

Price Index for Selected
Highway Construction Items
1987 = 100

<u>YEAR</u>	<u>QTRLY</u>	<u>LAST 12 Months</u>	<u>Annual</u>
1972	.....	.....	30.0
1973	.....	.....	31.2
1974	.....	.....	45.6
1975	.....	.....	46.7
1976	.....	.....	47.7
1977	.....	.....	53.7
1978	.....	.....	62.1
1979	.....	.....	80.1
1980	.....	.....	82.1
1981	.....	.....	90.6
1982	.....	.....	81.3
1983	.....	.....	81.9
1984	.....	.....	93.3
1985	.....	.....	92.7
1986	.....	.....	95.0
1987	.....	.....	100.0
1988	.....	.....	104.4
1989	.....	.....	111.3
1990	.....	.....	113.5
1991	.....	.....	108.2
1992	.....	.....	106.8
1993	.....	.....	113.1
1994	.....	.....	119.0
1995	.....	.....	115.0
1996	.....	.....	119.2
1997	.....	.....	124.8
1998	.....	.....	128.6
1999	.....	.....	139.2
2000	.....	.....	146.2
2001	.....	.....	154.1
2002	.....	.....	142.2
2003	.....	.....	148.6
2004	.....	.....	216.2
2005	.....	.....	268.3
2006	.....	.....	280.6
2007	(1st Quarter)	363.9	335.3
2007	(2nd Quarter)	401.4	341.2
2007	(3rd Quarter)	262.2	309.9
2007	(4th Quarter)	208.5	
	(Year)		261.1
2008	(1st Quarter)	243.6	249.3
2008	(2nd Quarter)	250.8	235.7
2008	(3rd Quarter)	318.4	241.1
2008	(4th Quarter)	226.9	
	(Year)		252.7
2009	(1st Quarter)	276.5	258.2
2009	(2nd Quarter)	195.3	253.3
2009	(3rd Quarter)	301.4	250.2
2009	(4th Quarter)	204.6	
	(Year)		220.5
2010	(1st Quarter)	346.1	222.9*
2010	(2nd Quarter)	235.4	230.1*

*Revised.

EXHIBIT A

**Price Index for Selected
Highway Construction Items
2007 = 100, Fisher formula**

<u>YEAR</u>	<u>QTRLY</u>	<u>LAST 12 Months</u>	<u>Annual</u>
1972			11.3
1973			11.4
1974			17.2
1975			17.2
1976			16.5
1977			19.8
1978			22.6
1979			29.3
1980			30.1
1981			34.4
1982			30.9
1983			31.0
1984			36.2
1985			36.0
1986			37.3
1987			39.7
1988			40.5
1989			43.9
1990			44.1
1991			40.4
1992			40.4
1993			42.2
1994			46.2
1995			45.0
1996			45.6
1997			47.6
1998			49.9
1999			52.9
2000			53.5
2001			58.7
2002			53.1
2003			56.6
2004			79.1
2005			98.1
2006			104.1
2007			100.0
2008			95.0
2009	(1st Quarter)	98.1	95.5
2009	(2nd Quarter)	74.5	92.0
2009	(3rd Quarter)	88.4	80.4
2009	(4th Quarter)	74.3	
	(Year)		78.4
2010	(1st Quarter)	101.5	78.5
2010	(2nd Quarter)	79.3	79.1
2010	(3rd Quarter)	72.1	76.2
2010	(4th Quarter)	76.7	
	(Year)		76.8
2011	(1st Quarter)	86.4	76.2
2011	(2nd Quarter)	85.2	78.9
2011	(3rd Quarter)	85.8	81.7
2011	(4th Quarter)	81.4	
	(Year)		84.0
2012	(1st Quarter)	81.1	82.9
2012	(2nd Quarter)	84.6	81.3
2012	(3rd Quarter)	76.4	79.3
2012	(4th Quarter)	82.8	
	(Year)		79.2

C-2:

Updated 2010 Improvement Costs

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2010* COST ESTIMATES**

Location: #34. Red Hill Ave at Irvine Blvd
Mitigation: + Apply ATMS

Date: 6/11/2012
Estimated by: City
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
Construction (2003)			\$65,000
California Highway Price Index	74.1%	CCI 2003 --> 2008	\$48,165
2008 CONSTRUCTION SUBTOTAL			\$113,165
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$4,000
CONSTRUCTION SUBTOTAL			\$117,165
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$9,000
CONSTRUCTION SUBTOTAL			\$108,165
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$7,000
CONSTRUCTION SUBTOTAL			\$101,165
Preliminary Project Development (10% of total Construction cost)			\$10,000
Design Engineering/Administration Costs (15% of total Construction cost)			\$15,000
Construction Engineering Costs/Administration (15% of total Construction cost)			\$15,000
Contingency (20% of total Construction cost)			\$20,000
TOTAL PROJECT COSTS			\$161,165

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2010* COST ESTIMATES**

Location: #91. Tusting Ranch Rd & Irvine Blvd
Mitigation: + Apply ATMS

Date: 6/11/2012
Estimated by: City
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
Construction (2003)			\$65,000
California Highway Price Index Increase	74.1%	CCI 2003 --> 2008	\$48,165
2008 CONSTRUCTION SUBTOTAL			\$113,165
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$4,000
CONSTRUCTION SUBTOTAL			\$117,165
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$9,000
CONSTRUCTION SUBTOTAL			\$108,165
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$7,000
CONSTRUCTION SUBTOTAL			\$101,165
Preliminary Project Development (10% of total Construction cost)			\$10,000
Design Engineering/Administration Costs (15% of total Construction cost)			\$15,000
Construction Engineering Costs/Administration (15% of total Construction cost)			\$15,000
Contingency (20% of total Construction cost)			\$20,000
TOTAL PROJECT COSTS			\$161,165

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #123. Jamboree Rd at Tustin Ranch Rd
Mitigation: + Add 3rd NB and SB T lanes

Date: 6/11/2012
Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$2,000
2 Clear & Grub	\$12200 / AC	0.0	\$0
3 Earthwork	\$46.00 / CY	0	\$0
4 Remove Striping	\$13.00 / LF	0.5	\$0
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	0	\$0
14 Relocate Street Light	\$5,700.00 / EA	0	\$0
15 Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	0	\$0
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$2.00 / LF	0.5	\$0
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$2,000
54 SWPPP Plan and Implementation	6%	1	\$0
CONSTRUCTION SUBTOTAL			\$4,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$144
CONSTRUCTION SUBTOTAL			\$4,144
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$319
CONSTRUCTION SUBTOTAL			\$3,825
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$249
CONSTRUCTION SUBTOTAL			\$3,576
Right-of-Way	\$71.66 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$3,576
Preliminary Project Development (10% of total Construction Cost)			\$1,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$1,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$1,000
Contingency (20% of total Construction Cost)			\$1,000
TOTAL PROJECT COSTS			\$7,576

* Notes:

- A. This intersection is a portion of a Segment 2, improvement of Jamboree Rd to six lanes from Portola Pkwy to north of Tustin Ranch Rd.
- B. Only restriping costs are included here. For the remainder of the construction costs, refer to the Segment 2 cost estimate.

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #125. Jamboree Rd at Irvine Blvd
Mitigation: + Convert SB Free RT lane to 4th T lane

Date: 6/11/2012
Originally Estimated by: RBF, PBS&J
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$67,000
2	Clear & Grub	\$12200 / AC	0.2	\$2,000
3	Earthwork	\$46.00 / CY	325	\$15,000
4	Remove Striping	\$13.00 / LF	300	\$4,000
5	Remove Curb & Gutter	\$36.00 / LF	650	\$23,000
6	Remove Median Curb	\$37.00 / LF	100	\$4,000
7	Remove PCC Sidewalk	\$5.00/ SF	4,100	\$21,000
8	Remove Pavement	\$5.00 / SF	600	\$3,000
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	2	\$3,000
13	Sawcut	\$1.25 / LF	400	\$1,000
14	Relocate Street Light	\$5,700.00 / EA	2	\$11,000
15	Relocate Traffic Signal System	\$225,000.00 / EA	0.50	\$113,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	2	\$0
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	2	\$20,000
22	Relocate Fire Hydrant	\$5,000.00 / EA	2	\$10,000
23	Relocate Bus Bench	\$1,458.00/ EA	1	\$1,000
24	Relocate Monument Wall	\$6,100.00 / EA	1	\$6,000
25	Relocate Utility Boxes	\$895.00 / EA	2	\$2,000
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	2	\$20,000
28	Adjust Manhole to Grade	\$1,500.00 / EA	2	\$3,000
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	2	\$1,000
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	2	\$1,000
32	Modify Driveway	\$6,100.00 / LS	2	\$12,000
33	Construct PCC Pavement	\$7.50 / SF	2,640	\$20,000
34	Construct AC Pavement	\$6.00 / SF	3,780	\$23,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$2.00 / LF	1,000	\$2,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	650	\$12,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	2,000	\$26,000
44	Construct PCC Sidewalk	\$9.05 / SF	4,000	\$36,000
45	Construct Wheelchair Ramp	\$5,200.00 / EA	6	\$31,000
46	Construct Retaining Wall	\$114 / SF	900	\$103,000
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$42,000
54	SWPPP Plan and Implementation	6%	1	\$34,000
	CONSTRUCTION SUBTOTAL			\$672,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$24,000
	CONSTRUCTION SUBTOTAL			\$696,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$54,000
	CONSTRUCTION SUBTOTAL			\$642,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$42,000
	CONSTRUCTION SUBTOTAL			\$600,000
	Right-of-Way	\$35.19 / SF	1,360	\$48,000
	Right-of-Way Management	5%		\$2,000
	RIGHT-OF-WAY SUBTOTAL			\$50,000
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$650,000
	Preliminary Project Development (10% of total Construction Cost)			\$60,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$90,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$90,000
	Contingency (20% of total Construction Cost)			\$120,000
	TOTAL PROJECT COSTS			\$1,010,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2009 COST ESTIMATES**

9/16/2010

Location: 222. Culver Drive/Trabuco Road

Date: January 2008

Mitigation: Add 3rd NBT, add WB lane to convert WB approach to dual left and right

Actual Bid

Item No.		Item Description	QUANTITY	UNIT	Unit Price	Cost
1	(S)	Traffic Control System	1	LS	\$100,000.00	\$100,000.00
2	(S)	Construction Area Signs	1	LS	\$15,000.00	\$15,000.00
3		Construction Site Management	1	LS	\$5,000.00	\$5,000.00
4		Prepare Water Pollution Control Plan	1	LS	\$1,300.00	\$1,300.00
5		Temporary Fence (Type ESA)	270	LF	\$8.00	\$2,160.00
6		Temporary Erosion Control Blanket	470	SQYD	\$8.00	\$3,760.00
7		Temporary Drainage Inlet Protection	5	EA	\$400.00	\$2,000.00
8		Street Sweeping	1	LS	\$28,000.00	\$28,000.00
9		Temporary Concrete Washout (Portable)	1	LS	\$3,200.00	\$3,200.00
10		Develop Water Supply	1	LS	\$7,000.00	\$7,000.00
11		Lead Compliance Plan	1	LS	\$1,700.00	\$1,700.00
12		Clearing and Grubbing	1	LS	\$21,000.00	\$21,000.00
13		Roadway Excavation	7800	CY	\$25.00	\$195,000.00
14		Roadway Excavation (Type Z-2) (ADL)	320	CY	\$200.00	\$64,000.00
15		Imported Borrow	2700	CY	\$13.00	\$35,100.00
16		Asphalt Concrete (Type A)	720	TON	\$100.00	\$72,000.00
17		Aggregate Base (Class 2)	560	CY	\$90.00	\$50,400.00
18		Slurry Seal Type II	79000	SF	\$0.40	\$31,600.00
19		Remove Concrete Curb & Gutter	1630	LF	\$7.00	\$11,410.00
20		Remove Concrete Sidewalk and Island	12600	SF	\$1.00	\$12,600.00
21		Minor Concrete (Curbs, Gutters, Sidewalks, Curb Ramps, Islands, & Local Depressions)	280	CY	\$300.00	\$84,000.00
22		Reset Survey Monument	1	EA	\$1,800.00	\$1,800.00
23		Remove Drainage Facility	1	LS	\$4,500.00	\$4,500.00
24	(F)	Concrete Structures (Drainage)	30	CY	\$600.00	\$18,000.00
25		Slurry Cement Backfill	2	CY	\$300.00	\$600.00
26		12" Reinforced Concrete Pipe	35	LF	\$140.00	\$4,900.00
27		18" Reinforced Concrete Pipe	20	LF	\$140.00	\$2,800.00
28		24" Reinforced Concrete Pipe	10	LF	\$270.00	\$2,700.00
29		24" Corrugated Steel Pipe	5	LF	\$460.00	\$2,300.00
30		Adjust Manhole to Grade	1	EA	\$540.00	\$540.00
31		Drainage Inlet Marker	4	EA	\$300.00	\$1,200.00
32		Remove Roadside Sign	8	EA	\$50.00	\$400.00
33		Install Sign (Strap and Saddle Bracket Method)	5	EA	\$60.00	\$300.00
34		Roadside Sign (1 post)	8	EA	\$170.00	\$1,360.00
35		Roadside Sign (2 post)	3	EA	\$300.00	\$900.00
36		Furnish Sign	400	SF	\$30.00	\$12,000.00
37	(S)	Remove Striping	1	LS	\$7,000.00	\$7,000.00
38	(S)	Traffic Striping and Pavement Marking	1	LS	\$7,200.00	\$7,200.00
39		Object Marker (Type Q)	5	EA	\$60.00	\$300.00
40		Object Marker (Type K-1)	1	EA	\$60.00	\$60.00
41	(S)	Traffic Signal Modification	1	LS	\$80,000.00	\$80,000.00
42	(S)	Ramp Metering Conduit Installation	1	LS	\$42,000.00	\$42,000.00
43	(S)	Signal Interconnect Conduit Installation (City)	1	LS	\$240,000.00	\$240,000.00
44	(S-F)	Shotcrete	170	CY	\$600.00	\$102,000.00
45		Remove Slope Paving	1	LS	\$13,000.00	\$13,000.00
46		Structure Excavation (Tieback Wall)	330	CY	\$60.00	\$19,800.00
47		Structure Backfill (Tieback Wall)	20	CY	\$600.00	\$12,000.00
48	(S)	Tieback Anchors	180	EA	\$2,500.00	\$450,000.00
49	(F)	Structural Concrete, Retaining Wall	130	CY	\$1,300.00	\$169,000.00
50	(F)	Architectural Treatment (Fractured Fin)	3450	SF	\$11.00	\$37,950.00
51	(S-F)	Bar Reinforcing Steel (Retaining Wall)	41400	LB	\$1.50	\$62,100.00
52	(F)	Furnish Sign Structure (Bridge Mounted without Walkway)	550	LB	\$30.00	\$16,500.00
53	(F)	Install Sign Structure (Bridge Mounted without Walkway)	1	LS	\$12,000.00	\$12,000.00
54		Slope Paving (Concrete)	40	CY	\$600.00	\$24,000.00
55		Minor Concrete (Wall Gutter)	20	CY	\$400.00	\$8,000.00
56	(S)	Cable Railing	440	LF	\$18.00	\$7,920.00
57		Geocomposite Drain	950	SF	\$12.00	\$11,400.00
58	(S)	Highway Planting	1	LS	\$47,000.00	\$47,000.00
59	(S)	Irrigation System	1	LS	\$67,000.00	\$67,000.00
60	(S)	Plant Establishment Work	1	LS	\$12,000.00	\$12,000.00
61		Mobilization	1	LS	\$45,240.00	\$45,240.00
Construction Subtotal						\$2,294,000.00
Preliminary Project Development (Actual Expenditure)						\$173,145.00
Design Engineering/Administration (Actual Expenditure)						\$385,550.00
Right of Way Administration (Actual Expenditure)						\$510.89
Construction Engineering/Administration (15% of Construction Subtotal)						\$ 181,762.00
Construction Contingency (20% of Construction Subtotal)						\$ 156,597.00
Total Project Cost						\$3,191,564.89

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES
ENGINEER'S COST ESTIMATE
I-5/CULVER DRIVE INTERCHANGE PROJECT
CITY OF IRVINE PROJECT COST**

LOCATION: #223 - CULVER DRIVE AT I-5 SOUTHBOUND RAMPS
MITIGATION: IMPROVE EB APPROACH TO PROVIDE 3 LEFT-TURN LANES AND 2 RIGHT-TURN LANES

6/11/2012

Revised by: HA

Item No.	Item No.	Item Description	Unit of Measure	Unit Cost	Estimated Quantity	Item Cost
37	153153	Cold Plane Asphalt Concrete Pavement (45 mm Maximum)	m ²	\$11	993.28	\$10,926
38	153214	Remove Concrete Curb	m	\$200	4.096	\$819
39	153218	Remove Concrete Sidewalk	m ³	\$200	12.288	\$2,458
42	190101	Roadway Excavation	m ³	\$35	1751.04	\$61,286
46	198001	Import Borrow	m ³	\$15	919.04	\$13,786
47	198050	Embankment	m ³	\$50	222.72	\$11,136
56	208910A	Extend Irrigation Crossover	LS	\$2,500	Lump Sum	\$640
57	260201	Class 2 Aggregate Base	m ³	\$50	84.48	\$4,224
58	280000	Lean Concrete Base	m ³	\$200	220.9	\$44,180
59	390102	Asphalt Concrete (Type A)	tonne	\$90	320	\$28,800
60	390126	Rubberized Asphalt Concrete (Type G)	tonne	\$125	192	\$24,000
62	401066	Concrete Pavement (Ramp Termini)	m ³	\$300	56.4	\$16,920
64	510512A	1980 x 760 mm Precast Concrete Box Culvert	m	\$1,485	4.76	\$7,069
65 (F)	560218	Furnish Sign Structure (Truss)	kg	\$7.00	2464	\$17,248
66 (S-F)	560219	Install Sign Structure (Truss)	kg	\$1.00	2464	\$2,464
82	731656	Curb Ramp Detectable Warning Surface	m ²	\$500	0.4	\$179
89 (S)	840515	Thermoplastic Pavement Marking	m ²	\$40.00	17	\$666
90 (S)	840561	100 mm Thermoplastic Traffic Stripe	m	\$2.50	645	\$1,613
91	840563	200 mm Thermoplastic Traffic Stripe	m	\$3.00	207	\$622
92	840656	Paint Traffic Stripe (2-Coat)	m	\$2.00	376	\$753
93	850101	Pavement Marker (Non-Reflective)	EA	\$2.50	79	\$198
94	850111	Pavement Marker (Retroreflective)	EA	\$2.50	197	\$493
98	999990	Mobilization	LS	\$250,000	Lump Sum	\$64,000
SUBTOTAL ITEMS						\$314,479
California Highway Price Index			+3.6%	CCI 2008 --> 2009		\$11,000
CONSTRUCTION SUBTOTAL						\$325,479
California Highway Price Index			(7.7%)	CCI 2009 --> 2010		-\$25,000
CONSTRUCTION SUBTOTAL						\$300,479
California Highway Price Index			(6.5%)	CCI 2010 --> 2010*		-\$20,000
CONSTRUCTION SUBTOTAL						\$280,479
SUPPLEMENTAL ITEMS						
99	66070	Maintain Traffic	LS	\$10,000	Lump Sum	\$2,560
103	66610	Partnering	LS	\$5,000	Lump Sum	\$1,280
104	66861	Maintain Existing and Temporary Electrical System	LS	\$10,000	Lump Sum	\$2,560
SUBTOTAL ITEMS						\$6,400
Contingency (5%)						\$14,024
Caltrans oversight						\$26,397
SUBTOTAL						\$327,300
Contingency (10%)*						\$32,730
Construction Engineering Costs/Administration (5% of total Construction/RW cost)						\$16,365
TOTAL PROJECT COSTS						\$376,395

* Caltrans cooperation agreement states that City obligation could be more than \$363,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #224. Culver Drive & Walnut Ave
Mitigation: + Apply ATMS

Date: 6/11/2012
Estimated by: PM
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
Construction			\$65,000
California Highway Price Index Increase	74.1%	CCI 2003 --> 2008	\$48,165
2008 CONSTRUCTION SUBTOTAL			\$113,165
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$4,000
CONSTRUCTION SUBTOTAL			\$117,165
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$9,000
CONSTRUCTION SUBTOTAL			\$108,165
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$7,000
CONSTRUCTION SUBTOTAL			\$101,165
Preliminary Project Development (10% of total Construction cost)			\$10,000
Design Engineering/Administration Costs (15% of total Construction cost)			\$15,000
Construction Engineering Costs/Administration (15% of total Construction cost)			\$15,000
Contingency (20% of total Construction cost)			\$20,000
TOTAL PROJECT COSTS			\$161,165

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #235, Culver Dr at University Dr

Date: 6/11/2012

Mitigation: + Convert NB de-Facto RT lane to dual RT lanes

Originally Estimated by: RBF, PBS&J

+ Add EB de-Facto RT lane, SB de-Facto RT lane and 2nd NB & SB LT lanes

Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$270,000
2	Clear & Grub	\$12200 / AC	0.36	\$4,000
3	Earthwork	\$46.00 / CY	4,530	\$208,000
4	Remove Striping	\$13.00 / LF	5,500	\$72,000
5	Remove Curb & Gutter	\$36.00 / LF	2,800	\$101,000
6	Remove Median Curb	\$37.00 / LF	2,150	\$80,000
7	Remove PCC Sidewalk	\$5.00 / SF	12,000	\$60,000
8	Remove Pavement	\$5.00 / SF	12,950	\$65,000
9	Remove Channel	\$19.00 / LF	40	\$1,000
10	Remove/Replace Chain Link Fence	\$31.00 / LF	300	\$9,000
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	86	\$112,000
13	Sawcut	\$1.25 / LF	4,850	\$6,000
14	Relocate Street Light	\$5,700.00 / EA	8	\$46,000
15	Relocate Traffic Signal System	\$225,000.00 / EA	1.00	\$225,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	10	\$2,000
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	2	\$20,000
22	Relocate Fire Hydrant	\$5,000.00 / EA	3	\$15,000
23	Relocate Bus Bench	\$1,458.00/ EA	3	\$4,000
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	35	\$31,000
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	2	\$20,000
28	Adjust Manhole to Grade	\$1,500.00 / EA	14	\$21,000
29	Adjust Water Meter	\$610.00 / EA	8	\$5,000
30	Adjust Water Valve	\$610.00 / EA	7	\$4,000
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	10	\$6,000
32	Modify Driveway	\$6,100.00 / LS	3	\$18,000
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	22,300	\$134,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	110,000	\$44,000
37	Construct Striping & Marking	\$2.00 / LF	5,500	\$11,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	2,800	\$53,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	2,150	\$67,000
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	2,800	\$36,000
44	Construct PCC Sidewalk	\$9.05 / SF	12,000	\$109,000
45	Construct Wheelchair Ramp	\$5,200.00 / EA	4	\$21,000
46	Construct Retaining Wall	\$114 / SF	4,000	\$456,000
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	100	\$55,000
49	Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$170,000
54	SWPPP Plan and Implementation	0.06	1	\$137,000
	CONSTRUCTION SUBTOTAL			\$2,698,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$97,000
	CONSTRUCTION SUBTOTAL			\$2,795,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$215,000
	CONSTRUCTION SUBTOTAL			\$2,580,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$168,000
	CONSTRUCTION SUBTOTAL			\$2,412,000
	Right-of-Way	\$44.10 / SF	5,400	\$238,000
	Right-of-Way Management	5%		\$12,000
	RIGHT-OF-WAY SUBTOTAL			\$250,000
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$2,662,000
	Preliminary Project Development (10% of total Construction Cost)			\$242,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$362,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$362,000
	Contingency (20% of total Construction Cost)			\$483,000
	TOTAL PROJECT COSTS			\$4,111,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #249. Yale Ave and Irvine Blvd
Mitigation: + Add 2nd SB LT lane

Date: 6/11/2012
Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$212,000
2 Clear & Grub	\$12200 / AC	0.4	\$5,000
3 Earthwork	\$46.00 / CY	7,556	\$348,000
4 Remove Striping	\$13.00 / LF	4,500	\$59,000
5 Remove Curb & Gutter	\$36.00 / LF	2,070	\$75,000
6 Remove Median Curb	\$37.00 / LF	925	\$34,000
7 Remove PCC Sidewalk	\$5.00 / SF	10,350	\$52,000
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	21	\$27,000
13 Sawcut	\$1.25 / LF	1,950	\$2,000
14 Relocate Street Light	\$5,700.00 / EA	2	\$11,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	0.75	\$169,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	1	\$1,000
17 Relocate Sign (1 post)	\$220.00 / EA	5	\$1,000
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	4	\$20,000
23 Relocate Bus Bench	\$1,458.00/ EA	1	\$1,000
24 Relocate Monument Wall	\$6,100.00 / EA	1	\$6,000
25 Relocate Utility Boxes	\$895.00 / EA	10	\$9,000
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	5	\$8,000
29 Adjust Water Meter	\$610.00 / EA	1	\$1,000
30 Adjust Water Valve	\$610.00 / EA	1	\$1,000
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	9	\$5,000
32 Modify Driveway	\$6,100.00 / LS	2	\$12,000
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	18,400	\$110,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	52,000	\$21,000
37 Construct Striping & Marking	\$2.00 / LF	6,520	\$13,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	2,070	\$39,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	1,050	\$33,000
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	10,350	\$94,000
45 Construct Wheelchair Ramp	\$5,200.00 / EA	4	\$21,000
46 Construct Retaining Wall	\$114 / SF	4,250	\$485,000
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$133,000
54 SWPPP Plan and Implementation	6%	1	\$108,000
CONSTRUCTION SUBTOTAL			\$2,116,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$76,000
CONSTRUCTION SUBTOTAL			\$2,192,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$169,000
CONSTRUCTION SUBTOTAL			\$2,023,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$131,000
CONSTRUCTION SUBTOTAL			\$1,892,000
Right-of-Way	\$71.66 / SF	18,400	\$1,319,000
Right-of-Way Management	5%		\$66,000
RIGHT-OF-WAY SUBTOTAL			\$1,385,000
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$3,277,000
Preliminary Project Development (10% of total Construction Cost)			\$190,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$284,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$284,000
Contingency (20% of total Construction Cost)			\$379,000
TOTAL PROJECT COSTS			\$4,414,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: 288. Jeffrey Rd & Walnut Avenue/I-5 SB Ramps
Mitigation: Add EB shared 2nd T lane/2nd RT lane

Date: 6/11/2012
Originally Estimated by: RBF
Revised by: HA

	DESCRIPTION OF WORK	COST		
1	Mobilization	\$40,490		
2	Demolition and Removal Work	\$23,495		
3	Roadway Surfacing	\$13,350		
4	Roadway Items	\$28,540		
5	Traffic Signals	\$297,400		
6	Traffic Signing and Striping	\$4,781		
7	Utilities	\$7,700		
8	Landscaping	\$7,600		
9	Miscellaneous	\$22,000		
10	Construction Cost	\$445,400		
	Contingency (25%)	\$111,400		
	Total Construction Cost	\$556,800		
11	Right-of-Way	\$281,550		
12	Design	\$83,500		
13	Construction Management (15%)	\$83,500		
14	Project Cost	\$1,005,350		
15	Preliminary Project Development (actual)	\$126,029		
	TOTAL PROJECT COSTS	\$1,131,379		
	California Highway Price Index	\$36,000	+3.6%	CCI 2008 --> 2009
	TOTAL PROJECT COSTS	\$1,167,379		
	California Highway Price Index	-\$87,000	(7.7%)	CCI 2009 --> 2010
	TOTAL PROJECT COSTS	\$1,080,379		
	California Highway Price Index	-\$76,000	(6.5%)	CCI 2010 --> 2010*
	TOTAL PROJECT COSTS	\$1,004,379		

For detailed cost estimates for each items listed under Description of Costs, refer to cost estimates provided by DMJM Harris/AECOM

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: 289. Jeffret Rd & Irvine Center Dr

Date: 6/11/2012

Mitigation: Add 4th WB lane (2030); and NB through lanes and 3rd SB left-turn lane and convert SB right turn lane to 4th through lane.

Originally Estimated by: RBF

Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$342,000
2	Clear & Grub	\$12200 / AC	1.5	\$19,000
3	Earthwork	\$46.00 / CY	5,900.0	\$271,000
4	Remove Striping	\$13.00 / LF	6,134.0	\$80,000
5	Remove Curb & Gutter	\$36.00 / LF	6,200.0	\$223,000
6	Remove Median Curb	\$37.00 / LF	2,000.0	\$74,000
7	Remove PCC Sidewalk	\$5.00 / SF	27,856.0	\$139,000
8	Remove Pavement	\$5.00 / SF	0.0	\$0
9	Remove Channel	\$19.00 / LF	0.0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	680	\$21,000
11	Reconstruct Metal Bean Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	61	\$79,000
13	Sawcut	\$1.25 / LF	6,200	\$8,000
14	Relocate Street Light	\$5,700.00 / EA	14	\$80,000
15	Relocate Traffic Signal System	\$225,000.00 / EA	1.00	\$225,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	1	\$1,000
17	Relocate Sign (1 post)	\$220.00 / EA	6	\$1,000
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	2	\$50,000
21	Relocate Catch Basin	\$9,760.00 / EA	6	\$59,000
22	Relocate Fire Hydrant	\$5,000.00 / EA	4	\$20,000
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	4	\$24,000
25	Relocate Utility Boxes	\$895.00 / EA	26	\$23,000
26	Relocate Main Water Valve	\$12,200.00 / EA	2	\$24,000
27	Relocate Utility Vault	\$10,000 / EA	1	\$10,000
28	Adjust Manhole to Grade	\$1,500.00 / EA	8	\$12,000
29	Adjust Water Meter	\$610.00 / EA	2	\$1,000
30	Adjust Water Valve	\$610.00 / EA	21	\$13,000
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	6	\$4,000
32	Modify Driveway	\$6,100.00 / LS	4	\$24,000
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	67,164	\$403,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	240,500	\$96,000
37	Construct Striping & Marking	\$2.00 / LF	10,964	\$22,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	6,200	\$118,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	2,900	\$90,000
42	Construct Median Concrete	\$7.9 / SF	10,200	\$81,000
43	Construct Median/Parkway Landscaping	\$13.00 / SF	2,760	\$36,000
44	Construct PCC Sidewalk	\$9.05 / SF	27,056	\$245,000
45	Construct Wheelchair Ramp	\$5,200.00 / EA	8	\$42,000
46	Construct Retaining Wall	\$114 / SF	300	\$34,000
46.1	Remove Retaining Wall	\$74.00/SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49(03)	Construct Channel (Earthen)	\$12.2 / LF	750	\$9,000
50(03)	Construct Portable Delineator	\$36.60 / EA	22	\$1,000
49	Construct Concrete V-Ditch	\$19.00/ LF	1,315	\$25,000
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$215,000
54	SWPPP Plan and Implementation	6%	1	\$174,000
	CONSTRUCTION SUBTOTAL			\$3,418,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$123,000
	CONSTRUCTION SUBTOTAL			\$3,541,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$273,000
	CONSTRUCTION SUBTOTAL			\$3,268,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$212,000
	CONSTRUCTION SUBTOTAL			\$3,056,000
	Right-of-Way	\$71.66 / SF	78,400	\$5,618,000
	Right-of-Way Management	5%		\$281,000
	RIGHT-OF-WAY SUBTOTAL			\$5,899,000
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$8,955,000
	Preliminary Project Development (10% of total Construction Cost)			\$306,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$458,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$458,000
	Contingency (20% of total Construction Cost)			\$611,000
	TOTAL PROJECT COSTS			\$10,788,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #291. Jeffrey Rd at Alton Pkwy

Date: 6/11/2012

Mitigation: + Add 3rd EB T lane, Convert NB free RT lane to standard RT lane
+ Add SB defacto RT lane

Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$63,000
2 Clear & Grub	\$12200 / AC	0.2	\$2,000
3 Earthwork	\$46.00 / CY	1,800	\$83,000
4 Remove Striping	\$13.00 / LF	3,500	\$46,000
5 Remove Curb & Gutter	\$36.00 / LF	1,200	\$43,000
6 Remove Median Curb	\$37.00 / LF	200	\$7,000
7 Remove PCC Sidewalk	\$5.00 / SF	4,000	\$20,000
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	13	\$17,000
13 Sawcut	\$1.25 / LF	1,200	\$2,000
14 Relocate Street Light	\$5,700.00 / EA	0	\$0
15 Relocate Traffic Signal System	\$225,000.00 / EA	0.50	\$113,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	3	\$1,000
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	1	\$10,000
22 Relocate Fire Hydrant	\$5,000.00 / EA	1	\$5,000
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	1	\$1,000
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	1	\$2,000
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	3	\$2,000
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	6,300	\$38,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	18,800	\$8,000
37 Construct Striping & Marking	\$2.00 / LF	4,300	\$9,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	1,200	\$23,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	2,400	\$31,000
44 Construct PCC Sidewalk	\$9.05 / SF	3,000	\$27,000
45 Construct Wheelchair Ramp	\$5,200.00 / EA	1	\$5,000
46 Construct Retaining Wall	\$114 / SF	0	\$0
46.1 Remove Retaining Wall	\$74.00 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$40,000
54 SWPPP Plan and Implementation	6%	1	\$32,000
CONSTRUCTION SUBTOTAL			\$630,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$23,000
CONSTRUCTION SUBTOTAL			\$653,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$50,000
CONSTRUCTION SUBTOTAL			\$603,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$39,000
CONSTRUCTION SUBTOTAL			\$564,000
Right-of-Way	\$71.66 / SF	4,000	\$287,000
Right-of-Way Management	5%		\$14,000
RIGHT-OF-WAY SUBTOTAL			\$301,000
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$865,000
Preliminary Project Development (10% of total Construction Cost)			\$57,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$85,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$85,000
Contingency (20% of total Construction Cost)			\$113,000
TOTAL PROJECT COSTS			\$1,205,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
FINAL COST ESTIMATE (BASED ON ACTUAL COSTS)**

10.21.08

LOCATION: #302, SAND CANYON AVE. AT TRABUCO RD.
MITIGATION: CONVERT EB RT LANE TO FREE RT LANE.

DATE: 9/17/2010
ESTIMATED BY: PM

Sully Miller Item No.	Sukut Item No.	DESCRIPTION OF WORK	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL
1		MOBILIZATION (2% OF CONST. COST)	1	LS	\$6,024.00	\$6,024.00
2		PAYMENT AND PERFORMANCE BONDS (1.5% OF CONST. COST)	1	LS	\$4,518.00	\$4,518.00
3		DEVELOP CONSTRUCTION WATER (PRO-RATED 20% OF CONST. COST)	1	LS	\$10,000.00	\$10,000.00
4 & CO #2		TRAFFIC CONTROL (PRO-RATED 11% OF CONST. COST)	1	LS	\$20,000.00	\$20,000.00
6		CLEAR & GRUB (PRO-RATED 40% OF CONST. COST)	1	LS	\$8,000.00	\$8,000.00
	11	UNCLASSIFIED EXCAVATION	5,300	CY	\$4.50	\$23,850.00
	13	UNSUITABLE MATERIAL EXCAVATION AND RECOMPACTION	5,300	CY	\$2.05	\$10,865.00
13		PARKWAY AND SLOPE FINISH (+/- 0.2 FT.)	42,200	SF	\$0.16	\$6,752.00
14 to 16		SWPPP PLAN AND IMPLEMENTATION (PRO-RATED 7% OF CONT)	1	LS	\$14,887.82	\$14,887.82
17		PREPARE STREET SUBGRADE	23,900	SF	\$0.25	\$5,975.00
20A		CONSTRUCT AGGREGATE BASE	23,900	SF	\$0.90	\$21,510.00
23A		CONSTRUCT AC PAVEMENT	23,900	SF	\$1.50	\$35,850.00
29		CONSTRUCT MEDIAN CURB	235	LF	\$11.00	\$2,585.00
30		CONSTRUCT CURB & GUTTER	1,205	LF	\$13.00	\$15,665.00
35		CONSTRUCT WHEELCHAIR RAMP	4	EA	\$550.00	\$2,200.00
36		CONSTRUCT DETECTABLE WARNING SURFACE FOR ACCESS RAMP	4	EA	\$600.00	\$2,400.00
40		CONSTRUCT SUB TURNOUT	960	SF	\$10.28	\$9,868.80
51		REMOVE EXISTING PAVEMENT & SAWCUT	1,050	SF	\$0.50	\$525.00
59		REMOVE CURB & GUTTER	130	LF	\$1.80	\$234.00
65		REMOVE EXISTING A.C. RAMP & PAVEMENT	1	EA	\$350.00	\$350.00
69 & 70		CONSTRUCT STRIPING & MARKING (PRO-RATED 6.5% OF CONST. COST)	1	LS	\$3,917.55	\$3,917.55
79		CONSTRUCT MEDIAN CONCRETE	2,075	SF	\$5.60	\$11,620.00
79		CONSTRUCT PCC SIDEWALK	5,300	SF	\$5.60	\$29,680.00
84		RELOCATE TRAFFIC SIGNAL SYSTEM	0.25	EA	\$243,600.00	\$60,900.00
147 New CO #3		RELOCATE FIRE HYDRANT	1	EA	\$3,565.00	\$3,565.00
		TOTAL CONSTRUCTION COST				\$311,742.18
CCI 2008 --> 2009		California Highway Price Index	+3.6%			\$11,000.00
		CONSTRUCTION SUBTOTAL				\$322,742.18
CCI 2009 --> 2010		California Highway Price Index	(7.7%)			-\$25,000.00
		CONSTRUCTION SUBTOTAL				\$297,742.18
		Preliminary Project Development (10% of total Construction Cost)				\$29,774.22
		Design Engineering/Administration Costs (15% of total Construction Cost)				\$44,661.33
		Construction Engineering Costs/Administration (15% of total Construction Cost)				\$44,661.33
		TOTAL PROJECT COSTS				\$416,839.05

Location No. 302, Sand Canyon Ave. at Trabuco Road.

The basis of project limit and cost items are based on preliminary cost estimate and design prepared by RBF Consulting, dated 2/13/2003.

Portion of the Trabuco Road Improvements (west of the Sand Canyon intersection) are constructed as part of the AD # 03-19 (CIP # 31, 3140) offsite infrastructure work by Sukut Construction (Contract No. 1036600). Portion of the Sand Canyon improvements including the traffic signal relocation are constructed as part of the AD #03-19 (CIP #314,900) offsite infrastructure work by Sully-Miller Contracting (Contract No. 1043500)

- 1) Approximately 515 linear foot (street station 156+15 to station 161+30) of right turn lane as part of Trabuco Road improvements, west of Sand Canyon intersection are within the NITM fee credit limits.
- 2) Approximately 770 linear foot (street station 45+00 to station 52+70) of free right turn lane transition lane as part of Sand Canyon improvements, south of Trabuco Road intersection are within the NITM fee credit limits. Sand Canyon Avenue improvements included the free right turn median island and traffic signal modification work.
- 3) Construction items, quantities, and unit prices are based on actual costs from Sukut Construction and Sully Miller contracts. Pro-rated items are items that are lump sum items in the contracts, for this NITM fee credit estimate purposes, the items are prorated based on % of construction cost.
- 4) Preliminary Project Development, Design Engineering and Construction Engineering / Administration Costs are based on same % used on the preliminary cost estimate by RBF consulting.

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #303. Sand Canyon Ave at I-5 NB ramps/Marine Wy

Date: 6/11/2012

Mitigation: + Add 3rd NB & SB T lanes, improve EB approach to provide 2 LT lanes
+ 1 T lane & 1 RT lane, Restripe WB approach to provide 1 LT lane, 1.5 T lanes & 1.5 RT lanes

Originally Estimated by: RBF
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$206,000
2	Clear & Grub	\$12200 / AC	1.0	\$12,000
3	Earthwork	\$46.00 / CY	5,300	\$244,000
4	Remove Striping	\$13.00 / LF	2,100	\$27,000
5	Remove Curb & Gutter	\$36.00 / LF	0	\$0
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8	Remove Pavement	\$5.00 / SF	2,900	\$15,000
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	6	\$8,000
13	Sawcut	\$1.25 / LF	2,900	\$4,000
14	Relocate Street Light	\$5,700.00 / EA	1	\$6,000
15	Relocate Traffic Signal System	\$225,000.00 / EA	1.50	\$338,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	2	\$1,000
17	Relocate Sign (1 post)	\$220.00 / EA	1	\$0
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	1	\$25,000
21	Relocate Catch Basin	\$9,760.00 / EA	2	\$20,000
22	Relocate Fire Hydrant	\$5,000.00 / EA	1	\$5,000
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	10	\$9,000
26	Relocate Main Water Valve	\$12,200.00 / EA	1	\$12,000
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	2	\$3,000
29	Adjust Water Meter	\$610.00 / EA	2	\$1,000
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	7	\$4,000
32	Modify Driveway	\$6,100.00 / LS	1	\$6,000
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	62,120	\$373,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	60,500	\$24,000
37	Construct Striping & Marking	\$2.00 / LF	4,650	\$9,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	2,210	\$42,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	150	\$5,000
42	Construct Median Concrete	\$7.9 / SF	1,250	\$10,000
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	12,400	\$112,000
45	Construct Wheelchair Ramp	\$5,200.00 / EA	6	\$31,000
46	Construct Retaining Wall	\$114 / SF	2,300	\$262,000
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00 / LF	400	\$8,000
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$129,000
54	SWPPP Plan and Implementation	6%	1	\$105,000
	CONSTRUCTION SUBTOTAL			\$2,056,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$74,000
	CONSTRUCTION SUBTOTAL			\$2,130,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$164,000
	CONSTRUCTION SUBTOTAL			\$1,966,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$128,000
	CONSTRUCTION SUBTOTAL			\$1,838,000
	Right-of-Way	\$71.66 / SF	1,600	\$115,000
	Right-of-Way Management	5%		\$6,000
	RIGHT-OF-WAY SUBTOTAL			\$121,000
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$1,959,000
	Preliminary Project Development (10% of total Construction Cost)			\$184,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$276,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$276,000
	Contingency (20% of total Construction Cost)			\$368,000
	TOTAL PROJECT COSTS			\$3,063,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #305. Sand Canyon Ave at I-5 SB ramps
Mitigation: + Add 3rd NB & SB T lanes

Date: 6/11/2012
Originally Estimated by: RBF
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$111,000
2	Clear & Grub	\$12200 / AC	0.3	\$4,000
3	Earthwork	\$46.00 / CY	1,020	\$47,000
4	Remove Striping	\$13.00 / LF	2,480	\$32,000
5	Remove Curb & Gutter	\$36.00 / LF	1,140	\$41,000
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00/ SF	10,900	\$55,000
8	Remove Pavement	\$5.00 / SF	1,140	\$6,000
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	130	\$4,000
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	1,140	\$1,000
14	Relocate Street Light	\$5,700.00 / EA	0	\$0
15	Relocate Traffic Signal System	\$225,000.00 / EA	1.00	\$225,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	8	\$6,000
17	Relocate Sign (1 post)	\$220.00 / EA	1	\$0
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	5	\$49,000
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	1	\$6,000
25	Relocate Utility Boxes	\$895.00 / EA	21	\$19,000
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	5	\$8,000
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	5	\$3,000
32	Modify Driveway	\$6,100.00 / LS	1	\$6,000
33	Construct PCC Pavement	\$7.50 / SF	250	\$2,000
34	Construct AC Pavement	\$6.00 / SF	21,000	\$126,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	31,500	\$13,000
37	Construct Striping & Marking	\$2.00 / LF	2,390	\$5,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	1,140	\$22,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	4,000	\$52,000
44	Construct PCC Sidewalk	\$9.05 / SF	10,500	\$95,000
45	Construct Wheelchair Ramp	\$5,200.00 / EA	8	\$42,000
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$70,000
54	SWPPP Plan and Implementation	6%	1	\$56,000
	CONSTRUCTION SUBTOTAL			\$1,106,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$40,000
	CONSTRUCTION SUBTOTAL			\$1,146,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$88,000
	CONSTRUCTION SUBTOTAL			\$1,058,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$69,000
	CONSTRUCTION SUBTOTAL			\$989,000
	Right-of-Way	\$71.66 / SF	3,000	\$215,000
	Right-of-Way Management	5%		\$11,000
	RIGHT-OF-WAY SUBTOTAL			\$226,000
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$1,215,000
	Preliminary Project Development (10% of total Construction Cost)			\$99,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$149,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$149,000
	Contingency (20% of total Construction Cost)			\$198,000
	TOTAL PROJECT COSTS			\$1,810,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: 306. Sand Canyon Ave & Oak Canyon/Laguna Canyon Rd
Mitigation: Part 1 - Add WB approach lane to provide 2 left-turn lanes
1.5 through lanes and 1.5 right-turn lanes

Date: 6/11/2012
Originally Estimated by: RBF
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	0	\$64,000
2	Clear & Grub	\$12200 / AC	0.3	\$3,000
3	Earthwork	\$46.00 / CY	0	\$0
4	Remove Striping	\$13.00 / LF	440	\$6,000
5	Remove Curb & Gutter	\$36.00 / LF	1,570	\$57,000
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00 / SF	12,560	\$63,000
8	Remove Pavement	\$5.00 / SF	0	\$0
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	22	\$29,000
13	Sawcut	\$1.25 / LF	0	\$0
14	Relocate Street Light	\$5,700.00 / EA	6	\$34,000
15	Relocate Traffic Signal System	\$225,000.00 / EA	0.50	\$113,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	1	\$0
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22	Relocate Fire Hydrant	\$5,000.00 / EA	4	\$20,000
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	1	\$6,000
25	Relocate Utility Boxes	\$895.00 / EA	7	\$6,000
26	Relocate Main Water Valve	\$12,200.00 / EA	1	\$12,000
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	2	\$3,000
29	Adjust Water Meter	\$610.00 / EA	1	\$1,000
30	Adjust Water Valve	\$610.00 / EA	16	\$10,000
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	1	\$6,000
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	8,140	\$49,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$2.00 / LF	1,172	\$2,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	1,570	\$30,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	12,560	\$114,000
45	Construct Wheelchair Ramp	\$5,200.00 / EA	2	\$10,000
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS		\$0
53	Traffic Control	8% (\$2,000 Min)		\$2,000
54	SWPPP Plan and Implementation	6%		\$0
	CONSTRUCTION SUBTOTAL			\$640,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$23,000
	CONSTRUCTION SUBTOTAL			\$663,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$51,000
	CONSTRUCTION SUBTOTAL			\$612,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$40,000
	CONSTRUCTION SUBTOTAL			\$572,000
	Right-of-Way	\$71.66 / SF	0	\$0
	Right-of-Way Management	5%		\$0
	RIGHT-OF-WAY SUBTOTAL			\$0
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$572,000
	Preliminary Project Development (10% of total Construction Cost)			\$58,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$86,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$86,000
	Contingency (20% of total Construction Cost)			\$115,000
	TOTAL PROJECT COSTS			\$917,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #310. Sand Canyon Ave at Alton Pkwy
Mitigation: + Add 2nd NB RT lane

Date: 6/11/2012
Originally Estimated by: RBF
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$21,000
2	Clear & Grub	\$12200 / AC	0.0	\$0
3	Earthwork	\$46.00 / CY	50	\$2,000
4	Remove Striping	\$13.00 / LF	200	\$3,000
5	Remove Curb & Gutter	\$36.00 / LF	200	\$7,000
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00/ SF	1,300	\$7,000
8	Remove Pavement	\$5.00 / SF	0	\$0
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	2	\$3,000
13	Sawcut	\$1.25 / LF	200	\$0
14	Relocate Street Light	\$5,700.00 / EA	1	\$6,000
15	Relocate Traffic Signal System	\$225,000.00 / EA	0.50	\$113,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	400	\$2,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$2.00 / LF	400	\$1,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	200	\$4,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	1,300	\$12,000
45	Construct Wheelchair Ramp	\$5,200.00 / EA	1	\$5,000
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$13,000
54	SWPPP Plan and Implementation	6%	1	\$11,000
	CONSTRUCTION SUBTOTAL			\$210,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$8,000
	CONSTRUCTION SUBTOTAL			\$218,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$17,000
	CONSTRUCTION SUBTOTAL			\$201,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$13,000
	CONSTRUCTION SUBTOTAL			\$188,000
	Right-of-Way	\$71.66 / SF	350	\$25,000
	Right-of-Way Management	5%		\$1,000
	RIGHT-OF-WAY SUBTOTAL			\$26,000
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$214,000
	Preliminary Project Development (10% of total Construction Cost)			\$19,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$29,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$29,000
	Contingency (20% of total Construction Cost)			\$38,000
	TOTAL PROJECT COSTS			\$329,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #311. Sand Canyon Ave at I-405 NB ramps

Date: 6/11/2012

Mitigation: + Improve WB approach to provide a LT lane, a RT lane,
and a free RT lane

Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$67,000
2 Clear & Grub	\$12200 / AC	0.4	\$5,000
3 Earthwork	\$46.00 / CY	2,050	\$94,000
4 Remove Striping	\$13.00 / LF	300	\$4,000
5 Remove Curb & Gutter	\$36.00 / LF	400	\$14,000
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	2,400	\$12,000
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	350	\$11,000
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	700	\$1,000
14 Relocate Street Light	\$5,700.00 / EA	1	\$6,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	0.33	\$74,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	4	\$3,000
17 Relocate Sign (1 post)	\$220.00 / EA	4	\$1,000
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	1	\$10,000
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	3	\$3,000
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	2	\$3,000
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	1	\$1,000
32 Relocate Drainage Inlet	\$1,830.00 / EA	1	\$2,000
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	14,000	\$84,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$2.00 / LF	700	\$1,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	400	\$8,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	185	\$6,000
42 Construct Median Concrete	\$7.9 / SF	2,500	\$20,000
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	2,400	\$22,000
45 Construct Wheelchair Ramp	\$5,200.00 / EA	3	\$16,000
46 Construct Retaining Wall	\$114 / SF	920	\$105,000
47 Construct Storm Drain Main	\$122.00 / LF	100	\$12,000
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	380	\$7,000
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$42,000
54 SWPPP Plan and Implementation	6%	1	\$34,000
CONSTRUCTION SUBTOTAL			\$668,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$24,000
CONSTRUCTION SUBTOTAL			\$692,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$53,000
CONSTRUCTION SUBTOTAL			\$639,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$42,000
CONSTRUCTION SUBTOTAL			\$597,000
Right-of-Way	\$71.66 / SF	2,550	\$183,000
Right-of-Way Management	5%		\$9,000
RIGHT-OF-WAY SUBTOTAL			\$192,000
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$789,000
Preliminary Project Development (10% of total Construction Cost)			\$60,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$90,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$90,000
Contingency (20% of total Construction Cost)			\$120,000
TOTAL PROJECT COSTS			\$1,149,000

Item differs from other cost estimate sheets

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010 COST ESTIMATES**

Location: #321. Laguna Canyon Rd at Old Laguna Canyon Rd
Mitigation: + Add 3rd NB LT lane, 3rd NB T lane, and 3rd SB T lane

Date: 9/17/2010
Originally Estimated by: RBF
Revised by: PM

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$131,000
2	Clear & Grub	\$12200 / AC	1.0	\$12,000
3	Earthwork	\$46.00 / CY	4,000	\$184,000
4	Remove Striping	\$13.00 / LF	5,000	\$65,000
5	Remove Curb & Gutter	\$36.00 / LF	2,350	\$85,000
6	Remove Median Curb	\$37.00 / LF	1,200	\$44,000
7	Remove PCC Sidewalk	\$5.00/ SF	2,100	\$11,000
8	Remove Pavement	\$5.00 / SF	6,500	\$33,000
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	2,150	\$3,000
14	Relocate Street Light	\$5,700.00 / EA	0	\$0
15	Relocate Traffic Signal System	\$225,000.00 / EA	0.75	\$169,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	5	\$1,000
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	17	\$166,000
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	19,200	\$115,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$2.00 / LF	5,850	\$12,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	2,400	\$46,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	1,400	\$43,000
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	2,100	\$19,000
45	Construct Wheelchair Ramp	\$5,200.00 / EA	4	\$21,000
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$82,000
54	SWPPP Plan and Implementation	6%	1	\$67,000
	CONSTRUCTION SUBTOTAL			\$1,309,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$47,000
	CONSTRUCTION SUBTOTAL			\$1,356,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$104,000
	CONSTRUCTION SUBTOTAL			\$1,252,000
	Right-of-Way	\$71.66 / SF	0	\$0
	Right-of-Way Management	5%		\$0
	RIGHT-OF-WAY SUBTOTAL			\$0
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$1,252,000
	Preliminary Project Development (10% of total Construction Cost)			\$126,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$188,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$188,000
	Contingency (20% of total Construction Cost)			\$251,000
	TOTAL PROJECT COSTS			\$2,005,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #338. Alton Pkwy at Irvine Blvd (LOS E)

Date: 6/11/2012

Mitigation: + Stripe EB approach to provide 2.5 LT lanes, 2.5 T lanes
and 1 RT lane

Originally Estimated by: RBF
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$2,000
2	Clear & Grub	\$12200 / AC	0.0	\$0
3	Earthwork	\$46.00 / CY	0	\$0
4	Remove Striping	\$13.00 / LF	400	\$5,000
5	Remove Curb & Gutter	\$36.00 / LF	0	\$0
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8	Remove Pavement	\$5.00 / SF	0	\$0
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	0	\$0
14	Relocate Street Light	\$5,700.00 / EA	0	\$0
15	Relocate Traffic Signal System	\$225,000.00 / EA	0.00	\$0
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	1	\$0
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	0	\$0
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$2.00 / LF	800	\$2,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	0	\$0
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45	Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$2,000
54	SWPPP Plan and Implementation	6%	0	\$0
	CONSTRUCTION SUBTOTAL			\$11,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$396
	CONSTRUCTION SUBTOTAL			\$11,396
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$1,000
	CONSTRUCTION SUBTOTAL			\$10,396
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$1,000
	CONSTRUCTION SUBTOTAL			\$9,396
	Right-of-Way	\$71.66 / SF	0	\$0
	Right-of-Way Management	5%		\$0
	RIGHT-OF-WAY SUBTOTAL			\$0
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$9,396
	Preliminary Project Development (10% of total Construction Cost)			\$1,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$2,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$2,000
	Contingency (20% of total Construction Cost)			\$2,000
	TOTAL PROJECT COSTS			\$16,396

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #338. Alton Pkwy at Irvine Blvd (LOS D)
Mitigation: + Add 4th WB T lane and 3rd EB LT lane

Date: 6/11/2012
Originally Estimated by: RBF
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$278,000
2	Clear & Grub	\$12200 / AC	5	\$61,000
3	Earthwork	\$46.00 / CY	9,000	\$414,000
4	Remove Striping	\$13.00 / LF	6,200	\$81,000
5	Remove Curb & Gutter	\$36.00 / LF	2,900	\$104,000
6	Remove Median Curb	\$37.00 / LF	400	\$15,000
7	Remove PCC Sidewalk	\$5.00/ SF	23,300	\$117,000
8	Remove Pavement	\$5.00 / SF	3,900	\$20,000
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00/ LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	6,200	\$8,000
14	Relocate Street Light	\$5,700.00 / EA	10	\$57,000
15	Relocate Traffic Signal System	\$225,000.00 / EA	1	\$225,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	1	\$0
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	3	\$18,000
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	103,400	\$620,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$2.00 / LF	6,200	\$12,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	2,900	\$55,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	3,600	\$28,000
43	Construct Median/Parkway Landscaping	\$13.00 / SF	11,600	\$151,000
44	Construct PCC Sidewalk	\$9.05 / SF	14,500	\$131,000
45	Construct Wheelchair Ramp	\$5,200.00 / EA	4	\$21,000
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$50,000
49	Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$175,000
54	SWPPP Plan and Implementation	6%	1	\$142,000
	CONSTRUCTION SUBTOTAL			\$2,783,000
	CONSTRUCTION SUBTOTAL (TMSOS ALLOWANCE)			\$2,783,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$100,000
	CONSTRUCTION SUBTOTAL			\$2,883,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$222,000
	CONSTRUCTION SUBTOTAL			\$2,661,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$173,000
	CONSTRUCTION SUBTOTAL			\$2,488,000
	Item differs from other cost estimate sheets			

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #345. Alton Pkwy at I-5 NB ramps

Date: 6/11/2012

Mitigation: + Restripe WB approach to provide 2.5 LT lanes and 0.5 RT lanes

Originally Estimated by: RBF

Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$2,000
2	Clear & Grub	\$12200 / AC	0.0	\$0
3	Earthwork	\$46.00 / CY	0	\$0
4	Remove Striping	\$13.00 / LF	350	\$5,000
5	Remove Curb & Gutter	\$36.00 / LF	0	\$0
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8	Remove Pavement	\$5.00 / SF	0	\$0
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	0	\$0
14	Relocate Street Light	\$5,700.00 / EA	0	\$0
15	Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	0	\$0
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	16,800	\$7,000
37	Construct Striping & Marking	\$2.00 / LF	350	\$1,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	0	\$0
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45	Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$2,000
54	SWPPP Plan and Implementation	6%	0	\$0
	CONSTRUCTION SUBTOTAL			\$17,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$1,000
	CONSTRUCTION SUBTOTAL			\$18,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$1,000
	CONSTRUCTION SUBTOTAL			\$17,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$1,000
	CONSTRUCTION SUBTOTAL			\$16,000
	Right-of-Way	\$71.66 / SF	0	\$0
	Right-of-Way Management	5%		\$0
	2008 RIGHT-OF-WAY SUBTOTAL			\$0
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$16,000
	Preliminary Project Development (10% of total Construction Cost)			\$2,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$3,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$3,000
	Contingency (20% of total Construction Cost)			\$4,000
	TOTAL PROJECT COSTS			\$28,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #362. Bake Pkwy at Irvine Blvd (Alt2)

Date: 6/11/2012

Mitigation: + Convert WB RT lane to shared 4th T/RT lane. Add 2nd NB LT lanes
+ Restripe EB to provide 2 LT lanes, 2.5 T lanes and 1.5 RT lanes

Originally Estimated by: RBF, PBS&J
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$160,000
2	Clear & Grub	\$12200 / AC	0.2	\$2,000
3	Earthwork	\$46.00 / CY	4,000	\$184,000
4	Remove Striping	\$13.00 / LF	1,600	\$21,000
5	Remove Curb & Gutter	\$36.00 / LF	750	\$27,000
6	Remove Median Curb	\$37.00 / LF	500	\$19,000
7	Remove PCC Sidewalk	\$5.00/ SF	11,500	\$58,000
8	Remove Pavement	\$5.00 / SF	7,000	\$35,000
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	35	\$46,000
13	Sawcut	\$1.25 / LF	2,000	\$3,000
14	Relocate Street Light	\$5,700.00 / EA	5	\$29,000
15	Relocate Traffic Signal System	\$225,000.00 / EA	1.00	\$225,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	9	\$2,000
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	5	\$125,000
21	Relocate Catch Basin	\$9,760.00 / EA	2	\$20,000
22	Relocate Fire Hydrant	\$5,000.00 / EA	2	\$10,000
23	Relocate Bus Bench	\$1,458.00/ EA	1	\$1,000
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	48	\$43,000
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	3	\$30,000
28	Adjust Manhole to Grade	\$1,500.00 / EA	5	\$8,000
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	12	\$7,000
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	10	\$6,000
32	Modify Driveway	\$6,100.00 / LS	1	\$6,000
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	10,800	\$65,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$2.00 / LF	1,600	\$3,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	800	\$15,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	550	\$17,000
42	Construct Median Concrete	\$7.9 / SF	1,100	\$9,000
43	Construct Median/Parkway Landscaping	\$13.00 / SF	400	\$5,000
44	Construct PCC Sidewalk	\$9.05 / SF	12,900	\$117,000
45	Construct Wheelchair Ramp	\$5,200.00 / EA	4	\$21,000
46	Construct Retaining Wall	\$114 / SF	840	\$96,000
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$100,000
54	SWPPP Plan and Implementation	6%	1	\$81,000
	CONSTRUCTION SUBTOTAL			\$1,596,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$57,000
	CONSTRUCTION SUBTOTAL			\$1,653,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$127,000
	CONSTRUCTION SUBTOTAL			\$1,526,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$99,000
	CONSTRUCTION SUBTOTAL			\$1,427,000
	Right-of-Way	\$71.66 / SF	8,100	\$580,000
	Right-of-Way Management	5%		\$29,000
	RIGHT-OF-WAY SUBTOTAL			\$609,000
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$2,036,000
	Preliminary Project Development (10% of total Construction Cost)			\$143,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$215,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$215,000
	Contingency (20% of total Construction Cost)			\$286,000
	TOTAL PROJECT COSTS			\$2,895,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #362. Bake Pkwy at Irvine Blvd

Date: 6/11/2012

Mitigation: + Convert WB RT lane to shared 4th T/RT lane. Add 2nd NB LT lane
+ Restripe EB to provide 2 LT lanes, 2.5 T lanes and 1.5 RT lanes
+ Add 4th SB T lane and convert SB RT lane to free RT lane

Originally Estimated by: RBF
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$348,000
2	Clear & Grub	\$12200 / AC	0.2	\$2,000
3	Earthwork	\$46.00 / CY	9,700	\$446,000
4	Remove Striping	\$13.00 / LF	1,900	\$25,000
5	Remove Curb & Gutter	\$36.00 / LF	2,800	\$101,000
6	Remove Median Curb	\$37.00 / LF	850	\$31,000
7	Remove PCC Sidewalk	\$5.00/ SF	22,400	\$112,000
8	Remove Pavement	\$5.00 / SF	40,000	\$200,000
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00/ LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	35	\$46,000
13	Sawcut	\$1.25 / LF	2,350	\$3,000
14	Relocate Street Light	\$5,700.00 / EA	5	\$29,000
15	Relocate Traffic Signal System	\$225,000.00 / EA	1.00	\$225,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	9	\$2,000
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	5	\$125,000
21	Relocate Catch Basin	\$9,760.00 / EA	2	\$20,000
22	Relocate Fire Hydrant	\$5,000.00 / EA	2	\$10,000
23	Relocate Bus Bench	\$1,458.00/ EA	1	\$1,000
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	48	\$43,000
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	3	\$30,000
28	Adjust Manhole to Grade	\$1,500.00 / EA	5	\$8,000
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	12	\$7,000
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	10	\$6,000
32	Modify Driveway	\$6,100.00 / LS	1	\$6,000
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	67,700	\$406,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$2.00 / LF	6,000	\$12,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	2,800	\$53,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	1,100	\$34,000
42	Construct Median Concrete	\$7.9 / SF	3,900	\$31,000
43	Construct Median/Parkway Landscaping	\$13.00 / SF	400	\$5,000
44	Construct PCC Sidewalk	\$9.05 / SF	22,400	\$203,000
45	Construct Wheelchair Ramp	\$5,200.00 / EA	5	\$26,000
46	Construct Retaining Wall	\$114 / SF	4,300	\$490,000
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$219,000
54	SWPPP Plan and Implementation	6%	1	\$177,000
	CONSTRUCTION SUBTOTAL			\$3,482,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$125,000
	CONSTRUCTION SUBTOTAL			\$3,607,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$278,000
	CONSTRUCTION SUBTOTAL			\$3,329,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$216,000
	CONSTRUCTION SUBTOTAL			\$3,113,000
	Right-of-Way	\$71.66 / SF	25,000	\$1,792,000
	Right-of-Way Management	5%		\$90,000
	RIGHT-OF-WAY SUBTOTAL			\$1,882,000
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$4,995,000
	Preliminary Project Development (10% of total Construction Cost)			\$312,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$467,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$467,000
	Contingency (20% of total Construction Cost)			\$623,000
	TOTAL PROJECT COSTS			\$6,864,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #364. Bake Pkwy at Jeronimo Dr

Date: 6/11/2012

Mitigation: + Add 2nd NB LT lane, Convert SB defacto RT lane to 4th T lane
+ Add 3rd WB T lane

Originally Estimated by: RBF, PBS&J
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$235,000
2	Clear & Grub	\$12200 / AC	0.4	\$5,000
3	Earthwork	\$46.00 / CY	2,910	\$134,000
4	Remove Striping	\$13.00 / LF	2,400	\$31,000
5	Remove Curb & Gutter	\$36.00 / LF	3,590	\$129,000
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00/ SF	17,950	\$90,000
8	Remove Pavement	\$5.00 / SF	3,590	\$18,000
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	68	\$88,000
13	Sawcut	\$1.25 / LF	3,590	\$4,000
14	Relocate Street Light	\$5,700.00 / EA	7	\$40,000
15	Relocate Traffic Signal System	\$225,000.00 / EA	1.00	\$225,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	6	\$1,000
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	7	\$175,000
21	Relocate Catch Basin	\$9,760.00 / EA	2	\$20,000
22	Relocate Fire Hydrant	\$5,000.00 / EA	1	\$5,000
23	Relocate Bus Bench	\$1,458.00/ EA	1	\$1,000
24	Relocate Monument Wall	\$6,100.00 / EA	1	\$6,000
25	Relocate Utility Boxes	\$895.00 / EA	29	\$26,000
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	1	\$10,000
28	Adjust Manhole to Grade	\$1,500.00 / EA	3	\$5,000
29	Adjust Water Meter	\$610.00 / EA	1	\$1,000
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	8	\$5,000
32	Modify Driveway	\$6,100.00 / LS	3	\$18,000
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	20,010	\$120,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	89,100	\$36,000
37	Construct Striping & Marking	\$2.00 / LF	2,400	\$5,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	3,590	\$68,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	16,650	\$216,000
44	Construct PCC Sidewalk	\$9.05 / SF	17,950	\$162,000
45	Construct Wheelchair Ramp	\$5,200.00 / EA	4	\$21,000
46	Construct Retaining Wall	\$114 / SF	1,600	\$182,000
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50	Relocate Mail Box	\$500.00 / SF	1	\$1,000
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$148,000
54	SWPPP Plan and Implementation	6%	1	\$120,000
	CONSTRUCTION SUBTOTAL			\$2,351,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$85,000
	CONSTRUCTION SUBTOTAL			\$2,436,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$188,000
	CONSTRUCTION SUBTOTAL			\$2,248,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$146,000
	CONSTRUCTION SUBTOTAL			\$2,102,000
	Right-of-Way	\$71.66 / SF	16,650	\$1,193,000
	Right-of-Way Management	5%		\$60,000
	RIGHT-OF-WAY SUBTOTAL			\$1,253,000
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$3,355,000
	Preliminary Project Development (10% of total Construction Cost)			\$211,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$316,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$316,000
	Contingency (20% of total Construction Cost)			\$421,000
	TOTAL PROJECT COSTS			\$4,619,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #368, Bake Pkwy at I-5 SB ramps
Mitigation: + Add 4th NB T lane

Date: 6/11/2012
Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$157,000
2 Clear & Grub	\$12200 / AC	0.2	\$2,000
3 Earthwork	\$46.00 / CY	3,820	\$176,000
4 Remove Striping	\$13.00 / LF	8,750	\$114,000
5 Remove Curb & Gutter	\$36.00 / LF	1,380	\$50,000
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	6,490	\$32,000
8 Remove Pavement	\$5.00 / SF	800	\$4,000
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	30	\$1,000
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	110	\$9,000
12 Remove & Relocate Tree	\$1,300.00 / EA	11	\$14,000
13 Sawcut	\$1.25 / LF	1,420	\$2,000
14 Relocate Street Light	\$5,700.00 / EA	3	\$17,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	0.50	\$113,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	1	\$1,000
17 Relocate Sign (1 post)	\$220.00 / EA	12	\$3,000
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	1	\$10,000
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	15	\$13,000
26 Relocate Main Water Valve	\$12,200.00 / EA	1	\$12,000
27 Relocate Utility Vault	\$10,000 / EA	4	\$40,000
28 Adjust Manhole to Grade	\$1,500.00 / EA	2	\$3,000
29 Adjust Water Meter	\$610.00 / EA	1	\$1,000
30 Adjust Water Valve	\$610.00 / EA	7	\$4,000
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	4	\$2,000
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	800	\$6,000
34 Construct AC Pavement	\$6.00 / SF	7,380	\$44,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$2.00 / LF	9,720	\$19,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	1,420	\$27,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	6,690	\$61,000
45 Construct Wheelchair Ramp	\$5,200.00 / EA	2	\$10,000
46 Construct Retaining Wall	\$114 / SF	3,820	\$435,000
46.1 Remove Retaining Wall	\$74.00 / SF	180	\$13,000
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$99,000
54 SWPPP Plan and Implementation	6%	1	\$80,000
CONSTRUCTION SUBTOTAL			\$1,574,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$57,000
CONSTRUCTION SUBTOTAL			\$1,631,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$126,000
CONSTRUCTION SUBTOTAL			\$1,505,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$98,000
CONSTRUCTION SUBTOTAL			\$1,407,000
Right-of-Way	\$71.66 / SF	6,660	\$477,000
Right-of-Way Management	5%		\$24,000
RIGHT-OF-WAY SUBTOTAL			\$501,000
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$1,908,000
Preliminary Project Development (10% of total Construction Cost)			\$141,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$212,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$212,000
Contingency (20% of total Construction Cost)			\$282,000
TOTAL PROJECT COSTS			\$2,755,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #379. Lake Forest Dr to Muirlands Blvd
Mitigation: + Convert NB RT lane to 4th T lane
(Remove 2 Type IV(R) arrows (26sf))

Date: 6/11/2012
Originally Estimated by: RBF
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$2,000
2	Clear & Grub	\$12200 / AC	0.0	\$0
3	Earthwork	\$46.00 / CY	0	\$0
4	Remove Striping	\$13.00 / LF	300	\$4,000
5	Remove Curb & Gutter	\$36.00 / LF	0	\$0
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8	Remove Pavement	\$5.00 / SF	0	\$0
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	0	\$0
14	Relocate Street Light	\$5,700.00 / EA	0	\$0
15	Relocate Traffic Signal System	\$225,000.00 / EA	0.00	\$0
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	0	\$0
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$2.00 / LF	300	\$1,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	0	\$0
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45	Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$2,000
54	SWPPP Plan and Implementation	6%	0	\$0
	CONSTRUCTION SUBTOTAL			\$9,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$324
	CONSTRUCTION SUBTOTAL			\$9,324
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$1,000
	CONSTRUCTION SUBTOTAL			\$8,324
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$1,000
	CONSTRUCTION SUBTOTAL			\$7,324
	Right-of-Way	\$71.66 / SF	0	\$0
	Right-of-Way Management	5%		\$0
	RIGHT-OF-WAY SUBTOTAL			\$0
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$7,324
	Preliminary Project Development (10% of total Construction Cost)			\$1,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$2,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$2,000
	Contingency (20% of total Construction Cost)			\$2,000
	TOTAL PROJECT COSTS			\$14,324

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #383. Lake Forest Dr at Avenida De La Carlota/I-5 SB ramps

Date: 6/11/2012

Mitigation: + Restripe EB approach to provide 3 LT lanes, 0.5 T lanes, and 1.5 RT lanes
+ Add 2nd WB LT lane, provide WB RT overlap with SB LT

Originally Estimated by: RBF, PBS&J

Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$48,000
2 Clear & Grub	\$12200 / AC	0.1	\$1,000
3 Earthwork	\$46.00 / CY	160	\$7,000
4 Remove Striping	\$13.00 / LF	500	\$7,000
5 Remove Curb & Gutter	\$36.00 / LF	200	\$7,000
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00/ SF	1,400	\$7,000
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	200	\$0
14 Relocate Street Light	\$5,700.00 / EA	2	\$11,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	0.25	\$56,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	3	\$1,000
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	2	\$10,000
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	6	\$5,000
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	1	\$10,000
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	3	\$2,000
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	2	\$1,000
32 Modify Driveway	\$6,100.00 / LS	1	\$6,000
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	3,220	\$19,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	15,000	\$6,000
37 Construct Striping & Marking	\$2.00 / LF	700	\$1,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	200	\$4,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	1,400	\$13,000
45 Construct Wheelchair Ramp	\$5,200.00 / EA	1	\$5,000
46 Construct Retaining Wall	\$114 / SF	760	\$87,000
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	2	\$1,000
49 Construct Concrete V-Ditch	\$19.00/ LF	2	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	1	\$113,000
53 Traffic Control	8% (\$2,000 Min)	1	\$30,000
54 SWPPP Plan and Implementation	6%	1	\$25,000
CONSTRUCTION SUBTOTAL			\$483,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$17,000
CONSTRUCTION SUBTOTAL			\$500,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$39,000
CONSTRUCTION SUBTOTAL			\$461,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$30,000
CONSTRUCTION SUBTOTAL			\$431,000
Right-of-Way	\$71.66 / SF	2,300	\$165,000
Right-of-Way Management	5%		\$8,000
RIGHT-OF-WAY SUBTOTAL			\$173,000
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$604,000
Preliminary Project Development (10% of total Construction Cost)			\$44,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$65,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$65,000
Contingency (20% of total Construction Cost)			\$87,000
TMSOS Allowance			\$272,000
TOTAL PROJECT COSTS			\$1,137,000

Item differs from other cost estimate sheets

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010 COST ESTIMATES**

Location: #406. Laguna Canyon Rd at Lake Forest Drive (Future)
Mitigation: + Add 3rd SB LT lane

Date: 9/16/2010
Originally Estimated by: RBF
Revised by: PM

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$206,000
2	Clear & Grub	\$12200 / AC	2.2	\$27,000
3	Earthwork	\$46.00 / CY	27,300	\$1,256,000
4	Remove Striping	\$13.00 / LF	1,250	\$16,000
5	Remove Curb & Gutter	\$36.00 / LF	900	\$32,000
6	Remove Median Curb	\$37.00 / LF	500	\$19,000
7	Remove PCC Sidewalk	\$5.00/ SF	8,100	\$41,000
8	Remove Pavement	\$5.00 / SF	0	\$0
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	1,400	\$2,000
14	Relocate Street Light	\$5,700.00 / EA	0	\$0
15	Relocate Traffic Signal System	\$225,000.00 / EA	0.00	\$0
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	9,440	\$57,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$2.00 / LF	1,550	\$3,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	900	\$17,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	500	\$16,000
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	5,400	\$70,000
44	Construct PCC Sidewalk	\$9.05 / SF	7,200	\$65,000
45	Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$130,000
54	SWPPP Plan and Implementation	6%	1	\$105,000
	CONSTRUCTION SUBTOTAL			\$2,062,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$74,000
	CONSTRUCTION SUBTOTAL			\$2,136,000
	California Highway Price Index			
	CONSTRUCTION SUBTOTAL		2010 Actual Cost ¹	\$155,366
	Right-of-Way	\$35.18 / SF	5,800	\$204,044
	Right-of-Way Management	5%		\$10,202
	RIGHT-OF-WAY SUBTOTAL			\$214,246
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$369,612
	Preliminary Project Development (10% of total Construction Cost)			
	Design Engineering/Administration Costs (15% of total Construction Cost)			
	Construction Engineering Costs/Administration (15% of total Construction Cost)			
	Contingency (20% of total Construction Cost)			
	TOTAL PROJECT COSTS (ACTUAL COST¹)			\$369,612

¹ = Per Fee Credit Memo (Revised 08/09/2010)

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #407, Laguna Canyon Rd at Bake Pkwy
Mitigation: + Add 3rd NB T lane

Date: 6/11/2012
Originally Estimated by: RBF
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$77,000
2	Clear & Grub	\$12200 / AC	1	\$12,000
3	Earthwork	\$46.00 / CY	3,500	\$161,000
4	Remove Striping	\$13.00 / LF	1,700	\$22,000
5	Remove Curb & Gutter	\$36.00 / LF	0	\$0
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00/ SF	0	\$0
8	Remove Pavement	\$5.00 / SF	4,000	\$20,000
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	1,700	\$2,000
14	Relocate Street Light	\$5,700.00 / EA	0	\$0
15	Relocate Traffic Signal System	\$225,000.00 / EA	0.50	\$113,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	20,400	\$122,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$2.00 / LF	1,700	\$3,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	0	\$0
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	300	\$9,000
42	Construct Median Concrete	\$7.9 / SF	1,700	\$13,000
43	Construct Median/Parkway Landscaping	\$13.00 / SF	5,400	\$70,000
44	Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45	Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Drainage Allowance	10% / LS	1	\$55,000
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$48,000
54	SWPPP Plan and Implementation	6%	1	\$39,000
	CONSTRUCTION SUBTOTAL			\$766,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$28,000
	CONSTRUCTION SUBTOTAL			\$794,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$61,000
	CONSTRUCTION SUBTOTAL			\$733,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$48,000
	CONSTRUCTION SUBTOTAL			\$685,000
	Right-of-Way	\$35.19 / SF	0	\$0
	Right-of-Way Management	5%		\$0
	RIGHT-OF-WAY SUBTOTAL			\$0
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$685,000
	Preliminary Project Development (10% of total Construction Cost)			\$69,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$103,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$103,000
	Contingency (20% of total Construction Cost)			\$137,000
	TOTAL PROJECT COSTS			\$1,097,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #228. Culver Dr at Barranca Pkwy
Mitigation: + Convert WB defacto RT lane to 3rd T lane

Date: 6/11/2012
Originally Estimated by: RBF
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$43,000
2	Clear & Grub	\$12200 / AC	0.2	\$2,000
3	Earthwork	\$46.00 / CY	780	\$36,000
4	Remove Striping	\$13.00 / LF	800	\$10,000
5	Remove Curb & Gutter	\$36.00 / LF	600	\$22,000
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00/ SF	3,000	\$15,000
8	Remove Pavement	\$5.00 / SF	600	\$3,000
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	15	\$20,000
13	Sawcut	\$1.25 / LF	600	\$1,000
14	Relocate Street Light	\$5,700.00 / EA	0	\$0
15	Relocate Traffic Signal System	\$225,000.00 / EA	0.50	\$113,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	1	\$10,000
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	1	\$1,000
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	1	\$2,000
29	Adjust Water Meter	\$610.00 / EA	7	\$4,000
30	Adjust Water Valve	\$610.00 / EA	2	\$1,000
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	6,270	\$38,000
35	Construct AC Overlay	\$2.50 / SF	1,200	\$3,000
36	Construct Slurry Seal	\$0.4 / SF	18,400	\$7,000
37	Construct Striping & Marking	\$2.00 / LF	1,000	\$2,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	500	\$10,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	70	\$2,000
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	3000	\$27,000
45	Construct Wheelchair Ramp	\$5,200.00 / EA	2	\$10,000
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$27,000
54	SWPPP Plan and Implementation	6%	1	\$22,000
	CONSTRUCTION SUBTOTAL			\$431,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$16,000
	CONSTRUCTION SUBTOTAL			\$447,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$34,000
	CONSTRUCTION SUBTOTAL			\$413,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$27,000
	CONSTRUCTION SUBTOTAL			\$386,000
	Right-of-Way	\$35.19 / SF	3,270	\$115,000
	Right-of-Way Management	5%		\$6,000
	RIGHT-OF-WAY SUBTOTAL			\$121,000
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$507,000
	Preliminary Project Development (10% of total Construction Cost)			\$39,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$58,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$58,000
	Contingency (20% of total Construction Cost)			\$78,000
	TOTAL PROJECT COSTS			\$740,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #290, Jeffrey Rd at Barranca Pkwy
Mitigation: + Add NB & SB defacto RT lanes

Date: 6/11/2012
Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$32,000
2 Clear & Grub	\$12200 / AC	0.04	\$1,000
3 Earthwork	\$46.00 / CY	250	\$12,000
4 Remove Striping	\$13.00 / LF	0	\$0
5 Remove Curb & Gutter	\$36.00 / LF	950	\$34,000
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	1625	\$8,000
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	15	\$20,000
13 Sawcut	\$1.25 / LF	900	\$1,000
14 Relocate Street Light	\$5,700.00 / EA	1	\$6,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	0.50	\$113,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	4	\$4,000
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	1	\$10,000
28 Adjust Manhole to Grade	\$1,500.00 / EA	1	\$2,000
29 Adjust Water Meter	\$610.00 / EA	3	\$2,000
30 Adjust Water Valve	\$610.00 / EA	1	\$1,000
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	3	\$2,000
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	1,660	\$10,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$2.00 / LF	0	\$0
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	950	\$18,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	2	\$10,000
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$20,000
54 SWPPP Plan and Implementation	6%	1	\$16,000
CONSTRUCTION SUBTOTAL			\$322,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$12,000
CONSTRUCTION SUBTOTAL			\$334,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$26,000
CONSTRUCTION SUBTOTAL			\$308,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$20,000
CONSTRUCTION SUBTOTAL			\$288,000
Right-of-Way	\$71.66 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$288,000
Preliminary Project Development (10% of total Construction Cost)			\$29,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$44,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$44,000
Contingency (20% of total Construction Cost)			\$58,000
TOTAL PROJECT COSTS			\$463,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #293, Jeffrey Rd at I-405 NB ramps
Mitigation: + Add 3rd WB LT lane

Date: 6/11/2012
Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$61,000
2 Clear & Grub	\$12200 / AC	0.3	\$4,000
3 Earthwork	\$46.00 / CY	1,510	\$69,000
4 Remove Striping	\$13.00 / LF	440	\$6,000
5 Remove Curb & Gutter	\$36.00 / LF	200	\$7,000
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	930	\$5,000
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	500	\$1,000
14 Relocate Street Light	\$5,700.00 / EA	0	\$0
15 Relocate Traffic Signal System	\$225,000.00 / EA	0.50	\$113,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	2	\$1,000
17 Relocate Sign (1 post)	\$220.00 / EA	4	\$1,000
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	5,350	\$32,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$2.00 / LF	880	\$2,000
38 Construct AC Dike	\$4.00 / LF	300	\$1,000
39 Construct Curb & Gutter	\$19.00 / LF	200	\$4,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	910	\$8,000
45 Construct Wheelchair Ramp	\$5,200.00 / EA	1	\$5,000
46 Construct Retaining Wall	\$114 / SF	1,600	\$182,000
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$36,600.00 / LS	1	\$37,000
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$38,000
54 SWPPP Plan and Implementation	6%	1	\$31,000
CONSTRUCTION SUBTOTAL			\$608,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$22,000
CONSTRUCTION SUBTOTAL			\$630,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$49,000
CONSTRUCTION SUBTOTAL			\$581,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$38,000
CONSTRUCTION SUBTOTAL			\$543,000
Right-of-Way	\$71.66 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$543,000
Preliminary Project Development (10% of total Construction Cost)			\$55,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$82,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$82,000
Contingency (20% of total Construction Cost)			\$109,000
TOTAL PROJECT COSTS			\$871,000

Item differ from other cost estimate sheets

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #327. Barranca Pkwy at Technology Dr

Date: 6/11/2012

Mitigation: + Add 2nd SB LT lane and restripe EB approach to provide 1 LT lane,
1.5 T lanes and 1.5 RT lanes

Originally Estimated by: RBF

Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$41,000
2	Clear & Grub	\$12200 / AC	0.1	\$1,000
3	Earthwork	\$46.00 / CY	450	\$21,000
4	Remove Striping	\$13.00 / LF	1,350	\$18,000
5	Remove Curb & Gutter	\$36.00 / LF	400	\$14,000
6	Remove Median Curb	\$37.00 / LF	360	\$13,000
7	Remove PCC Sidewalk	\$5.00/ SF	2,200	\$11,000
8	Remove Pavement	\$5.00 / SF	370	\$2,000
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	13	\$17,000
13	Sawcut	\$1.25 / LF	730	\$1,000
14	Relocate Street Light	\$5,700.00 / EA	1	\$6,000
15	Relocate Traffic Signal System	\$225,000.00 / EA	0.25	\$56,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	1	\$0
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	1	\$10,000
22	Relocate Fire Hydrant	\$5,000.00 / EA	1	\$5,000
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	2	\$2,000
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	4	\$2,000
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	2	\$1,000
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	6,700	\$40,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	13,400	\$5,000
37	Construct Striping & Marking	\$2.00 / LF	1,610	\$3,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	400	\$8,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	360	\$11,000
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	4,000	\$52,000
44	Construct PCC Sidewalk	\$9.05 / SF	2,400	\$22,000
45	Construct Wheelchair Ramp	\$5,200.00 / EA	1	\$5,000
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$26,000
54	SWPPP Plan and Implementation	6%	1	\$21,000
	CONSTRUCTION SUBTOTAL			\$414,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$15,000
	CONSTRUCTION SUBTOTAL			\$429,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$33,000
	CONSTRUCTION SUBTOTAL			\$396,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$26,000
	CONSTRUCTION SUBTOTAL			\$370,000
	Right-of-Way	\$71.66 / SF	1,800	\$129,000
	Right-of-Way Management			\$0
	RIGHT-OF-WAY SUBTOTAL			\$129,000
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$499,000
	Preliminary Project Development (10% of total Construction Cost)			\$37,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$56,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$56,000
	Contingency (20% of total Construction Cost)			\$74,000
	TOTAL PROJECT COSTS			\$722,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #344. Alton Pkwy at Technology Dr

Date: 6/11/2012

Mitigation: + Restripe WB approach to provide 2.5 LT lanes, 1.5 T lanes, and no RT lane Originally Estimated by: RBF
+ Restripe EB approach to provide 1.5 LT lanes, 1.5 T lanes, and 2 RT lane Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$2,000
2	Clear & Grub	\$12200 / AC	0.0	\$0
3	Earthwork	\$46.00 / CY	0	\$0
4	Remove Striping	\$13.00 / LF	400	\$5,000
5	Remove Curb & Gutter	\$36.00 / LF	0	\$0
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8	Remove Pavement	\$5.00 / SF	0	\$0
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	0	\$0
14	Relocate Street Light	\$5,700.00 / EA	0	\$0
15	Relocate Traffic Signal System	\$225,000.00 / EA	0.00	\$0
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	0	\$0
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$2.00 / LF	400	\$1,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	0	\$0
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45	Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$2,000
54	SWPPP Plan and Implementation	6%	0	\$0
	CONSTRUCTION SUBTOTAL			\$10,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$360
	CONSTRUCTION SUBTOTAL			\$10,360
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$1,000
	CONSTRUCTION SUBTOTAL			\$9,360
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$1,000
	CONSTRUCTION SUBTOTAL			\$8,360
	Right-of-Way	\$71.66 / SF	0	\$0
	Right-of-Way Management	5%		\$0
	RIGHT-OF-WAY SUBTOTAL			\$0
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$8,360
	Preliminary Project Development (10% of total Construction Cost)			\$1,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$2,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$2,000
	Contingency (20% of total Construction Cost)			\$2,000
	TOTAL PROJECT COSTS			\$15,360

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #348. Alton Pkwy at Irvine Center Drive (Alt.1)

Date: 6/11/2012

Mitigation: Convert NB RT lane to free RT lane. Add 4th NB T lane
Restripe WB approach to provide 2 LT lane, 2.5 T lanes and 1.5 RT lanes

Originally Estimated by: RBF
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$121,000
2	Clear & Grub	\$12200 / AC	0.9	\$11,000
3	Earthwork	\$46.00 / CY	4,500	\$207,000
4	Remove Striping	\$13.00 / LF	1,400	\$18,000
5	Remove Curb & Gutter	\$36.00 / LF	1,250	\$45,000
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00/ SF	5,400	\$27,000
8	Remove Pavement	\$5.00 / SF	300	\$2,000
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	30	\$39,000
13	Sawcut	\$1.25 / LF	1,250	\$2,000
14	Relocate Street Light	\$5,700.00 / EA	3	\$17,000
15	Relocate Traffic Signal System	\$225,000.00 / EA	0.75	\$169,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	4	\$1,000
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	3	\$29,000
22	Relocate Fire Hydrant	\$5,000.00 / EA	5	\$25,000
23	Relocate Bus Bench	\$1,458.00/ EA	2	\$3,000
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	5	\$4,000
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	5	\$50,000
28	Adjust Manhole to Grade	\$1,500.00 / EA	5	\$8,000
29	Adjust Water Meter	\$610.00 / EA	1	\$1,000
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	3	\$2,000
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	14,500	\$87,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$2.00 / LF	1,400	\$3,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	1,250	\$24,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	200	\$6,000
42	Construct Median Concrete	\$7.9 / SF	1,500	\$12,000
43	Construct Median/Parkway Landscaping	\$13.00 / SF	6,250	\$81,000
44	Construct PCC Sidewalk	\$9.05 / SF	5,400	\$49,000
45	Construct Wheelchair Ramp	\$5,200.00 / EA	5	\$26,000
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$76,000
54	SWPPP Plan and Implementation	6%	1	\$61,000
	CONSTRUCTION SUBTOTAL			\$1,206,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$43,000
	CONSTRUCTION SUBTOTAL			\$1,249,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$96,000
	CONSTRUCTION SUBTOTAL			\$1,153,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$75,000
	CONSTRUCTION SUBTOTAL			\$1,078,000
	Right-of-Way (2007)	\$71.66 / SF	9,700	\$695,000
	Right-of-Way Management	5%		\$35,000
	2007 RIGHT-OF-WAY SUBTOTAL			\$730,000
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$1,808,000
	Preliminary Project Development (10% of total Construction Cost)			\$108,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$162,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$162,000
	Contingency (20% of total Construction Cost)			\$216,000
	TOTAL PROJECT COSTS			\$2,456,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #358, Irvine Center Dr at Enterprise Dr
Mitigation: + Add 3rd NB T lane

Date: 6/11/2012
Originally Estimated by: RBF
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$2,000
2	Clear & Grub	\$12200 / AC	0.0	\$0
3	Earthwork	\$46.00 / CY	0	\$0
4	Remove Striping	\$13.00 / LF	500	\$7,000
5	Remove Curb & Gutter	\$36.00 / LF	0	\$0
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00/ SF	0	\$0
8	Remove Pavement	\$5.00 / SF	0	\$0
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	0	\$0
14	Relocate Street Light	\$5,700.00 / EA	0	\$0
15	Relocate Traffic Signal System	\$225,000.00 / EA	0.00	\$0
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	0	\$0
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	19,500	\$8,000
37	Construct Striping & Marking	\$2.00 / LF	500	\$1,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	0	\$0
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45	Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$2,000
54	SWPPP Plan and Implementation	6%	0	\$0
	CONSTRUCTION SUBTOTAL			\$20,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$1,000
	CONSTRUCTION SUBTOTAL			\$21,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$2,000
	CONSTRUCTION SUBTOTAL			\$19,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$1,000
	CONSTRUCTION SUBTOTAL			\$18,000
	Right-of-Way	\$71.66 / SF	0	\$0
	Right-of-Way Management	5%		\$0
	RIGHT-OF-WAY SUBTOTAL			\$0
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$18,000
	Preliminary Project Development (10% of total Construction Cost)			\$2,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$3,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$3,000
	Contingency (20% of total Construction Cost)			\$4,000
	TOTAL PROJECT COSTS			\$30,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #359, Irvine Center Dr at I-405 SB Ramps
Mitigation: + Add 3rd SB T lane and 3rd EB LT lane

Date: 6/11/2012
Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$58,000
2 Clear & Grub	\$12200 / AC	0.1	\$1,000
3 Earthwork	\$46.00 / CY	600	\$28,000
4 Remove Striping	\$13.00 / LF	2,500	\$33,000
5 Remove Curb & Gutter	\$36.00 / LF	600	\$22,000
6 Remove Median Curb	\$37.00 / LF	150	\$6,000
7 Remove PCC Sidewalk	\$5.00/ SF	600	\$3,000
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00/ LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	600	\$1,000
14 Relocate Street Light	\$5,700.00 / EA	1	\$6,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	1.00	\$225,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	5	\$50,000
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	3,600	\$22,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	25,000	\$10,000
37 Construct Striping & Marking	\$2.00 / LF	2,850	\$6,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	600	\$11,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	100	\$3,000
42 Construct Median Concrete	\$7.9 / SF	650	\$5,000
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	500	\$5,000
45 Construct Wheelchair Ramp	\$5,200.00 / EA	4	\$21,000
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$37,000
54 SWPPP Plan and Implementation	6%	1	\$30,000
CONSTRUCTION SUBTOTAL			\$583,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$21,000
CONSTRUCTION SUBTOTAL			\$604,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$47,000
CONSTRUCTION SUBTOTAL			\$557,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$36,000
CONSTRUCTION SUBTOTAL			\$521,000
Right-of-Way (2007)	\$71.66 / SF	0	\$0
Right-of-Way Management	5%		\$0
2007 RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$521,000
Preliminary Project Development (10% of total Construction Cost)			\$53,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$79,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$79,000
Contingency (20% of total Construction Cost)			\$105,000
TOTAL PROJECT COSTS			\$837,000

* Notes:

A. Cost estimate was based on aerial photos and 2003 layout.

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #378. Lake Forest Dr at Jeronimo Rd

Date: 6/11/2012

Mitigation: + Add 2nd SB LT lane and separate EB & WB RT lanes

Originally Estimated by: RBF

Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$121,000
2 Clear & Grub	\$12200 / AC	0.2	\$2,000
3 Earthwork	\$46.00 / CY	1,080	\$50,000
4 Remove Striping	\$13.00 / LF	1,900	\$25,000
5 Remove Curb & Gutter	\$36.00 / LF	1,420	\$51,000
6 Remove Median Curb	\$37.00 / LF	560	\$21,000
7 Remove PCC Sidewalk	\$5.00 / SF	11,360	\$57,000
8 Remove Pavement	\$5.00 / SF	1,380	\$7,000
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	21	\$27,000
13 Sawcut	\$1.25 / LF	1,420	\$2,000
14 Relocate Street Light	\$5,700.00 / EA	1	\$6,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	1.00	\$225,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	1	\$10,000
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	2	\$2,000
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	1	\$2,000
29 Adjust Water Meter	\$610.00 / EA	5	\$3,000
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	3	\$2,000
32 Modify Driveway	\$6,100.00 / LS	1	\$6,000
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	11,710	\$70,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	69,760	\$28,000
37 Construct Striping & Marking	\$2.00 / LF	1,900	\$4,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	1,420	\$27,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	560	\$17,000
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	1,680	\$22,000
44 Construct PCC Sidewalk	\$9.05 / SF	10,900	\$99,000
45 Construct Wheelchair Ramp	\$5,200.00 / EA	4	\$21,000
46 Construct Retaining Wall	\$114 / SF	1,480	\$169,000
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$76,000
54 SWPPP Plan and Implementation	6%	1	\$62,000
CONSTRUCTION SUBTOTAL			\$1,214,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$44,000
CONSTRUCTION SUBTOTAL			\$1,258,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$97,000
CONSTRUCTION SUBTOTAL			\$1,161,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$75,000
CONSTRUCTION SUBTOTAL			\$1,086,000
Right-of-Way	\$71.66 / SF	7,850	\$563,000
Right-of-Way Management	5%		\$28,000
RIGHT-OF-WAY SUBTOTAL			\$591,000
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$1,677,000
Preliminary Project Development (10% of total Construction Cost)			\$109,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$163,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$163,000
Contingency (20% of total Construction Cost)			\$218,000
TOTAL PROJECT COSTS			\$2,330,000

* Notes:

A. Cost estimate was based on aerial photos and 2003 layout. 2003 layout does not show all mitigations.

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #380. Lake Forest Dr to Rockfield Blvd
Mitigation: + Restripe WB approach to provide 3 LT lanes,
2 T lanes, and no RT lane
(Remove 2 Type IV(R) arrows and restripe lane-lines.)

Date: 6/11/2012
Originally Estimated by: RBF
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$2,000
2	Clear & Grub	\$12200 / AC	0.0	\$0
3	Earthwork	\$46.00 / CY	0	\$0
4	Remove Striping	\$13.00 / LF	850	\$11,000
5	Remove Curb & Gutter	\$36.00 / LF	0	\$0
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8	Remove Pavement	\$5.00 / SF	0	\$0
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Bean Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	0	\$0
14	Relocate Street Light	\$5,700.00 / EA	0	\$0
15	Relocate Traffic Signal System	\$225,000.00 / EA	0.00	\$0
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	0	\$0
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$2.00 / LF	850	\$2,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	0	\$0
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45	Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$2,000
54	SWPPP Plan and Implementation	6%	1	\$1,000
	CONSTRUCTION SUBTOTAL			\$18,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$1,000
	CONSTRUCTION SUBTOTAL			\$19,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$1,000
	CONSTRUCTION SUBTOTAL			\$18,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$1,000
	CONSTRUCTION SUBTOTAL			\$17,000
	Right-of-Way	\$71.66 / SF	0	\$0
	Right-of-Way Management	5%		\$0
	RIGHT-OF-WAY SUBTOTAL			\$0
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$17,000
	Preliminary Project Development (10% of total Construction Cost)			\$2,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$3,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$3,000
	Contingency (20% of total Construction Cost)			\$4,000
	TOTAL PROJECT COSTS			\$29,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #387. Ridge Route Dr at Rockfield Blvd

Date: 6/11/2012

Mitigation: + Improve SB approach to provide 1.5 LT lanes, 1.5 T lanes,
+ and 1 defacto RT lane. Restripe NB approach to provide 1.5 LT lanes,
1.5 T lanes, and a defacto RT lane

Originally Estimated by: RBF
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$12,000
2	Clear & Grub	\$12200 / AC	0.2	\$2,000
3	Earthwork	\$46.00 / CY	0	\$0
4	Remove Striping	\$13.00 / LF	400	\$5,000
5	Remove Curb & Gutter	\$36.00 / LF	0	\$0
6	Remove Median Curb	\$37.00 / LF	900	\$33,000
7	Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8	Remove Pavement	\$5.00 / SF	0	\$0
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	0	\$0
14	Relocate Street Light	\$5,700.00 / EA	2	\$11,000
15	Relocate Traffic Signal System	\$225,000.00 / EA	0.00	\$0
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	7,800	\$47,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$2.00 / LF	400	\$1,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	0	\$0
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45	Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$8,000
54	SWPPP Plan and Implementation	6%	0	\$0
CONSTRUCTION SUBTOTAL				\$119,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$4,000
CONSTRUCTION SUBTOTAL				\$123,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$9,000
CONSTRUCTION SUBTOTAL				\$114,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$7,000
CONSTRUCTION SUBTOTAL				\$107,000
	Right-of-Way	\$71.66 / SF	0	\$0
	Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL				\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST				\$107,000
	Preliminary Project Development (10% of total Construction Cost)			\$11,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$17,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$17,000
	Contingency (20% of total Construction Cost)			\$22,000
TOTAL PROJECT COSTS				\$174,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #390. Paseo de Valencia at Avenida De La Carlota

Date: 6/11/2012

Mitigation: + Restripe SB approach to provide 2.5 LT lanes, 1.5 T lanes, no RT lane
+ Construct 3rd EB receiving lane for 3rd SB LT lane

Originally Estimated by: RBF

Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$27,000
2	Clear & Grub	\$12200 / AC	0.1	\$1,000
3	Earthwork	\$46.00 / CY	400	\$18,000
4	Remove Striping	\$13.00 / LF	700	\$9,000
5	Remove Curb & Gutter	\$36.00 / LF	450	\$16,000
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00/ SF	3,600	\$18,000
8	Remove Pavement	\$5.00 / SF	0	\$0
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Bean Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	450	\$500
14	Relocate Street Light	\$5,700.00 / EA	0	\$0
15	Relocate Traffic Signal System	\$225,000.00 / EA	0.25	\$56,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	2	\$1,000
17	Relocate Sign (1 post)	\$220.00 / EA	4	\$1,000
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22	Relocate Fire Hydrant	\$5,000.00 / EA	1	\$5,000
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	3	\$3,000
26	Relocate Main Water Valve	\$12,200.00 / EA	1	\$12,000
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	2	\$1,000
30	Adjust Water Valve	\$610.00 / EA	5	\$3,000
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	1	\$1,000
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	3,800	\$23,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	15,100	\$6,000
37	Construct Striping & Marking	\$2.00 / LF	700	\$1,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	450	\$9,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	2,250	\$20,000
45	Construct Wheelchair Ramp	\$5,200.00 / EA	1	\$5,000
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$17,000
54	SWPPP Plan and Implementation	6%	1	\$14,000
	CONSTRUCTION SUBTOTAL			\$268,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$10,000
	CONSTRUCTION SUBTOTAL			\$278,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$21,000
	CONSTRUCTION SUBTOTAL			\$257,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$17,000
	CONSTRUCTION SUBTOTAL			\$240,000
	Right-of-Way	\$71.66 / SF	3,800	\$272,000
	Right-of-Way Management	5%		\$14,000
	RIGHT-OF-WAY SUBTOTAL			\$286,000
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$526,000
	Preliminary Project Development (10% of total Construction Cost)			\$24,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$36,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$36,000
	Contingency (20% of total Construction Cost)			\$48,000
	TOTAL PROJECT COSTS			\$670,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #396. El Toro Rd at Avenida De La Carlota

Date: 6/11/2012

Mitigation: + Restripe EB approach to provide 2 LT lanes, 2 T lanes, and no RT lanes

Originally Estimated by: RBF, PBS&J

+ Restripe WB approach to provide 0.5 LT lane, 1.5 T lanes, and 2 RT lanes

Revised by: HA

(Remove 10 Type VII, and 4 Type IV arrows. Install 2 Type VII, and 4 Type IV arrows.)

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$2,000
2	Clear & Grub	\$12200 / AC		\$0
3	Earthwork	\$46.00 / CY		\$0
4	Remove Striping	\$13.00 / LF	200	\$3,000
5	Remove Curb & Gutter	\$36.00 / LF		\$0
6	Remove Median Curb	\$37.00 / LF		\$0
7	Remove PCC Sidewalk	\$5.00 / SF		\$0
8	Remove Pavement	\$5.00 / SF		\$0
9	Remove Channel	\$19.00 / LF		\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF		\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF		\$0
12	Remove & Relocate Tree	\$1,300.00 / EA		\$0
13	Sawcut	\$1.25 / LF		\$0
14	Relocate Street Light	\$5,700.00 / EA		\$0
15	Relocate Traffic Signal System	\$225,000.00 / EA		\$0
16	Relocate Freeway Sign (2 post)	\$700.00 / EA		\$0
17	Relocate Sign (1 post)	\$220.00 / EA		\$0
18	Reconstruct Overhead Sign	\$240,000.00 / EA		\$0
19	Relocate Call Box	\$2,051.00/EA		\$0
20	Relocate Power Pole	\$25,000 / EA		\$0
21	Relocate Catch Basin	\$9,760.00 / EA		\$0
22	Relocate Fire Hydrant	\$5,000.00 / EA		\$0
23	Relocate Bus Bench	\$1,458.00/ EA		\$0
24	Relocate Monument Wall	\$6,100.00 / EA		\$0
25	Relocate Utility Boxes	\$895.00 / EA		\$0
26	Relocate Main Water Valve	\$12,200.00 / EA		\$0
27	Relocate Utility Vault	\$10,000 / EA		\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA		\$0
29	Adjust Water Meter	\$610.00 / EA		\$0
30	Adjust Water Valve	\$610.00 / EA		\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA		\$0
32	Modify Driveway	\$6,100.00 / LS		\$0
33	Construct PCC Pavement	\$7.50 / SF		\$0
34	Construct AC Pavement	\$6.00 / SF		\$0
35	Construct AC Overlay	\$2.50 / SF		\$0
36	Construct Slurry Seal	\$0.4 / SF		\$0
37	Construct Striping & Marking	\$2.00 / LF	100	\$0
38	Construct AC Dike	\$4.00 / LF		\$0
39	Construct Curb & Gutter	\$19.00 / LF		\$0
40	Construct Concrete Barrier	\$295.00 / LF		\$0
41	Construct Median Curb	\$31.00 / LF		\$0
42	Construct Median Concrete	\$7.9 / SF		\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF		\$0
44	Construct PCC Sidewalk	\$9.05 / SF		\$0
45	Construct Wheelchair Ramp	\$5,200.00 / EA		\$0
46	Construct Retaining Wall	\$114 / SF		\$0
47	Construct Storm Drain Main	\$122.00 / LF		\$0
48	Construct RCB	\$549.00 / CY		\$0
49	Construct Concrete V-Ditch	\$19.00 / LF		\$0
50	Construct Bridge Widening	\$500.00 / SF		\$0
51	Install Ramp Metering System	\$80,000.00 / EA		\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$2,000
54	SWPPP Plan and Implementation	6%	0	\$0
	CONSTRUCTION SUBTOTAL			\$7,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$252
	CONSTRUCTION SUBTOTAL			\$7,252
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$558
	CONSTRUCTION SUBTOTAL			\$6,694
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$435
	CONSTRUCTION SUBTOTAL			\$6,259
	Right-of-Way	\$71.66 / SF	0	\$0
	Right-of-Way Management	5%		\$0
	RIGHT-OF-WAY SUBTOTAL			\$0
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$6,259
	Preliminary Project Development (10% of total Construction Cost)			\$1,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$1,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$1,000
	Contingency (20% of total Construction Cost)			\$2,000
	TOTAL PROJECT COSTS			\$11,259

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #420. El Toro Rd at Jeronimo Rd

Date: 6/11/2012

Mitigation: + Add 2nd SB LT lane, convert NB RT lane into 4th T lane
+ Convert SB defacto lane to 4th T lane, and add EB RT lane

Originally Estimated by: RBF, PBS&J

Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$300,000
2 Clear & Grub	\$12200 / AC	0.1	\$1,000
3 Earthwork	\$46.00 / CY	1,200	\$55,000
4 Remove Striping	\$13.00 / LF	10,600	\$138,000
5 Remove Curb & Gutter	\$36.00 / LF	2,300	\$83,000
6 Remove Median Curb	\$37.00 / LF	55	\$2,000
7 Remove PCC Sidewalk	\$5.00 / SF	17,800	\$89,000
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	20	\$26,000
13 Sawcut	\$1.25 / LF	2,300	\$3,000
14 Relocate Street Light	\$5,700.00 / EA	3	\$17,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	1.25	\$281,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	11	\$2,000
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	9	\$225,000
21 Relocate Catch Basin	\$9,760.00 / EA	2	\$20,000
22 Relocate Fire Hydrant	\$5,000.00 / EA	1	\$5,000
23 Relocate Bus Bench	\$1,458.00/ EA	2	\$3,000
24 Relocate Monument Wall	\$6,100.00 / EA	1	\$6,000
25 Relocate Utility Boxes	\$895.00 / EA	11	\$10,000
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	3	\$30,000
28 Adjust Manhole to Grade	\$1,500.00 / EA	6	\$9,000
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	10	\$6,000
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	8	\$5,000
32 Modify Driveway	\$6,100.00 / LS	2	\$12,000
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	10,200	\$61,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	165,000	\$66,000
37 Construct Striping & Marking	\$2.00 / LF	10,800	\$22,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	2,300	\$44,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	13,500	\$122,000
45 Construct Wheelchair Ramp	\$5,200.00 / EA	4	\$21,000
46 Construct Retaining Wall	\$114 / SF	5,300	\$604,000
46.1 Remove Retaining Wall	\$74.00/SF	5,300	\$392,000
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RC Box	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$189,000
54 SWPPP Plan and Implementation	6%	1	\$153,000
CONSTRUCTION SUBTOTAL			\$3,002,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$108,000
CONSTRUCTION SUBTOTAL			\$3,110,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$239,000
CONSTRUCTION SUBTOTAL			\$2,871,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$187,000
CONSTRUCTION SUBTOTAL			\$2,684,000
Right-of-Way	\$71.66 / SF	11,100	\$795,000
Right-of-Way Management	5%		\$40,000
RIGHT-OF-WAY SUBTOTAL			\$835,000
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$3,519,000
Preliminary Project Development (10% of total Construction Cost)			\$269,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$403,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$403,000
Contingency (20% of total Construction Cost)			\$537,000
TOTAL PROJECT COSTS			\$5,131,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #422. Los Alisos Blvd at Jeronimo Rd
Mitigation: + Add 2nd EB and WB LT lanes

Date: 6/11/2012
Originally Estimated by: RBF
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$103,000
2	Clear & Grub	\$12200 / AC	0.2	\$2,000
3	Earthwork	\$46.00 / CY	800	\$37,000
4	Remove Striping	\$13.00 / LF	3,000	\$39,000
5	Remove Curb & Gutter	\$36.00 / LF	1,300	\$47,000
6	Remove Median Curb	\$37.00 / LF	700	\$26,000
7	Remove PCC Sidewalk	\$5.00/ SF	6,400	\$32,000
8	Remove Pavement	\$5.00 / SF	0	\$0
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Bean Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	5	\$7,000
13	Sawcut	\$1.25 / LF	1,600	\$2,000
14	Relocate Street Light	\$5,700.00 / EA	1	\$6,000
15	Relocate Traffic Signal System	\$225,000.00 / EA	0.50	\$113,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	8	\$2,000
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22	Relocate Fire Hydrant	\$5,000.00 / EA	1	\$5,000
23	Relocate Bus Bench	\$1,458.00/ EA	1	\$1,000
24	Relocate Monument Wall	\$6,100.00 / EA	1	\$6,000
25	Relocate Utility Boxes	\$895.00 / EA	1	\$1,000
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	3	\$30,000
28	Adjust Manhole to Grade	\$1,500.00 / EA	4	\$6,000
29	Adjust Water Meter	\$610.00 / EA	4	\$2,000
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	1	\$6,000
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	7,500	\$45,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	67,500	\$27,000
37	Construct Striping & Marking	\$2.00 / LF	3,400	\$7,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	1,300	\$25,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	700	\$22,000
42	Construct Median Concrete	\$7.9 / SF	7,000	\$55,000
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	6,400	\$58,000
45	Construct Wheelchair Ramp	\$5,200.00 / EA	2	\$10,000
46	Construct Retaining Wall	\$114 / SF	1,700	\$194,000
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$65,000
54	SWPPP Plan and Implementation	6%	1	\$53,000
	CONSTRUCTION SUBTOTAL			\$1,034,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$37,000
	CONSTRUCTION SUBTOTAL			\$1,071,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$82,000
	CONSTRUCTION SUBTOTAL			\$989,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$64,000
	CONSTRUCTION SUBTOTAL			\$925,000
	Right-of-Way	\$71.66 / SF	6,000	\$430,000
	Right-of-Way Management	5%		\$22,000
	RIGHT-OF-WAY SUBTOTAL			\$452,000
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$1,377,000
	Preliminary Project Development (10% of total Construction Cost)			\$93,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$139,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$139,000
	Contingency (20% of total Construction Cost)			\$185,000
	TOTAL PROJECT COSTS			\$1,933,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010 COST ESTIMATES**

Location: #423. Muirlands Blvd at Los Alisos Blvd
Mitigation: + Add 2nd NB, SB, EB and WB LT lanes
+ Add EB RT lane

Date: 9/20/2010
Originally Estimated by: RBF, PBS&J
Revised by: PM

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$258,000
2	Clear & Grub	\$12200 / AC	0.6	\$7,000
3	Earthwork	\$46.00 / CY	2,800	\$129,000
4	Remove Striping	\$13.00 / LF	10,800	\$140,000
5	Remove Curb & Gutter	\$36.00 / LF	3,000	\$108,000
6	Remove Median Curb	\$37.00 / LF	1,400	\$52,000
7	Remove PCC Sidewalk	\$5.00/ SF	19,200	\$96,000
8	Remove Pavement	\$5.00 / SF	0	\$0
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	1,000	\$31,000
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	55	\$72,000
13	Sawcut	\$1.25 / LF	3,000	\$4,000
14	Relocate Street Light	\$5,700.00 / EA	0	\$0
15	Relocate Traffic Signal System	\$225,000.00 / EA	1.00	\$225,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	8	\$2,000
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	1	\$10,000
22	Relocate Fire Hydrant	\$5,000.00 / EA	1	\$5,000
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	4	\$4,000
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	2	\$20,000
28	Adjust Manhole to Grade	\$1,500.00 / EA	1	\$2,000
29	Adjust Water Meter	\$610.00 / EA	4	\$2,000
30	Adjust Water Valve	\$610.00 / EA	3	\$2,000
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	3	\$18,000
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	24,900	\$149,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	265,600	\$106,000
37	Construct Striping & Marking	\$2.00 / LF	10,800	\$22,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	3,000	\$57,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	1,400	\$43,000
42	Construct Median Concrete	\$7.9 / SF	7,700	\$61,000
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	19,200	\$174,000
45	Construct Wheelchair Ramp	\$5,200.00 / EA	3	\$16,000
46	Construct Retaining Wall	\$114 / SF	1,500	\$171,000
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	600	\$300,000
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$162,000
54	SWPPP Plan and Implementation	6%	1	\$131,000
	CONSTRUCTION SUBTOTAL			\$2,579,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$93,000
	CONSTRUCTION SUBTOTAL			\$2,672,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$206,000
	CONSTRUCTION SUBTOTAL			\$2,466,000
	Right-of-Way	\$71.66 / SF	24,900	\$1,784,000
	Right-of-Way Management	5%		\$89,000
	RIGHT-OF-WAY SUBTOTAL			\$1,873,000
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$4,339,000
	Preliminary Project Development (10% of total Construction Cost)			\$247,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$370,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$370,000
	Contingency (20% of total Construction Cost)			\$494,000
	TOTAL PROJECT COSTS			\$5,820,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #424. Los Alisos Blvd at Rockfield Blvd/Fordview St
Mitigation: + Add 2nd NB LT lane and SB RT lane

Date: 6/11/2012
Originally Estimated by: RBF, PBS&J
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$136,000
2 Clear & Grub	\$12200 / AC	0.1	\$1,000
3 Earthwork	\$46.00 / CY	150	\$7,000
4 Remove Striping	\$13.00 / LF	3,250	\$42,000
5 Remove Curb & Gutter	\$36.00 / LF	1,000	\$36,000
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00/ SF	8,000	\$40,000
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	5	\$7,000
13 Sawcut	\$1.25 / LF	1,000	\$1,000
14 Relocate Street Light	\$5,700.00 / EA	0	\$0
15 Relocate Traffic Signal System	\$225,000.00 / EA	1.00	\$225,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	5	\$1,000
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	9	\$225,000
21 Relocate Catch Basin	\$9,760.00 / EA	1	\$10,000
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	7	\$6,000
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	2	\$3,000
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	1	\$1,000
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	3	\$2,000
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	3,100	\$19,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	61,200	\$24,000
37 Construct Striping & Marking	\$2.00 / LF	2,800	\$6,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	1,000	\$19,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	6,000	\$54,000
45 Construct Wheelchair Ramp	\$5,200.00 / EA	4	\$21,000
46 Construct Retaining Wall	\$114 / SF	2,250	\$257,000
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Remove Structure	\$61,000.00 / EA	1	\$61,000
52 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
53 Apply ATMS	\$113,165.00 / LS	0	\$0
54 Traffic Control	8% (\$2,000 Min)	1	\$85,000
55 SWPPP Plan and Implementation	6%	1	\$69,000
CONSTRUCTION SUBTOTAL			\$1,358,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$49,000
CONSTRUCTION SUBTOTAL			\$1,407,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$108,000
CONSTRUCTION SUBTOTAL			\$1,299,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$84,000
CONSTRUCTION SUBTOTAL			\$1,215,000
Right-of-Way	\$71.66 / SF	1,400	\$100,000
Right-of-Way Management	5%		\$5,000
RIGHT-OF-WAY SUBTOTAL			\$105,000
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$1,320,000
Preliminary Project Development (10% of total Construction Cost)			\$122,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$183,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$183,000
Contingency (20% of total Construction Cost)			\$243,000
TOTAL PROJECT COSTS			\$2,051,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010 COST ESTIMATES**

Location: #432. Alicia Pkwy at Muirlands Blvd

Date: 9/20/2010

Mitigation: + Add 2nd EB, WB & SB LT lane & convert SB RT lane to 4th T lane

Originally Estimated by: RBF, PBS&J

Revised by: PM

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$340,000
2	Clear & Grub	\$12200 / AC	0.5	\$6,000
3	Earthwork	\$46.00 / CY	3,700	\$170,000
4	Remove Striping	\$13.00 / LF	9,100	\$118,000
5	Remove Curb & Gutter	\$36.00 / LF	3,000	\$108,000
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00/ SF	20,100	\$101,000
8	Remove Pavement	\$5.00 / SF	0	\$0
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	62	\$81,000
13	Sawcut	\$1.25 / LF	3,000	\$4,000
14	Relocate Street Light	\$5,700.00 / EA	4	\$23,000
15	Relocate Traffic Signal System	\$225,000.00 / EA	1	\$225,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	7	\$2,000
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	4	\$39,000
22	Relocate Fire Hydrant	\$5,000.00 / EA	2	\$10,000
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	13	\$12,000
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	3	\$30,000
28	Adjust Manhole to Grade	\$1,500.00 / EA	3	\$5,000
29	Adjust Water Meter	\$610.00 / EA	4	\$2,000
30	Adjust Water Valve	\$610.00 / EA	3	\$2,000
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	2	\$1,000
32	Modify Driveway	\$6,100.00 / LS	2	\$12,000
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	20,000	\$120,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	99,600	\$40,000
37	Construct Striping & Marking	\$2.00 / LF	9,100	\$18,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	3,000	\$57,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	20,000	\$181,000
45	Construct Wheelchair Ramp	\$5,200.00 / EA	3	\$16,000
46	Construct Retaining Wall	\$114 / SF	11,300	\$1,288,000
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$214,000
54	SWPPP Plan and Implementation	6%	1	\$173,000
	CONSTRUCTION SUBTOTAL			\$3,398,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$122,000
	CONSTRUCTION SUBTOTAL			\$3,520,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$271,000
	CONSTRUCTION SUBTOTAL			\$3,249,000
	Right-of-Way	\$71.66 / SF	20,000	\$1,433,000
	Right-of-Way Management	5%		\$72,000
	RIGHT-OF-WAY SUBTOTAL			\$1,505,000
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$4,754,000
	Preliminary Project Development (10% of total Construction Cost)			\$325,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$488,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$488,000
	Contingency (20% of total Construction Cost)			\$650,000
	TOTAL PROJECT COSTS			\$6,705,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #557. Ridge Valley at Irvine Blvd (Now #558)
Mitigation: + Add 2nd EB LT lane

Date: 6/11/2012
Originally Estimated by: RBF
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$11,000
2	Clear & Grub	\$12200 / AC	0.1	\$1,000
3	Earthwork	\$46.00 / CY	388	\$18,000
4	Remove Striping	\$13.00 / LF	0	\$0
5	Remove Curb & Gutter	\$36.00 / LF	0	\$0
6	Remove Median Curb	\$37.00 / LF	480	\$18,000
7	Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8	Remove Pavement	\$5.00 / SF	0	\$0
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	480	\$1,000
14	Relocate Street Light	\$5,700.00 / EA	0	\$0
15	Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	4,330	\$26,000
35	Construct AC Overlay	\$2.50 / SF	1,650	\$4,000
36	Construct Slurry Seal	\$0.4 / SF	5,980	\$2,000
37	Construct Striping & Marking	\$2.00 / LF	330	\$1,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	0	\$0
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	477	\$15,000
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45	Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$7,000
54	SWPPP Plan and Implementation	6%	1	\$6,000
CONSTRUCTION SUBTOTAL				\$110,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$4,000
CONSTRUCTION SUBTOTAL				\$114,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$9,000
CONSTRUCTION SUBTOTAL				\$105,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$7,000
CONSTRUCTION SUBTOTAL				\$98,000
	Right-of-Way	\$71.66 / SF	0	\$0
	Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL				\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST				\$98,000
	Preliminary Project Development (10% of total Construction Cost)			\$10,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$15,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$15,000
	Contingency (20% of total Construction Cost)			\$20,000
TOTAL PROJECT COSTS				\$158,000

* Notes:

A. This intersection has not been constructed. Cost estimate was based on 2003 layout.

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: Segment 2: Jamboree Rd (Portola Pkwy to Irvine City Limits north of Tustin Ranch Rd)

Date: 6/11/2012

Originally Estimated by: RBF

Mitigation: + Improve to 6 lanes (unfunded planned improvements)

Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$255,000
2 Clear & Grub	\$12200 / AC	0.2	\$2,000
3 Earthwork	\$329,400.00 / LS	1	\$329,000
4 Remove Striping	\$51,972.00 / LS	0.5	\$26,000
5 Remove Curb & Gutter	\$86,620.00 / LS	1	\$87,000
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00/ SF	0	\$0
8 Remove Pavement	\$103,944.00 / LS	1	\$104,000
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00/ LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	21	\$27,000
13 Sawcut	\$34,648.00 / LS	1	\$35,000
14 Relocate Street Light	\$5,700.00 / EA	0	\$0
15 Relocate Traffic Signal System	\$225,000.00 / EA	1	\$225,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	1	\$6,000
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$866,566.00 / LS	1	\$867,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$51,972.00 / LS	0.5	\$26,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$259,982.00 / LS	1	\$260,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$103,944.00 / LS	1	\$104,000
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$1,830.00 / EA	0	\$0
46 Construct Retaining Wall	\$51,972.00 / LS	1	\$26,000
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$42,000
54 SWPPP Plan and Implementation	6%	1	\$130,000
CONSTRUCTION SUBTOTAL			\$2,551,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$92,000
CONSTRUCTION SUBTOTAL			\$2,643,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$204,000
CONSTRUCTION SUBTOTAL			\$2,439,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$159,000
CONSTRUCTION SUBTOTAL			\$2,280,000
Right-of-Way	\$71.66 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$2,280,000
Preliminary Project Development (10% of total Construction Cost)			\$228,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$342,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$342,000
Contingency (20% of total Construction Cost)			\$456,000
TOTAL PROJECT COSTS			\$3,648,000

* Unit cost for Retaining Wall different but consistent with 2003 Cost Estimates

* Notes:

- A. This project includes Location #123, improvement of Jamboree Rd to six lanes at Tustin Ranch Rd.
- B. Refer to the Location #123 cost estimate for restriping costs at that intersection.

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: Segment 3: Jeffrey Rd (Future extension from Portola Pkwy to SR-241)
Mitigation: + Construct as 4-lane primary arterial
(unfunded planned improvements)

Date: 6/11/2012
Originally Estimated by: RBF
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$1,624,000
2	Clear & Grub	\$12200 / AC	0.0	\$0
3	Earthwork	\$2,977,898.00 / LS	1	\$2,978,000
4	Remove Striping	\$13.00 / LF	0	\$0
5	Remove Curb & Gutter	\$36.00 / LF	0	\$0
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8	Remove Pavement	\$5.00 / SF	0	\$0
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	0	\$0
14	Relocate Street Light	\$5,700.00 / EA	66	\$376,000
15	Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	840,000	\$5,040,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$2.00 / LF	49,000	\$98,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	20,000	\$380,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Drainage System	\$1,708,000.00 / SF	1	\$1,708,000
43	Construct Slope Landscaping	\$.80 / SF	915,200	\$732,000
44	Construct PCC Sidewalk	\$9.05 / SF	160,000	\$1,448,000
45	Construct Erosion Control	\$1,220.00 / AC	21	\$26,000
46	Santiago Aqueduct Encasement Protection	\$610,000.00 / LS	1	\$610,000
47	Utility Protection Allowance	\$122,000.00 / LS	1	\$122,000
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$270,000
54	SWPPP Plan and Implementation	6%	1	\$827,000
CONSTRUCTION SUBTOTAL				\$16,239,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$585,000
CONSTRUCTION SUBTOTAL				\$16,824,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$1,295,000
CONSTRUCTION SUBTOTAL				\$15,529,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$1,009,000
CONSTRUCTION SUBTOTAL				\$14,520,000
	Right-of-Way	\$71.66 / SF	0	\$0
	Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL				\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST				\$14,520,000
Preliminary Project Development (10% of total Construction Cost)				\$1,452,000
Design Engineering/Administration Costs (15% of total Construction Cost)				\$2,178,000
Construction Engineering Costs/Administration (15% of total Construction Cost)				\$2,178,000
Contingency (20% of total Construction Cost)				\$2,904,000
TOTAL PROJECT COSTS				\$23,232,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010 COST ESTIMATES**

Location: Segment 4: SR-133 (I-405 to Lake Forest)
Mitigation: + Improve to 6 lanes

Date: 9/24/2010
Originally Estimated by: RBF(2003,2006)
Revised by: PM

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$180,000
2 Clear & Grub	\$1,000 / CY	2.0	\$2,000
3 Earthwork	\$10.00 / CY	4,300	\$43,000
4 Remove Striping	\$3.00 / LF	0	\$0
5 Remove Curb & Gutter	\$3.00 / LF	0	\$0
6 Remove Median Curb	\$3.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$2.00 / SF	0	\$0
8 Remove Pavement	\$1.50 / SF	46,600	\$70,000
9 Remove Channel	\$15.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$10.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$55.00 / LF	0	\$0
12 Remove & Relocate Tree	\$500/ EA	0	\$0
13 Sawcut	\$1.00 / LF	9,450	\$9,000
14 Relocate Street Light	\$3,000 / EA	0	\$0
15 Relocate Traffic Signal System	\$140,000 / EA	1	\$140,000
16 Relocate Freeway Sign (2 post)	\$1,000 / EA	0	\$0
17 Relocate Sign (1 post)	\$200 / EA	0	\$0
18 Reconstruct Overhead Sign	\$35,000 / EA	0	\$0
19 Relocate Call Box	\$1,000 / EA	0	\$0
20 Relocate Power Pole	\$15,000 / EA	0	\$0
21 Relocate Catch Basin	\$5,000 / EA	10	\$50,000
22 Relocate Fire Hydrant	\$1,000 / EA	0	\$0
23 Relocate Bus Bench	\$600 / EA	0	\$0
24 Relocate Monument Wall	\$5,000 / EA	0	\$0
25 Relocate Utility Boxes	\$500 / EA	0	\$0
26 Relocate Main Water Valve	\$10,000 / EA	0	\$0
27 Relocate Utility Vault	\$600 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$500 / EA	0	\$0
30 Adjust Water Valve	\$500 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$500 / EA	0	\$0
32 Modify Driveway	\$5,000 / LS	0	\$0
33 Construct PCC Pavement	\$6.00 / SF	0	\$0
34 Construct AC Pavement	\$4.50 / SF	135,000	\$608,000
35 Construct AC Overlay	\$1.50 / SF	0	\$0
36 Construct Slurry Seal	0.25 / SF	0	\$0
37 Construct Striping & Marking	\$4.00 / SF	8,930	\$36,000
38 Construct AC Dike	\$2.00 / LF	0	\$0
39 Construct Curb & Gutter	\$15.00 / LF	0	\$0
40 Construct Concrete Barrier	\$50.00 / LF	0	\$0
41 Construct Median Curb	\$11.00 / LF	0	\$0
42 Construct Median Concrete	\$6.00 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$10.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$3.00 / SF	0	\$0
45 Construct Wheelchair Ramp	\$1,500 / SF	0	\$0
46 Construct Retaining Wall	\$40.00 / SF	0	\$0
47 Construct Storm Drain Main	\$100.00 / LF	0	\$0
48 Construct RCB	\$70.00 / SF	52	\$4,000
49 Construct Concrete V-Ditch	\$15.00 / SF	0	\$0
50 Construct Bridge Widening	\$175.00 / SF	0	\$0
51 Utilities	\$540,000 / SF	1	\$540,000
52 Apply ATMS	\$65,000 / LS	0	\$0
53 Traffic Control	2% (\$2,000 Min)	1	\$30,000
54 SWPPP Plan and Implementation	6%	1	\$92,000
56 Additional Caltrans Requirement	600,000 / LS	1	\$600,000
CONSTRUCTION SUBTOTAL			\$2,404,000
California Highway Price Index Increase	134.2%	CCI 2003 --> 2007	\$3,226,000
CONSTRUCTION SUBTOTAL			\$5,630,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$203,000
CONSTRUCTION SUBTOTAL			\$5,833,000
California Highway Price Index			
ACTUAL CONSTRUCTION COST		2010	\$4,953,105
Right-of-Way	\$71.66 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			
Preliminary Project Development (Actual Expenditure)			
Design Engineering/Administration Costs (Actual Expenditure)			
Construction Engineering Costs/Administration			
Contingency			
TOTAL PROJECT COSTS (ACTUAL COSTS)			\$4,953,105

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #1, I-5 (Sand Canyon Ave to Jeffrey Rd)

Date: 6/11/2012

Mitigation: + Add 6th NB (2012) and SB mixed-flow lanes and add 2nd drop lane
from I-5 to the SB off ramp at Sand Canyon Ave

Originally Estimated by: RBF
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$723,000
2	Clear & Grub	\$12200 / AC	2.0	\$24,000
3	Earthwork	\$46.00 / CY	18,133	\$834,000
4	Remove Striping	\$13.00 / LF	13,600	\$177,000
5	Remove Curb & Gutter	\$36.00 / LF	0	\$0
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8	Roadway Excavation (2 ft thick)	\$32.00/ CY	5,037	\$161,000
9	Remove Channel	\$55.00/ LF	600	\$33,000
10	Remove/Replace Chain Link Fence	\$31.00 / LF	100	\$3,000
11	Reconstruct Metal Beam Guard Rail	\$86.00/ LF	2,400	\$206,000
12	Remove & Relocate Tree	\$1,300.00 / EA	3	\$4,000
13	Sawcut	\$1.25 / LF	8,000	\$10,000
14	Relocate Street Light	\$5,700.00 / EA	14	\$80,000
15	Relocate Traffic Signal System	\$225,000.00 / EA	0.00	\$0
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	7	\$5,000
17	Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18A	Overhead Sign (2 posts)	\$240,000.00 / EA	2	\$480,000
18 B	Overhead Sign (1 post)	\$140,000.00/ EA	1	\$140,000
19	Relocate Call Box	\$2,051.00/EA	2	\$4,000
20	Relocate Power Pole	\$25,000 / EA	2	\$50,000
21	Relocate Catch Basin	\$9,760.00 / EA	11	\$107,000
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	149,600	\$898,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	75,600	\$30,000
37	Construct Striping & Marking	\$2.00 / LF	20,400	\$41,000
38	Construct AC Dike	\$4.00 / LF	2,800	\$11,000
39	Construct Curb & Gutter	\$19.00 / LF	0	\$0
40	Construct Concrete Barrier	\$295.00 / LF	400	\$118,000
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45	Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46	Construct Retaining Wall	\$114 / SF	1,600	\$182,000
47	Construct Storm Drain Main	\$122.00 / LF	1,600	\$195,000
48	Construct RCB	\$549.00 / CY	600	\$329,000
49	Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$330,000
54	Remove Pavement Marker	\$20,000.00/ LS	1	\$20,000
55	Remove MBGR	\$10.00/ LF	2,400	\$24,000
56	Drainage Mobilization	\$48,800.00/ LS	1	\$49,000
57	Asphalt Concrete Base (8 in.)	\$90.00/ TON	5,881	\$529,000
58	Class 2 Aggregate Base (20 in.)	\$60.00/ CY	9,234	\$554,000
59	Pavement Marker	\$20,000.00/ LS	1	\$20,000
60	Temporary Pavement Marker	\$15,000.00/ LS	1	\$15,000
61	Temporary Striping	\$20,000.00/ LS	1	\$20,000
62	Temporary K-rail	\$19.00/ LF	2,800	\$53,000
63	Temporary Crash Cushion	\$325.00/ EA	10	\$3,000
64	Overhead CMS	\$140,000.00/ EA	1	\$140,000
65	Remove Overhead Signs	\$6,000.00/ EA	7	\$42,000
66	Lead Investigation	\$30,000.00/ LS	1	\$30,000
67	RE Office	\$6,000.00/ MO	12	\$72,000
68	Construction Area Sign	\$40,000.00/ LS	1	\$40,000
69	Portable CMS	\$50,000.00/ LS	1	\$50,000
70	CHP/COZEEL	\$50,000.00/ LS	1	\$50,000
71	Traffic Management Plan	\$70,000.00/ LS	1	\$70,000
72	Public Awareness Campaign	\$10,000.00/ LS	1	\$10,000
73	SWPPP Plan and Implementation	6%	1	\$267,000
	CONSTRUCTION SUBTOTAL			\$7,233,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$260,000
	CONSTRUCTION SUBTOTAL			\$7,493,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$577,000
	CONSTRUCTION SUBTOTAL			\$6,916,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$450,000
	CONSTRUCTION SUBTOTAL			\$6,466,000
	Right-of-Way	\$71.66 / SF	0	\$0
	Right-of-Way Management	5%		\$0
	RIGHT-OF-WAY SUBTOTAL			\$0
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$6,466,000
	Preliminary Project Development (15% of total construction cost)			\$970,000
	Design Engineering/Administration Costs (15% of total construction cost)			\$970,000
	Construction Engineering Costs/Administration (15% of total construction cost)			\$970,000
	Contingency (20% of total construction cost)			\$1,293,000
	TOTAL PROJECT COSTS			\$10,669,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #2. I-405 (Sand Canyon Ave to Jeffrey Rd)

Date: 6/11/2012

Mitigation: + Add 5th NB and SB mixed-flow (general purpose) lanes

Originally Estimated by: RBF, PBS&J

Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$33,000
2	Clear & Grub	\$12200 / AC	0.0	\$0
3	Earthwork	\$46.00 / CY	0	\$0
4	Remove Striping	\$13.00 / LF	5,800	\$75,000
5	Remove Curb & Gutter	\$36.00 / LF	0	\$0
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8	Remove Pavement	\$5.00 / SF	0	\$0
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	0	\$0
14	Relocate Street Light	\$5,700.00 / EA	0	\$0
15	Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	0	\$0
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$2.00 / LF	5,800	\$12,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	0	\$0
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45	Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control Systems	\$30,000.00/ LS	1	\$30,000
54	Remove Pavement Marker	\$20,000.00/ LS	1	\$20,000
55	Pavement Marker	\$20,000.00/ LS	1	\$20,000
56	Temporary Pavement Marker	\$10,000.00/ LS	1	\$10,000
57	Temporary Striping	\$10,000.00/ LS	1	\$10,000
58	Temporary K-rail	\$19.00/ LF	2,900	\$55,000
59	Temporary Crash Cushion	\$325.00/ EA	5	\$2,000
60	Lead Investigation	\$10,000.00/ LS	1	\$10,000
61	RE Office	\$6,000.00/ Mon	1	\$6,000
62	Construction Area Sign	\$10,000.00/ LS	1	\$10,000
63	CHP/COZEEP	\$5,000.00/ LS	1	\$5,000
64	Traffic Management Plan	\$5,000.00/ LS	1	\$5,000
65	Portable CMS	\$10,000.00/ LS	1	\$10,000
66	SWPPP Plan and Implementation	\$20,000.00/ LS	1	\$20,000
	CONSTRUCTION SUBTOTAL			\$333,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$12,000
	CONSTRUCTION SUBTOTAL			\$345,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$27,000
	CONSTRUCTION SUBTOTAL			\$318,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$21,000
	CONSTRUCTION SUBTOTAL			\$297,000
	Right-of-Way	\$71.66 / SF	0	\$0
	Right-of-Way Management	5%		\$0
	RIGHT-OF-WAY SUBTOTAL			\$0
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$297,000
	Preliminary Project Development (15% of total construction cost)			\$45,000
	Design Engineering/Administration Costs (15% of total construction cost)			\$45,000
	Construction Engineering Costs/Administration (15% of total construction cost)			\$45,000
	Contingency (20% of total construction cost)			\$59,000
	TOTAL PROJECT COSTS			\$491,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #5, I-5 at Culver Dr (SB off ramp)
Mitigation: + Add 2nd auxiliary lane from I-5 to the off ramp

Date: 6/11/2012
Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$388,000
2 Clear & Grub	\$12200 / AC	1.0	\$12,000
3 Earthwork	\$46.00 / CY	4,000	\$184,000
4 Remove Striping	\$13.00 / LF	2,400	\$31,000
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8 Roadway Excavation (2 ft thick)	\$35.00 / CY	2,622	\$92,000
9 Remove Channel	\$50.00 / LF	1,800	\$90,000
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	225	\$19,000
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	3,600	\$5,000
14 Relocate Street Light	\$5,700.00 / EA	5	\$29,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	2	\$1,000
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18A Overhead Sign (2 posts)	\$240,000.00 / EA	0	\$0
18B Overhead Sign (1 post)	\$140,000.00 / EA	2	\$280,000
19 Relocate Call Box	\$2,051.00/EA	2	\$4,000
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	4	\$39,000
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$240.00/ CY	2,424	\$582,000
34 Construct AC Pavement	\$6.00 / SF	0	\$0
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$2.50/ LF	7,200	\$18,000
38 Construct AC Dike	\$4.00 / LF	650	\$3,000
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	600	\$73,000
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$450.00/ CY	283	\$127,000
50 Construct Bridge Widening	\$500.00 / SF	2,000	\$1,000,000
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Remove Pavement Marker	\$5,000.00/ LS	1	\$5,000
54 Remove MBGR	\$15.00/ LF	225	\$3,000
55 Class 2 Aggregate Base (4 in)	\$60.00/ CY	950	\$57,000
56 Cement Treated Permeable Base (4 in)	\$100.00/ CY	950	\$95,000
57 Drainage Mobilization	\$50,138.00/ LS	1	\$50,000
58 Pavement Marker	\$10,000.00/ LS	1	\$10,000
59 Temporary Pavement Marker	\$8,000.00/ LS	1	\$8,000
60 Temporary Striping	\$10,000.00/ LS	1	\$10,000
61 Temporary K-rail	\$22.00/ LF	1,000	\$22,000
62 Remove Overhead Signs	\$6,000.00/ EA	2	\$12,000
63 Lead Investigation	\$25,000.00/ LS	1	\$25,000
64 RE Office	\$6,000.00/ MON	12	\$72,000
65 Portable CMS	\$35,000.00/ LS	1	\$35,000
66 Construction Area Sign	\$30,000.00/ LS	1	\$30,000
67 Traffic Control	\$200,000.00/ LS	1	\$200,000
68 CHP/COZEEP	\$30,000.00/ LS	1	\$30,000
69 Traffic Management Plan	\$40,000.00/ LS	1	\$40,000
70 Public Awareness Campaign	\$10,000.00/ LS	1	\$10,000
71 SWPPP Plan and Implementation	\$140,000.00/ IS	1	\$193,000
CONSTRUCTION SUBTOTAL			\$3,884,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$140,000
CONSTRUCTION SUBTOTAL			\$4,024,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$310,000
CONSTRUCTION SUBTOTAL			\$3,714,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$241,000
CONSTRUCTION SUBTOTAL			\$3,473,000
Right-of-Way	\$71.66 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$3,473,000
Preliminary Project Development (15% of total construction cost)			\$521,000
Design Engineering/Administration Costs (15% of total construction cost)			\$521,000
Construction Engineering Costs/Administration (15% of total construction cost)			\$521,000
Contingency (20% of total construction cost)			\$695,000
TOTAL PROJECT COSTS			\$5,731,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #3, I-5 at Alton Pkwy (SB off ramp)
Mitigation: + Add 2nd auxiliary lane from I-5 to the off ramp

Date: 6/11/2012
Originally Estimated by: RBF, PBS&J
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$293,000
2 Clear & Grub	\$12200 / AC	0.6	\$7,000
3 Earthwork	\$46.00 / CY	7,900	\$363,000
4 Remove Striping	\$3.8/ LF	2,100	\$6,000
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00/ SF	0	\$0
8 Remove Pavement (2 ft thick)	\$5.00 / SF	2,014	\$10,000
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$65.00/ LF	450	\$29,000
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	2,700	\$3,000
14 Relocate Street Light	\$5,700.00 / EA	7	\$40,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	2	\$1,000
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18A Overhead Sign (2 posts)	\$240,000.00 / EA	2	\$480,000
18B Overhead Sign (1 post)	\$140,000.00/ EA	1	\$140,000
19 Relocate Call Box	\$2,051.00/EA	1	\$2,000
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	7	\$68,000
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement (7 in.)	\$100.00/ TON	1,989	\$199,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$2.00 / LF	6,000	\$12,000
38 Construct AC Dike	\$4.00 / LF	2,100	\$8,000
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	1,900	\$232,000
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control Systems	\$102,000.00/ LS	1	\$102,000
54 Traffic Management Plan	\$35,000.00/ LS	1	\$35,000
55 Remove Pavement Marker	\$5,000.00/ LS	1	\$5,000
56 Remove MBGR	\$15.00/ LF	450	\$7,000
57 Asphalt Concrete Base (8 in.)	\$100.00/ TON	2,272	\$227,000
58 Class 2 Aggregate Base (20 in.)	\$65.00/ CY	3,512	\$228,000
59 Drainage Mobilization	\$57,950.00/ LS	1	\$58,000
60 Pavement Marker	\$7,000.00/ LS	1	\$7,000
61 Temporary Pavement Marker	\$7,000.00/ LS	1	\$7,000
62 Temporary Striping	\$9,000.00/ LS	1	\$9,000
63 Temporary K-rail	\$19.00/ LS	2,100	\$40,000
64 Temporary Crash Cushion	\$250.00/ EA	10	\$3,000
65 Remove Overhead Signs	\$6,000.00/ EA	2	\$12,000
66 Lead Investigation	\$30,000.00/ LS	1	\$30,000
67 RE Office	\$6,000.00/ MON	10	\$60,000
68 Construction Area Sign	\$30,000.00/ LS	1	\$30,000
69 Portable CMS	\$35,000.00/ LS	1	\$35,000
70 CHP/COZEPP	\$30,000.00/ LS	1	\$30,000
71 Public Awareness Campaign	\$10,000.00/ LS	1	\$10,000
72 SWPPP Plan and Implementation	\$100,000.00/ LS	1	\$100,000
CONSTRUCTION SUBTOTAL			\$2,928,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$105,000
CONSTRUCTION SUBTOTAL			\$3,033,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$234,000
CONSTRUCTION SUBTOTAL			\$2,799,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$182,000
CONSTRUCTION SUBTOTAL			\$2,617,000
Right-of-Way	\$71.66 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$2,617,000
Preliminary Project Development (15% of total construction cost)			\$393,000
Design Engineering/Administration Costs (15% of total construction cost)			\$393,000
Construction Engineering Costs/Administration (15% of total construction cost)			\$393,000
Contingency (20% of total construction cost)			\$523,000
TOTAL PROJECT COSTS			\$4,319,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #4, I-5 at Bake Pkwy (SB off ramp)
Mitigation: Widen Connector ramps between I-5 and I-405 from 1 to 2 lanes

Date: 6/11/2012
Originally Estimated by: RBF, PBS&J
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$216,000
2	Clear & Grub	\$12200 / AC	0.2	\$2,000
3	Earthwork	\$30.00/ CY	900	\$27,000
4	Remove Striping	\$13.00 / LF	800	\$10,000
5	Remove Curb & Gutter	\$36.00 / LF	0	\$0
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00/ SF	0	\$0
8	Remove Excavation (2 ft thick)	\$35.00/ CY	2,000	\$70,000
9	Remove Channel	\$55.00/ LF	300	\$17,000
10	Remove/Replace Chain Link Fence	\$31.00 / LF	300	\$9,000
11	Reconstruct Metal Beam Guard Rail	\$86.00/ LF	80	\$7,000
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	1,600	\$2,000
14	Relocate Street Light	\$5,700.00 / EA	2	\$11,000
15	Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18A	Overhead Sign (2 posts)	\$240,000.00 / EA	2	\$480,000
18B	Overhead Sign (1 post)	\$140,000.00/ EA	1	\$140,000
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement (7 in.)	\$100.00/ SF	1,442	\$144,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$3.00/ LF	3,500	\$11,000
38	Construct AC Dike	\$4.00 / LF	1,100	\$4,000
39	Construct Curb & Gutter	\$19.00 / LF	0	\$0
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45	Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46	Construct Retaining Wall	\$114 / SF	2,000	\$228,000
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$500.00/ CY	47	\$24,000
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	\$120,000.00/ LS	1	\$120,000
54	Construction Area Sign	\$25,000.00/ LS	1	\$25,000
55	Portable CMS	\$30,000.00/ LS	1	\$30,000
56	Remove Pavement Marker	\$2,500.00/ LS	1	\$3,000
57	Remove MBGR	\$20.00/ LF	80	\$2,000
58	Asphalt Concrete Base (8 in.)	\$100.00/ TON	1,442	\$144,000
59	Class 2 Aggregate Base (20 in.)	\$65.00/ CY	2,228	\$145,000
60	Drainage Mobilization	\$5,875.00/ LS	1	\$6,000
61	Pavement Marker	\$5,000.00/ LS	1	\$5,000
62	Temporary Pavement Marker	\$3,000.00/ LS	1	\$3,000
63	Temporary Striping	\$3,000.0000/ LS	1	\$3,000
64	Temporary K-rail	\$19.00/ LF	2,000	\$38,000
65	Temporary Crash Cushion	\$325.00/ EA	5	\$2,000
66	Remove Overhead Signs	\$6,000.00/ EA	2	\$12,000
67	Lead Investigation	\$25,000.00/ LS	1	\$25,000
68	RE Office	\$6,000.00/ MON	6	\$36,000
69	CHP/COZEPP	\$25,000.00/ LS	1	\$25,000
70	Traffic Management Plan	\$30,000.00/ LS	1	\$30,000
71	Public Awareness Campaign	\$10,000.00/ LS	1	\$10,000
72	SWPPP Plan and Implementation	\$90,000.00/ LS	1	\$90,000
	CONSTRUCTION SUBTOTAL			\$2,156,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$78,000
	CONSTRUCTION SUBTOTAL			\$2,234,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$172,000
	CONSTRUCTION SUBTOTAL			\$2,062,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$134,000
	CONSTRUCTION SUBTOTAL			\$1,928,000
	Right-of-Way	\$71.66 / SF	0	\$0
	Right-of-Way Management	5%		\$0
	RIGHT-OF-WAY SUBTOTAL			\$0
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$1,928,000
	Preliminary Project Development (15% of total construction cost)			\$289,000
	Design Engineering/Administration Costs (15% of total construction cost)			\$289,000
	Construction Engineering Costs/Administration (15% of total construction cost)			\$289,000
	Contingency (20% of total construction cost)			\$386,000
	TOTAL PROJECT COSTS			\$3,181,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #6. I-5 at El Toro Rd (NB loop on ramp)

Date: 6/11/2012

Mitigation: + Convert HOV preferential lane to a 2nd metered mixed flow lane

Originally Estimated by: RBF

Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$16,000
2	Clear & Grub	\$12200 / AC	0.0	\$0
3	Earthwork	\$46.00 / CY	0	\$0
4	Remove Striping	\$13.00 / LF	600	\$8,000
5	Remove Curb & Gutter	\$36.00 / LF	0	\$0
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8	Remove Pavement	\$5.00 / SF	0	\$0
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	0	\$0
14	Relocate Street Light	\$5,700.00 / EA	0	\$0
15	Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	0	\$0
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	20,200	\$8,000
37	Construct Striping & Marking	\$8.00 / LF	600	\$5,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	0	\$0
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45	Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control Systems	\$30,000.00/ LS	1	\$30,000
54	Remove Pavement Marker	\$4,000.00/ LS	1	\$4,000
55	Pavement Marker	\$4,000.00/ LS	1	\$4,000
56	Temporary Pavement Marker	\$4,000.00/ LS	1	\$4,000
57	Temporary Striping	\$4,000.00/ LS	1	\$4,000
58	Temporary K-rail	\$20.00/ LF	600	\$12,000
59	Temporary Crash Cushion	\$325.00/ EA	5	\$2,000
60	Lead Investigation	\$10,000.00/ LS	1	\$10,000
61	RE Office	\$6,000.00/ MON	1	\$6,000
62	Construction Area Sign	\$10,000.00/ LS	1	\$10,000
63	Portable CMS	\$10,000.00/ LS	1	\$10,000
64	CHP/COZEED	\$5,000.00/ LS	1	\$5,000
65	Traffic Management Plan	\$5,000.00/ LS	1	\$5,000
66	SWPPP Plan and Implementation	\$20,000.00/ LS	1	\$20,000
CONSTRUCTION SUBTOTAL				\$163,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$6,000
CONSTRUCTION SUBTOTAL				\$169,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$13,000
CONSTRUCTION SUBTOTAL				\$156,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$10,000
CONSTRUCTION SUBTOTAL				\$146,000
	Right-of-Way	\$71.66 / SF	0	\$0
	Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL				\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST				\$146,000
	Preliminary Project Development (15% of total construction cost)			\$22,000
	Design Engineering/Administration Costs (15% of total construction cost)			\$22,000
	Construction Engineering Costs/Administration (15% of total construction cost)			\$22,000
	Contingency (20% of total construction cost)			\$29,000
TOTAL PROJECT COSTS				\$241,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #7, I-5 at El Toro Rd (SB off ramp)

Date: 6/11/2012

Mitigation: + Add 2nd auxiliary lane from I-5 to the off ramp by restriping mainline

Originally Estimated by: RBF

Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$141,000
2	Clear & Grub	\$12200 / AC	0.0	\$0
3	Earthwork	\$46.00 / CY	0	\$0
4	Remove Striping	\$7.00/ LF	56,500	\$396,000
5	Remove Curb & Gutter	\$36.00 / LF	0	\$0
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00/ SF	0	\$0
8	Remove Pavement	\$5.00 / SF	0	\$0
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00/ LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	0	\$0
14	Relocate Street Light	\$5,700.00 / EA	0	\$0
15	Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	0	\$0
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$2.50/ LF	56,500	\$141,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	0	\$0
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45	Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	\$100,000.00/ LS	1	\$100,000
54	Remove Pavement Marker	\$100,000.00/ LS	1	\$100,000
55	Temporary Pavement Marker	\$100,000.00/ LS	1	\$100,000
56	Temporary Striping	\$120,000.00/ LS	1	\$120,000
57	Temporary K-rail	\$17.00/ LF	5,800	\$99,000
58	Temporary Crash Cushion	\$325.00/ EA	10	\$3,000
59	Lead Investigation	\$30,000.00/ LS	1	\$30,000
60	RE Office	\$6,000.00/ MON	3	\$18,000
61	Construction Area Sign	\$30,000.00/ LS	1	\$30,000
62	Portable CMS	\$30,000.00/ LS	1	\$30,000
63	CHP/COZEPP	\$25,000.00/ LS	1	\$25,000
64	Traffic Management Plan	\$25,000.00/ LS	1	\$25,000
65	Public Awareness Campaign	\$10,000.00/ LS	1	\$10,000
66	SWPPP Plan and Implementation	\$40,000.00/ LS	1	\$40,000
	CONSTRUCTION SUBTOTAL			\$1,408,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$51,000
	CONSTRUCTION SUBTOTAL			\$1,459,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$112,000
	CONSTRUCTION SUBTOTAL			\$1,347,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$88,000
	CONSTRUCTION SUBTOTAL			\$1,259,000
	Right-of-Way	\$71.66 / SF	0	\$0
	Right-of-Way Management	5%		\$0
	RIGHT-OF-WAY SUBTOTAL			\$0
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$1,259,000
	Preliminary Project Development (15% of total construction cost)			\$189,000
	Design Engineering/Administration Costs (15% of total construction cost)			\$189,000
	Construction Engineering Costs/Administration (15% of total construction cost)			\$189,000
	Contingency (20% of total construction cost)			\$252,000
	TOTAL PROJECT COSTS			\$2,078,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #8, I-5 at Jamboree Rd (NB off ramp)
Mitigation: + Add 2nd auxiliary lane from I-5 to the off ramp

Date: 6/11/2012
Originally Estimated by: RBF, PBS&J
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$343,000
2	Clear & Grub	\$12200 / AC	0.5	\$6,000
3	Earthwork	\$46.00 / CY	2,100	\$97,000
4	Remove Striping	\$13.00 / LF	1,500	\$20,000
5	Remove Curb & Gutter	\$36.00 / LF	0	\$0
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8	Remove Excavation (2 ft thick)	\$30.00 / CY	4,885	\$147,000
9	Remove Channel	\$50.00 / LF	1,500	\$75,000
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	150	\$13,000
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	1,700	\$2,000
14	Relocate Street Light	\$5,700.00 / EA	6	\$34,000
15	Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	4	\$3,000
17	Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18A	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
18B	Overhead Sign (2 posts)	\$160,000.00 / EA	2	\$320,000
19	Relocate Call Box	\$2,051.00/EA	2	\$4,000
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	4	\$39,000
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$430.00/ CY	93	\$40,000
34	Construct AC Pavement	\$6.00 / SF	37,600	\$226,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$3.80 / LF	4,200	\$16,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	0	\$0
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45	Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	400	\$49,000
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$500.00/CY	63	\$32,000
50	Construct Bridge Widening	\$500.00 / SF	2,000	\$1,000,000
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control Systems	\$200,000.00/ LS	1	\$200,000
54	Remove Pavement Marker	\$4,000.00/ LS	1	\$4,000
55	Remove MBGR	\$17.00/ LF	150	\$3,000
56	Asphalt Concrete Base (8")	\$90.00/ TON	1,504	\$135,000
57	Class 2 Aggregate Base (20")	\$65.00/ CY	2,320	\$151,000
58	Class 2 Aggregate Base (4")	\$65.00/ CY	37	\$2,000
59	Cement Treated Permeable Base (4")	\$140.00/ CY	37	\$5,000
60	Drainage Mobilization	\$29,835.00/ LS	1	\$30,000
61	Pavement Marker	\$3,000.00/ LS	1	\$3,000
62	Temporary Pavement Marker	\$3,000.00/ LS	1	\$3,000
63	Temporary Striping	\$4,000.00/ LS	1	\$4,000
64	Temporary K-rail	\$19.00/ LF	1,700	\$32,000
65	Temporary Crash Cushion	\$325.00/ EA	5	\$2,000
66	Remove Overhead Signs	\$6,000.00/ EA	2	\$12,000
67	Lead Investigation	\$30,000.00/ LS	1	\$30,000
68	Construction Area Sign	\$30,000.00/ LS	1	\$30,000
69	Portable CMS	\$35,000.00/ LS	1	\$35,000
70	CHP/COZEPP	\$30,000.00/ LS	1	\$30,000
71	Traffic Management Plan	\$40,000.00/ LS	1	\$40,000
72	Public Awareness Campaign	\$10,000.00/ LS	1	\$10,000
73	RE Office	\$6,000.00/ MON	10	\$60,000
74	SWPPP Plan and Implementation	\$140,000.00/ LS	1	\$140,000
CONSTRUCTION SUBTOTAL				\$3,427,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$123,000
CONSTRUCTION SUBTOTAL				\$3,550,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$273,000
CONSTRUCTION SUBTOTAL				\$3,277,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$213,000
CONSTRUCTION SUBTOTAL				\$3,064,000
	Right-of-Way	\$71.66 / SF	0	\$0
	Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL				\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST				\$3,064,000
	Preliminary Project Development (15% of total construction cost)			\$460,000
	Design Engineering/Administration Costs (15% of total construction cost)			\$460,000
	Construction Engineering Costs/Administration (15% of total construction cost)			\$460,000
	Contingency (20% of total construction cost)			\$613,000
TOTAL PROJECT COSTS				\$5,057,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #9, I-5 at Jamboree Rd (SB off ramp)
Mitigation: + Add 2nd auxiliary lane from I-5 to the off ramp

Date: 6/11/2012
Originally Estimated by: RBF, PBS&J
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$228,000
2	Clear & Grub	\$12200 / AC	1.0	\$12,000
3	Earthwork	\$46.00 / CY	3,600	\$166,000
4	Remove Striping	\$13.00 / LF	3,500	\$46,000
5	Remove Curb & Gutter	\$36.00 / LF	0	\$0
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00/ SF	0	\$0
8	Remove Excavation (2 ft thick)	\$35.00/ CY	2,585	\$90,000
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00/ LF	370	\$32,000
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	3,500	\$4,000
14	Relocate Street Light	\$5,700.00 / EA	5	\$29,000
15	Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	4	\$3,000
17	Relocate Sign (1 post)	\$500.00/ EA	3	\$2,000
18A	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
18B	Overhead Sign (1 post)	\$160,000.00/ EA	2	\$320,000
19	Relocate Call Box	\$2,051.00/EA	1	\$2,000
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement (10 in)	\$380.00/ CY	190	\$72,000
34	Construct AC Pavement (7 in)	\$85.00/ TON	2,265	\$193,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	19,600	\$8,000
37	Construct Striping & Marking	\$3.80/ LF	7,000	\$27,000
38	Construct AC Dike	\$4.00 / LF	575	\$2,000
39	Construct Curb & Gutter	\$19.00 / LF	0	\$0
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45	Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Drainage	\$50,000.00/ LS	1	\$50,000
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	\$145,000.00/ LS	1	\$145,000
54	Remove Pavement Marker	\$7,000.00/ LS	1	\$7,000
55	Remove MBGR	\$15.00 / LF	370	\$6,000
56	Asphalt Concrete Base (8 in)	\$85.00/ TON	2,588	\$220,000
57	Class 2 Aggregate Base (20 in)	\$60.00/ CY	3,994	\$240,000
58	Class 2 Aggregate Base (4 in)	\$60.00/ CY	74	\$4,000
59	Cement Treated Permeable Base (4 in)	\$100.00/ CY	74	\$7,000
60	Pavement Marker	\$20,000.00/ LS	1	\$20,000
61	Temporary Pavement Marker	\$13,000.00/ LS	1	\$13,000
62	Temporary Striping	\$20,000.00/ LS	1	\$20,000
63	Temporary K-rail	\$20.00/LF	700	\$14,000
64	Temporary Crash Cushion	\$325.00/ EA	5	\$2,000
65	Remove Overhead Signs	\$6,000.00/ EA	2	\$12,000
66	Lead Investigation	\$25,000.00/ LS	1	\$25,000
67	Construction Area Sign	\$28,000.00/ LS	1	\$28,000
68	Portable CMS	\$32,000.00/ LS	1	\$32,000
69	CHP/COZEEP	\$25,000.00/ LS	1	\$25,000
70	Traffic Management Plan	\$30,000.00/ LS	1	\$30,000
71	Public Awareness Campaign	\$10,000.00/ LS	1	\$10,000
72	RE Office	\$6,000.00/ MON	10	\$60,000
73	SWPPP Plan and Implementation	\$90,000.00/ LS	1	\$72,000
	CONSTRUCTION SUBTOTAL			\$2,278,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$82,000
	CONSTRUCTION SUBTOTAL			\$2,360,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$182,000
	CONSTRUCTION SUBTOTAL			\$2,178,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$142,000
	CONSTRUCTION SUBTOTAL			\$2,036,000
	Right-of-Way	\$71.66 / SF	0	\$0
	Right-of-Way Management	5%		\$0
	RIGHT-OF-WAY SUBTOTAL			\$0
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$2,036,000
	Preliminary Project Development (15% of total construction cost)			\$305,000
	Design Engineering/Administration Costs (15% of total construction cost)			\$305,000
	Construction Engineering Costs/Administration (15% of total construction cost)			\$305,000
	Contingency (20% of total construction cost)			\$407,000
	TOTAL PROJECT COSTS			\$3,358,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #10. I-5 at Jeffrey Rd (SB on ramp)

Date: 6/11/2012

Mitigation: + Convert HOV preferential lane to a 2nd metered mixed flow lane

Originally Estimated by: RBF

Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$11,000
2	Clear & Grub	\$12200 / AC	0.0	\$0
3	Earthwork	\$46.00 / CY	0	\$0
4	Remove Striping	\$13.00 / LF	300	\$4,000
5	Remove Curb & Gutter	\$36.00 / LF	0	\$0
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8	Remove Pavement	\$5.00 / SF	0	\$0
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	0	\$0
14	Relocate Street Light	\$5,700.00 / EA	0	\$0
15	Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	0	\$0
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	10,800	\$4,000
37	Construct Striping & Marking	\$9.00 / LF	300	\$3,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	0	\$0
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45	Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control Systems	\$25,000.00/ LS	1	\$25,000
54	Remove Pavement Marker	\$2,000.00/ LS	1	\$2,000
55	Pavement Marker	\$2,000.00/ LS	1	\$2,000
56	Temporary Pavement Marker	\$2,000.00/ LS	1	\$2,000
57	Temporary Striping	\$2,000.00/ LS	1	\$2,000
58	Temporary K-rail	\$20.00/ LF	400	\$8,000
59	Temporary Crash Cushion	\$325.00/ EA	5	\$2,000
60	Lead Investigation	\$10,000.00/ LS	1	\$10,000
61	Construction Area Sign	\$10,000.00/ LS	1	\$10,000
62	Portable CMS	\$10,000.00/ LS	1	\$10,000
63	CHP/COZEEP	\$5,000.00/ LS	1	\$5,000
64	Traffic Management Plan	\$5,000.00/ LS	1	\$5,000
65	RE Office	\$6,000.00/ MON	1	\$6,000
66	SWPPP Plan and Implementation	\$15,000.00/ LS	1	\$2,000
CONSTRUCTION SUBTOTAL				\$113,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$4,000
CONSTRUCTION SUBTOTAL				\$117,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$9,000
CONSTRUCTION SUBTOTAL				\$108,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$7,000
CONSTRUCTION SUBTOTAL				\$101,000
	Right-of-Way	\$71.66 / SF	0	\$0
	Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL				\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST				\$101,000
	Preliminary Project Development (15% of total construction cost)			\$15,000
	Design Engineering/Administration Costs (15% of total construction cost)			\$15,000
	Construction Engineering Costs/Administration (15% of total construction cost)			\$15,000
	Contingency (20% of total construction cost)			\$20,000
TOTAL PROJECT COSTS				\$166,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #11. I-5 at Sand Canyon Ave (NB on ramp)

Date: 6/11/2012

Mitigation: + Convert HOV preferential lane to a 2nd metered mixed flow lane

Originally Estimated by: RBF

Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$38,000
2 Clear & Grub	\$12200 / AC	0.0	\$0
3 Earthwork	\$46.00 / CY	0	\$0
4 Remove Striping	\$13.00 / LF	700	\$9,000
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00/ SF	0	\$0
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00/ LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	0	\$0
14 Relocate Street Light	\$5,700.00 / EA	0	\$0
15 Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	0	\$0
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	23,400	\$9,000
37 Construct Striping & Marking	\$8.00/ LF	700	\$6,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$120,000.00/ LS	1	\$120,000
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control Systems	\$35,000.00/ LS	1	\$35,000
54 Remove Pavement Marker	\$3,500.00/ LS	1	\$4,000
55 Pavement Marker	\$3,500.00/ LS	1	\$4,000
56 Temporary Pavement Marker	\$3,000.00/ LS	1	\$3,000
57 Temporary Striping	\$3,500.00/ LS	1	\$4,000
58 Temporary K-rail	\$20.00/ LF	1,000	\$20,000
59 Temporary Crash Cushion	\$325.00/ EA	5	\$2,000
60 Lead Investigation	\$10,000.00/ LS	1	\$10,000
61 Construction Area Sign	\$20,000.00/ LS	1	\$20,000
62 Portable CMS	\$20,000.00/ LS	1	\$20,000
63 CHP/COZEPP	\$20,000.00/ LS	1	\$20,000
64 Traffic Management Plan	\$25,000.00/ LS	1	\$25,000
65 Public Awareness Campaign	\$10,000.00/ LS	1	\$10,000
66 RE Office	\$6,000.00/ MON	2	\$12,000
67 SWPPP Plan and Implementation	\$15,000.00/ LS	1	\$11,000
CONSTRUCTION SUBTOTAL			\$382,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$14,000
CONSTRUCTION SUBTOTAL			\$396,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$30,000
CONSTRUCTION SUBTOTAL			\$366,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$24,000
CONSTRUCTION SUBTOTAL			\$342,000
Right-of-Way	\$71.66 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$342,000
Preliminary Project Development (15% of total construction cost)			\$51,000
Design Engineering/Administration Costs (15% of total construction cost)			\$51,000
Construction Engineering Costs/Administration (15% of total construction cost)			\$51,000
Contingency (20% of total construction cost)			\$68,000
TOTAL PROJECT COSTS			\$563,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #13. I-405 at Irvine Center Dr (SB off ramp)
Mitigation: + Add 2nd auxiliary lane from I-405 to the off ramp

Date: 6/11/2012
Originally Estimated by: RBF, PBS&J
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$424,000
2	Clear & Grub	\$12200 / AC	0.9	\$11,000
3	Earthwork	\$46.00 / CY	13,000	\$598,000
4	Remove Striping	\$13.00 / LF	2,000	\$26,000
5	Remove Curb & Gutter	\$36.00 / LF	0	\$0
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8	Remove Pavement	\$5.00 / SF	22,700	\$114,000
9	Remove Channel	\$55.00 / LF	415	\$23,000
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	100	\$9,000
12	Remove & Relocate Tree	\$1,300.00 / EA	4	\$5,000
13	Sawcut	\$1.25 / LF	3,300	\$4,000
14	Relocate Street Light	\$5,700.00 / EA	8	\$46,000
15	Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	1	\$1,000
17	Relocate Sign (1 post)	\$500.00 / EA	8	\$4,000
18A	Overhead Sign	\$240,000.00 / EA	0	\$0
18B	Overhead Sign (1 post)	\$140,000.00 / EA	2	\$280,000
19	Relocate Call Box	\$2,051.00/EA	2	\$4,000
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement (10 in)	\$500.00/ CY	80	\$40,000
34	Construct AC Pavement	\$100.00/ TON	3,010	\$301,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$3.00/ LF	11,000	\$33,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	0	\$0
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45	Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$450.00/ CY	250	\$113,000
50	Construct Bridge Widening	\$500.00 / SF	1,600	\$800,000
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control System	\$240,000.00/ LS	1	\$240,000
54	Asphalt Concrete Base (8 in)	\$100.00/ TON	3,440	\$344,000
55	Class 2 Aggregate Base (20 in)	\$65.00/ CY	4,250	\$276,000
56	Class 2 Aggregate Base (4 in)	\$65.00/ CY	30	\$2,000
57	Cement Treated Permeable Base (4 in)	\$140.00/ CY	30	\$4,000
58	Drainage Mobilization	\$28,125.00/ LS	1	\$28,000
59	Remove Pavement Marker	\$5,000.00/ LS	1	\$5,000
60	Remove MBGR	\$20.00/ LF	100	\$2,000
61	Pavement Marker	\$20,000.00/ LS	1	\$20,000
62	Temporary Pavement Marker	\$16,000.00/ LS	1	\$16,000
63	Temporary Striping	\$20,000.00/ LS	1	\$20,000
64	Temporary K-rail	\$20,000.00/ LS	1	\$20,000
65	Temporary Crash Cushion	\$325.00/ EA	10	\$3,000
66	Remove Overhead Signs	\$6,000.00/ EA	1	\$6,000
67	Lead Investigation	\$25,000.00/ EA	1	\$25,000
68	RE Office	\$6,000.00/ MON	12	\$72,000
69	Construction Area Sign	\$50,000.00/ LS	1	\$50,000
70	Portable CMS	\$35,000.00/ LS	1	\$35,000
71	CHP/COZEPP	\$30,000.00/ LS	1	\$30,000
72	Traffic Management Plan	\$40,000.00/ LS	1	\$40,000
73	Public Awareness Campaign	\$10,000.00/ LS	1	\$10,000
74	SWPPP Plan & Implementation	\$160,000.00/ LS	1	\$159,000
CONSTRUCTION SUBTOTAL				\$4,243,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$153,000
CONSTRUCTION SUBTOTAL				\$4,396,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$338,000
CONSTRUCTION SUBTOTAL				\$4,058,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$264,000
CONSTRUCTION SUBTOTAL				\$3,794,000
	Right-of-Way	\$71.66 / SF	0	\$0
	Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL				\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST				\$3,794,000
Preliminary Project Development (15% of total construction cost)				\$569,000
Design Engineering/Administration Costs (15% of total construction cost)				\$569,000
Construction Engineering Costs/Administration (15% of total construction cost)				\$569,000
Contingency (20% of total construction cost)				\$759,000
TOTAL PROJECT COSTS				\$6,260,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #14, I-405 at Jeffrey Rd (NB off ramp)
Mitigation: + Add 2nd auxiliary lane from I-405 to the off ramp

Date: 6/11/2012
Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$378,000
2 Clear & Grub	\$12200 / AC	1.0	\$12,000
3 Earthwork	\$46.00 / CY	8,100	\$373,000
4 Remove Striping	\$13.00 / LF	6,350	\$83,000
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8 Remove Pavement	\$5.00 / SF	46,800	\$234,000
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	80	\$7,000
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	4,700	\$6,000
14 Relocate Street Light	\$5,700.00 / EA	7	\$40,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	4	\$3,000
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18A Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
18B Overhead Sign (1 post)	\$140,000.00 / EA	1	\$140,000
19 Relocate Call Box	\$2,051.00/EA	2	\$4,000
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	1	\$10,000
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement (10 in)	\$400.00/ CY	3,180	\$1,272,000
34 Construct AC Pavement	\$6.00 / SF	0	\$0
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$3.50 / LF	10,600	\$37,000
38 Construct AC Dike	\$4.00 / LF	900	\$4,000
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	300	\$37,000
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control Systems	\$200,000.00/ LS	1	\$200,000
54 Class 2 Aggregate Base (4 in)	\$75.00/ CY	1,270	\$95,000
55 Cement Treated Permeable Base (4 in)	\$120.00/ CY	1,270	\$152,000
56 Drainage Mobilization	\$11,650.00/ LS	1	\$12,000
57 Remove Pavement Marker	\$14,000.00/ LS	1	\$14,000
58 Remove MBGR	\$22.00/ LF	80	\$2,000
59 Pavement Marker	\$22,000.00/ LS	1	\$22,000
60 Temporary Pavement Marker	\$19,000.00/ LS	1	\$19,000
61 Temporary Striping	\$22,000.00/ LS	1	\$22,000
62 Temporary K-rail	\$19.00/ LF	11,000	\$209,000
63 Temporary Crash Cushion	\$325.00/ EA	10	\$3,000
64 Remove Overhead Signs	\$6,000.00/ EA	1	\$6,000
65 Lead Investigation	\$25,000.00/ LS	1	\$25,000
66 RE Office	\$6,000.00/ MON	10	\$60,000
67 Construction Area Sign	\$35,000.00/ LS	1	\$35,000
68 Portable CMS	\$35,000.00/ LS	1	\$35,000
69 CHP/COZEPP	\$30,000.00/ LS	1	\$30,000
70 Traffic Management Plan	\$40,000.00/ LS	1	\$40,000
71 Public Awareness Campaign	\$10,000.00/ LS	1	\$10,000
72 SWPPP Plan and Implementation	\$150,000.00/ LS	1	\$148,000
CONSTRUCTION SUBTOTAL			\$3,779,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$136,000
CONSTRUCTION SUBTOTAL			\$3,915,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$301,000
CONSTRUCTION SUBTOTAL			\$3,614,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$235,000
CONSTRUCTION SUBTOTAL			\$3,379,000
Right-of-Way	\$71.66 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$3,379,000
Preliminary Project Development (15% of total construction cost)			\$507,000
Design Engineering/Administration Costs (15% of total construction cost)			\$507,000
Construction Engineering Costs/Administration (15% of total construction cost)			\$507,000
Contingency (20% of total construction cost)			\$676,000
TOTAL PROJECT COSTS			\$5,576,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #15. I-405 at Sand Canyon Ave (NB on ramp)

Date: 6/11/2012

Mitigation: + Convert HOV preferential lane to a 2nd metered mixed flow lane

Originally Estimated by: RBF

Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$39,000
2 Clear & Grub	\$12200 / AC	0.0	\$0
3 Earthwork	\$46.00 / CY	0	\$0
4 Remove Striping	\$13.00 / LF	950	\$12,000
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00/ SF	0	\$0
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00/ LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	0	\$0
14 Relocate Street Light	\$5,700.00 / EA	0	\$0
15 Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	0	\$0
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	34,200	\$14,000
37 Construct Striping & Marking	\$8.00/ LF	950	\$8,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$120,000.00/ EA	1	\$120,000
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control Systems	\$35,000.00/ LS	1	\$35,000
54 Remove Pavement Marker	\$4,500.00/ LS	1	\$5,000
55 Pavement Marker	\$4,500.00/ LS	1	\$5,000
56 Temporary Pavement Marker	\$4,000.00/ LS		\$0
57 Temporary Striping	\$4,000.00/ LS		\$0
58 Temporary K-rail	\$20.00/ LF	1,000	\$20,000
59 Temporary Crash Cushion	\$325.00/ EA	5	\$2,000
60 Lead Investigation	\$10,000.00/ EA	1	\$10,000
61 RE Office	\$6,000.00/ MON	2	\$12,000
62 Construction Area Sign	\$20,000.00/ LS	1	\$20,000
63 Portable CMS	\$20,000.00/ LS	1	\$20,000
64 CHP/COZEPP	\$20,000.00/ LS	1	\$20,000
65 Traffic Management Plan	\$25,000.00/ LS	1	\$25,000
66 Public Awareness Campaign	\$10,000.00/ LS	1	\$10,000
67 SWPPP Plan and Implementation	\$15,000.00/ LS	1	\$15,000
CONSTRUCTION SUBTOTAL			\$392,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$14,000
CONSTRUCTION SUBTOTAL			\$406,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$31,000
CONSTRUCTION SUBTOTAL			\$375,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$24,000
CONSTRUCTION SUBTOTAL			\$351,000
Right-of-Way	\$71.66 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$351,000
Preliminary Project Development (15% of total construction cost)			\$53,000
Design Engineering/Administration Costs (15% of total construction cost)			\$53,000
Construction Engineering Costs/Administration (15% of total construction cost)			\$53,000
Contingency (20% of total construction cost)			\$70,000
TOTAL PROJECT COSTS			\$580,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #16. I-405 at Sand Canyon Ave (SB off ramp)
Mitigation: + Add 2nd auxiliary lane from I-405 to the off ramp

Date: 6/11/2012
Originally Estimated by: RBF
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$347,000
2	Clear & Grub	\$12200 / AC	1.2	\$15,000
3	Earthwork	\$46.00 / CY	4,900	\$225,000
4	Remove Striping	\$13.00 / LF	5,600	\$73,000
5	Remove Curb & Gutter	\$36.00 / LF	0	\$0
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8	Remove Pavement	\$5.00 / SF	49,500	\$248,000
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	165	\$14,000
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	5,000	\$6,000
14	Relocate Street Light	\$5,700.00 / EA	7	\$40,000
15	Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	5	\$4,000
17	Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18A	Overhead Sign (2 posts)	\$240,000.00 / EA	0	\$0
18B	Overhead Sign (1 post)	\$140,000.00 / EA	1	\$140,000
19	Relocate Call Box	\$2,051.00/EA	2	\$4,000
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	1	\$10,000
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$400.00/ CY	3,160	\$1,264,000
34	Construct AC Pavement	\$6.00 / SF	0	\$0
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$3.50/ LF	9,350	\$33,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	0	\$0
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45	Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control Systems	\$170,000.00/ LS	1	\$170,000
54	Class 2 Aggregate Base (4 in)	\$75.00/ CY	1,265	\$95,000
55	Cement Treated Permeable Base (4 in)	\$120.00/ CY	1,265	\$152,000
56	Drainage Mobilization	\$2,500.00/ LS	1	\$3,000
57	Remove Pavement Marker	\$12,000.00/ LS	1	\$12,000
58	Remove MBGR	\$20.00 / LF	165	\$3,000
59	Pavement Marker	\$20,000.00/ LS	1	\$20,000
60	Temporary Pavement Marker	\$16,000.00/ LS	1	\$16,000
61	Temporary Striping	\$20,000.00/ LS	1	\$20,000
62	Temporary K-rail	\$19.00 / LF	10,000	\$190,000
63	Temporary Crash Cushion	\$325.00/ EA	10	\$3,000
64	Lead Investigation	\$25,000.00/ LS	1	\$25,000
65	RE Office	\$6,000.00/ MON	10	\$60,000
66	Construction Area Sign	\$35,000.00/ LS	1	\$35,000
67	Portable CMS	\$30,000.00/ LS	1	\$30,000
68	CHP/COZEEP	\$30,000.00/ LS	1	\$30,000
69	Traffic Management Plan	\$35,000.00/ LS	1	\$35,000
70	Public Awareness Campaign	\$10,000.00/ LS	1	\$10,000
71	SWPPP Plan and Implementation	\$120,000.00/ LS	1	\$135,000
	CONSTRUCTION SUBTOTAL			\$3,467,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$125,000
	CONSTRUCTION SUBTOTAL			\$3,592,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$277,000
	CONSTRUCTION SUBTOTAL			\$3,315,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$215,000
	CONSTRUCTION SUBTOTAL			\$3,100,000
	Right-of-Way	\$71.66 / SF	0	\$0
	Right-of-Way Management	5%		\$0
	RIGHT-OF-WAY SUBTOTAL			\$0
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$3,100,000
	Preliminary Project Development (15% of total construction cost)			\$465,000
	Design Engineering/Administration Costs (15% of total construction cost)			\$465,000
	Construction Engineering Costs/Administration (15% of total construction cost)			\$465,000
	Contingency (20% of total construction cost)			\$620,000
	TOTAL PROJECT COSTS			\$5,115,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #17. SR-133 at Barranca Pkwy (SB on ramp)

Date: 6/11/2012

Mitigation: + Convert HOV preferential lane to a 2nd metered mixed flow lane

Originally Estimated by: RBF

Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$23,000
2	Clear & Grub	\$12200 / AC	0.0	\$0
3	Earthwork	\$46.00 / CY	0	\$0
4	Remove Striping	\$13.00 / LF	900	\$12,000
5	Remove Curb & Gutter	\$36.00 / LF	0	\$0
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8	Remove Pavement	\$5.00 / SF	0	\$0
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	0	\$0
14	Relocate Street Light	\$5,700.00 / EA	0	\$0
15	Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	0	\$0
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	32,400	\$13,000
37	Construct Striping & Marking	\$8.00 / LF	900	\$7,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	0	\$0
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45	Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control Systems	\$25,000.00/ LS	1	\$25,000
54	Remove Pavement Marker	\$4,000.00/ LS	1	\$4,000
55	Temporary Striping	\$5,000.00/ LS	1	\$5,000
56	Temporary Pavement Marker	\$50,000.00/ LS	1	\$50,000
57	Temporary K-rail	\$20.00/ LF	900	\$18,000
58	Temporary Crash Cushion	\$325.00/ EA	5	\$2,000
59	RE Office	\$6,000.00/ MON	1	\$6,000
60	Construction Area Sign	\$4,000.00/ LS	1	\$4,000
61	Portable CMS	\$25,000.00/ LS	1	\$25,000
62	CHP/COZEEP	\$5,000.00/ LS	1	\$5,000
63	Traffic Management Plan	\$10,000.00/ LS	1	\$10,000
64	Public Awareness Campaign	\$10,000.00/ LS	1	\$10,000
65	SWPPP Plan and Implementation	\$15,000.00/ LS	1	\$15,000
	CONSTRUCTION SUBTOTAL			\$234,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$8,000
	CONSTRUCTION SUBTOTAL			\$242,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$19,000
	CONSTRUCTION SUBTOTAL			\$223,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$14,000
	CONSTRUCTION SUBTOTAL			\$209,000
	Right-of-Way	\$71.66 / SF	0	\$0
	Right-of-Way Management	5%		\$0
	RIGHT-OF-WAY SUBTOTAL			\$0
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$209,000
	Preliminary Project Development (15% of total construction cost)			\$31,000
	Design Engineering/Administration Costs (15% of total construction cost)			\$31,000
	Construction Engineering Costs/Administration (15% of total construction cost)			\$31,000
	Contingency (20% of total construction cost)			\$42,000
	TOTAL PROJECT COSTS			\$344,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #19. SR-133/Trabuco Road Interchange
Mitigation: + Construct Interchange

Date: 12/12/2012
Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	COST
Roadway Items	\$36,046,842
Structure Items	\$14,764,308
Utilities	\$351,663
Subtotal Construction ¹	\$51,162,813
CCI 2010 --> 2010*	\$47,837,230
Right of Way (2010 Value) ²	\$39,746,170
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST	\$87,583,400
Project Development (PSR,PR,ED) 2%	\$794,923
Design Engineering 10% (Roadway, Structures and Utilities)	\$4,783,723
Construction Engineering/Administration 15% (Roadway, Structures and Utilities)	\$7,175,585
PROJECT COSTS (interchange)	\$100,337,631
PROJECT COSTS (PARTIAL - based on actual cost)³	\$413,218
TOTAL PROJECT COSTS	\$100,750,849

1 - Subtotal of Construction costs decreased by 7.7% from 2009.

2 - Right-of-way area reduced from 1,135,645 square feet to 1,118,980 square feet as a result of Trabuco Road right-of-way dedication required by development entitlement and right-of-way dedication maps dated 1/24/11 for the PA 40 Caltrans R/W NITM Agreement. Right-of-way unit cost increased 5% from 2009.

3 - No change to actual cost.

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
FINAL COST ESTIMATE (BASED ON ACTUAL COSTS)**

LOCATION: #19, SR-133/TRABUCO RD INTERCHANGE
MITIGATION: SR-133 SB RAMP

DATE: 6/19/07
ESTIMATED BY: MN, STANTEC

Sukut Item No.	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL
1	MOBILIZATION (2% OF CONST. COST)	1	LS	\$6,287.32	\$6,287.32
2	PAYMENT & PERFORMANCE BONDS (1.5% OF CONST. COST)	1	LS	\$4,715.49	\$4,715.49
3a	DEVELOP CONSTRUCTION WATER (PRO-RATED 6% OF TRABUCO, PA 9A CONTRACT)	1	LS	\$20,250.00	\$20,250.00
5a	CONSTRUCT TRAFFIC CONTROL (PRO-RATED 25% OF TRABUCO, PA 9A CONTRACT)	1	LS	\$20,085.41	\$20,085.41
6	SITE CLEARING AND GRUBBING (PRO-RATED 10% OF CONST. COST)	1	LS	\$8,000.00	\$8,000.00
11	UNCLASSIFIED EXCAVATION	17,600	CY	\$4.50	\$79,200.00
13	UNSUITABLE MATERIAL EXCAVATION AND RECOMPACTION	8,900	CY	\$2.05	\$18,245.00
14	PARKWAY AND SLOPE FINISH (+/-0.2FT)	32,600	SF	\$0.05	\$1,630.00
15 to 17	STORM WATER POLLUTION PREVENTION PLAN (PRO-RATED 18% OF CONST. COST)	1	LS	\$8,103.78	\$8,103.78
18	CONSTRUCT .75' AC OVER .73' AB	39,120	SF	\$2.75	\$107,580.00
19	PREPARE STREET SUBGRADE	39,120	SF	\$0.20	\$7,824.00
21	CONSTRUCT CURB & GUTTER	832	LF	\$7.00	\$5,824.00
23	CONSTRUCT CONCRETE SIDEWALK	275	SF	\$2.00	\$550.00
29	CONSTRUCT 14' LOCAL DEPRESSIONS	1	EA	\$1,500.00	\$1,500.00
30	CONSTRUCT 21' LOCAL DEPRESSIONS	1	EA	\$2,200.00	\$2,200.00
34	SAWCUT & REMOVE EXISTING PAVEMENT & BASE	22,162	SF	\$0.27	\$5,983.74
55	SIGNING & STRIPING (PRO-RATED 16% OF CONST. COST)	1	LS	\$4,000.00	\$4,000.00
63	CONSTRUCT 18" RCP 2000D	124	LF	\$70.00	\$8,680.00
66	CONSTRUCT 24" RCP 2000D	90	LF	\$54.00	\$4,860.00
87	CONSTRUCT 14' CATCH BASIN	1	EA	\$2,800.00	\$2,800.00
88	CONSTRUCT 21' CATCH BASIN	1	EA	\$4,600.00	\$4,600.00
89	CONSTRUCT JUNCTION STRUCTURE TYPE 1	1	EA	\$2,450.00	\$2,450.00
	TOTAL CONSTRUCTION TOTAL				\$325,368.74
	Project Development (2% of Total Const. Cost)				\$6,507.37
	Design Engineering (10% of Total Const. Cost)				\$32,636.87
	Construction Engineering Costs/Administration (15% of Total Const. Cost)				\$48,805.31
	TOTAL PROJECT COSTS				\$413,218.30

Location No. 19 - SR133 / Trabuco Road Interchange

The basis of project limit and cost items are based on preliminary cost estimate and design prepared by RBF Consulting. Portion of the Trabuco Road improvements (west of the SR133) are constructed as part of the AD # 03-19 (CIP # 313140) offsite infrastructure work by Sukut Construction (CONTRACT NO. 1036600).

- 1) Approximately 416 linear foot (street station 168+29 to station 172+45) of Trabuco Road improvements, west of SR133 bridge are within the NITM fee credit limits.
- 2) Construction items, quantities, and unit prices are based on actual costs from Sukut Construction contract (Contract No.1036600). Pro-rated items are items that are lump sum items in the contract, for this NITM fee credit estimate purposes, the items are pro-rated based on % of construction cost.
- 3) Project Development, Design Engineering and Construction Engineering / Administration Costs are based on same % used on the preliminary cost estimate by RBF Consulting.

Source: Cost Estimates from COI - this improvement has been constructed by The Irvine Company
V:\11990-NITM\Part-I Analysis\CostEstimates\CostEstimatesFromCity\SR-133 at Trabuco - Partial.pdf

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010* COST ESTIMATES**

Location: #20, SR-241 at Jeffrey Rd

Date: 6/11/2012

Mitigation: + Construct Interchange (Haul Rd Interchange-Diamond concept)

Originally Estimated by: RBF

Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$1,269,000
2 Clear & Grub	\$12200 / AC	1.4	\$17,000
3 Earthwork	\$46.00 / CY	0	\$0
4 Remove Striping	\$13.00 / LF	0	\$0
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00/ SF	0	\$0
8 Remove Pavement (2 ft thick)	\$40.00/ SF	2,393	\$96,000
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	3,230	\$4,000
14 Relocate Street Light	\$5,700.00 / EA	12	\$68,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	2	\$450,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$4,000.00/ EA	1	\$4,000
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	2	\$20,000
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement (7 in)	\$90.00/ TON	11,088	\$998,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$2.00 / LF	26,400	\$53,000
38 Construct AC Dike	\$4.00 / LF	8,800	\$35,000
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	12,000	\$1,368,000
47 Construct Storm Drain Main	\$122.00 / LF	600	\$73,000
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Toll Plaza Facility	\$2,000,000.00/ EA	2	\$4,000,000
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$120,000.00/ EA	1	\$120,000
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	\$900,000.00/ LS	1	\$900,000
54 Remove Pavement Marker	\$20,000.00/ LS	1	\$20,000
55 Asphalt Concrete Base (8 in)	\$90.00/ TON	12,672	\$1,140,000
56 Class 2 Aggregate Base (20 in)	\$45.00/ CY	19,555	\$880,000
57 Drainage Mobilization	\$18,300.00/ LS	1	\$18,000
58 Temporary K-rail	\$17.00/ LF	12,000	\$204,000
59 Temporary Crash Cushion	\$325.00/ EA	20	\$7,000
60 Temporary Striping	\$40,000.00/ LS	1	\$40,000
61 Temporary Pavement Marker	\$35,000.00/ LS	1	\$35,000
62 Lead Investigation	\$40,000.00/ LS	1	\$40,000
63 Construction Area Sign	\$70,000.00/ LS	1	\$70,000
64 Portable CMS	\$50,000.00/ LS	2	\$100,000
65 CHP/COZEPP	\$70,000.00/ LS	1	\$70,000
66 Traffic Management Plan	\$100,000.00/ LS	1	\$100,000
67 Public Awareness Campaign	\$25,000.00/ LS		\$0
68 RE Office	\$6,000.00/ MON	18	
69 SWPPP Plan and Implementation	\$700,000.00/ LS	1	\$492,000
CONSTRUCTION SUBTOTAL			\$12,691,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$457,000
CONSTRUCTION SUBTOTAL			\$13,148,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$1,012,000
CONSTRUCTION SUBTOTAL			\$12,136,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$789,000
CONSTRUCTION SUBTOTAL			\$11,347,000
Right-of-Way	\$71.66 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$11,347,000
Preliminary Project Development (15% of total construction cost)			\$1,702,000
Design Engineering/Administration Costs (15% of total construction cost)			\$1,702,000
Construction Engineering Costs/Administration (15% of total construction cost)			\$1,702,000
Contingency (20% of total construction cost)			\$2,269,000
TOTAL PROJECT COSTS			\$18,722,000

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C-3:

Updated 2011 Improvement Costs

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #34. Red Hill Ave at Irvine Blvd
Mitigation: + Apply ATMS

Date: 6/11/2012
Estimated by: City
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
Construction (2003)			\$65,000
California Highway Price Index	74.1%	CCI 2003 --> 2008	\$48,165
2008 CONSTRUCTION SUBTOTAL			\$113,165
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$4,000
CONSTRUCTION SUBTOTAL			\$117,165
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$9,000
CONSTRUCTION SUBTOTAL			\$108,165
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$7,000
CONSTRUCTION SUBTOTAL			\$101,165
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$3,000
CONSTRUCTION SUBTOTAL			\$98,165
Preliminary Project Development (10% of total Construction cost)			\$10,000
Design Engineering/Administration Costs (15% of total Construction cost)			\$15,000
Construction Engineering Costs/Administration (15% of total Construction cost)			\$15,000
Contingency (20% of total Construction cost)			\$20,000
TOTAL PROJECT COSTS			\$158,165

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #91. Tusting Ranch Rd & Irvine Blvd
Mitigation: + Apply ATMS

Date: 6/11/2012
Estimated by: City
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
Construction (2003)			\$65,000
California Highway Price Index Increase	74.1%	CCI 2003 --> 2008	\$48,165
2008 CONSTRUCTION SUBTOTAL			\$113,165
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$4,000
CONSTRUCTION SUBTOTAL			\$117,165
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$9,000
CONSTRUCTION SUBTOTAL			\$108,165
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$7,000
CONSTRUCTION SUBTOTAL			\$101,165
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$3,000
CONSTRUCTION SUBTOTAL			\$98,165
Preliminary Project Development (10% of total Construction cost)			\$10,000
Design Engineering/Administration Costs (15% of total Construction cost)			\$15,000
Construction Engineering Costs/Administration (15% of total Construction cost)			\$15,000
Contingency (20% of total Construction cost)			\$20,000
TOTAL PROJECT COSTS			\$158,165

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #123. Jamboree Rd at Tustin Ranch Rd
Mitigation: + Add 3rd NB and SB T lanes

Date: 6/11/2012
Originally Estimated by: RBF
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$2,000
2	Clear & Grub	\$12200 / AC	0.0	\$0
3	Earthwork	\$46.00 / CY	0	\$0
4	Remove Striping	\$13.00 / LF	0.5	\$0
5	Remove Curb & Gutter	\$36.00 / LF	0	\$0
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00/ SF	0	\$0
8	Remove Pavement	\$5.00 / SF	0	\$0
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00/ LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	0	\$0
14	Relocate Street Light	\$5,700.00 / EA	0	\$0
15	Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	0	\$0
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$2.00 / LF	0.5	\$0
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	0	\$0
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45	Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$2,000
54	SWPPP Plan and Implementation	6%	1	\$0
	CONSTRUCTION SUBTOTAL			\$4,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$144
	CONSTRUCTION SUBTOTAL			\$4,144
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$319
	CONSTRUCTION SUBTOTAL			\$3,825
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$249
	CONSTRUCTION SUBTOTAL			\$3,576
	California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$104
	CONSTRUCTION SUBTOTAL			\$3,472
	Right-of-Way	\$75.24 / SF	0	\$0
	Right-of-Way Management	5%		\$0
	RIGHT-OF-WAY SUBTOTAL			\$0
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$3,472
	Preliminary Project Development (10% of total Construction Cost)			\$1,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$1,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$1,000
	Contingency (20% of total Construction Cost)			\$1,000
	TOTAL PROJECT COSTS			\$7,472

* Notes:

- A. This intersection is a portion of a Segment 2, improvement of Jamboree Rd to six lanes from Portola Pkwy to north of Tustin Ranch Rd.
- B. Only restriping costs are included here. For the remainder of the construction costs, refer to the Segment 2 cost estimate.

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #125. Jamboree Rd at Irvine Blvd
Mitigation: + Convert SB Free RT lane to 4th T lane

Date: 6/11/2012
Originally Estimated by: RBF, PBS&J
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$67,000
2 Clear & Grub	\$12200 / AC	0.2	\$2,000
3 Earthwork	\$46.00 / CY	325	\$15,000
4 Remove Striping	\$13.00 / LF	300	\$4,000
5 Remove Curb & Gutter	\$36.00 / LF	650	\$23,000
6 Remove Median Curb	\$37.00 / LF	100	\$4,000
7 Remove PCC Sidewalk	\$5.00/ SF	4,100	\$21,000
8 Remove Pavement	\$5.00 / SF	600	\$3,000
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	2	\$3,000
13 Sawcut	\$1.25 / LF	400	\$1,000
14 Relocate Street Light	\$5,700.00 / EA	2	\$11,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	0.50	\$113,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	2	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	2	\$20,000
22 Relocate Fire Hydrant	\$5,000.00 / EA	2	\$10,000
23 Relocate Bus Bench	\$1,458.00/ EA	1	\$1,000
24 Relocate Monument Wall	\$6,100.00 / EA	1	\$6,000
25 Relocate Utility Boxes	\$895.00 / EA	2	\$2,000
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	2	\$20,000
28 Adjust Manhole to Grade	\$1,500.00 / EA	2	\$3,000
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	2	\$1,000
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	2	\$1,000
32 Modify Driveway	\$6,100.00 / LS	2	\$12,000
33 Construct PCC Pavement	\$7.50 / SF	2,640	\$20,000
34 Construct AC Pavement	\$6.00 / SF	3,780	\$23,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$2.00 / LF	1,000	\$2,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	650	\$12,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	2,000	\$26,000
44 Construct PCC Sidewalk	\$9.05 / SF	4,000	\$36,000
45 Construct Wheelchair Ramp	\$5,200.00 / EA	6	\$31,000
46 Construct Retaining Wall	\$114 / SF	900	\$103,000
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$42,000
54 SWPPP Plan and Implementation	6%	1	\$34,000
CONSTRUCTION SUBTOTAL			\$672,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$24,000
CONSTRUCTION SUBTOTAL			\$696,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$54,000
CONSTRUCTION SUBTOTAL			\$642,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$42,000
CONSTRUCTION SUBTOTAL			\$600,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$17,000
CONSTRUCTION SUBTOTAL			\$583,000
Right-of-Way	\$36.95 / SF	1,360	\$50,000
Right-of-Way Management	5%		\$3,000
RIGHT-OF-WAY SUBTOTAL			\$53,000
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$636,000
Preliminary Project Development (10% of total Construction Cost)			\$59,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$88,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$88,000
Contingency (20% of total Construction Cost)			\$117,000
TOTAL PROJECT COSTS			\$988,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2009 COST ESTIMATES**

9/16/2010

Location: 222. Culver Drive/Trabuco Road

Date: January 2008

Mitigation: Add 3rd NBT, add WB lane to convert WB approach to dual left and right

Actual Bid

Item No.		Item Description	QUANTITY	UNIT	Unit Price	Cost
1	(S)	Traffic Control System	1	LS	\$100,000.00	\$100,000.00
2	(S)	Construction Area Signs	1	LS	\$15,000.00	\$15,000.00
3		Construction Site Management	1	LS	\$5,000.00	\$5,000.00
4		Prepare Water Pollution Control Plan	1	LS	\$1,300.00	\$1,300.00
5		Temporary Fence (Type ESA)	270	LF	\$8.00	\$2,160.00
6		Temporary Erosion Control Blanket	470	SQYD	\$8.00	\$3,760.00
7		Temporary Drainage Inlet Protection	5	EA	\$400.00	\$2,000.00
8		Street Sweeping	1	LS	\$28,000.00	\$28,000.00
9		Temporary Concrete Washout (Portable)	1	LS	\$3,200.00	\$3,200.00
10		Develop Water Supply	1	LS	\$7,000.00	\$7,000.00
11		Lead Compliance Plan	1	LS	\$1,700.00	\$1,700.00
12		Clearing and Grubbing	1	LS	\$21,000.00	\$21,000.00
13		Roadway Excavation	7800	CY	\$25.00	\$195,000.00
14		Roadway Excavation (Type Z-2) (ADL)	320	CY	\$200.00	\$64,000.00
15		Imported Borrow	2700	CY	\$13.00	\$35,100.00
16		Asphalt Concrete (Type A)	720	TON	\$100.00	\$72,000.00
17		Aggregate Base (Class 2)	560	CY	\$90.00	\$50,400.00
18		Slurry Seal Type II	79000	SF	\$0.40	\$31,600.00
19		Remove Concrete Curb & Gutter	1630	LF	\$7.00	\$11,410.00
20		Remove Concrete Sidewalk and Island	12600	SF	\$1.00	\$12,600.00
21		Minor Concrete (Curbs, Gutters, Sidewalks, Curb Ramps, Islands, & Local Depressions)	280	CY	\$300.00	\$84,000.00
22		Reset Survey Monument	1	EA	\$1,800.00	\$1,800.00
23		Remove Drainage Facility	1	LS	\$4,500.00	\$4,500.00
24	(F)	Concrete Structures (Drainage)	30	CY	\$600.00	\$18,000.00
25		Slurry Cement Backfill	2	CY	\$300.00	\$600.00
26		12" Reinforced Concrete Pipe	35	LF	\$140.00	\$4,900.00
27		18" Reinforced Concrete Pipe	20	LF	\$140.00	\$2,800.00
28		24" Reinforced Concrete Pipe	10	LF	\$270.00	\$2,700.00
29		24" Corrugated Steel Pipe	5	LF	\$460.00	\$2,300.00
30		Adjust Manhole to Grade	1	EA	\$540.00	\$540.00
31		Drainage Inlet Marker	4	EA	\$300.00	\$1,200.00
32		Remove Roadside Sign	8	EA	\$50.00	\$400.00
33		Install Sign (Strap and Saddle Bracket Method)	5	EA	\$60.00	\$300.00
34		Roadside Sign (1 post)	8	EA	\$170.00	\$1,360.00
35		Roadside Sign (2 post)	3	EA	\$300.00	\$900.00
36		Furnish Sign	400	SF	\$30.00	\$12,000.00
37	(S)	Remove Striping	1	LS	\$7,000.00	\$7,000.00
38	(S)	Traffic Striping and Pavement Marking	1	LS	\$7,200.00	\$7,200.00
39		Object Marker (Type Q)	5	EA	\$60.00	\$300.00
40		Object Marker (Type K-1)	1	EA	\$60.00	\$60.00
41	(S)	Traffic Signal Modification	1	LS	\$80,000.00	\$80,000.00
42	(S)	Ramp Metering Conduit Installation	1	LS	\$42,000.00	\$42,000.00
43	(S)	Signal Interconnect Conduit Installation (City)	1	LS	\$240,000.00	\$240,000.00
44	(S-F)	Shotcrete	170	CY	\$600.00	\$102,000.00
45		Remove Slope Paving	1	LS	\$13,000.00	\$13,000.00
46		Structure Excavation (Tieback Wall)	330	CY	\$60.00	\$19,800.00
47		Structure Backfill (Tieback Wall)	20	CY	\$600.00	\$12,000.00
48	(S)	Tieback Anchors	180	EA	\$2,500.00	\$450,000.00
49	(F)	Structural Concrete, Retaining Wall	130	CY	\$1,300.00	\$169,000.00
50	(F)	Architectural Treatment (Fractured Fin)	3450	SF	\$11.00	\$37,950.00
51	(S-F)	Bar Reinforcing Steel (Retaining Wall)	41400	LB	\$1.50	\$62,100.00
52	(F)	Furnish Sign Structure (Bridge Mounted without Walkway)	550	LB	\$30.00	\$16,500.00
53	(F)	Install Sign Structure (Bridge Mounted without Walkway)	1	LS	\$12,000.00	\$12,000.00
54		Slope Paving (Concrete)	40	CY	\$600.00	\$24,000.00
55		Minor Concrete (Wall Gutter)	20	CY	\$400.00	\$8,000.00
56	(S)	Cable Railing	440	LF	\$18.00	\$7,920.00
57		Geocomposite Drain	950	SF	\$12.00	\$11,400.00
58	(S)	Highway Planting	1	LS	\$47,000.00	\$47,000.00
59	(S)	Irrigation System	1	LS	\$67,000.00	\$67,000.00
60	(S)	Plant Establishment Work	1	LS	\$12,000.00	\$12,000.00
61		Mobilization	1	LS	\$45,240.00	\$45,240.00
Construction Subtotal						\$2,294,000.00
Preliminary Project Development (Actual Expenditure)						\$173,145.00
Design Engineering/Administration (Actual Expenditure)						\$385,550.00
Right of Way Administration (Actual Expenditure)						\$510.89
Construction Engineering/Administration (15% of Construction Subtotal)						\$ 181,762.00
Construction Contingency (20% of Construction Subtotal)						\$ 156,597.00
Total Project Cost						\$3,191,564.89

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2011 COST ESTIMATES
ENGINEER'S COST ESTIMATE
I-5/CULVER DRIVE INTERCHANGE PROJECT
CITY OF IRVINE PROJECT COST**

LOCATION: #223 - CULVER DRIVE AT I-5 SOUTHBOUND RAMPS
MITIGATION: IMPROVE EB APPROACH TO PROVIDE 3 LEFT-TURN LANES AND 2 RIGHT-TURN LANES

6/11/2012

Revised by: HA

Item No.	Item No.	Item Description	Unit of Measure	Unit Cost	Estimated Quantity	Item Cost
37	153153	Cold Plane Asphalt Concrete Pavement (45 mm Maximum)	m ²	\$11	993.28	\$10,926
38	153214	Remove Concrete Curb	m	\$200	4.096	\$819
39	153218	Remove Concrete Sidewalk	m ³	\$200	12.288	\$2,458
42	190101	Roadway Excavation	m ³	\$35	1751.04	\$61,286
46	198001	Import Borrow	m ³	\$15	919.04	\$13,786
47	198050	Embankment	m ³	\$50	222.72	\$11,136
56	208910A	Extend Irrigation Crossover	LS	\$2,500	Lump Sum	\$640
57	260201	Class 2 Aggregate Base	m ³	\$50	84.48	\$4,224
58	280000	Lean Concrete Base	m ³	\$200	220.9	\$44,180
59	390102	Asphalt Concrete (Type A)	tonne	\$90	320	\$28,800
60	390126	Rubberized Asphalt Concrete (Type G)	tonne	\$125	192	\$24,000
62	401066	Concrete Pavement (Ramp Termini)	m ³	\$300	56.4	\$16,920
64	510512A	1980 x 760 mm Precast Concrete Box Culvert	m	\$1,485	4.76	\$7,069
65 (F)	560218	Furnish Sign Structure (Truss)	kg	\$7.00	2464	\$17,248
66 (S-F)	560219	Install Sign Structure (Truss)	kg	\$1.00	2464	\$2,464
82	731656	Curb Ramp Detectable Warning Surface	m ²	\$500	0.4	\$179
89 (S)	840515	Thermoplastic Pavement Marking	m ²	\$40.00	17	\$666
90 (S)	840561	100 mm Thermoplastic Traffic Stripe	m	\$2.50	645	\$1,613
91	840563	200 mm Thermoplastic Traffic Stripe	m	\$3.00	207	\$622
92	840656	Paint Traffic Stripe (2-Coat)	m	\$2.00	376	\$753
93	850101	Pavement Marker (Non-Reflective)	EA	\$2.50	79	\$198
94	850111	Pavement Marker (Retroreflective)	EA	\$2.50	197	\$493
98	999990	Mobilization	LS	\$250,000	Lump Sum	\$64,000
SUBTOTAL ITEMS						\$314,479
		California Highway Price Index	+3.6%	CCI 2008 --> 2009		\$11,000
CONSTRUCTION SUBTOTAL						\$325,479
		California Highway Price Index	(7.7%)	CCI 2009 --> 2010		-\$25,000
CONSTRUCTION SUBTOTAL						\$300,479
		California Highway Price Index	(6.5%)	CCI 2010 --> 2010*		-\$20,000
CONSTRUCTION SUBTOTAL						\$280,479
		California Highway Price Index	(2.9%)	CCI 2010* --> 2011		-\$8,000
CONSTRUCTION SUBTOTAL						\$272,479
SUPPLEMENTAL ITEMS						
99	66070	Maintain Traffic	LS	\$10,000	Lump Sum	\$2,560
103	66610	Partnering	LS	\$5,000	Lump Sum	\$1,280
104	66861	Maintain Existing and Temporary Electrical System	LS	\$10,000	Lump Sum	\$2,560
SUBTOTAL ITEMS						\$6,400
		Contingency (5%)				\$13,624
		Caltrans oversight				\$26,397
SUBTOTAL						\$318,900
		Contingency (10%)*				\$31,890
		Construction Engineering Costs/Administration (5% of total Construction/RW cost)				\$15,945
TOTAL PROJECT COSTS						\$366,735

* Caltrans cooperation agreement states that City obligation could be more than \$363,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #224. Culver Drive & Walnut Ave
Mitigation: + Apply ATMS

Date: 6/11/2012
Estimated by: PM
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
Construction			\$65,000
California Highway Price Index Increase	74.1%	CCI 2003 --> 2008	\$48,165
2008 CONSTRUCTION SUBTOTAL			\$113,165
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$4,000
CONSTRUCTION SUBTOTAL			\$117,165
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$9,000
CONSTRUCTION SUBTOTAL			\$108,165
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$7,000
CONSTRUCTION SUBTOTAL			\$101,165
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$3,000
CONSTRUCTION SUBTOTAL			\$98,165
Preliminary Project Development (10% of total Construction cost)			\$10,000
Design Engineering/Administration Costs (15% of total Construction cost)			\$15,000
Construction Engineering Costs/Administration (15% of total Construction cost)			\$15,000
Contingency (20% of total Construction cost)			\$20,000
TOTAL PROJECT COSTS			\$158,165

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #235. Culver Dr at University Dr

Date: 6/11/2012

Mitigation: + Convert NB de-Facto RT lane to dual RT lanes

Originally Estimated by: RBF, PBS&J

+ Add EB de-Facto RT lane, SB de-Facto RT lane and 2nd NB & SB LT lanes

Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$270,000
2 Clear & Grub	\$12200 / AC	0.36	\$4,000
3 Earthwork	\$46.00 / CY	4,530	\$208,000
4 Remove Striping	\$13.00 / LF	5,500	\$72,000
5 Remove Curb & Gutter	\$36.00 / LF	2,800	\$101,000
6 Remove Median Curb	\$37.00 / LF	2,150	\$80,000
7 Remove PCC Sidewalk	\$5.00 / SF	12,000	\$60,000
8 Remove Pavement	\$5.00 / SF	12,950	\$65,000
9 Remove Channel	\$19.00 / LF	40	\$1,000
10 Remove/Replace Chain Link Fence	\$31.00 / LF	300	\$9,000
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	86	\$112,000
13 Sawcut	\$1.25 / LF	4,850	\$6,000
14 Relocate Street Light	\$5,700.00 / EA	8	\$46,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	1.00	\$225,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	10	\$2,000
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	2	\$20,000
22 Relocate Fire Hydrant	\$5,000.00 / EA	3	\$15,000
23 Relocate Bus Bench	\$1,458.00/ EA	3	\$4,000
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	35	\$31,000
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	2	\$20,000
28 Adjust Manhole to Grade	\$1,500.00 / EA	14	\$21,000
29 Adjust Water Meter	\$610.00 / EA	8	\$5,000
30 Adjust Water Valve	\$610.00 / EA	7	\$4,000
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	10	\$6,000
32 Modify Driveway	\$6,100.00 / LS	3	\$18,000
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	22,300	\$134,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	110,000	\$44,000
37 Construct Striping & Marking	\$2.00 / LF	5,500	\$11,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	2,800	\$53,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	2,150	\$67,000
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	2,800	\$36,000
44 Construct PCC Sidewalk	\$9.05 / SF	12,000	\$109,000
45 Construct Wheelchair Ramp	\$5,200.00 / EA	4	\$21,000
46 Construct Retaining Wall	\$114 / SF	4,000	\$456,000
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	100	\$55,000
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$170,000
54 SWPPP Plan and Implementation	0.06	1	\$137,000
CONSTRUCTION SUBTOTAL			\$2,698,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$97,000
CONSTRUCTION SUBTOTAL			\$2,795,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$215,000
CONSTRUCTION SUBTOTAL			\$2,580,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$168,000
CONSTRUCTION SUBTOTAL			\$2,412,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$70,000
CONSTRUCTION SUBTOTAL			\$2,342,000
Right-of-Way	\$46.31 / SF	5,400	\$250,000
Right-of-Way Management	5%		\$13,000
RIGHT-OF-WAY SUBTOTAL			\$263,000
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$2,605,000
Preliminary Project Development (10% of total Construction Cost)			\$235,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$352,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$352,000
Contingency (20% of total Construction Cost)			\$469,000
TOTAL PROJECT COSTS			\$4,013,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #249. Yale Ave and Irvine Blvd
Mitigation: + Add 2nd SB LT lane

Date: 6/11/2012
Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$212,000
2 Clear & Grub	\$12200 / AC	0.4	\$5,000
3 Earthwork	\$46.00 / CY	7,556	\$348,000
4 Remove Striping	\$13.00 / LF	4,500	\$59,000
5 Remove Curb & Gutter	\$36.00 / LF	2,070	\$75,000
6 Remove Median Curb	\$37.00 / LF	925	\$34,000
7 Remove PCC Sidewalk	\$5.00/ SF	10,350	\$52,000
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	21	\$27,000
13 Sawcut	\$1.25 / LF	1,950	\$2,000
14 Relocate Street Light	\$5,700.00 / EA	2	\$11,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	0.75	\$169,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	1	\$1,000
17 Relocate Sign (1 post)	\$220.00 / EA	5	\$1,000
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	4	\$20,000
23 Relocate Bus Bench	\$1,458.00/ EA	1	\$1,000
24 Relocate Monument Wall	\$6,100.00 / EA	1	\$6,000
25 Relocate Utility Boxes	\$895.00 / EA	10	\$9,000
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	5	\$8,000
29 Adjust Water Meter	\$610.00 / EA	1	\$1,000
30 Adjust Water Valve	\$610.00 / EA	1	\$1,000
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	9	\$5,000
32 Modify Driveway	\$6,100.00 / LS	2	\$12,000
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	18,400	\$110,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	52,000	\$21,000
37 Construct Striping & Marking	\$2.00 / LF	6,520	\$13,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	2,070	\$39,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	1,050	\$33,000
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	10,350	\$94,000
45 Construct Wheelchair Ramp	\$5,200.00 / EA	4	\$21,000
46 Construct Retaining Wall	\$114 / SF	4,250	\$485,000
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$133,000
54 SWPPP Plan and Implementation	6%	1	\$108,000
CONSTRUCTION SUBTOTAL			\$2,116,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$76,000
CONSTRUCTION SUBTOTAL			\$2,192,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$169,000
CONSTRUCTION SUBTOTAL			\$2,023,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$131,000
CONSTRUCTION SUBTOTAL			\$1,892,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$55,000
CONSTRUCTION SUBTOTAL			\$1,837,000
Right-of-Way	\$75.24 / SF	18,400	\$1,384,000
Right-of-Way Management	5%		\$69,000
RIGHT-OF-WAY SUBTOTAL			\$1,453,000
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$3,290,000
Preliminary Project Development (10% of total Construction Cost)			\$184,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$276,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$276,000
Contingency (20% of total Construction Cost)			\$368,000
TOTAL PROJECT COSTS			\$4,394,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: 288. Jeffrey Rd & Walnut Avenue/I-5 SB Ramps
Mitigation: Add EB shared 2nd T lane/2nd RT lane

Date: 6/11/2012
Originally Estimated by: RBF
Revised by: HA

	DESCRIPTION OF WORK	COST		
1	Mobilization	\$40,490		
2	Demolition and Removal Work	\$23,495		
3	Roadway Surfacing	\$13,350		
4	Roadway Items	\$28,540		
5	Traffic Signals	\$297,400		
6	Traffic Signing and Striping	\$4,781		
7	Utilities	\$7,700		
8	Landscaping	\$7,600		
9	Miscellaneous	\$22,000		
10	Construction Cost	\$445,400		
	Contingency (25%)	\$111,400		
	Total Construction Cost	\$556,800		
11	Right-of-Way	\$281,550		
12	Design	\$83,500		
13	Construction Management (15%)	\$83,500		
14	Project Cost	\$1,005,350		
15	Preliminary Project Development (actual)	\$126,029		
	TOTAL PROJECT COSTS	\$1,131,379		
	California Highway Price Index	\$36,000	+3.6%	CCI 2008 --> 2009
	TOTAL PROJECT COSTS	\$1,167,379		
	California Highway Price Index	-\$87,000	(7.7%)	CCI 2009 --> 2010
	TOTAL PROJECT COSTS	\$1,080,379		
	California Highway Price Index	-\$76,000	(6.5%)	CCI 2010 --> 2010*
	TOTAL PROJECT COSTS	\$1,004,379		
	California Highway Price Index	-\$29,000	(2.9%)	CCI 2010* --> 2011
	TOTAL PROJECT COSTS	\$975,379		

For detailed cost estimates for each items listed under Description of Costs, refer to cost estimates provided by DMJM Harris/AECOM

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: 289. Jeffret Rd & Irvine Center Dr

Date: 6/11/2012

Mitigation: Add 4th WB lane (2030); and NB through lanes and 3rd SB left-turn lane and convert SB right turn lane to 4th through lane.

Originally Estimated by: RBF

Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$342,000
2	Clear & Grub	\$12200 / AC	1.5	\$19,000
3	Earthwork	\$46.00 / CY	5,900.0	\$271,000
4	Remove Striping	\$13.00 / LF	6,134.0	\$80,000
5	Remove Curb & Gutter	\$36.00 / LF	6,200.0	\$223,000
6	Remove Median Curb	\$37.00 / LF	2,000.0	\$74,000
7	Remove PCC Sidewalk	\$5.00/ SF	27,856.0	\$139,000
8	Remove Pavement	\$5.00 / SF	0.0	\$0
9	Remove Channel	\$19.00 / LF	0.0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	680	\$21,000
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	61	\$79,000
13	Sawcut	\$1.25 / LF	6,200	\$8,000
14	Relocate Street Light	\$5,700.00 / EA	14	\$80,000
15	Relocate Traffic Signal System	\$225,000.00 / EA	1.00	\$225,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	1	\$1,000
17	Relocate Sign (1 post)	\$220.00 / EA	6	\$1,000
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	2	\$50,000
21	Relocate Catch Basin	\$9,760.00 / EA	6	\$59,000
22	Relocate Fire Hydrant	\$5,000.00 / EA	4	\$20,000
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	4	\$24,000
25	Relocate Utility Boxes	\$895.00 / EA	26	\$23,000
26	Relocate Main Water Valve	\$12,200.00 / EA	2	\$24,000
27	Relocate Utility Vault	\$10,000 / EA	1	\$10,000
28	Adjust Manhole to Grade	\$1,500.00 / EA	8	\$12,000
29	Adjust Water Meter	\$610.00 / EA	2	\$1,000
30	Adjust Water Valve	\$610.00 / EA	21	\$13,000
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	6	\$4,000
32	Modify Driveway	\$6,100.00 / LS	4	\$24,000
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	67,164	\$403,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	240,500	\$96,000
37	Construct Striping & Marking	\$2.00 / LF	10,964	\$22,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	6,200	\$118,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	2,900	\$90,000
42	Construct Median Concrete	\$7.9 / SF	10,200	\$81,000
43	Construct Median/Parkway Landscaping	\$13.00 / SF	2,760	\$36,000
44	Construct PCC Sidewalk	\$9.05 / SF	27,056	\$245,000
45	Construct Wheelchair Ramp	\$5,200.00 / EA	8	\$42,000
46	Construct Retaining Wall	\$114 / SF	300	\$34,000
46.1	Remove Retaining Wall	\$74.00/SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49(03)	Construct Channel (Earthen)	\$12.2 / LF	750	\$9,000
50(03)	Construct Portable Delineator	\$36.60 / EA	22	\$1,000
49	Construct Concrete V-Ditch	\$19.00 / LF	1,315	\$25,000
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$215,000
54	SWPPP Plan and Implementation	6%	1	\$174,000
CONSTRUCTION SUBTOTAL				\$3,418,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$123,000
CONSTRUCTION SUBTOTAL				\$3,541,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$273,000
CONSTRUCTION SUBTOTAL				\$3,268,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$212,000
CONSTRUCTION SUBTOTAL				\$3,056,000
	California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$89,000
CONSTRUCTION SUBTOTAL				\$2,967,000
	Right-of-Way	\$75.24 / SF	78,400	\$5,899,000
	Right-of-Way Management	5%		\$295,000
RIGHT-OF-WAY SUBTOTAL				\$6,194,000
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST				\$9,161,000
	Preliminary Project Development (10% of total Construction Cost)			\$297,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$445,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$445,000
	Contingency (20% of total Construction Cost)			\$593,000
TOTAL PROJECT COSTS				\$10,941,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #291. Jeffrey Rd at Alton Pkwy

Date: 6/11/2012

Mitigation: + Add 3rd EB T lane, Convert NB free RT lane to standard RT lane
+ Add SB defacto RT lane

Originally Estimated by: RBF
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$63,000
2	Clear & Grub	\$12200 / AC	0.2	\$2,000
3	Earthwork	\$46.00 / CY	1,800	\$83,000
4	Remove Striping	\$13.00 / LF	3,500	\$46,000
5	Remove Curb & Gutter	\$36.00 / LF	1,200	\$43,000
6	Remove Median Curb	\$37.00 / LF	200	\$7,000
7	Remove PCC Sidewalk	\$5.00/ SF	4,000	\$20,000
8	Remove Pavement	\$5.00 / SF	0	\$0
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00/ LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	13	\$17,000
13	Sawcut	\$1.25 / LF	1,200	\$2,000
14	Relocate Street Light	\$5,700.00 / EA	0	\$0
15	Relocate Traffic Signal System	\$225,000.00 / EA	0.50	\$113,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	3	\$1,000
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	1	\$10,000
22	Relocate Fire Hydrant	\$5,000.00 / EA	1	\$5,000
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	1	\$1,000
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	1	\$2,000
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	3	\$2,000
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	6,300	\$38,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	18,800	\$8,000
37	Construct Striping & Marking	\$2.00 / LF	4,300	\$9,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	1,200	\$23,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	2,400	\$31,000
44	Construct PCC Sidewalk	\$9.05 / SF	3,000	\$27,000
45	Construct Wheelchair Ramp	\$5,200.00 / EA	1	\$5,000
46	Construct Retaining Wall	\$114 / SF	0	\$0
46.1	Remove Retaining Wall	\$74.00 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$40,000
54	SWPPP Plan and Implementation	6%	1	\$32,000
	CONSTRUCTION SUBTOTAL			\$630,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$23,000
	CONSTRUCTION SUBTOTAL			\$653,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$50,000
	CONSTRUCTION SUBTOTAL			\$603,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$39,000
	CONSTRUCTION SUBTOTAL			\$564,000
	California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$16,000
	CONSTRUCTION SUBTOTAL			\$548,000
	Right-of-Way	\$75.24 / SF	4,000	\$301,000
	Right-of-Way Management	5%		\$15,000
	RIGHT-OF-WAY SUBTOTAL			\$316,000
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$864,000
	Preliminary Project Development (10% of total Construction Cost)			\$55,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$83,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$83,000
	Contingency (20% of total Construction Cost)			\$110,000
	TOTAL PROJECT COSTS			\$1,195,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
FINAL COST ESTIMATE (BASED ON ACTUAL COSTS)**

10.21.08

LOCATION: #302, SAND CANYON AVE. AT TRABUCO RD.
MITIGATION: CONVERT EB RT LANE TO FREE RT LANE.

DATE: 9/17/2010
ESTIMATED BY: PM

Sully Miller Item No.	Sukut Item No.	DESCRIPTION OF WORK	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL
1		MOBILIZATION (2% OF CONST. COST)	1	LS	\$6,024.00	\$6,024.00
2		PAYMENT AND PERFORMANCE BONDS (1.5% OF CONST. COST)	1	LS	\$4,518.00	\$4,518.00
3		DEVELOP CONSTRUCTION WATER (PRO-RATED 20% OF CONST. COST)	1	LS	\$10,000.00	\$10,000.00
4 & CO #2		TRAFFIC CONTROL (PRO-RATED 11% OF CONST. COST)	1	LS	\$20,000.00	\$20,000.00
6		CLEAR & GRUB (PRO-RATED 40% OF CONST. COST)	1	LS	\$8,000.00	\$8,000.00
	11	UNCLASSIFIED EXCAVATION	5,300	CY	\$4.50	\$23,850.00
	13	UNSUITABLE MATERIAL EXCAVATION AND RECOMPACTION	5,300	CY	\$2.05	\$10,865.00
13		PARKWAY AND SLOPE FINISH (+/- 0.2 FT.)	42,200	SF	\$0.16	\$6,752.00
14 to 16		SWPPP PLAN AND IMPLEMENTATION (PRO-RATED 7% OF CONT)	1	LS	\$14,887.82	\$14,887.82
17		PREPARE STREET SUBGRADE	23,900	SF	\$0.25	\$5,975.00
20A		CONSTRUCT AGGREGATE BASE	23,900	SF	\$0.90	\$21,510.00
23A		CONSTRUCT AC PAVEMENT	23,900	SF	\$1.50	\$35,850.00
29		CONSTRUCT MEDIAN CURB	235	LF	\$11.00	\$2,585.00
30		CONSTRUCT CURB & GUTTER	1,205	LF	\$13.00	\$15,665.00
35		CONSTRUCT WHEELCHAIR RAMP	4	EA	\$550.00	\$2,200.00
36		CONSTRUCT DETECTABLE WARNING SURFACE FOR ACCESS RAMP	4	EA	\$600.00	\$2,400.00
40		CONSTRUCT SUB TURNOUT	960	SF	\$10.28	\$9,868.80
51		REMOVE EXISTING PAVEMENT & SAWCUT	1,050	SF	\$0.50	\$525.00
59		REMOVE CURB & GUTTER	130	LF	\$1.80	\$234.00
65		REMOVE EXISTING A.C. RAMP & PAVEMENT	1	EA	\$350.00	\$350.00
69 & 70		CONSTRUCT STRIPING & MARKING (PRO-RATED 6.5% OF CONST. COST)	1	LS	\$3,917.55	\$3,917.55
79		CONSTRUCT MEDIAN CONCRETE	2,075	SF	\$5.60	\$11,620.00
79		CONSTRUCT PCC SIDEWALK	5,300	SF	\$5.60	\$29,680.00
84		RELOCATE TRAFFIC SIGNAL SYSTEM	0.25	EA	\$243,600.00	\$60,900.00
147 New CO #3		RELOCATE FIRE HYDRANT	1	EA	\$3,565.00	\$3,565.00
		TOTAL CONSTRUCTION COST				\$311,742.18
CCI 2008 --> 2009		California Highway Price Index	+3.6%			\$11,000.00
		CONSTRUCTION SUBTOTAL				\$322,742.18
CCI 2009 --> 2010		California Highway Price Index	(7.7%)			-\$25,000.00
		CONSTRUCTION SUBTOTAL				\$297,742.18
		Preliminary Project Development (10% of total Construction Cost)				\$29,774.22
		Design Engineering/Administration Costs (15% of total Construction Cost)				\$44,661.33
		Construction Engineering Costs/Administration (15% of total Construction Cost)				\$44,661.33
		TOTAL PROJECT COSTS				\$416,839.05

Location No. 302, Sand Canyon Ave. at Trabuco Road.

The basis of project limit and cost items are based on preliminary cost estimate and design prepared by RBF Consulting, dated 2/13/2003.

Portion of the Trabuco Road Improvements (west of the Sand Canyon intersection) are constructed as part of the AD # 03-19 (CIP # 31, 3140) offsite infrastructure work by Sukut Construction (Contract No. 1036600). Portion of the Sand Canyon improvements including the traffic signal relocation are constructed as part of the AD #03-19 (CIP #314,900) offsite infrastructure work by Sully-Miller Contracting (Contract No. 1043500)

1) Approximately 515 linear foot (street station 156+15 to station 161+30) of right turn lane as part of Trabuco Road improvements, west of Sand Canyon intersection are within the NITM fee credit limits.

2) Approximately 770 linear foot (street station 45+00 to station 52+70) of free right turn lane transition lane as part of Sand Canyon improvements, south of Trabuco Road intersection are within the NITM fee credit limits. Sand Canyon Avenue improvements included the free right turn median island and traffic signal modification work.

3) Construction items, quantities, and unit prices are based on actual costs from Sukut Construction and Sully Miller contracts. Pro-rated items are items that are lump sum items in the contracts, for this NITM fee credit estimate purposes, the items are prorated based on % of construction cost.

4) Preliminary Project Development, Design Engineering and Construction Engineering / Administration Costs are based on same % used on the preliminary cost estimate by RBF consulting.

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #303. Sand Canyon Ave at I-5 NB ramps/Marine Wy

Date: 6/11/2012

Mitigation: + Add 3rd NB & SB T lanes, improve EB approach
to provide 2 LT lanes

Originally Estimated by: RBF

Revised by: HA

+ 1 T lane & 1 RT lane, Restripe WB approach to provide 1 LT lane, 1.5 T lanes & 1.5 RT lanes

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$206,000
2 Clear & Grub	\$12200 / AC	1.0	\$12,000
3 Earthwork	\$46.00 / CY	5,300	\$244,000
4 Remove Striping	\$13.00 / LF	2,100	\$27,000
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8 Remove Pavement	\$5.00 / SF	2,900	\$15,000
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Bean Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	6	\$8,000
13 Sawcut	\$1.25 / LF	2,900	\$4,000
14 Relocate Street Light	\$5,700.00 / EA	1	\$6,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	1.50	\$338,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	2	\$1,000
17 Relocate Sign (1 post)	\$220.00 / EA	1	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	1	\$25,000
21 Relocate Catch Basin	\$9,760.00 / EA	2	\$20,000
22 Relocate Fire Hydrant	\$5,000.00 / EA	1	\$5,000
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	10	\$9,000
26 Relocate Main Water Valve	\$12,200.00 / EA	1	\$12,000
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	2	\$3,000
29 Adjust Water Meter	\$610.00 / EA	2	\$1,000
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	7	\$4,000
32 Modify Driveway	\$6,100.00 / LS	1	\$6,000
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	62,120	\$373,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	60,500	\$24,000
37 Construct Striping & Marking	\$2.00 / LF	4,650	\$9,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	2,210	\$42,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	150	\$5,000
42 Construct Median Concrete	\$7.9 / SF	1,250	\$10,000
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	12,400	\$112,000
45 Construct Wheelchair Ramp	\$5,200.00 / EA	6	\$31,000
46 Construct Retaining Wall	\$114 / SF	2,300	\$262,000
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	400	\$8,000
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$129,000
54 SWPPP Plan and Implementation	6%	1	\$105,000
CONSTRUCTION SUBTOTAL			\$2,056,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$74,000
CONSTRUCTION SUBTOTAL			\$2,130,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$164,000
CONSTRUCTION SUBTOTAL			\$1,966,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$128,000
CONSTRUCTION SUBTOTAL			\$1,838,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$53,000
CONSTRUCTION SUBTOTAL			\$1,785,000
Right-of-Way	\$75.24 / SF	1,600	\$120,000
Right-of-Way Management	5%		\$6,000
RIGHT-OF-WAY SUBTOTAL			\$126,000
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$1,911,000
Preliminary Project Development (10% of total Construction Cost)			\$179,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$268,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$268,000
Contingency (20% of total Construction Cost)			\$357,000
TOTAL PROJECT COSTS			\$2,983,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #305. Sand Canyon Ave at I-5 SB ramps
Mitigation: + Add 3rd NB & SB T lanes

Date: 6/11/2012
Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$111,000
2 Clear & Grub	\$12200 / AC	0.3	\$4,000
3 Earthwork	\$46.00 / CY	1,020	\$47,000
4 Remove Striping	\$13.00 / LF	2,480	\$32,000
5 Remove Curb & Gutter	\$36.00 / LF	1,140	\$41,000
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	10,900	\$55,000
8 Remove Pavement	\$5.00 / SF	1,140	\$6,000
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	130	\$4,000
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	1,140	\$1,000
14 Relocate Street Light	\$5,700.00 / EA	0	\$0
15 Relocate Traffic Signal System	\$225,000.00 / EA	1.00	\$225,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	8	\$6,000
17 Relocate Sign (1 post)	\$220.00 / EA	1	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	5	\$49,000
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	1	\$6,000
25 Relocate Utility Boxes	\$895.00 / EA	21	\$19,000
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	5	\$8,000
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	5	\$3,000
32 Modify Driveway	\$6,100.00 / LS	1	\$6,000
33 Construct PCC Pavement	\$7.50 / SF	250	\$2,000
34 Construct AC Pavement	\$6.00 / SF	21,000	\$126,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	31,500	\$13,000
37 Construct Striping & Marking	\$2.00 / LF	2,390	\$5,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	1,140	\$22,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	4,000	\$52,000
44 Construct PCC Sidewalk	\$9.05 / SF	10,500	\$95,000
45 Construct Wheelchair Ramp	\$5,200.00 / EA	8	\$42,000
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$70,000
54 SWPPP Plan and Implementation	6%	1	\$56,000
CONSTRUCTION SUBTOTAL			\$1,106,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$40,000
CONSTRUCTION SUBTOTAL			\$1,146,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$88,000
CONSTRUCTION SUBTOTAL			\$1,058,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$69,000
CONSTRUCTION SUBTOTAL			\$989,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$29,000
CONSTRUCTION SUBTOTAL			\$960,000
Right-of-Way	\$75.24 / SF	3,000	\$226,000
Right-of-Way Management	5%		\$11,000
RIGHT-OF-WAY SUBTOTAL			\$237,000
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$1,197,000
Preliminary Project Development (10% of total Construction Cost)			\$96,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$144,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$144,000
Contingency (20% of total Construction Cost)			\$192,000
TOTAL PROJECT COSTS			\$1,773,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: 306. Sand Canyon Ave & Oak Canyon/Laguna Canyon Rd
Mitigation: Part 1 - Add WB approach lane to provide 2 left-turn lanes
1.5 through lanes and 1.5 right-turn lanes

Date: 6/11/2012
Originally Estimated by: RBF
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	0	\$64,000
2	Clear & Grub	\$12200 / AC	0.3	\$3,000
3	Earthwork	\$46.00 / CY	0	\$0
4	Remove Striping	\$13.00 / LF	440	\$6,000
5	Remove Curb & Gutter	\$36.00 / LF	1,570	\$57,000
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00 / SF	12,560	\$63,000
8	Remove Pavement	\$5.00 / SF	0	\$0
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	22	\$29,000
13	Sawcut	\$1.25 / LF	0	\$0
14	Relocate Street Light	\$5,700.00 / EA	6	\$34,000
15	Relocate Traffic Signal System	\$225,000.00 / EA	0.50	\$113,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	1	\$0
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22	Relocate Fire Hydrant	\$5,000.00 / EA	4	\$20,000
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	1	\$6,000
25	Relocate Utility Boxes	\$895.00 / EA	7	\$6,000
26	Relocate Main Water Valve	\$12,200.00 / EA	1	\$12,000
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	2	\$3,000
29	Adjust Water Meter	\$610.00 / EA	1	\$1,000
30	Adjust Water Valve	\$610.00 / EA	16	\$10,000
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	1	\$6,000
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	8,140	\$49,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$2.00 / LF	1,172	\$2,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	1,570	\$30,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	12,560	\$114,000
45	Construct Wheelchair Ramp	\$5,200.00 / EA	2	\$10,000
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS		\$0
53	Traffic Control	8% (\$2,000 Min)		\$2,000
54	SWPPP Plan and Implementation	6%		\$0
	CONSTRUCTION SUBTOTAL			\$640,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$23,000
	CONSTRUCTION SUBTOTAL			\$663,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$51,000
	CONSTRUCTION SUBTOTAL			\$612,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$40,000
	CONSTRUCTION SUBTOTAL			\$572,000
	California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$17,000
	CONSTRUCTION SUBTOTAL			\$555,000
	Right-of-Way	\$75.24 / SF	0	\$0
	Right-of-Way Management	5%		\$0
	RIGHT-OF-WAY SUBTOTAL			\$0
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$555,000
	Preliminary Project Development (10% of total Construction Cost)			\$56,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$84,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$84,000
	Contingency (20% of total Construction Cost)			\$111,000
	TOTAL PROJECT COSTS			\$890,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #310. Sand Canyon Ave at Alton Pkwy
Mitigation: + Add 2nd NB RT lane

Date: 6/11/2012
Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$21,000
2 Clear & Grub	\$12200 / AC	0.0	\$0
3 Earthwork	\$46.00 / CY	50	\$2,000
4 Remove Striping	\$13.00 / LF	200	\$3,000
5 Remove Curb & Gutter	\$36.00 / LF	200	\$7,000
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00/ SF	1,300	\$7,000
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	2	\$3,000
13 Sawcut	\$1.25 / LF	200	\$0
14 Relocate Street Light	\$5,700.00 / EA	1	\$6,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	0.50	\$113,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	400	\$2,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$2.00 / LF	400	\$1,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	200	\$4,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	1,300	\$12,000
45 Construct Wheelchair Ramp	\$5,200.00 / EA	1	\$5,000
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$13,000
54 SWPPP Plan and Implementation	6%	1	\$11,000
CONSTRUCTION SUBTOTAL			\$210,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$8,000
CONSTRUCTION SUBTOTAL			\$218,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$17,000
CONSTRUCTION SUBTOTAL			\$201,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$13,000
CONSTRUCTION SUBTOTAL			\$188,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$5,000
CONSTRUCTION SUBTOTAL			\$183,000
Right-of-Way	\$75.24 / SF	350	\$26,000
Right-of-Way Management	5%		\$1,000
RIGHT-OF-WAY SUBTOTAL			\$27,000
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$210,000
Preliminary Project Development (10% of total Construction Cost)			\$19,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$28,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$28,000
Contingency (20% of total Construction Cost)			\$37,000
TOTAL PROJECT COSTS			\$322,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #311, Sand Canyon Ave at I-405 NB ramps

Date: 6/11/2012

Mitigation: + Improve WB approach to provide a LT lane, a RT lane,
and a free RT lane

Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$67,000
2 Clear & Grub	\$12200 / AC	0.4	\$5,000
3 Earthwork	\$46.00 / CY	2,050	\$94,000
4 Remove Striping	\$13.00 / LF	300	\$4,000
5 Remove Curb & Gutter	\$36.00 / LF	400	\$14,000
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00/ SF	2,400	\$12,000
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	350	\$11,000
11 Reconstruct Metal Beam Guard Rail	\$86.00/ LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	700	\$1,000
14 Relocate Street Light	\$5,700.00 / EA	1	\$6,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	0.33	\$74,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	4	\$3,000
17 Relocate Sign (1 post)	\$220.00 / EA	4	\$1,000
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	1	\$10,000
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	3	\$3,000
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	2	\$3,000
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	1	\$1,000
32 Relocate Drainage Inlet	\$1,830.00 / EA	1	\$2,000
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	14,000	\$84,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$2.00 / LF	700	\$1,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	400	\$8,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	185	\$6,000
42 Construct Median Concrete	\$7.9 / SF	2,500	\$20,000
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	2,400	\$22,000
45 Construct Wheelchair Ramp	\$5,200.00 / EA	3	\$16,000
46 Construct Retaining Wall	\$114 / SF	920	\$105,000
47 Construct Storm Drain Main	\$122.00 / LF	100	\$12,000
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	380	\$7,000
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$42,000
54 SWPPP Plan and Implementation	6%	1	\$34,000
CONSTRUCTION SUBTOTAL			\$668,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$24,000
CONSTRUCTION SUBTOTAL			\$692,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$53,000
CONSTRUCTION SUBTOTAL			\$639,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$42,000
CONSTRUCTION SUBTOTAL			\$597,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$17,000
CONSTRUCTION SUBTOTAL			\$580,000
Right-of-Way	\$75.24 / SF	2,550	\$192,000
Right-of-Way Management	5%		\$10,000
RIGHT-OF-WAY SUBTOTAL			\$202,000
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$782,000
Preliminary Project Development (10% of total Construction Cost)			\$58,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$87,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$87,000
Contingency (20% of total Construction Cost)			\$116,000
TOTAL PROJECT COSTS			\$1,130,000

Item differs from other cost estimate sheets

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2010 COST ESTIMATES**

Location: #321. Laguna Canyon Rd at Old Laguna Canyon Rd
Mitigation: + Add 3rd NB LT lane, 3rd NB T lane, and 3rd SB T lane

Date: 9/17/2010
Originally Estimated by: RBF
Revised by: PM

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$131,000
2	Clear & Grub	\$12200 / AC	1.0	\$12,000
3	Earthwork	\$46.00 / CY	4,000	\$184,000
4	Remove Striping	\$13.00 / LF	5,000	\$65,000
5	Remove Curb & Gutter	\$36.00 / LF	2,350	\$85,000
6	Remove Median Curb	\$37.00 / LF	1,200	\$44,000
7	Remove PCC Sidewalk	\$5.00/ SF	2,100	\$11,000
8	Remove Pavement	\$5.00 / SF	6,500	\$33,000
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	2,150	\$3,000
14	Relocate Street Light	\$5,700.00 / EA	0	\$0
15	Relocate Traffic Signal System	\$225,000.00 / EA	0.75	\$169,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	5	\$1,000
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	17	\$166,000
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	19,200	\$115,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$2.00 / LF	5,850	\$12,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	2,400	\$46,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	1,400	\$43,000
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	2,100	\$19,000
45	Construct Wheelchair Ramp	\$5,200.00 / EA	4	\$21,000
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$82,000
54	SWPPP Plan and Implementation	6%	1	\$67,000
	CONSTRUCTION SUBTOTAL			\$1,309,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$47,000
	CONSTRUCTION SUBTOTAL			\$1,356,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$104,000
	CONSTRUCTION SUBTOTAL			\$1,252,000
	Right-of-Way	\$71.66 / SF	0	\$0
	Right-of-Way Management	5%		\$0
	RIGHT-OF-WAY SUBTOTAL			\$0
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$1,252,000
	Preliminary Project Development (10% of total Construction Cost)			\$126,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$188,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$188,000
	Contingency (20% of total Construction Cost)			\$251,000
	TOTAL PROJECT COSTS			\$2,005,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #338. Alton Pkwy at Irvine Blvd (LOS E)

Date: 6/11/2012

Mitigation: + Stripe EB approach to provide 2.5 LT lanes, 2.5 T lanes
and 1 RT lane

Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$2,000
2 Clear & Grub	\$12200 / AC	0.0	\$0
3 Earthwork	\$46.00 / CY	0	\$0
4 Remove Striping	\$13.00 / LF	400	\$5,000
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	0	\$0
14 Relocate Street Light	\$5,700.00 / EA	0	\$0
15 Relocate Traffic Signal System	\$225,000.00 / EA	0.00	\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	1	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	0	\$0
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$2.00 / LF	800	\$2,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$2,000
54 SWPPP Plan and Implementation	6%	0	\$0
CONSTRUCTION SUBTOTAL			\$11,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$396
CONSTRUCTION SUBTOTAL			\$11,396
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$1,000
CONSTRUCTION SUBTOTAL			\$10,396
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$1,000
CONSTRUCTION SUBTOTAL			\$9,396
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	\$0
CONSTRUCTION SUBTOTAL			\$9,396
Right-of-Way	\$75.24 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$9,396
Preliminary Project Development (10% of total Construction Cost)			\$1,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$2,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$2,000
Contingency (20% of total Construction Cost)			\$2,000
TOTAL PROJECT COSTS			\$16,396

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #338. Alton Pkwy at Irvine Blvd (LOS D)
Mitigation: + Add 4th WB T lane and 3rd EB LT lane

Date: 6/11/2012
Originally Estimated by: RBF
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$278,000
2	Clear & Grub	\$12200 / AC	5	\$61,000
3	Earthwork	\$46.00 / CY	9,000	\$414,000
4	Remove Striping	\$13.00 / LF	6,200	\$81,000
5	Remove Curb & Gutter	\$36.00 / LF	2,900	\$104,000
6	Remove Median Curb	\$37.00 / LF	400	\$15,000
7	Remove PCC Sidewalk	\$5.00/ SF	23,300	\$117,000
8	Remove Pavement	\$5.00 / SF	3,900	\$20,000
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00/ LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	6,200	\$8,000
14	Relocate Street Light	\$5,700.00 / EA	10	\$57,000
15	Relocate Traffic Signal System	\$225,000.00 / EA	1	\$225,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	1	\$0
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	3	\$18,000
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	103,400	\$620,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$2.00 / LF	6,200	\$12,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	2,900	\$55,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	3,600	\$28,000
43	Construct Median/Parkway Landscaping	\$13.00 / SF	11,600	\$151,000
44	Construct PCC Sidewalk	\$9.05 / SF	14,500	\$131,000
45	Construct Wheelchair Ramp	\$5,200.00 / EA	4	\$21,000
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$50,000
49	Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$175,000
54	SWPPP Plan and Implementation	6%	1	\$142,000
CONSTRUCTION SUBTOTAL				\$2,783,000
CONSTRUCTION SUBTOTAL (TMSOS ALLOWANCE)				\$2,783,000
California Highway Price Index		+3.6%	CCI 2008 --> 2009	\$100,000
CONSTRUCTION SUBTOTAL				\$2,883,000
California Highway Price Index		(7.7%)	CCI 2009 --> 2010	-\$222,000
CONSTRUCTION SUBTOTAL				\$2,661,000
California Highway Price Index		(6.5%)	CCI 2010 --> 2010*	-\$173,000
CONSTRUCTION SUBTOTAL				\$2,488,000
California Highway Price Index		(2.9%)	CCI 2010* --> 2011	-\$72,000
CONSTRUCTION SUBTOTAL				\$2,416,000

Item differs from other cost estimate sheets

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #345, Alton Pkwy at I-5 NB ramps

Date: 6/11/2012

Mitigation: + Restripe WB approach to provide 2.5 LT lanes and 0.5 RT lanes

Originally Estimated by: RBF

Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$2,000
2 Clear & Grub	\$12200 / AC	0.0	\$0
3 Earthwork	\$46.00 / CY	0	\$0
4 Remove Striping	\$13.00 / LF	350	\$5,000
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	0	\$0
14 Relocate Street Light	\$5,700.00 / EA	0	\$0
15 Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	0	\$0
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	16,800	\$7,000
37 Construct Striping & Marking	\$2.00 / LF	350	\$1,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$2,000
54 SWPPP Plan and Implementation	6%	0	\$0
CONSTRUCTION SUBTOTAL			\$17,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$1,000
CONSTRUCTION SUBTOTAL			\$18,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$1,000
CONSTRUCTION SUBTOTAL			\$17,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$1,000
CONSTRUCTION SUBTOTAL			\$16,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	\$0
CONSTRUCTION SUBTOTAL			\$16,000
Right-of-Way	\$75.24 / SF	0	\$0
Right-of-Way Management	5%		\$0
2008 RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$16,000
Preliminary Project Development (10% of total Construction Cost)			\$2,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$3,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$3,000
Contingency (20% of total Construction Cost)			\$4,000
TOTAL PROJECT COSTS			\$28,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #362. Bake Pkwy at Irvine Blvd (Alt2)

Date: 6/11/2012

Mitigation: + Convert WB RT lane to shared 4th T/RT lane. Add 2nd NB LT lanes
+ Restripe EB to provide 2 LT lanes, 2.5 T lanes and 1.5 RT lanes

Originally Estimated by: RBF, PBS&J
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$160,000
2 Clear & Grub	\$12200 / AC	0.2	\$2,000
3 Earthwork	\$46.00 / CY	4,000	\$184,000
4 Remove Striping	\$13.00 / LF	1,600	\$21,000
5 Remove Curb & Gutter	\$36.00 / LF	750	\$27,000
6 Remove Median Curb	\$37.00 / LF	500	\$19,000
7 Remove PCC Sidewalk	\$5.00 / SF	11,500	\$58,000
8 Remove Pavement	\$5.00 / SF	7,000	\$35,000
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	35	\$46,000
13 Sawcut	\$1.25 / LF	2,000	\$3,000
14 Relocate Street Light	\$5,700.00 / EA	5	\$29,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	1.00	\$225,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	9	\$2,000
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	5	\$125,000
21 Relocate Catch Basin	\$9,760.00 / EA	2	\$20,000
22 Relocate Fire Hydrant	\$5,000.00 / EA	2	\$10,000
23 Relocate Bus Bench	\$1,458.00 / EA	1	\$1,000
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	48	\$43,000
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	3	\$30,000
28 Adjust Manhole to Grade	\$1,500.00 / EA	5	\$8,000
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	12	\$7,000
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	10	\$6,000
32 Modify Driveway	\$6,100.00 / LS	1	\$6,000
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	10,800	\$65,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$2.00 / LF	1,600	\$3,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	800	\$15,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	550	\$17,000
42 Construct Median Concrete	\$7.9 / SF	1,100	\$9,000
43 Construct Median/Parkway Landscaping	\$13.00 / SF	400	\$5,000
44 Construct PCC Sidewalk	\$9.05 / SF	12,900	\$117,000
45 Construct Wheelchair Ramp	\$5,200.00 / EA	4	\$21,000
46 Construct Retaining Wall	\$114 / SF	840	\$96,000
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$100,000
54 SWPPP Plan and Implementation	6%	1	\$81,000
CONSTRUCTION SUBTOTAL			\$1,596,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$57,000
CONSTRUCTION SUBTOTAL			\$1,653,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$127,000
CONSTRUCTION SUBTOTAL			\$1,526,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$99,000
CONSTRUCTION SUBTOTAL			\$1,427,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$41,000
CONSTRUCTION SUBTOTAL			\$1,386,000
Right-of-Way	\$75.24 / SF	8,100	\$609,000
Right-of-Way Management	5%		\$30,000
RIGHT-OF-WAY SUBTOTAL			\$639,000
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$2,025,000
Preliminary Project Development (10% of total Construction Cost)			\$139,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$208,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$208,000
Contingency (20% of total Construction Cost)			\$278,000
TOTAL PROJECT COSTS			\$2,858,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #362. Bake Pkwy at Irvine Blvd

Date: 6/11/2012

Mitigation: + Convert WB RT lane to shared 4th T/RT lane. Add 2nd NB LT lane
+ Restripe EB to provide 2 LT lanes, 2.5 T lanes and 1.5 RT lanes
+ Add 4th SB T lane and convert SB RT lane to free RT lane

Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$348,000
2 Clear & Grub	\$12200 / AC	0.2	\$2,000
3 Earthwork	\$46.00 / CY	9,700	\$446,000
4 Remove Striping	\$13.00 / LF	1,900	\$25,000
5 Remove Curb & Gutter	\$36.00 / LF	2,800	\$101,000
6 Remove Median Curb	\$37.00 / LF	850	\$31,000
7 Remove PCC Sidewalk	\$5.00/ SF	22,400	\$112,000
8 Remove Pavement	\$5.00 / SF	40,000	\$200,000
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	35	\$46,000
13 Sawcut	\$1.25 / LF	2,350	\$3,000
14 Relocate Street Light	\$5,700.00 / EA	5	\$29,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	1.00	\$225,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	9	\$2,000
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	5	\$125,000
21 Relocate Catch Basin	\$9,760.00 / EA	2	\$20,000
22 Relocate Fire Hydrant	\$5,000.00 / EA	2	\$10,000
23 Relocate Bus Bench	\$1,458.00/ EA	1	\$1,000
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	48	\$43,000
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	3	\$30,000
28 Adjust Manhole to Grade	\$1,500.00 / EA	5	\$8,000
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	12	\$7,000
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	10	\$6,000
32 Modify Driveway	\$6,100.00 / LS	1	\$6,000
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	67,700	\$406,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$2.00 / LF	6,000	\$12,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	2,800	\$53,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	1,100	\$34,000
42 Construct Median Concrete	\$7.9 / SF	3,900	\$31,000
43 Construct Median/Parkway Landscaping	\$13.00 / SF	400	\$5,000
44 Construct PCC Sidewalk	\$9.05 / SF	22,400	\$203,000
45 Construct Wheelchair Ramp	\$5,200.00 / EA	5	\$26,000
46 Construct Retaining Wall	\$114 / SF	4,300	\$490,000
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$219,000
54 SWPPP Plan and Implementation	6%	1	\$177,000
CONSTRUCTION SUBTOTAL			\$3,482,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$125,000
CONSTRUCTION SUBTOTAL			\$3,607,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$278,000
CONSTRUCTION SUBTOTAL			\$3,329,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$216,000
CONSTRUCTION SUBTOTAL			\$3,113,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$90,000
CONSTRUCTION SUBTOTAL			\$3,023,000
Right-of-Way	\$75.24 / SF	25,000	\$1,881,000
Right-of-Way Management	5%		\$94,000
RIGHT-OF-WAY SUBTOTAL			\$1,975,000
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$4,998,000
Preliminary Project Development (10% of total Construction Cost)			\$303,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$454,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$454,000
Contingency (20% of total Construction Cost)			\$605,000
TOTAL PROJECT COSTS			\$6,814,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #364, Bake Pkwy at Jeronimo Dr

Date: 6/11/2012

Mitigation: + Add 2nd NB LT lane, Convert SB defacto RT lane to 4th T lane
+ Add 3rd WB T lane

Originally Estimated by: RBF, PBS&J
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$235,000
2 Clear & Grub	\$12200 / AC	0.4	\$5,000
3 Earthwork	\$46.00 / CY	2,910	\$134,000
4 Remove Striping	\$13.00 / LF	2,400	\$31,000
5 Remove Curb & Gutter	\$36.00 / LF	3,590	\$129,000
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00/ SF	17,950	\$90,000
8 Remove Pavement	\$5.00 / SF	3,590	\$18,000
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	68	\$88,000
13 Sawcut	\$1.25 / LF	3,590	\$4,000
14 Relocate Street Light	\$5,700.00 / EA	7	\$40,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	1.00	\$225,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	6	\$1,000
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	7	\$175,000
21 Relocate Catch Basin	\$9,760.00 / EA	2	\$20,000
22 Relocate Fire Hydrant	\$5,000.00 / EA	1	\$5,000
23 Relocate Bus Bench	\$1,458.00/ EA	1	\$1,000
24 Relocate Monument Wall	\$6,100.00 / EA	1	\$6,000
25 Relocate Utility Boxes	\$895.00 / EA	29	\$26,000
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	1	\$10,000
28 Adjust Manhole to Grade	\$1,500.00 / EA	3	\$5,000
29 Adjust Water Meter	\$610.00 / EA	1	\$1,000
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	8	\$5,000
32 Modify Driveway	\$6,100.00 / LS	3	\$18,000
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	20,010	\$120,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	89,100	\$36,000
37 Construct Striping & Marking	\$2.00 / LF	2,400	\$5,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	3,590	\$68,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	16,650	\$216,000
44 Construct PCC Sidewalk	\$9.05 / SF	17,950	\$162,000
45 Construct Wheelchair Ramp	\$5,200.00 / EA	4	\$21,000
46 Construct Retaining Wall	\$114 / SF	1,600	\$182,000
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Relocate Mail Box	\$500.00 / SF	1	\$1,000
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$148,000
54 SWPPP Plan and Implementation	6%	1	\$120,000
CONSTRUCTION SUBTOTAL			\$2,351,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$85,000
CONSTRUCTION SUBTOTAL			\$2,436,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$188,000
CONSTRUCTION SUBTOTAL			\$2,248,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$146,000
CONSTRUCTION SUBTOTAL			\$2,102,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$61,000
CONSTRUCTION SUBTOTAL			\$2,041,000
Right-of-Way	\$75.24 / SF	16,650	\$1,253,000
Right-of-Way Management	5%		\$63,000
RIGHT-OF-WAY SUBTOTAL			\$1,316,000
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$3,357,000
Preliminary Project Development (10% of total Construction Cost)			\$205,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$307,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$307,000
Contingency (20% of total Construction Cost)			\$409,000
TOTAL PROJECT COSTS			\$4,585,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #368, Bake Pkwy at I-5 SB ramps
Mitigation: + Add 4th NB T lane

Date: 6/11/2012
Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$157,000
2 Clear & Grub	\$12200 / AC	0.2	\$2,000
3 Earthwork	\$46.00 / CY	3,820	\$176,000
4 Remove Striping	\$13.00 / LF	8,750	\$114,000
5 Remove Curb & Gutter	\$36.00 / LF	1,380	\$50,000
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	6,490	\$32,000
8 Remove Pavement	\$5.00 / SF	800	\$4,000
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	30	\$1,000
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	110	\$9,000
12 Remove & Relocate Tree	\$1,300.00 / EA	11	\$14,000
13 Sawcut	\$1.25 / LF	1,420	\$2,000
14 Relocate Street Light	\$5,700.00 / EA	3	\$17,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	0.50	\$113,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	1	\$1,000
17 Relocate Sign (1 post)	\$220.00 / EA	12	\$3,000
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	1	\$10,000
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	15	\$13,000
26 Relocate Main Water Valve	\$12,200.00 / EA	1	\$12,000
27 Relocate Utility Vault	\$10,000 / EA	4	\$40,000
28 Adjust Manhole to Grade	\$1,500.00 / EA	2	\$3,000
29 Adjust Water Meter	\$610.00 / EA	1	\$1,000
30 Adjust Water Valve	\$610.00 / EA	7	\$4,000
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	4	\$2,000
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	800	\$6,000
34 Construct AC Pavement	\$6.00 / SF	7,380	\$44,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$2.00 / LF	9,720	\$19,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	1,420	\$27,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	6,690	\$61,000
45 Construct Wheelchair Ramp	\$5,200.00 / EA	2	\$10,000
46 Construct Retaining Wall	\$114 / SF	3,820	\$435,000
46.1 Remove Retaining Wall	\$74.00 / SF	180	\$13,000
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$99,000
54 SWPPP Plan and Implementation	6%	1	\$80,000
CONSTRUCTION SUBTOTAL			\$1,574,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$57,000
CONSTRUCTION SUBTOTAL			\$1,631,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$126,000
CONSTRUCTION SUBTOTAL			\$1,505,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$98,000
CONSTRUCTION SUBTOTAL			\$1,407,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$41,000
CONSTRUCTION SUBTOTAL			\$1,366,000
Right-of-Way	\$75.24 / SF	6,660	\$501,000
Right-of-Way Management	5%		\$25,000
RIGHT-OF-WAY SUBTOTAL			\$526,000
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$1,892,000
Preliminary Project Development (10% of total Construction Cost)			\$137,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$205,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$205,000
Contingency (20% of total Construction Cost)			\$274,000
TOTAL PROJECT COSTS			\$2,713,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #379. Lake Forest Dr to Muirlands Blvd
Mitigation: + Convert NB RT lane to 4th T lane
(Remove 2 Type IV(R) arrows (26sf))

Date: 6/11/2012
Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$2,000
2 Clear & Grub	\$12200 / AC	0.0	\$0
3 Earthwork	\$46.00 / CY	0	\$0
4 Remove Striping	\$13.00 / LF	300	\$4,000
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Bean Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	0	\$0
14 Relocate Street Light	\$5,700.00 / EA	0	\$0
15 Relocate Traffic Signal System	\$225,000.00 / EA	0.00	\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	0	\$0
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$2.00 / LF	300	\$1,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$2,000
54 SWPPP Plan and Implementation	6%	0	\$0
CONSTRUCTION SUBTOTAL			\$9,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$324
CONSTRUCTION SUBTOTAL			\$9,324
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$1,000
CONSTRUCTION SUBTOTAL			\$8,324
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$1,000
CONSTRUCTION SUBTOTAL			\$7,324
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	\$0
CONSTRUCTION SUBTOTAL			\$7,324
Right-of-Way	\$75.24 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$7,324
Preliminary Project Development (10% of total Construction Cost)			\$1,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$2,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$2,000
Contingency (20% of total Construction Cost)			\$2,000
TOTAL PROJECT COSTS			\$14,324

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #383, Lake Forest Dr at Avenida De La Carlota/I-5 SB ramps

Date: 6/11/2012

Mitigation: + Restripe EB approach to provide 3 LT lanes, 0.5 T lanes, and 1.5 RT lanes
+ Add 2nd WB LT lane, provide WB RT overlap with SB LT

Originally Estimated by: RBF, PBS&J

Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$48,000
2 Clear & Grub	\$12200 / AC	0.1	\$1,000
3 Earthwork	\$46.00 / CY	160	\$7,000
4 Remove Striping	\$13.00 / LF	500	\$7,000
5 Remove Curb & Gutter	\$36.00 / LF	200	\$7,000
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00/ SF	1,400	\$7,000
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00/ LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	200	\$0
14 Relocate Street Light	\$5,700.00 / EA	2	\$11,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	0.25	\$56,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	3	\$1,000
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	2	\$10,000
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	6	\$5,000
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	1	\$10,000
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	3	\$2,000
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	2	\$1,000
32 Modify Driveway	\$6,100.00 / LS	1	\$6,000
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	3,220	\$19,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	15,000	\$6,000
37 Construct Striping & Marking	\$2.00 / LF	700	\$1,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	200	\$4,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	1,400	\$13,000
45 Construct Wheelchair Ramp	\$5,200.00 / EA	1	\$5,000
46 Construct Retaining Wall	\$114 / SF	760	\$87,000
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	2	\$1,000
49 Construct Concrete V-Ditch	\$19.00 / LF	2	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	1	\$113,000
53 Traffic Control	8% (\$2,000 Min)	1	\$30,000
54 SWPPP Plan and Implementation	6%	1	\$25,000
CONSTRUCTION SUBTOTAL			\$483,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$17,000
CONSTRUCTION SUBTOTAL			\$500,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$39,000
CONSTRUCTION SUBTOTAL			\$461,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$30,000
CONSTRUCTION SUBTOTAL			\$431,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$12,000
CONSTRUCTION SUBTOTAL			\$419,000
Right-of-Way	\$75.24 / SF	2,300	\$173,000
Right-of-Way Management	5%		\$9,000
RIGHT-OF-WAY SUBTOTAL			\$182,000
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$601,000
Preliminary Project Development (10% of total Construction Cost)			\$42,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$63,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$63,000
Contingency (20% of total Construction Cost)			\$84,000
TMSOS Allowance			\$272,000
TOTAL PROJECT COSTS			\$1,125,000

Item differs from other cost estimate sheets

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010 COST ESTIMATES**

Location: #406. Laguna Canyon Rd at Lake Forest Drive (Future)
Mitigation: + Add 3rd SB LT lane

Date: 9/16/2010
Originally Estimated by: RBF
Revised by: PM

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$206,000
2	Clear & Grub	\$12200 / AC	2.2	\$27,000
3	Earthwork	\$46.00 / CY	27,300	\$1,256,000
4	Remove Striping	\$13.00 / LF	1,250	\$16,000
5	Remove Curb & Gutter	\$36.00 / LF	900	\$32,000
6	Remove Median Curb	\$37.00 / LF	500	\$19,000
7	Remove PCC Sidewalk	\$5.00/ SF	8,100	\$41,000
8	Remove Pavement	\$5.00 / SF	0	\$0
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	1,400	\$2,000
14	Relocate Street Light	\$5,700.00 / EA	0	\$0
15	Relocate Traffic Signal System	\$225,000.00 / EA	0.00	\$0
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	9,440	\$57,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$2.00 / LF	1,550	\$3,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	900	\$17,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	500	\$16,000
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	5,400	\$70,000
44	Construct PCC Sidewalk	\$9.05 / SF	7,200	\$65,000
45	Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$130,000
54	SWPPP Plan and Implementation	6%	1	\$105,000
	CONSTRUCTION SUBTOTAL			\$2,062,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$74,000
	CONSTRUCTION SUBTOTAL			\$2,136,000
	California Highway Price Index			
	CONSTRUCTION SUBTOTAL		2010 Actual Cost ¹	\$155,366
	Right-of-Way	\$35.18 / SF	5,800	\$204,044
	Right-of-Way Management	5%		\$10,202
	RIGHT-OF-WAY SUBTOTAL			\$214,246
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$369,612
	Preliminary Project Development (10% of total Construction Cost)			
	Design Engineering/Administration Costs (15% of total Construction Cost)			
	Construction Engineering Costs/Administration (15% of total Construction Cost)			
	Contingency (20% of total Construction Cost)			
	TOTAL PROJECT COSTS (ACTUAL COST¹)			\$369,612

1 = Per Fee Credit Memo (Revised 08/09/2010)

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #407. Laguna Canyon Rd at Bake Pkwy
Mitigation: + Add 3rd NB T lane

Date: 6/11/2012
Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$77,000
2 Clear & Grub	\$12200 / AC	1	\$12,000
3 Earthwork	\$46.00 / CY	3,500	\$161,000
4 Remove Striping	\$13.00 / LF	1,700	\$22,000
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8 Remove Pavement	\$5.00 / SF	4,000	\$20,000
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	1,700	\$2,000
14 Relocate Street Light	\$5,700.00 / EA	0	\$0
15 Relocate Traffic Signal System	\$225,000.00 / EA	0.50	\$113,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	20,400	\$122,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$2.00 / LF	1,700	\$3,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	300	\$9,000
42 Construct Median Concrete	\$7.9 / SF	1,700	\$13,000
43 Construct Median/Parkway Landscaping	\$13.00 / SF	5,400	\$70,000
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Drainage Allowance	10% / LS	1	\$55,000
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$48,000
54 SWPPP Plan and Implementation	6%	1	\$39,000
CONSTRUCTION SUBTOTAL			\$766,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$28,000
CONSTRUCTION SUBTOTAL			\$794,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$61,000
CONSTRUCTION SUBTOTAL			\$733,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$48,000
CONSTRUCTION SUBTOTAL			\$685,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$20,000
CONSTRUCTION SUBTOTAL			\$665,000
Right-of-Way	\$36.95 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$665,000
Preliminary Project Development (10% of total Construction Cost)			\$67,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$100,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$100,000
Contingency (20% of total Construction Cost)			\$133,000
TOTAL PROJECT COSTS			\$1,065,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #228. Culver Dr at Barranca Pkwy

Date: 6/11/2012

Mitigation: + Convert WB defacto RT lane to 3rd T lane

Originally Estimated by: RBF

Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$43,000
2 Clear & Grub	\$12200 / AC	0.2	\$2,000
3 Earthwork	\$46.00 / CY	780	\$36,000
4 Remove Striping	\$13.00 / LF	800	\$10,000
5 Remove Curb & Gutter	\$36.00 / LF	600	\$22,000
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	3,000	\$15,000
8 Remove Pavement	\$5.00 / SF	600	\$3,000
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Bean Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	15	\$20,000
13 Sawcut	\$1.25 / LF	600	\$1,000
14 Relocate Street Light	\$5,700.00 / EA	0	\$0
15 Relocate Traffic Signal System	\$225,000.00 / EA	0.50	\$113,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	1	\$10,000
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	1	\$1,000
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	1	\$2,000
29 Adjust Water Meter	\$610.00 / EA	7	\$4,000
30 Adjust Water Valve	\$610.00 / EA	2	\$1,000
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	6,270	\$38,000
35 Construct AC Overlay	\$2.50 / SF	1,200	\$3,000
36 Construct Slurry Seal	\$0.4 / SF	18,400	\$7,000
37 Construct Striping & Marking	\$2.00 / LF	1,000	\$2,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	500	\$10,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	70	\$2,000
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	3000	\$27,000
45 Construct Wheelchair Ramp	\$5,200.00 / EA	2	\$10,000
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$27,000
54 SWPPP Plan and Implementation	6%	1	\$22,000
CONSTRUCTION SUBTOTAL			\$431,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$16,000
CONSTRUCTION SUBTOTAL			\$447,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$34,000
CONSTRUCTION SUBTOTAL			\$413,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$27,000
CONSTRUCTION SUBTOTAL			\$386,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$11,000
CONSTRUCTION SUBTOTAL			\$375,000
Right-of-Way	\$36.95 / SF	3,270	\$121,000
Right-of-Way Management	5%		\$6,000
RIGHT-OF-WAY SUBTOTAL			\$127,000
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$502,000
Preliminary Project Development (10% of total Construction Cost)			\$38,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$57,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$57,000
Contingency (20% of total Construction Cost)			\$75,000
TOTAL PROJECT COSTS			\$729,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #290. Jeffrey Rd at Barranca Pkwy
Mitigation: + Add NB & SB defacto RT lanes

Date: 6/11/2012
Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$32,000
2 Clear & Grub	\$12200 / AC	0.04	\$1,000
3 Earthwork	\$46.00 / CY	250	\$12,000
4 Remove Striping	\$13.00 / LF	0	\$0
5 Remove Curb & Gutter	\$36.00 / LF	950	\$34,000
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	1625	\$8,000
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	15	\$20,000
13 Sawcut	\$1.25 / LF	900	\$1,000
14 Relocate Street Light	\$5,700.00 / EA	1	\$6,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	0.50	\$113,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	4	\$4,000
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	1	\$10,000
28 Adjust Manhole to Grade	\$1,500.00 / EA	1	\$2,000
29 Adjust Water Meter	\$610.00 / EA	3	\$2,000
30 Adjust Water Valve	\$610.00 / EA	1	\$1,000
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	3	\$2,000
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	1,660	\$10,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$2.00 / LF	0	\$0
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	950	\$18,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	2	\$10,000
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$20,000
54 SWPPP Plan and Implementation	6%	1	\$16,000
CONSTRUCTION SUBTOTAL			\$322,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$12,000
CONSTRUCTION SUBTOTAL			\$334,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$26,000
CONSTRUCTION SUBTOTAL			\$308,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$20,000
CONSTRUCTION SUBTOTAL			\$288,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$8,000
CONSTRUCTION SUBTOTAL			\$280,000
Right-of-Way	\$75.24 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$280,000
Preliminary Project Development (10% of total Construction Cost)			\$28,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$42,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$42,000
Contingency (20% of total Construction Cost)			\$56,000
TOTAL PROJECT COSTS			\$448,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #293. Jeffrey Rd at I-405 NB ramps
Mitigation: + Add 3rd WB LT lane

Date: 6/11/2012
Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$61,000
2 Clear & Grub	\$12200 / AC	0.3	\$4,000
3 Earthwork	\$46.00 / CY	1,510	\$69,000
4 Remove Striping	\$13.00 / LF	440	\$6,000
5 Remove Curb & Gutter	\$36.00 / LF	200	\$7,000
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	930	\$5,000
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	500	\$1,000
14 Relocate Street Light	\$5,700.00 / EA	0	\$0
15 Relocate Traffic Signal System	\$225,000.00 / EA	0.50	\$113,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	2	\$1,000
17 Relocate Sign (1 post)	\$220.00 / EA	4	\$1,000
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	5,350	\$32,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$2.00 / LF	880	\$2,000
38 Construct AC Dike	\$4.00 / LF	300	\$1,000
39 Construct Curb & Gutter	\$19.00 / LF	200	\$4,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	910	\$8,000
45 Construct Wheelchair Ramp	\$5,200.00 / EA	1	\$5,000
46 Construct Retaining Wall	\$114 / SF	1,600	\$182,000
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$36,600.00 / LS	1	\$37,000
49 Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$38,000
54 SWPPP Plan and Implementation	6%	1	\$31,000
CONSTRUCTION SUBTOTAL			\$608,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$22,000
CONSTRUCTION SUBTOTAL			\$630,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$49,000
CONSTRUCTION SUBTOTAL			\$581,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$38,000
CONSTRUCTION SUBTOTAL			\$543,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$16,000
CONSTRUCTION SUBTOTAL			\$527,000
Right-of-Way	\$75.24 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$527,000
Preliminary Project Development (10% of total Construction Cost)			\$53,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$80,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$80,000
Contingency (20% of total Construction Cost)			\$106,000
TOTAL PROJECT COSTS			\$846,000

Item differ from other cost estimate sheets

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #327. Barranca Pkwy at Technology Dr

Date: 6/11/2012

Mitigation: + Add 2nd SB LT lane and restripe EB approach to provide 1 LT lane,
1.5 T lanes and 1.5 RT lanes

Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$41,000
2 Clear & Grub	\$12200 / AC	0.1	\$1,000
3 Earthwork	\$46.00 / CY	450	\$21,000
4 Remove Striping	\$13.00 / LF	1,350	\$18,000
5 Remove Curb & Gutter	\$36.00 / LF	400	\$14,000
6 Remove Median Curb	\$37.00 / LF	360	\$13,000
7 Remove PCC Sidewalk	\$5.00 / SF	2,200	\$11,000
8 Remove Pavement	\$5.00 / SF	370	\$2,000
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	13	\$17,000
13 Sawcut	\$1.25 / LF	730	\$1,000
14 Relocate Street Light	\$5,700.00 / EA	1	\$6,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	0.25	\$56,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	1	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	1	\$10,000
22 Relocate Fire Hydrant	\$5,000.00 / EA	1	\$5,000
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	2	\$2,000
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	4	\$2,000
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	2	\$1,000
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	6,700	\$40,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	13,400	\$5,000
37 Construct Striping & Marking	\$2.00 / LF	1,610	\$3,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	400	\$8,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	360	\$11,000
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	4,000	\$52,000
44 Construct PCC Sidewalk	\$9.05 / SF	2,400	\$22,000
45 Construct Wheelchair Ramp	\$5,200.00 / EA	1	\$5,000
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$26,000
54 SWPPP Plan and Implementation	6%	1	\$21,000
CONSTRUCTION SUBTOTAL			\$414,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$15,000
CONSTRUCTION SUBTOTAL			\$429,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$33,000
CONSTRUCTION SUBTOTAL			\$396,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$26,000
CONSTRUCTION SUBTOTAL			\$370,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$11,000
CONSTRUCTION SUBTOTAL			\$359,000
Right-of-Way	\$75.24 / SF	1,800	\$135,000
Right-of-Way Management			\$0
RIGHT-OF-WAY SUBTOTAL			\$135,000
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$494,000
Preliminary Project Development (10% of total Construction Cost)			\$36,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$54,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$54,000
Contingency (20% of total Construction Cost)			\$72,000
TOTAL PROJECT COSTS			\$710,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #344, Alton Pkwy at Technology Dr

Date: 6/11/2012

Mitigation: + Restripe WB approach to provide 2.5 LT lanes, 1.5 T lanes, and no RT lane Originally Estimated by: RBF
+ Restripe EB approach to provide 1.5 LT lanes, 1.5 T lanes, and 2 RT lane Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$2,000
2 Clear & Grub	\$12200 / AC	0.0	\$0
3 Earthwork	\$46.00 / CY	0	\$0
4 Remove Striping	\$13.00 / LF	400	\$5,000
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	0	\$0
14 Relocate Street Light	\$5,700.00 / EA	0	\$0
15 Relocate Traffic Signal System	\$225,000.00 / EA	0.00	\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	0	\$0
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$2.00 / LF	400	\$1,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$2,000
54 SWPPP Plan and Implementation	6%	0	\$0
CONSTRUCTION SUBTOTAL			\$10,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$360
CONSTRUCTION SUBTOTAL			\$10,360
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$1,000
CONSTRUCTION SUBTOTAL			\$9,360
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$1,000
CONSTRUCTION SUBTOTAL			\$8,360
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	\$0
CONSTRUCTION SUBTOTAL			\$8,360
Right-of-Way	\$75.24 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$8,360
Preliminary Project Development (10% of total Construction Cost)			\$1,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$2,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$2,000
Contingency (20% of total Construction Cost)			\$2,000
TOTAL PROJECT COSTS			\$15,360

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #348. Alton Pkwy at Irvine Center Drive (Alt.1)

Date: 6/11/2012

Mitigation: Convert NB RT lane to free RT lane. Add 4th NB T lane
Restripe WB approach to provide 2 LT lane, 2.5 T lanes and 1.5 RT lanes

Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$121,000
2 Clear & Grub	\$12200 / AC	0.9	\$11,000
3 Earthwork	\$46.00 / CY	4,500	\$207,000
4 Remove Striping	\$13.00 / LF	1,400	\$18,000
5 Remove Curb & Gutter	\$36.00 / LF	1,250	\$45,000
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	5,400	\$27,000
8 Remove Pavement	\$5.00 / SF	300	\$2,000
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	30	\$39,000
13 Sawcut	\$1.25 / LF	1,250	\$2,000
14 Relocate Street Light	\$5,700.00 / EA	3	\$17,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	0.75	\$169,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	4	\$1,000
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	3	\$29,000
22 Relocate Fire Hydrant	\$5,000.00 / EA	5	\$25,000
23 Relocate Bus Bench	\$1,458.00/ EA	2	\$3,000
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	5	\$4,000
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	5	\$50,000
28 Adjust Manhole to Grade	\$1,500.00 / EA	5	\$8,000
29 Adjust Water Meter	\$610.00 / EA	1	\$1,000
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	3	\$2,000
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	14,500	\$87,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$2.00 / LF	1,400	\$3,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	1,250	\$24,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	200	\$6,000
42 Construct Median Concrete	\$7.9 / SF	1,500	\$12,000
43 Construct Median/Parkway Landscaping	\$13.00 / SF	6,250	\$81,000
44 Construct PCC Sidewalk	\$9.05 / SF	5,400	\$49,000
45 Construct Wheelchair Ramp	\$5,200.00 / EA	5	\$26,000
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$76,000
54 SWPPP Plan and Implementation	6%	1	\$61,000
CONSTRUCTION SUBTOTAL			\$1,206,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$43,000
CONSTRUCTION SUBTOTAL			\$1,249,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$96,000
CONSTRUCTION SUBTOTAL			\$1,153,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$75,000
CONSTRUCTION SUBTOTAL			\$1,078,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$31,000
CONSTRUCTION SUBTOTAL			\$1,047,000
Right-of-Way (2007)	\$75.24 / SF	9,700	\$730,000
Right-of-Way Management	5%		\$37,000
2007 RIGHT-OF-WAY SUBTOTAL			\$767,000
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$1,814,000
Preliminary Project Development (10% of total Construction Cost)			\$105,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$158,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$158,000
Contingency (20% of total Construction Cost)			\$210,000
TOTAL PROJECT COSTS			\$2,445,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #358. Irvine Center Dr at Enterprise Dr
Mitigation: + Add 3rd NB T lane

Date: 6/11/2012
Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$2,000
2 Clear & Grub	\$12200 / AC	0.0	\$0
3 Earthwork	\$46.00 / CY	0	\$0
4 Remove Striping	\$13.00 / LF	500	\$7,000
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	0	\$0
14 Relocate Street Light	\$5,700.00 / EA	0	\$0
15 Relocate Traffic Signal System	\$225,000.00 / EA	0.00	\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	0	\$0
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	19,500	\$8,000
37 Construct Striping & Marking	\$2.00 / LF	500	\$1,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$2,000
54 SWPPP Plan and Implementation	6%	0	\$0
CONSTRUCTION SUBTOTAL			\$20,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$1,000
CONSTRUCTION SUBTOTAL			\$21,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$2,000
CONSTRUCTION SUBTOTAL			\$19,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$1,000
CONSTRUCTION SUBTOTAL			\$18,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$1,000
CONSTRUCTION SUBTOTAL			\$17,000
Right-of-Way	\$75.24 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$17,000
Preliminary Project Development (10% of total Construction Cost)			\$2,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$3,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$3,000
Contingency (20% of total Construction Cost)			\$4,000
TOTAL PROJECT COSTS			\$29,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #359, Irvine Center Dr at I-405 SB Ramps
Mitigation: + Add 3rd SB T lane and 3rd EB LT lane

Date: 6/11/2012
Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$58,000
2 Clear & Grub	\$12200 / AC	0.1	\$1,000
3 Earthwork	\$46.00 / CY	600	\$28,000
4 Remove Striping	\$13.00 / LF	2,500	\$33,000
5 Remove Curb & Gutter	\$36.00 / LF	600	\$22,000
6 Remove Median Curb	\$37.00 / LF	150	\$6,000
7 Remove PCC Sidewalk	\$5.00/ SF	600	\$3,000
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00/ LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	600	\$1,000
14 Relocate Street Light	\$5,700.00 / EA	1	\$6,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	1.00	\$225,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	5	\$50,000
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	3,600	\$22,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	25,000	\$10,000
37 Construct Striping & Marking	\$2.00 / LF	2,850	\$6,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	600	\$11,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	100	\$3,000
42 Construct Median Concrete	\$7.9 / SF	650	\$5,000
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	500	\$5,000
45 Construct Wheelchair Ramp	\$5,200.00 / EA	4	\$21,000
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$37,000
54 SWPPP Plan and Implementation	6%	1	\$30,000
CONSTRUCTION SUBTOTAL			\$583,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$21,000
CONSTRUCTION SUBTOTAL			\$604,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$47,000
CONSTRUCTION SUBTOTAL			\$557,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$36,000
CONSTRUCTION SUBTOTAL			\$521,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$15,000
CONSTRUCTION SUBTOTAL			\$506,000
Right-of-Way (2007)	\$75.24 / SF	0	\$0
Right-of-Way Management	5%		\$0
2007 RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$506,000
Preliminary Project Development (10% of total Construction Cost)			\$51,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$76,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$76,000
Contingency (20% of total Construction Cost)			\$102,000
TOTAL PROJECT COSTS			\$811,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #378. Lake Forest Dr at Jeronimo Rd

Date: 6/11/2012

Mitigation: + Add 2nd SB LT lane and separate EB & WB RT lanes

Originally Estimated by: RBF

Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$121,000
2	Clear & Grub	\$12200 / AC	0.2	\$2,000
3	Earthwork	\$46.00 / CY	1,080	\$50,000
4	Remove Striping	\$13.00 / LF	1,900	\$25,000
5	Remove Curb & Gutter	\$36.00 / LF	1,420	\$51,000
6	Remove Median Curb	\$37.00 / LF	560	\$21,000
7	Remove PCC Sidewalk	\$5.00 / SF	11,360	\$57,000
8	Remove Pavement	\$5.00 / SF	1,380	\$7,000
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	21	\$27,000
13	Sawcut	\$1.25 / LF	1,420	\$2,000
14	Relocate Street Light	\$5,700.00 / EA	1	\$6,000
15	Relocate Traffic Signal System	\$225,000.00 / EA	1.00	\$225,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	1	\$10,000
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	2	\$2,000
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	1	\$2,000
29	Adjust Water Meter	\$610.00 / EA	5	\$3,000
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	3	\$2,000
32	Modify Driveway	\$6,100.00 / LS	1	\$6,000
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	11,710	\$70,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	69,760	\$28,000
37	Construct Striping & Marking	\$2.00 / LF	1,900	\$4,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	1,420	\$27,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	560	\$17,000
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	1,680	\$22,000
44	Construct PCC Sidewalk	\$9.05 / SF	10,900	\$99,000
45	Construct Wheelchair Ramp	\$5,200.00 / EA	4	\$21,000
46	Construct Retaining Wall	\$114 / SF	1,480	\$169,000
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$76,000
54	SWPPP Plan and Implementation	6%	1	\$62,000
	CONSTRUCTION SUBTOTAL			\$1,214,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$44,000
	CONSTRUCTION SUBTOTAL			\$1,258,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$97,000
	CONSTRUCTION SUBTOTAL			\$1,161,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$75,000
	CONSTRUCTION SUBTOTAL			\$1,086,000
	California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$31,000
	CONSTRUCTION SUBTOTAL			\$1,055,000
	Right-of-Way	\$75.24 / SF	7,850	\$591,000
	Right-of-Way Management	5%		\$30,000
	RIGHT-OF-WAY SUBTOTAL			\$621,000
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$1,676,000
	Preliminary Project Development (10% of total Construction Cost)			\$106,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$159,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$159,000
	Contingency (20% of total Construction Cost)			\$211,000
	TOTAL PROJECT COSTS			\$2,311,000

* Notes:

A. Cost estimate was based on aerial photos and 2003 layout. 2003 layout does not show all mitigations.

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #380. Lake Forest Dr to Rockfield Blvd

Date: 6/11/2012

Mitigation: + Restripe WB approach to provide 3 LT lanes,
2 T lanes, and no RT lane
(Remove 2 Type IV(R) arrows and restripe lane-lines.)

Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$2,000
2 Clear & Grub	\$12200 / AC	0.0	\$0
3 Earthwork	\$46.00 / CY	0	\$0
4 Remove Striping	\$13.00 / LF	850	\$11,000
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	0	\$0
14 Relocate Street Light	\$5,700.00 / EA	0	\$0
15 Relocate Traffic Signal System	\$225,000.00 / EA	0.00	\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	0	\$0
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$2.00 / LF	850	\$2,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$2,000
54 SWPPP Plan and Implementation	6%	1	\$1,000
CONSTRUCTION SUBTOTAL			\$18,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$1,000
CONSTRUCTION SUBTOTAL			\$19,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$1,000
CONSTRUCTION SUBTOTAL			\$18,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$1,000
CONSTRUCTION SUBTOTAL			\$17,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	\$0
CONSTRUCTION SUBTOTAL			\$17,000
Right-of-Way	\$75.24 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$17,000
Preliminary Project Development (10% of total Construction Cost)			\$2,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$3,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$3,000
Contingency (20% of total Construction Cost)			\$4,000
TOTAL PROJECT COSTS			\$29,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #387. Ridge Route Dr at Rockfield Blvd

Date: 6/11/2012

Mitigation: + Improve SB approach to provide 1.5 LT lanes, 1.5 T lanes,
+ and 1 defacto RT lane. Restripe NB approach to provide 1.5 LT lanes,
1.5 T lanes, and a defacto RT lane

Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$12,000
2 Clear & Grub	\$12200 / AC	0.2	\$2,000
3 Earthwork	\$46.00 / CY	0	\$0
4 Remove Striping	\$13.00 / LF	400	\$5,000
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	900	\$33,000
7 Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	0	\$0
14 Relocate Street Light	\$5,700.00 / EA	2	\$11,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	0.00	\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	7,800	\$47,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$2.00 / LF	400	\$1,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$8,000
54 SWPPP Plan and Implementation	6%	0	\$0
CONSTRUCTION SUBTOTAL			\$119,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$4,000
CONSTRUCTION SUBTOTAL			\$123,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$9,000
CONSTRUCTION SUBTOTAL			\$114,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$7,000
CONSTRUCTION SUBTOTAL			\$107,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$3,000
CONSTRUCTION SUBTOTAL			\$104,000
Right-of-Way	\$75.24 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$104,000
Preliminary Project Development (10% of total Construction Cost)			\$11,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$16,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$16,000
Contingency (20% of total Construction Cost)			\$21,000
TOTAL PROJECT COSTS			\$168,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #390. Paseo de Valencia at Avenida De La Carlota

Date: 6/11/2012

Mitigation: + Restripe SB approach to provide 2.5 LT lanes, 1.5 T lanes, no RT lane
+ Construct 3rd EB receiving lane for 3rd SB LT lane

Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$27,000
2 Clear & Grub	\$12200 / AC	0.1	\$1,000
3 Earthwork	\$46.00 / CY	400	\$18,000
4 Remove Striping	\$13.00 / LF	700	\$9,000
5 Remove Curb & Gutter	\$36.00 / LF	450	\$16,000
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	3,600	\$18,000
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	450	\$500
14 Relocate Street Light	\$5,700.00 / EA	0	\$0
15 Relocate Traffic Signal System	\$225,000.00 / EA	0.25	\$56,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	2	\$1,000
17 Relocate Sign (1 post)	\$220.00 / EA	4	\$1,000
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	1	\$5,000
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	3	\$3,000
26 Relocate Main Water Valve	\$12,200.00 / EA	1	\$12,000
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	2	\$1,000
30 Adjust Water Valve	\$610.00 / EA	5	\$3,000
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	1	\$1,000
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	3,800	\$23,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	15,100	\$6,000
37 Construct Striping & Marking	\$2.00 / LF	700	\$1,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	450	\$9,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	2,250	\$20,000
45 Construct Wheelchair Ramp	\$5,200.00 / EA	1	\$5,000
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$17,000
54 SWPPP Plan and Implementation	6%	1	\$14,000
CONSTRUCTION SUBTOTAL			\$268,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$10,000
CONSTRUCTION SUBTOTAL			\$278,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$21,000
CONSTRUCTION SUBTOTAL			\$257,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$17,000
CONSTRUCTION SUBTOTAL			\$240,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$7,000
CONSTRUCTION SUBTOTAL			\$233,000
Right-of-Way	\$75.24 / SF	3,800	\$286,000
Right-of-Way Management	5%		\$14,000
RIGHT-OF-WAY SUBTOTAL			\$300,000
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$533,000
Preliminary Project Development (10% of total Construction Cost)			\$24,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$35,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$35,000
Contingency (20% of total Construction Cost)			\$47,000
TOTAL PROJECT COSTS			\$674,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #396. El Toro Rd at Avenida De La Carlota

Date: 6/11/2012

Mitigation: + Restripe EB approach to provide 2 LT lanes, 2 T lanes, and no RT lanes

Originally Estimated by: RBF, PBS&J

+ Restripe WB approach to provide 0.5 LT lane, 1.5 T lanes, and 2 RT lanes

Revised by: HA

(Remove 10 Type VII, and 4 Type IV arrows. Install 2 Type VII, and 4 Type IV arrows.)

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$2,000
2 Clear & Grub	\$12200 / AC		\$0
3 Earthwork	\$46.00 / CY		\$0
4 Remove Striping	\$13.00 / LF	200	\$3,000
5 Remove Curb & Gutter	\$36.00 / LF		\$0
6 Remove Median Curb	\$37.00 / LF		\$0
7 Remove PCC Sidewalk	\$5.00 / SF		\$0
8 Remove Pavement	\$5.00 / SF		\$0
9 Remove Channel	\$19.00 / LF		\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF		\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF		\$0
12 Remove & Relocate Tree	\$1,300.00 / EA		\$0
13 Sawcut	\$1.25 / LF		\$0
14 Relocate Street Light	\$5,700.00 / EA		\$0
15 Relocate Traffic Signal System	\$225,000.00 / EA		\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA		\$0
17 Relocate Sign (1 post)	\$220.00 / EA		\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA		\$0
19 Relocate Call Box	\$2,051.00/EA		\$0
20 Relocate Power Pole	\$25,000 / EA		\$0
21 Relocate Catch Basin	\$9,760.00 / EA		\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA		\$0
23 Relocate Bus Bench	\$1,458.00/ EA		\$0
24 Relocate Monument Wall	\$6,100.00 / EA		\$0
25 Relocate Utility Boxes	\$895.00 / EA		\$0
26 Relocate Main Water Valve	\$12,200.00 / EA		\$0
27 Relocate Utility Vault	\$10,000 / EA		\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA		\$0
29 Adjust Water Meter	\$610.00 / EA		\$0
30 Adjust Water Valve	\$610.00 / EA		\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA		\$0
32 Modify Driveway	\$6,100.00 / LS		\$0
33 Construct PCC Pavement	\$7.50 / SF		\$0
34 Construct AC Pavement	\$6.00 / SF		\$0
35 Construct AC Overlay	\$2.50 / SF		\$0
36 Construct Slurry Seal	\$0.4 / SF		\$0
37 Construct Striping & Marking	\$2.00 / LF	100	\$0
38 Construct AC Dike	\$4.00 / LF		\$0
39 Construct Curb & Gutter	\$19.00 / LF		\$0
40 Construct Concrete Barrier	\$295.00 / LF		\$0
41 Construct Median Curb	\$31.00 / LF		\$0
42 Construct Median Concrete	\$7.9 / SF		\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF		\$0
44 Construct PCC Sidewalk	\$9.05 / SF		\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA		\$0
46 Construct Retaining Wall	\$114 / SF		\$0
47 Construct Storm Drain Main	\$122.00 / LF		\$0
48 Construct RCB	\$549.00 / CY		\$0
49 Construct Concrete V-Ditch	\$19.00 / LF		\$0
50 Construct Bridge Widening	\$500.00 / SF		\$0
51 Install Ramp Metering System	\$80,000.00 / EA		\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$2,000
54 SWPPP Plan and Implementation	6%	0	\$0
CONSTRUCTION SUBTOTAL			\$7,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$252
CONSTRUCTION SUBTOTAL			\$7,252
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$558
CONSTRUCTION SUBTOTAL			\$6,694
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$435
CONSTRUCTION SUBTOTAL			\$6,259
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$182
CONSTRUCTION SUBTOTAL			\$6,077
Right-of-Way	\$75.24 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$6,077
Preliminary Project Development (10% of total Construction Cost)			\$1,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$1,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$1,000
Contingency (20% of total Construction Cost)			\$2,000
TOTAL PROJECT COSTS			\$11,077

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #420. El Toro Rd at Jeronimo Rd

Date: 6/11/2012

Mitigation: + Add 2nd SB LT lane, convert NB RT lane into 4th T lane
+ Convert SB defacto lane to 4th T lane, and add EB RT lane

Originally Estimated by: RBF, PBS&J

Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$300,000
2 Clear & Grub	\$12200 / AC	0.1	\$1,000
3 Earthwork	\$46.00 / CY	1,200	\$55,000
4 Remove Striping	\$13.00 / LF	10,600	\$138,000
5 Remove Curb & Gutter	\$36.00 / LF	2,300	\$83,000
6 Remove Median Curb	\$37.00 / LF	55	\$2,000
7 Remove PCC Sidewalk	\$5.00 / SF	17,800	\$89,000
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	20	\$26,000
13 Sawcut	\$1.25 / LF	2,300	\$3,000
14 Relocate Street Light	\$5,700.00 / EA	3	\$17,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	1.25	\$281,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	11	\$2,000
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	9	\$225,000
21 Relocate Catch Basin	\$9,760.00 / EA	2	\$20,000
22 Relocate Fire Hydrant	\$5,000.00 / EA	1	\$5,000
23 Relocate Bus Bench	\$1,458.00/ EA	2	\$3,000
24 Relocate Monument Wall	\$6,100.00 / EA	1	\$6,000
25 Relocate Utility Boxes	\$895.00 / EA	11	\$10,000
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	3	\$30,000
28 Adjust Manhole to Grade	\$1,500.00 / EA	6	\$9,000
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	10	\$6,000
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	8	\$5,000
32 Modify Driveway	\$6,100.00 / LS	2	\$12,000
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	10,200	\$61,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	165,000	\$66,000
37 Construct Striping & Marking	\$2.00 / LF	10,800	\$22,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	2,300	\$44,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	13,500	\$122,000
45 Construct Wheelchair Ramp	\$5,200.00 / EA	4	\$21,000
46 Construct Retaining Wall	\$114 / SF	5,300	\$604,000
46.1 Remove Retaining Wall	\$74.00/SF	5,300	\$392,000
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$189,000
54 SWPPP Plan and Implementation	6%	1	\$153,000
CONSTRUCTION SUBTOTAL			\$3,002,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$108,000
CONSTRUCTION SUBTOTAL			\$3,110,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$239,000
CONSTRUCTION SUBTOTAL			\$2,871,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$187,000
CONSTRUCTION SUBTOTAL			\$2,684,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$78,000
CONSTRUCTION SUBTOTAL			\$2,606,000
Right-of-Way	\$75.24 / SF	11,100	\$835,000
Right-of-Way Management	5%		\$42,000
RIGHT-OF-WAY SUBTOTAL			\$877,000
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$3,483,000
Preliminary Project Development (10% of total Construction Cost)			\$261,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$391,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$391,000
Contingency (20% of total Construction Cost)			\$522,000
TOTAL PROJECT COSTS			\$5,048,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #422. Los Alisos Blvd at Jeronimo Rd
Mitigation: + Add 2nd EB and WB LT lanes

Date: 6/11/2012
Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$103,000
2 Clear & Grub	\$12200 / AC	0.2	\$2,000
3 Earthwork	\$46.00 / CY	800	\$37,000
4 Remove Striping	\$13.00 / LF	3,000	\$39,000
5 Remove Curb & Gutter	\$36.00 / LF	1,300	\$47,000
6 Remove Median Curb	\$37.00 / LF	700	\$26,000
7 Remove PCC Sidewalk	\$5.00 / SF	6,400	\$32,000
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Bean Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	5	\$7,000
13 Sawcut	\$1.25 / LF	1,600	\$2,000
14 Relocate Street Light	\$5,700.00 / EA	1	\$6,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	0.50	\$113,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	8	\$2,000
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	1	\$5,000
23 Relocate Bus Bench	\$1,458.00 / EA	1	\$1,000
24 Relocate Monument Wall	\$6,100.00 / EA	1	\$6,000
25 Relocate Utility Boxes	\$895.00 / EA	1	\$1,000
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	3	\$30,000
28 Adjust Manhole to Grade	\$1,500.00 / EA	4	\$6,000
29 Adjust Water Meter	\$610.00 / EA	4	\$2,000
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	1	\$6,000
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	7,500	\$45,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	67,500	\$27,000
37 Construct Striping & Marking	\$2.00 / LF	3,400	\$7,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	1,300	\$25,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	700	\$22,000
42 Construct Median Concrete	\$7.9 / SF	7,000	\$55,000
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	6,400	\$58,000
45 Construct Wheelchair Ramp	\$5,200.00 / EA	2	\$10,000
46 Construct Retaining Wall	\$114 / SF	1,700	\$194,000
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$65,000
54 SWPPP Plan and Implementation	6%	1	\$53,000
CONSTRUCTION SUBTOTAL			\$1,034,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$37,000
CONSTRUCTION SUBTOTAL			\$1,071,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$82,000
CONSTRUCTION SUBTOTAL			\$989,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$64,000
CONSTRUCTION SUBTOTAL			\$925,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$27,000
CONSTRUCTION SUBTOTAL			\$898,000
Right-of-Way	\$75.24 / SF	6,000	\$451,000
Right-of-Way Management	5%		\$23,000
RIGHT-OF-WAY SUBTOTAL			\$474,000
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$1,372,000
Preliminary Project Development (10% of total Construction Cost)			\$90,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$135,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$135,000
Contingency (20% of total Construction Cost)			\$180,000
TOTAL PROJECT COSTS			\$1,912,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2010 COST ESTIMATES**

Location: #423. Muirlands Blvd at Los Alisos Blvd
Mitigation: + Add 2nd NB, SB, EB and WB LT lanes
+ Add EB RT lane

Date: 9/20/2010
Originally Estimated by: RBF, PBS&J
Revised by: PM

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$258,000
2	Clear & Grub	\$12200 / AC	0.6	\$7,000
3	Earthwork	\$46.00 / CY	2,800	\$129,000
4	Remove Striping	\$13.00 / LF	10,800	\$140,000
5	Remove Curb & Gutter	\$36.00 / LF	3,000	\$108,000
6	Remove Median Curb	\$37.00 / LF	1,400	\$52,000
7	Remove PCC Sidewalk	\$5.00/ SF	19,200	\$96,000
8	Remove Pavement	\$5.00 / SF	0	\$0
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	1,000	\$31,000
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	55	\$72,000
13	Sawcut	\$1.25 / LF	3,000	\$4,000
14	Relocate Street Light	\$5,700.00 / EA	0	\$0
15	Relocate Traffic Signal System	\$225,000.00 / EA	1.00	\$225,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	8	\$2,000
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	1	\$10,000
22	Relocate Fire Hydrant	\$5,000.00 / EA	1	\$5,000
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	4	\$4,000
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	2	\$20,000
28	Adjust Manhole to Grade	\$1,500.00 / EA	1	\$2,000
29	Adjust Water Meter	\$610.00 / EA	4	\$2,000
30	Adjust Water Valve	\$610.00 / EA	3	\$2,000
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	3	\$18,000
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	24,900	\$149,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	265,600	\$106,000
37	Construct Striping & Marking	\$2.00 / LF	10,800	\$22,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	3,000	\$57,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	1,400	\$43,000
42	Construct Median Concrete	\$7.9 / SF	7,700	\$61,000
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	19,200	\$174,000
45	Construct Wheelchair Ramp	\$5,200.00 / EA	3	\$16,000
46	Construct Retaining Wall	\$114 / SF	1,500	\$171,000
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	600	\$300,000
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$162,000
54	SWPPP Plan and Implementation	6%	1	\$131,000
CONSTRUCTION SUBTOTAL				\$2,579,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$93,000
CONSTRUCTION SUBTOTAL				\$2,672,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$206,000
CONSTRUCTION SUBTOTAL				\$2,466,000
	Right-of-Way	\$71.66 / SF	24,900	\$1,784,000
	Right-of-Way Management	5%		\$89,000
RIGHT-OF-WAY SUBTOTAL				\$1,873,000
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST				\$4,339,000
Preliminary Project Development (10% of total Construction Cost)				\$247,000
Design Engineering/Administration Costs (15% of total Construction Cost)				\$370,000
Construction Engineering Costs/Administration (15% of total Construction Cost)				\$370,000
Contingency (20% of total Construction Cost)				\$494,000
TOTAL PROJECT COSTS				\$5,820,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #424. Los Alisos Blvd at Rockfield Blvd/Fordview St
Mitigation: + Add 2nd NB LT lane and SB RT lane

Date: 6/11/2012
Originally Estimated by: RBF, PBS&J
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$136,000
2 Clear & Grub	\$12200 / AC	0.1	\$1,000
3 Earthwork	\$46.00 / CY	150	\$7,000
4 Remove Striping	\$13.00 / LF	3,250	\$42,000
5 Remove Curb & Gutter	\$36.00 / LF	1,000	\$36,000
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00/ SF	8,000	\$40,000
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	5	\$7,000
13 Sawcut	\$1.25 / LF	1,000	\$1,000
14 Relocate Street Light	\$5,700.00 / EA	0	\$0
15 Relocate Traffic Signal System	\$225,000.00 / EA	1.00	\$225,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	5	\$1,000
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	9	\$225,000
21 Relocate Catch Basin	\$9,760.00 / EA	1	\$10,000
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	7	\$6,000
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	2	\$3,000
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	1	\$1,000
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	3	\$2,000
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	3,100	\$19,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	61,200	\$24,000
37 Construct Striping & Marking	\$2.00 / LF	2,800	\$6,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	1,000	\$19,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	6,000	\$54,000
45 Construct Wheelchair Ramp	\$5,200.00 / EA	4	\$21,000
46 Construct Retaining Wall	\$114 / SF	2,250	\$257,000
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Remove Structure	\$61,000.00 / EA	1	\$61,000
52 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
53 Apply ATMS	\$113,165.00 / LS	0	\$0
54 Traffic Control	8% (\$2,000 Min)	1	\$85,000
55 SWPPP Plan and Implementation	6%	1	\$69,000
CONSTRUCTION SUBTOTAL			\$1,358,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$49,000
CONSTRUCTION SUBTOTAL			\$1,407,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$108,000
CONSTRUCTION SUBTOTAL			\$1,299,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$84,000
CONSTRUCTION SUBTOTAL			\$1,215,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$35,000
CONSTRUCTION SUBTOTAL			\$1,180,000
Right-of-Way	\$75.24 / SF	1,400	\$105,000
Right-of-Way Management	5%		\$5,000
RIGHT-OF-WAY SUBTOTAL			\$110,000
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$1,290,000
Preliminary Project Development (10% of total Construction Cost)			\$118,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$177,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$177,000
Contingency (20% of total Construction Cost)			\$236,000
TOTAL PROJECT COSTS			\$1,998,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2010 COST ESTIMATES**

Location: #432. Alicia Pkwy at Muirlands Blvd

Date: 9/20/2010

Mitigation: + Add 2nd EB, WB & SB LT lane & convert SB RT lane to 4th T lane

Originally Estimated by: RBF, PBS&J

Revised by: PM

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$340,000
2	Clear & Grub	\$12200 / AC	0.5	\$6,000
3	Earthwork	\$46.00 / CY	3,700	\$170,000
4	Remove Striping	\$13.00 / LF	9,100	\$118,000
5	Remove Curb & Gutter	\$36.00 / LF	3,000	\$108,000
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00/ SF	20,100	\$101,000
8	Remove Pavement	\$5.00 / SF	0	\$0
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	62	\$81,000
13	Sawcut	\$1.25 / LF	3,000	\$4,000
14	Relocate Street Light	\$5,700.00 / EA	4	\$23,000
15	Relocate Traffic Signal System	\$225,000.00 / EA	1	\$225,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	7	\$2,000
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	4	\$39,000
22	Relocate Fire Hydrant	\$5,000.00 / EA	2	\$10,000
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	13	\$12,000
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	3	\$30,000
28	Adjust Manhole to Grade	\$1,500.00 / EA	3	\$5,000
29	Adjust Water Meter	\$610.00 / EA	4	\$2,000
30	Adjust Water Valve	\$610.00 / EA	3	\$2,000
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	2	\$1,000
32	Modify Driveway	\$6,100.00 / LS	2	\$12,000
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	20,000	\$120,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	99,600	\$40,000
37	Construct Striping & Marking	\$2.00 / LF	9,100	\$18,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	3,000	\$57,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	20,000	\$181,000
45	Construct Wheelchair Ramp	\$5,200.00 / EA	3	\$16,000
46	Construct Retaining Wall	\$114 / SF	11,300	\$1,288,000
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$214,000
54	SWPPP Plan and Implementation	6%	1	\$173,000
	CONSTRUCTION SUBTOTAL			\$3,398,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$122,000
	CONSTRUCTION SUBTOTAL			\$3,520,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$271,000
	CONSTRUCTION SUBTOTAL			\$3,249,000
	Right-of-Way	\$71.66 / SF	20,000	\$1,433,000
	Right-of-Way Management	5%		\$72,000
	RIGHT-OF-WAY SUBTOTAL			\$1,505,000
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$4,754,000
	Preliminary Project Development (10% of total Construction Cost)			\$325,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$488,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$488,000
	Contingency (20% of total Construction Cost)			\$650,000
	TOTAL PROJECT COSTS			\$6,705,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #557, Ridge Valley at Irvine Blvd (Now #558)
Mitigation: + Add 2nd EB LT lane

Date: 3/10/2013
Originally Estimated by: RBF
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$11,000
2	Clear & Grub	\$12200 / AC	0.1	\$1,000
3	Earthwork	\$46.00 / CY	388	\$18,000
4	Remove Striping	\$13.00 / LF	0	\$0
5	Remove Curb & Gutter	\$36.00 / LF	0	\$0
6	Remove Median Curb	\$37.00 / LF	480	\$18,000
7	Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8	Remove Pavement	\$5.00 / SF	0	\$0
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	480	\$1,000
14	Relocate Street Light	\$5,700.00 / EA	0	\$0
15	Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	4,330	\$26,000
35	Construct AC Overlay	\$2.50 / SF	1,650	\$4,000
36	Construct Slurry Seal	\$0.4 / SF	5,980	\$2,000
37	Construct Striping & Marking	\$2.00 / LF	330	\$1,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	0	\$0
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	477	\$15,000
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45	Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$7,000
54	SWPPP Plan and Implementation	6%	1	\$6,000
	CONSTRUCTION SUBTOTAL			\$110,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$4,000
	CONSTRUCTION SUBTOTAL			\$114,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$9,000
	CONSTRUCTION SUBTOTAL			\$105,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$7,000
	CONSTRUCTION SUBTOTAL			\$98,000
	California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$3,000
	CONSTRUCTION SUBTOTAL			\$95,000
	Right-of-Way	\$75.24 / SF	0	\$0
	Right-of-Way Management	5%		\$0
	RIGHT-OF-WAY SUBTOTAL			\$0
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$95,000
	Preliminary Project Development (10% of total Construction Cost)			\$10,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$15,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$15,000
	Contingency (20% of total Construction Cost)			\$19,000
	TOTAL PROJECT COSTS			\$154,000

* Notes:

A. This intersection has not been constructed. Cost estimate was based on 2003 layout.

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: Segment 2: Jamboree Rd (Portola Pkwy to Irvine City Limits north of Tustin Ranch Rd)

Date: 6/11/2012

Originally Estimated by: RBF

Mitigation: + Improve to 6 lanes (unfunded planned improvements)

Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$255,000
2	Clear & Grub	\$12200 / AC	0.2	\$2,000
3	Earthwork	\$329,400.00 / LS	1	\$329,000
4	Remove Striping	\$51,972.00 / LS	0.5	\$26,000
5	Remove Curb & Gutter	\$86,620.00 / LS	1	\$87,000
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8	Remove Pavement	\$103,944.00 / LS	1	\$104,000
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	21	\$27,000
13	Sawcut	\$34,648.00 / LS	1	\$35,000
14	Relocate Street Light	\$5,700.00 / EA	0	\$0
15	Relocate Traffic Signal System	\$225,000.00 / EA	1	\$225,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	1	\$6,000
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$866,566.00 / LS	1	\$867,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$51,972.00 / LS	0.5	\$26,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$259,982.00 / LS	1	\$260,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$103,944.00 / LS	1	\$104,000
44	Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45	Construct Wheelchair Ramp	\$1,830.00 / EA	0	\$0
46	Construct Retaining Wall	\$51,972.00 / LS	1	\$26,000
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$42,000
54	SWPPP Plan and Implementation	6%	1	\$130,000
	CONSTRUCTION SUBTOTAL			\$2,551,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$92,000
	CONSTRUCTION SUBTOTAL			\$2,643,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$204,000
	CONSTRUCTION SUBTOTAL			\$2,439,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$159,000
	CONSTRUCTION SUBTOTAL			\$2,280,000
	California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$66,000
	CONSTRUCTION SUBTOTAL			\$2,214,000
	Right-of-Way	\$75.24 / SF	0	\$0
	Right-of-Way Management	5%		\$0
	RIGHT-OF-WAY SUBTOTAL			\$0
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$2,214,000
	Preliminary Project Development (10% of total Construction Cost)			\$222,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$333,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$333,000
	Contingency (20% of total Construction Cost)			\$443,000
	TOTAL PROJECT COSTS			\$3,545,000

Unit cost for Retaining Wall different but consistent with 2003 Cost Estimates

* Notes:

- A. This project includes Location #123, improvement of Jamboree Rd to six lanes at Tustin Ranch Rd.
- B. Refer to the Location #123 cost estimate for restriping costs at that intersection.

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: Segment 3: Jeffrey Rd (Future extension from Portola Pkwy to SR-241)

Date: 6/11/2012

Mitigation: + Construct as 4-lane primary arterial
(unfunded planned improvements)

Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$1,624,000
2 Clear & Grub	\$12200 / AC	0.0	\$0
3 Earthwork	\$2,977,898.00 / LS	1	\$2,978,000
4 Remove Striping	\$13.00 / LF	0	\$0
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	0	\$0
14 Relocate Street Light	\$5,700.00 / EA	66	\$376,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	840,000	\$5,040,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$2.00 / LF	49,000	\$98,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	20,000	\$380,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Drainage System	\$1,708,000.00 / SF	1	\$1,708,000
43 Construct Slope Landscaping	\$.80 / SF	915,200	\$732,000
44 Construct PCC Sidewalk	\$9.05 / SF	160,000	\$1,448,000
45 Construct Erosion Control	\$1,220.00 / AC	21	\$26,000
46 Santiago Aqueduct Encasement Protection	\$610,000.00 / LS	1	\$610,000
47 Utility Protection Allowance	\$122,000.00 / LS	1	\$122,000
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$270,000
54 SWPPP Plan and Implementation	6%	1	\$827,000
CONSTRUCTION SUBTOTAL			\$16,239,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$585,000
CONSTRUCTION SUBTOTAL			\$16,824,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$1,295,000
CONSTRUCTION SUBTOTAL			\$15,529,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$1,009,000
CONSTRUCTION SUBTOTAL			\$14,520,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$421,000
CONSTRUCTION SUBTOTAL			\$14,099,000
Right-of-Way	\$75.24 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$14,099,000
Preliminary Project Development (10% of total Construction Cost)			\$1,410,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$2,115,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$2,115,000
Contingency (20% of total Construction Cost)			\$2,820,000
TOTAL PROJECT COSTS			\$22,559,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010 COST ESTIMATES**

Location: Segment 4: SR-133 (I-405 to Lake Forest)
Mitigation: + Improve to 6 lanes

Date: 9/24/2010
Originally Estimated by: RBF(2003,2006)
Revised by: PM

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$180,000
2 Clear & Grub	\$1,000 / CY	2.0	\$2,000
3 Earthwork	\$10.00 / CY	4,300	\$43,000
4 Remove Striping	\$3.00 / LF	0	\$0
5 Remove Curb & Gutter	\$3.00 / LF	0	\$0
6 Remove Median Curb	\$3.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$2.00 / SF	0	\$0
8 Remove Pavement	\$1.50 / SF	46,600	\$70,000
9 Remove Channel	\$15.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$10.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$55.00 / LF	0	\$0
12 Remove & Relocate Tree	\$500/ EA	0	\$0
13 Sawcut	\$1.00 / LF	9,450	\$9,000
14 Relocate Street Light	\$3,000 / EA	0	\$0
15 Relocate Traffic Signal System	\$140,000 / EA	1	\$140,000
16 Relocate Freeway Sign (2 post)	\$1,000 / EA	0	\$0
17 Relocate Sign (1 post)	\$200 / EA	0	\$0
18 Reconstruct Overhead Sign	\$35,000 / EA	0	\$0
19 Relocate Call Box	\$1,000 / EA	0	\$0
20 Relocate Power Pole	\$15,000 / EA	0	\$0
21 Relocate Catch Basin	\$5,000 / EA	10	\$50,000
22 Relocate Fire Hydrant	\$1,000 / EA	0	\$0
23 Relocate Bus Bench	\$600 / EA	0	\$0
24 Relocate Monument Wall	\$5,000 / EA	0	\$0
25 Relocate Utility Boxes	\$500 / EA	0	\$0
26 Relocate Main Water Valve	\$10,000 / EA	0	\$0
27 Relocate Utility Vault	\$600 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$500 / EA	0	\$0
30 Adjust Water Valve	\$500 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$500 / EA	0	\$0
32 Modify Driveway	\$5,000 / LS	0	\$0
33 Construct PCC Pavement	\$6.00 / SF	0	\$0
34 Construct AC Pavement	\$4.50 / SF	135,000	\$608,000
35 Construct AC Overlay	\$1.50 / SF	0	\$0
36 Construct Slurry Seal	0.25 / SF	0	\$0
37 Construct Striping & Marking	\$4.00 / SF	8,930	\$36,000
38 Construct AC Dike	\$2.00 / LF	0	\$0
39 Construct Curb & Gutter	\$15.00 / LF	0	\$0
40 Construct Concrete Barrier	\$50.00 / LF	0	\$0
41 Construct Median Curb	\$11.00 / LF	0	\$0
42 Construct Median Concrete	\$6.00 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$10.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$3.00 / SF	0	\$0
45 Construct Wheelchair Ramp	\$1,500 / SF	0	\$0
46 Construct Retaining Wall	\$40.00 / SF	0	\$0
47 Construct Storm Drain Main	\$100.00 / LF	0	\$0
48 Construct RCB	\$70.00 / SF	52	\$4,000
49 Construct Concrete V-Ditch	\$15.00 / SF	0	\$0
50 Construct Bridge Widening	\$175.00 / SF	0	\$0
51 Utilities	\$540,000 / SF	1	\$540,000
52 Apply ATMS	\$65,000 / LS	0	\$0
53 Traffic Control	2% (\$2,000 Min)	1	\$30,000
54 SWPPP Plan and Implementation	6%	1	\$92,000
56 Additional Caltrans Requirement	600,000 / LS	1	\$600,000
CONSTRUCTION SUBTOTAL			\$2,404,000
California Highway Price Index Increase	134.2%	CCI 2003 --> 2007	\$3,226,000
CONSTRUCTION SUBTOTAL			\$5,630,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$203,000
CONSTRUCTION SUBTOTAL			\$5,833,000
California Highway Price Index			
ACTUAL CONSTRUCTION COST		2010	\$4,953,105
Right-of-Way	\$71.66 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			
Preliminary Project Development (Actual Expenditure)			
Design Engineering/Administration Costs (Actual Expenditure)			
Construction Engineering Costs/Administration			
Contingency			
TOTAL PROJECT COSTS (ACTUAL COSTS)			\$4,953,105

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #1, I-5 (Sand Canyon Ave to Jeffrey Rd)

Date: 6/11/2012

Mitigation: + Add 6th NB (2012) and SB mixed-flow lanes and add 2nd drop lane from I-5 to the SB off ramp at Sand Canyon Ave

Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$723,000
2 Clear & Grub	\$12200 / AC	2.0	\$24,000
3 Earthwork	\$46.00 / CY	18,133	\$834,000
4 Remove Striping	\$13.00 / LF	13,600	\$177,000
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8 Roadway Excavation (2 ft thick)	\$32.00 / CY	5,037	\$161,000
9 Remove Channel	\$55.00 / LF	600	\$33,000
10 Remove/Replace Chain Link Fence	\$31.00 / LF	100	\$3,000
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	2,400	\$206,000
12 Remove & Relocate Tree	\$1,300.00 / EA	3	\$4,000
13 Sawcut	\$1.25 / LF	8,000	\$10,000
14 Relocate Street Light	\$5,700.00 / EA	14	\$80,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	0.00	\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	7	\$5,000
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18A Overhead Sign (2 posts)	\$240,000.00 / EA	2	\$480,000
18 B Overhead Sign (1 post)	\$140,000.00 / EA	1	\$140,000
19 Relocate Call Box	\$2,051.00/EA	2	\$4,000
20 Relocate Power Pole	\$25,000 / EA	2	\$50,000
21 Relocate Catch Basin	\$9,760.00 / EA	11	\$107,000
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	149,600	\$898,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	75,600	\$30,000
37 Construct Striping & Marking	\$2.00 / LF	20,400	\$41,000
38 Construct AC Dike	\$4.00 / LF	2,800	\$11,000
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	400	\$118,000
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	1,600	\$182,000
47 Construct Storm Drain Main	\$122.00 / LF	1,600	\$195,000
48 Construct RCB	\$549.00 / CY	600	\$329,000
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$330,000
54 Remove Pavement Marker	\$20,000.00/ LS	1	\$20,000
55 Remove MBGR	\$10.00/ LF	2,400	\$24,000
56 Drainage Mobilization	\$48,800.00/ LS	1	\$49,000
57 Asphalt Concrete Base (8 in.)	\$90.00/ TON	5,881	\$529,000
58 Class 2 Aggregate Base (20 in.)	\$60.00/ CY	9,234	\$554,000
59 Pavement Marker	\$20,000.00/ LS	1	\$20,000
60 Temporary Pavement Marker	\$15,000.00/ LS	1	\$15,000
61 Temporary Striping	\$20,000.00/ LS	1	\$20,000
62 Temporary K-rail	\$19.00/ LF	2,800	\$53,000
63 Temporary Crash Cushion	\$325.00/ EA	10	\$3,000
64 Overhead CMS	\$140,000.00/ EA	1	\$140,000
65 Remove Overhead Signs	\$6,000.00/ EA	7	\$42,000
66 Lead Investigation	\$30,000.00/ LS	1	\$30,000
67 RE Office	\$6,000.00/ MO	12	\$72,000
68 Construction Area Sign	\$40,000.00/ LS	1	\$40,000
69 Portable CMS	\$50,000.00/ LS	1	\$50,000
70 CHP/COZEPP	\$50,000.00/ LS	1	\$50,000
71 Traffic Management Plan	\$70,000.00/ LS	1	\$70,000
72 Public Awareness Campaign	\$10,000.00/ LS	1	\$10,000
73 SWPPP Plan and Implementation	6%	1	\$267,000
CONSTRUCTION SUBTOTAL			\$7,233,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$260,000
CONSTRUCTION SUBTOTAL			\$7,493,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$577,000
CONSTRUCTION SUBTOTAL			\$6,916,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$450,000
CONSTRUCTION SUBTOTAL			\$6,466,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$188,000
CONSTRUCTION SUBTOTAL			\$6,278,000
Right-of-Way	\$75.24 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$6,278,000
Preliminary Project Development (15% of total construction cost)			\$942,000
Design Engineering/Administration Costs (15% of total construction cost)			\$942,000
Construction Engineering Costs/Administration (15% of total construction cost)			\$942,000
Contingency (20% of total construction cost)			\$1,256,000
TOTAL PROJECT COSTS			\$10,360,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #2, I-405 (Sand Canyon Ave to Jeffrey Rd)

Date: 6/11/2012

Mitigation: + Add 5th NB and SB mixed-flow (general purpose) lanes

Originally Estimated by: RBF, PBS&J

Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$33,000
2	Clear & Grub	\$12200 / AC	0.0	\$0
3	Earthwork	\$46.00 / CY	0	\$0
4	Remove Striping	\$13.00 / LF	5,800	\$75,000
5	Remove Curb & Gutter	\$36.00 / LF	0	\$0
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00/ SF	0	\$0
8	Remove Pavement	\$5.00 / SF	0	\$0
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00/ LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	0	\$0
14	Relocate Street Light	\$5,700.00 / EA	0	\$0
15	Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	0	\$0
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$2.00 / LF	5,800	\$12,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	0	\$0
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45	Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control Systems	\$30,000.00/ LS	1	\$30,000
54	Remove Pavement Marker	\$20,000.00/ LS	1	\$20,000
55	Pavement Marker	\$20,000.00/ LS	1	\$20,000
56	Temporary Pavement Marker	\$10,000.00/ LS	1	\$10,000
57	Temporary Striping	\$10,000.00/ LS	1	\$10,000
58	Temporary K-rail	\$19.00/ LF	2,900	\$55,000
59	Temporary Crash Cushion	\$325.00/ EA	5	\$2,000
60	Lead Investigation	\$10,000.00/ LS	1	\$10,000
61	RE Office	\$6,000.00/ Mon	1	\$6,000
62	Construction Area Sign	\$10,000.00/ LS	1	\$10,000
63	CHP/COZEPP	\$5,000.00/ LS	1	\$5,000
64	Traffic Management Plan	\$5,000.00/ LS	1	\$5,000
65	Portable CMS	\$10,000.00/ LS	1	\$10,000
66	SWPPP Plan and Implementation	\$20,000.00/ LS	1	\$20,000
	CONSTRUCTION SUBTOTAL			\$333,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$12,000
	CONSTRUCTION SUBTOTAL			\$345,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$27,000
	CONSTRUCTION SUBTOTAL			\$318,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$21,000
	CONSTRUCTION SUBTOTAL			\$297,000
	California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$9,000
	CONSTRUCTION SUBTOTAL			\$288,000
	Right-of-Way	\$75.24 / SF	0	\$0
	Right-of-Way Management	5%		\$0
	RIGHT-OF-WAY SUBTOTAL			\$0
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$288,000
	Preliminary Project Development (15% of total construction cost)			\$43,000
	Design Engineering/Administration Costs (15% of total construction cost)			\$43,000
	Construction Engineering Costs/Administration (15% of total construction cost)			\$43,000
	Contingency (20% of total construction cost)			\$58,000
	TOTAL PROJECT COSTS			\$475,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #5, I-5 at Culver Dr (SB off ramp)
Mitigation: + Add 2nd auxiliary lane from I-5 to the off ramp

Date: 6/11/2012
Originally Estimated by: RBF
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$388,000
2	Clear & Grub	\$12200 / AC	1.0	\$12,000
3	Earthwork	\$46.00 / CY	4,000	\$184,000
4	Remove Striping	\$13.00 / LF	2,400	\$31,000
5	Remove Curb & Gutter	\$36.00 / LF	0	\$0
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8	Roadway Excavation (2 ft thick)	\$35.00 / CY	2,622	\$92,000
9	Remove Channel	\$50.00 / LF	1,800	\$90,000
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	225	\$19,000
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	3,600	\$5,000
14	Relocate Street Light	\$5,700.00 / EA	5	\$29,000
15	Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	2	\$1,000
17	Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18A	Overhead Sign (2 posts)	\$240,000.00 / EA	0	\$0
18B	Overhead Sign (1 post)	\$140,000.00 / EA	2	\$280,000
19	Relocate Call Box	\$2,051.00/EA	2	\$4,000
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	4	\$39,000
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$240.00 / CY	2,424	\$582,000
34	Construct AC Pavement	\$6.00 / SF	0	\$0
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$2.50 / LF	7,200	\$18,000
38	Construct AC Dike	\$4.00 / LF	650	\$3,000
39	Construct Curb & Gutter	\$19.00 / LF	0	\$0
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45	Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	600	\$73,000
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$450.00 / CY	283	\$127,000
50	Construct Bridge Widening	\$500.00 / SF	2,000	\$1,000,000
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Remove Pavement Marker	\$5,000.00/ LS	1	\$5,000
54	Remove MBGR	\$15.00 / LF	225	\$3,000
55	Class 2 Aggregate Base (4 in)	\$60.00 / CY	950	\$57,000
56	Cement Treated Permeable Base (4 in)	\$100.00 / CY	950	\$95,000
57	Drainage Mobilization	\$50,138.00/ LS	1	\$50,000
58	Pavement Marker	\$10,000.00 / LS	1	\$10,000
59	Temporary Pavement Marker	\$8,000.00/ LS	1	\$8,000
60	Temporary Striping	\$10,000.00 / LS	1	\$10,000
61	Temporary K-rail	\$22.00 / LF	1,000	\$22,000
62	Remove Overhead Signs	\$6,000.00/ EA	2	\$12,000
63	Lead Investigation	\$25,000.00/ LS	1	\$25,000
64	RE Office	\$6,000.00/ MON	12	\$72,000
65	Portable CMS	\$35,000.00/ LS	1	\$35,000
66	Construction Area Sign	\$30,000.00/ LS	1	\$30,000
67	Traffic Control	\$200,000.00/ LS	1	\$200,000
68	CHP/COZEEP	\$30,000.00/ LS	1	\$30,000
69	Traffic Management Plan	\$40,000.00/ LS	1	\$40,000
70	Public Awareness Campaign	\$10,000.00/ LS	1	\$10,000
71	SWPPP Plan and Implementation	\$140,000.00/ IS	1	\$193,000
	CONSTRUCTION SUBTOTAL			\$3,884,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$140,000
	CONSTRUCTION SUBTOTAL			\$4,024,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$310,000
	CONSTRUCTION SUBTOTAL			\$3,714,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$241,000
	CONSTRUCTION SUBTOTAL			\$3,473,000
	California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$101,000
	CONSTRUCTION SUBTOTAL			\$3,372,000
	Right-of-Way	\$75.24 / SF	0	\$0
	Right-of-Way Management	5%		\$0
	RIGHT-OF-WAY SUBTOTAL			\$0
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$3,372,000
	Preliminary Project Development (15% of total construction cost)			\$506,000
	Design Engineering/Administration Costs (15% of total construction cost)			\$506,000
	Construction Engineering Costs/Administration (15% of total construction cost)			\$506,000
	Contingency (20% of total construction cost)			\$674,000
	TOTAL PROJECT COSTS			\$5,564,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #3. I-5 at Alton Pkwy (SB off ramp)

Date: 6/11/2012

Mitigation: + Add 2nd auxiliary lane from I-5 to the off ramp

Originally Estimated by: RBF, PBS&J

Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$293,000
2 Clear & Grub	\$12200 / AC	0.6	\$7,000
3 Earthwork	\$46.00 / CY	7,900	\$363,000
4 Remove Striping	\$3.8 / LF	2,100	\$6,000
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8 Remove Pavement (2 ft thick)	\$5.00 / SF	2,014	\$10,000
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$65.00 / LF	450	\$29,000
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	2,700	\$3,000
14 Relocate Street Light	\$5,700.00 / EA	7	\$40,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	2	\$1,000
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18A Overhead Sign (2 posts)	\$240,000.00 / EA	2	\$480,000
18B Overhead Sign (1 post)	\$140,000.00 / EA	1	\$140,000
19 Relocate Call Box	\$2,051.00/EA	1	\$2,000
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	7	\$68,000
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement (7 in.)	\$100.00/ TON	1,989	\$199,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$2.00 / LF	6,000	\$12,000
38 Construct AC Dike	\$4.00 / LF	2,100	\$8,000
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	1,900	\$232,000
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control Systems	\$102,000.00/ LS	1	\$102,000
54 Traffic Management Plan	\$35,000.00/ LS	1	\$35,000
55 Remove Pavement Marker	\$5,000.00/ LS	1	\$5,000
56 Remove MBGR	\$15.00/ LF	450	\$7,000
57 Asphalt Concrete Base (8 in.)	\$100.00/ TON	2,272	\$227,000
58 Class 2 Aggregate Base (20 in.)	\$65.00/ CY	3,512	\$228,000
59 Drainage Mobilization	\$57,950.00/ LS	1	\$58,000
60 Pavement Marker	\$7,000.00/ LS	1	\$7,000
61 Temporary Pavement Marker	\$7,000.00/ LS	1	\$7,000
62 Temporary Striping	\$9,000.00/ LS	1	\$9,000
63 Temporary K-rail	\$19.00/ LS	2,100	\$40,000
64 Temporary Crash Cushion	\$250.00/ EA	10	\$3,000
65 Remove Overhead Signs	\$6,000.00/ EA	2	\$12,000
66 Lead Investigation	\$30,000.00/ LS	1	\$30,000
67 RE Office	\$6,000.00/ MON	10	\$60,000
68 Construction Area Sign	\$30,000.00/ LS	1	\$30,000
69 Portable CMS	\$35,000.00/ LS	1	\$35,000
70 CHP/COZEPP	\$30,000.00/ LS	1	\$30,000
71 Public Awareness Campaign	\$10,000.00/ LS	1	\$10,000
72 SWPPP Plan and Implementation	\$100,000.00/ LS	1	\$100,000
CONSTRUCTION SUBTOTAL			\$2,928,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$105,000
CONSTRUCTION SUBTOTAL			\$3,033,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$234,000
CONSTRUCTION SUBTOTAL			\$2,799,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$182,000
CONSTRUCTION SUBTOTAL			\$2,617,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$76,000
CONSTRUCTION SUBTOTAL			\$2,541,000
Right-of-Way	\$75.24 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$2,541,000
Preliminary Project Development (15% of total construction cost)			\$381,000
Design Engineering/Administration Costs (15% of total construction cost)			\$381,000
Construction Engineering Costs/Administration (15% of total construction cost)			\$381,000
Contingency (20% of total construction cost)			\$508,000
TOTAL PROJECT COSTS			\$4,192,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #4, I-5 at Bake Pkwy (SB off ramp)

Date: 6/11/2012

Mitigation: Widen Connector ramps between I-5 and I-405 from 1 to 2 lanes

Originally Estimated by: RBF, PBS&J

Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$216,000
2	Clear & Grub	\$12200 / AC	0.2	\$2,000
3	Earthwork	\$30.00/ CY	900	\$27,000
4	Remove Striping	\$13.00 / LF	800	\$10,000
5	Remove Curb & Gutter	\$36.00 / LF	0	\$0
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00/ SF	0	\$0
8	Remove Excavation (2 ft thick)	\$35.00/ CY	2,000	\$70,000
9	Remove Channel	\$55.00/ LF	300	\$17,000
10	Remove/Replace Chain Link Fence	\$31.00 / LF	300	\$9,000
11	Reconstruct Metal Beam Guard Rail	\$86.00/ LF	80	\$7,000
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	1,600	\$2,000
14	Relocate Street Light	\$5,700.00 / EA	2	\$11,000
15	Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18A	Overhead Sign (2 posts)	\$240,000.00 / EA	2	\$480,000
18B	Overhead Sign (1 post)	\$140,000.00/ EA	1	\$140,000
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement (7 in.)	\$100.00/ SF	1,442	\$144,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$3.00/ LF	3,500	\$11,000
38	Construct AC Dike	\$4.00 / LF	1,100	\$4,000
39	Construct Curb & Gutter	\$19.00 / LF	0	\$0
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45	Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46	Construct Retaining Wall	\$114 / SF	2,000	\$228,000
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$500.00/ CY	47	\$24,000
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	\$120,000.00/ LS	1	\$120,000
54	Construction Area Sign	\$25,000.00/ LS	1	\$25,000
55	Portable CMS	\$30,000.00/ LS	1	\$30,000
56	Remove Pavement Marker	\$2,500.00/ LS	1	\$3,000
57	Remove MBGR	\$20.00/ LF	80	\$2,000
58	Asphalt Concrete Base (8 in.)	\$100.00/ TON	1,442	\$144,000
59	Class 2 Aggregate Base (20 in.)	\$65.00/ CY	2,228	\$145,000
60	Drainage Mobilization	\$5,875.00/ LS	1	\$6,000
61	Pavement Marker	\$5,000.00/ LS	1	\$5,000
62	Temporary Pavement Marker	\$3,000.00/ LS	1	\$3,000
63	Temporary Striping	\$3,000.0000/ LS	1	\$3,000
64	Temporary K-rail	\$19.00/ LF	2,000	\$38,000
65	Temporary Crash Cushion	\$325.00/ EA	5	\$2,000
66	Remove Overhead Signs	\$6,000.00/ EA	2	\$12,000
67	Lead Investigation	\$25,000.00/ LS	1	\$25,000
68	RE Office	\$6,000.00/ MON	6	\$36,000
69	CHP/COZEEP	\$25,000.00/ LS	1	\$25,000
70	Traffic Management Plan	\$30,000.00/ LS	1	\$30,000
71	Public Awareness Campaign	\$10,000.00/ LS	1	\$10,000
72	SWPPP Plan and Implementation	\$90,000.00/ LS	1	\$90,000
	CONSTRUCTION SUBTOTAL			\$2,156,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$78,000
	CONSTRUCTION SUBTOTAL			\$2,234,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$172,000
	CONSTRUCTION SUBTOTAL			\$2,062,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$134,000
	CONSTRUCTION SUBTOTAL			\$1,928,000
	California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$56,000
	CONSTRUCTION SUBTOTAL			\$1,872,000
	Right-of-Way	\$75.24 / SF	0	\$0
	Right-of-Way Management	5%		\$0
	RIGHT-OF-WAY SUBTOTAL			\$0
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$1,872,000
	Preliminary Project Development (15% of total construction cost)			\$281,000
	Design Engineering/Administration Costs (15% of total construction cost)			\$281,000
	Construction Engineering Costs/Administration (15% of total construction cost)			\$281,000
	Contingency (20% of total construction cost)			\$374,000
	TOTAL PROJECT COSTS			\$3,089,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #6. I-5 at El Toro Rd (NB loop on ramp)

Date: 6/11/2012

Mitigation: + Convert HOV preferential lane to a 2nd metered mixed flow lane

Originally Estimated by: RBF

Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$16,000
2 Clear & Grub	\$12200 / AC	0.0	\$0
3 Earthwork	\$46.00 / CY	0	\$0
4 Remove Striping	\$13.00 / LF	600	\$8,000
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00/ SF	0	\$0
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00/ LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	0	\$0
14 Relocate Street Light	\$5,700.00 / EA	0	\$0
15 Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	0	\$0
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	20,200	\$8,000
37 Construct Striping & Marking	\$8.00/ LF	600	\$5,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control Systems	\$30,000.00/ LS	1	\$30,000
54 Remove Pavement Marker	\$4,000.00/ LS	1	\$4,000
55 Pavement Marker	\$4,000.00/ LS	1	\$4,000
56 Temporary Pavement Marker	\$4,000.00/ LS	1	\$4,000
57 Temporary Striping	\$4,000.00/ LS	1	\$4,000
58 Temporary K-rail	\$20.00/ LF	600	\$12,000
59 Temporary Crash Cushion	\$325.00/ EA	5	\$2,000
60 Lead Investigation	\$10,000.00/ LS	1	\$10,000
61 RE Office	\$6,000.00/ MON	1	\$6,000
62 Construction Area Sign	\$10,000.00/ LS	1	\$10,000
63 Portable CMS	\$10,000.00/ LS	1	\$10,000
64 CHP/COZEPP	\$5,000.00/ LS	1	\$5,000
65 Traffic Management Plan	\$5,000.00/ LS	1	\$5,000
66 SWPPP Plan and Implementation	\$20,000.00/ LS	1	\$20,000
CONSTRUCTION SUBTOTAL			\$163,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$6,000
CONSTRUCTION SUBTOTAL			\$169,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$13,000
CONSTRUCTION SUBTOTAL			\$156,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$10,000
CONSTRUCTION SUBTOTAL			\$146,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$4,000
CONSTRUCTION SUBTOTAL			\$142,000
Right-of-Way	\$75.24 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$142,000
Preliminary Project Development (15% of total construction cost)			\$21,000
Design Engineering/Administration Costs (15% of total construction cost)			\$21,000
Construction Engineering Costs/Administration (15% of total construction cost)			\$21,000
Contingency (20% of total construction cost)			\$28,000
TOTAL PROJECT COSTS			\$233,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #7. I-5 at El Toro Rd (SB off ramp)

Date: 6/11/2012

Mitigation: + Add 2nd auxiliary lane from I-5 to the off ramp by restriping mainline

Originally Estimated by: RBF

Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$141,000
2 Clear & Grub	\$12200 / AC	0.0	\$0
3 Earthwork	\$46.00 / CY	0	\$0
4 Remove Striping	\$7.00/ LF	56,500	\$396,000
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00/ SF	0	\$0
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00/ LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	0	\$0
14 Relocate Street Light	\$5,700.00 / EA	0	\$0
15 Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	0	\$0
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$2.50/ LF	56,500	\$141,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	\$100,000.00/ LS	1	\$100,000
54 Remove Pavement Marker	\$100,000.00/ LS	1	\$100,000
55 Temporary Pavement Marker	\$100,000.00/ LS	1	\$100,000
56 Temporary Striping	\$120,000.00/ LS	1	\$120,000
57 Temporary K-rail	\$17.00/ LF	5,800	\$99,000
58 Temporary Crash Cushion	\$325.00/ EA	10	\$3,000
59 Lead Investigation	\$30,000.00/ LS	1	\$30,000
60 RE Office	\$6,000.00/ MON	3	\$18,000
61 Construction Area Sign	\$30,000.00/ LS	1	\$30,000
62 Portable CMS	\$30,000.00/ LS	1	\$30,000
63 CHP/COZEPP	\$25,000.00/ LS	1	\$25,000
64 Traffic Management Plan	\$25,000.00/ LS	1	\$25,000
65 Public Awareness Campaign	\$10,000.00/ LS	1	\$10,000
66 SWPPP Plan and Implementation	\$40,000.00/ LS	1	\$40,000
CONSTRUCTION SUBTOTAL			\$1,408,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$51,000
CONSTRUCTION SUBTOTAL			\$1,459,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$112,000
CONSTRUCTION SUBTOTAL			\$1,347,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$88,000
CONSTRUCTION SUBTOTAL			\$1,259,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$37,000
CONSTRUCTION SUBTOTAL			\$1,222,000
Right-of-Way	\$75.24 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$1,222,000
Preliminary Project Development (15% of total construction cost)			\$183,000
Design Engineering/Administration Costs (15% of total construction cost)			\$183,000
Construction Engineering Costs/Administration (15% of total construction cost)			\$183,000
Contingency (20% of total construction cost)			\$244,000
TOTAL PROJECT COSTS			\$2,015,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #8, I-5 at Jamboree Rd (NB off ramp)
Mitigation: + Add 2nd auxiliary lane from I-5 to the off ramp

Date: 6/11/2012
Originally Estimated by: RBF, PBS&J
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$343,000
2 Clear & Grub	\$12200 / AC	0.5	\$6,000
3 Earthwork	\$46.00 / CY	2,100	\$97,000
4 Remove Striping	\$13.00 / LF	1,500	\$20,000
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8 Remove Excavation (2 ft thick)	\$30.00 / CY	4,885	\$147,000
9 Remove Channel	\$50.00 / LF	1,500	\$75,000
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$96.00 / LF	150	\$13,000
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	1,700	\$2,000
14 Relocate Street Light	\$5,700.00 / EA	6	\$34,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	4	\$3,000
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18A Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
18B Overhead Sign (2 posts)	\$160,000.00 / EA	2	\$320,000
19 Relocate Call Box	\$2,051.00/EA	2	\$4,000
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	4	\$39,000
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$430.00 / CY	93	\$40,000
34 Construct AC Pavement	\$6.00 / SF	37,600	\$226,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$3.80/ LF	4,200	\$16,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	400	\$49,000
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$500.00/CY	63	\$32,000
50 Construct Bridge Widening	\$500.00 / SF	2,000	\$1,000,000
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control Systems	\$200,000.00/ LS	1	\$200,000
54 Remove Pavement Marker	\$4,000.00/ LS	1	\$4,000
55 Remove MBGR	\$17.00/ LF	150	\$3,000
56 Asphalt Concrete Base (8")	\$90.00/ TON	1,504	\$135,000
57 Class 2 Aggregate Base (20")	\$65.00/ CY	2,320	\$151,000
58 Class 2 Aggregate Base (4")	\$65.00/ CY	37	\$2,000
59 Cement Treated Permeable Base (4")	\$140.00/ CY	37	\$5,000
60 Drainage Mobilization	\$29,835.00/ LS	1	\$30,000
61 Pavement Marker	\$3,000.00/ LS	1	\$3,000
62 Temporary Pavement Marker	\$3,000.00/ LS	1	\$3,000
63 Temporary Striping	\$4,000.00/ LS	1	\$4,000
64 Temporary K-rail	\$19.00/ LF	1,700	\$32,000
65 Temporary Crash Cushion	\$325.00/ EA	5	\$2,000
66 Remove Overhead Signs	\$6,000.00/ EA	2	\$12,000
67 Lead Investigation	\$30,000.00/ LS	1	\$30,000
68 Construction Area Sign	\$30,000.00/ LS	1	\$30,000
69 Portable CMS	\$35,000.00/ LS	1	\$35,000
70 CHP/COZEEP	\$30,000.00/ LS	1	\$30,000
71 Traffic Management Plan	\$40,000.00/ LS	1	\$40,000
72 Public Awareness Campaign	\$10,000.00/ LS	1	\$10,000
73 RE Office	\$6,000.00/ MON	10	\$60,000
74 SWPPP Plan and Implementation	\$140,000.00/ LS	1	\$140,000
CONSTRUCTION SUBTOTAL			\$3,427,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$123,000
CONSTRUCTION SUBTOTAL			\$3,550,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$273,000
CONSTRUCTION SUBTOTAL			\$3,277,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$213,000
CONSTRUCTION SUBTOTAL			\$3,064,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$89,000
CONSTRUCTION SUBTOTAL			\$2,975,000
Right-of-Way	\$75.24 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$2,975,000
Preliminary Project Development (15% of total construction cost)			\$446,000
Design Engineering/Administration Costs (15% of total construction cost)			\$446,000
Construction Engineering Costs/Administration (15% of total construction cost)			\$446,000
Contingency (20% of total construction cost)			\$595,000
TOTAL PROJECT COSTS			\$4,908,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #9, I-5 at Jamboree Rd (SB off ramp)
Mitigation: + Add 2nd auxiliary lane from I-5 to the off ramp

Date: 6/11/2012
Originally Estimated by: RBF, PBS&J
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$228,000
2 Clear & Grub	\$12200 / AC	1.0	\$12,000
3 Earthwork	\$46.00 / CY	3,600	\$166,000
4 Remove Striping	\$13.00 / LF	3,500	\$46,000
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8 Remove Excavation (2 ft thick)	\$35.00/ CY	2,585	\$90,000
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00/ LF	370	\$32,000
12 Remove & Relocate Tree	\$1,300.00/ EA	0	\$0
13 Sawcut	\$1.25 / LF	3,500	\$4,000
14 Relocate Street Light	\$5,700.00/ EA	5	\$29,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	4	\$3,000
17 Relocate Sign (1 post)	\$500.00/ EA	3	\$2,000
18A Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
18B Overhead Sign (1 post)	\$160,000.00/ EA	2	\$320,000
19 Relocate Call Box	\$2,051.00/EA	1	\$2,000
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement (10 in)	\$380.00/ CY	190	\$72,000
34 Construct AC Pavement (7 in)	\$85.00/ TON	2,265	\$193,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	19,600	\$8,000
37 Construct Striping & Marking	\$3.80/ LF	7,000	\$27,000
38 Construct AC Dike	\$4.00 / LF	575	\$2,000
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Drainage	\$50,000.00/ LS	1	\$50,000
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	\$145,000.00/ LS	1	\$145,000
54 Remove Pavement Marker	\$7,000.00/ LS	1	\$7,000
55 Remove MBGR	\$15.00/ LF	370	\$6,000
56 Asphalt Concrete Base (8 in)	\$85.00/ TON	2,588	\$220,000
57 Class 2 Aggregate Base (20 in)	\$60.00/ CY	3,994	\$240,000
58 Class 2 Aggregate Base (4 in)	\$60.00/ CY	74	\$4,000
59 Cement Treated Permeable Base (4 in)	\$100.00/ CY	74	\$7,000
60 Pavement Marker	\$20,000.00/ LS	1	\$20,000
61 Temporary Pavement Marker	\$13,000.00/ LS	1	\$13,000
62 Temporary Striping	\$20,000.00/ LS	1	\$20,000
63 Temporary K-rail	\$20.00/ LF	700	\$14,000
64 Temporary Crash Cushion	\$325.00/ EA	5	\$2,000
65 Remove Overhead Signs	\$6,000.00/ EA	2	\$12,000
66 Lead Investigation	\$25,000.00/ LS	1	\$25,000
67 Construction Area Sign	\$28,000.00/ LS	1	\$28,000
68 Portable CMS	\$32,000.00/ LS	1	\$32,000
69 CHP/COZEEP	\$25,000.00/ LS	1	\$25,000
70 Traffic Management Plan	\$30,000.00/ LS	1	\$30,000
71 Public Awareness Campaign	\$10,000.00/ LS	1	\$10,000
72 RE Office	\$6,000.00/ MON	10	\$60,000
73 SWPPP Plan and Implementation	\$90,000.00/ LS	1	\$72,000
CONSTRUCTION SUBTOTAL			\$2,278,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$82,000
CONSTRUCTION SUBTOTAL			\$2,360,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$182,000
CONSTRUCTION SUBTOTAL			\$2,178,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$142,000
CONSTRUCTION SUBTOTAL			\$2,036,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$59,000
CONSTRUCTION SUBTOTAL			\$1,977,000
Right-of-Way	\$75.24 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$1,977,000
Preliminary Project Development (15% of total construction cost)			\$297,000
Design Engineering/Administration Costs (15% of total construction cost)			\$297,000
Construction Engineering Costs/Administration (15% of total construction cost)			\$297,000
Contingency (20% of total construction cost)			\$395,000
TOTAL PROJECT COSTS			\$3,263,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #10. I-5 at Jeffrey Rd (SB on ramp)

Date: 6/11/2012

Mitigation: + Convert HOV preferential lane to a 2nd metered mixed flow lane

Originally Estimated by: RBF

Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$11,000
2 Clear & Grub	\$12200 / AC	0.0	\$0
3 Earthwork	\$46.00 / CY	0	\$0
4 Remove Striping	\$13.00 / LF	300	\$4,000
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00/ SF	0	\$0
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00/ LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	0	\$0
14 Relocate Street Light	\$5,700.00 / EA	0	\$0
15 Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	0	\$0
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	10,800	\$4,000
37 Construct Striping & Marking	\$9.00/ LF	300	\$3,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control Systems	\$25,000.00/ LS	1	\$25,000
54 Remove Pavement Marker	\$2,000.00/ LS	1	\$2,000
55 Pavement Marker	\$2,000.00/ LS	1	\$2,000
56 Temporary Pavement Marker	\$2,000.00/ LS	1	\$2,000
57 Temporary Striping	\$2,000.00/ LS	1	\$2,000
58 Temporary K-rail	\$20.00/ LF	400	\$8,000
59 Temporary Crash Cushion	\$325.00/ EA	5	\$2,000
60 Lead Investigation	\$10,000.00/ LS	1	\$10,000
61 Construction Area Sign	\$10,000.00/ LS	1	\$10,000
62 Portable CMS	\$10,000.00/ LS	1	\$10,000
63 CHP/COZEPP	\$5,000.00/ LS	1	\$5,000
64 Traffic Management Plan	\$5,000.00/ LS	1	\$5,000
65 RE Office	\$6,000.00/ MON	1	\$6,000
66 SWPPP Plan and Implementation	\$15,000.00/ LS	1	\$2,000
CONSTRUCTION SUBTOTAL			\$113,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$4,000
CONSTRUCTION SUBTOTAL			\$117,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$9,000
CONSTRUCTION SUBTOTAL			\$108,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$7,000
CONSTRUCTION SUBTOTAL			\$101,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$3,000
CONSTRUCTION SUBTOTAL			\$98,000
Right-of-Way	\$75.24 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$98,000
Preliminary Project Development (15% of total construction cost)			\$15,000
Design Engineering/Administration Costs (15% of total construction cost)			\$15,000
Construction Engineering Costs/Administration (15% of total construction cost)			\$15,000
Contingency (20% of total construction cost)			\$20,000
TOTAL PROJECT COSTS			\$163,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #11. I-5 at Sand Canyon Ave (NB on ramp)

Date: 6/11/2012

Mitigation: + Convert HOV preferential lane to a 2nd metered mixed flow lane

Originally Estimated by: RBF

Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$38,000
2 Clear & Grub	\$12200 / AC	0.0	\$0
3 Earthwork	\$46.00 / CY	0	\$0
4 Remove Striping	\$13.00 / LF	700	\$9,000
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00/ SF	0	\$0
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	0	\$0
14 Relocate Street Light	\$5,700.00 / EA	0	\$0
15 Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00 / EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	0	\$0
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	23,400	\$9,000
37 Construct Striping & Marking	\$8.00/ LF	700	\$6,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$120,000.00/ LS	1	\$120,000
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control Systems	\$35,000.00/ LS	1	\$35,000
54 Remove Pavement Marker	\$3,500.00/ LS	1	\$4,000
55 Pavement Marker	\$3,500.00/ LS	1	\$4,000
56 Temporary Pavement Marker	\$3,000.00/ LS	1	\$3,000
57 Temporary Striping	\$3,500.00/ LS	1	\$4,000
58 Temporary K-rail	\$20.00/ LF	1,000	\$20,000
59 Temporary Crash Cushion	\$325.00/ EA	5	\$2,000
60 Lead Investigation	\$10,000.00/ LS	1	\$10,000
61 Construction Area Sign	\$20,000.00/ LS	1	\$20,000
62 Portable CMS	\$20,000.00/ LS	1	\$20,000
63 CHP/COZEEP	\$20,000.00/ LS	1	\$20,000
64 Traffic Management Plan	\$25,000.00/ LS	1	\$25,000
65 Public Awareness Campaign	\$10,000.00/ LS	1	\$10,000
66 RE Office	\$6,000.00/ MON	2	\$12,000
67 SWPPP Plan and Implementation	\$15,000.00/ LS	1	\$11,000
CONSTRUCTION SUBTOTAL			\$382,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$14,000
CONSTRUCTION SUBTOTAL			\$396,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$30,000
CONSTRUCTION SUBTOTAL			\$366,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$24,000
CONSTRUCTION SUBTOTAL			\$342,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$10,000
CONSTRUCTION SUBTOTAL			\$332,000
Right-of-Way	\$75.24 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$332,000
Preliminary Project Development (15% of total construction cost)			\$50,000
Design Engineering/Administration Costs (15% of total construction cost)			\$50,000
Construction Engineering Costs/Administration (15% of total construction cost)			\$50,000
Contingency (20% of total construction cost)			\$66,000
TOTAL PROJECT COSTS			\$548,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #13, I-405 at Irvine Center Dr (SB off ramp)
Mitigation: + Add 2nd auxiliary lane from I-405 to the off ramp

Date: 6/11/2012
Originally Estimated by: RBF, PBS&J
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$424,000
2 Clear & Grub	\$12200 / AC	0.9	\$11,000
3 Earthwork	\$46.00 / CY	13,000	\$598,000
4 Remove Striping	\$13.00 / LF	2,000	\$26,000
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8 Remove Pavement	\$5.00 / SF	22,700	\$114,000
9 Remove Channel	\$55.00 / LF	415	\$23,000
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$96.00 / LF	100	\$9,000
12 Remove & Relocate Tree	\$1,300.00 / EA	4	\$5,000
13 Sawcut	\$1.25 / LF	3,300	\$4,000
14 Relocate Street Light	\$5,700.00 / EA	8	\$46,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	1	\$1,000
17 Relocate Sign (1 post)	\$500.00 / EA	8	\$4,000
18A Overhead Sign	\$240,000.00 / EA	0	\$0
18B Overhead Sign (1 post)	\$140,000.00 / EA	2	\$280,000
19 Relocate Call Box	\$2,051.00/EA	2	\$4,000
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement (10 in)	\$500.00/ CY	80	\$40,000
34 Construct AC Pavement	\$100.00/ TON	3,010	\$301,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$3.00/ LF	11,000	\$33,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$450.00/ CY	250	\$113,000
50 Construct Bridge Widening	\$500.00 / SF	1,600	\$800,000
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control System	\$240,000.00/ LS	1	\$240,000
54 Asphalt Concrete Base (8 in)	\$100.00/ TON	3,440	\$344,000
55 Class 2 Aggregate Base (20 in)	\$65.00/ CY	4,250	\$276,000
56 Class 2 Aggregate Base (4 in)	\$65.00/ CY	30	\$2,000
57 Cement Treated Permeable Base (4 in)	\$140.00/ CY	30	\$4,000
58 Drainage Mobilization	\$28,125.00/ LS	1	\$28,000
59 Remove Pavement Marker	\$5,000.00/ LS	1	\$5,000
60 Remove MBGR	\$20.00/ LF	100	\$2,000
61 Pavement Marker	\$20,000.00/ LS	1	\$20,000
62 Temporary Pavement Marker	\$16,000.00/ LS	1	\$16,000
63 Temporary Striping	\$20,000.00/ LS	1	\$20,000
64 Temporary K-rail	\$20,000.00/ LS	1	\$20,000
65 Temporary Crash Cushion	\$325.00/ EA	10	\$3,000
66 Remove Overhead Signs	\$6,000.00/ EA	1	\$6,000
67 Lead Investigation	\$25,000.00/ EA	1	\$25,000
68 RE Office	\$6,000.00/ MON	12	\$72,000
69 Construction Area Sign	\$50,000.00/ LS	1	\$50,000
70 Portable CMS	\$35,000.00/ LS	1	\$35,000
71 CHP/COZEEP	\$30,000.00/ LS	1	\$30,000
72 Traffic Management Plan	\$40,000.00/ LS	1	\$40,000
73 Public Awareness Campaign	\$10,000.00/ LS	1	\$10,000
74 SWPPP Plan & Implementation	\$160,000.00/ LS	1	\$159,000
CONSTRUCTION SUBTOTAL			\$4,243,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$153,000
CONSTRUCTION SUBTOTAL			\$4,396,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$338,000
CONSTRUCTION SUBTOTAL			\$4,058,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$264,000
CONSTRUCTION SUBTOTAL			\$3,794,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$110,000
CONSTRUCTION SUBTOTAL			\$3,684,000
Right-of-Way	\$75.24 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$3,684,000
Preliminary Project Development (15% of total construction cost)			\$553,000
Design Engineering/Administration Costs (15% of total construction cost)			\$553,000
Construction Engineering Costs/Administration (15% of total construction cost)			\$553,000
Contingency (20% of total construction cost)			\$737,000
TOTAL PROJECT COSTS			\$6,080,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #14, I-405 at Jeffrey Rd (NB off ramp)
Mitigation: + Add 2nd auxiliary lane from I-405 to the off ramp

Date: 6/11/2012
Originally Estimated by: RBF
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$378,000
2	Clear & Grub	\$12200 / AC	1.0	\$12,000
3	Earthwork	\$46.00 / CY	8,100	\$373,000
4	Remove Striping	\$13.00 / LF	6,350	\$83,000
5	Remove Curb & Gutter	\$36.00 / LF	0	\$0
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8	Remove Pavement	\$5.00 / SF	46,800	\$234,000
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	80	\$7,000
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	4,700	\$6,000
14	Relocate Street Light	\$5,700.00 / EA	7	\$40,000
15	Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	4	\$3,000
17	Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18A	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
18B	Overhead Sign (1 post)	\$140,000.00 / EA	1	\$140,000
19	Relocate Call Box	\$2,051.00/EA	2	\$4,000
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	1	\$10,000
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement (10 in)	\$400.00/ CY	3,180	\$1,272,000
34	Construct AC Pavement	\$6.00 / SF	0	\$0
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$3.50 / LF	10,600	\$37,000
38	Construct AC Dike	\$4.00 / LF	900	\$4,000
39	Construct Curb & Gutter	\$19.00 / LF	0	\$0
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45	Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	300	\$37,000
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control Systems	\$200,000.00/ LS	1	\$200,000
54	Class 2 Aggregate Base (4 in)	\$75.00/ CY	1,270	\$95,000
55	Cement Treated Permeable Base (4 in)	\$120.00/ CY	1,270	\$152,000
56	Drainage Mobilization	\$11,650.00/ LS	1	\$12,000
57	Remove Pavement Marker	\$14,000.00/ LS	1	\$14,000
58	Remove MBGR	\$22.00/ LF	80	\$2,000
59	Pavement Marker	\$22,000.00/ LS	1	\$22,000
60	Temporary Pavement Marker	\$19,000.00/ LS	1	\$19,000
61	Temporary Striping	\$22,000.00/ LS	1	\$22,000
62	Temporary K-rail	\$19.00/ LF	11,000	\$209,000
63	Temporary Crash Cushion	\$325.00/ EA	10	\$3,000
64	Remove Overhead Signs	\$6,000.00/ EA	1	\$6,000
65	Lead Investigation	\$25,000.00/ LS	1	\$25,000
66	RE Office	\$6,000.00/ MON	10	\$60,000
67	Construction Area Sign	\$35,000.00/ LS	1	\$35,000
68	Portable CMS	\$35,000.00/ LS	1	\$35,000
69	CHP/COZEPP	\$30,000.00/ LS	1	\$30,000
70	Traffic Management Plan	\$40,000.00/ LS	1	\$40,000
71	Public Awareness Campaign	\$10,000.00/ LS	1	\$10,000
72	SWPPP Plan and Implementation	\$150,000.00/ LS	1	\$148,000
	CONSTRUCTION SUBTOTAL			\$3,779,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$136,000
	CONSTRUCTION SUBTOTAL			\$3,915,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$301,000
	CONSTRUCTION SUBTOTAL			\$3,614,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$235,000
	CONSTRUCTION SUBTOTAL			\$3,379,000
	California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$98,000
	CONSTRUCTION SUBTOTAL			\$3,281,000
	Right-of-Way	\$75.24 / SF	0	\$0
	Right-of-Way Management	5%		\$0
	RIGHT-OF-WAY SUBTOTAL			\$0
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$3,281,000
	Preliminary Project Development (15% of total construction cost)			\$492,000
	Design Engineering/Administration Costs (15% of total construction cost)			\$492,000
	Construction Engineering Costs/Administration (15% of total construction cost)			\$492,000
	Contingency (20% of total construction cost)			\$656,000
	TOTAL PROJECT COSTS			\$5,413,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #15. I-405 at Sand Canyon Ave (NB on ramp)

Date: 6/11/2012

Mitigation: + Convert HOV preferential lane to a 2nd metered mixed flow lane

Originally Estimated by: RBF

Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$39,000
2 Clear & Grub	\$12200 / AC	0.0	\$0
3 Earthwork	\$46.00 / CY	0	\$0
4 Remove Striping	\$13.00 / LF	950	\$12,000
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00/ SF	0	\$0
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	0	\$0
14 Relocate Street Light	\$5,700.00 / EA	0	\$0
15 Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00 / EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	0	\$0
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	34,200	\$14,000
37 Construct Striping & Marking	\$8.00/ LF	950	\$8,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$120,000.00/ EA	1	\$120,000
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control Systems	\$35,000.00/ LS	1	\$35,000
54 Remove Pavement Marker	\$4,500.00/ LS	1	\$5,000
55 Pavement Marker	\$4,500.00/ LS	1	\$5,000
56 Temporary Pavement Marker	\$4,000.00/ LS		\$0
57 Temporary Striping	\$4,000.00/ LS		\$0
58 Temporary K-rail	\$20.00/ LF	1,000	\$20,000
59 Temporary Crash Cushion	\$325.00/ EA	5	\$2,000
60 Lead Investigation	\$10,000.00/ EA	1	\$10,000
61 RE Office	\$6,000.00/ MON	2	\$12,000
62 Construction Area Sign	\$20,000.00/ LS	1	\$20,000
63 Portable CMS	\$20,000.00/ LS	1	\$20,000
64 CHP/COZEPP	\$20,000.00/ LS	1	\$20,000
65 Traffic Management Plan	\$25,000.00/ LS	1	\$25,000
66 Public Awareness Campaign	\$10,000.00/ LS	1	\$10,000
67 SWPPP Plan and Implementation	\$15,000.00/ LS	1	\$15,000
CONSTRUCTION SUBTOTAL			\$392,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$14,000
CONSTRUCTION SUBTOTAL			\$406,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$31,000
CONSTRUCTION SUBTOTAL			\$375,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$24,000
CONSTRUCTION SUBTOTAL			\$351,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$10,000
CONSTRUCTION SUBTOTAL			\$341,000
Right-of-Way	\$75.24 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$341,000
Preliminary Project Development (15% of total construction cost)			\$51,000
Design Engineering/Administration Costs (15% of total construction cost)			\$51,000
Construction Engineering Costs/Administration (15% of total construction cost)			\$51,000
Contingency (20% of total construction cost)			\$68,000
TOTAL PROJECT COSTS			\$562,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #16. I-405 at Sand Canyon Ave (SB off ramp)
Mitigation: + Add 2nd auxiliary lane from I-405 to the off ramp

Date: 6/11/2012
Originally Estimated by: RBF
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$347,000
2	Clear & Grub	\$12200 / AC	1.2	\$15,000
3	Earthwork	\$46.00 / CY	4,900	\$225,000
4	Remove Striping	\$13.00 / LF	5,600	\$73,000
5	Remove Curb & Gutter	\$36.00 / LF	0	\$0
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8	Remove Pavement	\$5.00 / SF	49,500	\$248,000
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	165	\$14,000
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	5,000	\$6,000
14	Relocate Street Light	\$5,700.00 / EA	7	\$40,000
15	Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	5	\$4,000
17	Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18A	Overhead Sign (2 posts)	\$240,000.00 / EA	0	\$0
18B	Overhead Sign (1 post)	\$140,000.00 / EA	1	\$140,000
19	Relocate Call Box	\$2,051.00/EA	2	\$4,000
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	1	\$10,000
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$400.00/ CY	3,160	\$1,264,000
34	Construct AC Pavement	\$6.00 / SF	0	\$0
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$3.50/ LF	9,350	\$33,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	0	\$0
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45	Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control Systems	\$170,000.00/ LS	1	\$170,000
54	Class 2 Aggregate Base (4 in)	\$75.00/ CY	1,265	\$95,000
55	Cement Treated Permeable Base (4 in)	\$120.00/ CY	1,265	\$152,000
56	Drainage Mobilization	\$2,500.00/ LS	1	\$3,000
57	Remove Pavement Marker	\$12,000.00/ LS	1	\$12,000
58	Remove MBGR	\$20.00 / LF	165	\$3,000
59	Pavement Marker	\$20,000.00/ LS	1	\$20,000
60	Temporary Pavement Marker	\$16,000.00/ LS	1	\$16,000
61	Temporary Striping	\$20,000.00/ LS	1	\$20,000
62	Temporary K-rail	\$19.00/ LF	10,000	\$190,000
63	Temporary Crash Cushion	\$325.00/ EA	10	\$3,000
64	Lead Investigation	\$25,000.00/ LS	1	\$25,000
65	RE Office	\$6,000.00/ MON	10	\$60,000
66	Construction Area Sign	\$35,000.00/ LS	1	\$35,000
67	Portable CMS	\$30,000.00/ LS	1	\$30,000
68	CHP/COZEEP	\$30,000.00/ LS	1	\$30,000
69	Traffic Management Plan	\$35,000.00/ LS	1	\$35,000
70	Public Awareness Campaign	\$10,000.00/ LS	1	\$10,000
71	SWPPP Plan and Implementation	\$120,000.00/ LS	1	\$135,000
	CONSTRUCTION SUBTOTAL			\$3,467,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$125,000
	CONSTRUCTION SUBTOTAL			\$3,592,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$277,000
	CONSTRUCTION SUBTOTAL			\$3,315,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$215,000
	CONSTRUCTION SUBTOTAL			\$3,100,000
	California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$90,000
	CONSTRUCTION SUBTOTAL			\$3,010,000
	Right-of-Way	\$75.24 / SF	0	\$0
	Right-of-Way Management	5%		\$0
	RIGHT-OF-WAY SUBTOTAL			\$0
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$3,010,000
	Preliminary Project Development (15% of total construction cost)			\$452,000
	Design Engineering/Administration Costs (15% of total construction cost)			\$452,000
	Construction Engineering Costs/Administration (15% of total construction cost)			\$452,000
	Contingency (20% of total construction cost)			\$602,000
	TOTAL PROJECT COSTS			\$4,968,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #17. SR-133 at Barranca Pkwy (SB on ramp)

Date: 6/11/2012

Mitigation: + Convert HOV preferential lane to a 2nd metered mixed flow lane

Originally Estimated by: RBF

Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$23,000
2 Clear & Grub	\$12200 / AC	0.0	\$0
3 Earthwork	\$46.00 / CY	0	\$0
4 Remove Striping	\$13.00 / LF	900	\$12,000
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00/ SF	0	\$0
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00/ LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	0	\$0
14 Relocate Street Light	\$5,700.00 / EA	0	\$0
15 Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	0	\$0
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	32,400	\$13,000
37 Construct Striping & Marking	\$8.00/ LF	900	\$7,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control Systems	\$25,000.00/ LS	1	\$25,000
54 Remove Pavement Marker	\$4,000.00/ LS	1	\$4,000
55 Temporary Striping	\$5,000.00/ LS	1	\$5,000
56 Temporary Pavement Marker	\$50,000.00/ LS	1	\$50,000
57 Temporary K-rail	\$20.00/ LF	900	\$18,000
58 Temporary Crash Cushion	\$325.00/ EA	5	\$2,000
59 RE Office	\$6,000.00/ MON	1	\$6,000
60 Construction Area Sign	\$4,000.00/ LS	1	\$4,000
61 Portable CMS	\$25,000.00/ LS	1	\$25,000
62 CHP/COZEEL	\$5,000.00/ LS	1	\$5,000
63 Traffic Management Plan	\$10,000.00/ LS	1	\$10,000
64 Public Awareness Campaign	\$10,000.00/ LS	1	\$10,000
65 SWPPP Plan and Implementation	\$15,000.00/ LS	1	\$15,000
CONSTRUCTION SUBTOTAL			\$234,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$8,000
CONSTRUCTION SUBTOTAL			\$242,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$19,000
CONSTRUCTION SUBTOTAL			\$223,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$14,000
CONSTRUCTION SUBTOTAL			\$209,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$6,000
CONSTRUCTION SUBTOTAL			\$203,000
Right-of-Way	\$75.24 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$203,000
Preliminary Project Development (15% of total construction cost)			\$30,000
Design Engineering/Administration Costs (15% of total construction cost)			\$30,000
Construction Engineering Costs/Administration (15% of total construction cost)			\$30,000
Contingency (20% of total construction cost)			\$41,000
TOTAL PROJECT COSTS			\$334,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2011 COST ESTIMATES**

#19. SR-133/Trabuco Road Interchange

Mitigation: + Construct Interchange

Date: 12/12/2012

Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	COST
Roadway Items	\$36,046,842
Structure Items	\$14,764,308
Utilities	\$351,663
Subtotal Construction ¹	\$51,162,813
CCI 2010 --> 2010*	\$47,837,230
CCI 2010* --> 2011	\$46,449,950
Right of Way (2011 Value) ²	\$40,719,642
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST	\$87,169,592
Project Development (PSR,PR,ED) 2%	\$814,393
Design Engineering 10% (Roadway, Structures and Utilities)	\$4,644,995
Construction Engineering/Administration 15% (Roadway, Structures and Utilities)	\$6,967,493
PROJECT COSTS (interchange)	\$99,596,473
PROJECT COSTS (PARTIAL - based on actual cost)³	\$413,218
TOTAL PROJECT COSTS	\$100,009,691

1 - Subtotal of Construction costs decreased by 7.7% from 2009.

2 - Right-of-way area reduced from 1,135,645 square feet to 1,118,980 square feet as a result of Trabuco Road right-of-way dedication required by development entitlement and right-of-way dedication maps dated 1/24/11 for the PA 40 Caltrans R/W NITM Agreement. Right-of-way unit cost increased 5% from 2009.

3 - No change to actual cost.

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
FINAL COST ESTIMATE (BASED ON ACTUAL COSTS)**

LOCATION: #19, SR-133/TRABUCO RD INTERCHANGE
MITIGATION: SR-133 SB RAMP

DATE: 6/19/07
ESTIMATED BY: MN, STANTEC

Sukut Item No.	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL
1	MOBILIZATION (2% OF CONST. COST)	1	LS	\$6,287.32	\$6,287.32
2	PAYMENT & PERFORMANCE BONDS (1.5% OF CONST. COST)	1	LS	\$4,715.49	\$4,715.49
3a	DEVELOP CONSTRUCTION WATER (PRO-RATED 6% OF TRABUCO, PA 9A CONTRACT)	1	LS	\$20,250.00	\$20,250.00
5a	CONSTRUCT TRAFFIC CONTROL (PRO-RATED 25% OF TRABUCO, PA 9A CONTRACT)	1	LS	\$20,085.41	\$20,085.41
6	SITE CLEARING AND GRUBBING (PRO-RATED 10% OF CONST. COST)	1	LS	\$8,000.00	\$8,000.00
11	UNCLASSIFIED EXCAVATION	17,600	CY	\$4.50	\$79,200.00
13	UNSUITABLE MATERIAL EXCAVATION AND RECOMPACTION	8,900	CY	\$2.05	\$18,245.00
14	PARKWAY AND SLOPE FINISH (+/-0.2FT)	32,600	SF	\$0.05	\$1,630.00
15 to 17	STORM WATER POLLUTION PREVENTION PLAN (PRO-RATED 18% OF CONST. COST)	1	LS	\$8,103.78	\$8,103.78
18	CONSTRUCT .75' AC OVER .73' AB	39,120	SF	\$2.75	\$107,580.00
19	PREPARE STREET SUBGRADE	39,120	SF	\$0.20	\$7,824.00
21	CONSTRUCT CURB & GUTTER	832	LF	\$7.00	\$5,824.00
23	CONSTRUCT CONCRETE SIDEWALK	275	SF	\$2.00	\$550.00
29	CONSTRUCT 14' LOCAL DEPRESSIONS	1	EA	\$1,500.00	\$1,500.00
30	CONSTRUCT 21' LOCAL DEPRESSIONS	1	EA	\$2,200.00	\$2,200.00
34	SAWCUT & REMOVE EXISTING PAVEMENT & BASE	22,162	SF	\$0.27	\$5,983.74
55	SIGNING & STRIPING (PRO-RATED 16% OF CONST. COST)	1	LS	\$4,000.00	\$4,000.00
63	CONSTRUCT 18" RCP 2000D	124	LF	\$70.00	\$8,680.00
66	CONSTRUCT 24" RCP 2000D	90	LF	\$54.00	\$4,860.00
87	CONSTRUCT 14' CATCH BASIN	1	EA	\$2,800.00	\$2,800.00
88	CONSTRUCT 21' CATCH BASIN	1	EA	\$4,600.00	\$4,600.00
89	CONSTRUCT JUNCTION STRUCTURE TYPE 1	1	EA	\$2,450.00	\$2,450.00
	TOTAL CONSTRUCTION TOTAL				\$325,368.74
	Project Development (2% of Total Const. Cost)				\$6,507.37
	Design Engineering (10% of Total Const. Cost)				\$32,636.87
	Construction Engineering Costs/Administration (15% of Total Const. Cost)				\$48,805.31
	TOTAL PROJECT COSTS				\$413,218.30

Location No. 19 - SR133 / Trabuco Road Interchange

The basis of project limit and cost items are based on preliminary cost estimate and design prepared by RBF Consulting. Portion of the Trabuco Road improvements (west of the SR133) are constructed as part of the AD # 03-19 (CIP # 313140) offsite infrastructure work by Sukut Construction (CONTRACT NO. 1036600).

- 1) Approximately 416 linear foot (street station 168+29 to station 172+45) of Trabuco Road improvements, west of SR133 bridge are within the NITM fee credit limits.
- 2) Construction items, quantities, and unit prices are based on actual costs from Sukut Construction contract (Contract No.1036600). Pro-rated items are items that are lump sum items in the contract, for this NITM fee credit estimate purposes, the items are pro-rated based on % of construction cost.
- 3) Project Development, Design Engineering and Construction Engineering / Administration Costs are based on same % used on the preliminary cost estimate by RBF Consulting.

Source: Cost Estimates from COI - this improvement has been constructed by The Irvine Company
V:\11990-NITM\Part-I Analysis\CostEstimates\CostEstimatesFromCity\SR-133 at Trabuco - Partial.pdf

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #20, SR-241 at Jeffrey Rd

Date: 6/11/2012

Mitigation: + Construct Interchange (Haul Rd Interchange-Diamond concept)

Originally Estimated by: RBF

Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$1,269,000
2 Clear & Grub	\$12200 / AC	1.4	\$17,000
3 Earthwork	\$46.00 / CY	0	\$0
4 Remove Striping	\$13.00 / LF	0	\$0
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8 Remove Pavement (2 ft thick)	\$40.00 / SF	2,393	\$96,000
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	3,230	\$4,000
14 Relocate Street Light	\$5,700.00 / EA	12	\$68,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	2	\$450,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$4,000.00 / EA	1	\$4,000
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	2	\$20,000
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00 / EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement (7 in)	\$90.00 / TON	11,088	\$998,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$2.00 / LF	26,400	\$53,000
38 Construct AC Dike	\$4.00 / LF	8,800	\$35,000
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	12,000	\$1,368,000
47 Construct Storm Drain Main	\$122.00 / LF	600	\$73,000
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Toll Plaza Facility	\$2,000,000.00 / EA	2	\$4,000,000
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$120,000.00 / EA	1	\$120,000
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	\$900,000.00 / LS	1	\$900,000
54 Remove Pavement Marker	\$20,000.00 / LS	1	\$20,000
55 Asphalt Concrete Base (8 in)	\$90.00 / TON	12,672	\$1,140,000
56 Class 2 Aggregate Base (20 in)	\$45.00 / CY	19,555	\$880,000
57 Drainage Mobilization	\$18,300.00 / LS	1	\$18,000
58 Temporary K-rail	\$17.00 / LF	12,000	\$204,000
59 Temporary Crash Cushion	\$325.00 / EA	20	\$7,000
60 Temporary Striping	\$40,000.00 / LS	1	\$40,000
61 Temporary Pavement Marker	\$35,000.00 / LS	1	\$35,000
62 Lead Investigation	\$40,000.00 / LS	1	\$40,000
63 Construction Area Sign	\$70,000.00 / LS	1	\$70,000
64 Portable CMS	\$50,000.00 / LS	2	\$100,000
65 CHP/COZEPP	\$70,000.00 / LS	1	\$70,000
66 Traffic Management Plan	\$100,000.00 / LS	1	\$100,000
67 Public Awareness Campaign	\$25,000.00 / LS	0	\$0
68 RE Office	\$6,000.00 / MON	18	\$108,000
69 SWPPP Plan and Implementation	\$700,000.00 / LS	1	\$492,000
CONSTRUCTION SUBTOTAL			\$12,691,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$457,000
CONSTRUCTION SUBTOTAL			\$13,148,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$1,012,000
CONSTRUCTION SUBTOTAL			\$12,136,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$789,000
CONSTRUCTION SUBTOTAL			\$11,347,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$329,000
CONSTRUCTION SUBTOTAL			\$11,018,000
Right-of-Way	\$75.24 / SF	0	\$0
Right-of-Way Management	5%	0	\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$11,018,000
Preliminary Project Development (15% of total construction cost)			\$1,653,000
Design Engineering/Administration Costs (15% of total construction cost)			\$1,653,000
Construction Engineering Costs/Administration (15% of total construction cost)			\$1,653,000
Contingency (20% of total construction cost)			\$2,204,000
TOTAL PROJECT COSTS			\$18,181,000

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C-4:

Updated 2012 Improvement Costs

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #34. Red Hill Ave at Irvine Blvd
Mitigation: + Apply ATMS

Date: 8/9/2012
Estimated by: City
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
Construction (2003)			\$65,000
California Highway Price Index	74.1%	CCI 2003 --> 2008	\$48,165
2008 CONSTRUCTION SUBTOTAL			\$113,165
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$4,000
CONSTRUCTION SUBTOTAL			\$117,165
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$9,000
CONSTRUCTION SUBTOTAL			\$108,165
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$7,000
CONSTRUCTION SUBTOTAL			\$101,165
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$3,000
CONSTRUCTION SUBTOTAL			\$98,165
California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$9,000
CONSTRUCTION SUBTOTAL			\$107,165
Preliminary Project Development (10% of total Construction cost)			\$11,000
Design Engineering/Administration Costs (15% of total Construction cost)			\$16,000
Construction Engineering Costs/Administration (15% of total Construction cost)			\$16,000
Contingency (20% of total Construction cost)			\$21,000
TOTAL PROJECT COSTS			\$171,165

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #91. Tusting Ranch Rd & Irvine Blvd
Mitigation: + Apply ATMS

Date: 8/9/2012
Estimated by: City
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
Construction (2003)			\$65,000
California Highway Price Index Increase	74.1%	CCI 2003 --> 2008	\$48,165
2008 CONSTRUCTION SUBTOTAL			\$113,165
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$4,000
CONSTRUCTION SUBTOTAL			\$117,165
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$9,000
CONSTRUCTION SUBTOTAL			\$108,165
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$7,000
CONSTRUCTION SUBTOTAL			\$101,165
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$3,000
CONSTRUCTION SUBTOTAL			\$98,165
California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$9,000
CONSTRUCTION SUBTOTAL			\$107,165
Preliminary Project Development (10% of total Construction cost)			\$11,000
Design Engineering/Administration Costs (15% of total Construction cost)			\$16,000
Construction Engineering Costs/Administration (15% of total Construction cost)			\$16,000
Contingency (20% of total Construction cost)			\$21,000
TOTAL PROJECT COSTS			\$171,165

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #123. Jamboree Rd at Tustin Ranch Rd
Mitigation: + Add 3rd NB and SB T lanes

Date: 8/9/2012
Originally Estimated by: RBF
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$2,000
2	Clear & Grub	\$12200 / AC	0.0	\$0
3	Earthwork	\$46.00 / CY	0	\$0
4	Remove Striping	\$13.00 / LF	0.5	\$0
5	Remove Curb & Gutter	\$36.00 / LF	0	\$0
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00/ SF	0	\$0
8	Remove Pavement	\$5.00 / SF	0	\$0
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00/ LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	0	\$0
14	Relocate Street Light	\$5,700.00 / EA	0	\$0
15	Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	0	\$0
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$2.00 / LF	0.5	\$0
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	0	\$0
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45	Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$2,000
54	SWPPP Plan and Implementation	6%	1	\$0
	CONSTRUCTION SUBTOTAL			\$4,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$144
	CONSTRUCTION SUBTOTAL			\$4,144
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$319
	CONSTRUCTION SUBTOTAL			\$3,825
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$249
	CONSTRUCTION SUBTOTAL			\$3,576
	California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$104
	CONSTRUCTION SUBTOTAL			\$3,472
	California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$306
	CONSTRUCTION SUBTOTAL			\$3,778
	Right-of-Way	\$79.00 / SF	0	\$0
	Right-of-Way Management	5%		\$0
	RIGHT-OF-WAY SUBTOTAL			\$0
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$3,778
	Preliminary Project Development (10% of total Construction Cost)			\$1,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$1,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$1,000
	Contingency (20% of total Construction Cost)			\$1,000
	TOTAL PROJECT COSTS			\$7,778

* Notes:

- A. This intersection is a portion of a Segment 2, improvement of Jamboree Rd to six lanes from Portola Pkwy to north of Tustin Ranch Rd.
- B. Only restriping costs are included here. For the remainder of the construction costs, refer to the Segment 2 cost estimate.

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #125. Jamboree Rd at Irvine Blvd
Mitigation: + Convert SB Free RT lane to 4th T lane

Date: 8/9/2012
Originally Estimated by: RBF, PBS&J
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$67,000
2 Clear & Grub	\$12200 / AC	0.2	\$2,000
3 Earthwork	\$46.00 / CY	325	\$15,000
4 Remove Striping	\$13.00 / LF	300	\$4,000
5 Remove Curb & Gutter	\$36.00 / LF	650	\$23,000
6 Remove Median Curb	\$37.00 / LF	100	\$4,000
7 Remove PCC Sidewalk	\$5.00/ SF	4,100	\$21,000
8 Remove Pavement	\$5.00 / SF	600	\$3,000
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00/ LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	2	\$3,000
13 Sawcut	\$1.25 / LF	400	\$1,000
14 Relocate Street Light	\$5,700.00 / EA	2	\$11,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	0.50	\$113,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	2	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	2	\$20,000
22 Relocate Fire Hydrant	\$5,000.00 / EA	2	\$10,000
23 Relocate Bus Bench	\$1,458.00/ EA	1	\$1,000
24 Relocate Monument Wall	\$6,100.00 / EA	1	\$6,000
25 Relocate Utility Boxes	\$895.00 / EA	2	\$2,000
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	2	\$20,000
28 Adjust Manhole to Grade	\$1,500.00 / EA	2	\$3,000
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	2	\$1,000
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	2	\$1,000
32 Modify Driveway	\$6,100.00 / LS	2	\$12,000
33 Construct PCC Pavement	\$7.50 / SF	2,640	\$20,000
34 Construct AC Pavement	\$6.00 / SF	3,780	\$23,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$2.00 / LF	1,000	\$2,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	650	\$12,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	2,000	\$26,000
44 Construct PCC Sidewalk	\$9.05 / SF	4,000	\$36,000
45 Construct Wheelchair Ramp	\$5,200.00 / EA	6	\$31,000
46 Construct Retaining Wall	\$114 / SF	900	\$103,000
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$42,000
54 SWPPP Plan and Implementation	6%	1	\$34,000
CONSTRUCTION SUBTOTAL			\$672,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$24,000
CONSTRUCTION SUBTOTAL			\$696,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$54,000
CONSTRUCTION SUBTOTAL			\$642,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$42,000
CONSTRUCTION SUBTOTAL			\$600,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$17,000
CONSTRUCTION SUBTOTAL			\$583,000
California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$51,000
CONSTRUCTION SUBTOTAL			\$634,000
Right-of-Way	\$38.80 / SF	1,360	\$53,000
Right-of-Way Management	5%		\$3,000
RIGHT-OF-WAY SUBTOTAL			\$56,000
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$690,000
Preliminary Project Development (10% of total Construction Cost)			\$64,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$96,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$96,000
Contingency (20% of total Construction Cost)			\$127,000
TOTAL PROJECT COSTS			\$1,073,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2009 COST ESTIMATES**

9/16/2010

Location: 222. Culver Drive/Trabuco Road

Date: January 2008

Mitigation: Add 3rd NBT, add WB lane to convert WB approach to dual left and right

Actual Bid

Item No.		Item Description	QUANTITY	UNIT	Unit Price	Cost
1	(S)	Traffic Control System	1	LS	\$100,000.00	\$100,000.00
2	(S)	Construction Area Signs	1	LS	\$15,000.00	\$15,000.00
3		Construction Site Management	1	LS	\$5,000.00	\$5,000.00
4		Prepare Water Pollution Control Plan	1	LS	\$1,300.00	\$1,300.00
5		Temporary Fence (Type ESA)	270	LF	\$8.00	\$2,160.00
6		Temporary Erosion Control Blanket	470	SQYD	\$8.00	\$3,760.00
7		Temporary Drainage Inlet Protection	5	EA	\$400.00	\$2,000.00
8		Street Sweeping	1	LS	\$28,000.00	\$28,000.00
9		Temporary Concrete Washout (Portable)	1	LS	\$3,200.00	\$3,200.00
10		Develop Water Supply	1	LS	\$7,000.00	\$7,000.00
11		Lead Compliance Plan	1	LS	\$1,700.00	\$1,700.00
12		Clearing and Grubbing	1	LS	\$21,000.00	\$21,000.00
13		Roadway Excavation	7800	CY	\$25.00	\$195,000.00
14		Roadway Excavation (Type Z-2) (ADL)	320	CY	\$200.00	\$64,000.00
15		Imported Borrow	2700	CY	\$13.00	\$35,100.00
16		Asphalt Concrete (Type A)	720	TON	\$100.00	\$72,000.00
17		Aggregate Base (Class 2)	560	CY	\$90.00	\$50,400.00
18		Slurry Seal Type II	79000	SF	\$0.40	\$31,600.00
19		Remove Concrete Curb & Gutter	1630	LF	\$7.00	\$11,410.00
20		Remove Concrete Sidewalk and Island	12600	SF	\$1.00	\$12,600.00
21		Minor Concrete (Curbs, Gutters, Sidewalks, Curb Ramps, Islands, & Local Depressions)	280	CY	\$300.00	\$84,000.00
22		Reset Survey Monument	1	EA	\$1,800.00	\$1,800.00
23		Remove Drainage Facility	1	LS	\$4,500.00	\$4,500.00
24	(F)	Concrete Structures (Drainage)	30	CY	\$600.00	\$18,000.00
25		Slurry Cement Backfill	2	CY	\$300.00	\$600.00
26		12" Reinforced Concrete Pipe	35	LF	\$140.00	\$4,900.00
27		18" Reinforced Concrete Pipe	20	LF	\$140.00	\$2,800.00
28		24" Reinforced Concrete Pipe	10	LF	\$270.00	\$2,700.00
29		24" Corrugated Steel Pipe	5	LF	\$460.00	\$2,300.00
30		Adjust Manhole to Grade	1	EA	\$540.00	\$540.00
31		Drainage Inlet Marker	4	EA	\$300.00	\$1,200.00
32		Remove Roadside Sign	8	EA	\$50.00	\$400.00
33		Install Sign (Strap and Saddle Bracket Method)	5	EA	\$60.00	\$300.00
34		Roadside Sign (1 post)	8	EA	\$170.00	\$1,360.00
35		Roadside Sign (2 post)	3	EA	\$300.00	\$900.00
36		Furnish Sign	400	SF	\$30.00	\$12,000.00
37	(S)	Remove Striping	1	LS	\$7,000.00	\$7,000.00
38	(S)	Traffic Striping and Pavement Marking	1	LS	\$7,200.00	\$7,200.00
39		Object Marker (Type Q)	5	EA	\$60.00	\$300.00
40		Object Marker (Type K-1)	1	EA	\$60.00	\$60.00
41	(S)	Traffic Signal Modification	1	LS	\$80,000.00	\$80,000.00
42	(S)	Ramp Metering Conduit Installation	1	LS	\$42,000.00	\$42,000.00
43	(S)	Signal Interconnect Conduit Installation (City)	1	LS	\$240,000.00	\$240,000.00
44	(S-F)	Shotcrete	170	CY	\$600.00	\$102,000.00
45		Remove Slope Paving	1	LS	\$13,000.00	\$13,000.00
46		Structure Excavation (Tieback Wall)	330	CY	\$60.00	\$19,800.00
47		Structure Backfill (Tieback Wall)	20	CY	\$600.00	\$12,000.00
48	(S)	Tieback Anchors	180	EA	\$2,500.00	\$450,000.00
49	(F)	Structural Concrete, Retaining Wall	130	CY	\$1,300.00	\$169,000.00
50	(F)	Architectural Treatment (Fractured Fin)	3450	SF	\$11.00	\$37,950.00
51	(S-F)	Bar Reinforcing Steel (Retaining Wall)	41400	LB	\$1.50	\$62,100.00
52	(F)	Furnish Sign Structure (Bridge Mounted without Walkway)	550	LB	\$30.00	\$16,500.00
53	(F)	Install Sign Structure (Bridge Mounted without Walkway)	1	LS	\$12,000.00	\$12,000.00
54		Slope Paving (Concrete)	40	CY	\$600.00	\$24,000.00
55		Minor Concrete (Wall Gutter)	20	CY	\$400.00	\$8,000.00
56	(S)	Cable Railing	440	LF	\$18.00	\$7,920.00
57		Geocomposite Drain	950	SF	\$12.00	\$11,400.00
58	(S)	Highway Planting	1	LS	\$47,000.00	\$47,000.00
59	(S)	Irrigation System	1	LS	\$67,000.00	\$67,000.00
60	(S)	Plant Establishment Work	1	LS	\$12,000.00	\$12,000.00
61		Mobilization	1	LS	\$45,240.00	\$45,240.00
Construction Subtotal						\$2,294,000.00
Preliminary Project Development (Actual Expenditure)						\$173,145.00
Design Engineering/Administration (Actual Expenditure)						\$385,550.00
Right of Way Administration (Actual Expenditure)						\$510.89
Construction Engineering/Administration (15% of Construction Subtotal)						\$ 181,762.00
Construction Contingency (20% of Construction Subtotal)						\$ 156,597.00
Total Project Cost						\$3,191,564.89

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2012 COST ESTIMATES
ENGINEER'S COST ESTIMATE
I-5/CULVER DRIVE INTERCHANGE PROJECT
CITY OF IRVINE PROJECT COST**

LOCATION: #223 - CULVER DRIVE AT I-5 SOUTHBOUND RAMPS
MITIGATION: IMPROVE EB APPROACH TO PROVIDE 3 LEFT-TURN LANES AND 2 RIGHT-TURN LANES

8/9/2012
Revised by: HA

Item No.	Item No.	Item Description	Unit of Measure	Unit Cost	Estimated Quantity	Item Cost
37	153153	Cold Plane Asphalt Concrete Pavement (45 mm Maximum)	m ²	\$11	993.28	\$10,926
38	153214	Remove Concrete Curb	m	\$200	4.096	\$819
39	153218	Remove Concrete Sidewalk	m ³	\$200	12.288	\$2,458
42	190101	Roadway Excavation	m ³	\$35	1751.04	\$61,286
46	198001	Import Borrow	m ³	\$15	919.04	\$13,786
47	198050	Embankment	m ³	\$50	222.72	\$11,136
56	208910A	Extend Irrigation Crossover	LS	\$2,500	Lump Sum	\$640
57	260201	Class 2 Aggregate Base	m ³	\$50	84.48	\$4,224
58	280000	Lean Concrete Base	m ³	\$200	220.9	\$44,180
59	390102	Asphalt Concrete (Type A)	tonne	\$90	320	\$28,800
60	390126	Rubberized Asphalt Concrete (Type G)	tonne	\$125	192	\$24,000
62	401066	Concrete Pavement (Ramp Termini)	m ³	\$300	56.4	\$16,920
64	510512A	1980 x 760 mm Precast Concrete Box Culvert	m	\$1,485	4.76	\$7,069
65 (F)	560218	Furnish Sign Structure (Truss)	kg	\$7.00	2464	\$17,248
66 (S-F)	560219	Install Sign Structure (Truss)	kg	\$1.00	2464	\$2,464
82	731656	Curb Ramp Detectable Warning Surface	m ²	\$500	0.4	\$179
89 (S)	840515	Thermoplastic Pavement Marking	m ²	\$40.00	17	\$666
90 (S)	840561	100 mm Thermoplastic Traffic Stripe	m	\$2.50	645	\$1,613
91	840563	200 mm Thermoplastic Traffic Stripe	m	\$3.00	207	\$622
92	840656	Paint Traffic Stripe (2-Coat)	m	\$2.00	376	\$753
93	850101	Pavement Marker (Non-Reflective)	EA	\$2.50	79	\$198
94	850111	Pavement Marker (Retroreflective)	EA	\$2.50	197	\$493
98	999990	Mobilization	LS	\$250,000	Lump Sum	\$64,000
SUBTOTAL ITEMS						\$314,479
		California Highway Price Index	+3.6%	CCI 2008 --> 2009		\$11,000
CONSTRUCTION SUBTOTAL						\$325,479
		California Highway Price Index	(7.7%)	CCI 2009 --> 2010		-\$25,000
CONSTRUCTION SUBTOTAL						\$300,479
		California Highway Price Index	(6.5%)	CCI 2010 --> 2010*		-\$20,000
CONSTRUCTION SUBTOTAL						\$280,479
		California Highway Price Index	(2.9%)	CCI 2010* --> 2011		-\$8,000
CONSTRUCTION SUBTOTAL						\$272,479
		California Highway Price Index	+8.8%	CCI 2011 --> 2012		\$24,000
CONSTRUCTION SUBTOTAL						\$296,479
SUPPLEMENTAL ITEMS						
99	66070	Maintain Traffic	LS	\$10,000	Lump Sum	\$2,560
103	66610	Partnering	LS	\$5,000	Lump Sum	\$1,280
104	66861	Maintain Existing and Temporary Electrical System	LS	\$10,000	Lump Sum	\$2,560
SUBTOTAL ITEMS						\$6,400
		Contingency (5%)				\$14,824
		Caltrans oversight				\$26,397
SUBTOTAL						\$344,100
		Contingency (10%)*				\$34,410
		Construction Engineering Costs/Administration (5% of total Construction/RW cost)				\$17,205
TOTAL PROJECT COSTS						\$395,715

* Caltrans cooperation agreement states that City obligation could be more than \$363,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #224. Culver Drive & Walnut Ave
Mitigation: + Apply ATMS

Date: 8/9/2012
Estimated by: PM
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
Construction			\$65,000
California Highway Price Index Increase	74.1%	CCI 2003 --> 2008	\$48,165
2008 CONSTRUCTION SUBTOTAL			\$113,165
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$4,000
CONSTRUCTION SUBTOTAL			\$117,165
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$9,000
CONSTRUCTION SUBTOTAL			\$108,165
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$7,000
CONSTRUCTION SUBTOTAL			\$101,165
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$3,000
CONSTRUCTION SUBTOTAL			\$98,165
California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$9,000
CONSTRUCTION SUBTOTAL			\$107,165
Preliminary Project Development (10% of total Construction cost)			\$11,000
Design Engineering/Administration Costs (15% of total Construction cost)			\$16,000
Construction Engineering Costs/Administration (15% of total Construction cost)			\$16,000
Contingency (20% of total Construction cost)			\$21,000
TOTAL PROJECT COSTS			\$171,165

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #235. Culver Dr at University Dr

Date: 8/9/2012

Mitigation: + Convert NB de-Facto RT lane to dual RT lanes

Originally Estimated by: RBF, PBS&J

+ Add EB de-Facto RT lane, SB de-Facto RT lane and 2nd NB & SB LT lanes

Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$270,000
2 Clear & Grub	\$12200 / AC	0.36	\$4,000
3 Earthwork	\$46.00 / CY	4,530	\$208,000
4 Remove Striping	\$13.00 / LF	5,500	\$72,000
5 Remove Curb & Gutter	\$36.00 / LF	2,800	\$101,000
6 Remove Median Curb	\$37.00 / LF	2,150	\$80,000
7 Remove PCC Sidewalk	\$5.00 / SF	12,000	\$60,000
8 Remove Pavement	\$5.00 / SF	12,950	\$65,000
9 Remove Channel	\$19.00 / LF	40	\$1,000
10 Remove/Replace Chain Link Fence	\$31.00 / LF	300	\$9,000
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	86	\$112,000
13 Sawcut	\$1.25 / LF	4,850	\$6,000
14 Relocate Street Light	\$5,700.00 / EA	8	\$46,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	1.00	\$225,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	10	\$2,000
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	2	\$20,000
22 Relocate Fire Hydrant	\$5,000.00 / EA	3	\$15,000
23 Relocate Bus Bench	\$1,458.00/EA	3	\$4,000
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	35	\$31,000
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	2	\$20,000
28 Adjust Manhole to Grade	\$1,500.00 / EA	14	\$21,000
29 Adjust Water Meter	\$610.00 / EA	8	\$5,000
30 Adjust Water Valve	\$610.00 / EA	7	\$4,000
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	10	\$6,000
32 Modify Driveway	\$6,100.00 / LS	3	\$18,000
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	22,300	\$134,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	110,000	\$44,000
37 Construct Striping & Marking	\$2.00 / LF	5,500	\$11,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	2,800	\$53,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	2,150	\$67,000
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	2,800	\$36,000
44 Construct PCC Sidewalk	\$9.05 / SF	12,000	\$109,000
45 Construct Wheelchair Ramp	\$5,200.00 / EA	4	\$21,000
46 Construct Retaining Wall	\$114 / SF	4,000	\$456,000
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	100	\$55,000
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$170,000
54 SWPPP Plan and Implementation	0.06	1	\$137,000
CONSTRUCTION SUBTOTAL			\$2,698,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$97,000
CONSTRUCTION SUBTOTAL			\$2,795,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$215,000
CONSTRUCTION SUBTOTAL			\$2,580,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$168,000
CONSTRUCTION SUBTOTAL			\$2,412,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$70,000
CONSTRUCTION SUBTOTAL			\$2,342,000
California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$206,000
CONSTRUCTION SUBTOTAL			\$2,548,000
Right-of-Way	\$48.63 / SF	5,400	\$263,000
Right-of-Way Management	5%		\$13,000
RIGHT-OF-WAY SUBTOTAL			\$276,000
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$2,824,000
Preliminary Project Development (10% of total Construction Cost)			\$255,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$383,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$383,000
Contingency (20% of total Construction Cost)			\$510,000
TOTAL PROJECT COSTS			\$4,355,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #249. Yale Ave and Irvine Blvd
Mitigation: + Add 2nd SB LT lane

Date: 8/9/2012
Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$212,000
2 Clear & Grub	\$12200 / AC	0.4	\$5,000
3 Earthwork	\$46.00 / CY	7,556	\$348,000
4 Remove Striping	\$13.00 / LF	4,500	\$59,000
5 Remove Curb & Gutter	\$36.00 / LF	2,070	\$75,000
6 Remove Median Curb	\$37.00 / LF	925	\$34,000
7 Remove PCC Sidewalk	\$5.00/ SF	10,350	\$52,000
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00/ LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	21	\$27,000
13 Sawcut	\$1.25 / LF	1,950	\$2,000
14 Relocate Street Light	\$5,700.00 / EA	2	\$11,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	0.75	\$169,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	1	\$1,000
17 Relocate Sign (1 post)	\$220.00 / EA	5	\$1,000
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	4	\$20,000
23 Relocate Bus Bench	\$1,458.00/ EA	1	\$1,000
24 Relocate Monument Wall	\$6,100.00 / EA	1	\$6,000
25 Relocate Utility Boxes	\$895.00 / EA	10	\$9,000
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	5	\$8,000
29 Adjust Water Meter	\$610.00 / EA	1	\$1,000
30 Adjust Water Valve	\$610.00 / EA	1	\$1,000
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	9	\$5,000
32 Modify Driveway	\$6,100.00 / LS	2	\$12,000
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	18,400	\$110,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	52,000	\$21,000
37 Construct Striping & Marking	\$2.00 / LF	6,520	\$13,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	2,070	\$39,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	1,050	\$33,000
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	10,350	\$94,000
45 Construct Wheelchair Ramp	\$5,200.00 / EA	4	\$21,000
46 Construct Retaining Wall	\$114 / SF	4,250	\$485,000
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$133,000
54 SWPPP Plan and Implementation	6%	1	\$108,000
CONSTRUCTION SUBTOTAL			\$2,116,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$76,000
CONSTRUCTION SUBTOTAL			\$2,192,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$169,000
CONSTRUCTION SUBTOTAL			\$2,023,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$131,000
CONSTRUCTION SUBTOTAL			\$1,892,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$55,000
CONSTRUCTION SUBTOTAL			\$1,837,000
California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$162,000
CONSTRUCTION SUBTOTAL			\$1,999,000
Right-of-Way	\$79.00 / SF	18,400	\$1,454,000
Right-of-Way Management	5%		\$73,000
RIGHT-OF-WAY SUBTOTAL			\$1,527,000
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$3,526,000
Preliminary Project Development (10% of total Construction Cost)			\$200,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$300,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$300,000
Contingency (20% of total Construction Cost)			\$400,000
TOTAL PROJECT COSTS			\$4,726,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: 288. Jeffrey Rd & Walnut Avenue/I-5 SB Ramps
Mitigation: Add EB shared 2nd T lane/2nd RT lane

Date: 8/9/2012
Originally Estimated by: RBF
Revised by: HA

	DESCRIPTION OF WORK	COST		
1	Mobilization	\$40,490		
2	Demolition and Removal Work	\$23,495		
3	Roadway Surfacing	\$13,350		
4	Roadway Items	\$28,540		
5	Traffic Signals	\$297,400		
6	Traffic Signing and Striping	\$4,781		
7	Utilities	\$7,700		
8	Landscaping	\$7,600		
9	Miscellaneous	\$22,000		
10	Construction Cost	\$445,400		
	Contingency (25%)	\$111,400		
	Total Construction Cost	\$556,800		
11	Right-of-Way	\$281,550		
12	Design	\$83,500		
13	Construction Management (15%)	\$83,500		
14	Project Cost	\$1,005,350		
15	Preliminary Project Development (actual)	\$126,029		
TOTAL PROJECT COSTS		\$1,131,379		
	California Highway Price Index	\$36,000	+3.6%	CCI 2008 --> 2009
TOTAL PROJECT COSTS		\$1,167,379		
	California Highway Price Index	-\$87,000	(7.7%)	CCI 2009 --> 2010
TOTAL PROJECT COSTS		\$1,080,379		
	California Highway Price Index	-\$76,000	(6.5%)	CCI 2010 --> 2010*
TOTAL PROJECT COSTS		\$1,004,379		
	California Highway Price Index	-\$29,000	(2.9%)	CCI 2010* --> 2011
TOTAL PROJECT COSTS		\$975,379		
	California Highway Price Index	\$86,000	+8.8%	CCI 2011 --> 2012
TOTAL PROJECT COSTS		\$1,061,379		

For detailed cost estimates for each items listed under Description of Costs, refer to cost estimates provided by DMJM Harris/AECOM

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: 289. Jeffret Rd & Irvine Center Dr

Date: 8/9/2012

Mitigation: Add 4th WB lane (2030); and NB through lanes and 3rd SB left-turn lane and convert SB right turn lane to 4th through lane.

Originally Estimated by: RBF
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$342,000
2	Clear & Grub	\$12200 / AC	1.5	\$19,000
3	Earthwork	\$46.00 / CY	5,900.0	\$271,000
4	Remove Striping	\$13.00 / LF	6,134.0	\$80,000
5	Remove Curb & Gutter	\$36.00 / LF	6,200.0	\$223,000
6	Remove Median Curb	\$37.00 / LF	2,000.0	\$74,000
7	Remove PCC Sidewalk	\$5.00 / SF	27,856.0	\$139,000
8	Remove Pavement	\$5.00 / SF	0.0	\$0
9	Remove Channel	\$19.00 / LF	0.0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	680	\$21,000
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	61	\$79,000
13	Sawcut	\$1.25 / LF	6,200	\$8,000
14	Relocate Street Light	\$5,700.00 / EA	14	\$80,000
15	Relocate Traffic Signal System	\$225,000.00 / EA	1.00	\$225,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	1	\$1,000
17	Relocate Sign (1 post)	\$220.00 / EA	6	\$1,000
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	2	\$50,000
21	Relocate Catch Basin	\$9,760.00 / EA	6	\$59,000
22	Relocate Fire Hydrant	\$5,000.00 / EA	4	\$20,000
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	4	\$24,000
25	Relocate Utility Boxes	\$895.00 / EA	26	\$23,000
26	Relocate Main Water Valve	\$12,200.00 / EA	2	\$24,000
27	Relocate Utility Vault	\$10,000 / EA	1	\$10,000
28	Adjust Manhole to Grade	\$1,500.00 / EA	8	\$12,000
29	Adjust Water Meter	\$610.00 / EA	2	\$1,000
30	Adjust Water Valve	\$610.00 / EA	21	\$13,000
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	6	\$4,000
32	Modify Driveway	\$6,100.00 / LS	4	\$24,000
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	67,164	\$403,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	240,500	\$96,000
37	Construct Striping & Marking	\$2.00 / LF	10,964	\$22,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	6,200	\$118,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	2,900	\$90,000
42	Construct Median Concrete	\$7.9 / SF	10,200	\$81,000
43	Construct Median/Parkway Landscaping	\$13.00 / SF	2,760	\$36,000
44	Construct PCC Sidewalk	\$9.05 / SF	27,056	\$245,000
45	Construct Wheelchair Ramp	\$5,200.00 / EA	8	\$42,000
46	Construct Retaining Wall	\$114 / SF	300	\$34,000
46.1	Remove Retaining Wall	\$74.00/SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49(03)	Construct Channel (Earthen)	\$12.2 / LF	750	\$9,000
50(03)	Construct Portable Delineator	\$36.60 / EA	22	\$1,000
49	Construct Concrete V-Ditch	\$19.00/ LF	1,315	\$25,000
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$215,000
54	SWPPP Plan and Implementation	6%	1	\$174,000
	CONSTRUCTION SUBTOTAL			\$3,418,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$123,000
	CONSTRUCTION SUBTOTAL			\$3,541,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$273,000
	CONSTRUCTION SUBTOTAL			\$3,268,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$212,000
	CONSTRUCTION SUBTOTAL			\$3,056,000
	California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$89,000
	CONSTRUCTION SUBTOTAL			\$2,967,000
	California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$261,000
	CONSTRUCTION SUBTOTAL			\$3,228,000
	Right-of-Way	\$79.00 / SF	78,400	\$6,194,000
	Right-of-Way Management	5%		\$310,000
	RIGHT-OF-WAY SUBTOTAL			\$6,504,000
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$9,732,000
	Preliminary Project Development (10% of total Construction Cost)			\$323,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$484,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$484,000
	Contingency (20% of total Construction Cost)			\$646,000
	TOTAL PROJECT COSTS			\$11,669,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #291. Jeffrey Rd at Alton Pkwy

Date: 8/9/2012

Mitigation: + Add 3rd EB T lane, Convert NB free RT lane to standard RT lane
+ Add SB defacto RT lane

Originally Estimated by: RBF
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$63,000
2	Clear & Grub	\$12200 / AC	0.2	\$2,000
3	Earthwork	\$46.00 / CY	1,800	\$83,000
4	Remove Striping	\$13.00 / LF	3,500	\$46,000
5	Remove Curb & Gutter	\$36.00 / LF	1,200	\$43,000
6	Remove Median Curb	\$37.00 / LF	200	\$7,000
7	Remove PCC Sidewalk	\$5.00 / SF	4,000	\$20,000
8	Remove Pavement	\$5.00 / SF	0	\$0
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	13	\$17,000
13	Sawcut	\$1.25 / LF	1,200	\$2,000
14	Relocate Street Light	\$5,700.00 / EA	0	\$0
15	Relocate Traffic Signal System	\$225,000.00 / EA	0.50	\$113,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	3	\$1,000
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	1	\$10,000
22	Relocate Fire Hydrant	\$5,000.00 / EA	1	\$5,000
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	1	\$1,000
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	1	\$2,000
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	3	\$2,000
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	6,300	\$38,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	18,800	\$8,000
37	Construct Striping & Marking	\$2.00 / LF	4,300	\$9,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	1,200	\$23,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	2,400	\$31,000
44	Construct PCC Sidewalk	\$9.05 / SF	3,000	\$27,000
45	Construct Wheelchair Ramp	\$5,200.00 / EA	1	\$5,000
46	Construct Retaining Wall	\$114 / SF	0	\$0
46.1	Remove Retaining Wall	\$74.00 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$40,000
54	SWPPP Plan and Implementation	6%	1	\$32,000
	CONSTRUCTION SUBTOTAL			\$630,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$23,000
	CONSTRUCTION SUBTOTAL			\$653,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$50,000
	CONSTRUCTION SUBTOTAL			\$603,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$39,000
	CONSTRUCTION SUBTOTAL			\$564,000
	California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$16,000
	CONSTRUCTION SUBTOTAL			\$548,000
	California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$48,000
	CONSTRUCTION SUBTOTAL			\$596,000
	Right-of-Way	\$79.00 / SF	4,000	\$316,000
	Right-of-Way Management	5%		\$16,000
	RIGHT-OF-WAY SUBTOTAL			\$332,000
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$928,000
	Preliminary Project Development (10% of total Construction Cost)			\$60,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$90,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$90,000
	Contingency (20% of total Construction Cost)			\$120,000
	TOTAL PROJECT COSTS			\$1,288,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
FINAL COST ESTIMATE (BASED ON ACTUAL COSTS)**

10.21.08

LOCATION: #302, SAND CANYON AVE. AT TRABUCO RD.
MITIGATION: CONVERT EB RT LANE TO FREE RT LANE.

DATE: 9/17/2010
ESTIMATED BY: PM

Sully Miller Item No.	Sukut Item No.	DESCRIPTION OF WORK	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL
1		MOBILIZATION (2% OF CONST. COST)	1	LS	\$6,024.00	\$6,024.00
2		PAYMENT AND PERFORMANCE BONDS (1.5% OF CONST. COST)	1	LS	\$4,518.00	\$4,518.00
3		DEVELOP CONSTRUCTION WATER (PRO-RATED 20% OF CONST. COST)	1	LS	\$10,000.00	\$10,000.00
4 & CO #2		TRAFFIC CONTROL (PRO-RATED 11% OF CONST. COST)	1	LS	\$20,000.00	\$20,000.00
6		CLEAR & GRUB (PRO-RATED 40% OF CONST. COST)	1	LS	\$8,000.00	\$8,000.00
	11	UNCLASSIFIED EXCAVATION	5,300	CY	\$4.50	\$23,850.00
	13	UNSUITABLE MATERIAL EXCAVATION AND RECOMPACTION	5,300	CY	\$2.05	\$10,865.00
13		PARKWAY AND SLOPE FINISH (+/- 0.2 FT.)	42,200	SF	\$0.16	\$6,752.00
14 to 16		SWPPP PLAN AND IMPLEMENTATION (PRO-RATED 7% OF CONT)	1	LS	\$14,887.82	\$14,887.82
17		PREPARE STREET SUBGRADE	23,900	SF	\$0.25	\$5,975.00
20A		CONSTRUCT AGGREGATE BASE	23,900	SF	\$0.90	\$21,510.00
23A		CONSTRUCT AC PAVEMENT	23,900	SF	\$1.50	\$35,850.00
29		CONSTRUCT MEDIAN CURB	235	LF	\$11.00	\$2,585.00
30		CONSTRUCT CURB & GUTTER	1,205	LF	\$13.00	\$15,665.00
35		CONSTRUCT WHEELCHAIR RAMP	4	EA	\$550.00	\$2,200.00
36		CONSTRUCT DETECTABLE WARNING SURFACE FOR ACCESS RAMP	4	EA	\$600.00	\$2,400.00
40		CONSTRUCT SUB TURNOUT	960	SF	\$10.28	\$9,868.80
51		REMOVE EXISTING PAVEMENT & SAWCUT	1,050	SF	\$0.50	\$525.00
59		REMOVE CURB & GUTTER	130	LF	\$1.80	\$234.00
65		REMOVE EXISTING A.C. RAMP & PAVEMENT	1	EA	\$350.00	\$350.00
69 & 70		CONSTRUCT STRIPING & MARKING (PRO-RATED 6.5% OF CONST. COST)	1	LS	\$3,917.55	\$3,917.55
79		CONSTRUCT MEDIAN CONCRETE	2,075	SF	\$5.60	\$11,620.00
79		CONSTRUCT PCC SIDEWALK	5,300	SF	\$5.60	\$29,680.00
84		RELOCATE TRAFFIC SIGNAL SYSTEM	0.25	EA	\$243,600.00	\$60,900.00
147 New CO #3		RELOCATE FIRE HYDRANT	1	EA	\$3,565.00	\$3,565.00
		TOTAL CONSTRUCTION COST				\$311,742.18
CCI 2008 --> 2009		California Highway Price Index	+3.6%			\$11,000.00
		CONSTRUCTION SUBTOTAL				\$322,742.18
CCI 2009 --> 2010		California Highway Price Index	(7.7%)			-\$25,000.00
		CONSTRUCTION SUBTOTAL				\$297,742.18
		Preliminary Project Development (10% of total Construction Cost)				\$29,774.22
		Design Engineering/Administration Costs (15% of total Construction Cost)				\$44,661.33
		Construction Engineering Costs/Administration (15% of total Construction Cost)				\$44,661.33
		TOTAL PROJECT COSTS				\$416,839.05

Location No. 302, Sand Canyon Ave. at Trabuco Road.

The basis of project limit and cost items are based on preliminary cost estimate and design prepared by RBF Consulting, dated 2/13/2003.

Portion of the Trabuco Road Improvements (west of the Sand Canyon intersection) are constructed as part of the AD # 03-19 (CIP # 31, 3140) offsite infrastructure work by Sukut Construction (Contract No. 1036600). Portion of the Sand Canyon improvements including the traffic signal relocation are constructed as part of the AD #03-19 (CIP #314,900) offsite infrastructure work by Sully-Miller Contracting (Contract No. 1043500)

- 1) Approximately 515 linear foot (street station 156+15 to station 161+30) of right turn lane as part of Trabuco Road improvements, west of Sand Canyon intersection are within the NITM fee credit limits.
- 2) Approximately 770 linear foot (street station 45+00 to station 52+70) of free right turn lane transition lane as part of Sand Canyon improvements, south of Trabuco Road intersection are within the NITM fee credit limits. Sand Canyon Avenue improvements included the free right turn median island and traffic signal modification work.
- 3) Construction items, quantities, and unit prices are based on actual costs from Sukut Construction and Sully Miller contracts. Pro-rated items are items that are lump sum items in the contracts, for this NITM fee credit estimate purposes, the items are prorated based on % of construction cost.
- 4) Preliminary Project Development, Design Engineering and Construction Engineering / Administration Costs are based on same % used on the preliminary cost estimate by RBF consulting.

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #303. Sand Canyon Ave at I-5 NB ramps/Marine Wy
Mitigation: + Add 3rd NB & SB T lanes, improve EB approach to provide 2 LT lanes
+ 1 T lane & 1 RT lane, Restripe WB approach to provide 1 LT lane, 1.5 T lanes & 1.5 RT lanes

Date: 8/9/2012
Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$206,000
2 Clear & Grub	\$12200 / AC	1.0	\$12,000
3 Earthwork	\$46.00 / CY	5,300	\$244,000
4 Remove Striping	\$13.00 / LF	2,100	\$27,000
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00/ SF	0	\$0
8 Remove Pavement	\$5.00 / SF	2,900	\$15,000
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Bean Guard Rail	\$86.00/ LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	6	\$8,000
13 Sawcut	\$1.25 / LF	2,900	\$4,000
14 Relocate Street Light	\$5,700.00 / EA	1	\$6,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	1.50	\$338,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	2	\$1,000
17 Relocate Sign (1 post)	\$220.00 / EA	1	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	1	\$25,000
21 Relocate Catch Basin	\$9,760.00 / EA	2	\$20,000
22 Relocate Fire Hydrant	\$5,000.00 / EA	1	\$5,000
23 Relocate Bus Bench	\$1,458.00 / EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	10	\$9,000
26 Relocate Main Water Valve	\$12,200.00 / EA	1	\$12,000
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	2	\$3,000
29 Adjust Water Meter	\$610.00 / EA	2	\$1,000
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	7	\$4,000
32 Modify Driveway	\$6,100.00 / LS	1	\$6,000
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	62,120	\$373,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	60,500	\$24,000
37 Construct Striping & Marking	\$2.00 / LF	4,650	\$9,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	2,210	\$42,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	150	\$5,000
42 Construct Median Concrete	\$7.9 / SF	1,250	\$10,000
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	12,400	\$112,000
45 Construct Wheelchair Ramp	\$5,200.00 / EA	6	\$31,000
46 Construct Retaining Wall	\$114 / SF	2,300	\$262,000
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00/ LF	400	\$8,000
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$129,000
54 SWPPP Plan and Implementation	6%	1	\$105,000
CONSTRUCTION SUBTOTAL			\$2,056,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$74,000
CONSTRUCTION SUBTOTAL			\$2,130,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$164,000
CONSTRUCTION SUBTOTAL			\$1,966,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$128,000
CONSTRUCTION SUBTOTAL			\$1,838,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$53,000
CONSTRUCTION SUBTOTAL			\$1,785,000
California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$157,000
CONSTRUCTION SUBTOTAL			\$1,942,000
Right-of-Way	\$79.00 / SF	1,600	\$126,000
Right-of-Way Management	5%		\$6,000
RIGHT-OF-WAY SUBTOTAL			\$132,000
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$2,074,000
Preliminary Project Development (10% of total Construction Cost)			\$195,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$292,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$292,000
Contingency (20% of total Construction Cost)			\$389,000
TOTAL PROJECT COSTS			\$3,242,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #305, Sand Canyon Ave at I-5 SB ramps
Mitigation: + Add 3rd NB & SB T lanes

Date: 8/9/2012
Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$111,000
2 Clear & Grub	\$12200 / AC	0.3	\$4,000
3 Earthwork	\$46.00 / CY	1,020	\$47,000
4 Remove Striping	\$13.00 / LF	2,480	\$32,000
5 Remove Curb & Gutter	\$36.00 / LF	1,140	\$41,000
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	10,900	\$55,000
8 Remove Pavement	\$5.00 / SF	1,140	\$6,000
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	130	\$4,000
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	1,140	\$1,000
14 Relocate Street Light	\$5,700.00 / EA	0	\$0
15 Relocate Traffic Signal System	\$225,000.00 / EA	1.00	\$225,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	8	\$6,000
17 Relocate Sign (1 post)	\$220.00 / EA	1	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	5	\$49,000
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	1	\$6,000
25 Relocate Utility Boxes	\$895.00 / EA	21	\$19,000
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	5	\$8,000
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	5	\$3,000
32 Modify Driveway	\$6,100.00 / LS	1	\$6,000
33 Construct PCC Pavement	\$7.50 / SF	250	\$2,000
34 Construct AC Pavement	\$6.00 / SF	21,000	\$126,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	31,500	\$13,000
37 Construct Striping & Marking	\$2.00 / LF	2,390	\$5,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	1,140	\$22,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	4,000	\$52,000
44 Construct PCC Sidewalk	\$9.05 / SF	10,500	\$95,000
45 Construct Wheelchair Ramp	\$5,200.00 / EA	8	\$42,000
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$70,000
54 SWPPP Plan and Implementation	6%	1	\$56,000
CONSTRUCTION SUBTOTAL			\$1,106,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$40,000
CONSTRUCTION SUBTOTAL			\$1,146,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$88,000
CONSTRUCTION SUBTOTAL			\$1,058,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$69,000
CONSTRUCTION SUBTOTAL			\$989,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$29,000
CONSTRUCTION SUBTOTAL			\$960,000
California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$84,000
CONSTRUCTION SUBTOTAL			\$1,044,000
Right-of-Way	\$79.00 / SF	3,000	\$237,000
Right-of-Way Management	5%		\$12,000
RIGHT-OF-WAY SUBTOTAL			\$249,000
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$1,293,000
Preliminary Project Development (10% of total Construction Cost)			\$105,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$157,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$157,000
Contingency (20% of total Construction Cost)			\$209,000
TOTAL PROJECT COSTS			\$1,921,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: 306. Sand Canyon Ave & Oak Canyon/Laguna Canyon Rd
Mitigation: Part 1 - Add WB approach lane to provide 2 left-turn lanes
1.5 through lanes and 1.5 right-turn lanes

Date: 8/9/2012
Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	0	\$64,000
2 Clear & Grub	\$12200 / AC	0.3	\$3,000
3 Earthwork	\$46.00 / CY	0	\$0
4 Remove Striping	\$13.00 / LF	440	\$6,000
5 Remove Curb & Gutter	\$36.00 / LF	1,570	\$57,000
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	12,560	\$63,000
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	22	\$29,000
13 Sawcut	\$1.25 / LF	0	\$0
14 Relocate Street Light	\$5,700.00 / EA	6	\$34,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	0.50	\$113,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	1	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	4	\$20,000
23 Relocate Bus Bench	\$1,458.00 / EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	1	\$6,000
25 Relocate Utility Boxes	\$895.00 / EA	7	\$6,000
26 Relocate Main Water Valve	\$12,200.00 / EA	1	\$12,000
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	2	\$3,000
29 Adjust Water Meter	\$610.00 / EA	1	\$1,000
30 Adjust Water Valve	\$610.00 / EA	16	\$10,000
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	1	\$6,000
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	8,140	\$49,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$2.00 / LF	1,172	\$2,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	1,570	\$30,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	12,560	\$114,000
45 Construct Wheelchair Ramp	\$5,200.00 / EA	2	\$10,000
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)		\$2,000
54 SWPPP Plan and Implementation	6%		\$0
CONSTRUCTION SUBTOTAL			\$640,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$23,000
CONSTRUCTION SUBTOTAL			\$663,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$51,000
CONSTRUCTION SUBTOTAL			\$612,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$40,000
CONSTRUCTION SUBTOTAL			\$572,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$17,000
CONSTRUCTION SUBTOTAL			\$555,000
California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$49,000
CONSTRUCTION SUBTOTAL			\$604,000
Right-of-Way	\$79.00 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$604,000
Preliminary Project Development (10% of total Construction Cost)			\$61,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$91,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$91,000
Contingency (20% of total Construction Cost)			\$121,000
TOTAL PROJECT COSTS			\$968,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #310. Sand Canyon Ave at Alton Pkwy
Mitigation: + Add 2nd NB RT lane

Date: 8/9/2012
Originally Estimated by: RBF
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$21,000
2	Clear & Grub	\$12200 / AC	0.0	\$0
3	Earthwork	\$46.00 / CY	50	\$2,000
4	Remove Striping	\$13.00 / LF	200	\$3,000
5	Remove Curb & Gutter	\$36.00 / LF	200	\$7,000
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00/ SF	1,300	\$7,000
8	Remove Pavement	\$5.00 / SF	0	\$0
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00/ LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	2	\$3,000
13	Sawcut	\$1.25 / LF	200	\$0
14	Relocate Street Light	\$5,700.00 / EA	1	\$6,000
15	Relocate Traffic Signal System	\$225,000.00 / EA	0.50	\$113,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	400	\$2,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$2.00 / LF	400	\$1,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	200	\$4,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	1,300	\$12,000
45	Construct Wheelchair Ramp	\$5,200.00 / EA	1	\$5,000
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$13,000
54	SWPPP Plan and Implementation	6%	1	\$11,000
	CONSTRUCTION SUBTOTAL			\$210,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$8,000
	CONSTRUCTION SUBTOTAL			\$218,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$17,000
	CONSTRUCTION SUBTOTAL			\$201,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$13,000
	CONSTRUCTION SUBTOTAL			\$188,000
	California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$5,000
	CONSTRUCTION SUBTOTAL			\$183,000
	California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$16,000
	CONSTRUCTION SUBTOTAL			\$199,000
	Right-of-Way	\$79.00 / SF	350	\$28,000
	Right-of-Way Management	5%		\$1,000
	RIGHT-OF-WAY SUBTOTAL			\$29,000
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$228,000
	Preliminary Project Development (10% of total Construction Cost)			\$20,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$30,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$30,000
	Contingency (20% of total Construction Cost)			\$40,000
	TOTAL PROJECT COSTS			\$348,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #311. Sand Canyon Ave at I-405 NB ramps

Date: 8/9/2012

Mitigation: + Improve WB approach to provide a LT lane, a RT lane,
and a free RT lane

Originally Estimated by: RBF
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$67,000
2	Clear & Grub	\$12200 / AC	0.4	\$5,000
3	Earthwork	\$46.00 / CY	2,050	\$94,000
4	Remove Striping	\$13.00 / LF	300	\$4,000
5	Remove Curb & Gutter	\$36.00 / LF	400	\$14,000
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00 / SF	2,400	\$12,000
8	Remove Pavement	\$5.00 / SF	0	\$0
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	350	\$11,000
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	700	\$1,000
14	Relocate Street Light	\$5,700.00 / EA	1	\$6,000
15	Relocate Traffic Signal System	\$225,000.00 / EA	0.33	\$74,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	4	\$3,000
17	Relocate Sign (1 post)	\$220.00 / EA	4	\$1,000
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	1	\$10,000
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	3	\$3,000
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	2	\$3,000
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	1	\$1,000
32	Relocate Drainage Inlet	\$1,830.00 / EA	1	\$2,000
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	14,000	\$84,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$2.00 / LF	700	\$1,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	400	\$8,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	185	\$6,000
42	Construct Median Concrete	\$7.9 / SF	2,500	\$20,000
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	2,400	\$22,000
45	Construct Wheelchair Ramp	\$5,200.00 / EA	3	\$16,000
46	Construct Retaining Wall	\$114 / SF	920	\$105,000
47	Construct Storm Drain Main	\$122.00 / LF	100	\$12,000
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00 / LF	380	\$7,000
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$42,000
54	SWPPP Plan and Implementation	6%	1	\$34,000
	CONSTRUCTION SUBTOTAL			\$668,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$24,000
	CONSTRUCTION SUBTOTAL			\$692,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$53,000
	CONSTRUCTION SUBTOTAL			\$639,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$42,000
	CONSTRUCTION SUBTOTAL			\$597,000
	California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$17,000
	CONSTRUCTION SUBTOTAL			\$580,000
	California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$51,000
	CONSTRUCTION SUBTOTAL			\$631,000
	Right-of-Way	\$79.00 / SF	2,550	\$201,000
	Right-of-Way Management	5%		\$10,000
	RIGHT-OF-WAY SUBTOTAL			\$211,000
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$842,000
	Preliminary Project Development (10% of total Construction Cost)			\$64,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$95,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$95,000
	Contingency (20% of total Construction Cost)			\$127,000
	TOTAL PROJECT COSTS			\$1,223,000

Item differs from other cost estimate sheets

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2010 COST ESTIMATES**

Location: #321. Laguna Canyon Rd at Old Laguna Canyon Rd
Mitigation: + Add 3rd NB LT lane, 3rd NB T lane, and 3rd SB T lane

Date: 9/17/2010
Originally Estimated by: RBF
Revised by: PM

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$131,000
2	Clear & Grub	\$12200 / AC	1.0	\$12,000
3	Earthwork	\$46.00 / CY	4,000	\$184,000
4	Remove Striping	\$13.00 / LF	5,000	\$65,000
5	Remove Curb & Gutter	\$36.00 / LF	2,350	\$85,000
6	Remove Median Curb	\$37.00 / LF	1,200	\$44,000
7	Remove PCC Sidewalk	\$5.00/ SF	2,100	\$11,000
8	Remove Pavement	\$5.00 / SF	6,500	\$33,000
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00/ LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	2,150	\$3,000
14	Relocate Street Light	\$5,700.00 / EA	0	\$0
15	Relocate Traffic Signal System	\$225,000.00 / EA	0.75	\$169,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	5	\$1,000
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	17	\$166,000
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	19,200	\$115,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$2.00 / LF	5,850	\$12,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	2,400	\$46,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	1,400	\$43,000
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	2,100	\$19,000
45	Construct Wheelchair Ramp	\$5,200.00 / EA	4	\$21,000
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$82,000
54	SWPPP Plan and Implementation	6%	1	\$67,000
CONSTRUCTION SUBTOTAL				\$1,309,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$47,000
CONSTRUCTION SUBTOTAL				\$1,356,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$104,000
CONSTRUCTION SUBTOTAL				\$1,252,000
	Right-of-Way	\$71.66 / SF	0	\$0
	Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL				\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST				\$1,252,000
Preliminary Project Development (10% of total Construction Cost)				\$126,000
Design Engineering/Administration Costs (15% of total Construction Cost)				\$188,000
Construction Engineering Costs/Administration (15% of total Construction Cost)				\$188,000
Contingency (20% of total Construction Cost)				\$251,000
TOTAL PROJECT COSTS				\$2,005,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #338. Alton Pkwy at Irvine Blvd (LOS E)

Date: 8/9/2012

Mitigation: + Stripe EB approach to provide 2.5 LT lanes, 2.5 T lanes
and 1 RT lane

Originally Estimated by: RBF

Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$2,000
2	Clear & Grub	\$12200 / AC	0.0	\$0
3	Earthwork	\$46.00 / CY	0	\$0
4	Remove Striping	\$13.00 / LF	400	\$5,000
5	Remove Curb & Gutter	\$36.00 / LF	0	\$0
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8	Remove Pavement	\$5.00 / SF	0	\$0
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	0	\$0
14	Relocate Street Light	\$5,700.00 / EA	0	\$0
15	Relocate Traffic Signal System	\$225,000.00 / EA	0.00	\$0
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	1	\$0
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	0	\$0
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$2.00 / LF	800	\$2,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	0	\$0
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45	Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$2,000
54	SWPPP Plan and Implementation	6%	0	\$0
	CONSTRUCTION SUBTOTAL			\$11,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$396
	CONSTRUCTION SUBTOTAL			\$11,396
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$1,000
	CONSTRUCTION SUBTOTAL			\$10,396
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$1,000
	CONSTRUCTION SUBTOTAL			\$9,396
	California Highway Price Index	(2.9%)	CCI 2010* --> 2011	\$0
	CONSTRUCTION SUBTOTAL			\$9,396
	California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$1,000
	CONSTRUCTION SUBTOTAL			\$10,396
	Right-of-Way	\$79.00 / SF	0	\$0
	Right-of-Way Management	5%		\$0
	RIGHT-OF-WAY SUBTOTAL			\$0
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$10,396
	Preliminary Project Development (10% of total Construction Cost)			\$2,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$2,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$2,000
	Contingency (20% of total Construction Cost)			\$3,000
	TOTAL PROJECT COSTS			\$19,396

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #338. Alton Pkwy at Irvine Blvd (LOS D)
Mitigation: + Add 4th WB T lane and 3rd EB LT lane

Date: 8/9/2012
Originally Estimated by: RBF
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$278,000
2	Clear & Grub	\$12200 / AC	5	\$61,000
3	Earthwork	\$46.00 / CY	9,000	\$414,000
4	Remove Striping	\$13.00 / LF	6,200	\$81,000
5	Remove Curb & Gutter	\$36.00 / LF	2,900	\$104,000
6	Remove Median Curb	\$37.00 / LF	400	\$15,000
7	Remove PCC Sidewalk	\$5.00 / SF	23,300	\$117,000
8	Remove Pavement	\$5.00 / SF	3,900	\$20,000
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	6,200	\$8,000
14	Relocate Street Light	\$5,700.00 / EA	10	\$57,000
15	Relocate Traffic Signal System	\$225,000.00 / EA	1	\$225,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	1	\$0
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	3	\$18,000
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	103,400	\$620,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$2.00 / LF	6,200	\$12,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	2,900	\$55,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	3,600	\$28,000
43	Construct Median/Parkway Landscaping	\$13.00 / SF	11,600	\$151,000
44	Construct PCC Sidewalk	\$9.05 / SF	14,500	\$131,000
45	Construct Wheelchair Ramp	\$5,200.00 / EA	4	\$21,000
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$50,000
49	Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$175,000
54	SWPPP Plan and Implementation	6%	1	\$142,000
CONSTRUCTION SUBTOTAL				\$2,783,000
CONSTRUCTION SUBTOTAL (TMSOS ALLOWANCE)				\$2,783,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$100,000
CONSTRUCTION SUBTOTAL				\$2,883,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$222,000
CONSTRUCTION SUBTOTAL				\$2,661,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$173,000
CONSTRUCTION SUBTOTAL				\$2,488,000
	California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$72,000
CONSTRUCTION SUBTOTAL				\$2,416,000
	California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$213,000
CONSTRUCTION SUBTOTAL				\$2,629,000

Item differs from other cost estimate sheets

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #345, Alton Pkwy at I-5 NB ramps

Date: 8/9/2012

Mitigation: + Restripe WB approach to provide 2.5 LT lanes and 0.5 RT lanes

Originally Estimated by: RBF

Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$2,000
2 Clear & Grub	\$12200 / AC	0.0	\$0
3 Earthwork	\$46.00 / CY	0	\$0
4 Remove Striping	\$13.00 / LF	350	\$5,000
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	0	\$0
14 Relocate Street Light	\$5,700.00 / EA	0	\$0
15 Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	0	\$0
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	16,800	\$7,000
37 Construct Striping & Marking	\$2.00 / LF	350	\$1,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$2,000
54 SWPPP Plan and Implementation	6%	0	\$0
CONSTRUCTION SUBTOTAL			\$17,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$1,000
CONSTRUCTION SUBTOTAL			\$18,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$1,000
CONSTRUCTION SUBTOTAL			\$17,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$1,000
CONSTRUCTION SUBTOTAL			\$16,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	\$0
CONSTRUCTION SUBTOTAL			\$16,000
California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$1,000
CONSTRUCTION SUBTOTAL			\$17,000
Right-of-Way	\$79.00 / SF	0	\$0
Right-of-Way Management	5%		\$0
2008 RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$17,000
Preliminary Project Development (10% of total Construction Cost)			\$2,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$3,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$3,000
Contingency (20% of total Construction Cost)			\$4,000
TOTAL PROJECT COSTS			\$29,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #362, Bake Pkwy at Irvine Blvd (Alt2)

Date: 8/9/2012

Mitigation: + Convert WB RT lane to shared 4th T/RT lane. Add 2nd NB LT lanes
+ Restripe EB to provide 2 LT lanes, 2.5 T lanes and 1.5 RT lanes

Originally Estimated by: RBF, PBS&J
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$160,000
2 Clear & Grub	\$12200 / AC	0.2	\$2,000
3 Earthwork	\$46.00 / CY	4,000	\$184,000
4 Remove Striping	\$13.00 / LF	1,600	\$21,000
5 Remove Curb & Gutter	\$36.00 / LF	750	\$27,000
6 Remove Median Curb	\$37.00 / LF	500	\$19,000
7 Remove PCC Sidewalk	\$5.00/ SF	11,500	\$58,000
8 Remove Pavement	\$5.00 / SF	7,000	\$35,000
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00/ LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	35	\$46,000
13 Sawcut	\$1.25 / LF	2,000	\$3,000
14 Relocate Street Light	\$5,700.00 / EA	5	\$29,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	1.00	\$225,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	9	\$2,000
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	5	\$125,000
21 Relocate Catch Basin	\$9,760.00 / EA	2	\$20,000
22 Relocate Fire Hydrant	\$5,000.00 / EA	2	\$10,000
23 Relocate Bus Bench	\$1,458.00/ EA	1	\$1,000
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	48	\$43,000
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	3	\$30,000
28 Adjust Manhole to Grade	\$1,500.00 / EA	5	\$8,000
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	12	\$7,000
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	10	\$6,000
32 Modify Driveway	\$6,100.00 / LS	1	\$6,000
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	10,800	\$65,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$2.00 / LF	1,600	\$3,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	800	\$15,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	550	\$17,000
42 Construct Median Concrete	\$7.9 / SF	1,100	\$9,000
43 Construct Median/Parkway Landscaping	\$13.00 / SF	400	\$5,000
44 Construct PCC Sidewalk	\$9.05 / SF	12,900	\$117,000
45 Construct Wheelchair Ramp	\$5,200.00 / EA	4	\$21,000
46 Construct Retaining Wall	\$114 / SF	840	\$96,000
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$100,000
54 SWPPP Plan and Implementation	6%	1	\$81,000
CONSTRUCTION SUBTOTAL			\$1,596,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$57,000
CONSTRUCTION SUBTOTAL			\$1,653,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$127,000
CONSTRUCTION SUBTOTAL			\$1,526,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$99,000
CONSTRUCTION SUBTOTAL			\$1,427,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$41,000
CONSTRUCTION SUBTOTAL			\$1,386,000
California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$122,000
CONSTRUCTION SUBTOTAL			\$1,508,000
Right-of-Way	\$79.00 / SF	8,100	\$640,000
Right-of-Way Management	5%		\$32,000
RIGHT-OF-WAY SUBTOTAL			\$672,000
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$2,180,000
Preliminary Project Development (10% of total Construction Cost)			\$151,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$227,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$227,000
Contingency (20% of total Construction Cost)			\$302,000
TOTAL PROJECT COSTS			\$3,087,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #362. Bake Pkwy at Irvine Blvd

Date: 8/9/2012

Mitigation: + Convert WB RT lane to shared 4th T/RT lane. Add 2nd NB LT lane
+ Restripe EB to provide 2 LT lanes, 2.5 T lanes and 1.5 RT lanes
+ Add 4th SB T lane and convert SB RT lane to free RT lane

Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$348,000
2 Clear & Grub	\$12200 / AC	0.2	\$2,000
3 Earthwork	\$46.00 / CY	9,700	\$446,000
4 Remove Striping	\$13.00 / LF	1,900	\$25,000
5 Remove Curb & Gutter	\$36.00 / LF	2,800	\$101,000
6 Remove Median Curb	\$37.00 / LF	850	\$31,000
7 Remove PCC Sidewalk	\$5.00/ SF	22,400	\$112,000
8 Remove Pavement	\$5.00 / SF	40,000	\$200,000
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	35	\$46,000
13 Sawcut	\$1.25 / LF	2,350	\$3,000
14 Relocate Street Light	\$5,700.00 / EA	5	\$29,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	1.00	\$225,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	9	\$2,000
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	5	\$125,000
21 Relocate Catch Basin	\$9,760.00 / EA	2	\$20,000
22 Relocate Fire Hydrant	\$5,000.00 / EA	2	\$10,000
23 Relocate Bus Bench	\$1,458.00/ EA	1	\$1,000
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	48	\$43,000
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	3	\$30,000
28 Adjust Manhole to Grade	\$1,500.00 / EA	5	\$8,000
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	12	\$7,000
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	10	\$6,000
32 Modify Driveway	\$6,100.00 / LS	1	\$6,000
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	67,700	\$406,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$2.00 / LF	6,000	\$12,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	2,800	\$53,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	1,100	\$34,000
42 Construct Median Concrete	\$7.9 / SF	3,900	\$31,000
43 Construct Median/Parkway Landscaping	\$13.00 / SF	400	\$5,000
44 Construct PCC Sidewalk	\$9.05 / SF	22,400	\$203,000
45 Construct Wheelchair Ramp	\$5,200.00 / EA	5	\$26,000
46 Construct Retaining Wall	\$114 / SF	4,300	\$490,000
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$219,000
54 SWPPP Plan and Implementation	6%	1	\$177,000
CONSTRUCTION SUBTOTAL			\$3,482,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$125,000
CONSTRUCTION SUBTOTAL			\$3,607,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$278,000
CONSTRUCTION SUBTOTAL			\$3,329,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$216,000
CONSTRUCTION SUBTOTAL			\$3,113,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$90,000
CONSTRUCTION SUBTOTAL			\$3,023,000
California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$266,000
CONSTRUCTION SUBTOTAL			\$3,289,000
Right-of-Way	\$79.00 / SF	25,000	\$1,975,000
Right-of-Way Management	5%		\$99,000
RIGHT-OF-WAY SUBTOTAL			\$2,074,000
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$5,363,000
Preliminary Project Development (10% of total Construction Cost)			\$329,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$494,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$494,000
Contingency (20% of total Construction Cost)			\$658,000
TOTAL PROJECT COSTS			\$7,338,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #364. Bake Pkwy at Jeronimo Dr

Date: 8/9/2012

Mitigation: + Add 2nd NB LT lane, Convert SB defacto RT lane to 4th T lane
+ Add 3rd WB T lane

Originally Estimated by: RBF, PBS&J
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$235,000
2	Clear & Grub	\$12200 / AC	0.4	\$5,000
3	Earthwork	\$46.00 / CY	2,910	\$134,000
4	Remove Striping	\$13.00 / LF	2,400	\$31,000
5	Remove Curb & Gutter	\$36.00 / LF	3,590	\$129,000
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00/ SF	17,950	\$90,000
8	Remove Pavement	\$5.00 / SF	3,590	\$18,000
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00/ LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	68	\$88,000
13	Sawcut	\$1.25 / LF	3,590	\$4,000
14	Relocate Street Light	\$5,700.00 / EA	7	\$40,000
15	Relocate Traffic Signal System	\$225,000.00 / EA	1.00	\$225,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	6	\$1,000
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	7	\$175,000
21	Relocate Catch Basin	\$9,760.00 / EA	2	\$20,000
22	Relocate Fire Hydrant	\$5,000.00 / EA	1	\$5,000
23	Relocate Bus Bench	\$1,458.00/ EA	1	\$1,000
24	Relocate Monument Wall	\$6,100.00 / EA	1	\$6,000
25	Relocate Utility Boxes	\$895.00 / EA	29	\$26,000
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	1	\$10,000
28	Adjust Manhole to Grade	\$1,500.00 / EA	3	\$5,000
29	Adjust Water Meter	\$610.00 / EA	1	\$1,000
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	8	\$5,000
32	Modify Driveway	\$6,100.00 / LS	3	\$18,000
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	20,010	\$120,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	89,100	\$36,000
37	Construct Striping & Marking	\$2.00 / LF	2,400	\$5,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	3,590	\$68,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	16,650	\$216,000
44	Construct PCC Sidewalk	\$9.05 / SF	17,950	\$162,000
45	Construct Wheelchair Ramp	\$5,200.00 / EA	4	\$21,000
46	Construct Retaining Wall	\$114 / SF	1,600	\$182,000
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50	Relocate Mail Box	\$500.00 / SF	1	\$1,000
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$148,000
54	SWPPP Plan and Implementation	6%	1	\$120,000
	CONSTRUCTION SUBTOTAL			\$2,351,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$85,000
	CONSTRUCTION SUBTOTAL			\$2,436,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$188,000
	CONSTRUCTION SUBTOTAL			\$2,248,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$146,000
	CONSTRUCTION SUBTOTAL			\$2,102,000
	California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$61,000
	CONSTRUCTION SUBTOTAL			\$2,041,000
	California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$180,000
	CONSTRUCTION SUBTOTAL			\$2,221,000
	Right-of-Way	\$79.00/ SF	16,650	\$1,315,000
	Right-of-Way Management	5%		\$66,000
	RIGHT-OF-WAY SUBTOTAL			\$1,381,000
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$3,602,000
	Preliminary Project Development (10% of total Construction Cost)			\$223,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$334,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$334,000
	Contingency (20% of total Construction Cost)			\$445,000
	TOTAL PROJECT COSTS			\$4,938,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #368. Bake Pkwy at I-5 SB ramps
Mitigation: + Add 4th NB T lane

Date: 8/9/2012
Originally Estimated by: RBF
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$157,000
2	Clear & Grub	\$12200 / AC	0.2	\$2,000
3	Earthwork	\$46.00 / CY	3,820	\$176,000
4	Remove Striping	\$13.00 / LF	8,750	\$114,000
5	Remove Curb & Gutter	\$36.00 / LF	1,380	\$50,000
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00 / SF	6,490	\$32,000
8	Remove Pavement	\$5.00 / SF	800	\$4,000
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	30	\$1,000
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	110	\$9,000
12	Remove & Relocate Tree	\$1,300.00 / EA	11	\$14,000
13	Sawcut	\$1.25 / LF	1,420	\$2,000
14	Relocate Street Light	\$5,700.00 / EA	3	\$17,000
15	Relocate Traffic Signal System	\$225,000.00 / EA	0.50	\$113,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	1	\$1,000
17	Relocate Sign (1 post)	\$220.00 / EA	12	\$3,000
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	1	\$10,000
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	15	\$13,000
26	Relocate Main Water Valve	\$12,200.00 / EA	1	\$12,000
27	Relocate Utility Vault	\$10,000 / EA	4	\$40,000
28	Adjust Manhole to Grade	\$1,500.00 / EA	2	\$3,000
29	Adjust Water Meter	\$610.00 / EA	1	\$1,000
30	Adjust Water Valve	\$610.00 / EA	7	\$4,000
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	4	\$2,000
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$7.50 / SF	800	\$6,000
34	Construct AC Pavement	\$6.00 / SF	7,380	\$44,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$2.00 / LF	9,720	\$19,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	1,420	\$27,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	6,690	\$61,000
45	Construct Wheelchair Ramp	\$5,200.00 / EA	2	\$10,000
46	Construct Retaining Wall	\$114 / SF	3,820	\$435,000
46.1	Remove Retaining Wall	\$74.00 / SF	180	\$13,000
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$99,000
54	SWPPP Plan and Implementation	6%	1	\$80,000
	CONSTRUCTION SUBTOTAL			\$1,574,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$57,000
	CONSTRUCTION SUBTOTAL			\$1,631,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$126,000
	CONSTRUCTION SUBTOTAL			\$1,505,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$98,000
	CONSTRUCTION SUBTOTAL			\$1,407,000
	California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$41,000
	CONSTRUCTION SUBTOTAL			\$1,366,000
	California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$120,000
	CONSTRUCTION SUBTOTAL			\$1,486,000
	Right-of-Way	\$79.00 / SF	6,660	\$526,000
	Right-of-Way Management	5%		\$26,000
	RIGHT-OF-WAY SUBTOTAL			\$552,000
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$2,038,000
	Preliminary Project Development (10% of total Construction Cost)			\$149,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$223,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$223,000
	Contingency (20% of total Construction Cost)			\$298,000
	TOTAL PROJECT COSTS			\$2,931,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #379. Lake Forest Dr to Muirlands Blvd
Mitigation: + Convert NB RT lane to 4th T lane
(Remove 2 Type IV(R) arrows (26sf))

Date: 8/9/2012
Originally Estimated by: RBF
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$2,000
2	Clear & Grub	\$12200 / AC	0.0	\$0
3	Earthwork	\$46.00 / CY	0	\$0
4	Remove Striping	\$13.00 / LF	300	\$4,000
5	Remove Curb & Gutter	\$36.00 / LF	0	\$0
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8	Remove Pavement	\$5.00 / SF	0	\$0
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	0	\$0
14	Relocate Street Light	\$5,700.00 / EA	0	\$0
15	Relocate Traffic Signal System	\$225,000.00 / EA	0.00	\$0
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	0	\$0
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$2.00 / LF	300	\$1,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	0	\$0
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45	Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$2,000
54	SWPPP Plan and Implementation	6%	0	\$0
	CONSTRUCTION SUBTOTAL			\$9,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$324
	CONSTRUCTION SUBTOTAL			\$9,324
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$1,000
	CONSTRUCTION SUBTOTAL			\$8,324
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$1,000
	CONSTRUCTION SUBTOTAL			\$7,324
	California Highway Price Index	(2.9%)	CCI 2010* --> 2011	\$0
	CONSTRUCTION SUBTOTAL			\$7,324
	California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$1,000
	CONSTRUCTION SUBTOTAL			\$8,324
	Right-of-Way	\$79.00 / SF	0	\$0
	Right-of-Way Management	5%		\$0
	RIGHT-OF-WAY SUBTOTAL			\$0
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$8,324
	Preliminary Project Development (10% of total Construction Cost)			\$1,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$2,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$2,000
	Contingency (20% of total Construction Cost)			\$2,000
	TOTAL PROJECT COSTS			\$15,324

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #383. Lake Forest Dr at Avenida De La Carlota/I-5 SB ramps

Date: 8/9/2012

Mitigation: + Restripe EB approach to provide 3 LT lanes, 0.5 T lanes, and 1.5 RT lanes **Originally Estimated by:** RBF, PBS&J
+ Add 2nd WB LT lane, provide WB RT overlap with SB LT **Revised by:** HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$48,000
2	Clear & Grub	\$12200 / AC	0.1	\$1,000
3	Earthwork	\$46.00 / CY	160	\$7,000
4	Remove Striping	\$13.00 / LF	500	\$7,000
5	Remove Curb & Gutter	\$36.00 / LF	200	\$7,000
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00 / SF	1,400	\$7,000
8	Remove Pavement	\$5.00 / SF	0	\$0
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	200	\$0
14	Relocate Street Light	\$5,700.00 / EA	2	\$11,000
15	Relocate Traffic Signal System	\$225,000.00 / EA	0.25	\$56,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	3	\$1,000
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22	Relocate Fire Hydrant	\$5,000.00 / EA	2	\$10,000
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	6	\$5,000
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	1	\$10,000
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	3	\$2,000
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	2	\$1,000
32	Modify Driveway	\$6,100.00 / LS	1	\$6,000
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	3,220	\$19,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	15,000	\$6,000
37	Construct Striping & Marking	\$2.00 / LF	700	\$1,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	200	\$4,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	1,400	\$13,000
45	Construct Wheelchair Ramp	\$5,200.00 / EA	1	\$5,000
46	Construct Retaining Wall	\$114 / SF	760	\$87,000
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	2	\$1,000
49	Construct Concrete V-Ditch	\$19.00 / LF	2	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	1	\$113,000
53	Traffic Control	8% (\$2,000 Min)	1	\$30,000
54	SWPPP Plan and Implementation	6%	1	\$25,000
	CONSTRUCTION SUBTOTAL			\$483,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$17,000
	CONSTRUCTION SUBTOTAL			\$500,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$39,000
	CONSTRUCTION SUBTOTAL			\$461,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$30,000
	CONSTRUCTION SUBTOTAL			\$431,000
	California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$12,000
	CONSTRUCTION SUBTOTAL			\$419,000
	California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$37,000
	CONSTRUCTION SUBTOTAL			\$456,000
	Right-of-Way	\$79.00 / SF	2,300	\$182,000
	Right-of-Way Management	5%		\$9,000
	RIGHT-OF-WAY SUBTOTAL			\$191,000
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$647,000
	Preliminary Project Development (10% of total Construction Cost)			\$46,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$69,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$69,000
	Contingency (20% of total Construction Cost)			\$92,000
	TMSOS Allowance			\$272,000
	TOTAL PROJECT COSTS			\$1,195,000

Item differs from other cost estimate sheets

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2012 COST ESTIMATES (ACTUAL COST)**

Location: #406, Laguna Canyon Rd at Lake Forest Drive (Future)
Mitigation: + Add 3rd SB LT lane

Date: 9/16/2010
Originally Estimated by: RBF
Revised by: PM

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$206,000
2	Clear & Grub	\$12200 / AC	2.2	\$27,000
3	Earthwork	\$46.00 / CY	27,300	\$1,256,000
4	Remove Striping	\$13.00 / LF	1,250	\$16,000
5	Remove Curb & Gutter	\$36.00 / LF	900	\$32,000
6	Remove Median Curb	\$37.00 / LF	500	\$19,000
7	Remove PCC Sidewalk	\$5.00/ SF	8,100	\$41,000
8	Remove Pavement	\$5.00 / SF	0	\$0
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00/ LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	1,400	\$2,000
14	Relocate Street Light	\$5,700.00 / EA	0	\$0
15	Relocate Traffic Signal System	\$225,000.00 / EA	0.00	\$0
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	9,440	\$57,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$2.00 / LF	1,550	\$3,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	900	\$17,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	500	\$16,000
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	5,400	\$70,000
44	Construct PCC Sidewalk	\$9.05 / SF	7,200	\$65,000
45	Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$130,000
54	SWPPP Plan and Implementation	6%	1	\$105,000
CONSTRUCTION SUBTOTAL				\$2,062,000
California Highway Price Index		+3.6%	CCI 2008 --> 2009	\$74,000
CONSTRUCTION SUBTOTAL				\$2,136,000
California Highway Price Index				
CONSTRUCTION SUBTOTAL				2010 Actual Cost¹
CONSTRUCTION SUBTOTAL				\$155,366
Right-of-Way		\$35.18 / SF	5,800	\$204,044
Right-of-Way Management		5%		\$10,202
RIGHT-OF-WAY SUBTOTAL				\$214,246
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST				\$369,612
Preliminary Project Development (10% of total Construction Cost)				
Design Engineering/Administration Costs (15% of total Construction Cost)				
Construction Engineering Costs/Administration (15% of total Construction Cost)				
Contingency (20% of total Construction Cost)				
TOTAL PROJECT COSTS (ACTUAL COST¹)				\$369,612

1 = Per Fee Credit Memo (Revised 08/09/2010)

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2012 COST ESTIMATES**

Location: #406. Laguna Canyon Rd at Lake Forest Drive
Mitigation: + Restrip to Add 3rd SB LT lane

Date: 4/3/2013
Originally Estimated by: H&A
Revised by:

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	0	\$2,000
2	Clear & Grub	\$12200 / AC	0	\$0
3	Earthwork	\$46.00 / CY	0	\$0
4	Remove Striping	\$13.00 / LF	1,090	\$14,000
5	Remove Curb & Gutter	\$36.00 / LF	0	\$0
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00/ SF	0	\$0
8	Remove Pavement	\$5.00 / SF	0	\$0
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00/ LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	0	\$0
14	Relocate Street Light	\$5,700.00 / EA	0	\$0
15	Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	0	\$0
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$2.00 / LF	1,310	\$3,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	0	\$0
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45	Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	0	\$2,000
54	SWPPP Plan and Implementation	6%	0	\$0
CONSTRUCTION SUBTOTAL				\$21,000
	Right-of-Way	\$35.18 / SF	0	\$0
	Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL				\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST				\$21,000
Preliminary Project Development (10% of total Construction Cost)				\$3,000
Design Engineering/Administration Costs (15% of total Construction Cost)				\$4,000
Construction Engineering Costs/Administration (15% of total Construction Cost)				\$4,000
Contingency (20% of total Construction Cost)				\$5,000
TOTAL PROJECT COSTS				\$37,000

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**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #407. Laguna Canyon Rd at Bake Pkwy
Mitigation: + Add 3rd NB T lane

Date: 8/9/2012
Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$77,000
2 Clear & Grub	\$12200 / AC	1	\$12,000
3 Earthwork	\$46.00 / CY	3,500	\$161,000
4 Remove Striping	\$13.00 / LF	1,700	\$22,000
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8 Remove Pavement	\$5.00 / SF	4,000	\$20,000
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	1,700	\$2,000
14 Relocate Street Light	\$5,700.00 / EA	0	\$0
15 Relocate Traffic Signal System	\$225,000.00 / EA	0.50	\$113,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	20,400	\$122,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$2.00 / LF	1,700	\$3,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	300	\$9,000
42 Construct Median Concrete	\$7.9 / SF	1,700	\$13,000
43 Construct Median/Parkway Landscaping	\$13.00 / SF	5,400	\$70,000
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Drainage Allowance	10% / LS	1	\$55,000
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$48,000
54 SWPPP Plan and Implementation	6%	1	\$39,000
CONSTRUCTION SUBTOTAL			\$766,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$28,000
CONSTRUCTION SUBTOTAL			\$794,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$61,000
CONSTRUCTION SUBTOTAL			\$733,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$48,000
CONSTRUCTION SUBTOTAL			\$685,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$20,000
CONSTRUCTION SUBTOTAL			\$665,000
California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$59,000
CONSTRUCTION SUBTOTAL			\$724,000
Right-of-Way	\$36.95 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$724,000
Preliminary Project Development (10% of total Construction Cost)			\$73,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$109,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$109,000
Contingency (20% of total Construction Cost)			\$145,000
TOTAL PROJECT COSTS			\$1,160,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2011 COST ESTIMATES**

Location: #228, Culver Dr at Barranca Pkwy
Mitigation: + Convert WB defacto RT lane to 3rd T lane

Date: 6/11/2012
Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$43,000
2 Clear & Grub	\$12200 / AC	0.2	\$2,000
3 Earthwork	\$46.00 / CY	780	\$36,000
4 Remove Striping	\$13.00 / LF	800	\$10,000
5 Remove Curb & Gutter	\$36.00 / LF	600	\$22,000
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00/ SF	3,000	\$15,000
8 Remove Pavement	\$5.00 / SF	600	\$3,000
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00/ LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	15	\$20,000
13 Sawcut	\$1.25 / LF	600	\$1,000
14 Relocate Street Light	\$5,700.00 / EA	0	\$0
15 Relocate Traffic Signal System	\$225,000.00 / EA	0.50	\$113,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	1	\$10,000
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	1	\$1,000
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	1	\$2,000
29 Adjust Water Meter	\$610.00 / EA	7	\$4,000
30 Adjust Water Valve	\$610.00 / EA	2	\$1,000
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	6,270	\$38,000
35 Construct AC Overlay	\$2.50 / SF	1,200	\$3,000
36 Construct Slurry Seal	\$0.4 / SF	18,400	\$7,000
37 Construct Striping & Marking	\$2.00 / LF	1,000	\$2,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	500	\$10,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	70	\$2,000
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	3000	\$27,000
45 Construct Wheelchair Ramp	\$5,200.00 / EA	2	\$10,000
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$27,000
54 SWPPP Plan and Implementation	6%	1	\$22,000
CONSTRUCTION SUBTOTAL			\$431,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$16,000
CONSTRUCTION SUBTOTAL			\$447,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$34,000
CONSTRUCTION SUBTOTAL			\$413,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$27,000
CONSTRUCTION SUBTOTAL			\$386,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$11,000
CONSTRUCTION SUBTOTAL			\$375,000
California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$33,000
CONSTRUCTION SUBTOTAL			\$408,000
Right-of-Way	\$38.80 / SF	3,270	\$127,000
Right-of-Way Management	5%		\$6,000
RIGHT-OF-WAY SUBTOTAL			\$133,000
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$541,000
Preliminary Project Development (10% of total Construction Cost)			\$41,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$62,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$62,000
Contingency (20% of total Construction Cost)			\$82,000
TOTAL PROJECT COSTS			\$788,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #290. Jeffrey Rd at Barranca Pkwy
Mitigation: + Add NB & SB defacto RT lanes

Date: 8/9/2012
Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$32,000
2 Clear & Grub	\$12200 / AC	0.04	\$1,000
3 Earthwork	\$46.00 / CY	250	\$12,000
4 Remove Striping	\$13.00 / LF	0	\$0
5 Remove Curb & Gutter	\$36.00 / LF	950	\$34,000
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00/ SF	1625	\$8,000
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00/ LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	15	\$20,000
13 Sawcut	\$1.25 / LF	900	\$1,000
14 Relocate Street Light	\$5,700.00 / EA	1	\$6,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	0.50	\$113,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	4	\$4,000
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	1	\$10,000
28 Adjust Manhole to Grade	\$1,500.00 / EA	1	\$2,000
29 Adjust Water Meter	\$610.00 / EA	3	\$2,000
30 Adjust Water Valve	\$610.00 / EA	1	\$1,000
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	3	\$2,000
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	1,660	\$10,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$2.00 / LF	0	\$0
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	950	\$18,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	2	\$10,000
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$20,000
54 SWPPP Plan and Implementation	6%	1	\$16,000
CONSTRUCTION SUBTOTAL			\$322,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$12,000
CONSTRUCTION SUBTOTAL			\$334,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$26,000
CONSTRUCTION SUBTOTAL			\$308,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$20,000
CONSTRUCTION SUBTOTAL			\$288,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$8,000
CONSTRUCTION SUBTOTAL			\$280,000
California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$25,000
CONSTRUCTION SUBTOTAL			\$305,000
Right-of-Way	\$79.00 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$305,000
Preliminary Project Development (10% of total Construction Cost)			\$31,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$46,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$46,000
Contingency (20% of total Construction Cost)			\$61,000
TOTAL PROJECT COSTS			\$489,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #293, Jeffrey Rd at I-405 NB ramps
Mitigation: + Add 3rd WB LT lane

Date: 8/9/2012
Originally Estimated by: RBF
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$61,000
2	Clear & Grub	\$12200 / AC	0.3	\$4,000
3	Earthwork	\$46.00 / CY	1,510	\$69,000
4	Remove Striping	\$13.00 / LF	440	\$6,000
5	Remove Curb & Gutter	\$36.00 / LF	200	\$7,000
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00 / SF	930	\$5,000
8	Remove Pavement	\$5.00 / SF	0	\$0
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	500	\$1,000
14	Relocate Street Light	\$5,700.00 / EA	0	\$0
15	Relocate Traffic Signal System	\$225,000.00 / EA	0.50	\$113,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	2	\$1,000
17	Relocate Sign (1 post)	\$220.00 / EA	4	\$1,000
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	5,350	\$32,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$2.00 / LF	880	\$2,000
38	Construct AC Dike	\$4.00 / LF	300	\$1,000
39	Construct Curb & Gutter	\$19.00 / LF	200	\$4,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	910	\$8,000
45	Construct Wheelchair Ramp	\$5,200.00 / EA	1	\$5,000
46	Construct Retaining Wall	\$114 / SF	1,600	\$182,000
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$36,600.00 / LS	1	\$37,000
49	Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$38,000
54	SWPPP Plan and Implementation	6%	1	\$31,000
	CONSTRUCTION SUBTOTAL			\$608,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$22,000
	CONSTRUCTION SUBTOTAL			\$630,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$49,000
	CONSTRUCTION SUBTOTAL			\$581,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$38,000
	CONSTRUCTION SUBTOTAL			\$543,000
	California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$16,000
	CONSTRUCTION SUBTOTAL			\$527,000
	California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$46,000
	CONSTRUCTION SUBTOTAL			\$573,000
	Right-of-Way	\$79.00 / SF	0	\$0
	Right-of-Way Management	5%		\$0
	RIGHT-OF-WAY SUBTOTAL			\$0
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$573,000
	Preliminary Project Development (10% of total Construction Cost)			\$58,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$86,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$86,000
	Contingency (20% of total Construction Cost)			\$115,000
	TOTAL PROJECT COSTS			\$918,000

Item differ from other cost estimate sheets

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #327. Barranca Pkwy at Technology Dr

Date: 8/9/2012

Mitigation: + Add 2nd SB LT lane and restripe EB approach to provide 1 LT lane,
1.5 T lanes and 1.5 RT lanes

Originally Estimated by: RBF

Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$41,000
2 Clear & Grub	\$12200 / AC	0.1	\$1,000
3 Earthwork	\$46.00 / CY	450	\$21,000
4 Remove Striping	\$13.00 / LF	1,350	\$18,000
5 Remove Curb & Gutter	\$36.00 / LF	400	\$14,000
6 Remove Median Curb	\$37.00 / LF	360	\$13,000
7 Remove PCC Sidewalk	\$5.00/ SF	2,200	\$11,000
8 Remove Pavement	\$5.00 / SF	370	\$2,000
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00/ LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	13	\$17,000
13 Sawcut	\$1.25 / LF	730	\$1,000
14 Relocate Street Light	\$5,700.00 / EA	1	\$6,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	0.25	\$56,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	1	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	1	\$10,000
22 Relocate Fire Hydrant	\$5,000.00 / EA	1	\$5,000
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	2	\$2,000
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	4	\$2,000
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	2	\$1,000
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	6,700	\$40,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	13,400	\$5,000
37 Construct Striping & Marking	\$2.00 / LF	1,610	\$3,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	400	\$8,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	360	\$11,000
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	4,000	\$52,000
44 Construct PCC Sidewalk	\$9.05 / SF	2,400	\$22,000
45 Construct Wheelchair Ramp	\$5,200.00 / EA	1	\$5,000
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$26,000
54 SWPPP Plan and Implementation	6%	1	\$21,000
CONSTRUCTION SUBTOTAL			\$414,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$15,000
CONSTRUCTION SUBTOTAL			\$429,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$33,000
CONSTRUCTION SUBTOTAL			\$396,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$26,000
CONSTRUCTION SUBTOTAL			\$370,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$11,000
CONSTRUCTION SUBTOTAL			\$359,000
California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$32,000
CONSTRUCTION SUBTOTAL			\$391,000
Right-of-Way	\$79.00 / SF	1,800	\$142,000
Right-of-Way Management			\$0
RIGHT-OF-WAY SUBTOTAL			\$142,000
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$533,000
Preliminary Project Development (10% of total Construction Cost)			\$40,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$59,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$59,000
Contingency (20% of total Construction Cost)			\$79,000
TOTAL PROJECT COSTS			\$770,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #344. Alton Pkwy at Technology Dr

Date: 8/9/2012

Mitigation: + Restripe WB approach to provide 2.5 LT lanes, 1.5 T lanes, and no RT lane **Originally Estimated by:** RBF
+ Restripe EB approach to provide 1.5 LT lanes, 1.5 T lanes, and 2 RT lane **Revised by:** HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$2,000
2 Clear & Grub	\$12200 / AC	0.0	\$0
3 Earthwork	\$46.00 / CY	0	\$0
4 Remove Striping	\$13.00 / LF	400	\$5,000
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	0	\$0
14 Relocate Street Light	\$5,700.00 / EA	0	\$0
15 Relocate Traffic Signal System	\$225,000.00 / EA	0.00	\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	0	\$0
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$2.00 / LF	400	\$1,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$2,000
54 SWPPP Plan and Implementation	6%	0	\$0
CONSTRUCTION SUBTOTAL			\$10,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$360
CONSTRUCTION SUBTOTAL			\$10,360
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$1,000
CONSTRUCTION SUBTOTAL			\$9,360
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$1,000
CONSTRUCTION SUBTOTAL			\$8,360
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	\$0
CONSTRUCTION SUBTOTAL			\$8,360
California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$1,000
CONSTRUCTION SUBTOTAL			\$9,360
Right-of-Way	\$79.00 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$9,360
Preliminary Project Development (10% of total Construction Cost)			\$1,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$2,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$2,000
Contingency (20% of total Construction Cost)			\$2,000
TOTAL PROJECT COSTS			\$16,360

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #348. Alton Pkwy at Irvine Center Drive (Alt.1)

Date: 8/9/2012

Mitigation: Convert NB RT lane to free RT lane. Add 4th NB T lane
Restripe WB approach to provide 2 LT lane, 2.5 T lanes and 1.5 RT lanes

Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$121,000
2 Clear & Grub	\$12200 / AC	0.9	\$11,000
3 Earthwork	\$46.00 / CY	4,500	\$207,000
4 Remove Striping	\$13.00 / LF	1,400	\$18,000
5 Remove Curb & Gutter	\$36.00 / LF	1,250	\$45,000
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00/ SF	5,400	\$27,000
8 Remove Pavement	\$5.00 / SF	300	\$2,000
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00/ LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	30	\$39,000
13 Sawcut	\$1.25 / LF	1,250	\$2,000
14 Relocate Street Light	\$5,700.00 / EA	3	\$17,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	0.75	\$169,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	4	\$1,000
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	3	\$29,000
22 Relocate Fire Hydrant	\$5,000.00 / EA	5	\$25,000
23 Relocate Bus Bench	\$1,458.00/ EA	2	\$3,000
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	5	\$4,000
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	5	\$50,000
28 Adjust Manhole to Grade	\$1,500.00 / EA	5	\$8,000
29 Adjust Water Meter	\$610.00 / EA	1	\$1,000
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	3	\$2,000
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	14,500	\$87,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$2.00 / LF	1,400	\$3,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	1,250	\$24,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	200	\$6,000
42 Construct Median Concrete	\$7.9 / SF	1,500	\$12,000
43 Construct Median/Parkway Landscaping	\$13.00 / SF	6,250	\$81,000
44 Construct PCC Sidewalk	\$9.05 / SF	5,400	\$49,000
45 Construct Wheelchair Ramp	\$5,200.00 / EA	5	\$26,000
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$76,000
54 SWPPP Plan and Implementation	6%	1	\$61,000
CONSTRUCTION SUBTOTAL			\$1,206,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$43,000
CONSTRUCTION SUBTOTAL			\$1,249,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$96,000
CONSTRUCTION SUBTOTAL			\$1,153,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$75,000
CONSTRUCTION SUBTOTAL			\$1,078,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$31,000
CONSTRUCTION SUBTOTAL			\$1,047,000
California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$92,000
CONSTRUCTION SUBTOTAL			\$1,139,000
Right-of-Way (2007)	\$79.00 / SF	9,700	\$766,000
Right-of-Way Management	5%		\$38,000
2007 RIGHT-OF-WAY SUBTOTAL			\$804,000
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$1,943,000
Preliminary Project Development (10% of total Construction Cost)			\$114,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$171,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$171,000
Contingency (20% of total Construction Cost)			\$228,000
TOTAL PROJECT COSTS			\$2,627,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #358, Irvine Center Dr at Enterprise Dr
Mitigation: + Add 3rd NB T lane

Date: 8/9/2012
Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$2,000
2 Clear & Grub	\$12200 / AC	0.0	\$0
3 Earthwork	\$46.00 / CY	0	\$0
4 Remove Striping	\$13.00 / LF	500	\$7,000
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	0	\$0
14 Relocate Street Light	\$5,700.00 / EA	0	\$0
15 Relocate Traffic Signal System	\$225,000.00 / EA	0.00	\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	0	\$0
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	19,500	\$8,000
37 Construct Striping & Marking	\$2.00 / LF	500	\$1,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$2,000
54 SWPPP Plan and Implementation	6%	0	\$0
CONSTRUCTION SUBTOTAL			\$20,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$1,000
CONSTRUCTION SUBTOTAL			\$21,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$2,000
CONSTRUCTION SUBTOTAL			\$19,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$1,000
CONSTRUCTION SUBTOTAL			\$18,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$1,000
CONSTRUCTION SUBTOTAL			\$17,000
California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$1,000
CONSTRUCTION SUBTOTAL			\$18,000
Right-of-Way	\$79.00 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$18,000
Preliminary Project Development (10% of total Construction Cost)			\$2,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$3,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$3,000
Contingency (20% of total Construction Cost)			\$4,000
TOTAL PROJECT COSTS			\$30,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #359, Irvine Center Dr at I-405 SB Ramps
Mitigation: + Add 3rd SB T lane and 3rd EB LT lane

Date: 8/9/2012
Originally Estimated by: RBF
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$58,000
2	Clear & Grub	\$12200 / AC	0.1	\$1,000
3	Earthwork	\$46.00 / CY	600	\$28,000
4	Remove Striping	\$13.00 / LF	2,500	\$33,000
5	Remove Curb & Gutter	\$36.00 / LF	600	\$22,000
6	Remove Median Curb	\$37.00 / LF	150	\$6,000
7	Remove PCC Sidewalk	\$5.00/ SF	600	\$3,000
8	Remove Pavement	\$5.00 / SF	0	\$0
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00/ LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	600	\$1,000
14	Relocate Street Light	\$5,700.00 / EA	1	\$6,000
15	Relocate Traffic Signal System	\$225,000.00 / EA	1.00	\$225,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	5	\$50,000
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	3,600	\$22,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	25,000	\$10,000
37	Construct Striping & Marking	\$2.00 / LF	2,850	\$6,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	600	\$11,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	100	\$3,000
42	Construct Median Concrete	\$7.9 / SF	650	\$5,000
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	500	\$5,000
45	Construct Wheelchair Ramp	\$5,200.00 / EA	4	\$21,000
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$37,000
54	SWPPP Plan and Implementation	6%	1	\$30,000
	CONSTRUCTION SUBTOTAL			\$583,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$21,000
	CONSTRUCTION SUBTOTAL			\$604,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$47,000
	CONSTRUCTION SUBTOTAL			\$557,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$36,000
	CONSTRUCTION SUBTOTAL			\$521,000
	California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$15,000
	CONSTRUCTION SUBTOTAL			\$506,000
	California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$45,000
	CONSTRUCTION SUBTOTAL			\$551,000
	Right-of-Way (2007)	\$79.00 / SF	0	\$0
	Right-of-Way Management	5%		\$0
	2007 RIGHT-OF-WAY SUBTOTAL			\$0
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$551,000
	Preliminary Project Development (10% of total Construction Cost)			\$56,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$83,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$83,000
	Contingency (20% of total Construction Cost)			\$111,000
	TOTAL PROJECT COSTS			\$884,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #378. Lake Forest Dr at Jeronimo Rd

Date: 8/9/2012

Mitigation: + Add 2nd SB LT lane and separate EB & WB RT lanes

Originally Estimated by: RBF

Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$121,000
2	Clear & Grub	\$12200 / AC	0.2	\$2,000
3	Earthwork	\$46.00 / CY	1,080	\$50,000
4	Remove Striping	\$13.00 / LF	1,900	\$25,000
5	Remove Curb & Gutter	\$36.00 / LF	1,420	\$51,000
6	Remove Median Curb	\$37.00 / LF	560	\$21,000
7	Remove PCC Sidewalk	\$5.00 / SF	11,360	\$57,000
8	Remove Pavement	\$5.00 / SF	1,380	\$7,000
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	21	\$27,000
13	Sawcut	\$1.25 / LF	1,420	\$2,000
14	Relocate Street Light	\$5,700.00 / EA	1	\$6,000
15	Relocate Traffic Signal System	\$225,000.00 / EA	1.00	\$225,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	1	\$10,000
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	2	\$2,000
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	1	\$2,000
29	Adjust Water Meter	\$610.00 / EA	5	\$3,000
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	3	\$2,000
32	Modify Driveway	\$6,100.00 / LS	1	\$6,000
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	11,710	\$70,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	69,760	\$28,000
37	Construct Striping & Marking	\$2.00 / LF	1,900	\$4,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	1,420	\$27,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	560	\$17,000
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	1,680	\$22,000
44	Construct PCC Sidewalk	\$9.05 / SF	10,900	\$99,000
45	Construct Wheelchair Ramp	\$5,200.00 / EA	4	\$21,000
46	Construct Retaining Wall	\$114 / SF	1,480	\$169,000
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$76,000
54	SWPPP Plan and Implementation	6%	1	\$62,000
	CONSTRUCTION SUBTOTAL			\$1,214,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$44,000
	CONSTRUCTION SUBTOTAL			\$1,258,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$97,000
	CONSTRUCTION SUBTOTAL			\$1,161,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$75,000
	CONSTRUCTION SUBTOTAL			\$1,086,000
	California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$31,000
	CONSTRUCTION SUBTOTAL			\$1,055,000
	California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$93,000
	CONSTRUCTION SUBTOTAL			\$1,148,000
	Right-of-Way	\$79.00 / SF	7,850	\$620,000
	Right-of-Way Management	5%		\$31,000
	RIGHT-OF-WAY SUBTOTAL			\$651,000
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$1,799,000
	Preliminary Project Development (10% of total Construction Cost)			\$115,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$173,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$173,000
	Contingency (20% of total Construction Cost)			\$230,000
	TOTAL PROJECT COSTS			\$2,490,000

* Notes:

A. Cost estimate was based on aerial photos and 2003 layout. 2003 layout does not show all mitigations.

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #380, Lake Forest Dr to Rockfield Blvd

Date: 8/9/2012

Mitigation: + Restripe WB approach to provide 3 LT lanes,

Originally Estimated by: RBF

2 T lanes, and no RT lane

Revised by: HA

(Remove 2 Type IV(R) arrows and restripe lane-lines.)

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$2,000
2 Clear & Grub	\$12200 / AC	0.0	\$0
3 Earthwork	\$46.00 / CY	0	\$0
4 Remove Striping	\$13.00 / LF	850	\$11,000
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	0	\$0
14 Relocate Street Light	\$5,700.00 / EA	0	\$0
15 Relocate Traffic Signal System	\$225,000.00 / EA	0.00	\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	0	\$0
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$2.00 / LF	850	\$2,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$2,000
54 SWPPP Plan and Implementation	6%	1	\$1,000
CONSTRUCTION SUBTOTAL			\$18,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$1,000
CONSTRUCTION SUBTOTAL			\$19,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$1,000
CONSTRUCTION SUBTOTAL			\$18,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$1,000
CONSTRUCTION SUBTOTAL			\$17,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	\$0
CONSTRUCTION SUBTOTAL			\$17,000
California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$1,000
CONSTRUCTION SUBTOTAL			\$18,000
Right-of-Way	\$79.00 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$18,000
Preliminary Project Development (10% of total Construction Cost)			\$2,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$3,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$3,000
Contingency (20% of total Construction Cost)			\$4,000
TOTAL PROJECT COSTS			\$30,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #387. Ridge Route Dr at Rockfield Blvd

Date: 8/9/2012

Mitigation: + Improve SB approach to provide 1.5 LT lanes, 1.5 T lanes,
+ and 1 defacto RT lane. Restripe NB approach to provide 1.5 LT lanes,
1.5 T lanes, and a defacto RT lane

Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$12,000
2 Clear & Grub	\$12200 / AC	0.2	\$2,000
3 Earthwork	\$46.00 / CY	0	\$0
4 Remove Striping	\$13.00 / LF	400	\$5,000
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	900	\$33,000
7 Remove PCC Sidewalk	\$5.00/ SF	0	\$0
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00/ LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	0	\$0
14 Relocate Street Light	\$5,700.00 / EA	2	\$11,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	0.00	\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	7,800	\$47,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$2.00 / LF	400	\$1,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$8,000
54 SWPPP Plan and Implementation	6%	0	\$0
CONSTRUCTION SUBTOTAL			\$119,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$4,000
CONSTRUCTION SUBTOTAL			\$123,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$9,000
CONSTRUCTION SUBTOTAL			\$114,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$7,000
CONSTRUCTION SUBTOTAL			\$107,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$3,000
CONSTRUCTION SUBTOTAL			\$104,000
California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$9,000
CONSTRUCTION SUBTOTAL			\$113,000
Right-of-Way	\$79.00 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$113,000
Preliminary Project Development (10% of total Construction Cost)			\$12,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$17,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$17,000
Contingency (20% of total Construction Cost)			\$23,000
TOTAL PROJECT COSTS			\$182,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #390. Paseo de Valencia at Avenida De La Carlota

Date: 8/9/2012

Mitigation: + Restripe SB approach to provide 2.5 LT lanes, 1.5 T lanes, no RT lane
+ Construct 3rd EB receiving lane for 3rd SB LT lane

Originally Estimated by: RBF

Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$27,000
2 Clear & Grub	\$12200 / AC	0.1	\$1,000
3 Earthwork	\$46.00 / CY	400	\$18,000
4 Remove Striping	\$13.00 / LF	700	\$9,000
5 Remove Curb & Gutter	\$36.00 / LF	450	\$16,000
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00/ SF	3,600	\$18,000
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00/ LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	450	\$500
14 Relocate Street Light	\$5,700.00 / EA	0	\$0
15 Relocate Traffic Signal System	\$225,000.00 / EA	0.25	\$56,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	2	\$1,000
17 Relocate Sign (1 post)	\$220.00 / EA	4	\$1,000
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	1	\$5,000
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	3	\$3,000
26 Relocate Main Water Valve	\$12,200.00 / EA	1	\$12,000
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	2	\$1,000
30 Adjust Water Valve	\$610.00 / EA	5	\$3,000
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	1	\$1,000
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	3,800	\$23,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	15,100	\$6,000
37 Construct Striping & Marking	\$2.00 / LF	700	\$1,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	450	\$9,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	2,250	\$20,000
45 Construct Wheelchair Ramp	\$5,200.00 / EA	1	\$5,000
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$17,000
54 SWPPP Plan and Implementation	6%	1	\$14,000
CONSTRUCTION SUBTOTAL			\$268,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$10,000
CONSTRUCTION SUBTOTAL			\$278,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$21,000
CONSTRUCTION SUBTOTAL			\$257,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$17,000
CONSTRUCTION SUBTOTAL			\$240,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$7,000
CONSTRUCTION SUBTOTAL			\$233,000
California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$21,000
CONSTRUCTION SUBTOTAL			\$254,000
Right-of-Way	\$79.00 / SF	3,800	\$300,000
Right-of-Way Management	5%		\$15,000
RIGHT-OF-WAY SUBTOTAL			\$315,000
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$569,000
Preliminary Project Development (10% of total Construction Cost)			\$26,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$39,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$39,000
Contingency (20% of total Construction Cost)			\$51,000
TOTAL PROJECT COSTS			\$724,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #396, El Toro Rd at Avenida De La Carlota

Date: 8/9/2012

Mitigation: + Restripe EB approach to provide 2 LT lanes, 2 T lanes, and no RT lanes

Originally Estimated by: RBF, PBS&J

+ Restripe WB approach to provide 0.5 LT lane, 1.5 T lanes, and 2 RT lanes

Revised by: HA

(Remove 10 Type VII, and 4 Type IV arrows. Install 2 Type VII, and 4 Type IV arrows.)

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$2,000
2 Clear & Grub	\$12200 / AC		\$0
3 Earthwork	\$46.00 / CY		\$0
4 Remove Striping	\$13.00 / LF	200	\$3,000
5 Remove Curb & Gutter	\$36.00 / LF		\$0
6 Remove Median Curb	\$37.00 / LF		\$0
7 Remove PCC Sidewalk	\$5.00/ SF		\$0
8 Remove Pavement	\$5.00 / SF		\$0
9 Remove Channel	\$19.00 / LF		\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF		\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00/ LF		\$0
12 Remove & Relocate Tree	\$1,300.00 / EA		\$0
13 Sawcut	\$1.25 / LF		\$0
14 Relocate Street Light	\$5,700.00 / EA		\$0
15 Relocate Traffic Signal System	\$225,000.00 / EA		\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA		\$0
17 Relocate Sign (1 post)	\$220.00 / EA		\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA		\$0
19 Relocate Call Box	\$2,051.00/EA		\$0
20 Relocate Power Pole	\$25,000 / EA		\$0
21 Relocate Catch Basin	\$9,760.00 / EA		\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA		\$0
23 Relocate Bus Bench	\$1,458.00/ EA		\$0
24 Relocate Monument Wall	\$6,100.00 / EA		\$0
25 Relocate Utility Boxes	\$895.00 / EA		\$0
26 Relocate Main Water Valve	\$12,200.00 / EA		\$0
27 Relocate Utility Vault	\$10,000 / EA		\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA		\$0
29 Adjust Water Meter	\$610.00 / EA		\$0
30 Adjust Water Valve	\$610.00 / EA		\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA		\$0
32 Modify Driveway	\$6,100.00 / LS		\$0
33 Construct PCC Pavement	\$7.50 / SF		\$0
34 Construct AC Pavement	\$6.00 / SF		\$0
35 Construct AC Overlay	\$2.50 / SF		\$0
36 Construct Slurry Seal	\$0.4 / SF		\$0
37 Construct Striping & Marking	\$2.00 / LF	100	\$0
38 Construct AC Dike	\$4.00 / LF		\$0
39 Construct Curb & Gutter	\$19.00 / LF		\$0
40 Construct Concrete Barrier	\$295.00 / LF		\$0
41 Construct Median Curb	\$31.00 / LF		\$0
42 Construct Median Concrete	\$7.9 / SF		\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF		\$0
44 Construct PCC Sidewalk	\$9.05 / SF		\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA		\$0
46 Construct Retaining Wall	\$114 / SF		\$0
47 Construct Storm Drain Main	\$122.00 / LF		\$0
48 Construct RCB	\$549.00 / CY		\$0
49 Construct Concrete V-Ditch	\$19.00/ LF		\$0
50 Construct Bridge Widening	\$500.00 / SF		\$0
51 Install Ramp Metering System	\$80,000.00 / EA		\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$2,000
54 SWPPP Plan and Implementation	6%	0	\$0
CONSTRUCTION SUBTOTAL			\$7,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$252
CONSTRUCTION SUBTOTAL			\$7,252
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$558
CONSTRUCTION SUBTOTAL			\$6,694
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$435
CONSTRUCTION SUBTOTAL			\$6,259
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$182
CONSTRUCTION SUBTOTAL			\$6,077
California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$535
CONSTRUCTION SUBTOTAL			\$6,612
Right-of-Way	\$79.00 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$6,612
Preliminary Project Development (10% of total Construction Cost)			\$1,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$1,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$1,000
Contingency (20% of total Construction Cost)			\$2,000
TOTAL PROJECT COSTS			\$11,612

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #420. El Toro Rd at Jeronimo Rd

Date: 8/9/2012

Mitigation: + Add 2nd SB LT lane, convert NB RT lane into 4th T lane
+ Convert SB defacto lane to 4th T lane, and add EB RT lane

Originally Estimated by: RBF, PBS&J
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$300,000
2	Clear & Grub	\$12200 / AC	0.1	\$1,000
3	Earthwork	\$46.00 / CY	1,200	\$55,000
4	Remove Striping	\$13.00 / LF	10,600	\$138,000
5	Remove Curb & Gutter	\$36.00 / LF	2,300	\$83,000
6	Remove Median Curb	\$37.00 / LF	55	\$2,000
7	Remove PCC Sidewalk	\$5.00/ SF	17,800	\$89,000
8	Remove Pavement	\$5.00 / SF	0	\$0
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00/ LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	20	\$26,000
13	Sawcut	\$1.25 / LF	2,300	\$3,000
14	Relocate Street Light	\$5,700.00 / EA	3	\$17,000
15	Relocate Traffic Signal System	\$225,000.00 / EA	1.25	\$281,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	11	\$2,000
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	9	\$225,000
21	Relocate Catch Basin	\$9,760.00 / EA	2	\$20,000
22	Relocate Fire Hydrant	\$5,000.00 / EA	1	\$5,000
23	Relocate Bus Bench	\$1,458.00/ EA	2	\$3,000
24	Relocate Monument Wall	\$6,100.00 / EA	1	\$6,000
25	Relocate Utility Boxes	\$895.00 / EA	11	\$10,000
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	3	\$30,000
28	Adjust Manhole to Grade	\$1,500.00 / EA	6	\$9,000
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	10	\$6,000
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	8	\$5,000
32	Modify Driveway	\$6,100.00 / LS	2	\$12,000
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	10,200	\$61,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	165,000	\$66,000
37	Construct Striping & Marking	\$2.00 / LF	10,800	\$22,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	2,300	\$44,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	13,500	\$122,000
45	Construct Wheelchair Ramp	\$5,200.00 / EA	4	\$21,000
46	Construct Retaining Wall	\$114 / SF	5,300	\$604,000
46.1	Remove Retaining Wall	\$74.00/SF	5,300	\$392,000
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$189,000
54	SWPPP Plan and Implementation	6%	1	\$153,000
CONSTRUCTION SUBTOTAL				\$3,002,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$108,000
CONSTRUCTION SUBTOTAL				\$3,110,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$239,000
CONSTRUCTION SUBTOTAL				\$2,871,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$187,000
CONSTRUCTION SUBTOTAL				\$2,684,000
	California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$78,000
CONSTRUCTION SUBTOTAL				\$2,606,000
	California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$229,000
CONSTRUCTION SUBTOTAL				\$2,835,000
	Right-of-Way	\$79.00 / SF	11,100	\$877,000
	Right-of-Way Management	5%		\$44,000
RIGHT-OF-WAY SUBTOTAL				\$921,000
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST				\$3,756,000
	Preliminary Project Development (10% of total Construction Cost)			\$284,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$426,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$426,000
	Contingency (20% of total Construction Cost)			\$567,000
TOTAL PROJECT COSTS				\$5,459,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #422. Los Alisos Blvd at Jeronimo Rd
Mitigation: + Add 2nd EB and WB LT lanes

Date: 8/9/2012
Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$103,000
2 Clear & Grub	\$12200 / AC	0.2	\$2,000
3 Earthwork	\$46.00 / CY	800	\$37,000
4 Remove Striping	\$13.00 / LF	3,000	\$39,000
5 Remove Curb & Gutter	\$36.00 / LF	1,300	\$47,000
6 Remove Median Curb	\$37.00 / LF	700	\$26,000
7 Remove PCC Sidewalk	\$5.00/ SF	6,400	\$32,000
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00/ LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	5	\$7,000
13 Sawcut	\$1.25 / LF	1,600	\$2,000
14 Relocate Street Light	\$5,700.00 / EA	1	\$6,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	0.50	\$113,000
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	8	\$2,000
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	1	\$5,000
23 Relocate Bus Bench	\$1,458.00/ EA	1	\$1,000
24 Relocate Monument Wall	\$6,100.00 / EA	1	\$6,000
25 Relocate Utility Boxes	\$895.00 / EA	1	\$1,000
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	3	\$30,000
28 Adjust Manhole to Grade	\$1,500.00 / EA	4	\$6,000
29 Adjust Water Meter	\$610.00 / EA	4	\$2,000
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	1	\$6,000
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	7,500	\$45,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	67,500	\$27,000
37 Construct Striping & Marking	\$2.00 / LF	3,400	\$7,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	1,300	\$25,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	700	\$22,000
42 Construct Median Concrete	\$7.9 / SF	7,000	\$55,000
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	6,400	\$58,000
45 Construct Wheelchair Ramp	\$5,200.00 / EA	2	\$10,000
46 Construct Retaining Wall	\$114 / SF	1,700	\$194,000
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$65,000
54 SWPPP Plan and Implementation	6%	1	\$53,000
CONSTRUCTION SUBTOTAL			\$1,034,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$37,000
CONSTRUCTION SUBTOTAL			\$1,071,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$82,000
CONSTRUCTION SUBTOTAL			\$989,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$64,000
CONSTRUCTION SUBTOTAL			\$925,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$27,000
CONSTRUCTION SUBTOTAL			\$898,000
California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$79,000
CONSTRUCTION SUBTOTAL			\$977,000
Right-of-Way	\$79.00 / SF	6,000	\$474,000
Right-of-Way Management	5%		\$24,000
RIGHT-OF-WAY SUBTOTAL			\$498,000
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$1,475,000
Preliminary Project Development (10% of total Construction Cost)			\$98,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$147,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$147,000
Contingency (20% of total Construction Cost)			\$196,000
TOTAL PROJECT COSTS			\$2,063,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2010 COST ESTIMATES**

Location: #423. Muirlands Blvd at Los Alisos Blvd
Mitigation: + Add 2nd NB, SB, EB and WB LT lanes
+ Add EB RT lane

Date: 9/20/2010
Originally Estimated by: RBF, PBS&J
Revised by: PM

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$258,000
2	Clear & Grub	\$12200 / AC	0.6	\$7,000
3	Earthwork	\$46.00 / CY	2,800	\$129,000
4	Remove Striping	\$13.00 / LF	10,800	\$140,000
5	Remove Curb & Gutter	\$36.00 / LF	3,000	\$108,000
6	Remove Median Curb	\$37.00 / LF	1,400	\$52,000
7	Remove PCC Sidewalk	\$5.00/ SF	19,200	\$96,000
8	Remove Pavement	\$5.00 / SF	0	\$0
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	1,000	\$31,000
11	Reconstruct Metal Beam Guard Rail	\$86.00/ LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	55	\$72,000
13	Sawcut	\$1.25 / LF	3,000	\$4,000
14	Relocate Street Light	\$5,700.00 / EA	0	\$0
15	Relocate Traffic Signal System	\$225,000.00 / EA	1.00	\$225,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	8	\$2,000
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	1	\$10,000
22	Relocate Fire Hydrant	\$5,000.00 / EA	1	\$5,000
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	4	\$4,000
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	2	\$20,000
28	Adjust Manhole to Grade	\$1,500.00 / EA	1	\$2,000
29	Adjust Water Meter	\$610.00 / EA	4	\$2,000
30	Adjust Water Valve	\$610.00 / EA	3	\$2,000
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	3	\$18,000
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	24,900	\$149,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	265,600	\$106,000
37	Construct Striping & Marking	\$2.00 / LF	10,800	\$22,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	3,000	\$57,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	1,400	\$43,000
42	Construct Median Concrete	\$7.9 / SF	7,700	\$61,000
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	19,200	\$174,000
45	Construct Wheelchair Ramp	\$5,200.00 / EA	3	\$16,000
46	Construct Retaining Wall	\$114 / SF	1,500	\$171,000
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	600	\$300,000
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$162,000
54	SWPPP Plan and Implementation	6%	1	\$131,000
CONSTRUCTION SUBTOTAL				\$2,579,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$93,000
CONSTRUCTION SUBTOTAL				\$2,672,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$206,000
CONSTRUCTION SUBTOTAL				\$2,466,000
	Right-of-Way	\$71.66 / SF	24,900	\$1,784,000
	Right-of-Way Management	5%		\$89,000
RIGHT-OF-WAY SUBTOTAL				\$1,873,000
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST				\$4,339,000
	Preliminary Project Development (10% of total Construction Cost)			\$247,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$370,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$370,000
	Contingency (20% of total Construction Cost)			\$494,000
TOTAL PROJECT COSTS				\$5,820,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #424. Los Alisos Blvd at Rockfield Blvd/Fordview St
Mitigation: + Add 2nd NB LT lane and SB RT lane

Date: 8/9/2012
Originally Estimated by: RBF, PBS&J
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$136,000
2	Clear & Grub	\$12200 / AC	0.1	\$1,000
3	Earthwork	\$46.00 / CY	150	\$7,000
4	Remove Striping	\$13.00 / LF	3,250	\$42,000
5	Remove Curb & Gutter	\$36.00 / LF	1,000	\$36,000
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00/ SF	8,000	\$40,000
8	Remove Pavement	\$5.00 / SF	0	\$0
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00/ LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	5	\$7,000
13	Sawcut	\$1.25 / LF	1,000	\$1,000
14	Relocate Street Light	\$5,700.00 / EA	0	\$0
15	Relocate Traffic Signal System	\$225,000.00 / EA	1.00	\$225,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	5	\$1,000
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	9	\$225,000
21	Relocate Catch Basin	\$9,760.00 / EA	1	\$10,000
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	7	\$6,000
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	2	\$3,000
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	1	\$1,000
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	3	\$2,000
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	3,100	\$19,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	61,200	\$24,000
37	Construct Striping & Marking	\$2.00 / LF	2,800	\$6,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	1,000	\$19,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	6,000	\$54,000
45	Construct Wheelchair Ramp	\$5,200.00 / EA	4	\$21,000
46	Construct Retaining Wall	\$114 / SF	2,250	\$257,000
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Remove Structure	\$61,000.00 / EA	1	\$61,000
52	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
53	Apply ATMS	\$113,165.00 / LS	0	\$0
54	Traffic Control	8% (\$2,000 Min)	1	\$85,000
55	SWPPP Plan and Implementation	6%	1	\$69,000
	CONSTRUCTION SUBTOTAL			\$1,358,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$49,000
	CONSTRUCTION SUBTOTAL			\$1,407,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$108,000
	CONSTRUCTION SUBTOTAL			\$1,299,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$84,000
	CONSTRUCTION SUBTOTAL			\$1,215,000
	California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$35,000
	CONSTRUCTION SUBTOTAL			\$1,180,000
	California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$104,000
	CONSTRUCTION SUBTOTAL			\$1,284,000
	Right-of-Way	\$79.00 / SF	1,400	\$111,000
	Right-of-Way Management	5%		\$6,000
	RIGHT-OF-WAY SUBTOTAL			\$117,000
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$1,401,000
	Preliminary Project Development (10% of total Construction Cost)			\$129,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$193,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$193,000
	Contingency (20% of total Construction Cost)			\$257,000
	TOTAL PROJECT COSTS			\$2,173,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2010 COST ESTIMATES**

Location: #432. Alicia Pkwy at Muirlands Blvd

Date: 9/20/2010

Mitigation: + Add 2nd EB, WB & SB LT lane & convert SB RT lane to 4th T lane

Originally Estimated by: RBF, PBS&J

Revised by: PM

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$340,000
2	Clear & Grub	\$12200 / AC	0.5	\$6,000
3	Earthwork	\$46.00 / CY	3,700	\$170,000
4	Remove Striping	\$13.00 / LF	9,100	\$118,000
5	Remove Curb & Gutter	\$36.00 / LF	3,000	\$108,000
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00/ SF	20,100	\$101,000
8	Remove Pavement	\$5.00 / SF	0	\$0
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00/ LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	62	\$81,000
13	Sawcut	\$1.25 / LF	3,000	\$4,000
14	Relocate Street Light	\$5,700.00 / EA	4	\$23,000
15	Relocate Traffic Signal System	\$225,000.00 / EA	1	\$225,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	7	\$2,000
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	4	\$39,000
22	Relocate Fire Hydrant	\$5,000.00 / EA	2	\$10,000
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	13	\$12,000
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	3	\$30,000
28	Adjust Manhole to Grade	\$1,500.00 / EA	3	\$5,000
29	Adjust Water Meter	\$610.00 / EA	4	\$2,000
30	Adjust Water Valve	\$610.00 / EA	3	\$2,000
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	2	\$1,000
32	Modify Driveway	\$6,100.00 / LS	2	\$12,000
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	20,000	\$120,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	99,600	\$40,000
37	Construct Striping & Marking	\$2.00 / LF	9,100	\$18,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	3,000	\$57,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	20,000	\$181,000
45	Construct Wheelchair Ramp	\$5,200.00 / EA	3	\$16,000
46	Construct Retaining Wall	\$114 / SF	11,300	\$1,288,000
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$214,000
54	SWPPP Plan and Implementation	6%	1	\$173,000
CONSTRUCTION SUBTOTAL				\$3,398,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$122,000
CONSTRUCTION SUBTOTAL				\$3,520,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$271,000
CONSTRUCTION SUBTOTAL				\$3,249,000
	Right-of-Way	\$71.66 / SF	20,000	\$1,433,000
	Right-of-Way Management	5%		\$72,000
RIGHT-OF-WAY SUBTOTAL				\$1,505,000
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST				\$4,754,000
	Preliminary Project Development (10% of total Construction Cost)			\$325,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$488,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$488,000
	Contingency (20% of total Construction Cost)			\$650,000
TOTAL PROJECT COSTS				\$6,705,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #557. Ridge Valley at Irvine Blvd (Now #558)
Mitigation: + Add 2nd EB LT lane

Date: 2/25/2013
Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$11,000
2 Clear & Grub	\$12200 / AC	0.1	\$1,000
3 Earthwork	\$46.00 / CY	388	\$18,000
4 Remove Striping	\$13.00 / LF	0	\$0
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	480	\$18,000
7 Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	480	\$1,000
14 Relocate Street Light	\$5,700.00 / EA	0	\$0
15 Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	4,330	\$26,000
35 Construct AC Overlay	\$2.50 / SF	1,650	\$4,000
36 Construct Slurry Seal	\$0.4 / SF	5,980	\$2,000
37 Construct Striping & Marking	\$2.00 / LF	330	\$1,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	477	\$15,000
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$7,000
54 SWPPP Plan and Implementation	6%	1	\$6,000
CONSTRUCTION SUBTOTAL			\$110,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$4,000
CONSTRUCTION SUBTOTAL			\$114,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$9,000
CONSTRUCTION SUBTOTAL			\$105,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$7,000
CONSTRUCTION SUBTOTAL			\$98,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$3,000
CONSTRUCTION SUBTOTAL			\$95,000
California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$8,000
CONSTRUCTION SUBTOTAL			\$103,000
Right-of-Way	\$79.00 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$103,000
Preliminary Project Development (10% of total Construction Cost)			\$11,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$16,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$16,000
Contingency (20% of total Construction Cost)			\$21,000
TOTAL PROJECT COSTS			\$167,000

* Notes:

A. This intersection has not been constructed. Cost estimate was based on 2003 layout.

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: Segment 2: Jamboree Rd (Portola Pkwy to Irvine City Limits north of Tustin Ranch Rd)

Date: 8/9/2012

Originally Estimated by: RBF

Mitigation: + Improve to 6 lanes (unfunded planned improvements)

Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$255,000
2	Clear & Grub	\$12200 / AC	0.2	\$2,000
3	Earthwork	\$329,400.00 / LS	1	\$329,000
4	Remove Striping	\$51,972.00 / LS	0.5	\$26,000
5	Remove Curb & Gutter	\$86,620.00 / LS	1	\$87,000
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00/ SF	0	\$0
8	Remove Pavement	\$103,944.00 / LS	1	\$104,000
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00/ LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	21	\$27,000
13	Sawcut	\$34,648.00 / LS	1	\$35,000
14	Relocate Street Light	\$5,700.00 / EA	0	\$0
15	Relocate Traffic Signal System	\$225,000.00 / EA	1	\$225,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	1	\$6,000
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$866,566.00 / LS	1	\$867,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$51,972.00 / LS	0.5	\$26,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$259,982.00 / LS	1	\$260,000
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$103,944.00 / LS	1	\$104,000
44	Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45	Construct Wheelchair Ramp	\$1,830.00 / EA	0	\$0
46	Construct Retaining Wall	\$51,972.00 / LS	1	\$26,000
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	8% (\$2,000 Min)	1	\$42,000
54	SWPPP Plan and Implementation	6%	1	\$130,000
	CONSTRUCTION SUBTOTAL			\$2,551,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$92,000
	CONSTRUCTION SUBTOTAL			\$2,643,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$204,000
	CONSTRUCTION SUBTOTAL			\$2,439,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$159,000
	CONSTRUCTION SUBTOTAL			\$2,280,000
	California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$66,000
	CONSTRUCTION SUBTOTAL			\$2,214,000
	California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$195,000
	CONSTRUCTION SUBTOTAL			\$2,409,000
	Right-of-Way	\$79.00 / SF	0	\$0
	Right-of-Way Management	5%		\$0
	RIGHT-OF-WAY SUBTOTAL			\$0
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$2,409,000
	Preliminary Project Development (10% of total Construction Cost)			\$241,000
	Design Engineering/Administration Costs (15% of total Construction Cost)			\$362,000
	Construction Engineering Costs/Administration (15% of total Construction Cost)			\$362,000
	Contingency (20% of total Construction Cost)			\$482,000
	TOTAL PROJECT COSTS			\$3,856,000

* Unit cost for Retaining Wall different but consistent with 2003 Cost Estimates

* Notes:

- A. This project includes Location #123, improvement of Jamboree Rd to six lanes at Tustin Ranch Rd.
- B. Refer to the Location #123 cost estimate for restriping costs at that intersection.

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: Segment 3: Jeffrey Rd (Future extension from Portola Pkwy to SR-241)

Date: 8/9/2012

Mitigation: + Construct as 4-lane primary arterial
(unfunded planned improvements)

Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$1,624,000
2 Clear & Grub	\$12200 / AC	0.0	\$0
3 Earthwork	\$2,977,898.00 / LS	1	\$2,978,000
4 Remove Striping	\$13.00 / LF	0	\$0
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	0	\$0
14 Relocate Street Light	\$5,700.00 / EA	66	\$376,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	840,000	\$5,040,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$2.00 / LF	49,000	\$98,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	20,000	\$380,000
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Drainage System	\$1,708,000.00 / SF	1	\$1,708,000
43 Construct Slope Landscaping	\$.80 / SF	915,200	\$732,000
44 Construct PCC Sidewalk	\$9.05 / SF	160,000	\$1,448,000
45 Construct Erosion Control	\$1,220.00 / AC	21	\$26,000
46 Santiago Aqueduct Encasement Protection	\$610,000.00 / LS	1	\$610,000
47 Utility Protection Allowance	\$122,000.00 / LS	1	\$122,000
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$270,000
54 SWPPP Plan and Implementation	6%	1	\$827,000
CONSTRUCTION SUBTOTAL			\$16,239,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$585,000
CONSTRUCTION SUBTOTAL			\$16,824,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$1,295,000
CONSTRUCTION SUBTOTAL			\$15,529,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$1,009,000
CONSTRUCTION SUBTOTAL			\$14,520,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$421,000
CONSTRUCTION SUBTOTAL			\$14,099,000
California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$1,241,000
CONSTRUCTION SUBTOTAL			\$15,340,000
Right-of-Way	\$79.00 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$15,340,000
Preliminary Project Development (10% of total Construction Cost)			\$1,534,000
Design Engineering/Administration Costs (15% of total Construction Cost)			\$2,301,000
Construction Engineering Costs/Administration (15% of total Construction Cost)			\$2,301,000
Contingency (20% of total Construction Cost)			\$3,068,000
TOTAL PROJECT COSTS			\$24,544,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2010 COST ESTIMATES**

Location: Segment 4: SR-133 (I-405 to Lake Forest)
Mitigation: + Improve to 6 lanes

Date: 9/24/2010
Originally Estimated by: RBF(2003,2006)
Revised by: PM

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$180,000
2 Clear & Grub	\$1,000 / CY	2.0	\$2,000
3 Earthwork	\$10.00 / CY	4,300	\$43,000
4 Remove Striping	\$3.00 / LF	0	\$0
5 Remove Curb & Gutter	\$3.00 / LF	0	\$0
6 Remove Median Curb	\$3.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$2.00 / SF	0	\$0
8 Remove Pavement	\$1.50 / SF	46,600	\$70,000
9 Remove Channel	\$15.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$10.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$55.00 / LF	0	\$0
12 Remove & Relocate Tree	\$500/ EA	0	\$0
13 Sawcut	\$1.00 / LF	9,450	\$9,000
14 Relocate Street Light	\$3,000 / EA	0	\$0
15 Relocate Traffic Signal System	\$140,000 / EA	1	\$140,000
16 Relocate Freeway Sign (2 post)	\$1,000 / EA	0	\$0
17 Relocate Sign (1 post)	\$200 / EA	0	\$0
18 Reconstruct Overhead Sign	\$35,000 / EA	0	\$0
19 Relocate Call Box	\$1,000 / EA	0	\$0
20 Relocate Power Pole	\$15,000 / EA	0	\$0
21 Relocate Catch Basin	\$5,000 / EA	10	\$50,000
22 Relocate Fire Hydrant	\$1,000 / EA	0	\$0
23 Relocate Bus Bench	\$600 / EA	0	\$0
24 Relocate Monument Wall	\$5,000 / EA	0	\$0
25 Relocate Utility Boxes	\$500 / EA	0	\$0
26 Relocate Main Water Valve	\$10,000 / EA	0	\$0
27 Relocate Utility Vault	\$600 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$500 / EA	0	\$0
30 Adjust Water Valve	\$500 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$500 / EA	0	\$0
32 Modify Driveway	\$5,000 / LS	0	\$0
33 Construct PCC Pavement	\$6.00 / SF	0	\$0
34 Construct AC Pavement	\$4.50 / SF	135,000	\$608,000
35 Construct AC Overlay	\$1.50 / SF	0	\$0
36 Construct Slurry Seal	0.25 / SF	0	\$0
37 Construct Striping & Marking	\$4.00 / SF	8,930	\$36,000
38 Construct AC Dike	\$2.00 / LF	0	\$0
39 Construct Curb & Gutter	\$15.00 / LF	0	\$0
40 Construct Concrete Barrier	\$50.00 / LF	0	\$0
41 Construct Median Curb	\$11.00 / LF	0	\$0
42 Construct Median Concrete	\$6.00 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$10.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$3.00 / SF	0	\$0
45 Construct Wheelchair Ramp	\$1,500 / SF	0	\$0
46 Construct Retaining Wall	\$40.00 / SF	0	\$0
47 Construct Storm Drain Main	\$100.00 / LF	0	\$0
48 Construct RCB	\$70.00 / SF	52	\$4,000
49 Construct Concrete V-Ditch	\$15.00 / SF	0	\$0
50 Construct Bridge Widening	\$175.00 / SF	0	\$0
51 Utilities	\$540,000 / SF	1	\$540,000
52 Apply ATMS	\$65,000 / LS	0	\$0
53 Traffic Control	2% (\$2,000 Min)	1	\$30,000
54 SWPPP Plan and Implementation	6%	1	\$92,000
56 Additional Caltrans Requirement	600,000 / LS	1	\$600,000
CONSTRUCTION SUBTOTAL			\$2,404,000
California Highway Price Index Increase	134.2%	CCI 2003 --> 2007	\$3,226,000
CONSTRUCTION SUBTOTAL			\$5,630,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$203,000
CONSTRUCTION SUBTOTAL			\$5,833,000
California Highway Price Index			
ACTUAL CONSTRUCTION COST		2010	\$4,953,105
Right-of-Way	\$71.66 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			
Preliminary Project Development (Actual Expenditure)			
Design Engineering/Administration Costs (Actual Expenditure)			
Construction Engineering Costs/Administration			
Contingency			
TOTAL PROJECT COSTS (ACTUAL COSTS)			\$4,953,105

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #1, I-5 (Sand Canyon Ave to Jeffrey Rd) **Date:** 8/9/2012
Mitigation: + Add 6th NB (2012) and SB mixed-flow lanes and add 2nd drop lane **Originally Estimated by:** RBF
 from I-5 to the SB off ramp at Sand Canyon Ave **Revised by:** HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% / (\$2,000 Min)	1	\$723,000
2 Clear & Grub	\$12200 / AC	2.0	\$24,000
3 Earthwork	\$46.00 / CY	18,133	\$834,000
4 Remove Striping	\$13.00 / LF	13,600	\$177,000
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8 Roadway Excavation (2 ft thick)	\$32.00 / CY	5,037	\$161,000
9 Remove Channel	\$55.00 / LF	600	\$33,000
10 Remove/Replace Chain Link Fence	\$31.00 / LF	100	\$3,000
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	2,400	\$206,000
12 Remove & Relocate Tree	\$1,300.00 / EA	3	\$4,000
13 Sawcut	\$1.25 / LF	8,000	\$10,000
14 Relocate Street Light	\$5,700.00 / EA	14	\$80,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	0.00	\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	7	\$5,000
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18A Overhead Sign (2 posts)	\$240,000.00 / EA	2	\$480,000
18 B Overhead Sign (1 post)	\$140,000.00 / EA	1	\$140,000
19 Relocate Call Box	\$2,051.00/EA	2	\$4,000
20 Relocate Power Pole	\$25,000 / EA	2	\$50,000
21 Relocate Catch Basin	\$9,760.00 / EA	11	\$107,000
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	149,600	\$898,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	75,600	\$30,000
37 Construct Striping & Marking	\$2.00 / LF	20,400	\$41,000
38 Construct AC Dike	\$4.00 / LF	2,800	\$11,000
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	400	\$118,000
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	1,600	\$182,000
47 Construct Storm Drain Main	\$122.00 / LF	1,600	\$195,000
48 Construct RCB	\$549.00 / CY	600	\$329,000
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	8% (\$2,000 Min)	1	\$330,000
54 Remove Pavement Marker	\$20,000.00 / LS	1	\$20,000
55 Remove MBGR	\$10.00 / LF	2,400	\$24,000
56 Drainage Mobilization	\$48,800.00 / LS	1	\$49,000
57 Asphalt Concrete Base (8 in.)	\$90.00 / TON	5,881	\$529,000
58 Class 2 Aggregate Base (20 in.)	\$60.00 / CY	9,234	\$554,000
59 Pavement Marker	\$20,000.00 / LS	1	\$20,000
60 Temporary Pavement Marker	\$15,000.00 / LS	1	\$15,000
61 Temporary Striping	\$20,000.00 / LS	1	\$20,000
62 Temporary K-rail	\$19.00 / LF	2,800	\$53,000
63 Temporary Crash Cushion	\$325.00 / EA	10	\$3,000
64 Overhead CMS	\$140,000.00 / EA	1	\$140,000
65 Remove Overhead Signs	\$6,000.00 / EA	7	\$42,000
66 Lead Investigation	\$30,000.00 / LS	1	\$30,000
67 RE Office	\$6,000.00 / MO	12	\$72,000
68 Construction Area Sign	\$40,000.00 / LS	1	\$40,000
69 Portable CMS	\$50,000.00 / LS	1	\$50,000
70 CHP/COZEPP	\$50,000.00 / LS	1	\$50,000
71 Traffic Management Plan	\$70,000.00 / LS	1	\$70,000
72 Public Awareness Campaign	\$10,000.00 / LS	1	\$10,000
73 SWPPP Plan and Implementation	6%	1	\$267,000
CONSTRUCTION SUBTOTAL			\$7,233,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$260,000
CONSTRUCTION SUBTOTAL			\$7,493,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$577,000
CONSTRUCTION SUBTOTAL			\$6,916,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$450,000
CONSTRUCTION SUBTOTAL			\$6,466,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$188,000
CONSTRUCTION SUBTOTAL			\$6,278,000
California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$552,000
CONSTRUCTION SUBTOTAL			\$6,830,000
Right-of-Way	\$79.00 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$6,830,000
Preliminary Project Development (15% of total construction cost)			\$1,025,000
Design Engineering/Administration Costs (15% of total construction cost)			\$1,025,000
Construction Engineering Costs/Administration (15% of total construction cost)			\$1,025,000
Contingency (20% of total construction cost)			\$1,366,000
TOTAL PROJECT COSTS			\$11,271,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #2, I-405 (Sand Canyon Ave to Jeffrey Rd)
Mitigation: + Add 5th NB and SB mixed-flow (general purpose) lanes

Date: 8/9/2012
Originally Estimated by: RBF, PBS&J
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$33,000
2 Clear & Grub	\$12200 / AC	0.0	\$0
3 Earthwork	\$46.00 / CY	0	\$0
4 Remove Striping	\$13.00 / LF	5,800	\$75,000
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	0	\$0
14 Relocate Street Light	\$5,700.00 / EA	0	\$0
15 Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	0	\$0
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$2.00 / LF	5,800	\$12,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control Systems	\$30,000.00/ LS	1	\$30,000
54 Remove Pavement Marker	\$20,000.00/ LS	1	\$20,000
55 Pavement Marker	\$20,000.00/ LS	1	\$20,000
56 Temporary Pavement Marker	\$10,000.00/ LS	1	\$10,000
57 Temporary Striping	\$10,000.00/ LS	1	\$10,000
58 Temporary K-rail	\$19.00/ LF	2,900	\$55,000
59 Temporary Crash Cushion	\$325.00/ EA	5	\$2,000
60 Lead Investigation	\$10,000.00/ LS	1	\$10,000
61 RE Office	\$6,000.00/ Mon	1	\$6,000
62 Construction Area Sign	\$10,000.00/ LS	1	\$10,000
63 CHP/COZEEP	\$5,000.00/ LS	1	\$5,000
64 Traffic Management Plan	\$5,000.00/ LS	1	\$5,000
65 Portable CMS	\$10,000.00/ LS	1	\$10,000
66 SWPPP Plan and Implementation	\$20,000.00/ LS	1	\$20,000
CONSTRUCTION SUBTOTAL			\$333,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$12,000
CONSTRUCTION SUBTOTAL			\$345,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$27,000
CONSTRUCTION SUBTOTAL			\$318,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$21,000
CONSTRUCTION SUBTOTAL			\$297,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$9,000
CONSTRUCTION SUBTOTAL			\$288,000
California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$25,000
CONSTRUCTION SUBTOTAL			\$313,000
Right-of-Way	\$79.00 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$313,000
Preliminary Project Development (15% of total construction cost)			\$47,000
Design Engineering/Administration Costs (15% of total construction cost)			\$47,000
Construction Engineering Costs/Administration (15% of total construction cost)			\$47,000
Contingency (20% of total construction cost)			\$63,000
TOTAL PROJECT COSTS			\$517,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #5, I-5 at Culver Dr (SB off ramp)

Date: 8/9/2012

Mitigation: + Add 2nd auxiliary lane from I-5 to the off ramp

Originally Estimated by: RBF

Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$388,000
2	Clear & Grub	\$12200 / AC	1.0	\$12,000
3	Earthwork	\$46.00 / CY	4,000	\$184,000
4	Remove Striping	\$13.00 / LF	2,400	\$31,000
5	Remove Curb & Gutter	\$36.00 / LF	0	\$0
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8	Roadway Excavation (2 ft thick)	\$35.00 / CY	2,622	\$92,000
9	Remove Channel	\$50.00 / LF	1,800	\$90,000
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	225	\$19,000
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	3,600	\$5,000
14	Relocate Street Light	\$5,700.00 / EA	5	\$29,000
15	Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	2	\$1,000
17	Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18A	Overhead Sign (2 posts)	\$240,000.00 / EA	0	\$0
18B	Overhead Sign (1 post)	\$140,000.00 / EA	2	\$280,000
19	Relocate Call Box	\$2,051.00/EA	2	\$4,000
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	4	\$39,000
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00 / EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$240.00 / CY	2,424	\$582,000
34	Construct AC Pavement	\$6.00 / SF	0	\$0
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$2.50 / LF	7,200	\$18,000
38	Construct AC Dike	\$4.00 / LF	650	\$3,000
39	Construct Curb & Gutter	\$19.00 / LF	0	\$0
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45	Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	600	\$73,000
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$450.00 / CY	283	\$127,000
50	Construct Bridge Widening	\$500.00 / SF	2,000	\$1,000,000
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Remove Pavement Marker	\$5,000.00 / LS	1	\$5,000
54	Remove MBGR	\$15.00 / LF	225	\$3,000
55	Class 2 Aggregate Base (4 in)	\$60.00 / CY	950	\$57,000
56	Cement Treated Permeable Base (4 in)	\$100.00 / CY	950	\$95,000
57	Drainage Mobilization	\$50,138.00 / LS	1	\$50,000
58	Pavement Marker	\$10,000.00 / LS	1	\$10,000
59	Temporary Pavement Marker	\$8,000.00 / LS	1	\$8,000
60	Temporary Striping	\$10,000.00 / LS	1	\$10,000
61	Temporary K-rail	\$22.00 / LF	1,000	\$22,000
62	Remove Overhead Signs	\$6,000.00 / EA	2	\$12,000
63	Lead Investigation	\$25,000.00 / LS	1	\$25,000
64	RE Office	\$6,000.00 / MON	12	\$72,000
65	Portable CMS	\$35,000.00 / LS	1	\$35,000
66	Construction Area Sign	\$30,000.00 / LS	1	\$30,000
67	Traffic Control	\$200,000.00 / LS	1	\$200,000
68	CHP/COZEPP	\$30,000.00 / LS	1	\$30,000
69	Traffic Management Plan	\$40,000.00 / LS	1	\$40,000
70	Public Awareness Campaign	\$10,000.00 / LS	1	\$10,000
71	SWPPP Plan and Implementation	\$140,000.00 / IS	1	\$193,000
	CONSTRUCTION SUBTOTAL			\$3,884,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$140,000
	CONSTRUCTION SUBTOTAL			\$4,024,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$310,000
	CONSTRUCTION SUBTOTAL			\$3,714,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$241,000
	CONSTRUCTION SUBTOTAL			\$3,473,000
	California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$101,000
	CONSTRUCTION SUBTOTAL			\$3,372,000
	California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$297,000
	CONSTRUCTION SUBTOTAL			\$3,669,000
	Right-of-Way	\$79.00 / SF	0	\$0
	Right-of-Way Management	5%		\$0
	RIGHT-OF-WAY SUBTOTAL			\$0
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$3,669,000
	Preliminary Project Development (15% of total construction cost)			\$550,000
	Design Engineering/Administration Costs (15% of total construction cost)			\$550,000
	Construction Engineering Costs/Administration (15% of total construction cost)			\$550,000
	Contingency (20% of total construction cost)			\$734,000
	TOTAL PROJECT COSTS			\$6,053,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #3, I-5 at Alton Pkwy (SB off ramp)

Date: 8/9/2012

Mitigation: + Add 2nd auxiliary lane from I-5 to the off ramp

Originally Estimated by: RBF, PBS&J

Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$293,000
2 Clear & Grub	\$12200 / AC	0.6	\$7,000
3 Earthwork	\$46.00 / CY	7,900	\$363,000
4 Remove Striping	\$3.8 / LF	2,100	\$6,000
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8 Remove Pavement (2 ft thick)	\$5.00 / SF	2,014	\$10,000
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$65.00 / LF	450	\$29,000
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	2,700	\$3,000
14 Relocate Street Light	\$5,700.00 / EA	7	\$40,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	2	\$1,000
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18A Overhead Sign (2 posts)	\$240,000.00 / EA	2	\$480,000
18B Overhead Sign (1 post)	\$140,000.00 / EA	1	\$140,000
19 Relocate Call Box	\$2,051.00/EA	1	\$2,000
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	7	\$68,000
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement (7 in.)	\$100.00/ TON	1,989	\$199,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$2.00 / LF	6,000	\$12,000
38 Construct AC Dike	\$4.00 / LF	2,100	\$8,000
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	1,900	\$232,000
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control Systems	\$102,000.00/ LS	1	\$102,000
54 Traffic Management Plan	\$35,000.00/ LS	1	\$35,000
55 Remove Pavement Marker	\$5,000.00/ LS	1	\$5,000
56 Remove MBGR	\$15.00/ LF	450	\$7,000
57 Asphalt Concrete Base (8 in.)	\$100.00/ TON	2,272	\$227,000
58 Class 2 Aggregate Base (20 in.)	\$65.00/ CY	3,512	\$228,000
59 Drainage Mobilization	\$57,950.00/ LS	1	\$58,000
60 Pavement Marker	\$7,000.00/ LS	1	\$7,000
61 Temporary Pavement Marker	\$7,000.00/ LS	1	\$7,000
62 Temporary Striping	\$9,000.00/ LS	1	\$9,000
63 Temporary K-rail	\$19.00/ LS	2,100	\$40,000
64 Temporary Crash Cushion	\$250.00/ EA	10	\$3,000
65 Remove Overhead Signs	\$6,000.00/ EA	2	\$12,000
66 Lead Investigation	\$30,000.00/ LS	1	\$30,000
67 RE Office	\$6,000.00/ MON	10	\$60,000
68 Construction Area Sign	\$30,000.00/ LS	1	\$30,000
69 Portable CMS	\$35,000.00/ LS	1	\$35,000
70 CHP/COZEPP	\$30,000.00/ LS	1	\$30,000
71 Public Awareness Campaign	\$10,000.00/ LS	1	\$10,000
72 SWPPP Plan and Implementation	\$100,000.00/ LS	1	\$100,000
CONSTRUCTION SUBTOTAL			\$2,928,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$105,000
CONSTRUCTION SUBTOTAL			\$3,033,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$234,000
CONSTRUCTION SUBTOTAL			\$2,799,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$182,000
CONSTRUCTION SUBTOTAL			\$2,617,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$76,000
CONSTRUCTION SUBTOTAL			\$2,541,000
California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$224,000
CONSTRUCTION SUBTOTAL			\$2,765,000
Right-of-Way	\$79.00 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$2,765,000
Preliminary Project Development (15% of total construction cost)			\$415,000
Design Engineering/Administration Costs (15% of total construction cost)			\$415,000
Construction Engineering Costs/Administration (15% of total construction cost)			\$415,000
Contingency (20% of total construction cost)			\$553,000
TOTAL PROJECT COSTS			\$4,563,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #4, I-5 at Bake Pkwy (SB off ramp)

Date: 8/9/2012

Mitigation: Widen Connector ramps between I-5 and I-405 from 1 to 2 lanes

Originally Estimated by: RBF, PBS&J

Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$216,000
2 Clear & Grub	\$12200 / AC	0.2	\$2,000
3 Earthwork	\$30.00/ CY	900	\$27,000
4 Remove Striping	\$13.00 / LF	800	\$10,000
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00/ SF	0	\$0
8 Remove Excavation (2 ft thick)	\$35.00/ CY	2,000	\$70,000
9 Remove Channel	\$55.00/ LF	300	\$17,000
10 Remove/Replace Chain Link Fence	\$31.00 / LF	300	\$9,000
11 Reconstruct Metal Beam Guard Rail	\$96.00/ LF	80	\$7,000
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	1,600	\$2,000
14 Relocate Street Light	\$5,700.00 / EA	2	\$11,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18A Overhead Sign (2 posts)	\$240,000.00 / EA	2	\$480,000
18B Overhead Sign (1 post)	\$140,000.00/ EA	1	\$140,000
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement (7 in.)	\$100.00/ SF	1,442	\$144,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$3.00/ LF	3,500	\$11,000
38 Construct AC Dike	\$4.00 / LF	1,100	\$4,000
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	2,000	\$228,000
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$500.00/ CY	47	\$24,000
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	\$120,000.00/ LS	1	\$120,000
54 Construction Area Sign	\$25,000.00/ LS	1	\$25,000
55 Portable CMS	\$30,000.00/ LS	1	\$30,000
56 Remove Pavement Marker	\$2,500.00/ LS	1	\$3,000
57 Remove MBGR	\$20.00/ LF	80	\$2,000
58 Asphalt Concrete Base (8 in.)	\$100.00/ TON	1,442	\$144,000
59 Class 2 Aggregate Base (20 in.)	\$65.00/ CY	2,228	\$145,000
60 Drainage Mobilization	\$5,875.00/ LS	1	\$6,000
61 Pavement Marker	\$5,000.00/ LS	1	\$5,000
62 Temporary Pavement Marker	\$3,000.00/ LS	1	\$3,000
63 Temporary Striping	\$3,000.0000/ LS	1	\$3,000
64 Temporary K-rail	\$19.00/ LF	2,000	\$38,000
65 Temporary Crash Cushion	\$325.00/ EA	5	\$2,000
66 Remove Overhead Signs	\$6,000.00/ EA	2	\$12,000
67 Lead Investigation	\$25,000.00/ LS	1	\$25,000
68 RE Office	\$6,000.00/ MON	6	\$36,000
69 CHP/COZEPP	\$25,000.00/ LS	1	\$25,000
70 Traffic Management Plan	\$30,000.00/ LS	1	\$30,000
71 Public Awareness Campaign	\$10,000.00/ LS	1	\$10,000
72 SWPPP Plan and Implementation	\$90,000.00/ LS	1	\$90,000
CONSTRUCTION SUBTOTAL			\$2,156,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$78,000
CONSTRUCTION SUBTOTAL			\$2,234,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$172,000
CONSTRUCTION SUBTOTAL			\$2,062,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$134,000
CONSTRUCTION SUBTOTAL			\$1,928,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$56,000
CONSTRUCTION SUBTOTAL			\$1,872,000
California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$165,000
CONSTRUCTION SUBTOTAL			\$2,037,000
Right-of-Way	\$79.00 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$2,037,000
Preliminary Project Development (15% of total construction cost)			\$306,000
Design Engineering/Administration Costs (15% of total construction cost)			\$306,000
Construction Engineering Costs/Administration (15% of total construction cost)			\$306,000
Contingency (20% of total construction cost)			\$407,000
TOTAL PROJECT COSTS			\$3,362,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #6. I-5 at El Toro Rd (NB loop on ramp)

Date: 8/9/2012

Mitigation: + Convert HOV preferential lane to a 2nd metered mixed flow lane

Originally Estimated by: RBF

Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$16,000
2 Clear & Grub	\$12200 / AC	0.0	\$0
3 Earthwork	\$46.00 / CY	0	\$0
4 Remove Striping	\$13.00 / LF	600	\$8,000
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	0	\$0
14 Relocate Street Light	\$5,700.00 / EA	0	\$0
15 Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	0	\$0
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	20,200	\$8,000
37 Construct Striping & Marking	\$8.00/ LF	600	\$5,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control Systems	\$30,000.00/ LS	1	\$30,000
54 Remove Pavement Marker	\$4,000.00/ LS	1	\$4,000
55 Pavement Marker	\$4,000.00/ LS	1	\$4,000
56 Temporary Pavement Marker	\$4,000.00/ LS	1	\$4,000
57 Temporary Striping	\$4,000.00/ LS	1	\$4,000
58 Temporary K-rail	\$20.00/ LF	600	\$12,000
59 Temporary Crash Cushion	\$325.00/ EA	5	\$2,000
60 Lead Investigation	\$10,000.00/ LS	1	\$10,000
61 RE Office	\$6,000.00/ MON	1	\$6,000
62 Construction Area Sign	\$10,000.00/ LS	1	\$10,000
63 Portable CMS	\$10,000.00/ LS	1	\$10,000
64 CHP/COZEEP	\$5,000.00/ LS	1	\$5,000
65 Traffic Management Plan	\$5,000.00/ LS	1	\$5,000
66 SWPPP Plan and Implementation	\$20,000.00/ LS	1	\$20,000
CONSTRUCTION SUBTOTAL			\$163,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$6,000
CONSTRUCTION SUBTOTAL			\$169,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$13,000
CONSTRUCTION SUBTOTAL			\$156,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$10,000
CONSTRUCTION SUBTOTAL			\$146,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$4,000
CONSTRUCTION SUBTOTAL			\$142,000
California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$12,000
CONSTRUCTION SUBTOTAL			\$154,000
Right-of-Way	\$79.00 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$154,000
Preliminary Project Development (15% of total construction cost)			\$23,000
Design Engineering/Administration Costs (15% of total construction cost)			\$23,000
Construction Engineering Costs/Administration (15% of total construction cost)			\$23,000
Contingency (20% of total construction cost)			\$31,000
TOTAL PROJECT COSTS			\$254,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #7. I-5 at El Toro Rd (SB off ramp) Date: 8/9/2012
Mitigation: + Add 2nd auxiliary lane from I-5 to the off ramp by restriping mainline Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$141,000
2 Clear & Grub	\$12200 / AC	0.0	\$0
3 Earthwork	\$46.00 / CY	0	\$0
4 Remove Striping	\$7.00 / LF	56,500	\$396,000
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	0	\$0
14 Relocate Street Light	\$5,700.00 / EA	0	\$0
15 Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	0	\$0
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$2.50 / LF	56,500	\$141,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	\$100,000.00/ LS	1	\$100,000
54 Remove Pavement Marker	\$100,000.00/ LS	1	\$100,000
55 Temporary Pavement Marker	\$100,000.00/ LS	1	\$100,000
56 Temporary Striping	\$120,000.00/ LS	1	\$120,000
57 Temporary K-rail	\$17.00/ LF	5,800	\$99,000
58 Temporary Crash Cushion	\$325.00/ EA	10	\$3,000
59 Lead Investigation	\$30,000.00/ LS	1	\$30,000
60 RE Office	\$6,000.00/ MON	3	\$18,000
61 Construction Area Sign	\$30,000.00/ LS	1	\$30,000
62 Portable CMS	\$30,000.00/ LS	1	\$30,000
63 CHP/COZEEP	\$25,000.00/ LS	1	\$25,000
64 Traffic Management Plan	\$25,000.00/ LS	1	\$25,000
65 Public Awareness Campaign	\$10,000.00/ LS	1	\$10,000
66 SWPPP Plan and Implementation	\$40,000.00/ LS	1	\$40,000
CONSTRUCTION SUBTOTAL			\$1,408,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$51,000
CONSTRUCTION SUBTOTAL			\$1,459,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$112,000
CONSTRUCTION SUBTOTAL			\$1,347,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$88,000
CONSTRUCTION SUBTOTAL			\$1,259,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$37,000
CONSTRUCTION SUBTOTAL			\$1,222,000
California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$108,000
CONSTRUCTION SUBTOTAL			\$1,330,000
Right-of-Way	\$79.00 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$1,330,000
Preliminary Project Development (15% of total construction cost)			\$200,000
Design Engineering/Administration Costs (15% of total construction cost)			\$200,000
Construction Engineering Costs/Administration (15% of total construction cost)			\$200,000
Contingency (20% of total construction cost)			\$266,000
TOTAL PROJECT COSTS			\$2,196,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #8. I-5 at Jamboree Rd (NB off ramp)

Date: 8/9/2012

Mitigation: + Add 2nd auxiliary lane from I-5 to the off ramp

Originally Estimated by: RBF, PBS&J

Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% / (\$2,000 Min)	1	\$343,000
2 Clear & Grub	\$12200 / AC	0.5	\$6,000
3 Earthwork	\$46.00 / CY	2,100	\$97,000
4 Remove Striping	\$13.00 / LF	1,500	\$20,000
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8 Remove Excavation (2 ft thick)	\$30.00 / CY	4,885	\$147,000
9 Remove Channel	\$50.00 / LF	1,500	\$75,000
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	150	\$13,000
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	1,700	\$2,000
14 Relocate Street Light	\$5,700.00 / EA	6	\$34,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	4	\$3,000
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18A Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
18B Overhead Sign (2 posts)	\$160,000.00 / EA	2	\$320,000
19 Relocate Call Box	\$2,051.00/EA	2	\$4,000
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	4	\$39,000
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$430.00 / CY	93	\$40,000
34 Construct AC Pavement	\$6.00 / SF	37,600	\$226,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$3.80 / LF	4,200	\$16,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	400	\$49,000
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$500.00/CY	63	\$32,000
50 Construct Bridge Widening	\$500.00 / SF	2,000	\$1,000,000
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control Systems	\$200,000.00/ LS	1	\$200,000
54 Remove Pavement Marker	\$4,000.00/ LS	1	\$4,000
55 Remove MBGR	\$17.00 / LF	150	\$3,000
56 Asphalt Concrete Base (8")	\$90.00/ TON	1,504	\$135,000
57 Class 2 Aggregate Base (20")	\$65.00 / CY	2,320	\$151,000
58 Class 2 Aggregate Base (4")	\$65.00 / CY	37	\$2,000
59 Cement Treated Permeable Base (4")	\$140.00 / CY	37	\$5,000
60 Drainage Mobilization	\$29,835.00/ LS	1	\$30,000
61 Pavement Marker	\$3,000.00/ LS	1	\$3,000
62 Temporary Pavement Marker	\$3,000.00/ LS	1	\$3,000
63 Temporary Striping	\$4,000.00/ LS	1	\$4,000
64 Temporary K-rail	\$19.00 / LF	1,700	\$32,000
65 Temporary Crash Cushion	\$325.00 / EA	5	\$2,000
66 Remove Overhead Signs	\$6,000.00/ EA	2	\$12,000
67 Lead Investigation	\$30,000.00/ LS	1	\$30,000
68 Construction Area Sign	\$30,000.00/ LS	1	\$30,000
69 Portable CMS	\$35,000.00/ LS	1	\$35,000
70 CHP/COZEEP	\$30,000.00/ LS	1	\$30,000
71 Traffic Management Plan	\$40,000.00/ LS	1	\$40,000
72 Public Awareness Campaign	\$10,000.00/ LS	1	\$10,000
73 RE Office	\$6,000.00/ MON	10	\$60,000
74 SWPPP Plan and Implementation	\$140,000.00/ LS	1	\$140,000
CONSTRUCTION SUBTOTAL			\$3,427,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$123,000
CONSTRUCTION SUBTOTAL			\$3,550,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$273,000
CONSTRUCTION SUBTOTAL			\$3,277,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$213,000
CONSTRUCTION SUBTOTAL			\$3,064,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$89,000
CONSTRUCTION SUBTOTAL			\$2,975,000
California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$262,000
CONSTRUCTION SUBTOTAL			\$3,237,000
Right-of-Way	\$79.00 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$3,237,000
Preliminary Project Development (15% of total construction cost)			\$486,000
Design Engineering/Administration Costs (15% of total construction cost)			\$486,000
Construction Engineering Costs/Administration (15% of total construction cost)			\$486,000
Contingency (20% of total construction cost)			\$647,000
TOTAL PROJECT COSTS			\$5,342,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #9. I-5 at Jamboree Rd (SB off ramp)

Date: 8/9/2012

Mitigation: + Add 2nd auxiliary lane from I-5 to the off ramp

Originally Estimated by: RBF, PBS&J

Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% / (\$2,000 Min)	1	\$228,000
2 Clear & Grub	\$12200 / AC	1.0	\$12,000
3 Earthwork	\$46.00 / CY	3,600	\$166,000
4 Remove Striping	\$13.00 / LF	3,500	\$46,000
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8 Remove Excavation (2 ft thick)	\$35.00 / CY	2,585	\$90,000
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	370	\$32,000
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	3,500	\$4,000
14 Relocate Street Light	\$5,700.00 / EA	5	\$29,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	4	\$3,000
17 Relocate Sign (1 post)	\$500.00 / EA	3	\$2,000
18A Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
18B Overhead Sign (1 post)	\$160,000.00 / EA	2	\$320,000
19 Relocate Call Box	\$2,051.00/EA	1	\$2,000
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement (10 in)	\$380.00 / CY	190	\$72,000
34 Construct AC Pavement (7 in)	\$85.00 / TON	2,265	\$193,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	19,600	\$8,000
37 Construct Striping & Marking	\$3.80 / LF	7,000	\$27,000
38 Construct AC Dike	\$4.00 / LF	575	\$2,000
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Drainage	\$50,000.00/ LS	1	\$50,000
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control	\$145,000.00/ LS	1	\$145,000
54 Remove Pavement Marker	\$7,000.00/ LS	1	\$7,000
55 Remove MBGR	\$15.00 / LF	370	\$6,000
56 Asphalt Concrete Base (8 in)	\$85.00/ TON	2,588	\$220,000
57 Class 2 Aggregate Base (20 in)	\$60.00 / CY	3,994	\$240,000
58 Class 2 Aggregate Base (4 in)	\$60.00 / CY	74	\$4,000
59 Cement Treated Permeable Base (4 in)	\$100.00 / CY	74	\$7,000
60 Pavement Marker	\$20,000.00/ LS	1	\$20,000
61 Temporary Pavement Marker	\$13,000.00/ LS	1	\$13,000
62 Temporary Striping	\$20,000.00/ LS	1	\$20,000
63 Temporary K-rail	\$20.00/LF	700	\$14,000
64 Temporary Crash Cushion	\$325.00/ EA	5	\$2,000
65 Remove Overhead Signs	\$6,000.00/ EA	2	\$12,000
66 Lead Investigation	\$25,000.00/ LS	1	\$25,000
67 Construction Area Sign	\$28,000.00/ LS	1	\$28,000
68 Portable CMS	\$32,000.00/ LS	1	\$32,000
69 CHP/COZEEP	\$25,000.00/ LS	1	\$25,000
70 Traffic Management Plan	\$30,000.00/ LS	1	\$30,000
71 Public Awareness Campaign	\$10,000.00/ LS	1	\$10,000
72 RE Office	\$6,000.00/ MON	10	\$60,000
73 SWPPP Plan and Implementation	\$90,000.00/ LS	1	\$72,000
CONSTRUCTION SUBTOTAL			\$2,278,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$82,000
CONSTRUCTION SUBTOTAL			\$2,360,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$182,000
CONSTRUCTION SUBTOTAL			\$2,178,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$142,000
CONSTRUCTION SUBTOTAL			\$2,036,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$59,000
CONSTRUCTION SUBTOTAL			\$1,977,000
California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$174,000
CONSTRUCTION SUBTOTAL			\$2,151,000
Right-of-Way	\$79.00 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$2,151,000
Preliminary Project Development (15% of total construction cost)			\$323,000
Design Engineering/Administration Costs (15% of total construction cost)			\$323,000
Construction Engineering Costs/Administration (15% of total construction cost)			\$323,000
Contingency (20% of total construction cost)			\$430,000
TOTAL PROJECT COSTS			\$3,550,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #10, I-5 at Jeffrey Rd (SB on ramp)
Mitigation: + Convert HOV preferential lane to a 2nd metered mixed flow lane

Date: 8/9/2012
Originally Estimated by: RBF
Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$11,000
2	Clear & Grub	\$12200 / AC	0.0	\$0
3	Earthwork	\$46.00 / CY	0	\$0
4	Remove Striping	\$13.00 / LF	300	\$4,000
5	Remove Curb & Gutter	\$36.00 / LF	0	\$0
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8	Remove Pavement	\$5.00 / SF	0	\$0
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	0	\$0
14	Relocate Street Light	\$5,700.00 / EA	0	\$0
15	Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	0	\$0
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	10,800	\$4,000
37	Construct Striping & Marking	\$9.00 / LF	300	\$3,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	0	\$0
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45	Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control Systems	\$25,000.00/ LS	1	\$25,000
54	Remove Pavement Marker	\$2,000.00/ LS	1	\$2,000
55	Pavement Marker	\$2,000.00/ LS	1	\$2,000
56	Temporary Pavement Marker	\$2,000.00/ LS	1	\$2,000
57	Temporary Striping	\$2,000.00/ LS	1	\$2,000
58	Temporary K-rail	\$20.00/ LF	400	\$8,000
59	Temporary Crash Cushion	\$325.00/ EA	5	\$2,000
60	Lead Investigation	\$10,000.00/ LS	1	\$10,000
61	Construction Area Sign	\$10,000.00/ LS	1	\$10,000
62	Portable CMS	\$10,000.00/ LS	1	\$10,000
63	CHP/COZEEP	\$5,000.00/ LS	1	\$5,000
64	Traffic Management Plan	\$5,000.00/ LS	1	\$5,000
65	RE Office	\$6,000.00/ MON	1	\$6,000
66	SWPPP Plan and Implementation	\$15,000.00/ LS	1	\$2,000
	CONSTRUCTION SUBTOTAL			\$113,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$4,000
	CONSTRUCTION SUBTOTAL			\$117,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$9,000
	CONSTRUCTION SUBTOTAL			\$108,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$7,000
	CONSTRUCTION SUBTOTAL			\$101,000
	California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$3,000
	CONSTRUCTION SUBTOTAL			\$98,000
	California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$9,000
	CONSTRUCTION SUBTOTAL			\$107,000
	Right-of-Way	\$79.00 / SF	0	\$0
	Right-of-Way Management	5%		\$0
	RIGHT-OF-WAY SUBTOTAL			\$0
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$107,000
	Preliminary Project Development (15% of total construction cost)			\$16,000
	Design Engineering/Administration Costs (15% of total construction cost)			\$16,000
	Construction Engineering Costs/Administration (15% of total construction cost)			\$16,000
	Contingency (20% of total construction cost)			\$21,000
	TOTAL PROJECT COSTS			\$176,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #11, I-5 at Sand Canyon Ave (NB on ramp)

Date: 8/9/2012

Mitigation: + Convert HOV preferential lane to a 2nd metered mixed flow lane

Originally Estimated by: RBF

Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$38,000
2	Clear & Grub	\$12200 / AC	0.0	\$0
3	Earthwork	\$46.00 / CY	0	\$0
4	Remove Striping	\$13.00 / LF	700	\$9,000
5	Remove Curb & Gutter	\$36.00 / LF	0	\$0
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8	Remove Pavement	\$5.00 / SF	0	\$0
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	0	\$0
14	Relocate Street Light	\$5,700.00 / EA	0	\$0
15	Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$2,051.00/EA	0	\$0
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement	\$6.00 / SF	0	\$0
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	23,400	\$9,000
37	Construct Striping & Marking	\$8.00 / LF	700	\$6,000
38	Construct AC Dike	\$4.00 / LF	0	\$0
39	Construct Curb & Gutter	\$19.00 / LF	0	\$0
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45	Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46	Construct Retaining Wall	\$114 / SF	0	\$0
47	Construct Storm Drain Main	\$122.00 / LF	0	\$0
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$120,000.00/ LS	1	\$120,000
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control Systems	\$35,000.00/ LS	1	\$35,000
54	Remove Pavement Marker	\$3,500.00/ LS	1	\$4,000
55	Pavement Marker	\$3,500.00/ LS	1	\$4,000
56	Temporary Pavement Marker	\$3,000.00/ LS	1	\$3,000
57	Temporary Striping	\$3,500.00/ LS	1	\$4,000
58	Temporary K-rail	\$20.00/ LF	1,000	\$20,000
59	Temporary Crash Cushion	\$325.00/ EA	5	\$2,000
60	Lead Investigation	\$10,000.00/ LS	1	\$10,000
61	Construction Area Sign	\$20,000.00/ LS	1	\$20,000
62	Portable CMS	\$20,000.00/ LS	1	\$20,000
63	CHP/COZEEP	\$20,000.00/ LS	1	\$20,000
64	Traffic Management Plan	\$25,000.00/ LS	1	\$25,000
65	Public Awareness Campaign	\$10,000.00/ LS	1	\$10,000
66	RE Office	\$6,000.00/ MON	2	\$12,000
67	SWPPP Plan and Implementation	\$15,000.00/ LS	1	\$11,000
CONSTRUCTION SUBTOTAL				\$382,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$14,000
CONSTRUCTION SUBTOTAL				\$396,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$30,000
CONSTRUCTION SUBTOTAL				\$366,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$24,000
CONSTRUCTION SUBTOTAL				\$342,000
	California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$10,000
CONSTRUCTION SUBTOTAL				\$332,000
	California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$29,000
CONSTRUCTION SUBTOTAL				\$361,000
	Right-of-Way	\$79.00 / SF	0	\$0
	Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL				\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST				\$361,000
	Preliminary Project Development (15% of total construction cost)			\$54,000
	Design Engineering/Administration Costs (15% of total construction cost)			\$54,000
	Construction Engineering Costs/Administration (15% of total construction cost)			\$54,000
	Contingency (20% of total construction cost)			\$72,000
TOTAL PROJECT COSTS				\$595,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #13, I-405 at Irvine Center Dr (SB off ramp)
Mitigation: + Add 2nd auxiliary lane from I-405 to the off ramp

Date: 8/9/2012
Originally Estimated by: RBF, PBS&J
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$424,000
2 Clear & Grub	\$12200 / AC	0.9	\$11,000
3 Earthwork	\$46.00 / CY	13,000	\$598,000
4 Remove Striping	\$13.00 / LF	2,000	\$26,000
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8 Remove Pavement	\$5.00 / SF	22,700	\$114,000
9 Remove Channel	\$55.00 / LF	415	\$23,000
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	100	\$9,000
12 Remove & Relocate Tree	\$1,300.00 / EA	4	\$5,000
13 Sawcut	\$1.25 / LF	3,300	\$4,000
14 Relocate Street Light	\$5,700.00 / EA	8	\$46,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	1	\$1,000
17 Relocate Sign (1 post)	\$500.00 / EA	8	\$4,000
18A Overhead Sign	\$240,000.00 / EA	0	\$0
18B Overhead Sign (1 post)	\$140,000.00 / EA	2	\$280,000
19 Relocate Call Box	\$2,051.00/EA	2	\$4,000
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement (10 in)	\$500.00/ CY	80	\$40,000
34 Construct AC Pavement	\$100.00/ TON	3,010	\$301,000
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$3.00 / LF	11,000	\$33,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$450.00 / CY	250	\$113,000
50 Construct Bridge Widening	\$500.00 / SF	1,600	\$800,000
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control System	\$240,000.00/ LS	1	\$240,000
54 Asphalt Concrete Base (8 in)	\$100.00/ TON	3,440	\$344,000
55 Class 2 Aggregate Base (20 in)	\$65.00/ CY	4,250	\$276,000
56 Class 2 Aggregate Base (4 in)	\$65.00/ CY	30	\$2,000
57 Cement Treated Permeable Base (4 in)	\$140.00/ CY	30	\$4,000
58 Drainage Mobilization	\$28,125.00/ LS	1	\$28,000
59 Remove Pavement Marker	\$5,000.00/ LS	1	\$5,000
60 Remove MBGR	\$20.00/ LF	100	\$2,000
61 Pavement Marker	\$20,000.00/ LS	1	\$20,000
62 Temporary Pavement Marker	\$16,000.00/ LS	1	\$16,000
63 Temporary Striping	\$20,000.00/ LS	1	\$20,000
64 Temporary K-rail	\$20,000.00/ LS	1	\$20,000
65 Temporary Crash Cushion	\$325.00/ EA	10	\$3,000
66 Remove Overhead Signs	\$6,000.00/ EA	1	\$6,000
67 Lead Investigation	\$25,000.00/ EA	1	\$25,000
68 RE Office	\$6,000.00/ MON	12	\$72,000
69 Construction Area Sign	\$50,000.00/ LS	1	\$50,000
70 Portable CMS	\$35,000.00/ LS	1	\$35,000
71 CHP/COZEOP	\$30,000.00/ LS	1	\$30,000
72 Traffic Management Plan	\$40,000.00/ LS	1	\$40,000
73 Public Awareness Campaign	\$10,000.00/ LS	1	\$10,000
74 SWPPP Plan & Implementation	\$160,000.00/ LS	1	\$159,000
CONSTRUCTION SUBTOTAL			\$4,243,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$153,000
CONSTRUCTION SUBTOTAL			\$4,396,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$338,000
CONSTRUCTION SUBTOTAL			\$4,058,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$264,000
CONSTRUCTION SUBTOTAL			\$3,794,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$110,000
CONSTRUCTION SUBTOTAL			\$3,684,000
California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$324,000
CONSTRUCTION SUBTOTAL			\$4,008,000
Right-of-Way	\$79.00 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$4,008,000
Preliminary Project Development (15% of total construction cost)			\$601,000
Design Engineering/Administration Costs (15% of total construction cost)			\$601,000
Construction Engineering Costs/Administration (15% of total construction cost)			\$601,000
Contingency (20% of total construction cost)			\$802,000
TOTAL PROJECT COSTS			\$6,613,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #14, I-405 at Jeffrey Rd (NB off ramp)

Date: 8/9/2012

Mitigation: + Add 2nd auxiliary lane from I-405 to the off ramp

Originally Estimated by: RBF

Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$378,000
2 Clear & Grub	\$12200 / AC	1.0	\$12,000
3 Earthwork	\$46.00 / CY	8,100	\$373,000
4 Remove Striping	\$13.00 / LF	6,350	\$83,000
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8 Remove Pavement	\$5.00 / SF	46,800	\$234,000
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$96.00 / LF	80	\$7,000
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	4,700	\$6,000
14 Relocate Street Light	\$5,700.00 / EA	7	\$40,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	4	\$3,000
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18A Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
18B Overhead Sign (1 post)	\$140,000.00 / EA	1	\$140,000
19 Relocate Call Box	\$2,051.00/EA	2	\$4,000
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	1	\$10,000
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement (10 in)	\$400.00 / CY	3,180	\$1,272,000
34 Construct AC Pavement	\$6.00 / SF	0	\$0
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$3.50 / LF	10,600	\$37,000
38 Construct AC Dike	\$4.00 / LF	900	\$4,000
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	300	\$37,000
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control Systems	\$200,000.00 / LS	1	\$200,000
54 Class 2 Aggregate Base (4 in)	\$75.00 / CY	1,270	\$95,000
55 Cement Treated Permeable Base (4 in)	\$120.00 / CY	1,270	\$152,000
56 Drainage Mobilization	\$11,650.00 / LS	1	\$12,000
57 Remove Pavement Marker	\$14,000.00 / LS	1	\$14,000
58 Remove MBGR	\$22.00 / LF	80	\$2,000
59 Pavement Marker	\$22,000.00 / LS	1	\$22,000
60 Temporary Pavement Marker	\$19,000.00 / LS	1	\$19,000
61 Temporary Striping	\$22,000.00 / LS	1	\$22,000
62 Temporary K-rail	\$19.00 / LF	11,000	\$209,000
63 Temporary Crash Cushion	\$325.00 / EA	10	\$3,000
64 Remove Overhead Signs	\$6,000.00 / EA	1	\$6,000
65 Lead Investigation	\$25,000.00 / LS	1	\$25,000
66 RE Office	\$6,000.00 / MON	10	\$60,000
67 Construction Area Sign	\$35,000.00 / LS	1	\$35,000
68 Portable CMS	\$35,000.00 / LS	1	\$35,000
69 CHP/COZEEP	\$30,000.00 / LS	1	\$30,000
70 Traffic Management Plan	\$40,000.00 / LS	1	\$40,000
71 Public Awareness Campaign	\$10,000.00 / LS	1	\$10,000
72 SWPPP Plan and Implementation	\$150,000.00 / LS	1	\$148,000
CONSTRUCTION SUBTOTAL			\$3,779,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$136,000
CONSTRUCTION SUBTOTAL			\$3,915,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$301,000
CONSTRUCTION SUBTOTAL			\$3,614,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$235,000
CONSTRUCTION SUBTOTAL			\$3,379,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$98,000
CONSTRUCTION SUBTOTAL			\$3,281,000
California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$289,000
CONSTRUCTION SUBTOTAL			\$3,570,000
Right-of-Way	\$79.00 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$3,570,000
Preliminary Project Development (15% of total construction cost)			\$536,000
Design Engineering/Administration Costs (15% of total construction cost)			\$536,000
Construction Engineering Costs/Administration (15% of total construction cost)			\$536,000
Contingency (20% of total construction cost)			\$714,000
TOTAL PROJECT COSTS			\$5,892,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #15, I-405 at Sand Canyon Ave (NB on ramp)

Date: 8/9/2012

Mitigation: + Convert HOV preferential lane to a 2nd metered mixed flow lane

Originally Estimated by: RBF

Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$39,000
2 Clear & Grub	\$12200 / AC	0.0	\$0
3 Earthwork	\$46.00 / CY	0	\$0
4 Remove Striping	\$13.00 / LF	950	\$12,000
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	0	\$0
14 Relocate Street Light	\$5,700.00 / EA	0	\$0
15 Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	0	\$0
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	34,200	\$14,000
37 Construct Striping & Marking	\$8.00 / LF	950	\$8,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$120,000.00/ EA	1	\$120,000
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control Systems	\$35,000.00/ LS	1	\$35,000
54 Remove Pavement Marker	\$4,500.00/ LS	1	\$5,000
55 Pavement Marker	\$4,500.00/ LS	1	\$5,000
56 Temporary Pavement Marker	\$4,000.00/ LS		\$0
57 Temporary Striping	\$4,000.00/ LS		\$0
58 Temporary K-rail	\$20.00/ LF	1,000	\$20,000
59 Temporary Crash Cushion	\$325.00/ EA	5	\$2,000
60 Lead Investigation	\$10,000.00/ EA	1	\$10,000
61 RE Office	\$6,000.00/ MON	2	\$12,000
62 Construction Area Sign	\$20,000.00/ LS	1	\$20,000
63 Portable CMS	\$20,000.00/ LS	1	\$20,000
64 CHP/COZEEP	\$20,000.00/ LS	1	\$20,000
65 Traffic Management Plan	\$25,000.00/ LS	1	\$25,000
66 Public Awareness Campaign	\$10,000.00/ LS	1	\$10,000
67 SWPPP Plan and Implementation	\$15,000.00/ LS	1	\$15,000
CONSTRUCTION SUBTOTAL			\$392,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$14,000
CONSTRUCTION SUBTOTAL			\$406,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$31,000
CONSTRUCTION SUBTOTAL			\$375,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$24,000
CONSTRUCTION SUBTOTAL			\$351,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$10,000
CONSTRUCTION SUBTOTAL			\$341,000
California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$30,000
CONSTRUCTION SUBTOTAL			\$371,000
Right-of-Way	\$79.00 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$371,000
Preliminary Project Development (15% of total construction cost)			\$56,000
Design Engineering/Administration Costs (15% of total construction cost)			\$56,000
Construction Engineering Costs/Administration (15% of total construction cost)			\$56,000
Contingency (20% of total construction cost)			\$74,000
TOTAL PROJECT COSTS			\$613,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #16. I-405 at Sand Canyon Ave (SB off ramp)
Mitigation: + Add 2nd auxiliary lane from I-405 to the off ramp

Date: 8/9/2012
Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$347,000
2 Clear & Grub	\$12200 / AC	1.2	\$15,000
3 Earthwork	\$46.00 / CY	4,900	\$225,000
4 Remove Striping	\$13.00 / LF	5,600	\$73,000
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8 Remove Pavement	\$5.00 / SF	49,500	\$248,000
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	165	\$14,000
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	5,000	\$6,000
14 Relocate Street Light	\$5,700.00 / EA	7	\$40,000
15 Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	5	\$4,000
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18A Overhead Sign (2 posts)	\$240,000.00 / EA	0	\$0
18B Overhead Sign (1 post)	\$140,000.00 / EA	1	\$140,000
19 Relocate Call Box	\$2,051.00/EA	2	\$4,000
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	1	\$10,000
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00/ EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$400.00/ CY	3,160	\$1,264,000
34 Construct AC Pavement	\$6.00 / SF	0	\$0
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	0	\$0
37 Construct Striping & Marking	\$3.50 / LF	9,350	\$33,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00 / LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control Systems	\$170,000.00/ LS	1	\$170,000
54 Class 2 Aggregate Base (4 in)	\$75.00/ CY	1,265	\$95,000
55 Cement Treated Permeable Base (4 in)	\$120.00/ CY	1,265	\$152,000
56 Drainage Mobilization	\$2,500.00/ LS	1	\$3,000
57 Remove Pavement Marker	\$12,000.00/ LS	1	\$12,000
58 Remove MBGR	\$20.00/ LF	165	\$3,000
59 Pavement Marker	\$20,000.00/ LS	1	\$20,000
60 Temporary Pavement Marker	\$16,000.00/ LS	1	\$16,000
61 Temporary Striping	\$20,000.00/ LS	1	\$20,000
62 Temporary K-rail	\$19.00/ LF	10,000	\$190,000
63 Temporary Crash Cushion	\$325.00/ EA	10	\$3,000
64 Lead Investigation	\$25,000.00/ LS	1	\$25,000
65 RE Office	\$6,000.00/ MON	10	\$60,000
66 Construction Area Sign	\$35,000.00/ LS	1	\$35,000
67 Portable CMS	\$30,000.00/ LS	1	\$30,000
68 CHP/COZEPP	\$30,000.00/ LS	1	\$30,000
69 Traffic Management Plan	\$35,000.00/ LS	1	\$35,000
70 Public Awareness Campaign	\$10,000.00/ LS	1	\$10,000
71 SWPPP Plan and Implementation	\$120,000.00/ LS	1	\$135,000
CONSTRUCTION SUBTOTAL			\$3,467,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$125,000
CONSTRUCTION SUBTOTAL			\$3,592,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$277,000
CONSTRUCTION SUBTOTAL			\$3,315,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$215,000
CONSTRUCTION SUBTOTAL			\$3,100,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$90,000
CONSTRUCTION SUBTOTAL			\$3,010,000
California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$265,000
CONSTRUCTION SUBTOTAL			\$3,275,000
Right-of-Way	\$79.00 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$3,275,000
Preliminary Project Development (15% of total construction cost)			\$491,000
Design Engineering/Administration Costs (15% of total construction cost)			\$491,000
Construction Engineering Costs/Administration (15% of total construction cost)			\$491,000
Contingency (20% of total construction cost)			\$655,000
TOTAL PROJECT COSTS			\$5,403,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #17, SR-133 at Barranca Pkwy (SB on ramp)

Date: 8/9/2012

Mitigation: + Convert HOV preferential lane to a 2nd metered mixed flow lane

Originally Estimated by: RBF

Revised by: HA

DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1 Mobilization	10.00% (\$2,000 Min)	1	\$23,000
2 Clear & Grub	\$12200 / AC	0.0	\$0
3 Earthwork	\$46.00 / CY	0	\$0
4 Remove Striping	\$13.00 / LF	900	\$12,000
5 Remove Curb & Gutter	\$36.00 / LF	0	\$0
6 Remove Median Curb	\$37.00 / LF	0	\$0
7 Remove PCC Sidewalk	\$5.00/ SF	0	\$0
8 Remove Pavement	\$5.00 / SF	0	\$0
9 Remove Channel	\$19.00 / LF	0	\$0
10 Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11 Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12 Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13 Sawcut	\$1.25 / LF	0	\$0
14 Relocate Street Light	\$5,700.00 / EA	0	\$0
15 Relocate Traffic Signal System	\$225,000.00 / EA	0	\$0
16 Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17 Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18 Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19 Relocate Call Box	\$2,051.00/EA	0	\$0
20 Relocate Power Pole	\$25,000 / EA	0	\$0
21 Relocate Catch Basin	\$9,760.00 / EA	0	\$0
22 Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23 Relocate Bus Bench	\$1,458.00 / EA	0	\$0
24 Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25 Relocate Utility Boxes	\$895.00 / EA	0	\$0
26 Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27 Relocate Utility Vault	\$10,000 / EA	0	\$0
28 Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29 Adjust Water Meter	\$610.00 / EA	0	\$0
30 Adjust Water Valve	\$610.00 / EA	0	\$0
31 Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32 Modify Driveway	\$6,100.00 / LS	0	\$0
33 Construct PCC Pavement	\$7.50 / SF	0	\$0
34 Construct AC Pavement	\$6.00 / SF	0	\$0
35 Construct AC Overlay	\$2.50 / SF	0	\$0
36 Construct Slurry Seal	\$0.4 / SF	32,400	\$13,000
37 Construct Striping & Marking	\$8.00/ LF	900	\$7,000
38 Construct AC Dike	\$4.00 / LF	0	\$0
39 Construct Curb & Gutter	\$19.00 / LF	0	\$0
40 Construct Concrete Barrier	\$295.00 / LF	0	\$0
41 Construct Median Curb	\$31.00 / LF	0	\$0
42 Construct Median Concrete	\$7.9 / SF	0	\$0
43 Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44 Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45 Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46 Construct Retaining Wall	\$114 / SF	0	\$0
47 Construct Storm Drain Main	\$122.00 / LF	0	\$0
48 Construct RCB	\$549.00 / CY	0	\$0
49 Construct Concrete V-Ditch	\$19.00/ LF	0	\$0
50 Construct Bridge Widening	\$500.00 / SF	0	\$0
51 Install Ramp Metering System	\$80,000.00 / EA	0	\$0
52 Apply ATMS	\$113,165.00 / LS	0	\$0
53 Traffic Control Systems	\$25,000.00/ LS	1	\$25,000
54 Remove Pavement Marker	\$4,000.00/ LS	1	\$4,000
55 Temporary Striping	\$5,000.00/ LS	1	\$5,000
56 Temporary Pavement Marker	\$50,000.00/ LS	1	\$50,000
57 Temporary K-rail	\$20.00/ LF	900	\$18,000
58 Temporary Crash Cushion	\$325.00/ EA	5	\$2,000
59 RE Office	\$6,000.00/ MON	1	\$6,000
60 Construction Area Sign	\$4,000.00/ LS	1	\$4,000
61 Portable CMS	\$25,000.00/ LS	1	\$25,000
62 CHP/COZEEP	\$5,000.00/ LS	1	\$5,000
63 Traffic Management Plan	\$10,000.00/ LS	1	\$10,000
64 Public Awareness Campaign	\$10,000.00/ LS	1	\$10,000
65 SWPPP Plan and Implementation	\$15,000.00/ LS	1	\$15,000
CONSTRUCTION SUBTOTAL			\$234,000
California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$8,000
CONSTRUCTION SUBTOTAL			\$242,000
California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$19,000
CONSTRUCTION SUBTOTAL			\$223,000
California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$14,000
CONSTRUCTION SUBTOTAL			\$209,000
California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$6,000
CONSTRUCTION SUBTOTAL			\$203,000
California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$18,000
CONSTRUCTION SUBTOTAL			\$221,000
Right-of-Way	\$79.00 / SF	0	\$0
Right-of-Way Management	5%		\$0
RIGHT-OF-WAY SUBTOTAL			\$0
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$221,000
Preliminary Project Development (15% of total construction cost)			\$33,000
Design Engineering/Administration Costs (15% of total construction cost)			\$33,000
Construction Engineering Costs/Administration (15% of total construction cost)			\$33,000
Contingency (20% of total construction cost)			\$44,000
TOTAL PROJECT COSTS			\$364,000

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
2012 COST ESTIMATES**

Location: #19. SR-133/Trabuco Road Interchange
Mitigation: + Construct Interchange

Date: 12/12/2012
Originally Estimated by: RBF
Revised by: HA

DESCRIPTION OF WORK	COST
Roadway Items	\$36,046,842
Structure Items	\$14,764,308
Utilities	\$351,663
Subtotal Construction ¹	\$51,162,813
CCI 2010 --> 2010*	\$47,837,230
CCI 2010* --> 2011	\$46,449,950
CCI 2011 --> 2012	\$50,537,546
Right of Way (2012 Value) ²	\$41,740,404
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST	\$92,277,950
Project Development (PSR,PR,ED) 2%	\$834,808
Design Engineering 10% (Roadway, Structures and Utilities)	\$5,053,755
Construction Engineering/Administration 15% (Roadway, Structures and Utilities)	\$7,580,632
PROJECT COSTS (interchange)	\$105,747,145
PROJECT COSTS (PARTIAL - based on actual cost)³	\$413,218
TOTAL PROJECT COSTS	\$106,160,363

1 - Subtotal of Construction costs decreased by 7.7% from 2009.

2 - See Appendix C-5

3 - No change to actual cost.

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
FINAL COST ESTIMATE (BASED ON ACTUAL COSTS)**

LOCATION: #19, SR-133/TRABUCO RD INTERCHANGE
MITIGATION: SR-133 SB RAMP

DATE: 6/19/07
ESTIMATED BY: MN, STANTEC

Sukut Item No.	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL
1	MOBILIZATION (2% OF CONST. COST)	1	LS	\$6,287.32	\$6,287.32
2	PAYMENT & PERFORMANCE BONDS (1.5% OF CONST. COST)	1	LS	\$4,715.49	\$4,715.49
3a	DEVELOP CONSTRUCTION WATER (PRO-RATED 6% OF TRABUCO, PA 9A CONTRACT)	1	LS	\$20,250.00	\$20,250.00
5a	CONSTRUCT TRAFFIC CONTROL (PRO-RATED 25% OF TRABUCO, PA 9A CONTRACT)	1	LS	\$20,085.41	\$20,085.41
6	SITE CLEARING AND GRUBBING (PRO-RATED 10% OF CONST. COST)	1	LS	\$8,000.00	\$8,000.00
11	UNCLASSIFIED EXCAVATION	17,600	CY	\$4.50	\$79,200.00
13	UNSUITABLE MATERIAL EXCAVATION AND RECOMPACTION	8,900	CY	\$2.05	\$18,245.00
14	PARKWAY AND SLOPE FINISH (+/-0.2FT)	32,600	SF	\$0.05	\$1,630.00
15 to 17	STORM WATER POLLUTION PREVENTION PLAN (PRO-RATED 18% OF CONST. COST)	1	LS	\$8,103.78	\$8,103.78
18	CONSTRUCT .75' AC OVER .73' AB	39,120	SF	\$2.75	\$107,580.00
19	PREPARE STREET SUBGRADE	39,120	SF	\$0.20	\$7,824.00
21	CONSTRUCT CURB & GUTTER	832	LF	\$7.00	\$5,824.00
23	CONSTRUCT CONCRETE SIDEWALK	275	SF	\$2.00	\$550.00
29	CONSTRUCT 14' LOCAL DEPRESSIONS	1	EA	\$1,500.00	\$1,500.00
30	CONSTRUCT 21' LOCAL DEPRESSIONS	1	EA	\$2,200.00	\$2,200.00
34	SAWCUT & REMOVE EXISTING PAVEMENT & BASE	22,162	SF	\$0.27	\$5,983.74
55	SIGNING & STRIPING (PRO-RATED 16% OF CONST. COST)	1	LS	\$4,000.00	\$4,000.00
63	CONSTRUCT 18" RCP 2000D	124	LF	\$70.00	\$8,680.00
66	CONSTRUCT 24" RCP 2000D	90	LF	\$54.00	\$4,860.00
87	CONSTRUCT 14' CATCH BASIN	1	EA	\$2,800.00	\$2,800.00
88	CONSTRUCT 21' CATCH BASIN	1	EA	\$4,600.00	\$4,600.00
89	CONSTRUCT JUNCTION STRUCTURE TYPE 1	1	EA	\$2,450.00	\$2,450.00
	TOTAL CONSTRUCTION TOTAL				\$325,368.74
	Project Development (2% of Total Const. Cost)				\$6,507.37
	Design Engineering (10% of Total Const. Cost)				\$32,636.87
	Construction Engineering Costs/Administration (15% of Total Const. Cost)				\$48,805.31
	TOTAL PROJECT COSTS				\$413,218.30

Location No. 19 - SR133 / Trabuco Road Interchange

The basis of project limit and cost items are based on preliminary cost estimate and design prepared by RBF Consulting. Portion of the Trabuco Road improvements (west of the SR133) are constructed as part of the AD # 03-19 (CIP # 313140) offsite infrastructure work by Sukut Construction (CONTRACT NO. 1036600).

- 1) Approximately 416 linear foot (street station 168+29 to station 172+45) of Trabuco Road improvements, west of SR133 bridge are within the NITM fee credit limits.
- 2) Construction items, quantities, and unit prices are based on actual costs from Sukut Construction contract (Contract No.1036600). Pro-rated items are items that are lump sum items in the contract, for this NITM fee credit estimate purposes, the items are pro-rated based on % of construction cost.
- 3) Project Development, Design Engineering and Construction Engineering / Administration Costs are based on same % used on the preliminary cost estimate by RBF Consulting.

Source: Cost Estimates from COI - this improvement has been constructed by The Irvine Company
V:\11990-NITM\Part-I Analysis\CostEstimates\CostEstimatesFromCity\SR-133 at Trabuco - Partial.pdf

**NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM
PRELIMINARY 2012 COST ESTIMATES**

Location: #20. SR-241 at Jeffrey Rd

Date: 8/9/2012

Mitigation: + Construct Interchange (Haul Rd Interchange-Diamond concept)

Originally Estimated by: RBF

Revised by: HA

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)	1	\$1,269,000
2	Clear & Grub	\$12200 / AC	1.4	\$17,000
3	Earthwork	\$46.00 / CY	0	\$0
4	Remove Striping	\$13.00 / LF	0	\$0
5	Remove Curb & Gutter	\$36.00 / LF	0	\$0
6	Remove Median Curb	\$37.00 / LF	0	\$0
7	Remove PCC Sidewalk	\$5.00 / SF	0	\$0
8	Remove Pavement (2 ft thick)	\$40.00 / SF	2,393	\$96,000
9	Remove Channel	\$19.00 / LF	0	\$0
10	Remove/Replace Chain Link Fence	\$31.00 / LF	0	\$0
11	Reconstruct Metal Beam Guard Rail	\$86.00 / LF	0	\$0
12	Remove & Relocate Tree	\$1,300.00 / EA	0	\$0
13	Sawcut	\$1.25 / LF	3,230	\$4,000
14	Relocate Street Light	\$5,700.00 / EA	12	\$68,000
15	Relocate Traffic Signal System	\$225,000.00 / EA	2	\$450,000
16	Relocate Freeway Sign (2 post)	\$700.00 / EA	0	\$0
17	Relocate Sign (1 post)	\$220.00 / EA	0	\$0
18	Reconstruct Overhead Sign	\$240,000.00 / EA	0	\$0
19	Relocate Call Box	\$4,000.00 / EA	1	\$4,000
20	Relocate Power Pole	\$25,000 / EA	0	\$0
21	Relocate Catch Basin	\$9,760.00 / EA	2	\$20,000
22	Relocate Fire Hydrant	\$5,000.00 / EA	0	\$0
23	Relocate Bus Bench	\$1,458.00 / EA	0	\$0
24	Relocate Monument Wall	\$6,100.00 / EA	0	\$0
25	Relocate Utility Boxes	\$895.00 / EA	0	\$0
26	Relocate Main Water Valve	\$12,200.00 / EA	0	\$0
27	Relocate Utility Vault	\$10,000 / EA	0	\$0
28	Adjust Manhole to Grade	\$1,500.00 / EA	0	\$0
29	Adjust Water Meter	\$610.00 / EA	0	\$0
30	Adjust Water Valve	\$610.00 / EA	0	\$0
31	Adjust Minor Above Ground Utilities	\$610.00 / EA	0	\$0
32	Modify Driveway	\$6,100.00 / LS	0	\$0
33	Construct PCC Pavement	\$7.50 / SF	0	\$0
34	Construct AC Pavement (7 in)	\$90.00 / TON	11,088	\$998,000
35	Construct AC Overlay	\$2.50 / SF	0	\$0
36	Construct Slurry Seal	\$0.4 / SF	0	\$0
37	Construct Striping & Marking	\$2.00 / LF	26,400	\$53,000
38	Construct AC Dike	\$4.00 / LF	8,800	\$35,000
39	Construct Curb & Gutter	\$19.00 / LF	0	\$0
40	Construct Concrete Barrier	\$295.00 / LF	0	\$0
41	Construct Median Curb	\$31.00 / LF	0	\$0
42	Construct Median Concrete	\$7.9 / SF	0	\$0
43	Construct Median/Parkway Landscaping	\$13.00 / SF	0	\$0
44	Construct PCC Sidewalk	\$9.05 / SF	0	\$0
45	Construct Wheelchair Ramp	\$5,200.00 / EA	0	\$0
46	Construct Retaining Wall	\$114 / SF	12,000	\$1,368,000
47	Construct Storm Drain Main	\$122.00 / LF	600	\$73,000
48	Construct RCB	\$549.00 / CY	0	\$0
49	Construct Toll Plaza Facility	\$2,000,000.00 / EA	2	\$4,000,000
50	Construct Bridge Widening	\$500.00 / SF	0	\$0
51	Install Ramp Metering System	\$120,000.00 / EA	1	\$120,000
52	Apply ATMS	\$113,165.00 / LS	0	\$0
53	Traffic Control	\$900,000.00 / LS	1	\$900,000
54	Remove Pavement Marker	\$20,000.00 / LS	1	\$20,000
55	Asphalt Concrete Base (8 in)	\$90.00 / TON	12,672	\$1,140,000
56	Class 2 Aggregate Base (20 in)	\$45.00 / CY	19,555	\$880,000
57	Drainage Mobilization	\$18,300.00 / LS	1	\$18,000
58	Temporary K-rail	\$17.00 / LF	12,000	\$204,000
59	Temporary Crash Cushion	\$325.00 / EA	20	\$7,000
60	Temporary Striping	\$40,000.00 / LS	1	\$40,000
61	Temporary Pavement Marker	\$35,000.00 / LS	1	\$35,000
62	Lead Investigation	\$40,000.00 / LS	1	\$40,000
63	Construction Area Sign	\$70,000.00 / LS	1	\$70,000
64	Portable CMS	\$50,000.00 / LS	2	\$100,000
65	CHP/COZEEP	\$70,000.00 / LS	1	\$70,000
66	Traffic Management Plan	\$100,000.00 / LS	1	\$100,000
67	Public Awareness Campaign	\$25,000.00 / LS	0	\$0
68	RE Office	\$6,000.00 / MON	18	\$108,000
69	SWPPP Plan and Implementation	\$700,000.00 / LS	1	\$700,000
	CONSTRUCTION SUBTOTAL			\$12,691,000
	California Highway Price Index	+3.6%	CCI 2008 --> 2009	\$457,000
	CONSTRUCTION SUBTOTAL			\$13,148,000
	California Highway Price Index	(7.7%)	CCI 2009 --> 2010	-\$1,012,000
	CONSTRUCTION SUBTOTAL			\$12,136,000
	California Highway Price Index	(6.5%)	CCI 2010 --> 2010*	-\$789,000
	CONSTRUCTION SUBTOTAL			\$11,347,000
	California Highway Price Index	(2.9%)	CCI 2010* --> 2011	-\$329,000
	CONSTRUCTION SUBTOTAL			\$11,018,000
	California Highway Price Index	+8.8%	CCI 2011 --> 2012	\$970,000
	CONSTRUCTION SUBTOTAL			\$11,988,000
	Right-of-Way	\$79.00 / SF	0	\$0
	Right-of-Way Management	5%		\$0
	RIGHT-OF-WAY SUBTOTAL			\$0
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$11,988,000
	Preliminary Project Development (15% of total construction cost)			\$1,798,000
	Design Engineering/Administration Costs (15% of total construction cost)			\$1,798,000
	Construction Engineering Costs/Administration (15% of total construction cost)			\$1,798,000
	Contingency (20% of total construction cost)			\$2,398,000
	TOTAL PROJECT COSTS			\$19,780,000

C-5:

Trabuco / ETC Right-of-Way Costs

Trabuco / ETC Right of Way Costs

<u>Segment</u>	<u>2010 Area</u>	<u>2010 Value (2)</u>	<u>2011 Value (3)</u>	<u>2012 Value (4)</u>
PA 40 W(actual)	448,755.12	\$15,939,781.86	\$15,939,781.86	\$15,939,781.86
PA 40 E (estimate)	536,624.00	\$19,060,885.00	\$20,016,075.20	\$21,014,195.84
PA 9(actual)	122,360.04	\$4,346,228.62	\$4,346,228.62	\$4,346,228.62
Caltrans Parcel (1) (estimate)	11,241.00	\$399,280.32	\$419,289.30	\$440,197.56
Total	1,118,980.16	\$39,746,175.80	\$40,721,374.98	\$41,740,403.88

(1) Right of way reserved in land sale

(2) \$35.52/s.f.

(3) \$37.30/s.f. for PA 40E/Caltrans

(4) \$39.16/s.f. for PA 40E/Caltrans

APPENDIX D

NITM Program Cost Allocation Summary Tables

Allocation of Costs For The List of NITM Improvements 5-Year Allocation (Except for PA40 Fair-Share) - 2010 Correction

Location	PA40	Irvine Northern Sphere Future Development Areas							Orange County Great Park Future Development Areas					PA1	Remainder (a)	Total
		PA5B	PA6	PA8A	PA9A	PA9B	Sub-Total	GP I	GP II	GP III	GP IV	Sub-Total				
FULLY FUNDED IMPROVEMENTS IN THE NITM PROGRAM																
Intersections																
34. Red Hill Ave & Irvine Blvd (d)	Share	7.28%	18.87%	13.58%	0.69%	10.42%	19.87%	63.42%	15.56%	12.36%	0.95%	0.41%	29.29%	0.00%	0.00%	100%
	Cost	\$11,732	\$30,412	\$21,886	\$1,112	\$16,794	\$32,024	\$102,211	\$25,077	\$19,920	\$1,531	\$661	\$47,205	\$0	\$0	\$161,165
91. Tustin Ranch Rd & Irvine Blvd (d)	Share	6.35%	17.90%	17.36%	0.66%	9.84%	21.33%	67.10%	14.24%	11.41%	0.61%	0.28%	26.54%	0.00%	0.00%	100%
	Cost	\$10,234	\$28,849	\$27,978	\$1,064	\$15,858	\$34,376	\$108,142	\$22,950	\$18,389	\$983	\$451	\$42,773	\$0	\$0	\$161,165
125. Jamboree Rd & Irvine Blvd	Share	6.74%	21.39%	11.84%	0.67%	10.39%	21.21%	65.51%	14.05%	11.48%	1.46%	0.77%	27.75%	0.00%	0.00%	100%
	Cost	\$68,074	\$216,039	\$119,584	\$6,767	\$104,939	\$214,221	\$661,651	\$141,905	\$115,948	\$14,746	\$7,777	\$280,275	\$0	\$0	\$1,010,000
222. Culver Dr & Trabuco Rd	Share	32.20%	11.67%	4.95%	0.67%	28.68%	10.12%	56.10%	5.89%	2.69%	1.83%	1.30%	11.70%	0.00%	0.00%	100%
	Cost	\$1,027,684	\$372,456	\$157,982	\$21,383	\$915,341	\$322,986	\$1,790,468	\$187,983	\$85,853	\$58,406	\$41,490	\$373,413	\$0	\$0	\$3,191,565
223. Culver Dr & I-5 southbound ramps	Share	23.00%	15.30%	6.77%	0.78%	28.93%	12.87%	64.65%	5.61%	3.86%	1.43%	1.43%	12.34%	0.00%	0.00%	100%
	Cost	\$86,570	\$57,589	\$25,482	\$2,936	\$108,891	\$48,442	\$243,339	\$21,116	\$14,528	\$5,383	\$5,383	\$46,447	\$0	\$0	\$376,395
224. Culver Dr & Walnut Ave (d)	Share	22.53%	15.92%	5.97%	0.87%	28.10%	12.67%	63.53%	7.71%	3.68%	1.57%	0.99%	13.95%	0.00%	0.00%	100%
	Cost	\$36,310	\$25,658	\$9,622	\$1,403	\$45,287	\$20,420	\$102,388	\$12,426	\$5,930	\$2,531	\$1,595	\$22,483	\$0	\$0	\$161,165
235. Culver Dr & University Dr	Share	23.77%	5.49%	11.01%	1.10%	16.61%	11.26%	45.47%	11.26%	6.24%	8.87%	4.38%	30.76%	0.00%	0.00%	100%
	Cost	\$977,185	\$225,694	\$452,621	\$45,221	\$682,837	\$462,899	\$1,869,272	\$462,899	\$256,526	\$364,646	\$180,061	\$1,264,544	\$0	\$0	\$4,111,000
249. Yale Ave & Irvine Blvd	Share	6.06%	27.03%	11.87%	0.23%	7.95%	23.75%	70.83%	11.67%	10.79%	0.47%	0.18%	23.11%	0.00%	0.00%	100%
	Cost	\$267,488	\$1,193,104	\$523,942	\$10,152	\$350,913	\$1,048,325	\$3,126,436	\$515,114	\$476,271	\$20,746	\$7,945	\$1,020,075	\$0	\$0	\$4,414,000
288. Jeffrey Rd & Walnut Ave/ I-5 southbound ramps	Share	37.32%	9.52%	6.57%	3.38%	21.22%	12.76%	53.45%	4.35%	3.19%	0.85%	0.83%	9.23%	0.00%	0.00%	100%
	Cost	\$422,231	\$107,707	\$74,332	\$38,241	\$240,079	\$144,364	\$604,722	\$49,215	\$36,091	\$9,617	\$9,390	\$104,426	\$0	\$0	\$1,131,379
289. Jeffrey Rd & Irvine Center Dr	Share	32.87%	8.89%	7.29%	2.89%	22.44%	13.55%	55.05%	5.33%	3.71%	2.21%	0.83%	12.08%	0.00%	0.00%	100%
	Cost	\$3,546,016	\$959,053	\$786,445	\$311,773	\$2,420,827	\$1,461,774	\$5,938,794	\$575,000	\$400,235	\$238,415	\$89,540	\$1,303,190	\$0	\$0	\$10,788,000
291. Jeffrey Rd & Alton Pkwy	Share	29.41%	7.35%	7.68%	2.21%	22.87%	14.02%	54.13%	6.12%	4.20%	4.24%	1.89%	16.46%	0.00%	0.00%	100%
	Cost	\$354,391	\$88,568	\$92,544	\$26,631	\$275,584	\$168,941	\$652,266	\$73,746	\$50,610	\$51,092	\$22,774	\$198,343	\$0	\$0	\$1,205,000
302. Sand Canyon Ave & Trabuco Rd	Share	30.08%	1.19%	9.71%	0.25%	25.67%	14.65%	51.48%	11.25%	2.91%	3.62%	0.64%	18.43%	0.00%	0.00%	100%
	Cost	\$125,385	\$4,960	\$40,475	\$1,042	\$107,003	\$61,067	\$214,589	\$46,894	\$12,130	\$15,090	\$2,668	\$76,823	\$0	\$0	\$416,839
303. Sand Canyon Ave & I-5 northbound ramps/Marine Wy	Share	40.61%	1.04%	6.54%	0.20%	15.63%	8.99%	32.40%	9.51%	2.14%	14.28%	1.07%	27.00%	0.00%	0.00%	100%
	Cost	\$1,243,884	\$31,855	\$200,320	\$6,126	\$478,747	\$275,364	\$992,412	\$291,291	\$65,548	\$437,396	\$32,774	\$827,010	\$0	\$0	\$3,063,000
305. Sand Canyon Ave & I-5 southbound ramps	Share	39.58%	1.18%	8.03%	0.23%	17.36%	10.41%	37.22%	10.41%	2.94%	9.31%	0.54%	23.20%	0.00%	0.00%	100%
	Cost	\$716,398	\$21,358	\$145,343	\$4,163	\$314,216	\$188,421	\$673,682	\$188,421	\$53,214	\$168,511	\$9,774	\$419,920	\$0	\$0	\$1,810,000
306. Sand Canyon Ave & Oak Canyon/Laguna Canyon Rd	Share	32.77%	1.40%	10.00%	0.28%	19.12%	12.72%	43.52%	11.92%	3.80%	7.66%	0.32%	23.70%	0.00%	0.00%	100%
	Cost	\$300,501	\$12,838	\$91,700	\$2,567	\$175,331	\$116,643	\$399,079	\$109,307	\$34,846	\$70,242	\$2,935	\$217,329	\$0	\$0	\$917,000
310. Sand Canyon Ave & Alton Pkwy	Share	28.19%	1.31%	8.94%	0.26%	15.07%	9.17%	34.75%	11.28%	2.73%	17.46%	5.58%	37.06%	0.00%	0.00%	100%
	Cost	\$92,745	\$4,310	\$29,412	\$856	\$49,581	\$30,170	\$114,328	\$37,111	\$8,981	\$57,444	\$18,358	\$121,928	\$0	\$0	\$329,000
311. Sand Canyon Ave & I-405 northbound ramps	Share	32.29%	0.72%	10.55%	0.15%	15.73%	9.92%	37.06%	12.19%	2.04%	13.30%	3.12%	30.65%	0.00%	0.00%	100%
	Cost	\$371,013	\$8,273	\$121,220	\$1,724	\$180,738	\$113,981	\$425,819	\$140,064	\$23,440	\$152,817	\$35,849	\$352,169	\$0	\$0	\$1,149,000
321. Laguna Canyon Rd & Old Laguna Canyon Rd	Share	25.42%	3.56%	10.67%	0.62%	11.26%	7.90%	34.01%	33.39%	5.20%	0.24%	1.74%	40.57%	0.00%	0.00%	100%
	Cost	\$509,671	\$71,378	\$213,934	\$12,431	\$225,763	\$158,395	\$681,901	\$669,470	\$104,260	\$4,812	\$34,887	\$813,429	\$0	\$0	\$2,005,000
338. Alton Pkwy & Irvine Blvd (e)	Share	4.85%	1.10%	22.68%	0.17%	4.22%	2.92%	31.10%	24.22%	30.34%	7.08%	2.41%	64.05%	0.00%	0.00%	100%
	Cost	\$135,771	\$30,793	\$634,903	\$4,759	\$118,134	\$81,742	\$870,612	\$678,013	\$849,337	\$198,198	\$67,466	\$1,793,013	\$0	\$0	\$2,799,396
345. Alton Pkwy & I-5 northbound ramps	Share	8.10%	1.62%	5.33%	0.36%	4.85%	2.83%	14.98%	9.07%	6.70%	39.17%	21.98%	76.92%	0.00%	0.00%	100%
	Cost	\$2,268	\$454	\$1,493	\$100	\$1,358	\$793	\$4,194	\$2,539	\$1,876	\$10,967	\$6,154	\$21,538	\$0	\$0	\$28,000
362. Bake Pkwy & Irvine Blvd (e)	Share	3.91%	0.85%	25.65%	0.10%	2.57%	2.04%	31.20%	24.44%	29.22%	5.34%	5.90%	64.90%	0.00%	0.00%	100%
	Cost	\$249,340	\$54,205	\$1,635,701	\$6,377	\$163,889	\$130,091	\$1,989,624	\$1,558,539	\$1,863,360	\$340,532	\$376,243	\$4,138,673	\$0	\$0	\$6,377,000

Allocation of Costs For The List of NITM Improvements 5-Year Allocation (Except for PA40 Fair-Share) - 2010 Correction

Location		Irvine Northern Sphere Future Development Areas							Orange County Great Park Future Development Areas					PA1	Remainder (a)	Total
		PA40	PA5B	PA6	PA8A	PA9A	PA9B	Sub-Total	GP I	GP II	GP III	GP IV	Sub-Total			
364. Bake Pkwy & Jeronimo Rd	Share	0.99%	0.31%	21.51%	0.01%	0.54%	1.12%	23.50%	12.04%	22.28%	23.41%	17.78%	75.51%	0.00%	0.00%	100%
	Cost	\$45,728	\$14,319	\$993,547	\$462	\$24,943	\$51,732	\$1,085,465	\$556,128	\$1,029,114	\$1,081,308	\$821,259	\$3,487,807	\$0	\$0	\$4,619,000
368. Bake Pkwy & I-5 southbound ramps	Share	6.59%	1.01%	7.07%	0.26%	4.42%	2.38%	15.14%	9.10%	7.16%	25.40%	36.62%	78.28%	0.00%	0.00%	100%
	Cost	\$181,555	\$27,826	\$194,779	\$7,163	\$121,771	\$65,569	\$417,107	\$250,705	\$197,258	\$699,770	\$1,008,881	\$2,156,614	\$0	\$0	\$2,755,000
379. Lake Forest Dr & Muirlands Blvd	Share	6.21%	0.18%	2.53%	0.09%	1.01%	0.23%	4.05%	15.13%	4.28%	48.32%	22.02%	89.75%	0.00%	0.00%	100%
	Cost	\$890	\$26	\$363	\$13	\$145	\$33	\$580	\$2,168	\$613	\$6,922	\$3,154	\$12,856	\$0	\$0	\$14,324
383. Lake Forest Dr & Av Carlota/ I-5 southbound ramps (d) (e)	Share	8.24%	1.28%	20.37%	0.27%	5.69%	3.46%	31.06%	16.91%	21.70%	14.36%	7.71%	60.69%	0.00%	0.00%	100%
	Cost	\$93,688	\$14,554	\$231,607	\$3,070	\$64,695	\$39,341	\$353,153	\$192,267	\$246,729	\$163,274	\$87,663	\$690,045	\$0	\$0	\$1,137,000
406. Laguna Canyon Rd & Lake Forest Dr	Share	25.97%	3.60%	10.51%	0.64%	11.69%	8.12%	34.56%	33.45%	4.88%	0.11%	1.03%	39.47%	0.00%	0.00%	100%
	Cost	\$95,988	\$13,306	\$38,846	\$2,366	\$43,208	\$30,012	\$127,738	\$123,635	\$18,037	\$407	\$3,807	\$145,886	\$0	\$0	\$369,612
407. Laguna Canyon Rd & Bake Pkwy	Share	25.48%	2.99%	10.07%	0.51%	9.02%	6.21%	28.79%	26.95%	6.44%	7.59%	4.74%	45.72%	0.00%	0.00%	100%
	Cost	\$279,515	\$32,801	\$110,468	\$5,594	\$98,950	\$68,123	\$315,827	\$295,642	\$70,647	\$83,263	\$51,998	\$501,549	\$0	\$0	\$1,097,000
Interchanges																
SR-133 at Trabuco Rd	Share	28.72%	0.30%	2.95%	0.07%	7.52%	5.08%	15.92%	48.70%	4.90%	1.08%	0.67%	55.36%	0.00%	0.00%	100%
	Cost	\$28,935,645	\$302,252	\$2,972,150	\$70,525	\$7,576,465	\$5,118,144	\$16,039,536	\$49,065,666	\$4,936,792	\$1,088,110	\$675,030	\$55,775,674	\$0	\$0	\$100,750,855
Sub-Total Cost (Fully Funded)		\$40,187,902	\$3,950,633	\$9,948,676	\$596,021	\$14,922,285	\$10,488,391	\$39,905,335	\$56,295,291	\$10,996,483	\$5,347,156	\$3,605,968	\$76,255,436	\$0	\$0	\$156,347,860
FAIR SHARE FUNDED IMPROVEMENTS IN THE NITM PROGRAM																
Intersections																
123. Jamboree Rd & Tustin Ranch Rd	Share	0.51%	0.26%	0.66%	0.04%	0.54%	0.61%	2.12%	0.23%	0.10%	0.18%	0.05%	0.56%	3.60%	92.81%	100%
	Cost	\$39	\$19	\$50	\$3	\$41	\$46	\$161	\$17	\$8	\$14	\$4	\$43	\$273	\$7,031	\$7,576
228. Culver Dr & Barranca Pkwy	Share	0.45%	0.35%	0.12%	0.05%	0.53%	0.22%	1.27%	0.12%	0.06%	0.14%	0.04%	0.36%	1.91%	95.92%	100%
	Cost	\$3,333	\$2,586	\$899	\$386	\$3,898	\$1,642	\$9,409	\$917	\$413	\$1,027	\$330	\$2,687	\$14,141	\$709,839	\$740,000
290. Jeffrey Rd & Barranca Pkwy	Share	2.65%	0.96%	0.95%	0.29%	2.93%	1.77%	6.91%	0.74%	0.49%	0.28%	0.07%	1.58%	0.45%	87.19%	100%
	Cost	\$12,275	\$4,466	\$4,383	\$1,362	\$13,580	\$8,210	\$32,002	\$3,447	\$2,262	\$1,300	\$323	\$7,331	\$2,105	\$403,685	\$463,000
293. Jeffrey Rd & I-405 northbound ramps	Share	1.83%	0.74%	0.81%	0.21%	2.24%	1.49%	5.49%	0.61%	0.43%	0.36%	0.19%	1.59%	0.32%	89.83%	100%
	Cost	\$15,971	\$6,461	\$7,088	\$1,805	\$19,483	\$13,009	\$47,847	\$5,270	\$3,759	\$3,157	\$1,671	\$13,857	\$2,813	\$782,456	\$871,000
327. Barranca Pkwy & Technology Dr	Share	0.61%	0.08%	0.62%	0.02%	0.65%	0.45%	1.82%	0.73%	0.40%	1.99%	0.84%	3.95%	0.11%	93.36%	100%
	Cost	\$4,417	\$555	\$4,509	\$126	\$4,724	\$3,239	\$13,152	\$5,243	\$2,863	\$14,368	\$6,030	\$28,504	\$769	\$674,028	\$722,000
344. Alton Pkwy & Technology Dr West	Share	0.24%	0.08%	0.37%	0.02%	0.20%	0.10%	0.77%	0.65%	0.75%	3.75%	2.36%	7.51%	0.13%	91.19%	100%
	Cost	\$37	\$12	\$56	\$3	\$30	\$16	\$118	\$100	\$115	\$576	\$362	\$1,154	\$20	\$14,006	\$15,360
348. Alton Pkwy & Irvine Center Dr	Share	0.12%	0.02%	0.06%	0.00%	0.14%	0.08%	0.30%	0.13%	0.18%	1.14%	1.01%	2.46%	0.03%	97.08%	100%
	Cost	\$3,037	\$414	\$1,551	\$69	\$3,345	\$1,896	\$7,275	\$3,103	\$4,516	\$27,927	\$24,823	\$60,369	\$689	\$2,384,219	\$2,456,000
358. Irvine Center Dr & Enterprise Dr	Share	0.11%	0.02%	0.06%	0.00%	0.12%	0.07%	0.27%	0.12%	0.03%	0.05%	0.33%	0.53%	0.03%	99.05%	100%
	Cost	\$32	\$5	\$18	\$1	\$37	\$21	\$81	\$37	\$8	\$16	\$98	\$159	\$9	\$29,716	\$30,000
359. Irvine Center Dr & I-405 southbound ramps	Share	0.17%	0.03%	0.12%	0.01%	0.21%	0.14%	0.50%	0.31%	0.05%	0.02%	0.37%	0.74%	0.05%	98.52%	100%
	Cost	\$1,388	\$291	\$987	\$58	\$1,742	\$1,138	\$4,216	\$2,555	\$395	\$140	\$3,101	\$6,191	\$441	\$824,619	\$837,000
378. Lake Forest Dr & Jeronimo Rd	Share	0.08%	0.00%	0.18%	0.00%	0.01%	0.02%	0.21%	0.51%	0.31%	1.67%	0.46%	2.96%	0.01%	96.68%	100%
	Cost	\$1,954	\$105	\$4,089	\$35	\$315	\$454	\$4,997	\$11,986	\$7,164	\$38,931	\$10,834	\$68,915	\$244	\$2,252,663	\$2,330,000
380. Lake Forest Dr & Rockfield Blvd	Share	0.14%	0.02%	0.67%	0.01%	0.09%	0.05%	0.84%	0.59%	0.69%	0.68%	0.55%	2.51%	0.04%	96.40%	100%
	Cost	\$40	\$7	\$194	\$2	\$27	\$15	\$244	\$170	\$201	\$198	\$159	\$727	\$13	\$27,955	\$29,000
387. Ridge Route Dr & Rockfield Blvd	Share	0.08%	0.02%	0.48%	0.00%	0.06%	0.04%	0.60%	0.52%	0.50%	0.69%	0.53%	2.24%	0.03%	97.02%	100%
	Cost	\$132	\$27	\$830	\$7	\$111	\$73	\$1,048	\$906	\$872	\$1,204	\$918	\$3,900	\$55	\$168,821	\$174,000
390. Paseo de Valencia & Avd de la Carlota	Share	0.26%	0.06%	0.09%	0.01%	0.17%	0.12%	0.45%	0.63%	0.01%	0.40%	0.16%	1.20%	0.12%	97.77%	100%
	Cost	\$1,736	\$401	\$606	\$72	\$1,171	\$771	\$3,020	\$4,192	\$82	\$2,650	\$1,089	\$8,013	\$832	\$655,052	\$670,000
396. El Toro Rd & Avd de la Carlota	Share	0.14%	0.03%	0.29%	0.01%	0.09%	0.05%	0.47%	0.45%	0.37%	0.44%	0.23%	1.48%	0.07%	97.74%	100%
	Cost	\$16	\$3	\$33	\$1	\$10	\$6	\$53	\$50	\$42	\$49	\$25	\$167	\$7	\$11,004	\$11,259
420. El Toro Rd & Jeronimo Rd	Share	0.05%	0.01%	0.72%	0.00%	0.01%	0.01%	0.75%	0.52%	1.00%	0.93%	0.30%	2.75%	0.01%	96.41%	100%
	Cost	\$2,723	\$418	\$36,717	\$70	\$487	\$766	\$38,459	\$26,685	\$51,280	\$47,795	\$15,259	\$141,018	\$627	\$4,946,645	\$5,131,000
422. Los Alisos Blvd & Jeronimo Rd	Share	0.05%	0.01%	0.17%	0.00%	0.01%	0.01%	0.20%	0.33%	0.25%	0.77%	0.31%	1.66%	0.01%	98.08%	100%
	Cost	\$927	\$148	\$3,369	\$0	\$185	\$259	\$3,961	\$6,368	\$4,776	\$14,809	\$6,071	\$32,025	\$148	\$1,895,978	\$1,933,000
423. Muirlands Blvd & Los Alisos Blvd	Share	0.03%	0.00%	0.34%	0.00%	0.00%	0.00%	0.35%	0.23%	0.53%	0.57%	0.31%	1.63%	0.00%	97.99%	100%
	Cost	\$1,970	\$94	\$20,065	\$0	\$94	\$94	\$20,346	\$13,220	\$30,660	\$33,098	\$17,815	\$94,793	\$0	\$5,703,079	\$5,820,000

Allocation of Costs For The List of NITM Improvements 5-Year Allocation (Except for PA40 Fair-Share) - 2010 Correction

Location		PA40	Irvine Northern Sphere Future Development Areas						Orange County Great Park Future Development Areas					PA1	Remainder (a)	Total
			PA5B	PA6	PA8A	PA9A	PA9B	Sub-Total	GP I	GP II	GP III	GP IV	Sub-Total			
424. Los Alisos Blvd & Rockfield Blvd/Fordview St	Share	0.03%	0.00%	0.09%	0.00%	0.01%	0.00%	0.10%	0.08%	0.17%	0.10%	0.14%	0.49%	0.00%	99.37%	100%
	Cost	\$583	\$58	\$1,806	\$0	\$116	\$58	\$2,039	\$1,689	\$3,496	\$1,981	\$2,797	\$9,963	\$0	\$2,038,066	\$2,051,000
432. Alicia Pkwy & Muirlands Blvd	Share	0.07%	0.00%	0.20%	0.00%	0.02%	0.01%	0.23%	0.18%	0.30%	0.36%	0.21%	1.07%	0.01%	98.51%	100%
	Cost	\$4,693	\$227	\$13,553	\$151	\$1,211	\$379	\$15,521	\$12,341	\$20,367	\$24,455	\$14,385	\$71,549	\$606	\$6,605,134	\$6,705,000
557. Ridge Valley & Irvine Blvd	Share	1.89%	0.51%	9.08%	0.08%	2.13%	1.33%	13.13%	12.79%	7.58%	0.44%	0.13%	20.94%	0.41%	63.24%	100%
	Cost	\$2,981	\$804	\$14,347	\$133	\$3,367	\$2,095	\$20,747	\$20,214	\$11,973	\$690	\$204	\$33,081	\$652	\$99,926	\$158,000
Roadway Segments																
Jamboree Rd (Portola Pkwy to north Tustin city limits)	Share	0.52%	0.26%	0.67%	0.04%	0.53%	0.62%	2.12%	0.23%	0.10%	0.17%	0.05%	0.56%	3.61%	92.81%	100%
	Cost	\$18,795	\$9,449	\$24,296	\$1,530	\$19,436	\$22,496	\$77,205	\$8,548	\$3,779	\$6,299	\$1,799	\$20,426	\$131,645	\$3,385,699	\$3,648,000
Jeffrey Rd (future extension from Portola Pkwy to SR-241)	Share	2.58%	1.06%	1.32%	0.17%	2.26%	1.57%	6.37%	0.45%	0.18%	0.30%	0.03%	0.96%	2.39%	83.21%	100%
	Cost	\$600,201	\$245,525	\$306,600	\$40,310	\$524,030	\$364,012	\$1,480,476	\$103,829	\$41,531	\$70,848	\$7,329	\$223,537	\$555,790	\$19,330,480	\$23,232,000
SR-133 (I-405 to Lake Forest Dr)	Share	0.57%	0.15%	0.45%	0.03%	0.47%	0.33%	1.42%	1.40%	0.22%	0.01%	0.03%	1.65%	0.31%	95.55%	100%
	Cost	\$28,143	\$7,378	\$22,135	\$1,277	\$23,341	\$16,389	\$70,520	\$69,243	\$10,713	\$426	\$1,561	\$81,943	\$15,324	\$4,732,817	\$4,953,105
Freeway Mainline																
I-5 (Sand Canyon Ave to Jeffrey Rd) (f)	Share	0.80%	0.19%	0.05%	0.05%	0.24%	0.12%	0.64%	0.57%	0.07%	0.77%	0.42%	1.85%	0.42%	96.02%	100%
	Cost	\$85,566	\$20,369	\$4,900	\$4,935	\$25,479	\$12,390	\$68,073	\$61,318	\$7,910	\$82,493	\$45,254	\$196,973	\$44,728	\$10,244,358	\$10,669,000
I-405 (Sand Canyon Ave to Jeffrey Rd)	Share	0.35%	0.00%	0.26%	0.00%	0.17%	0.11%	0.54%	0.48%	0.18%	0.47%	0.36%	1.49%	0.00%	97.52%	100%
	Cost	\$1,707	\$0	\$1,297	\$0	\$832	\$534	\$2,662	\$2,345	\$897	\$2,327	\$1,747	\$7,316	\$0	\$478,815	\$491,000
Freeway Ramps																
I-5 at Alton Pkwy (southbound off-ramp)	Share	1.77%	0.41%	1.37%	0.08%	1.70%	1.15%	4.72%	1.98%	0.68%	1.77%	1.15%	5.59%	0.67%	86.71%	100%
	Cost	\$76,344	\$17,689	\$59,167	\$3,660	\$73,603	\$49,611	\$203,730	\$85,599	\$29,482	\$76,653	\$49,814	\$241,549	\$28,872	\$3,745,017	\$4,319,000
I-5 at Bake Pkwy (southbound off-ramp)	Share	0.89%	0.16%	0.09%	0.05%	0.81%	0.38%	1.48%	0.77%	0.00%	0.02%	4.34%	5.13%	0.34%	91.77%	100%
	Cost	\$28,161	\$5,025	\$2,777	\$1,454	\$25,652	\$12,165	\$47,073	\$24,462	\$132	\$528	\$138,046	\$163,169	\$10,710	\$2,919,189	\$3,181,000
I-5 at Culver Drive (southbound off-ramp)	Share	1.35%	0.85%	0.62%	0.05%	2.77%	0.68%	4.97%	0.38%	0.31%	0.00%	0.00%	0.68%	4.17%	86.53%	100%
	Cost	\$77,425	\$48,611	\$35,438	\$3,136	\$159,003	\$38,888	\$285,076	\$21,639	\$17,562	\$0	\$0	\$39,201	\$238,975	\$4,958,880	\$5,731,000
I-5 at El Toro Rd (northbound loop on-ramp)	Share	0.53%	0.11%	0.18%	0.02%	0.32%	0.21%	0.84%	1.76%	0.00%	2.10%	0.86%	4.72%	0.25%	93.30%	100%
	Cost	\$1,277	\$265	\$425	\$53	\$761	\$513	\$2,016	\$4,244	\$0	\$5,057	\$2,069	\$11,370	\$602	\$224,856	\$241,000
I-5 at El Toro Rd (southbound off-ramp)	Share	0.41%	0.09%	0.14%	0.02%	0.26%	0.17%	0.69%	0.94%	0.02%	0.56%	0.26%	1.79%	0.20%	96.56%	100%
	Cost	\$8,605	\$1,938	\$2,989	\$332	\$5,480	\$3,543	\$14,280	\$19,594	\$442	\$11,679	\$5,424	\$37,141	\$4,207	\$2,006,597	\$2,078,000
I-5 at Jamboree Rd (northbound off-ramp)	Share	3.09%	0.03%	0.02%	0.05%	0.61%	0.05%	0.75%	0.49%	0.02%	0.92%	0.41%	1.84%	0.05%	93.46%	100%
	Cost	\$156,321	\$1,622	\$812	\$2,434	\$30,828	\$2,434	\$38,129	\$24,744	\$812	\$46,647	\$20,687	\$92,890	\$2,434	\$4,726,411	\$5,057,000
I-5 at Jamboree Rd (southbound off-ramp)	Share	0.00%	0.01%	0.05%	0.00%	0.39%	0.04%	0.49%	0.00%	0.00%	0.00%	0.00%	0.00%	0.22%	99.31%	100%
	Cost	\$0	\$305	\$1,831	\$0	\$13,123	\$1,221	\$16,480	\$0	\$0	\$0	\$0	\$0	\$7,324	\$3,334,806	\$3,358,000
I-5 at Jeffrey Rd (southbound on-ramp)	Share	0.35%	1.47%	0.00%	0.46%	1.24%	0.41%	3.58%	0.43%	0.01%	0.58%	0.71%	1.72%	1.13%	93.26%	100%
	Cost	\$583	\$2,435	\$0	\$767	\$2,063	\$676	\$5,940	\$710	\$22	\$958	\$1,172	\$2,863	\$1,871	\$154,819	\$166,000
I-5 at Sand Canyon Ave (northbound on-ramp)	Share	9.79%	0.05%	0.14%	0.01%	0.20%	0.08%	0.48%	2.56%	0.08%	5.82%	0.00%	8.46%	0.05%	83.13%	100%
	Cost	\$55,140	\$282	\$801	\$48	\$1,131	\$424	\$2,685	\$14,414	\$424	\$32,785	\$0	\$47,623	\$282	\$468,036	\$563,000
I-405 at Irvine Center Dr (southbound off-ramp)	Share	0.40%	0.13%	0.39%	0.03%	0.58%	0.43%	1.55%	1.19%	0.15%	0.06%	0.31%	1.71%	0.17%	96.14%	100%
	Cost	\$24,973	\$8,035	\$24,105	\$1,722	\$36,159	\$26,975	\$96,997	\$74,612	\$9,183	\$4,018	\$19,514	\$107,328	\$10,905	\$6,018,370	\$6,260,000

Allocation of Costs For The List of NITM Improvements 5-Year Allocation (Except for PA40 Fair-Share) - 2010 Correction

Location	PA40	Irvine Northern Sphere Future Development Areas							Orange County Great Park Future Development Areas					PA1	Remainder (a)	Total
		PA5B	PA6	PA8A	PA9A	PA9B	Sub-Total	GP I	GP II	GP III	GP IV	Sub-Total				
I-405 at Jeffrey Rd (northbound off-ramp)	Share	0.22%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.16%	0.02%	0.46%	0.59%	1.22%	0.00%	98.76%	100%
	Cost	\$12,208	\$0	\$0	\$0	\$0	\$0	\$0	\$8,870	\$917	\$25,387	\$32,728	\$67,903	\$0	\$5,506,874	\$5,576,000
I-405 at Sand Canyon Ave (northbound direct on-ramp)	Share	3.43%	0.00%	1.11%	0.00%	1.71%	1.10%	3.92%	1.98%	0.14%	1.77%	0.00%	3.90%	0.00%	88.89%	100%
	Cost	\$19,916	\$0	\$6,463	\$0	\$9,909	\$6,367	\$22,738	\$11,489	\$814	\$10,292	\$0	\$22,595	\$0	\$515,567	\$580,000
I-405 at Sand Canyon Ave (southbound off-ramp)	Share	2.07%	0.00%	1.07%	0.00%	1.35%	0.80%	3.23%	0.49%	0.03%	1.20%	0.00%	1.72%	0.00%	92.12%	100%
	Cost	\$105,682	\$0	\$54,896	\$0	\$69,248	\$40,903	\$165,046	\$25,116	\$1,436	\$61,354	\$0	\$87,905	\$0	\$4,711,713	\$5,115,000
SR-133 at Barranca Pkwy (southbound loop on-ramp)	Share	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.09%	0.09%	0.00%	99.93%	100%
	Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$293	\$293	\$0	\$343,766	\$344,000
Interchanges																
SR-241 at Jeffrey Rd	Share	2.36%	0.94%	1.18%	0.15%	2.00%	1.39%	5.67%	0.59%	0.23%	0.33%	0.13%	1.29%	2.13%	84.59%	100%
	Cost	\$441,183	\$175,781	\$220,383	\$28,860	\$375,175	\$260,611	\$1,060,808	\$111,066	\$43,726	\$62,092	\$24,487	\$241,371	\$397,913	\$15,836,042	\$18,722,000
Sub-Total Cost (Partially Funded Improvement Locations)		\$1,800,510	\$561,810	\$884,464	\$94,799	\$1,449,226	\$894,338	\$3,884,631	\$790,353	\$315,033	\$714,228	\$458,221	\$2,277,842	\$1,476,026	\$123,877,032	\$135,438,300
NITM PROGRAM ADMINISTRATIVE COSTS AND CALTRANS CONTINGENCY FUND																
NITM Program Establishment Cost (b)		\$72,528	\$7,423	\$17,884	\$1,132	\$26,896	\$18,727	\$72,060	\$93,754	\$18,598	\$10,022	\$6,710	\$129,100	\$2,490	\$0	\$276,179
NITM Program Administration Cost (b)		\$637,621	\$65,260	\$157,225	\$9,952	\$236,451	\$164,633	\$633,512	\$824,227	\$163,499	\$88,107	\$58,989	\$1,134,974	\$21,892	\$0	\$2,428,000
Caltrans Contingency Fund (b)		\$137,821	\$15,769	\$28,981	\$2,743	\$67,059	\$29,091	\$143,643	\$56,099	\$10,362	\$53,296	\$46,861	\$166,618	\$51,917	\$0	\$500,000
Sub-Total Cost (Administrative and Caltrans Contingency Fund)		\$847,970	\$88,452	\$204,091	\$13,827	\$330,405	\$212,451	\$849,216	\$974,080	\$192,459	\$151,425	\$112,560	\$1,430,693	\$76,300	\$0	\$3,204,179
TOTAL (LIST OF NITM IMPROVEMENTS, NITM PROGRAM ADMINISTRATIVE COSTS, AND CALTRANS CONTINGENCY FUND)																
Total Cost		\$42,836,381	\$4,600,894	\$11,037,231	\$704,647	\$16,701,916	\$11,595,180	\$44,639,183	\$58,059,724	\$11,503,976	\$6,212,809	\$4,176,749	\$79,963,971	\$1,552,326	\$123,877,032	\$294,990,339
Share of Total Cost		14.52%	1.56%	3.74%	0.24%	5.66%	3.93%	15.13%	19.68%	3.90%	2.11%	1.42%	27.11%	0.53%	41.99%	100.00%

(a) Traffic share percentage and allocated cost for existing traffic and future traffic due to future development in areas other than PA40, the Irvine Northern Sphere Area, the Orange County Great Park and PA1.

(b) Allocation of Administrative Costs held as part of PA 40 GPA/ZC Re-Allocation

(e) The cost estimate at this intersection includes a contribution to the City of Irvine Traffic Management Systems Operation Study (TMSOS).

(f) The cost estimate for the I-5 mainline improvements at this location includes the cost to add a second drop lane from I-5 to the southbound off-ramp at Sand Canyon Avenue.

Table D-2 Page 1 of 4
Allocation of Costs For The List of NITM Improvements 5-Year Allocation (Except for PA40 Fair-Share) - 2011 Costs

Location	PA40	Irvine Northern Sphere Future Development Areas						Orange County Great Park Future Development Areas					PA1	Remainder (a)	Total	
		PA5B	PA6	PA8A	PA9A	PA9B	Sub-Total	GP I	GP II	GP III	GP IV	Sub-Total				
FULLY FUNDED IMPROVEMENTS IN THE NITM PROGRAM																
Intersections																
34. Red Hill Ave & Irvine Blvd (d)	Share	7.28%	18.87%	13.58%	0.69%	10.42%	19.87%	63.42%	15.56%	12.36%	0.95%	0.41%	29.29%	0.00%	0.00%	100%
	Cost	\$11,514	\$29,846	\$21,479	\$1,091	\$16,481	\$31,427	\$100,308	\$24,610	\$19,549	\$1,503	\$648	\$46,327	\$0	\$0	\$158,165
91. Tustin Ranch Rd & Irvine Blvd (d)	Share	6.35%	17.90%	17.36%	0.66%	9.84%	21.33%	67.10%	14.24%	11.41%	0.61%	0.28%	26.54%	0.00%	0.00%	100%
	Cost	\$10,043	\$28,312	\$27,457	\$1,044	\$15,563	\$33,737	\$106,129	\$22,523	\$18,047	\$965	\$443	\$41,977	\$0	\$0	\$158,165
125. Jamboree Rd & Irvine Blvd	Share	6.74%	21.39%	11.84%	0.67%	10.39%	21.21%	65.51%	14.05%	11.48%	1.46%	0.77%	27.75%	0.00%	0.00%	100%
	Cost	\$66,591	\$211,333	\$116,979	\$6,620	\$102,653	\$209,555	\$647,239	\$138,814	\$113,422	\$14,425	\$7,608	\$274,170	\$0	\$0	\$988,000
222. Culver Dr & Trabuco Rd	Share	32.20%	11.67%	4.95%	0.67%	28.68%	10.12%	56.10%	5.89%	2.69%	1.83%	1.30%	11.70%	0.00%	0.00%	100%
	Cost	\$1,027,684	\$372,456	\$157,982	\$21,383	\$915,341	\$322,986	\$1,790,468	\$187,983	\$85,853	\$58,406	\$41,490	\$373,413	\$0	\$0	\$3,191,565
223. Culver Dr & I-5 southbound ramps	Share	23.00%	15.30%	6.77%	0.78%	28.93%	12.87%	64.65%	5.61%	3.86%	1.43%	1.43%	12.34%	0.00%	0.00%	100%
	Cost	\$84,349	\$56,111	\$24,828	\$2,861	\$106,096	\$47,199	\$237,094	\$20,574	\$14,156	\$5,244	\$5,244	\$45,255	\$0	\$0	\$366,735
224. Culver Dr & Walnut Ave (d)	Share	22.53%	15.92%	5.97%	0.87%	28.10%	12.67%	63.53%	7.71%	3.68%	1.57%	0.99%	13.95%	0.00%	0.00%	100%
	Cost	\$35,635	\$25,180	\$9,442	\$1,376	\$44,444	\$20,040	\$100,482	\$12,195	\$5,820	\$2,483	\$1,566	\$22,064	\$0	\$0	\$158,165
235. Culver Dr & University Dr	Share	23.77%	5.49%	11.01%	1.10%	16.61%	11.26%	45.47%	11.26%	6.24%	8.87%	4.38%	30.76%	0.00%	0.00%	100%
	Cost	\$953,890	\$220,314	\$441,831	\$44,143	\$666,559	\$451,864	\$1,824,711	\$451,864	\$250,411	\$355,953	\$175,769	\$1,234,399	\$0	\$0	\$4,013,000
249. Yale Ave & Irvine Blvd	Share	6.06%	27.03%	11.87%	0.23%	7.95%	23.75%	70.83%	11.67%	10.79%	0.47%	0.18%	23.11%	0.00%	0.00%	100%
	Cost	\$266,276	\$1,187,698	\$521,568	\$10,106	\$349,323	\$1,043,575	\$3,112,270	\$512,780	\$474,113	\$20,652	\$7,909	\$1,015,453	\$0	\$0	\$4,394,000
288. Jeffrey Rd & Walnut Ave/ I-5 southbound ramps	Share	37.32%	9.52%	6.57%	3.38%	21.22%	12.76%	53.45%	4.35%	3.19%	0.85%	9.23%	0.00%	0.00%	100%	
	Cost	\$422,231	\$107,707	\$74,332	\$38,241	\$240,079	\$144,364	\$604,722	\$49,215	\$36,091	\$9,617	\$9,390	\$104,426	\$0	\$0	\$1,131,379
289. Jeffrey Rd & Irvine Center Dr	Share	32.87%	8.89%	7.29%	2.89%	22.44%	13.55%	55.05%	5.33%	3.71%	2.21%	0.83%	12.08%	0.00%	0.00%	100%
	Cost	\$3,596,307	\$972,655	\$797,599	\$316,195	\$2,455,160	\$1,482,506	\$6,023,021	\$583,155	\$405,911	\$241,796	\$90,810	\$1,321,672	\$0	\$0	\$10,941,000
291. Jeffrey Rd & Alton Pkwy	Share	29.41%	7.35%	7.68%	2.21%	22.87%	14.02%	54.13%	6.12%	4.20%	4.24%	1.89%	16.46%	0.00%	0.00%	100%
	Cost	\$351,450	\$87,833	\$91,776	\$26,410	\$273,297	\$167,539	\$646,853	\$73,134	\$50,190	\$50,668	\$22,585	\$196,697	\$0	\$0	\$1,195,000
302. Sand Canyon Ave & Trabuco Rd	Share	30.08%	1.19%	9.71%	0.25%	25.67%	14.65%	51.48%	11.25%	2.91%	3.62%	0.64%	18.43%	0.00%	0.00%	100%
	Cost	\$125,385	\$4,960	\$40,475	\$1,042	\$107,003	\$61,067	\$214,589	\$46,894	\$12,130	\$15,090	\$2,668	\$76,823	\$0	\$0	\$416,839
303. Sand Canyon Ave & I-5 northbound ramps/Marine Wy	Share	40.61%	1.04%	6.54%	0.20%	15.63%	8.99%	32.40%	9.51%	2.14%	14.28%	1.07%	27.00%	0.00%	0.00%	100%
	Cost	\$1,211,396	\$31,023	\$195,088	\$5,966	\$466,243	\$268,172	\$966,492	\$283,683	\$63,836	\$425,972	\$31,918	\$805,410	\$0	\$0	\$2,983,000
305. Sand Canyon Ave & I-5 southbound ramps	Share	39.58%	1.18%	8.03%	0.23%	17.36%	10.41%	37.22%	10.41%	2.94%	9.31%	0.54%	23.20%	0.00%	0.00%	100%
	Cost	\$701,753	\$20,921	\$142,372	\$4,078	\$307,793	\$184,569	\$659,911	\$184,569	\$52,126	\$165,066	\$9,574	\$411,336	\$0	\$0	\$1,773,000
306. Sand Canyon Ave & Oak Canyon/Laguna Canyon Rd	Share	32.77%	1.40%	10.00%	0.28%	19.12%	12.72%	43.52%	11.92%	3.80%	7.66%	0.32%	23.70%	0.00%	0.00%	100%
	Cost	\$291,653	\$12,460	\$89,000	\$2,492	\$170,168	\$113,208	\$387,328	\$106,088	\$33,820	\$68,174	\$2,848	\$210,930	\$0	\$0	\$890,000
310. Sand Canyon Ave & Alton Pkwy	Share	28.19%	1.31%	8.94%	0.26%	15.07%	9.17%	34.75%	11.28%	2.73%	17.46%	5.58%	37.06%	0.00%	0.00%	100%
	Cost	\$90,772	\$4,218	\$28,786	\$838	\$48,526	\$29,528	\$111,895	\$36,322	\$8,790	\$56,222	\$17,968	\$119,334	\$0	\$0	\$322,000
311. Sand Canyon Ave & I-405 northbound ramps	Share	32.29%	0.72%	10.55%	0.15%	15.73%	9.92%	37.06%	12.19%	2.04%	13.30%	3.12%	30.65%	0.00%	0.00%	100%
	Cost	\$364,877	\$8,136	\$119,215	\$1,695	\$177,749	\$112,096	\$418,778	\$137,747	\$23,052	\$150,290	\$35,256	\$346,345	\$0	\$0	\$1,130,000
321. Laguna Canyon Rd & Old Laguna Canyon Rd	Share	25.42%	3.56%	10.67%	0.62%	11.26%	7.90%	34.01%	33.39%	5.20%	0.24%	1.74%	40.57%	0.00%	0.00%	100%
	Cost	\$509,671	\$71,378	\$213,934	\$12,431	\$225,763	\$158,395	\$681,901	\$669,470	\$104,260	\$4,812	\$34,887	\$813,429	\$0	\$0	\$2,005,000
338. Alton Pkwy & Irvine Blvd (e)	Share	4.85%	1.10%	22.68%	0.17%	4.22%	2.92%	31.10%	24.22%	30.34%	7.08%	2.41%	64.05%	0.00%	0.00%	100%
	Cost	\$135,771	\$30,793	\$634,903	\$4,759	\$118,134	\$81,742	\$870,612	\$678,013	\$849,337	\$198,198	\$67,466	\$1,793,013	\$0	\$0	\$2,799,396
345. Alton Pkwy & I-5 northbound ramps	Share	8.10%	1.62%	5.33%	0.36%	4.85%	2.83%	14.98%	9.07%	6.70%	39.17%	21.98%	76.92%	0.00%	0.00%	100%
	Cost	\$2,268	\$454	\$1,493	\$100	\$1,358	\$793	\$4,194	\$2,539	\$1,876	\$10,967	\$6,154	\$21,538	\$0	\$0	\$28,000
362. Bake Pkwy & Irvine Blvd (e)	Share	3.91%	0.85%	25.65%	0.10%	2.57%	2.04%	31.20%	24.44%	29.22%	5.34%	5.90%	64.90%	0.00%	0.00%	100%
	Cost	\$247,894	\$53,890	\$1,626,210	\$6,340	\$162,938	\$129,336	\$1,978,080	\$1,549,496	\$1,852,548	\$338,556	\$374,060	\$4,114,660	\$0	\$0	\$6,340,000
364. Bake Pkwy & Jeronimo Rd	Share	0.99%	0.31%	21.51%	0.01%	0.54%	1.12%	23.50%	12.04%	22.28%	23.41%	17.78%	75.51%	0.00%	0.00%	100%
	Cost	\$45,392	\$14,213	\$986,233	\$458	\$24,759	\$51,352	\$1,077,475	\$552,034	\$1,021,538	\$1,073,348	\$815,213	\$3,462,133	\$0	\$0	\$4,585,000
368. Bake Pkwy & I-5 southbound ramps	Share	6.59%	1.01%	7.07%	0.26%	4.42%	2.38%	15.14%	9.10%	7.16%	25.40%	36.62%	78.28%	0.00%	0.00%	100%
	Cost	\$178,787	\$27,401	\$191,809	\$7,054	\$119,915	\$64,569	\$410,748	\$246,883	\$194,251	\$689,102	\$993,501	\$2,123,736	\$0	\$0	\$2,713,000
379. Lake Forest Dr & Muirlands Blvd	Share	6.21%	0.18%	2.53%	0.09%	1.01%	0.23%	4.05%	15.13%	4.28%	48.32%	22.02%	89.75%	0.00%	0.00%	100%
	Cost	\$890	\$26	\$363	\$13	\$145	\$33	\$580	\$2,168	\$613	\$6,922	\$3,154	\$12,856	\$0	\$0	\$14,324
383. Lake Forest Dr & Av Carlota/ I-5 southbound ramps (d) (e)	Share	8.24%	1.28%	20.37%	0.27%	5.69%	3.46%	31.06%	16.91%	21.70%	14.36%	7.71%	60.69%	0.00%	0.00%	100%
	Cost	\$92,700	\$14,400	\$229,162	\$3,037	\$64,012	\$38,925	\$349,425	\$190,238	\$244,125	\$161,550	\$86,738	\$682,762	\$0	\$0	\$1,125,000
406. Laguna Canyon Rd & Lake Forest Dr	Share	25.97%	3.60%	10.51%	0.64%	11.69%	8.12%	34.56%	33.45%	4.88%	0.11%	1.03%	39.47%	0.00%	0.00%	100%
	Cost	\$95,988	\$13,306	\$38,846	\$2,366	\$43,208	\$30,012	\$127,738	\$123,635	\$18,037	\$407	\$3,807	\$145,886	\$0	\$0	\$369,612

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Allocation of Costs For The List of NITM Improvements 5-Year Allocation (Except for PA40 Fair-Share) - 2011 Costs

Location		Irvine Northern Sphere Future Development Areas							Orange County Great Park Future Development Areas					PA1	Remainder (a)	Total
		PA40	PA5B	PA6	PA8A	PA9A	PA9B	Sub-Total	GP I	GP II	GP III	GP IV	Sub-Total			
407. Laguna Canyon Rd & Bake Pkwy	Share	25.48%	2.99%	10.07%	0.51%	9.02%	6.21%	28.79%	26.95%	6.44%	7.59%	4.74%	45.72%	0.00%	0.00%	100%
	Cost	\$271,362	\$31,844	\$107,246	\$5,431	\$96,063	\$66,136	\$306,614	\$287,018	\$68,586	\$80,834	\$50,481	\$486,918	\$0	\$0	\$1,065,000
Interchanges																
SR-133 at Trabuco Rd	Share	28.72%	0.30%	2.95%	0.07%	7.52%	5.08%	15.92%	48.70%	4.90%	1.08%	0.67%	55.36%	0.00%	0.00%	100%
	Cost	\$28,723,291	\$300,034	\$2,950,338	\$70,008	\$7,520,862	\$5,080,582	\$15,921,824	\$48,705,580	\$4,900,562	\$1,080,124	\$670,076	\$55,366,344	\$0	\$0	\$100,011,459
Sub-Total Cost (Fully Funded)		\$39,915,819	\$3,938,901	\$9,880,747	\$597,578	\$14,839,637	\$10,425,307	\$39,681,483	\$55,879,225	\$10,923,051	\$5,287,347	\$3,569,232	\$75,669,308	\$0	\$0	\$155,265,804
FAIR SHARE FUNDED IMPROVEMENTS IN THE NITM PROGRAM																
Intersections																
123. Jamboree Rd & Tustin Ranch Rd	Share	0.51%	0.26%	0.66%	0.04%	0.54%	0.61%	2.12%	0.23%	0.10%	0.18%	0.05%	0.56%	3.60%	92.81%	100%
	Cost	\$38	\$19	\$50	\$3	\$40	\$46	\$159	\$17	\$8	\$13	\$4	\$42	\$269	\$6,934	\$7,472
228. Culver Dr & Barranca Pkwy	Share	0.45%	0.35%	0.12%	0.05%	0.53%	0.22%	1.27%	0.12%	0.06%	0.14%	0.04%	0.36%	1.91%	95.92%	100%
	Cost	\$3,284	\$2,547	\$885	\$380	\$3,840	\$1,617	\$9,269	\$903	\$407	\$1,012	\$325	\$2,647	\$13,931	\$699,287	\$729,000
290. Jeffrey Rd & Barranca Pkwy	Share	2.65%	0.96%	0.95%	0.29%	2.93%	1.77%	6.91%	0.74%	0.49%	0.28%	0.07%	1.58%	0.45%	87.19%	100%
	Cost	\$11,877	\$4,322	\$4,241	\$1,318	\$13,140	\$7,944	\$30,965	\$3,335	\$2,188	\$312	\$7,094	\$2,037	\$390,607	\$448,000	
293. Jeffrey Rd & I-405 northbound ramps	Share	1.83%	0.74%	0.81%	0.21%	2.24%	1.49%	5.49%	0.61%	0.43%	0.36%	0.19%	1.59%	0.32%	89.83%	100%
	Cost	\$15,513	\$6,276	\$6,885	\$1,754	\$18,924	\$12,636	\$46,474	\$5,119	\$3,651	\$3,067	\$1,623	\$13,459	\$2,732	\$759,997	\$846,000
327. Barranca Pkwy & Technology Dr	Share	0.61%	0.08%	0.62%	0.02%	0.65%	0.45%	1.82%	0.73%	0.40%	1.99%	0.84%	3.95%	0.11%	93.36%	100%
	Cost	\$4,344	\$546	\$4,434	\$123	\$4,645	\$3,185	\$12,933	\$5,156	\$2,815	\$14,129	\$5,930	\$28,031	\$756	\$662,825	\$710,000
344. Alton Pkwy & Technology Dr West	Share	0.24%	0.08%	0.37%	0.02%	0.20%	0.10%	0.77%	0.65%	0.75%	3.75%	2.36%	7.51%	0.13%	91.19%	100%
	Cost	\$37	\$12	\$56	\$3	\$30	\$16	\$118	\$100	\$115	\$576	\$362	\$1,154	\$20	\$14,006	\$15,360
348. Alton Pkwy & Irvine Center Dr	Share	0.12%	0.02%	0.06%	0.00%	0.14%	0.08%	0.30%	0.13%	0.18%	1.14%	1.01%	2.46%	0.03%	97.08%	100%
	Cost	\$3,023	\$412	\$1,544	\$68	\$3,330	\$1,888	\$7,242	\$3,089	\$4,496	\$27,801	\$24,712	\$60,099	\$686	\$2,373,541	\$2,445,000
358. Irvine Center Dr & Enterprise Dr	Share	0.11%	0.02%	0.06%	0.00%	0.12%	0.07%	0.27%	0.12%	0.03%	0.05%	0.33%	0.53%	0.03%	99.05%	100%
	Cost	\$31	\$5	\$18	\$1	\$36	\$21	\$79	\$36	\$7	\$16	\$94	\$153	\$8	\$28,726	\$29,000
359. Irvine Center Dr & I-405 southbound ramps	Share	0.17%	0.03%	0.12%	0.01%	0.21%	0.14%	0.50%	0.31%	0.05%	0.02%	0.37%	0.74%	0.05%	98.52%	100%
	Cost	\$1,345	\$282	\$956	\$56	\$1,688	\$1,103	\$4,085	\$2,476	\$382	\$135	\$3,004	\$5,998	\$428	\$799,004	\$811,000
378. Lake Forest Dr & Jeronimo Rd	Share	0.08%	0.00%	0.18%	0.00%	0.01%	0.02%	0.21%	0.51%	0.31%	1.67%	0.46%	2.96%	0.01%	96.68%	100%
	Cost	\$1,938	\$104	\$4,056	\$35	\$312	\$451	\$4,957	\$11,889	\$7,105	\$38,613	\$10,745	\$68,353	\$242	\$2,234,294	\$2,311,000
380. Lake Forest Dr & Rockfield Blvd	Share	0.14%	0.02%	0.67%	0.01%	0.09%	0.05%	0.84%	0.59%	0.69%	0.68%	0.55%	2.51%	0.04%	96.40%	100%
	Cost	\$40	\$7	\$194	\$2	\$27	\$15	\$244	\$170	\$201	\$198	\$159	\$727	\$13	\$27,955	\$29,000
387. Ridge Route Dr & Rockfield Blvd	Share	0.08%	0.02%	0.48%	0.00%	0.06%	0.04%	0.60%	0.52%	0.50%	0.69%	0.53%	2.24%	0.03%	97.02%	100%
	Cost	\$127	\$26	\$801	\$6	\$107	\$71	\$1,012	\$875	\$842	\$1,162	\$886	\$3,766	\$54	\$163,000	\$168,000
390. Paseo de Valencia & Avd de la Carlota	Share	0.26%	0.06%	0.09%	0.01%	0.17%	0.12%	0.45%	0.63%	0.01%	0.40%	0.16%	1.20%	0.12%	97.77%	100%
	Cost	\$1,746	\$403	\$609	\$72	\$1,178	\$775	\$3,038	\$4,217	\$83	\$2,666	\$1,095	\$8,061	\$837	\$658,963	\$674,000
396. El Toro Rd & Avd de la Carlota	Share	0.14%	0.03%	0.29%	0.01%	0.09%	0.05%	0.47%	0.45%	0.37%	0.44%	0.23%	1.48%	0.07%	97.74%	100%
	Cost	\$15	\$3	\$32	\$1	\$10	\$6	\$52	\$49	\$41	\$49	\$25	\$164	\$7	\$10,826	\$11,077
420. El Toro Rd & Jeronimo Rd	Share	0.05%	0.01%	0.72%	0.00%	0.01%	0.01%	0.75%	0.52%	1.00%	0.93%	0.30%	2.75%	0.01%	96.41%	100%
	Cost	\$2,679	\$411	\$36,123	\$69	\$480	\$754	\$37,837	\$26,253	\$50,450	\$47,022	\$15,012	\$138,737	\$617	\$4,866,627	\$5,048,000
422. Los Alisos Blvd & Jeronimo Rd	Share	0.05%	0.01%	0.17%	0.00%	0.01%	0.01%	0.20%	0.33%	0.25%	0.77%	0.31%	1.66%	0.01%	98.08%	100%
	Cost	\$917	\$146	\$3,333	\$0	\$183	\$256	\$3,918	\$6,299	\$4,724	\$14,648	\$6,006	\$31,677	\$146	\$1,875,380	\$1,912,000
423. Muirlands Blvd & Los Alisos Blvd	Share	0.03%	0.00%	0.34%	0.00%	0.00%	0.00%	0.35%	0.23%	0.53%	0.57%	0.31%	1.63%	0.00%	97.99%	100%
	Cost	\$1,970	\$94	\$20,065	\$0	\$94	\$94	\$20,346	\$13,220	\$30,660	\$33,098	\$17,815	\$94,793	\$0	\$5,703,079	\$5,820,000
424. Los Alisos Blvd & Rockfield Blvd/Fordview St	Share	0.03%	0.00%	0.09%	0.00%	0.01%	0.00%	0.10%	0.08%	0.17%	0.10%	0.14%	0.49%	0.00%	99.37%	100%
	Cost	\$568	\$57	\$1,759	\$0	\$113	\$57	\$1,986	\$1,646	\$3,406	\$1,929	\$2,724	\$9,705	\$0	\$1,985,400	\$1,998,000
432. Alicia Pkwy & Muirlands Blvd	Share	0.07%	0.00%	0.20%	0.00%	0.02%	0.01%	0.23%	0.18%	0.30%	0.36%	0.21%	1.07%	0.01%	98.51%	100%
	Cost	\$4,693	\$227	\$13,553	\$151	\$1,211	\$379	\$15,521	\$12,341	\$20,367	\$24,455	\$14,385	\$71,549	\$606	\$6,605,134	\$6,705,000
557. Ridge Valley & Irvine Blvd	Share	1.89%	0.51%	9.08%	0.08%	2.13%	1.33%	13.13%	12.79%	7.58%	0.44%	0.13%	20.94%	0.41%	63.24%	100%
	Cost	\$2,906	\$784	\$13,984	\$130	\$3,282	\$2,042	\$20,222	\$19,702	\$11,670	\$673	\$198	\$32,243	\$635	\$97,396	\$154,000
Roadway Segments																
Jamboree Rd (Portola Pkwy to north Tustin city limits)	Share	0.52%	0.26%	0.67%	0.04%	0.53%	0.62%	2.12%	0.23%	0.10%	0.17%	0.05%	0.56%	3.61%	92.81%	100%
	Cost	\$18,265	\$9,182	\$23,610	\$1,487	\$18,888	\$21,860	\$75,025	\$8,307	\$3,672	\$6,121	\$1,748	\$19,849	\$127,928	\$3,290,105	\$3,545,000
Jeffrey Rd (future extension from Portola Pkwy to SR-241)	Share	2.58%	1.06%	1.32%	0.17%	2.26%	1.57%	6.37%	0.45%	0.18%	0.30%	0.03%	0.96%	2.39%	83.21%	100%
	Cost	\$582,814	\$238,412	\$297,718	\$39,142	\$508,849	\$353,467	\$1,437,589	\$100,821	\$40,328	\$68,796	\$7,117	\$217,061	\$539,689	\$18,770,502	\$22,559,000
SR-133 (I-405 to Lake Forest Dr)	Share	0.57%	0.15%	0.45%	0.03%	0.47%	0.33%	1.42%	1.40%	0.22%	0.01%	0.03%	1.65%	0.31%	95.55%	100%
	Cost	\$28,143	\$7,378	\$22,135	\$1,277	\$23,341	\$16,389	\$70,520	\$69,243	\$10,713	\$426	\$1,561	\$81,943	\$15,324	\$4,732,817	\$4,953,105

Allocation of Costs For The List of NITM Improvements 5-Year Allocation (Except for PA40 Fair-Share) - 2011 Costs

Location	PA40	Irvine Northern Sphere Future Development Areas						Orange County Great Park Future Development Areas					PA1	Remainder (a)	Total	
		PA5B	PA6	PA8A	PA9A	PA9B	Sub-Total	GP I	GP II	GP III	GP IV	Sub-Total				
Freeway Mainline																
I-5 (Sand Canyon Ave to Jeffrey Rd) (f)	Share	0.80%	0.19%	0.05%	0.05%	0.24%	0.12%	0.64%	0.57%	0.07%	0.77%	0.42%	1.85%	0.42%	96.02%	100%
	Cost	\$83,088	\$19,779	\$4,758	\$4,792	\$24,741	\$12,031	\$66,102	\$59,542	\$7,681	\$80,103	\$43,943	\$191,269	\$43,433	\$9,947,657	\$10,360,000
I-405 (Sand Canyon Ave to Jeffrey Rd)	Share	0.35%	0.00%	0.26%	0.00%	0.17%	0.11%	0.54%	0.48%	0.18%	0.47%	0.36%	1.49%	0.00%	97.52%	100%
	Cost	\$1,652	\$0	\$1,254	\$0	\$805	\$517	\$2,575	\$2,268	\$868	\$2,251	\$1,690	\$7,077	\$0	\$463,212	\$475,000
Freeway Ramps																
I-5 at Alton Pkwy (southbound off-ramp)	Share	1.77%	0.41%	1.37%	0.08%	1.70%	1.15%	4.72%	1.98%	0.68%	1.77%	1.15%	5.59%	0.67%	86.71%	100%
	Cost	\$74,099	\$17,169	\$57,427	\$3,552	\$71,439	\$48,152	\$197,739	\$83,082	\$28,615	\$74,399	\$48,349	\$234,446	\$28,023	\$3,634,895	\$4,192,000
I-5 at Bake Pkwy (southbound off-ramp)	Share	0.89%	0.16%	0.09%	0.05%	0.81%	0.38%	1.48%	0.77%	0.00%	0.02%	4.34%	5.13%	0.34%	91.77%	100%
	Cost	\$27,347	\$4,879	\$2,697	\$1,412	\$24,910	\$11,813	\$45,712	\$23,755	\$128	\$513	\$134,053	\$158,450	\$10,401	\$2,834,761	\$3,089,000
I-5 at Culver Drive (southbound off-ramp)	Share	1.35%	0.85%	0.62%	0.05%	2.77%	0.68%	4.97%	0.38%	0.31%	0.00%	0.00%	0.68%	4.17%	86.53%	100%
	Cost	\$75,168	\$47,194	\$34,405	\$3,044	\$154,369	\$37,755	\$276,769	\$21,008	\$17,051	\$0	\$0	\$38,059	\$232,011	\$4,814,379	\$5,564,000
I-5 at El Toro Rd (northbound loop on-ramp)	Share	0.53%	0.11%	0.18%	0.02%	0.32%	0.21%	0.84%	1.76%	0.00%	2.10%	0.86%	4.72%	0.25%	93.30%	100%
	Cost	\$1,234	\$257	\$410	\$51	\$735	\$496	\$1,949	\$4,103	\$0	\$4,889	\$2,001	\$10,993	\$582	\$217,392	\$233,000
I-5 at El Toro Rd (southbound off-ramp)	Share	0.41%	0.09%	0.14%	0.02%	0.26%	0.17%	0.69%	0.94%	0.02%	0.56%	0.26%	1.79%	0.20%	96.56%	100%
	Cost	\$8,344	\$1,879	\$2,898	\$322	\$5,314	\$3,435	\$13,847	\$19,000	\$429	\$11,325	\$5,260	\$36,015	\$4,079	\$1,945,762	\$2,015,000
I-5 at Jamboree Rd (northbound off-ramp)	Share	3.09%	0.03%	0.02%	0.05%	0.61%	0.05%	0.75%	0.49%	0.02%	0.92%	0.41%	1.84%	0.05%	93.46%	100%
	Cost	\$151,715	\$1,575	\$788	\$2,362	\$29,920	\$2,362	\$37,006	\$24,015	\$788	\$45,273	\$20,078	\$90,153	\$2,362	\$4,587,151	\$4,908,000
I-5 at Jamboree Rd (southbound off-ramp)	Share	0.00%	0.01%	0.05%	0.00%	0.39%	0.04%	0.49%	0.00%	0.00%	0.00%	0.00%	0.00%	0.22%	99.31%	100%
	Cost	\$0	\$297	\$1,779	\$0	\$12,752	\$1,186	\$16,014	\$0	\$0	\$0	\$0	\$0	\$7,117	\$3,240,462	\$3,263,000
I-5 at Jeffrey Rd (southbound on-ramp)	Share	0.35%	1.47%	0.00%	0.46%	1.24%	0.41%	3.58%	0.43%	0.01%	0.58%	0.71%	1.72%	1.13%	93.26%	100%
	Cost	\$572	\$2,391	\$0	\$753	\$2,026	\$664	\$5,832	\$697	\$22	\$940	\$1,151	\$2,811	\$1,837	\$152,021	\$163,000
I-5 at Sand Canyon Ave (northbound on-ramp)	Share	9.79%	0.05%	0.14%	0.01%	0.20%	0.08%	0.48%	2.56%	0.08%	5.82%	0.00%	8.46%	0.05%	83.13%	100%
	Cost	\$53,670	\$275	\$779	\$46	\$1,101	\$413	\$2,614	\$14,030	\$413	\$31,912	\$0	\$46,354	\$275	\$455,566	\$548,000
I-405 at Irvine Center Dr (southbound off-ramp)	Share	0.40%	0.13%	0.39%	0.03%	0.58%	0.43%	1.55%	1.19%	0.15%	0.06%	0.31%	1.71%	0.17%	96.14%	100%
	Cost	\$24,255	\$7,804	\$23,412	\$1,672	\$35,119	\$26,199	\$94,208	\$72,467	\$8,919	\$3,902	\$18,953	\$104,242	\$10,591	\$5,845,318	\$6,080,000
I-405 at Jeffrey Rd (northbound off-ramp)	Share	0.22%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.16%	0.02%	0.46%	0.59%	1.22%	0.00%	98.76%	100%
	Cost	\$11,851	\$0	\$0	\$0	\$0	\$0	\$0	\$8,611	\$891	\$24,645	\$31,772	\$65,918	\$0	\$5,345,894	\$5,413,000
I-405 at Sand Canyon Ave (northbound direct on-ramp)	Share	3.43%	0.00%	1.11%	0.00%	1.71%	1.10%	3.92%	1.98%	0.14%	1.77%	0.00%	3.90%	0.00%	88.89%	100%
	Cost	\$19,298	\$0	\$6,262	\$0	\$9,601	\$6,169	\$22,033	\$11,133	\$788	\$9,972	\$0	\$21,893	\$0	\$499,566	\$562,000
I-405 at Sand Canyon Ave (southbound off-ramp)	Share	2.07%	0.00%	1.07%	0.00%	1.35%	0.80%	3.23%	0.49%	0.03%	1.20%	0.00%	1.72%	0.00%	92.12%	100%
	Cost	\$102,645	\$0	\$53,318	\$0	\$67,257	\$39,728	\$160,303	\$24,394	\$1,394	\$59,591	\$0	\$85,379	\$0	\$4,576,303	\$4,968,000
SR-133 at Barranca Pkwy (southbound loop on-ramp)	Share	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.09%	0.09%	0.00%	99.93%	100%
	Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$285	\$285	\$0	\$333,772	\$334,000

Allocation of Costs For The List of NITM Improvements 5-Year Allocation (Except for PA40 Fair-Share) - 2011 Costs

Location	PA40	Irvine Northern Sphere Future Development Areas						Orange County Great Park Future Development Areas					PA1	Remainder (a)	Total	
		PA5B	PA6	PA8A	PA9A	PA9B	Sub-Total	GP I	GP II	GP III	GP IV	Sub-Total				
Interchanges																
SR-241 at Jeffrey Rd	Share	2.36%	0.94%	1.18%	0.15%	2.00%	1.39%	5.67%	0.59%	0.23%	0.33%	0.13%	1.29%	2.13%	84.59%	100%
	Cost	\$428,434	\$170,701	\$214,014	\$28,026	\$364,334	\$253,080	\$1,030,154	\$107,857	\$42,463	\$60,298	\$23,780	\$234,396	\$386,415	\$15,378,436	\$18,181,000
Sub-Total Cost (Partially Funded Improvement Locations)		\$1,749,683	\$545,854	\$861,246	\$92,111	\$1,408,171	\$869,070	\$3,776,447	\$771,224	\$308,782	\$697,878	\$447,157	\$2,225,046	\$1,434,091	\$121,028,952	\$125,571,014
NITM PROGRAM ADMINISTRATIVE COSTS AND CALTRANS CONTINGENCY FUND																
Share of Administrative Costs (b)		26.26%	2.69%	6.48%	0.41%	9.74%	6.78%	26.09%	33.95%	6.73%	3.63%	2.43%	46.75%	0.90%	0%	100%
NITM Program Establishment Cost (b)		\$72,528	\$7,423	\$17,884	\$1,132	\$26,896	\$18,727	\$72,060	\$93,754	\$18,598	\$10,022	\$6,710	\$129,100	\$2,490	\$0	\$276,179
NITM Program Administration Cost (b)		\$637,621	\$65,260	\$157,225	\$9,952	\$236,451	\$164,633	\$633,512	\$824,227	\$163,499	\$88,107	\$58,989	\$1,134,974	\$21,892	\$0	\$2,428,000
Share of Caltrans Contingency Fund (b)		27.56%	3.15%	5.80%	0.55%	13.41%	5.82%	28.73%	11.22%	2.07%	10.66%	9.37%	33.32%	10.38%	0%	100%
Caltrans Contingency Fund (b)		\$137,821	\$15,769	\$28,981	\$2,743	\$67,059	\$29,091	\$143,643	\$56,099	\$10,362	\$53,296	\$46,861	\$166,618	\$51,917	\$0	\$500,000
Sub-Total Cost (Administrative and		\$847,970	\$88,452	\$204,091	\$13,827	\$330,405	\$212,451	\$849,216	\$974,080	\$192,459	\$151,425	\$112,560	\$1,430,693	\$76,300	\$0	\$3,204,179
TOTAL (LIST OF NITM IMPROVEMENTS, NITM PROGRAM ADMINISTRATIVE COSTS, AND CALTRANS CONTINGENCY FUND)																
Total Cost		\$42,513,471	\$4,573,207	\$10,946,084	\$703,517	\$16,578,213	\$11,506,827	\$44,307,146	\$57,624,529	\$11,424,291	\$6,136,650	\$4,128,949	\$79,325,047	\$1,510,391	\$121,028,952	\$284,040,997
Share of Total Cost		14.97%	1.61%	3.85%	0.25%	5.84%	4.05%	15.60%	20.29%	4.02%	2.16%	1.45%	27.93%	0.53%	42.61%	100.00%

(a) Traffic share percentage and allocated cost for existing traffic and future traffic due to future development in areas other than PA40, the Irvine Northern Sphere Area, the Orange County Great Park and PA1.

(b) Allocation of Administrative Costs held as part of PA 40 GPA/ZC Re-Allocation

(e) The cost estimate at this intersection includes a contribution to the City of Irvine Traffic Management Systems Operation Study (TMSOS).

(f) The cost estimate for the I-5 mainline improvements at this location includes the cost to add a second drop lane from I-5 to the southbound off-ramp at Sand Canyon Avenue.

Allocation of Costs For The List of NITM Improvements - Great Park Neighborhoods 2011 GPA/ZC 2011 Costs

Location	PA40	Irvine Northern Sphere Future Development Areas						Orange County Great Park Future Development Areas					PA1	Remainder (a)	Total	
		PA5B	PA6	PA8A	PA9A	PA9B	Sub-Total	GP I	GP II	GP III	GP IV	Sub-Total				
FULLY FUNDED IMPROVEMENTS IN THE NITM PROGRAM																
Intersections																
34. Red Hill Ave & Irvine Blvd (d)	Share	5.11%	22.37%	13.02%	0.82%	12.15%	24.08%	72.43%	10.98%	9.60%	1.41%	0.47%	22.46%	0.00%	0.00%	100%
	Cost	\$ 8,079	\$ 35,374	\$ 20,589	\$ 1,294	\$ 19,217	\$ 38,080	\$ 114,555	\$ 17,373	\$ 15,177	\$ 2,235	\$ 745	\$ 35,531	\$ -	\$ -	\$ 158,165
91. Tustin Ranch Rd & Irvine Blvd (d)	Share	3.84%	20.43%	19.22%	0.76%	11.11%	24.70%	76.21%	9.87%	8.75%	0.99%	0.35%	19.95%	0.00%	0.00%	100%
	Cost	\$ 6,072	\$ 32,308	\$ 30,393	\$ 1,201	\$ 17,567	\$ 39,062	\$ 120,531	\$ 15,618	\$ 13,833	\$ 1,559	\$ 552	\$ 31,562	\$ -	\$ -	\$ 158,165
125. Jamboree Rd & Irvine Blvd	Share	4.24%	24.75%	10.72%	0.76%	11.85%	25.06%	73.14%	10.40%	9.50%	1.93%	0.80%	22.62%	0.00%	0.00%	100%
	Cost	\$ 41,883	\$ 244,531	\$ 105,896	\$ 7,499	\$ 117,053	\$ 247,640	\$ 722,619	\$ 102,787	\$ 93,825	\$ 19,021	\$ 7,864	\$ 223,498	\$ -	\$ -	\$ 988,000
222. Culver Dr & Trabuco Rd	Share	16.82%	14.49%	3.96%	0.80%	36.87%	12.76%	68.88%	6.99%	3.15%	2.80%	1.35%	14.30%	0.00%	0.00%	100%
	Cost	\$ 536,870	\$ 462,478	\$ 126,414	\$ 25,491	\$ 1,176,743	\$ 407,334	\$ 2,198,460	\$ 223,175	\$ 100,403	\$ 89,478	\$ 43,178	\$ 456,235	\$ -	\$ -	\$ 3,191,565
223. Culver Dr & I-5 southbound ramps	Share	12.11%	18.36%	4.93%	0.88%	35.25%	15.70%	75.12%	6.03%	3.56%	1.86%	1.32%	12.77%	0.00%	0.00%	100%
	Cost	\$ 44,409	\$ 67,330	\$ 18,086	\$ 3,223	\$ 129,288	\$ 57,571	\$ 275,499	\$ 22,115	\$ 13,072	\$ 6,805	\$ 4,835	\$ 46,827	\$ -	\$ -	\$ 366,735
224. Culver Dr & Walnut Ave (d)	Share	12.01%	18.33%	5.44%	1.00%	31.96%	14.83%	71.57%	8.45%	4.83%	2.20%	0.94%	16.42%	0.00%	0.00%	100%
	Cost	\$ 19,002	\$ 28,990	\$ 8,605	\$ 1,588	\$ 50,553	\$ 23,458	\$ 113,195	\$ 13,368	\$ 7,632	\$ 3,483	\$ 1,485	\$ 25,968	\$ -	\$ -	\$ 158,165
235. Culver Dr & University Dr	Share	16.89%	5.76%	11.60%	1.16%	17.98%	12.25%	48.75%	11.96%	8.81%	9.17%	4.42%	34.36%	0.00%	0.00%	100%
	Cost	\$ 677,803	\$ 231,267	\$ 465,444	\$ 46,544	\$ 721,438	\$ 491,625	\$ 1,956,319	\$ 479,989	\$ 353,447	\$ 367,992	\$ 177,451	\$ 1,378,878	\$ -	\$ -	\$ 4,013,000
249. Yale Ave & Irvine Blvd	Share	4.02%	30.93%	9.56%	0.26%	9.05%	27.32%	77.11%	9.22%	8.78%	0.66%	0.20%	18.87%	0.00%	0.00%	100%
	Cost	\$ 176,643	\$ 1,358,913	\$ 419,915	\$ 11,234	\$ 397,835	\$ 1,200,477	\$ 3,388,373	\$ 405,195	\$ 385,826	\$ 29,053	\$ 8,910	\$ 828,984	\$ -	\$ -	\$ 4,394,000
288. Jeffrey Rd & Walnut Ave/ I-5 southbound ramps	Share	25.69%	10.91%	8.33%	3.91%	26.24%	15.66%	65.05%	4.46%	2.96%	1.07%	0.77%	9.26%	0.00%	0.00%	100%
	Cost	\$ 290,688	\$ 123,487	\$ 94,195	\$ 44,235	\$ 296,859	\$ 177,164	\$ 735,939	\$ 50,406	\$ 33,529	\$ 12,118	\$ 8,698	\$ 104,752	\$ -	\$ -	\$ 1,131,379
289. Jeffrey Rd & Irvine Center Dr	Share	23.80%	9.51%	8.61%	3.11%	26.15%	15.58%	62.96%	5.38%	4.02%	2.87%	0.98%	13.25%	0.00%	0.00%	100%
	Cost	\$ 2,603,794	\$ 1,040,674	\$ 941,924	\$ 340,139	\$ 2,861,220	\$ 1,704,072	\$ 6,888,028	\$ 588,280	\$ 439,733	\$ 313,975	\$ 107,190	\$ 1,449,178	\$ -	\$ -	\$ 10,941,000
291. Jeffrey Rd & Alton Pkwy	Share	20.69%	7.95%	9.02%	2.42%	26.01%	16.00%	61.40%	5.91%	4.86%	4.99%	2.16%	17.91%	0.00%	0.00%	100%
	Cost	\$ 247,270	\$ 95,039	\$ 107,795	\$ 28,876	\$ 310,770	\$ 191,200	\$ 733,681	\$ 70,649	\$ 58,033	\$ 59,575	\$ 25,792	\$ 214,049	\$ -	\$ -	\$ 1,195,000
302. Sand Canyon Ave & Trabuco Rd	Share	18.89%	1.24%	11.73%	0.30%	30.14%	16.68%	60.09%	10.89%	4.47%	4.64%	1.02%	21.02%	0.00%	0.00%	100%
	Cost	\$ 78,742	\$ 5,164	\$ 48,901	\$ 1,258	\$ 125,654	\$ 69,512	\$ 250,490	\$ 45,391	\$ 18,621	\$ 19,353	\$ 4,242	\$ 87,607	\$ -	\$ -	\$ 416,839
303. Sand Canyon Ave & I-5 northbound ramps/Marine Wy	Share	31.10%	1.08%	7.18%	0.22%	15.50%	8.96%	32.94%	10.31%	7.86%	16.42%	1.37%	35.96%	0.00%	0.00%	100%
	Cost	\$ 927,636	\$ 32,085	\$ 214,092	\$ 6,709	\$ 462,408	\$ 267,275	\$ 982,569	\$ 307,527	\$ 234,607	\$ 489,826	\$ 40,835	\$ 1,072,795	\$ -	\$ -	\$ 2,983,000
305. Sand Canyon Ave & I-5 southbound ramps	Share	29.92%	1.24%	8.84%	0.24%	17.15%	10.37%	37.84%	11.99%	8.16%	11.76%	0.33%	32.24%	0.00%	0.00%	100%
	Cost	\$ 530,406	\$ 21,904	\$ 156,772	\$ 4,280	\$ 304,144	\$ 183,880	\$ 670,981	\$ 212,666	\$ 144,603	\$ 208,554	\$ 5,791	\$ 571,613	\$ -	\$ -	\$ 1,773,000
306. Sand Canyon Ave & Oak Canyon/Laguna Canyon Rd	Share	26.15%	1.41%	10.51%	0.28%	18.32%	12.31%	42.84%	12.23%	8.65%	9.84%	0.29%	31.01%	0.00%	0.00%	100%
	Cost	\$ 232,746	\$ 12,588	\$ 93,539	\$ 2,484	\$ 163,086	\$ 109,571	\$ 381,267	\$ 108,837	\$ 76,999	\$ 87,555	\$ 2,597	\$ 275,987	\$ -	\$ -	\$ 890,000
310. Sand Canyon Ave & Alton Pkwy	Share	21.00%	1.19%	9.69%	0.24%	13.52%	8.29%	32.94%	11.34%	9.31%	19.83%	5.59%	46.06%	0.00%	0.00%	100%
	Cost	\$ 67,628	\$ 3,842	\$ 31,188	\$ 768	\$ 43,548	\$ 26,705	\$ 106,053	\$ 36,504	\$ 29,971	\$ 63,849	\$ 17,996	\$ 148,320	\$ -	\$ -	\$ 322,000
311. Sand Canyon Ave & I-405 northbound ramps	Share	22.97%	0.65%	11.88%	0.14%	14.62%	9.00%	36.29%	12.50%	9.90%	16.93%	1.41%	40.74%	0.00%	0.00%	100%
	Cost	\$ 259,543	\$ 7,334	\$ 134,235	\$ 1,594	\$ 165,164	\$ 101,713	\$ 410,040	\$ 141,250	\$ 111,916	\$ 191,309	\$ 15,942	\$ 460,418	\$ -	\$ -	\$ 1,130,000
321. Laguna Canyon Rd & Old Laguna Canyon Rd	Share	15.90%	4.09%	15.34%	0.72%	13.47%	9.34%	42.97%	34.38%	3.38%	1.55%	1.83%	41.14%	0.00%	0.00%	100%
	Cost	\$ 318,760	\$ 82,081	\$ 307,603	\$ 14,344	\$ 270,149	\$ 187,271	\$ 861,449	\$ 689,318	\$ 67,736	\$ 31,079	\$ 36,657	\$ 824,791	\$ -	\$ -	\$ 2,005,000
338. Alton Pkwy & Irvine Blvd (e)	Share	3.19%	1.15%	18.49%	0.17%	4.47%	3.21%	27.50%	26.77%	34.45%	6.48%	1.60%	69.30%	0.00%	0.00%	100%
	Cost	\$ 89,388	\$ 32,311	\$ 517,726	\$ 4,889	\$ 125,100	\$ 89,919	\$ 769,946	\$ 749,326	\$ 964,451	\$ 181,432	\$ 44,853	\$ 1,940,063	\$ -	\$ -	\$ 2,799,396
345. Alton Pkwy & I-5 northbound ramps	Share	3.88%	1.51%	4.18%	0.30%	3.89%	2.51%	12.39%	6.98%	11.05%	40.98%	24.72%	83.73%	0.00%	0.00%	100%
	Cost	\$ 1,086	\$ 422	\$ 1,170	\$ 84	\$ 1,089	\$ 704	\$ 3,469	\$ 1,954	\$ 3,094	\$ 11,474	\$ 6,922	\$ 23,445	\$ -	\$ -	\$ 28,000
362. Bake Pkwy & Irvine Blvd (e)	Share	2.48%	0.90%	21.74%	0.10%	2.84%	2.39%	27.97%	27.32%	31.99%	4.81%	5.44%	69.56%	0.00%	0.00%	100%
	Cost	\$ 156,978	\$ 57,208	\$ 1,378,022	\$ 6,407	\$ 179,861	\$ 151,486	\$ 1,772,985	\$ 1,732,253	\$ 2,027,903	\$ 304,803	\$ 345,078	\$ 4,410,037	\$ -	\$ -	\$ 6,340,000
364. Bake Pkwy & Jeronimo Rd	Share	0.80%	0.50%	22.54%	0.00%	0.99%	1.95%	25.98%	10.82%	18.64%	24.96%	18.80%	73.22%	0.00%	0.00%	100%
	Cost	\$ 36,520	\$ 22,739	\$ 1,033,589	\$ -	\$ 45,478	\$ 89,578	\$ 1,191,383	\$ 496,123	\$ 854,433	\$ 1,144,527	\$ 862,013	\$ 3,357,096	\$ -	\$ -	\$ 4,585,000
368. Bake Pkwy & I-5 southbound ramps	Share	5.49%	1.05%	6.46%	0.27%	4.67%	2.40%	14.85%	7.85%	17.30%	22.54%	31.98%	79.67%	0.00%	0.00%	100%
	Cost	\$ 148,875	\$ 28,426	\$ 175,374	\$ 7,227	\$ 126,713	\$ 65,043	\$ 402,782	\$ 212,954	\$ 469,270	\$ 611,401	\$ 867,717	\$ 2,161,342	\$ -	\$ -	\$ 2,713,000
379. Lake Forest Dr & Muirlands Blvd	Share	4.81%	0.14%	2.74%	0.05%	0.96%	0.24%	4.14%	9.00%	4.72%	56.35%	20.98%	91.05%	0.00%	0.00%	100%
	Cost	\$ 689	\$ 21	\$ 393	\$ 7	\$ 138	\$ 34	\$ 593	\$ 1,289	\$ 676	\$ 8,072	\$ 3,005	\$ 13,042	\$ -	\$ -	\$ 14,324

Allocation of Costs For The List of NITM Improvements - Great Park Neighborhoods 2011 GPA/ZC 2011 Costs

Location	PA40	Irvine Northern Sphere Future Development Areas							Orange County Great Park Future Development Areas					PA1	Remainder (a)	Total
		PA5B	PA6	PA8A	PA9A	PA9B	Sub-Total	GP I	GP II	GP III	GP IV	Sub-Total				
383. Lake Forest Dr & Av Carlota/ I-5 southbound ramps (d) (e)	Share	6.50%	1.46%	20.70%	0.36%	6.80%	4.01%	33.33%	15.06%	22.10%	14.45%	8.56%	60.17%	0.00%	0.00%	100%
	Cost	\$ 73,087	\$ 16,393	\$ 232,923	\$ 4,098	\$ 76,503	\$ 45,082	\$ 375,000	\$ 169,399	\$ 248,634	\$ 162,568	\$ 96,311	\$ 676,913	\$ -	\$ -	\$ 1,125,000
406. Laguna Canyon Rd & Lake Forest Dr	Share	16.20%	4.09%	15.21%	0.74%	13.74%	9.45%	43.23%	34.11%	2.99%	1.60%	1.88%	40.57%	0.00%	0.00%	100%
	Cost	\$ 59,864	\$ 15,117	\$ 56,235	\$ 2,721	\$ 50,793	\$ 34,920	\$ 159,787	\$ 126,076	\$ 11,035	\$ 5,896	\$ 6,954	\$ 149,961	\$ -	\$ -	\$ 369,612
407. Laguna Canyon Rd & Bake Pkwy	Share	14.59%	3.48%	13.28%	0.58%	10.59%	7.17%	35.09%	26.40%	8.38%	9.69%	5.85%	50.32%	0.00%	0.00%	100%
	Cost	\$ 155,429	\$ 37,034	\$ 141,401	\$ 6,172	\$ 112,785	\$ 76,312	\$ 373,704	\$ 281,120	\$ 89,218	\$ 103,246	\$ 62,284	\$ 535,867	\$ -	\$ -	\$ 1,065,000
Interchanges																
SR-133 at Trabuco Rd	Share	19.87%	0.16%	5.08%	0.10%	9.41%	5.79%	20.54%	47.63%	10.24%	1.56%	0.16%	59.59%	0.00%	0.00%	100%
	Cost	\$ 19,873,760	\$ 162,014	\$ 5,076,450	\$ 97,209	\$ 9,413,034	\$ 5,789,313	\$ 20,538,019	\$ 47,637,620	\$ 10,244,707	\$ 1,560,738	\$ 156,614	\$ 59,599,679	\$ -	\$ -	\$ 100,011,459
Sub-Total Cost (Fully Funded Improvement Locations)		\$ 27,663,652	\$ 4,257,076	\$ 11,938,871	\$ 671,577	\$ 17,764,190	\$ 11,866,002	\$ 46,497,715	\$ 54,938,562	\$ 17,112,386	\$ 6,090,976	\$ 2,962,513	\$ 81,104,436	\$ -	\$ -	\$ 155,265,804
FAIR SHARE FUNDED IMPROVEMENTS IN THE NITM PROGRAM																
Intersections																
123. Jamboree Rd & Tustin Ranch Rd	Share	0.51%	0.26%	0.75%	0.04%	0.56%	0.66%	2.28%	0.18%	0.13%	0.21%	0.04%	0.57%	3.71%	92.92%	100%
	Cost	\$ 38	\$ 20	\$ 56	\$ 3	\$ 42	\$ 50	\$ 171	\$ 14	\$ 10	\$ 16	\$ 3	\$ 43	\$ 278	\$ 6,943	\$ 7,472
228. Culver Dr & Barranca Pkwy	Share	0.44%	0.36%	0.14%	0.05%	0.54%	0.24%	1.32%	0.14%	0.11%	0.14%	0.04%	0.43%	1.93%	95.88%	100%
	Cost	\$ 3,204	\$ 2,639	\$ 987	\$ 377	\$ 3,913	\$ 1,741	\$ 9,658	\$ 1,023	\$ 817	\$ 987	\$ 296	\$ 3,123	\$ 14,082	\$ 698,932	\$ 729,000
290. Jeffrey Rd & Barranca Pkwy	Share	2.66%	0.99%	1.07%	0.31%	3.23%	1.94%	7.54%	0.71%	0.54%	0.34%	0.06%	1.64%	0.48%	87.68%	100%
	Cost	\$ 11,920	\$ 4,457	\$ 4,804	\$ 1,370	\$ 14,453	\$ 8,677	\$ 33,760	\$ 3,173	\$ 2,397	\$ 1,516	\$ 267	\$ 7,352	\$ 2,160	\$ 392,807	\$ 448,000
293. Jeffrey Rd & I-405 northbound ramps	Share	1.83%	0.78%	0.91%	0.22%	2.47%	1.64%	6.02%	0.57%	0.46%	0.40%	0.16%	1.60%	0.35%	90.20%	100%
	Cost	\$ 15,518	\$ 6,562	\$ 7,723	\$ 1,844	\$ 20,882	\$ 13,901	\$ 50,912	\$ 4,849	\$ 3,903	\$ 3,412	\$ 1,365	\$ 13,530	\$ 2,981	\$ 763,058	\$ 846,000
327. Barranca Pkwy & Technology Dr	Share	0.58%	0.07%	0.63%	0.01%	0.65%	0.44%	1.80%	0.75%	0.68%	2.00%	0.94%	4.37%	0.10%	93.15%	100%
	Cost	\$ 4,129	\$ 465	\$ 4,508	\$ 103	\$ 4,594	\$ 3,114	\$ 12,784	\$ 5,317	\$ 4,818	\$ 14,229	\$ 6,641	\$ 31,005	\$ 740	\$ 661,342	\$ 710,000
344. Alton Pkwy & Technology Dr West	Share	0.14%	0.09%	0.34%	0.02%	0.16%	0.10%	0.70%	0.49%	1.40%	4.31%	2.84%	9.05%	0.12%	90.00%	100%
	Cost	\$ 21	\$ 13	\$ 52	\$ 3	\$ 24	\$ 16	\$ 108	\$ 76	\$ 215	\$ 662	\$ 437	\$ 1,389	\$ 18	\$ 13,824	\$ 15,360
348. Alton Pkwy & Irvine Center Dr	Share	0.10%	0.01%	0.08%	0.00%	0.11%	0.07%	0.27%	0.13%	0.42%	1.43%	1.21%	3.20%	0.02%	96.41%	100%
	Cost	\$ 2,411	\$ 340	\$ 1,969	\$ 68	\$ 2,716	\$ 1,596	\$ 6,689	\$ 3,192	\$ 10,356	\$ 35,075	\$ 29,507	\$ 78,129	\$ 611	\$ 2,357,160	\$ 2,445,000
358. Irvine Center Dr & Enterprise Dr	Share	0.08%	0.01%	0.08%	0.00%	0.10%	0.06%	0.25%	0.13%	0.07%	0.27%	0.31%	0.79%	0.02%	98.86%	100%
	Cost	\$ 24	\$ 4	\$ 22	\$ 1	\$ 28	\$ 17	\$ 72	\$ 38	\$ 19	\$ 80	\$ 91	\$ 228	\$ 7	\$ 28,668	\$ 29,000
359. Irvine Center Dr & I-405 southbound ramps	Share	0.14%	0.03%	0.16%	0.01%	0.19%	0.13%	0.52%	0.32%	0.04%	0.03%	0.34%	0.74%	0.05%	98.56%	100%
	Cost	\$ 1,148	\$ 273	\$ 1,284	\$ 45	\$ 1,546	\$ 1,034	\$ 4,182	\$ 2,625	\$ 341	\$ 261	\$ 2,750	\$ 5,978	\$ 409	\$ 799,282	\$ 811,000
378. Lake Forest Dr & Jeronimo Rd	Share	0.09%	0.00%	0.18%	0.00%	0.02%	0.02%	0.22%	0.23%	0.31%	1.59%	0.45%	2.58%	0.01%	97.11%	100%
	Cost	\$ 1,988	\$ 105	\$ 4,045	\$ 35	\$ 349	\$ 453	\$ 4,987	\$ 5,371	\$ 7,254	\$ 36,652	\$ 10,323	\$ 59,599	\$ 209	\$ 2,244,217	\$ 2,311,000
380. Lake Forest Dr & Rockfield Blvd	Share	0.15%	0.02%	0.61%	0.01%	0.10%	0.05%	0.79%	0.53%	0.79%	0.63%	0.56%	2.50%	0.05%	96.51%	100%
	Cost	\$ 43	\$ 6	\$ 177	\$ 2	\$ 30	\$ 15	\$ 231	\$ 155	\$ 228	\$ 182	\$ 161	\$ 726	\$ 14	\$ 27,987	\$ 29,000
387. Ridge Route Dr & Rockfield Blvd	Share	0.08%	0.02%	0.45%	0.00%	0.07%	0.04%	0.58%	0.50%	0.67%	0.70%	0.58%	2.45%	0.03%	96.86%	100%
	Cost	\$ 139	\$ 27	\$ 759	\$ 6	\$ 109	\$ 68	\$ 969	\$ 836	\$ 1,128	\$ 1,181	\$ 969	\$ 4,113	\$ 50	\$ 162,729	\$ 168,000
390. Paseo de Valencia & Avd de la Carlota	Share	0.24%	0.06%	0.13%	0.01%	0.18%	0.12%	0.50%	0.53%	0.10%	0.29%	0.15%	1.08%	0.13%	98.06%	100%
	Cost	\$ 1,639	\$ 407	\$ 856	\$ 73	\$ 1,221	\$ 793	\$ 3,351	\$ 3,570	\$ 678	\$ 1,973	\$ 1,033	\$ 7,254	\$ 845	\$ 660,911	\$ 674,000
396. El Toro Rd & Avd de la Carlota	Share	0.13%	0.03%	0.26%	0.01%	0.09%	0.06%	0.44%	0.32%	0.43%	0.30%	0.19%	1.24%	0.07%	98.12%	100%
	Cost	\$ 14	\$ 3	\$ 29	\$ 1	\$ 10	\$ 6	\$ 49	\$ 36	\$ 47	\$ 33	\$ 22	\$ 137	\$ 7	\$ 10,869	\$ 11,077
420. El Toro Rd & Jeronimo Rd	Share	0.05%	0.01%	0.59%	0.00%	0.01%	0.02%	0.63%	0.30%	0.86%	0.99%	0.28%	2.43%	0.01%	96.88%	100%
	Cost	\$ 2,647	\$ 418	\$ 29,879	\$ -	\$ 557	\$ 766	\$ 31,620	\$ 15,323	\$ 43,321	\$ 49,729	\$ 14,347	\$ 122,719	\$ 696	\$ 4,890,317	\$ 5,048,000
422. Los Alisos Blvd & Jeronimo Rd	Share	0.05%	0.01%	0.16%	0.00%	0.01%	0.02%	0.19%	0.20%	0.26%	0.94%	0.30%	1.70%	0.01%	98.05%	100%
	Cost	\$ 918	\$ 147	\$ 3,010	\$ -	\$ 184	\$ 294	\$ 3,634	\$ 3,818	\$ 4,993	\$ 18,061	\$ 5,653	\$ 32,525	\$ 147	\$ 1,874,776	\$ 1,912,000
423. Muirlands Blvd & Los Alisos Blvd	Share	0.05%	0.00%	0.28%	0.00%	0.00%	0.00%	0.28%	0.13%	0.40%	0.94%	0.28%	1.75%	0.00%	97.91%	100%
	Cost	\$ 2,998	\$ 94	\$ 16,395	\$ -	\$ 94	\$ -	\$ 16,583	\$ 7,682	\$ 23,422	\$ 54,714	\$ 16,021	\$ 101,839	\$ -	\$ 5,698,580	\$ 5,820,000
424. Los Alisos Blvd & Rockfield Blvd/Fordview St	Share	0.03%	0.00%	0.08%	0.00%	0.00%	0.00%	0.09%	0.06%	0.19%	0.30%	0.16%	0.71%	0.00%	99.16%	100%
	Cost	\$ 677	\$ 56	\$ 1,635	\$ -	\$ 56	\$ 56	\$ 1,804	\$ 1,184	\$ 3,834	\$ 6,089	\$ 3,101	\$ 14,207	\$ -	\$ 1,981,312	\$ 1,998,000
432. Alicia Pkwy & Muirlands Blvd	Share	0.08%	0.00%	0.16%	0.00%	0.02%	0.01%	0.19%	0.09%	0.22%	0.46%	0.18%	0.95%	0.01%	98.77%	100%
	Cost	\$ 5,157	\$ 303	\$ 10,996	\$ 152	\$ 1,213	\$ 379	\$ 13,044	\$ 5,991	\$ 14,788	\$ 30,865	\$ 11,754	\$ 63,398	\$ 607	\$ 6,622,795	\$ 6,705,000

Allocation of Costs For The List of NITM Improvements - Great Park Neighborhoods 2011 GPA/ZC 2011 Costs

Location	PA40	Irvine Northern Sphere Future Development Areas							Orange County Great Park Future Development Areas					PA1	Remainder (a)	Total
		PA5B	PA6	PA8A	PA9A	PA9B	Sub-Total	GP I	GP II	GP III	GP IV	Sub-Total				
557. Ridge Valley & Irvine Blvd	Share	2.05%	0.71%	6.79%	0.10%	2.47%	1.84%	11.90%	13.59%	5.06%	0.38%	0.09%	19.12%	0.85%	66.07%	100%
	Cost	\$ 3,159	\$ 1,089	\$ 10,454	\$ 146	\$ 3,811	\$ 2,832	\$ 18,333	\$ 20,926	\$ 7,796	\$ 585	\$ 139	\$ 29,447	\$ 1,312	\$ 101,750	\$154,000
Roadway Segments																
Jamboree Rd (Portola Pkwy to north Tustin city limits)	Share	0.51%	0.26%	0.75%	0.04%	0.56%	0.66%	2.28%	0.18%	0.13%	0.21%	0.04%	0.57%	3.71%	92.92%	100%
	Cost	\$ 17,989	\$ 9,393	\$ 26,584	\$ 1,506	\$ 19,938	\$ 23,571	\$ 80,993	\$ 6,557	\$ 4,697	\$ 7,532	\$ 1,595	\$ 20,381	\$ 131,680	\$ 3,293,957	\$3,545,000
Jeffrey Rd (future extension from Portola Pkwy to SR-241)	Share	2.47%	1.17%	1.59%	0.19%	2.49%	1.73%	7.17%	0.38%	0.29%	0.40%	0.05%	1.12%	2.67%	86.57%	100%
	Cost	\$ 557,265	\$ 263,295	\$ 357,876	\$ 43,456	\$ 561,099	\$ 391,108	\$ 1,616,835	\$ 85,635	\$ 66,463	\$ 90,747	\$ 10,225	\$ 253,070	\$ 601,999	\$ 19,529,831	\$22,559,000
SR-133 (I-405 to Lake Forest Dr)	Share	0.58%	0.15%	0.56%	0.03%	0.49%	0.34%	1.58%	1.26%	0.12%	0.06%	0.00%	1.45%	0.31%	96.08%	100%
	Cost	\$ 28,870	\$ 7,434	\$ 27,860	\$ 1,299	\$ 24,467	\$ 16,961	\$ 78,022	\$ 62,504	\$ 6,135	\$ 2,887	\$ 217	\$ 71,742	\$ 15,373	\$ 4,759,098	\$4,953,105
Freeway Mainline																
I-5 (Sand Canyon Ave to Jeffrey Rd) (f)	Share	0.77%	0.19%	0.08%	0.05%	0.24%	0.12%	0.68%	0.52%	0.35%	0.93%	0.39%	2.19%	0.42%	95.95%	100%
	Cost	\$ 79,516	\$ 20,083	\$ 8,108	\$ 4,817	\$ 24,900	\$ 12,552	\$ 70,459	\$ 54,108	\$ 36,400	\$ 95,901	\$ 40,505	\$ 226,914	\$ 43,151	\$ 9,939,961	\$10,360,000
I-405 (Sand Canyon Ave to Jeffrey Rd)	Share	0.33%	0.00%	0.25%	0.00%	0.17%	0.11%	0.53%	0.46%	0.32%	0.49%	0.32%	1.59%	0.00%	97.55%	100%
	Cost	\$ 1,564	\$ -	\$ 1,209	\$ -	\$ 793	\$ 502	\$ 2,504	\$ 2,163	\$ 1,505	\$ 2,349	\$ 1,535	\$ 7,552	\$ -	\$ 463,380	\$475,000
Freeway Ramps																
I-5 at Alton Pkwy (southbound off-ramp)	Share	1.71%	0.42%	1.35%	0.09%	1.78%	1.19%	4.83%	1.89%	0.42%	2.76%	1.50%	6.57%	0.65%	86.24%	100%
	Cost	\$ 71,538	\$ 17,684	\$ 56,467	\$ 3,617	\$ 74,753	\$ 50,036	\$ 202,557	\$ 79,375	\$ 17,684	\$ 115,747	\$ 62,696	\$ 275,501	\$ 27,329	\$ 3,615,075	\$4,192,000
I-5 at Bake Pkwy (southbound off-ramp)	Share	0.81%	0.15%	0.16%	0.05%	0.75%	0.31%	1.41%	0.54%	0.00%	0.00%	3.20%	3.75%	0.32%	93.71%	100%
	Cost	\$ 25,058	\$ 4,556	\$ 4,958	\$ 1,474	\$ 23,048	\$ 9,514	\$ 43,550	\$ 16,750	\$ 134	\$ -	\$ 98,893	\$ 115,777	\$ 9,916	\$ 2,894,698	\$3,089,000
I-5 at Culver Drive (southbound off-ramp)	Share	1.36%	0.96%	0.15%	0.04%	3.23%	0.83%	5.22%	0.30%	0.13%	0.01%	0.00%	0.43%	4.58%	88.42%	100%
	Cost	\$ 75,421	\$ 53,293	\$ 8,415	\$ 2,493	\$ 179,826	\$ 46,437	\$ 290,464	\$ 16,518	\$ 7,168	\$ 312	\$ -	\$ 23,998	\$ 254,623	\$ 4,919,495	\$5,564,000
I-5 at El Toro Rd (northbound loop on-ramp)	Share	0.47%	0.11%	0.27%	0.02%	0.33%	0.22%	0.96%	1.34%	0.74%	1.28%	0.74%	4.09%	0.25%	94.23%	100%
	Cost	\$ 1,092	\$ 260	\$ 624	\$ 52	\$ 780	\$ 520	\$ 2,237	\$ 3,121	\$ 1,717	\$ 2,982	\$ 1,717	\$ 9,536	\$ 590	\$ 219,545	\$233,000
I-5 at El Toro Rd (southbound off-ramp)	Share	0.38%	0.09%	0.21%	0.02%	0.27%	0.18%	0.77%	0.81%	0.18%	0.51%	0.27%	1.77%	0.21%	96.88%	100%
	Cost	\$ 7,735	\$ 1,906	\$ 4,140	\$ 381	\$ 5,502	\$ 3,541	\$ 15,470	\$ 16,341	\$ 3,541	\$ 10,295	\$ 5,393	\$ 35,570	\$ 4,140	\$ 1,952,086	\$2,015,000
I-5 at Jamboree Rd (northbound off-ramp)	Share	3.03%	0.04%	0.02%	0.06%	0.70%	0.06%	0.87%	0.47%	0.27%	0.96%	0.41%	2.11%	0.05%	93.95%	100%
	Cost	\$ 148,484	\$ 2,007	\$ 803	\$ 2,809	\$ 34,111	\$ 2,809	\$ 42,539	\$ 23,276	\$ 13,243	\$ 46,953	\$ 20,065	\$ 103,538	\$ 2,408	\$ 4,611,032	\$4,908,000
I-5 at Jamboree Rd (southbound off-ramp)	Share	0.00%	0.01%	0.08%	0.00%	0.35%	0.01%	0.45%	0.00%	0.00%	0.00%	0.00%	0.00%	0.21%	99.35%	100%
	Cost	\$ -	\$ 293	\$ 2,634	\$ -	\$ 11,415	\$ 293	\$ 14,635	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,732	\$ 3,241,633	\$3,263,000
I-5 at Jeffrey Rd (southbound on-ramp)	Share	0.36%	1.50%	0.01%	0.46%	1.23%	0.45%	3.65%	0.42%	0.24%	0.66%	0.56%	1.88%	1.27%	92.85%	100%
	Cost	\$ 589	\$ 2,445	\$ 11	\$ 756	\$ 2,001	\$ 734	\$ 5,947	\$ 678	\$ 389	\$ 1,078	\$ 911	\$ 3,057	\$ 2,068	\$ 151,340	\$163,000
I-5 at Sand Canyon Ave (northbound on-ramp)	Share	8.78%	0.05%	0.16%	0.02%	0.16%	0.06%	0.45%	2.42%	3.22%	6.68%	0.00%	12.32%	0.05%	78.39%	100%
	Cost	\$ 48,130	\$ 301	\$ 859	\$ 129	\$ 859	\$ 344	\$ 2,492	\$ 13,236	\$ 17,662	\$ 36,614	\$ -	\$ 67,512	\$ 301	\$ 429,565	\$548,000
I-405 at Irvine Center Dr (southbound off-ramp)	Share	0.39%	0.13%	0.55%	0.02%	0.64%	0.47%	1.81%	1.30%	0.12%	0.14%	0.23%	1.80%	0.17%	95.83%	100%
	Cost	\$ 23,723	\$ 8,100	\$ 33,559	\$ 1,157	\$ 38,767	\$ 28,352	\$ 109,935	\$ 79,269	\$ 7,522	\$ 8,679	\$ 13,887	\$ 109,357	\$ 10,415	\$ 5,826,570	\$6,080,000
I-405 at Jeffrey Rd (northbound off-ramp)	Share	0.09%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.18%	0.10%	0.35%	0.43%	1.07%	0.00%	98.85%	100%
	Cost	\$ 4,763	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,824	\$ 5,657	\$ 19,054	\$ 23,222	\$ 57,756	\$ -	\$ 5,350,480	\$5,413,000
I-405 at Sand Canyon Ave (northbound direct on-ramp)	Share	2.99%	0.00%	1.05%	0.00%	1.44%	1.02%	3.51%	2.34%	1.82%	2.49%	0.00%	6.65%	0.00%	86.85%	100%
	Cost	\$ 16,829	\$ -	\$ 5,894	\$ -	\$ 8,099	\$ 5,714	\$ 19,708	\$ 13,139	\$ 10,214	\$ 13,994	\$ -	\$ 37,347	\$ -	\$ 488,117	\$562,000
I-405 at Sand Canyon Ave (southbound off-ramp)	Share	1.94%	0.00%	1.58%	0.00%	1.49%	0.78%	3.85%	0.50%	0.45%	1.55%	0.00%	2.50%	0.00%	91.72%	100%
	Cost	\$ 96,206	\$ -	\$ 78,493	\$ -	\$ 73,978	\$ 38,552	\$ 191,023	\$ 25,007	\$ 22,228	\$ 76,757	\$ -	\$ 123,992	\$ -	\$ 4,556,779	\$4,968,000
SR-133 at Barranca Pkwy (southbound loop on-ramp)	Share	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.02%	0.02%	0.00%	99.98%	100%
	Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 56	\$ 56	\$ -	\$ 333,944	\$334,000
Interchanges																
SR-241 at Jeffrey Rd	Share	2.26%	1.04%	1.41%	0.17%	2.21%	1.54%	6.36%	0.45%	0.35%	0.42%	0.14%	1.36%	2.37%	87.65%	100%
	Cost	\$ 411,107	\$ 188,196	\$ 255,800	\$ 31,061	\$ 401,058	\$ 280,467	\$ 1,156,582	\$ 82,221	\$ 63,036	\$ 76,740	\$ 24,666	\$ 246,664	\$ 430,292	\$ 15,936,353	\$18,181,000
Sub-Total Cost (Partially Funded Improvement Locations)		\$ 1,673,670	\$ 596,672	\$ 973,938	\$ 99,238	\$ 1,541,229	\$ 947,815	\$ 4,158,891	\$ 674,919	\$ 415,757	\$ 864,924	\$ 410,463	\$ 2,366,063	\$ 1,566,192	\$ 122,511,197	\$132,276,014

Allocation of Costs For The List of NITM Improvements - Great Park Neighborhoods 2011 GPA/ZC 2011 Costs

Location	PA40	Irvine Northern Sphere Future Development Areas						Orange County Great Park Future Development Areas					PA1	Remainder (a)	Total
		PA5B	PA6	PA8A	PA9A	PA9B	Sub-Total	GP I	GP II	GP III	GP IV	Sub-Total			
NITM PROGRAM ADMINISTRATIVE COSTS AND CALTRANS CONTINGENCY FUND															
Share of Administrative Costs (b)	17.78%	2.94%	7.82%	0.47%	11.70%	7.76%	30.70%	33.70%	10.62%	4.21%	2.04%	50.58%	0.95%	\$ -	100%
NITM Program Establishment Cost	\$ 49,096	\$ 8,123	\$ 21,610	\$ 1,290	\$ 32,308	\$ 21,444	\$ 84,774	\$ 93,069	\$ 29,333	\$ 11,641	\$ 5,645	\$ 139,688	\$ 2,621	\$ -	\$276,179
NITM Program Administration Cost	\$ 431,623	\$ 71,410	\$ 189,979	\$ 11,341	\$ 284,029	\$ 188,522	\$ 745,281	\$ 818,209	\$ 257,881	\$ 102,338	\$ 49,625	\$ 1,228,053	\$ 23,042	\$ -	\$2,428,000
Share of Caltrans Contingency Fund (c)	18.93%	3.50%	6.50%	0.56%	15.09%	6.30%	31.94%	11.12%	4.57%	13.57%	8.47%	37.74%	11.40%	0.00%	100%
Caltrans Contingency Fund	\$ 94,642	\$ 17,478	\$ 32,486	\$ 2,787	\$ 75,447	\$ 31,497	\$ 159,696	\$ 55,590	\$ 22,857	\$ 67,866	\$ 42,366	\$ 188,678	\$ 56,987	\$ -	\$500,000
Sub-Total Cost (Administrative and Caltrans Contingency Fund)	\$ 579,452	\$ 81,678	\$ 238,374	\$ 13,208	\$ 364,463	\$ 239,703	\$ 937,427	\$ 1,137,316	\$ 336,169	\$ 124,960	\$ 57,975	\$ 1,656,419	\$ 30,881	\$ -	\$3,204,179
TOTAL (LIST OF NITM IMPROVEMENTS, NITM PROGRAM ADMINISTRATIVE COSTS, AND CALTRANS CONTINGENCY FUND)															
Total Cost	\$ 29,916,774	\$ 4,935,426	\$ 13,151,183	\$ 784,023	\$ 19,669,881	\$ 13,053,520	\$ 51,594,033	\$ 56,750,797	\$ 17,864,312	\$ 7,080,860	\$ 3,430,951	\$ 85,126,919	\$ 1,597,073	\$ 122,511,197	\$290,745,997
Share of Total Cost	10.29%	1.70%	4.52%	0.27%	6.77%	4.49%	17.75%	19.52%	6.14%	2.44%	1.18%	29.28%	0.55%	42.14%	\$1

(a) Traffic share percentage and allocated cost for existing traffic and future traffic due to future development in areas other than PA40, the Irvine Northern Sphere Area, the Orange County Great Park and PA1.

(b) Percentage of the List of NITM Improvements total cost that is allocated to the Future Development Areas within PA40, the Irvine Northern Sphere Area, the Orange County Great Park and PA1.

(c) Percentage of the total cost of freeway ramp and mainline improvements included in the List of NITM Improvements that is allocated to Future Development Areas in PA40, the Irvine Northern Sphere Area, the Orange County Great Park and PA1. (d) The cost estimate at this intersection includes the City of Irvine's adopted fee for the application of Advanced Transportation Management System (ATMS) technologies.

(e) The cost estimate at this intersection includes a contribution to the City of Irvine Traffic Management Systems Operation Study (TMSOS).

(f) The cost estimate for the I-5 mainline improvements at this location includes the cost to add a second drop lane from I-5 to the southbound off-ramp at Sand Canyon Avenue.

Allocation of Costs based on the GPN 2011 GPA/ZC (2012 Costs)

Location	PA40	Irvine Northern Sphere Future Development Areas							Orange County Great Park Future Development Areas					PA1	Remainder (a)	Total
		PA5B	PA6	PA8A	PA9A	PA9B	Sub-Total	GP I	GP II	GP III	GP IV	Sub-Total				
FULLY FUNDED IMPROVEMENTS IN THE NITM PROGRAM																
Intersections																
34. Red Hill Ave & Irvine Blvd (d)	Share	5.11%	22.37%	13.02%	0.82%	12.15%	24.08%	72.43%	10.98%	9.60%	1.41%	0.47%	22.46%	0.00%	0.00%	100%
	Cost	\$8,743	\$38,282	\$22,282	\$1,401	\$20,796	\$41,210	\$123,970	\$18,801	\$16,425	\$2,419	\$806	\$38,452	\$0	\$0	\$171,165
91. Tustin Ranch Rd & Irvine Blvd (d)	Share	3.84%	20.43%	19.22%	0.76%	11.11%	24.70%	76.21%	9.87%	8.75%	0.99%	0.35%	19.95%	0.00%	0.00%	100%
	Cost	\$6,571	\$34,964	\$32,891	\$1,300	\$19,011	\$42,273	\$130,438	\$16,902	\$14,969	\$1,687	\$597	\$34,156	\$0	\$0	\$171,165
125. Jamboree Rd & Irvine Blvd	Share	4.24%	24.75%	10.72%	0.76%	11.85%	25.06%	73.14%	10.40%	9.50%	1.93%	0.80%	22.62%	0.00%	0.00%	100%
	Cost	\$45,486	\$265,568	\$115,007	\$8,144	\$127,123	\$268,945	\$8,144	\$111,630	\$101,897	\$20,658	\$8,541	\$242,726	\$0	\$0	\$1,073,000
222. Culver Dr & Trabuco Rd	Share	16.82%	14.49%	3.96%	0.80%	36.87%	12.76%	68.88%	6.99%	3.15%	2.80%	1.35%	14.30%	0.00%	0.00%	100%
	Cost	\$536,870	\$462,478	\$126,414	\$25,491	\$1,176,743	\$407,334	\$2,198,460	\$223,175	\$100,403	\$89,478	\$43,178	\$456,235	\$0	\$0	\$3,191,565
223. Culver Dr & I-5 southbound ramps	Share	12.11%	18.36%	4.93%	0.88%	35.25%	15.70%	75.12%	6.03%	3.56%	1.86%	1.32%	12.77%	0.00%	0.00%	100%
	Cost	\$47,919	\$72,651	\$19,515	\$3,478	\$139,505	\$62,120	\$297,269	\$23,863	\$14,105	\$7,342	\$5,217	\$50,527	\$0	\$0	\$395,715
224. Culver Dr & Walnut Ave (d)	Share	12.01%	18.33%	5.44%	1.00%	31.96%	14.83%	71.57%	8.45%	4.83%	2.20%	0.94%	16.42%	0.00%	0.00%	100%
	Cost	\$20,564	\$31,373	\$9,312	\$1,718	\$54,709	\$25,387	\$122,498	\$14,467	\$8,259	\$3,769	\$1,607	\$28,103	\$0	\$0	\$171,165
235. Culver Dr & University Dr	Share	16.89%	5.76%	11.60%	1.16%	17.98%	12.25%	48.75%	11.96%	8.81%	9.17%	4.42%	34.36%	0.00%	0.00%	100%
	Cost	\$735,567	\$250,977	\$505,111	\$50,511	\$782,921	\$533,523	\$2,123,043	\$520,895	\$383,568	\$399,353	\$192,573	\$1,496,390	\$0	\$0	\$4,355,000
249. Yale Ave & Irvine Blvd	Share	4.02%	30.93%	9.56%	0.26%	9.05%	27.32%	77.11%	9.22%	8.78%	0.66%	0.20%	18.87%	0.00%	0.00%	100%
	Cost	\$189,990	\$1,461,589	\$451,643	\$12,083	\$427,894	\$1,291,182	\$3,644,391	\$435,810	\$414,978	\$31,248	\$9,583	\$891,620	\$0	\$0	\$4,726,000
288. Jeffrey Rd & Walnut Ave/ I-5 southbound ramps	Share	25.69%	10.91%	8.33%	3.91%	26.24%	15.66%	65.05%	4.46%	2.96%	1.07%	0.77%	9.26%	0.00%	0.00%	100%
	Cost	\$290,688	\$123,487	\$94,195	\$44,235	\$296,859	\$177,164	\$735,939	\$50,406	\$33,529	\$12,118	\$8,698	\$104,752	\$0	\$0	\$1,131,379
289. Jeffrey Rd & Irvine Center Dr	Share	23.80%	9.51%	8.61%	3.11%	26.15%	15.58%	62.96%	5.38%	4.02%	2.87%	0.98%	13.25%	0.00%	0.00%	100%
	Cost	\$2,777,047	\$1,109,919	\$1,004,598	\$362,772	\$3,051,601	\$1,817,458	\$7,346,348	\$627,424	\$468,992	\$334,866	\$114,323	\$1,545,605	\$0	\$0	\$11,669,000
291. Jeffrey Rd & Alton Pkwy	Share	20.69%	7.95%	9.02%	2.42%	26.01%	16.00%	61.40%	5.91%	4.86%	4.99%	2.16%	17.91%	0.00%	0.00%	100%
	Cost	\$266,514	\$102,436	\$116,184	\$31,124	\$334,956	\$206,080	\$790,779	\$76,147	\$62,549	\$64,211	\$27,800	\$230,707	\$0	\$0	\$1,288,000
302. Sand Canyon Ave & Trabuco Rd	Share	18.89%	1.24%	11.73%	0.30%	30.14%	16.68%	60.09%	10.89%	4.47%	4.64%	1.02%	21.02%	0.00%	0.00%	100%
	Cost	\$78,742	\$5,164	\$48,901	\$1,258	\$125,654	\$69,512	\$250,490	\$45,391	\$18,621	\$19,353	\$4,242	\$87,607	\$0	\$0	\$416,839
303. Sand Canyon Ave & I-5 northbound ramps/Marine Wy	Share	31.10%	1.08%	7.18%	0.22%	15.50%	8.96%	32.94%	10.31%	7.86%	16.42%	1.37%	35.96%	0.00%	0.00%	100%
	Cost	\$1,008,178	\$34,870	\$232,681	\$7,291	\$502,557	\$290,481	\$1,067,881	\$334,228	\$254,977	\$532,355	\$44,381	\$1,165,941	\$0	\$0	\$3,242,000
305. Sand Canyon Ave & I-5 southbound ramps	Share	29.92%	1.24%	8.84%	0.24%	17.15%	10.37%	37.84%	11.99%	8.16%	11.76%	0.33%	32.24%	0.00%	0.00%	100%
	Cost	\$574,681	\$23,733	\$169,858	\$4,637	\$329,533	\$199,229	\$726,990	\$230,418	\$156,673	\$225,963	\$6,274	\$619,328	\$0	\$0	\$1,921,000
306. Sand Canyon Ave & Oak Canyon/Laguna Canyon Rd	Share	26.15%	1.41%	10.51%	0.28%	18.32%	12.31%	42.84%	12.23%	8.65%	9.84%	0.29%	31.01%	0.00%	0.00%	100%
	Cost	\$253,144	\$13,692	\$101,736	\$2,702	\$177,379	\$119,173	\$414,682	\$118,375	\$83,747	\$95,228	\$2,824	\$300,175	\$0	\$0	\$968,000
310. Sand Canyon Ave & Alton Pkwy	Share	21.00%	1.19%	9.69%	0.24%	13.52%	8.29%	32.94%	11.34%	9.31%	19.83%	5.59%	46.06%	0.00%	0.00%	100%
	Cost	\$73,088	\$4,153	\$33,706	\$831	\$47,064	\$28,862	\$114,616	\$39,451	\$32,391	\$69,005	\$19,449	\$160,296	\$0	\$0	\$348,000
311. Sand Canyon Ave & I-405 northbound ramps	Share	22.97%	0.65%	11.88%	0.14%	14.62%	9.00%	36.29%	12.50%	9.90%	1.41%	40.74%	0.00%	0.00%	100%	
	Cost	\$280,903	\$7,937	\$145,283	\$1,725	\$178,757	\$110,084	\$443,786	\$152,875	\$121,127	\$207,054	\$17,255	\$498,310	\$0	\$0	\$1,223,000
321. Laguna Canyon Rd & Old Laguna Canyon Rd	Share	15.90%	4.09%	15.34%	0.72%	13.47%	9.34%	42.97%	34.38%	3.38%	1.55%	1.83%	41.14%	0.00%	0.00%	100%
	Cost	\$318,760	\$82,081	\$307,603	\$14,344	\$270,149	\$187,271	\$861,449	\$689,318	\$67,736	\$31,079	\$36,657	\$824,791	\$0	\$0	\$2,005,000
338. Alton Pkwy & Irvine Blvd (e)	Share	3.19%	1.15%	18.49%	0.17%	4.47%	3.21%	27.50%	26.77%	34.45%	6.48%	1.60%	69.30%	0.00%	0.00%	100%
	Cost	\$89,483	\$32,346	\$518,280	\$4,894	\$125,234	\$90,015	\$770,771	\$750,129	\$965,485	\$181,627	\$44,901	\$1,942,142	\$0	\$0	\$2,802,396
345. Alton Pkwy & I-5 northbound ramps	Share	3.88%	1.51%	4.18%	0.30%	3.89%	2.51%	12.39%	6.98%	11.05%	40.98%	24.72%	83.73%	0.00%	0.00%	100%
	Cost	\$1,125	\$437	\$1,212	\$87	\$1,128	\$729	\$3,593	\$2,024	\$3,204	\$11,884	\$7,169	\$24,282	\$0	\$0	\$29,000
362. Bake Pkwy & Irvine Blvd (e)	Share	2.48%	0.90%	21.74%	0.10%	2.84%	2.39%	27.97%	27.32%	31.99%	4.81%	5.44%	69.56%	0.00%	0.00%	100%
	Cost	\$162,648	\$59,274	\$1,427,796	\$6,639	\$186,358	\$156,958	\$1,837,025	\$1,794,822	\$2,101,151	\$315,813	\$357,542	\$4,569,327	\$0	\$0	\$6,569,000
364. Bake Pkwy & Jeronimo Rd	Share	0.80%	0.50%	22.54%	0.00%	0.99%	1.95%	25.98%	10.82%	18.64%	24.96%	18.80%	73.22%	0.00%	0.00%	100%
	Cost	\$39,332	\$24,490	\$1,113,165	\$0	\$48,979	\$96,474	\$1,283,108	\$534,319	\$920,216	\$1,232,645	\$928,380	\$3,615,560	\$0	\$0	\$4,938,000
368. Bake Pkwy & I-5 southbound ramps	Share	5.49%	1.05%	6.46%	0.27%	4.67%	2.40%	14.85%	7.85%	17.30%	22.54%	31.98%	79.67%	0.00%	0.00%	100%
	Cost	\$160,838	\$30,710	\$189,466	\$7,808	\$136,895	\$70,269	\$435,148	\$230,066	\$506,978	\$660,529	\$937,441	\$2,335,014	\$0	\$0	\$2,931,000
379. Lake Forest Dr & Muirlands Blvd	Share	4.81%	0.14%	2.74%	0.05%	0.96%	0.24%	4.14%	9.00%	4.72%	56.35%	20.98%	91.05%	0.00%	0.00%	100%
	Cost	\$737	\$22	\$420	\$7	\$147	\$37	\$634	\$1,379	\$723	\$8,635	\$3,215	\$13,952	\$0	\$0	\$15,324
383. Lake Forest Dr & Av Carlota/ I-5 southbound ramps (d) (e)	Share	6.50%	1.46%	20.70%	0.36%	6.80%	4.01%	33.33%	15.06%	22.10%	14.45%	8.56%	60.17%	0.00%	0.00%	100%
	Cost	\$77,635	\$17,413	\$247,417	\$4,353	\$81,263	\$47,887	\$398,333	\$179,939	\$264,104	\$172,684	\$102,304	\$719,032	\$0	\$0	\$1,195,000
406. Laguna Canyon Rd & Lake Forest Dr	Share	16.20%	4.09%	15.21%	0.74%	13.74%	9.45%	43.23%	34.11%	2.99%	1.60%	1.88%	40.57%	0.00%	0.00%	100%
	Cost	\$65,856	\$16,630	\$61,865	\$2,993	\$55,878	\$38,416	\$175,783	\$138,697	\$12,140	\$6,486	\$7,650	\$164,973	\$0	\$0	\$406,612
407. Laguna Canyon Rd & Bake Pkwy	Share	14.59%	3.48%	13.28%	0.58%	10.59%	7.17%	35.09%	26.40%	8.38%	9.69%	5.85%	50.32%	0.00%	0.00%	100%
	Cost	\$169,294	\$40,337	\$154,015	\$6,723	\$122,845	\$83,119	\$407,039	\$306,196	\$97,176	\$112,455	\$67,840	\$583,667	\$0	\$0	\$1,160,000

Allocation of Costs based on the GPN 2011 GPA/ZC (2012 Costs)

Location	PA40	Irvine Northern Sphere Future Development Areas							Orange County Great Park Future Development Areas					PA1	Remainder (a)	Total
		PA5B	PA6	PA8A	PA9A	PA9B	Sub-Total	GP I	GP II	GP III	GP IV	Sub-Total				
Interchanges																
SR-133 at Trabuco Rd	Share	19.87%	0.16%	5.08%	0.10%	9.41%	5.79%	20.54%	47.63%	10.24%	1.56%	0.16%	59.59%	0.00%	0.00%	100%
	Cost	\$21,095,639	\$171,975	\$5,388,560	\$103,185	\$9,991,766	\$6,145,251	\$21,800,738	\$50,566,476	\$10,874,573	\$1,656,696	\$166,243	\$63,263,987	\$0	\$0	\$106,160,363
Sub-Total Cost (Fully Funded Improvement)		\$29,376,045	\$4,518,988	\$12,639,117	\$711,734	\$18,813,704	\$12,606,445	\$49,289,988	\$58,233,624	\$18,100,699	\$6,506,640	\$3,166,691	\$86,007,655	\$0	\$0	\$164,673,688
FAIR SHARE FUNDED IMPROVEMENTS IN THE NITM PROGRAM																
Intersections																
123. Jamboree Rd & Tustin Ranch Rd	Share	0.51%	0.26%	0.75%	0.04%	0.56%	0.66%	2.28%	0.18%	0.13%	0.21%	0.04%	0.57%	3.71%	92.92%	100%
	Cost	\$39	\$21	\$58	\$3	\$44	\$52	\$178	\$14	\$10	\$17	\$3	\$45	\$289	\$7,227	\$7,778
228. Culver Dr & Barranca Pkwy	Share	0.44%	0.36%	0.14%	0.05%	0.54%	0.24%	1.32%	0.14%	0.11%	0.14%	0.04%	0.43%	1.93%	95.88%	100%
	Cost	\$3,464	\$2,852	\$1,067	\$407	\$4,230	\$1,882	\$10,439	\$1,106	\$883	\$1,067	\$320	\$3,376	\$15,222	\$755,499	\$788,000
290. Jeffrey Rd & Barranca Pkwy	Share	2.66%	0.99%	1.07%	0.31%	3.23%	1.94%	7.54%	0.71%	0.54%	0.34%	0.06%	1.64%	0.48%	87.68%	100%
	Cost	\$13,011	\$4,865	\$5,244	\$1,495	\$15,776	\$9,471	\$36,850	\$3,463	\$2,616	\$1,655	\$291	\$8,025	\$2,358	\$428,756	\$489,000
293. Jeffrey Rd & I-405 northbound ramps	Share	1.83%	0.78%	0.91%	0.22%	2.47%	1.64%	6.02%	0.57%	0.46%	0.40%	0.16%	0.57%	0.35%	90.20%	100%
	Cost	\$16,839	\$7,120	\$8,380	\$2,001	\$22,659	\$15,085	\$55,245	\$5,262	\$4,236	\$3,703	\$1,481	\$14,682	\$3,235	\$827,999	\$918,000
327. Barranca Pkwy & Technology Dr	Share	0.58%	0.07%	0.63%	0.01%	0.65%	0.44%	1.80%	0.75%	0.68%	2.00%	0.94%	4.37%	0.10%	93.15%	100%
	Cost	\$4,478	\$504	\$4,889	\$112	\$4,982	\$3,377	\$13,864	\$5,766	\$5,225	\$15,432	\$7,203	\$33,625	\$802	\$717,230	\$770,000
344. Alton Pkwy & Technology Dr West	Share	0.14%	0.09%	0.34%	0.02%	0.16%	0.10%	0.70%	0.49%	1.40%	4.31%	2.84%	9.05%	0.12%	90.00%	100%
	Cost	\$22	\$14	\$56	\$3	\$26	\$17	\$115	\$6	\$229	\$705	\$81	\$465	\$19	\$14,724	\$16,360
348. Alton Pkwy & Irvine Center Dr	Share	0.10%	0.01%	0.08%	0.00%	0.11%	0.07%	0.27%	0.13%	0.42%	1.43%	1.21%	3.20%	0.02%	96.41%	100%
	Cost	\$2,590	\$365	\$2,116	\$73	\$2,919	\$1,715	\$7,187	\$3,429	\$11,127	\$37,686	\$31,703	\$83,945	\$657	\$2,532,621	\$2,627,000
358. Irvine Center Dr & Enterprise Dr	Share	0.08%	0.01%	0.08%	0.00%	0.10%	0.06%	0.25%	0.13%	0.07%	0.27%	0.31%	0.79%	0.02%	98.86%	100%
	Cost	\$25	\$4	\$23	\$1	\$29	\$17	\$75	\$39	\$20	\$82	\$94	\$236	\$7	\$29,657	\$30,000
359. Irvine Center Dr & I-405 southbound ramps	Share	0.14%	0.03%	0.16%	0.01%	0.19%	0.13%	0.52%	0.32%	0.04%	0.03%	0.34%	0.74%	0.05%	98.56%	100%
	Cost	\$1,251	\$297	\$1,400	\$50	\$1,685	\$1,127	\$4,559	\$2,862	\$372	\$285	\$2,998	\$6,516	\$446	\$871,228	\$884,000
378. Lake Forest Dr & Jeronimo Rd	Share	0.09%	0.00%	0.18%	0.00%	0.02%	0.02%	0.22%	0.23%	0.31%	1.59%	0.45%	2.58%	0.01%	97.11%	100%
	Cost	\$2,142	\$113	\$4,359	\$38	\$376	\$488	\$5,373	\$5,787	\$7,816	\$39,491	\$11,122	\$64,215	\$225	\$2,418,044	\$2,490,000
380. Lake Forest Dr & Rockfield Blvd	Share	0.15%	0.02%	0.61%	0.01%	0.10%	0.05%	0.79%	0.53%	0.79%	0.63%	0.56%	2.50%	0.05%	96.51%	100%
	Cost	\$44	\$7	\$183	\$2	\$31	\$16	\$238	\$160	\$236	\$188	\$167	\$751	\$14	\$28,952	\$30,000
387. Ridge Route Dr & Rockfield Blvd	Share	0.08%	0.02%	0.45%	0.00%	0.07%	0.04%	0.58%	0.50%	0.67%	0.70%	0.58%	2.45%	0.03%	96.86%	100%
	Cost	\$150	\$29	\$822	\$6	\$118	\$74	\$1,049	\$905	\$1,222	\$1,280	\$1,049	\$4,456	\$54	\$176,290	\$182,000
390. Paseo de Valencia & Avd de la Carlota	Share	0.24%	0.06%	0.13%	0.01%	0.18%	0.12%	0.50%	0.53%	0.10%	0.29%	0.15%	1.08%	0.13%	98.06%	100%
	Cost	\$1,760	\$437	\$919	\$78	\$1,312	\$852	\$3,599	\$3,835	\$729	\$2,119	\$1,110	\$7,793	\$908	\$709,940	\$724,000
396. El Toro Rd & Avd de la Carlota	Share	0.13%	0.03%	0.26%	0.01%	0.09%	0.06%	0.44%	0.32%	0.43%	0.30%	0.19%	1.24%	0.07%	98.12%	100%
	Cost	\$15	\$3	\$31	\$1	\$10	\$7	\$51	\$37	\$49	\$35	\$23	\$144	\$8	\$11,394	\$11,612
420. El Toro Rd & Jeronimo Rd	Share	0.05%	0.01%	0.59%	0.00%	0.01%	0.02%	0.63%	0.30%	0.86%	0.99%	0.28%	2.43%	0.01%	96.88%	100%
	Cost	\$2,862	\$452	\$32,312	\$0	\$603	\$829	\$34,195	\$16,570	\$46,848	\$53,777	\$15,516	\$132,711	\$753	\$5,288,479	\$5,459,000
422. Los Alisos Blvd & Jeronimo Rd	Share	0.05%	0.01%	0.16%	0.00%	0.01%	0.02%	0.19%	0.20%	0.26%	0.94%	0.30%	1.70%	0.01%	98.05%	100%
	Cost	\$990	\$158	\$3,248	\$0	\$198	\$317	\$3,921	\$4,119	\$5,387	\$19,488	\$6,100	\$35,094	\$158	\$2,022,836	\$2,063,000
423. Muirlands Blvd & Los Alisos Blvd	Share	0.05%	0.00%	0.28%	0.00%	0.00%	0.00%	0.28%	0.13%	0.40%	0.94%	0.28%	1.75%	0.00%	97.91%	100%
	Cost	\$2,998	\$94	\$16,395	\$0	\$94	\$0	\$16,583	\$7,682	\$23,422	\$54,714	\$16,021	\$101,839	\$0	\$5,698,580	\$5,820,000
424. Los Alisos Blvd & Rockfield Blvd/Fordview St	Share	0.03%	0.00%	0.08%	0.00%	0.00%	0.00%	0.09%	0.06%	0.19%	0.30%	0.16%	0.71%	0.00%	99.16%	100%
	Cost	\$736	\$61	\$1,778	\$0	\$61	\$61	\$1,962	\$1,288	\$4,170	\$6,622	\$3,372	\$15,452	\$0	\$2,154,850	\$2,173,000
432. Alicia Pkwy & Muirlands Blvd	Share	0.08%	0.00%	0.16%	0.00%	0.02%	0.01%	0.19%	0.09%	0.22%	0.46%	0.18%	0.95%	0.01%	98.77%	100%
	Cost	\$5,157	\$303	\$10,996	\$152	\$1,213	\$379	\$13,044	\$5,991	\$14,788	\$30,865	\$11,754	\$63,398	\$607	\$6,622,795	\$6,705,000
557. Ridge Valley & Irvine Blvd	Share	2.05%	0.71%	6.79%	0.10%	2.47%	1.84%	11.90%	13.59%	5.06%	0.38%	0.09%	19.12%	0.85%	66.07%	100%
	Cost	\$3,426	\$1,180	\$11,337	\$159	\$4,133	\$3,071	\$19,880	\$22,693	\$8,454	\$635	\$151	\$31,932	\$1,423	\$110,339	\$167,000
Roadway Segments																
Jamboree Rd (Portola Pkwy to north Tustin city limits)	Share	0.51%	0.26%	0.75%	0.04%	0.56%	0.66%	2.28%	0.18%	0.13%	0.21%	0.04%	0.57%	3.71%	92.92%	100%
	Cost	\$19,567	\$10,217	\$28,916	\$1,639	\$21,687	\$25,639	\$88,099	\$7,133	\$5,109	\$8,193	\$1,735	\$22,169	\$143,232	\$3,582,933	\$3,856,000
Jeffrey Rd (future extension from Portola Pkwy to SR-241)	Share	2.47%	1.17%	1.59%	0.19%	1.73%	1.59%	7.17%	0.38%	0.29%	0.05%	0.40%	1.12%	2.67%	86.57%	100%
	Cost	\$606,299	\$286,463	\$389,367	\$47,280	\$610,471	\$425,522	\$1,759,103	\$93,170	\$72,311	\$98,732	\$11,125	\$275,338	\$654,970	\$21,248,290	\$24,544,000
SR-133 (I-405 to Lake Forest Dr)	Share	0.58%	0.15%	0.56%	0.03%	0.49%	0.34%	1.58%	1.26%	0.12%	0.06%	0.00%	1.45%	0.31%	96.08%	100%
	Cost	\$28,870	\$7,434	\$27,860	\$1,299	\$24,467	\$16,961	\$78,022	\$62,504	\$6,135	\$2,887	\$217	\$71,742	\$15,373	\$4,759,098	\$4,953,105
Freeway Mainline																
I-5 (Sand Canyon Ave to Jeffrey Rd) (f)	Share	0.77%	0.19%	0.08%	0.05%	0.24%	0.12%	0.68%	0.52%	0.35%	0.93%	0.39%	2.19%	0.42%	95.95%	100%
	Cost	\$86,509	\$21,849	\$8,821	\$5,241	\$27,089	\$13,655	\$76,655	\$58,866	\$39,601	\$104,334	\$44,066	\$246,867	\$46,945	\$10,814,025	\$11,271,000

Allocation of Costs based on the GPN 2011 GPA/ZC (2012 Costs)

Location	PA40	Irvine Northern Sphere Future Development Areas							Orange County Great Park Future Development Areas					PA1	Remainder (a)	Total
		PA5B	PA6	PA8A	PA9A	PA9B	Sub-Total	GP I	GP II	GP III	GP IV	Sub-Total				
I-405 (Sand Canyon Ave to Jeffrey Rd)	Share	0.33%	0.00%	0.25%	0.00%	0.17%	0.11%	0.53%	0.46%	0.32%	0.49%	0.32%	1.59%	0.00%	97.55%	100%
	Cost	\$1,702	\$0	\$1,316	\$0	\$863	\$546	\$2,725	\$2,354	\$1,638	\$2,557	\$1,671	\$8,220	\$0	\$504,353	\$517,000
Freeway Ramps																
I-5 at Alton Pkwy (southbound off-ramp)	Share	1.71%	0.42%	1.35%	0.09%	1.78%	1.19%	4.83%	1.89%	0.42%	2.76%	1.50%	6.57%	0.65%	86.24%	100%
	Cost	\$77,869	\$19,249	\$61,464	\$3,937	\$81,369	\$54,465	\$220,483	\$86,400	\$19,249	\$125,991	\$68,245	\$299,884	\$29,748	\$3,935,016	\$4,563,000
I-5 at Bake Pkwy (southbound off-ramp)	Share	0.81%	0.15%	0.16%	0.05%	0.75%	0.31%	1.41%	0.54%	0.00%	0.00%	3.20%	3.75%	0.32%	93.71%	100%
	Cost	\$27,273	\$4,959	\$5,396	\$1,604	\$25,085	\$10,355	\$47,399	\$18,231	\$146	\$0	\$107,633	\$126,009	\$10,792	\$3,150,526	\$3,362,000
I-5 at Culver Drive (southbound off-ramp)	Share	1.36%	0.96%	0.15%	0.04%	3.23%	0.83%	5.22%	0.30%	0.13%	0.01%	0.00%	0.43%	4.58%	88.42%	100%
	Cost	\$82,049	\$57,977	\$9,154	\$2,712	\$195,630	\$50,518	\$315,991	\$17,969	\$7,798	\$339	\$0	\$26,107	\$277,001	\$5,351,852	\$6,053,000
I-5 at El Toro Rd (northbound loop on-ramp)	Share	0.47%	0.11%	0.27%	0.02%	0.33%	0.22%	0.96%	1.34%	0.74%	1.28%	0.74%	4.09%	0.25%	94.23%	100%
	Cost	\$1,191	\$284	\$680	\$57	\$851	\$567	\$2,438	\$3,402	\$1,871	\$3,251	\$1,871	\$10,396	\$643	\$239,332	\$254,000
I-5 at El Toro Rd (southbound off-ramp)	Share	0.38%	0.09%	0.21%	0.02%	0.27%	0.18%	0.77%	0.81%	0.18%	0.51%	0.27%	1.77%	0.21%	96.88%	100%
	Cost	\$8,430	\$2,078	\$4,512	\$416	\$5,996	\$3,859	\$16,859	\$17,809	\$3,859	\$11,220	\$5,877	\$38,765	\$4,512	\$2,127,434	\$2,196,000
I-5 at Jamboree Rd (northbound off-ramp)	Share	3.03%	0.04%	0.02%	0.06%	0.70%	0.06%	0.87%	0.47%	0.27%	0.96%	0.41%	2.11%	0.05%	93.95%	100%
	Cost	\$161,614	\$2,184	\$874	\$3,058	\$37,128	\$3,058	\$46,300	\$25,334	\$14,414	\$51,105	\$21,840	\$112,693	\$2,621	\$5,018,772	\$5,342,000
I-5 at Jamboree Rd (southbound off-ramp)	Share	0.00%	0.01%	0.08%	0.00%	0.35%	0.01%	0.45%	0.00%	0.00%	0.00%	0.00%	0.00%	0.21%	99.35%	100%
	Cost	\$0	\$318	\$2,866	\$0	\$12,419	\$318	\$15,922	\$0	\$0	\$0	\$0	\$0	\$7,324	\$3,526,754	\$3,550,000
I-5 at Jeffrey Rd (southbound on-ramp)	Share	0.36%	1.50%	0.45%	0.01%	1.23%	0.45%	3.65%	0.42%	0.24%	0.66%	0.56%	1.88%	1.27%	92.85%	100%
	Cost	\$636	\$2,640	\$12	\$816	\$2,160	\$792	\$6,421	\$732	\$420	\$1,164	\$984	\$3,301	\$2,232	\$163,410	\$176,000
I-5 at Sand Canyon Ave (northbound on-ramp)	Share	8.78%	0.05%	0.16%	0.02%	0.16%	0.06%	0.45%	2.42%	3.22%	6.68%	0.00%	12.32%	0.05%	78.39%	100%
	Cost	\$52,258	\$327	\$933	\$140	\$933	\$373	\$2,706	\$14,371	\$19,177	\$39,754	\$0	\$73,302	\$327	\$466,407	\$595,000
I-405 at Irvine Center Dr (southbound off-ramp)	Share	0.39%	0.13%	0.55%	0.02%	0.64%	0.47%	1.81%	1.30%	0.12%	0.14%	0.23%	1.80%	0.17%	95.83%	100%
	Cost	\$25,803	\$8,811	\$36,501	\$1,259	\$42,165	\$30,837	\$119,573	\$86,218	\$8,181	\$9,440	\$15,104	\$118,943	\$11,328	\$6,337,353	\$6,613,000
I-405 at Jeffrey Rd (northbound off-ramp)	Share	0.09%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.18%	0.10%	0.35%	0.00%	1.07%	0.00%	98.85%	100%
	Cost	\$5,185	\$0	\$0	\$0	\$0	\$0	\$0	\$10,694	\$6,157	\$20,740	\$25,276	\$62,867	\$0	\$5,823,948	\$5,892,000
I-405 at Sand Canyon Ave (northbound direct on-ramp)	Share	2.99%	0.00%	1.05%	0.00%	1.44%	1.02%	3.51%	2.34%	1.82%	2.49%	0.00%	6.65%	0.00%	86.85%	100%
	Cost	\$18,356	\$0	\$6,429	\$0	\$8,834	\$6,233	\$21,497	\$14,331	\$11,141	\$15,264	\$0	\$40,736	\$0	\$532,412	\$613,000
I-405 at Sand Canyon Ave (southbound off-ramp)	Share	1.94%	0.00%	1.58%	0.00%	1.49%	0.78%	3.85%	0.50%	0.45%	1.55%	0.00%	2.50%	0.00%	91.72%	100%
	Cost	\$104,630	\$0	\$85,366	\$0	\$80,456	\$41,928	\$207,750	\$27,196	\$24,174	\$83,478	\$0	\$134,848	\$0	\$4,955,772	\$5,403,000
SR-133 at Barranca Pkwy (southbound loop on-ramp)	Share	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.02%	0.02%	0.00%	99.98%	100%
	Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$61	\$61	\$0	\$363,939	\$364,000
Interchanges																
SR-241 at Jeffrey Rd	Share	2.26%	1.04%	1.41%	0.17%	2.21%	1.54%	6.36%	0.45%	0.35%	0.42%	0.14%	1.36%	2.37%	87.65%	100%
	Cost	\$447,264	\$204,748	\$278,298	\$33,793	\$436,331	\$305,133	\$1,258,303	\$89,453	\$68,580	\$83,489	\$26,836	\$268,358	\$468,136	\$17,337,939	\$19,780,000
Sub-Total Cost (Partially Funded Improvement)		\$1,817,504	\$648,415	\$1,054,378	\$107,831	\$1,674,434	\$1,029,596	\$4,514,654	\$727,257	\$447,798	\$931,782	\$443,485	\$2,550,321	\$1,702,372	\$131,667,004	\$142,251,855
NITM PROGRAM ADMINISTRATIVE COSTS AND CALTRANS CONTINGENCY FUND																
Share of Administrative Costs (b)		17.80%	2.95%	7.81%	0.47%	11.69%	7.78%	30.70%	33.64%	10.58%	4.24%	2.06%	50.53%	0.97%	0	100%
NITM Program Establishment Cost		\$49,156	\$8,143	\$21,579	\$1,292	\$32,286	\$21,488	\$84,787	\$92,913	\$29,229	\$11,722	\$5,689	\$139,553	\$2,683	\$0	\$276,179
NITM Program Administration Cost		\$432,150	\$71,588	\$189,707	\$11,354	\$283,839	\$188,911	\$745,400	\$816,833	\$256,968	\$103,051	\$50,015	\$1,226,866	\$23,584	\$0	\$2,428,000
Share of Caltrans Contingency Fund (c)		18.93%	3.50%	6.50%	0.56%	15.09%	6.30%	31.94%	11.12%	4.57%	13.57%	8.48%	37.74%	11.40%	0	100%
Caltrans Contingency Fund		\$94,637	\$17,475	\$32,486	\$2,786	\$75,446	\$31,498	\$159,690	\$55,596	\$22,856	\$67,866	\$42,377	\$188,694	\$56,981	\$0	\$500,000
Sub-Total Cost (Administrative and Caltrans)		\$579,452	\$81,678	\$238,374	\$13,208	\$364,463	\$239,703	\$937,427	\$1,137,316	\$336,169	\$124,960	\$57,975	\$1,656,419	\$30,881	\$0	\$3,204,179
TOTAL (LIST OF NITM IMPROVEMENTS, NITM PROGRAM ADMINISTRATIVE COSTS, AND CALTRANS CONTINGENCY FUND)																
Total Cost		\$31,773,001	\$5,249,082	\$13,931,869	\$832,773	\$20,852,601	\$13,875,744	\$54,742,069	\$60,098,197	\$18,884,666	\$7,563,382	\$3,668,151	\$90,214,395	\$1,733,253	\$131,667,004	\$310,129,722
Share of Total Cost		10.25%	1.69%	4.49%	0.27%	6.72%	4.47%	17.65%	19.38%	6.09%	2.44%	1.18%	29.09%	0.56%	42.46%	100.00%

- (a) Traffic share percentage and allocated cost for existing traffic and future traffic due to future development in areas other than PA40, the Irvine Northern Sphere Area, the Orange County Great Park and PA1.
- (b) Percentage of the List of NITM Improvements total cost that is allocated to the Future Development Areas within PA40, the Irvine Northern Sphere Area, the Orange County Great Park and PA1.
- (c) Percentage of the total cost of freeway ramp and mainline improvements included in the List of NITM Improvements that is allocated to Future Development Areas in PA40, the Irvine Northern Sphere Area, the Orange County Great Park and PA1. (d) The cost estimate at this intersection includes the City of Irvine's adopted fee for the application of Advanced Transportation Management System (ATMS) technologies.
- (e) The cost estimate at this intersection includes a contribution to the City of Irvine Traffic Management Systems Operation Study (TMSOS).
- (f) The cost estimate for the I-5 mainline improvements at this location includes the cost to add a second drop lane from I-5 to the southbound off-ramp at Sand Canyon Avenue.

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Allocation of Costs Based on PA 40 GPA/ZC (2012 Costs)

Location	PA40	Irvine Northern Sphere Future Development Areas						Orange County Great Park Future Development Areas					PA1	Remainder (a)	Total	
		PA5B	PA6	PA8A	PA9A	PA9B	Sub-Total	GP I	GP II	GP III	GP IV	Sub-Total				
FULLY FUNDED IMPROVEMENTS IN THE NITM PROGRAM																
Intersections																
34. Red Hill Ave & Irvine Blvd (d)	Share	7.28%	18.87%	13.58%	0.69%	10.42%	19.87%	63.42%	15.56%	12.36%	0.95%	0.41%	29.29%	0.00%	0.00%	100%
	Cost	\$12,460	\$32,299	\$23,244	\$1,181	\$17,836	\$34,011	\$108,553	\$26,633	\$21,156	\$1,626	\$702	\$50,134	\$0	\$0	\$171,165
91. Tustin Ranch Rd & Irvine Blvd (d)	Share	6.35%	17.90%	17.36%	0.66%	9.84%	21.33%	67.10%	14.24%	11.41%	0.61%	0.28%	26.54%	0.00%	0.00%	100%
	Cost	\$10,869	\$30,639	\$29,714	\$1,130	\$16,842	\$36,509	\$114,852	\$24,374	\$19,530	\$1,044	\$479	\$45,427	\$0	\$0	\$171,165
125. Jamboree Rd & Irvine Blvd	Share	6.74%	21.39%	11.84%	0.67%	10.39%	21.21%	65.51%	14.05%	11.48%	1.46%	0.77%	27.75%	0.00%	0.00%	100%
	Cost	\$72,320	\$229,515	\$127,043	\$7,189	\$111,485	\$227,583	\$702,922	\$150,757	\$123,180	\$15,666	\$8,262	\$297,758	\$0	\$0	\$1,073,000
222. Culver Dr & Trabuco Rd	Share	32.20%	11.67%	4.95%	0.67%	28.68%	10.12%	56.10%	5.89%	2.69%	1.83%	1.30%	11.70%	0.00%	0.00%	100%
	Cost	\$1,027,684	\$372,456	\$157,982	\$21,383	\$915,341	\$322,986	\$1,790,468	\$187,983	\$85,853	\$58,406	\$41,490	\$373,413	\$0	\$0	\$3,191,565
223. Culver Dr & I-5 southbound ramps	Share	23.00%	15.30%	6.77%	0.78%	28.93%	12.87%	64.65%	5.61%	3.86%	1.43%	1.43%	12.34%	0.00%	0.00%	100%
	Cost	\$91,014	\$60,545	\$26,790	\$3,087	\$114,480	\$50,928	\$255,830	\$22,200	\$15,274	\$5,659	\$5,659	\$48,831	\$0	\$0	\$395,715
224. Culver Dr & Walnut Ave (d)	Share	22.53%	15.92%	5.97%	0.87%	28.10%	12.67%	63.53%	7.71%	3.68%	1.57%	0.99%	13.95%	0.00%	0.00%	100%
	Cost	\$38,563	\$27,250	\$10,219	\$1,490	\$48,097	\$21,687	\$108,741	\$13,197	\$6,298	\$2,688	\$1,694	\$23,878	\$0	\$0	\$171,165
235. Culver Dr & University Dr	Share	23.77%	5.49%	11.01%	1.10%	16.61%	11.26%	45.47%	11.26%	6.24%	8.87%	4.38%	30.76%	0.00%	0.00%	100%
	Cost	\$1,035,184	\$239,089	\$479,486	\$47,905	\$723,366	\$490,373	\$1,980,219	\$490,373	\$271,752	\$386,289	\$190,749	\$1,339,598	\$0	\$0	\$4,355,000
249. Yale Ave & Irvine Blvd	Share	6.06%	27.03%	11.87%	0.23%	7.95%	23.75%	70.83%	11.67%	10.79%	0.47%	0.18%	23.11%	0.00%	0.00%	100%
	Cost	\$286,395	\$1,277,438	\$560,976	\$10,870	\$375,717	\$1,122,425	\$3,347,426	\$551,524	\$509,936	\$22,212	\$8,507	\$1,092,178	\$0	\$0	\$4,726,000
288. Jeffrey Rd & Walnut Ave/ I-5 southbound ramps	Share	37.32%	9.52%	6.57%	3.38%	21.22%	12.76%	53.45%	4.35%	3.19%	0.85%	0.83%	9.23%	0.00%	0.00%	100%
	Cost	\$422,231	\$107,707	\$74,332	\$38,241	\$240,079	\$144,364	\$604,722	\$49,215	\$36,091	\$9,617	\$9,390	\$104,426	\$0	\$0	\$1,131,379
289. Jeffrey Rd & Irvine Center Dr	Share	32.87%	8.89%	7.29%	2.89%	22.44%	13.55%	55.05%	5.33%	3.71%	2.21%	0.83%	12.08%	0.00%	0.00%	100%
	Cost	\$3,835,601	\$1,037,374	\$850,670	\$337,234	\$2,618,523	\$1,581,150	\$6,423,785	\$621,957	\$432,920	\$257,885	\$96,852	\$1,409,615	\$0	\$0	\$11,669,000
291. Jeffrey Rd & Alton Pkwy	Share	29.41%	7.35%	7.68%	2.21%	22.87%	14.02%	54.13%	6.12%	4.20%	4.24%	1.89%	16.46%	0.00%	0.00%	100%
	Cost	\$378,801	\$94,668	\$98,918	\$28,465	\$294,566	\$180,578	\$697,194	\$78,826	\$54,096	\$54,611	\$24,343	\$212,005	\$0	\$0	\$1,288,000
302. Sand Canyon Ave & Trabuco Rd	Share	30.08%	1.19%	9.71%	0.25%	25.67%	14.65%	51.48%	11.25%	2.91%	3.62%	0.64%	18.43%	0.00%	0.00%	100%
	Cost	\$125,385	\$4,960	\$40,475	\$1,042	\$107,003	\$61,067	\$214,589	\$46,894	\$12,130	\$15,090	\$2,668	\$76,823	\$0	\$0	\$416,839
303. Sand Canyon Ave & I-5 northbound ramps/Marine Wy	Share	40.61%	1.04%	6.54%	0.20%	15.63%	8.99%	32.40%	9.51%	2.14%	14.28%	1.07%	27.00%	0.00%	0.00%	100%
	Cost	\$1,316,576	\$33,717	\$212,027	\$6,484	\$506,724	\$291,456	\$1,050,408	\$308,314	\$69,379	\$462,957	\$34,690	\$875,340	\$0	\$0	\$3,242,000
305. Sand Canyon Ave & I-5 southbound ramps	Share	39.58%	1.18%	8.03%	0.23%	17.36%	10.41%	37.22%	10.41%	2.94%	9.31%	0.54%	23.20%	0.00%	0.00%	100%
	Cost	\$760,332	\$22,668	\$154,256	\$4,418	\$333,486	\$199,976	\$714,996	\$199,976	\$56,477	\$178,845	\$10,373	\$445,672	\$0	\$0	\$1,921,000
306. Sand Canyon Ave & Oak Canyon/Laguna Canyon Rd	Share	32.77%	1.40%	10.00%	0.28%	19.12%	12.72%	43.52%	11.92%	3.80%	7.66%	0.32%	23.70%	0.00%	0.00%	100%
	Cost	\$317,213	\$13,552	\$96,800	\$2,710	\$185,082	\$123,130	\$421,274	\$115,386	\$36,784	\$74,148	\$3,098	\$229,416	\$0	\$0	\$968,000
310. Sand Canyon Ave & Alton Pkwy	Share	28.19%	1.31%	8.94%	0.26%	15.07%	9.17%	34.75%	11.28%	2.73%	17.46%	5.58%	37.06%	0.00%	0.00%	100%
	Cost	\$98,101	\$4,559	\$31,111	\$905	\$52,444	\$31,912	\$120,930	\$39,255	\$9,500	\$60,761	\$19,419	\$128,969	\$0	\$0	\$348,000
311. Sand Canyon Ave & I-405 northbound ramps	Share	32.29%	0.72%	10.55%	0.15%	15.73%	9.92%	37.06%	12.19%	2.04%	13.30%	3.12%	30.65%	0.00%	0.00%	100%
	Cost	\$394,907	\$8,806	\$129,027	\$1,835	\$192,378	\$121,322	\$453,244	\$149,084	\$24,949	\$162,659	\$38,158	\$374,850	\$0	\$0	\$1,223,000
321. Laguna Canyon Rd & Old Laguna Canyon Rd	Share	25.42%	3.56%	10.67%	0.62%	11.26%	7.90%	34.01%	33.39%	5.20%	0.24%	1.74%	40.57%	0.00%	0.00%	100%
	Cost	\$509,671	\$71,378	\$213,934	\$12,431	\$225,763	\$158,395	\$681,901	\$669,470	\$104,260	\$4,812	\$34,887	\$813,429	\$0	\$0	\$2,005,000
338. Alton Pkwy & Irvine Blvd (e)	Share	4.85%	1.10%	22.68%	0.17%	4.22%	2.92%	31.10%	24.22%	30.34%	7.08%	2.41%	64.05%	0.00%	0.00%	100%
	Cost	\$135,916	\$30,826	\$635,583	\$4,764	\$118,261	\$81,830	\$871,545	\$678,740	\$850,247	\$198,410	\$67,538	\$1,794,935	\$0	\$0	\$2,802,396
345. Alton Pkwy & I-5 northbound ramps	Share	8.10%	1.62%	5.33%	0.36%	4.85%	2.83%	14.98%	9.07%	6.70%	39.17%	21.98%	76.92%	0.00%	0.00%	100%
	Cost	\$2,349	\$470	\$1,546	\$104	\$1,407	\$821	\$4,344	\$2,630	\$1,943	\$11,359	\$6,374	\$22,307	\$0	\$0	\$29,000
362. Bake Pkwy & Irvine Blvd (e)	Share	3.91%	0.85%	25.65%	0.10%	2.57%	2.04%	31.20%	24.44%	29.22%	5.34%	5.90%	64.90%	0.00%	0.00%	100%
	Cost	\$256,847	\$55,837	\$1,684,949	\$6,569	\$168,824	\$134,008	\$2,049,528	\$1,605,464	\$1,919,462	\$350,785	\$387,571	\$4,263,281	\$0	\$0	\$6,569,000

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Location		Irvine Northern Sphere Future Development Areas							Orange County Great Park Future Development Areas					PA1	Remainder (a)	Total
		PA40	PA5B	PA6	PA8A	PA9A	PA9B	Sub-Total	GP I	GP II	GP III	GP IV	Sub-Total			
364. Bake Pkwy & Jeronimo Rd	Share	0.99%	0.31%	21.51%	0.01%	0.54%	1.12%	23.50%	12.04%	22.28%	23.41%	17.78%	75.51%	0.00%	0.00%	100%
	Cost	\$48,886	\$15,308	\$1,062,164	\$494	\$26,665	\$55,305	\$1,160,430	\$594,535	\$1,100,187	\$1,155,986	\$877,977	\$3,728,684	\$0	\$0	\$4,938,000
368. Bake Pkwy & I-5 southbound ramps	Share	6.59%	1.01%	7.07%	0.26%	4.42%	2.38%	15.14%	9.10%	7.16%	25.40%	36.62%	78.28%	0.00%	0.00%	100%
	Cost	\$193,153	\$29,603	\$207,222	\$7,621	\$129,550	\$69,758	\$443,753	\$266,721	\$209,860	\$744,474	\$1,073,332	\$2,294,387	\$0	\$0	\$2,931,000
379. Lake Forest Dr & Muirlands Blvd	Share	6.21%	0.18%	2.53%	0.09%	1.01%	0.23%	4.05%	15.13%	4.28%	48.32%	22.02%	89.75%	0.00%	0.00%	100%
	Cost	\$952	\$28	\$388	\$14	\$155	\$35	\$621	\$2,319	\$656	\$7,405	\$3,374	\$13,753	\$0	\$0	\$15,324
383. Lake Forest Dr & Av Carlota/ I-5 southbound ramps (d) (e)	Share	8.24%	1.28%	20.37%	0.27%	5.69%	3.46%	31.06%	16.91%	21.70%	14.36%	7.71%	60.69%	0.00%	0.00%	100%
	Cost	\$98,468	\$15,296	\$243,421	\$3,226	\$67,995	\$41,347	\$371,167	\$202,075	\$259,315	\$171,602	\$92,135	\$725,245	\$0	\$0	\$1,195,000
406. Laguna Canyon Rd & Lake Forest Dr	Share	25.97%	3.60%	10.51%	0.64%	11.69%	8.12%	34.56%	33.45%	4.88%	0.11%	1.03%	39.47%	0.00%	0.00%	100%
	Cost	\$105,597	\$14,638	\$42,735	\$2,603	\$47,533	\$33,016	\$140,525	\$136,011	\$19,843	\$448	\$4,188	\$160,490	\$0	\$0	\$406,612
407. Laguna Canyon Rd & Bake Pkwy	Share	25.48%	2.99%	10.07%	0.51%	9.02%	6.21%	28.79%	26.95%	6.44%	7.59%	4.74%	45.72%	0.00%	0.00%	100%
	Cost	\$295,568	\$34,684	\$116,812	\$5,916	\$104,632	\$72,036	\$333,964	\$312,620	\$74,704	\$88,044	\$54,984	\$530,352	\$0	\$0	\$1,160,000
Interchanges																
SR-133 at Trabuco Rd	Share	28.72%	0.30%	2.95%	0.07%	7.52%	5.08%	15.92%	48.70%	4.90%	1.08%	0.67%	55.36%	0.00%	0.00%	100%
	Cost	\$30,489,256	\$318,481	\$3,131,731	\$74,312	\$7,983,260	\$5,392,947	\$16,900,730	\$51,700,097	\$5,201,858	\$1,146,532	\$711,274	\$58,770,377	\$0	\$0	\$106,160,363
Sub-Total Cost (Fully Funded)		\$42,360,301	\$4,183,787	\$10,443,553	\$633,622	\$15,727,494	\$11,080,954	\$42,068,661	\$59,246,630	\$11,527,640	\$5,650,021	\$3,810,166	\$80,245,574	\$0	\$0	\$164,673,688
FAIR SHARE FUNDED IMPROVEMENTS IN THE NITM PROGRAM																
Intersections																
123. Jamboree Rd & Tustin Ranch Rd	Share	0.51%	0.26%	0.66%	0.04%	0.54%	0.61%	2.12%	0.23%	0.10%	0.18%	0.05%	0.56%	3.60%	92.81%	100%
	Cost	\$40	\$20	\$52	\$3	\$42	\$48	\$165	\$18	\$8	\$14	\$4	\$44	\$280	\$7,218	\$7,778
228. Culver Dr & Barranca Pkwy	Share	0.45%	0.35%	0.12%	0.05%	0.53%	0.22%	1.27%	0.12%	0.06%	0.14%	0.04%	0.36%	1.91%	95.92%	100%
	Cost	\$3,550	\$2,753	\$957	\$411	\$4,150	\$1,748	\$10,020	\$976	\$440	\$1,094	\$351	\$2,861	\$15,059	\$755,882	\$788,000
290. Jeffrey Rd & Barranca Pkwy	Share	2.65%	0.96%	0.95%	0.29%	2.93%	1.77%	6.91%	0.74%	0.49%	0.28%	0.07%	1.58%	0.45%	87.19%	100%
	Cost	\$12,964	\$4,717	\$4,629	\$1,438	\$14,343	\$8,671	\$33,799	\$3,640	\$2,389	\$1,373	\$341	\$7,743	\$2,224	\$426,355	\$489,000
293. Jeffrey Rd & I-405 northbound ramps	Share	1.83%	0.74%	0.81%	0.21%	2.24%	1.49%	5.49%	0.61%	0.43%	0.36%	0.19%	1.59%	0.32%	89.83%	100%
	Cost	\$16,833	\$6,810	\$7,471	\$1,903	\$20,534	\$13,711	\$50,429	\$5,554	\$3,962	\$3,328	\$1,761	\$14,604	\$2,965	\$824,678	\$918,000
327. Barranca Pkwy & Technology Dr	Share	0.61%	0.08%	0.62%	0.02%	0.65%	0.45%	1.82%	0.73%	0.40%	1.99%	0.84%	3.95%	0.11%	93.36%	100%
	Cost	\$4,711	\$592	\$4,809	\$134	\$5,038	\$3,454	\$14,026	\$5,591	\$3,053	\$15,324	\$6,431	\$30,399	\$820	\$718,839	\$770,000
344. Alton Pkwy & Technology Dr West	Share	0.24%	0.08%	0.37%	0.02%	0.20%	0.10%	0.77%	0.65%	0.75%	3.75%	2.36%	7.51%	0.13%	91.19%	100%
	Cost	\$39	\$13	\$60	\$3	\$32	\$17	\$126	\$107	\$122	\$614	\$386	\$1,229	\$21	\$14,918	\$16,360
348. Alton Pkwy & Irvine Center Dr	Share	0.12%	0.02%	0.06%	0.00%	0.14%	0.08%	0.30%	0.13%	0.18%	1.14%	1.01%	2.46%	0.03%	97.08%	100%
	Cost	\$3,248	\$443	\$1,659	\$73	\$3,577	\$2,028	\$7,781	\$3,319	\$4,831	\$29,871	\$26,551	\$64,573	\$737	\$2,550,221	\$2,627,000
358. Irvine Center Dr & Enterprise Dr	Share	0.11%	0.02%	0.06%	0.00%	0.12%	0.07%	0.27%	0.12%	0.03%	0.05%	0.33%	0.53%	0.03%	99.05%	100%
	Cost	\$32	\$5	\$18	\$1	\$37	\$21	\$81	\$37	\$8	\$16	\$98	\$159	\$9	\$29,716	\$30,000
359. Irvine Center Dr & I-405 southbound ramps	Share	0.17%	0.03%	0.12%	0.01%	0.21%	0.14%	0.50%	0.31%	0.05%	0.02%	0.37%	0.74%	0.05%	98.52%	100%
	Cost	\$1,466	\$307	\$1,042	\$61	\$1,840	\$1,202	\$4,453	\$2,699	\$417	\$147	\$3,275	\$6,538	\$466	\$870,924	\$884,000
378. Lake Forest Dr & Jeronimo Rd	Share	0.08%	0.00%	0.18%	0.00%	0.01%	0.02%	0.21%	0.51%	0.31%	1.67%	0.46%	2.96%	0.01%	96.68%	100%
	Cost	\$2,088	\$112	\$4,370	\$38	\$336	\$485	\$5,341	\$12,809	\$7,656	\$41,604	\$11,578	\$73,647	\$261	\$2,407,353	\$2,490,000
380. Lake Forest Dr & Rockfield Blvd	Share	0.14%	0.02%	0.67%	0.01%	0.09%	0.05%	0.84%	0.59%	0.69%	0.68%	0.55%	2.51%	0.04%	96.40%	100%
	Cost	\$41	\$7	\$201	\$2	\$28	\$15	\$252	\$176	\$208	\$205	\$164	\$752	\$13	\$28,919	\$30,000
387. Ridge Route Dr & Rockfield Blvd	Share	0.08%	0.02%	0.48%	0.00%	0.06%	0.04%	0.60%	0.52%	0.50%	0.69%	0.53%	2.24%	0.03%	97.02%	100%
	Cost	\$138	\$29	\$868	\$7	\$116	\$77	\$1,096	\$947	\$912	\$1,259	\$960	\$4,080	\$58	\$176,583	\$182,000
390. Paseo de Valencia & Avd de la Carlota	Share	0.26%	0.06%	0.09%	0.01%	0.17%	0.12%	0.45%	0.63%	0.01%	0.40%	0.16%	1.20%	0.12%	97.77%	100%
	Cost	\$1,876	\$433	\$655	\$78	\$1,266	\$833	\$3,264	\$4,529	\$89	\$2,864	\$1,177	\$8,659	\$899	\$707,847	\$724,000
396. El Toro Rd & Avd de la Carlota	Share	0.14%	0.03%	0.29%	0.01%	0.09%	0.05%	0.47%	0.45%	0.37%	0.44%	0.23%	1.48%	0.07%	97.74%	100%
	Cost	\$16	\$3	\$34	\$1	\$10	\$6	\$54	\$52	\$43	\$51	\$26	\$172	\$8	\$11,349	\$11,612
420. El Toro Rd & Jeronimo Rd	Share	0.05%	0.01%	0.72%	0.00%	0.01%	0.01%	0.75%	0.52%	1.00%	0.93%	0.30%	2.75%	0.01%	96.41%	100%
	Cost	\$2,897	\$444	\$39,064	\$74	\$519	\$815	\$40,918	\$28,391	\$54,558	\$50,851	\$16,234	\$150,033	\$667	\$5,262,860	\$5,459,000
422. Los Alisos Blvd & Jeronimo Rd	Share	0.05%	0.01%	0.17%	0.00%	0.01%	0.01%	0.20%	0.33%	0.25%	0.77%	0.31%	1.66%	0.01%	98.08%	100%
	Cost	\$989	\$158	\$3,596	\$0	\$198	\$277	\$4,227	\$6,796	\$5,097	\$15,805	\$6,480	\$34,178	\$158	\$2,023,488	\$2,063,000
423. Muirlands Blvd & Los Alisos Blvd	Share	0.03%	0.00%	0.34%	0.00%	0.00%	0.00%	0.35%	0.23%	0.53%	0.57%	0.31%	1.63%	0.00%	97.99%	100%
	Cost	\$1,970	\$94	\$20,065	\$0	\$94	\$94	\$20,346	\$13,220	\$30,660	\$33,098	\$17,815	\$94,793	\$0	\$5,703,079	\$5,820,000
424. Los Alisos Blvd & Rockfield Blvd/Fordview St	Share	0.03%	0.00%	0.09%	0.00%	0.01%	0.00%	0.10%	0.08%	0.17%	0.10%	0.14%	0.49%	0.00%	99.37%	100%
	Cost	\$618	\$62	\$1,913	\$0	\$123	\$62	\$2,160	\$1,790	\$3,704	\$2,098	\$2,963	\$10,556	\$0	\$2,159,296	\$2,173,000

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Location		Irvine Northern Sphere Future Development Areas							Orange County Great Park Future Development Areas					PA1	Remainder (a)	Total
		PA40	PA5B	PA6	PA8A	PA9A	PA9B	Sub-Total	GP I	GP II	GP III	GP IV	Sub-Total			
432. Alicia Pkwy & Muirlands Blvd	Share	0.07%	0.00%	0.20%	0.00%	0.02%	0.01%	0.23%	0.18%	0.30%	0.36%	0.21%	1.07%	0.01%	98.51%	100%
	Cost	\$4,693	\$227	\$13,553	\$151	\$1,211	\$379	\$15,521	\$12,341	\$20,367	\$24,455	\$14,385	\$71,549	\$606	\$6,605,134	\$6,705,000
557. Ridge Valley & Irvine Blvd	Share	1.89%	0.51%	9.08%	0.08%	2.13%	1.33%	13.13%	12.79%	7.58%	0.44%	0.13%	20.94%	0.41%	63.24%	100%
	Cost	\$3,151	\$850	\$15,164	\$141	\$3,559	\$2,215	\$21,929	\$21,365	\$12,655	\$730	\$215	\$34,965	\$689	\$105,618	\$167,000
Roadway Segments																
Jamboree Rd (Portola Pkwy to north Tustin city limits)	Share	0.52%	0.26%	0.67%	0.04%	0.53%	0.62%	2.12%	0.23%	0.10%	0.17%	0.05%	0.56%	3.61%	92.81%	100%
	Cost	\$19,867	\$9,987	\$25,681	\$1,617	\$20,545	\$23,778	\$81,607	\$9,036	\$3,994	\$6,658	\$1,902	\$21,591	\$139,151	\$3,578,743	\$3,856,000
Jeffrey Rd (future extension from Portola Pkwy to SR-241)	Share	2.58%	1.06%	1.32%	0.17%	2.26%	1.57%	6.37%	0.45%	0.18%	0.30%	0.03%	0.96%	2.39%	83.21%	100%
	Cost	\$634,096	\$259,390	\$323,915	\$42,587	\$553,624	\$384,569	\$1,564,084	\$109,692	\$43,877	\$74,849	\$7,743	\$236,161	\$587,177	\$20,422,146	\$24,544,000
SR-133 (I-405 to Lake Forest Dr)	Share	0.57%	0.15%	0.45%	0.03%	0.47%	0.33%	1.42%	1.40%	0.22%	0.01%	0.03%	1.65%	0.31%	95.55%	100%
	Cost	\$28,143	\$7,378	\$22,135	\$1,277	\$23,341	\$16,389	\$70,520	\$69,243	\$10,713	\$426	\$1,561	\$81,943	\$15,324	\$4,732,817	\$4,953,105
Freeway Mainline																
I-5 (Sand Canyon Ave to Jeffrey Rd) (f)	Share	0.80%	0.19%	0.05%	0.05%	0.24%	0.12%	0.64%	0.57%	0.07%	0.77%	0.42%	1.85%	0.42%	96.02%	100%
	Cost	\$90,394	\$21,519	\$5,176	\$5,214	\$26,917	\$13,089	\$71,914	\$64,778	\$8,356	\$87,147	\$47,807	\$208,088	\$47,252	\$10,822,397	\$11,271,000
I-405 (Sand Canyon Ave to Jeffrey Rd)	Share	0.35%	0.00%	0.26%	0.00%	0.17%	0.11%	0.54%	0.48%	0.18%	0.47%	0.36%	1.49%	0.00%	97.52%	100%
	Cost	\$1,798	\$0	\$1,365	\$0	\$876	\$562	\$2,803	\$2,469	\$945	\$2,450	\$1,839	\$7,703	\$0	\$504,169	\$517,000
Freeway Ramps																
I-5 at Alton Pkwy (southbound off-ramp)	Share	1.77%	0.41%	1.37%	0.08%	1.70%	1.15%	4.72%	1.98%	0.68%	1.77%	1.15%	5.59%	0.67%	86.71%	100%
	Cost	\$80,657	\$18,689	\$62,510	\$3,867	\$77,762	\$52,414	\$215,239	\$90,435	\$31,148	\$80,983	\$52,628	\$255,195	\$30,503	\$3,956,590	\$4,563,000
I-5 at Bake Pkwy (southbound off-ramp)	Share	0.89%	0.16%	0.09%	0.05%	0.81%	0.38%	1.48%	0.77%	0.00%	0.02%	4.34%	5.13%	0.34%	91.77%	100%
	Cost	\$29,764	\$5,310	\$2,935	\$1,537	\$27,112	\$12,857	\$49,752	\$25,854	\$139	\$559	\$145,901	\$172,453	\$11,320	\$3,085,292	\$3,362,000
I-5 at Culver Drive (southbound off-ramp)	Share	1.35%	0.85%	0.62%	0.05%	2.77%	0.68%	4.97%	0.38%	0.31%	0.00%	0.00%	0.68%	4.17%	86.53%	100%
	Cost	\$81,775	\$51,342	\$37,429	\$3,312	\$167,936	\$41,073	\$301,093	\$22,855	\$18,549	\$0	\$0	\$41,404	\$252,402	\$5,237,498	\$6,053,000
I-5 at El Toro Rd (northbound loop on-ramp)	Share	0.53%	0.11%	0.18%	0.02%	0.32%	0.21%	0.84%	1.76%	0.00%	2.10%	0.86%	4.72%	0.25%	93.30%	100%
	Cost	\$1,345	\$280	\$447	\$56	\$802	\$541	\$2,124	\$4,473	\$0	\$5,330	\$2,181	\$11,984	\$634	\$236,985	\$254,000
I-5 at El Toro Rd (southbound off-ramp)	Share	0.41%	0.09%	0.14%	0.02%	0.26%	0.17%	0.69%	0.94%	0.02%	0.56%	0.26%	1.79%	0.20%	96.56%	100%
	Cost	\$9,093	\$2,048	\$3,159	\$351	\$5,791	\$3,744	\$15,091	\$20,707	\$467	\$12,342	\$5,732	\$39,250	\$4,445	\$2,120,542	\$2,196,000
I-5 at Jamboree Rd (northbound off-ramp)	Share	3.09%	0.03%	0.02%	0.05%	0.61%	0.05%	0.75%	0.49%	0.02%	0.92%	0.41%	1.84%	0.05%	93.46%	100%
	Cost	\$165,131	\$1,714	\$857	\$2,571	\$32,566	\$2,571	\$40,278	\$26,138	\$857	\$49,276	\$21,853	\$98,125	\$2,571	\$4,992,780	\$5,342,000
I-5 at Jamboree Rd (southbound off-ramp)	Share	0.00%	0.01%	0.05%	0.00%	0.39%	0.04%	0.49%	0.00%	0.00%	0.00%	0.00%	0.00%	0.22%	99.31%	100%
	Cost	\$0	\$323	\$1,935	\$0	\$13,873	\$1,291	\$17,422	\$0	\$0	\$0	\$0	\$0	\$7,743	\$3,525,480	\$3,550,000
I-5 at Jeffrey Rd (southbound on-ramp)	Share	0.35%	1.47%	0.00%	0.46%	1.24%	0.41%	3.58%	0.43%	0.01%	0.58%	0.71%	1.72%	1.13%	93.26%	100%
	Cost	\$618	\$2,582	\$0	\$813	\$2,187	\$717	\$6,297	\$752	\$24	\$1,015	\$1,243	\$3,036	\$1,983	\$164,146	\$176,000
I-5 at Sand Canyon Ave (northbound on-ramp)	Share	9.79%	0.05%	0.14%	0.01%	0.20%	0.08%	0.48%	2.56%	0.08%	5.82%	0.00%	8.46%	0.05%	83.13%	100%
	Cost	\$58,274	\$298	\$846	\$50	\$1,195	\$448	\$2,838	\$15,234	\$448	\$34,649	\$0	\$50,330	\$298	\$494,638	\$595,000
I-405 at Irvine Center Dr (southbound off-ramp)	Share	0.40%	0.13%	0.39%	0.03%	0.58%	0.43%	1.55%	1.19%	0.15%	0.06%	0.31%	1.71%	0.17%	96.14%	100%
	Cost	\$26,381	\$8,488	\$25,465	\$1,819	\$38,198	\$28,496	\$102,466	\$78,820	\$9,701	\$4,244	\$20,614	\$113,380	\$11,520	\$6,357,744	\$6,613,000
I-405 at Jeffrey Rd (northbound off-ramp)	Share	0.22%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.16%	0.02%	0.46%	0.59%	1.22%	0.00%	98.76%	100%
	Cost	\$12,900	\$0	\$0	\$0	\$0	\$0	\$0	\$9,373	\$969	\$26,826	\$34,583	\$71,751	\$0	\$5,818,956	\$5,892,000
I-405 at Sand Canyon Ave (northbound direct on-ramp)	Share	3.43%	0.00%	1.11%	0.00%	1.71%	1.10%	3.92%	1.98%	0.14%	1.77%	0.00%	3.90%	0.00%	88.89%	100%
	Cost	\$21,049	\$0	\$6,830	\$0	\$10,473	\$6,729	\$24,032	\$12,143	\$860	\$10,877	\$0	\$23,880	\$0	\$544,900	\$613,000

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Location		Irvine Northern Sphere Future Development Areas							Orange County Great Park Future Development Areas					PA1	Remainder (a)	Total
		PA40	PA5B	PA6	PA8A	PA9A	PA9B	Sub-Total	GP I	GP II	GP III	GP IV	Sub-Total			
I-405 at Sand Canyon Ave (southbound off-ramp)	Share	2.07%	0.00%	1.07%	0.00%	1.35%	0.80%	3.23%	0.49%	0.03%	1.20%	0.00%	1.72%	0.00%	92.12%	100%
	Cost	\$111,632	\$0	\$57,987	\$0	\$73,146	\$43,206	\$174,339	\$26,530	\$1,516	\$64,808	\$0	\$92,855	\$0	\$4,977,006	\$5,403,000
SR-133 at Barranca Pkwy (southbound loop on-ramp)	Share	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.09%	0.09%	0.00%	99.93%	100%
	Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$310	\$310	\$0	\$363,752	\$364,000
Interchanges																
SR-241 at Jeffrey Rd	Share	2.36%	0.94%	1.18%	0.15%	2.00%	1.39%	5.67%	0.59%	0.23%	0.33%	0.13%	1.29%	2.13%	84.59%	100%
	Cost	\$466,115	\$185,714	\$232,837	\$30,490	\$396,376	\$275,338	\$1,120,755	\$117,342	\$46,197	\$65,601	\$25,871	\$255,011	\$420,399	\$16,730,953	\$19,780,000
Sub-Total Cost (Partially Funded)		\$1,900,389	\$593,140	\$931,691	\$100,079	\$1,529,772	\$943,969	\$4,098,646	\$830,233	\$329,940	\$752,842	\$482,964	\$2,395,984	\$1,558,662	\$130,057,814	\$142,251,855
NITM PROGRAM ADMINISTRATIVE COSTS AND CALTRANS CONTINGENCY FUND																
Share of Administrative Costs (b)		26.26%	2.69%	6.48%	0.41%	9.74%	6.78%	26.09%	33.95%	6.73%	3.63%	2.43%	46.75%	0.90%	0%	100%
NITM Program Establishment Cost (b)		\$72,528	\$7,423	\$17,884	\$1,132	\$26,896	\$18,727	\$72,060	\$93,754	\$18,598	\$10,022	\$6,710	\$129,100	\$2,490	\$0	\$276,179
NITM Program Administration Cost (b)		\$637,621	\$65,260	\$157,225	\$9,952	\$236,451	\$164,633	\$633,512	\$824,227	\$163,499	\$88,107	\$58,989	\$1,134,974	\$21,892	\$0	\$2,428,000
Share of Caltrans Contingency Fund (b)		27.56%	3.15%	5.80%	0.55%	13.41%	5.82%	28.73%	11.22%	2.07%	10.66%	9.37%	33.32%	10.38%	0%	100%
Caltrans Contingency Fund (b)		\$137,821	\$15,769	\$28,981	\$2,743	\$67,059	\$29,091	\$143,643	\$56,099	\$10,362	\$53,296	\$46,861	\$166,618	\$51,917	\$0	\$500,000
Sub-Total Cost (Administrative and		\$847,970	\$88,452	\$204,091	\$13,827	\$330,405	\$212,451	\$849,216	\$974,080	\$192,459	\$151,425	\$112,560	\$1,430,693	\$76,300	\$0	\$3,204,179
TOTAL (LIST OF NITM IMPROVEMENTS, NITM PROGRAM ADMINISTRATIVE COSTS, AND CALTRANS CONTINGENCY FUND)																
Total Cost		\$45,108,660	\$4,865,379	\$11,579,335	\$747,527	\$17,587,671	\$12,237,374	\$47,016,523	\$61,050,943	\$12,050,039	\$6,554,288	\$4,405,690	\$84,072,250	\$1,634,962	\$130,057,814	\$310,129,722
Share of Total Cost		14.55%	1.57%	3.73%	0.24%	5.67%	3.95%	15.16%	19.69%	3.89%	2.11%	1.42%	27.11%	0.53%	41.94%	100.00%

(a) Traffic share percentage and allocated cost for existing traffic and future traffic due to future development in areas other than PA40, the Irvine Northern Sphere Area, the Orange County Great Park and PA1.

(b) Allocation of Administrative Costs held as part of PA 40 GPA/ZC Re-Allocation

(e) The cost estimate at this intersection includes a contribution to the City of Irvine Traffic Management Systems Operation Study (TMSOS).

(f) The cost estimate for the I-5 mainline improvements at this location includes the cost to add a second drop lane from I-5 to the southbound off-ramp at Sand Canyon Avenue.

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Allocation of Costs Based on PA 40 GPA/ZC Scenario 3

Location	PA40	Irvine Northern Sphere Future Development Areas						Orange County Great Park Future Development Areas					Total	
		PA5B	PA6	PA8A	PA9A	PA9B	Sub-Total	GP I	GP II	GP III	GP IV	Sub-Total		
FULLY FUNDED IMPROVEMENTS IN THE NITM PROGRAM														
Intersections														
34. Red Hill Ave & Irvine Blvd (d)	Share	4.51%	20.62%	14.68%	0.77%	9.54%	19.34%	64.95%	16.06%	12.99%	1.02%	0.47%	30.54%	100%
	Cost	\$7,720	\$35,294	\$25,127	\$1,318	\$16,329	\$33,103	\$111,172	\$27,489	\$22,234	\$1,746	\$804	\$52,274	\$171,165
91. Tustin Ranch Rd & Irvine Blvd (d)	Share	3.42%	19.47%	18.29%	0.74%	9.00%	21.40%	68.90%	14.67%	11.99%	0.70%	0.32%	27.68%	100%
	Cost	\$5,854	\$33,326	\$31,306	\$1,267	\$15,405	\$36,629	\$117,933	\$25,110	\$20,523	\$1,198	\$548	\$47,378	\$171,165
125. Jamboree Rd & Irvine Blvd	Share	3.70%	23.65%	13.07%	0.75%	9.21%	20.38%	67.06%	14.70%	12.27%	1.43%	0.84%	29.24%	100%
	Cost	\$39,701	\$253,765	\$140,241	\$8,048	\$98,823	\$218,677	\$719,554	\$157,731	\$131,657	\$15,344	\$9,013	\$313,745	\$1,073,000
222. Culver Dr & Trabuco Rd	Share	17.58%	14.92%	6.53%	0.97%	33.50%	9.92%	65.84%	9.11%	3.41%	2.48%	1.58%	16.58%	100%
	Cost	\$561,077	\$476,181	\$208,409	\$30,958	\$1,069,174	\$316,603	\$2,101,326	\$290,752	\$108,832	\$79,151	\$50,427	\$529,161	\$3,191,565
223. Culver Dr & I-5 southbound ramps	Share	12.07%	18.48%	7.87%	0.94%	32.05%	12.67%	72.01%	8.22%	4.45%	1.59%	1.66%	15.92%	100%
	Cost	\$47,763	\$73,128	\$31,143	\$3,720	\$126,827	\$50,137	\$284,954	\$32,528	\$17,609	\$6,292	\$6,569	\$62,998	\$395,715
224. Culver Dr & Walnut Ave (d)	Share	12.56%	19.71%	6.97%	1.10%	30.08%	12.70%	70.56%	9.34%	4.32%	1.98%	1.24%	16.88%	100%
	Cost	\$21,498	\$33,737	\$11,930	\$1,883	\$51,486	\$21,738	\$120,774	\$15,987	\$7,394	\$3,389	\$2,122	\$28,893	\$171,165
235. Culver Dr & University Dr	Share	18.19%	6.19%	12.34%	1.25%	16.98%	11.21%	47.97%	12.42%	6.93%	9.70%	4.79%	33.84%	100%
	Cost	\$792,175	\$269,575	\$537,407	\$54,438	\$739,479	\$488,196	\$2,089,094	\$540,891	\$301,802	\$422,435	\$208,605	\$1,473,732	\$4,355,000
249. Yale Ave & Irvine Blvd	Share	3.49%	29.76%	12.89%	0.26%	6.87%	22.27%	72.05%	12.28%	11.45%	0.54%	0.19%	24.46%	100%
	Cost	\$164,937	\$1,406,458	\$609,181	\$12,288	\$324,676	\$1,052,480	\$3,405,083	\$580,353	\$541,127	\$25,520	\$8,979	\$1,155,980	\$4,726,000
288. Jeffrey Rd & Walnut Ave/ I-5 southbound ramps	Share	25.57%	11.37%	7.93%	3.94%	24.85%	14.77%	62.86%	5.63%	3.96%	0.99%	0.99%	11.57%	100%
	Cost	\$289,294	\$128,638	\$89,718	\$44,576	\$281,148	\$167,105	\$711,185	\$63,697	\$44,803	\$11,201	\$11,201	\$130,901	\$1,131,379
289. Jeffrey Rd & Irvine Center Dr	Share	24.39%	9.99%	8.35%	3.21%	25.05%	14.76%	61.36%	6.51%	4.40%	2.42%	0.92%	14.25%	100%
	Cost	\$2,846,069	\$1,165,733	\$974,362	\$374,575	\$2,923,085	\$1,722,344	\$7,160,098	\$759,652	\$513,436	\$282,390	\$107,355	\$1,662,833	\$11,669,000
291. Jeffrey Rd & Alton Pkwy	Share	21.26%	8.41%	8.71%	2.49%	24.94%	15.23%	59.78%	7.33%	4.93%	4.65%	2.05%	18.96%	100%
	Cost	\$273,829	\$108,321	\$112,185	\$32,071	\$321,227	\$196,162	\$769,966	\$94,410	\$63,498	\$59,892	\$26,404	\$244,205	\$1,288,000
302. Sand Canyon Ave & Trabuco Rd	Share	20.39%	1.59%	12.93%	0.33%	26.08%	14.38%	55.31%	15.07%	3.68%	4.79%	0.76%	24.30%	100%
	Cost	\$84,993	\$6,628	\$53,897	\$1,376	\$108,712	\$59,941	\$230,554	\$62,818	\$15,340	\$19,967	\$3,168	\$101,292	\$416,839
303. Sand Canyon Ave & I-5 northbound ramps/Marine Wy	Share	37.36%	1.29%	8.04%	0.26%	14.81%	8.17%	32.57%	10.69%	2.63%	15.67%	1.08%	30.07%	100%
	Cost	\$1,211,211	\$41,822	\$260,657	\$8,429	\$480,140	\$264,871	\$1,055,919	\$346,570	\$85,265	\$508,021	\$35,014	\$974,869	\$3,242,000
305. Sand Canyon Ave & I-5 southbound ramps	Share	36.02%	1.49%	9.84%	0.29%	16.16%	9.39%	37.17%	12.14%	3.68%	10.39%	0.60%	26.81%	100%
	Cost	\$691,944	\$28,623	\$189,026	\$5,571	\$310,434	\$180,382	\$714,036	\$233,209	\$70,693	\$199,592	\$11,526	\$515,020	\$1,921,000
306. Sand Canyon Ave & Oak Canyon/Laguna Canyon Rd	Share	30.99%	1.70%	11.80%	0.33%	17.33%	11.33%	42.49%	13.35%	4.56%	8.23%	0.38%	26.52%	100%
	Cost	\$299,983	\$16,456	\$114,224	\$3,194	\$167,754	\$109,674	\$411,303	\$129,228	\$44,141	\$79,666	\$3,678	\$256,714	\$968,000
310. Sand Canyon Ave & Alton Pkwy	Share	26.53%	1.48%	11.52%	0.29%	11.71%	6.44%	31.44%	12.93%	3.63%	19.27%	6.20%	42.03%	100%
	Cost	\$92,324	\$5,150	\$40,090	\$1,009	\$40,751	\$22,411	\$109,411	\$44,996	\$12,632	\$67,060	\$21,576	\$146,264	\$348,000
311. Sand Canyon Ave & I-405 northbound ramps	Share	29.73%	0.86%	14.27%	0.17%	12.13%	6.50%	33.93%	14.61%	3.13%	14.99%	3.61%	36.34%	100%
	Cost	\$363,598	\$10,518	\$174,522	\$2,079	\$148,350	\$79,495	\$414,964	\$178,680	\$38,280	\$183,328	\$44,150	\$444,438	\$1,223,000
321. Laguna Canyon Rd & Old Laguna Canyon Rd	Share	15.56%	4.11%	12.64%	0.71%	12.01%	8.14%	37.61%	38.38%	6.12%	0.32%	2.01%	46.83%	100%
	Cost	\$311,978	\$82,406	\$253,432	\$14,236	\$240,801	\$163,207	\$754,081	\$769,519	\$122,706	\$6,416	\$40,301	\$938,942	\$2,005,000
338. Alton Pkwy & Irvine Blvd (e)	Share	3.26%	1.12%	23.20%	0.18%	3.93%	2.63%	31.06%	24.93%	31.00%	7.28%	2.47%	65.68%	100%
	Cost	\$91,358	\$31,387	\$650,156	\$5,044	\$110,134	\$73,703	\$870,424	\$698,637	\$868,743	\$204,014	\$69,219	\$1,840,614	\$2,802,396
345. Alton Pkwy & I-5 northbound ramps	Share	5.68%	1.64%	5.36%	0.35%	4.69%	2.65%	14.69%	9.92%	6.82%	40.45%	22.44%	79.63%	100%
	Cost	\$1,647	\$476	\$1,554	\$102	\$1,360	\$769	\$4,260	\$2,877	\$1,978	\$11,731	\$6,508	\$23,093	\$29,000
362. Bake Pkwy & Irvine Blvd (e)	Share	2.45%	0.84%	26.18%	0.11%	2.37%	1.78%	31.28%	24.95%	29.83%	5.46%	6.03%	66.27%	100%
	Cost	\$160,941	\$55,180	\$1,719,764	\$7,226	\$155,685	\$116,928	\$2,054,783	\$1,638,966	\$1,959,533	\$358,667	\$396,111	\$4,353,276	\$6,569,000
364. Bake Pkwy & Jeronimo Rd	Share	0.65%	0.30%	21.59%	0.01%	0.49%	0.93%	23.32%	12.21%	22.45%	23.48%	17.89%	76.03%	100%
	Cost	\$32,097	\$14,814	\$1,066,114	\$494	\$24,196	\$45,923	\$1,151,542	\$602,930	\$1,108,581	\$1,159,442	\$883,408	\$3,754,361	\$4,938,000
368. Bake Pkwy & I-5 southbound ramps	Share	5.35%	1.04%	7.32%	0.26%	4.26%	2.31%	15.19%	9.57%	7.27%	25.69%	36.93%	79.46%	100%
	Cost	\$156,809	\$30,482	\$214,549	\$7,621	\$124,861	\$67,706	\$445,219	\$280,497	\$213,084	\$752,974	\$1,082,418	\$2,328,973	\$2,931,000

Allocation of Costs Based on PA 40 GPA/ZC Scenario 3

Location	PA40	Irvine Northern Sphere Future Development Areas						Orange County Great Park Future Development Areas					Total	
		PA5B	PA6	PA8A	PA9A	PA9B	Sub-Total	GP I	GP II	GP III	GP IV	Sub-Total		
FULLY FUNDED IMPROVEMENTS IN THE NITM PROGRAM														
379. Lake Forest Dr & Muirlands Blvd	Share	4.28%	0.14%	2.49%	0.05%	1.03%	0.28%	3.99%	15.33%	4.33%	49.64%	22.43%	91.73%	100%
	Cost	\$656	\$21	\$382	\$8	\$158	\$43	\$611	\$2,349	\$664	\$7,607	\$3,437	\$14,057	\$15,324
383. Lake Forest Dr & Av Carlota/ I-5 southbound ramps (d) (e)	Share	5.83%	1.42%	20.70%	0.33%	5.39%	3.16%	31.00%	18.19%	22.38%	14.81%	7.79%	63.17%	100%
	Cost	\$69,669	\$16,969	\$247,365	\$3,944	\$64,411	\$37,762	\$370,450	\$217,371	\$267,441	\$176,980	\$93,091	\$754,882	\$1,195,000
406. Laguna Canyon Rd & Lake Forest Dr	Share	16.11%	4.20%	12.53%	0.74%	12.40%	8.28%	38.15%	38.53%	5.81%	0.21%	1.19%	45.74%	100%
	Cost	\$65,505	\$17,078	\$50,948	\$3,009	\$50,420	\$33,667	\$155,122	\$156,668	\$23,624	\$854	\$4,839	\$185,984	\$406,612
407. Laguna Canyon Rd & Bake Pkwy	Share	14.72%	3.54%	12.03%	0.59%	9.67%	6.44%	32.27%	31.09%	7.47%	8.92%	5.53%	53.01%	100%
	Cost	\$170,752	\$41,064	\$139,548	\$6,844	\$112,172	\$74,704	\$374,332	\$360,644	\$86,652	\$103,472	\$64,148	\$614,916	\$1,160,000
Interchanges														
SR-133 at Trabuco Rd	Share	18.95%	0.45%	3.49%	0.09%	8.10%	5.42%	17.55%	56.04%	5.51%	1.21%	0.74%	63.50%	100%
	Cost	\$20,117,389	\$477,722	\$3,704,997	\$95,544	\$8,598,989	\$5,753,892	\$18,631,144	\$59,492,267	\$5,849,436	\$1,284,540	\$785,587	\$67,411,831	\$106,160,363
Sub-Total Cost (Fully Funded)		\$28,972,770	\$4,860,949	\$11,652,235	\$730,869	\$16,706,986	\$11,388,255	\$45,339,294	\$67,806,824	\$12,541,706	\$6,032,888	\$3,980,205	\$90,361,624	\$164,673,688

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Fully-Funded Share Adjustments for PA 40 and OCGP

Location	PA40	Irvine Northern Sphere Future Development Areas							Orange County Great Park Future Development Areas										Total		
		PA5B	PA6	PA8A	PA9A	PA9B	Sub-Total	GP I	GP II	GP III	GP IV	Sub-Total									
FULLY FUNDED IMPROVEMENTS IN THE NITM PROGRAM																					
Intersections																					
		5-Year	Prop. Share	Revised	Shares Held at 5-Year Allocations						5-Year	Revised	5-Year	Revised	5-Year	Revised	5-Year	Revised	5-Year	Revised	
34. Red Hill Ave & Irvine Blvd (d)	Share	7.28%		6.53%	18.87%	13.58%	0.69%	10.42%	19.87%	63.42%	15.56%	14.69%	12.36%	12.84%	0.95%	1.89%	0.41%	0.63%	29.29%	30.05%	100%
	Cost	\$12,460	\$1,281	\$11,180	\$32,299	\$23,244	\$1,181	\$17,836	\$34,011	\$108,553	\$26,633	\$25,149	\$21,156	\$21,970	\$1,626	\$3,236	\$702	\$1,079	\$50,134	\$51,433	\$171,165
91. Tustin Ranch Rd & Irvine Blvd (d)	Share	6.35%		5.70%	17.90%	17.36%	0.66%	9.84%	21.33%	67.10%	14.24%	13.46%	11.41%	11.92%	0.61%	1.34%	0.28%	0.48%	26.54%	27.20%	100%
	Cost	\$10,869	\$1,117	\$9,752	\$30,639	\$29,714	\$1,130	\$16,842	\$36,509	\$114,852	\$24,374	\$23,041	\$19,530	\$20,406	\$1,044	\$2,299	\$479	\$814	\$45,427	\$46,561	\$171,165
125. Jamboree Rd & Irvine Blvd	Share	6.74%		6.05%	21.39%	11.84%	0.67%	10.39%	21.21%	65.51%	14.05%	13.08%	11.48%	11.94%	1.46%	2.42%	0.77%	1.00%	27.75%	28.44%	100%
	Cost	\$72,320	\$7,433	\$64,887	\$229,515	\$127,043	\$7,189	\$111,485	\$227,583	\$702,922	\$150,757	\$140,358	\$123,180	\$128,120	\$15,666	\$25,974	\$8,262	\$10,739	\$297,758	\$305,191	\$1,073,000
222. Culver Dr & Trabuco Rd	Share	32.20%		28.89%	11.67%	4.95%	0.67%	28.68%	10.12%	56.10%	5.89%	7.34%	2.69%	3.30%	1.83%	2.94%	1.30%	1.42%	11.70%	15.01%	100%
	Cost	\$1,027,684	\$105,630	\$922,054	\$372,456	\$157,982	\$21,383	\$915,341	\$322,986	\$1,790,468	\$187,983	\$234,332	\$85,853	\$105,422	\$58,406	\$93,951	\$41,490	\$45,337	\$373,413	\$479,043	\$3,191,565
223. Culver Dr & I-5 southbound ramps	Share	23.00%		20.64%	15.30%	6.77%	0.78%	28.93%	12.87%	64.65%	5.61%	6.95%	3.86%	4.11%	1.43%	2.14%	1.43%	1.52%	12.34%	14.71%	100%
	Cost	\$91,014	\$9,355	\$81,659	\$60,545	\$26,790	\$3,087	\$114,480	\$50,928	\$255,830	\$22,200	\$27,499	\$15,274	\$16,254	\$5,659	\$8,461	\$5,659	\$6,012	\$48,831	\$58,226	\$395,715
224. Culver Dr & Walnut Ave (d)	Share	22.53%		20.21%	15.92%	5.97%	0.87%	28.10%	12.67%	63.53%	7.71%	8.37%	3.68%	4.78%	1.57%	2.18%	0.99%	0.93%	13.95%	16.26%	100%
	Cost	\$38,563	\$3,964	\$34,600	\$27,250	\$10,219	\$1,490	\$48,097	\$21,687	\$108,741	\$13,197	\$14,324	\$6,298	\$8,177	\$2,688	\$3,732	\$1,694	\$1,592	\$23,878	\$27,824	\$171,165
235. Culver Dr & University Dr	Share	23.77%		21.33%	5.49%	11.01%	1.10%	16.61%	11.26%	45.47%	11.26%	11.56%	6.24%	8.51%	8.87%	8.86%	4.38%	4.27%	30.76%	33.20%	100%
	Cost	\$1,035,184	\$106,401	\$928,783	\$239,089	\$479,486	\$47,905	\$723,366	\$490,373	\$1,980,219	\$490,373	\$503,354	\$271,752	\$370,651	\$386,289	\$385,904	\$190,749	\$186,088	\$1,339,598	\$1,445,998	\$4,355,000
249. Yale Ave & Irvine Blvd	Share	6.06%		5.44%	27.03%	11.87%	0.23%	7.95%	23.75%	70.83%	11.67%	11.60%	10.79%	11.05%	0.47%	0.83%	0.18%	0.26%	23.11%	23.73%	100%
	Cost	\$286,395	\$29,437	\$256,958	\$1,277,438	\$560,976	\$10,870	\$375,717	\$1,122,425	\$3,347,426	\$551,524	\$548,229	\$509,936	\$522,023	\$22,212	\$39,309	\$8,507	\$12,055	\$1,092,178	\$1,121,616	\$4,726,000
288. Jeffrey Rd & Walnut Ave/ I-5 southbound ramps	Share	37.32%		33.48%	9.52%	6.57%	3.38%	21.22%	12.76%	53.45%	4.35%	6.29%	3.19%	4.18%	0.85%	1.51%	0.83%	1.08%	9.23%	13.07%	100%
	Cost	\$422,231	\$43,399	\$378,832	\$107,707	\$74,332	\$38,241	\$240,079	\$144,364	\$604,722	\$49,215	\$71,132	\$36,091	\$47,316	\$9,617	\$17,101	\$9,390	\$12,275	\$104,426	\$147,825	\$1,131,379
289. Jeffrey Rd & Irvine Center Dr	Share	32.87%		29.49%	8.89%	7.29%	2.89%	22.44%	13.55%	55.05%	5.33%	6.28%	3.71%	4.69%	2.21%	3.35%	0.83%	1.14%	12.08%	15.46%	100%
	Cost	\$3,835,601	\$394,239	\$3,441,362	\$1,037,374	\$850,670	\$337,234	\$2,618,523	\$1,581,150	\$6,423,785	\$621,957	\$732,258	\$432,920	\$547,355	\$257,885	\$390,817	\$96,852	\$133,424	\$1,409,615	\$1,803,854	\$11,669,000
291. Jeffrey Rd & Alton Pkwy	Share	29.41%		26.39%	7.35%	7.68%	2.21%	22.87%	14.02%	54.13%	6.12%	6.43%	4.20%	5.28%	4.24%	5.42%	1.89%	2.35%	16.46%	19.48%	100%
	Cost	\$378,801	\$38,935	\$339,866	\$94,668	\$98,918	\$28,465	\$294,566	\$180,578	\$697,194	\$78,826	\$82,825	\$54,096	\$68,035	\$54,611	\$69,842	\$24,343	\$30,238	\$212,005	\$250,940	\$1,288,000
302. Sand Canyon Ave & Trabuco Rd	Share	30.08%		26.99%	1.19%	9.71%	0.25%	25.67%	14.65%	51.48%	11.25%	11.16%	2.91%	4.58%	3.62%	4.76%	0.64%	1.04%	18.43%	21.53%	100%
	Cost	\$125,385	\$12,888	\$112,497	\$4,960	\$40,475	\$1,042	\$107,003	\$61,067	\$46,589	\$46,894	\$46,502	\$12,130	\$19,077	\$15,090	\$19,827	\$2,668	\$4,346	\$76,823	\$89,753	\$416,839
303. Sand Canyon Ave & I-5 northbound ramps/Marine Wy	Share	40.61%		36.44%	1.04%	6.54%	0.20%	15.63%	8.99%	32.40%	9.51%	8.93%	2.14%	6.82%	14.28%	14.23%	1.07%	1.19%	27.00%	31.16%	100%
	Cost	\$1,316,576	\$135,323	\$1,181,253	\$33,717	\$212,027	\$6,484	\$506,724	\$291,456	\$1,050,408	\$308,314	\$289,623	\$69,379	\$220,949	\$462,957	\$461,309	\$34,690	\$38,458	\$875,340	\$1,010,339	\$3,242,000
305. Sand Canyon Ave & I-5 southbound ramps	Share	39.58%		35.51%	1.18%	8.03%	0.23%	17.36%	10.41%	37.22%	10.41%	10.15%	2.94%	6.90%	9.31%	9.95%	0.54%	0.28%	23.20%	27.27%	100%
	Cost	\$760,332	\$78,150	\$682,182	\$22,668	\$154,256	\$4,418	\$333,486	\$199,976	\$714,996	\$199,976	\$194,886	\$56,477	\$132,513	\$178,845	\$191,117	\$10,373	\$5,307	\$445,672	\$523,822	\$1,921,000
306. Sand Canyon Ave & Oak Canyon/Laguna Canyon Rd	Share	32.77%		29.40%	1.40%	10.00%	0.28%	19.12%	12.72%	43.52%	11.92%	10.68%	3.80%	7.55%	7.66%	8.59%	0.32%	0.25%	23.70%	27.08%	100%
	Cost	\$317,213	\$32,605	\$284,609	\$13,552	\$96,800	\$2,710	\$185,082	\$123,130	\$421,274	\$115,386	\$103,367	\$36,784	\$73,129	\$74,148	\$83,155	\$3,098	\$2,466	\$229,416	\$262,117	\$968,000
310. Sand Canyon Ave & Alton Pkwy	Share	28.19%		25.29%	1.31%	8.94%	0.26%	15.07%	9.17%	34.75%	11.28%	9.83%	2.73%	8.07%	17.46%	17.20%	5.58%	4.85%	37.06%	39.96%	100%
	Cost	\$98,101	\$10,083	\$88,018	\$4,559	\$31,111	\$905	\$52,444	\$31,912	\$120,930	\$39,255	\$34,223	\$9,500	\$28,098	\$60,761	\$59,859	\$19,419	\$16,871	\$128,969	\$139,051	\$348,000
311. Sand Canyon Ave & I-405 northbound ramps	Share	32.29%		28.97%	0.72%	10.55%	0.15%	15.73%	9.92%	37.06%	12.19%	10.42%	2.04%	8.26%	13.30%	14.11%	3.12%	1.18%	30.65%	33.97%	100%
	Cost	\$394,907	\$40,590	\$354,317	\$8,806	\$129,027	\$1,835	\$192,378	\$121,322	\$453,244	\$149,084	\$127,451	\$24,949	\$100,983	\$162,659	\$172,620	\$38,158	\$14,385	\$374,850	\$415,439	\$1,223,000
321. Laguna Canyon Rd & Old Laguna Canyon Rd	Share	25.42%		22.81%	3.56%	10.67%	0.62%	11.26%	7.90%	34.01%	33.39%	36.09%	5.20%	3.55%	0.24%	1.63%	1.74%	1.92%	40.57%	43.18%	100%
	Cost	\$509,671	\$52,386	\$457,285	\$71,378	\$213,934	\$12,431	\$225,763	\$158,395	\$681,901	\$669,470	\$723,603	\$104,260	\$71,106	\$4,812	\$32,625	\$34,887	\$38,481	\$813,429	\$865,814	\$2,005,000
338. Alton Pkwy & Irvine Blvd (e)	Share	4.85%		4.35%	1.10%	22.68%	0.17%	4.22%	2.92%	31.10%	24.22%	24.93%	30.34%	32.09%	7.08%	6.04%	2.41%	1.49%	64.05%	64.55%	100%
	Cost	\$135,916	\$13,970	\$121,946	\$30,826	\$635,583	\$4,764	\$118,261	\$81,830	\$871,545	\$678,740	\$698,668	\$850,247	\$899,250	\$198,410	\$169,167	\$67,538	\$41,821	\$1,794,935	\$1,808,905	\$2,802,396
345. Alton Pkwy & I-5 northbound ramps	Share	8.10%		7.27%	1.62%	5.33%	0.36%	4.85%	2.83%	14.98%	9.07%	6.48%	6.70%	10.26%	39.17%	38.05%	21.98%	22.96%	76.92%	77.75%	100%
	Cost	\$2,349	\$241	\$2,108	\$470	\$1,546	\$104	\$1,407	\$821	\$4,344	\$2,630	\$1,880	\$1,943	\$2,976	\$11,359	\$11,036	\$6,374	\$6,657	\$22,307	\$22,548	\$29,000
362. Bake Pkwy & Irvine Blvd (e)	Share	3.91%		3.51%	0.85%	25.65%	0.10%	2.57%	2.04%	31.20%	24.44%	25.65%	29.22%	30.02%	5.34%	4.51%	5.90%	5.11%	64.90%	65.29%	100%
	Cost	\$256,847	\$26,400	\$230,448	\$55,837	\$1,684,949	\$6,569	\$168,824	\$134,008	\$2,049,528	\$1,605,464	\$1,684,720	\$1,919,462	\$1,972,257	\$350,785	\$296,439	\$387,571	\$335,609	\$4,263,281	\$4,289,024	\$6,569,000
364. Bake Pkwy & Jeronimo Rd	Share	0.99%		0.89%	0.31%	21.51%	0.01%	0.54%	1.12%	23.50%	12.04%	11.17%	22.28%	19.24%	23.41%	25.78%	17.78%	19.42%	75.51%	75.61%	100%
	Cost	\$48,886	\$5,025	\$43,862	\$15,308	\$1,062,164	\$494	\$26,665	\$55,305	\$1,160,430	\$594,535	\$551,780	\$1,100,187	\$950,287	\$1,155,986	\$1,272,925	\$877,977	\$958,717	\$3,728,684	\$3,733,708	\$4,938,000
368. Bake Pkwy & I-5 southbound ramps	Share	6.59%		5.91%	1.01%	7.07%	0.26%	4.42%	2.38%	15.14%	9.10%	7.78%	7.16%	17.14%	25.40%	22.33%	36.62%	31.70%	78.28%	78.95%	100%
	Cost	\$193,153	\$19,853	\$173,300	\$29,603	\$207,222	\$7,621	\$129,550	\$69,758	\$443,753	\$266,721	\$227,990	\$209,860	\$502,404	\$744,474	\$654,569	\$1,073,332	\$928,983	\$2,294,387	\$2,313,947	\$2,931,000
379. Lake Forest Dr & Muirlands Blvd	Share	6.21%		5.57%	0.18%	2.53%	0.09%	1.01%	0.23%	4.05%											

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APPENDIX E

Technical Notes – ITAM 8.4-10, February 2012 Version
(Modeling for Review of the List of NITM Improvements), and
ITAM Traffic Shares Version

PAs 30 and 51 Future Development Areas With
TAZs Used In NITM Fair Share Modeling

P2030 NITM Starting Point Roadway Network Plot
(Fair Share Modeling)

P2030 Project Roadway Configuration
(Fair Share Modeling)

P2030 NITM Modified On-Site Roadway Network
(Fair Share Modeling)

Socio-Economic Data by ITAM TAZ for NITM Fee Re-Allocation
Fair Share Modeling

ITAM 8.4-10, FEBRUARY 2012 VERSION

GREAT PARK NEIGHBORHOODS 2011 APPROVED GPA/ZC NORTH IRVINE TRANSPORTATION MITIGATION (NITM) PROGRAM FEE REALLOCATION STUDY

MODELING FOR REVIEW OF THE LIST OF NITM IMPROVEMENTS AND TRAFFIC SHARES MODELING

1. MODELING FOR REVIEW OF THE LIST OF NITM IMPROVEMENTS

- ITAM 8.4-10 TAZ structure used for Great Park Neighborhoods and PA6 TIAs (refinement of old zone structure used for original NITM Program study and review/reallocation work).
- Available LFTAM data used for reviewing the List of NITM Improvements.
- PA40 and PA9B land use allocations were modified as requested by TIC.
- Minor corrections to post-processing input data and intersection lanes were included.

Starting Point ITAM 8.4-10 Versions (May 2011 Test Runs Conducted by Urban Crossroads)

- 2015 With Great Park Neighborhoods Project With Density Bonus
- 2030 With Great Park Neighborhoods Project With Density Bonus
- Post-2030 With Great Park Neighborhoods Project With Density Bonus

The following PA51 land use allocations were modified to account for the final GPA/ZC and VTTM approvals:

- **Planning Area 51:** The following land use adjustments in District 1 North represent approved land uses for 2015, 2030, and Post-2030 conditions:
 1. One hundred sixty-six (166) multi-family residential uses shift from TAZ 602 to TAZ 589.
 2. Senior residential (182 units) move from TAZ 602 to 603.
 3. Half of the institutional (education) uses (601 students) move from TAZ 603 to TAZ 602.

The following PA40 and PA9B land use allocations were modified as requested by TIC, and reviewed by the City:

- **Planning Area 40:** Land use data adjustments in Planning Area 40 include:
 1. The 2015 land uses assumed in TAZ 116 (9.298 TSF of office and 24.868 TSF of warehouse) are shifted to TAZ 850 in the 2030 and Post-2030 versions of the model. These land uses are shifted back to TAZ 116 in the 2030 and Post-2030 land use databases, with the following result:
 - TAZ 850 - 121.968 tsf Office, 0 tsf Warehouse (moves to TAZ 116), and 791.831 tsf Research and Development
 - TAZ 116 – 9.298 tsf Office, 24.868 tsf Warehouse, 424.676 tsf Research & Development, 4.6 tsf Church, and 48.389 tsf OCTA Facility.
 2. The 2030 and Post-2030 land use databases assign the PA40/PA12 GPA/ZC land uses east of SR-133 to TAZ’s 115, 979, 980 and 981 such that each of TAZs 115, 979, 980, and 981 contains 300 tsf Office
 3. Revisions for the Irvine Company property south of Marine Way as requested by TIC in TAZs 825 and 990 as follows:
 - TAZ 825 - 141.032 tsf Office
 - TAZ 990 - 87 tsf Office

- **Planning Area 9B:** Adjustments to the 2015, 2030 and Post-2030 residential land use assumptions in Planning Area 9B consist of the following:
 - TAZ 101 – Single Family Detached, decrease from 359 to 325 du
 - TAZ 101 – Condominiums, increase from 455 to 489 du
 - TAZ 101 – Apartments, decrease from 463 to 0 du
 - TAZ 101 – Elementary School, remain 900 stu
 - TAZ 820 – Apartments, increase from 528 to 991 du

Intersection Lane Configurations

The following intersection lane configuration changes were proposed by TIC and reviewed by the City:

- **Jeffrey Road & Irvine Center Drive (289):** The City of Irvine has approved the elimination of the PA17 mitigation requirement to construct a fourth eastbound through lane at this intersection. This improvement, which is currently assumed in the 2015, 2030 and Post-2030 versions of the model, is therefore proposed to be deleted from the model’s intersection lane configuration specifications.

- **Sand Canyon Avenue & Marine Way (304):** The updated lane configuration coded into the 2015 version of the model is as follows:

	Southbound			Westbound			Northbound			Eastbound		
	L	T	R	L	T	R	L	T	R	L	T	R
Updated Lanes	1	4	0	2	0	1	0	3	1	0	0	0

The following intersection lane configuration changes account for the final City Council approval of the Great Park Neighborhoods 2011 GPA/ZC:

- **Great Park Neighborhoods GPA/ZC PDF and Mitigation Improvements:** The 2030 and Post-2030 models that assume the Great Park Neighborhoods Project with Density Bonus were updated to include the following intersection improvements associated with that project:

1. **Jeffrey Road & Roosevelt (286):** The 2030 and Post-2030 intersection lanes were updated to include the Great Park Neighborhoods GPA/ZC mitigation requirement to modify the eastbound approach as follows:

	Southbound			Westbound			Northbound			Eastbound		
	L	T	R	L	T	R	L	T	R	L	T	R
Baseline Lanes	2	3	d	2	1	d	2	3	1	1	1	1
Mitigated Lanes	2	3	d	2	1	d	2	3	1	1	0.5	1.5

2. **Alton Parkway & Irvine Boulevard (338):** The 2030 intersection lanes were updated to include the Great Park Neighborhoods GPA/ZC Project Design Feature (PDF) to provide eastbound right-turn overlap phasing.

3. **Bake Parkway & Portola Parkway (361):** The Post-2030 intersection lanes were updated to include the Great Park Neighborhoods GPA/ZC mitigation requirement to modify the northbound approach and north/south signal control as follows:

	Southbound			Westbound			Northbound			Eastbound		
	L	T	R	L	T	R	L	T	R	L	T	R
Baseline Lanes	1	2	d	2	3	d	1	1.5	1.5	1	3	d
Mitigated Lanes	-1	-2	-d	2	3	d	-1.5	-1	-1.5	1	3	d

ADT Post-Processing

- Laguna Canyon Road: The 2007 count of 37,500 ADT was specified in the 2015, 2030 and Post-2030 models for post-processing each of the ADT posting locations between Old Laguna Canyon Road and SR-73.

2. TRAFFIC SHARES MODELING

- On-site land use and network updates
- Outside of PAs 30 and 51, no updates to land use or network features

Starting Point ITAM Versions

- Analysis of traffic shares based upon PA40 GPA/ZC Fee Reallocation version of original NITM Program model, which incorporates the previous interim review (PA1/9, 2006) and 5-year review (completed in 2010).

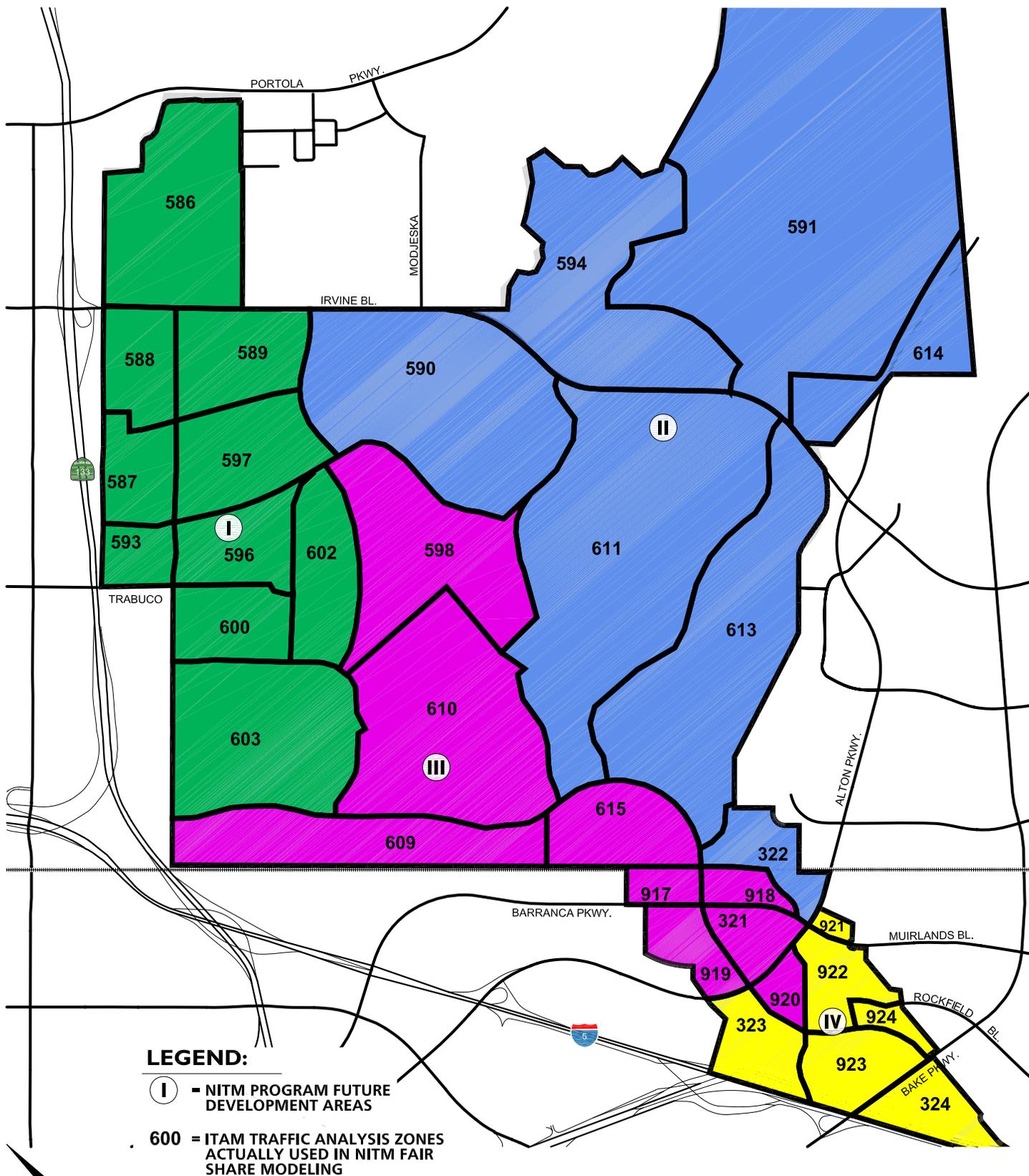
Traffic Analysis Zone Structure and Socio-Economic Data

- Each of the NITM TAZs is assigned to a future development area as shown on Exhibit E-1. The NITM TAZs are consolidated from previous visual representations of the NITM TAZs, and are adjusted in some cases in a manner which is consistent with on-site adjustments made in the PA40 GPA/ZC Fee reallocation study and NITM 5-Year review.
- On-site land uses have been converted to socio-economic data (SED) for use in the traffic shares modeling. A comparison of the starting point (PA 40 model) SED and proposed SED is included on Table E-1.

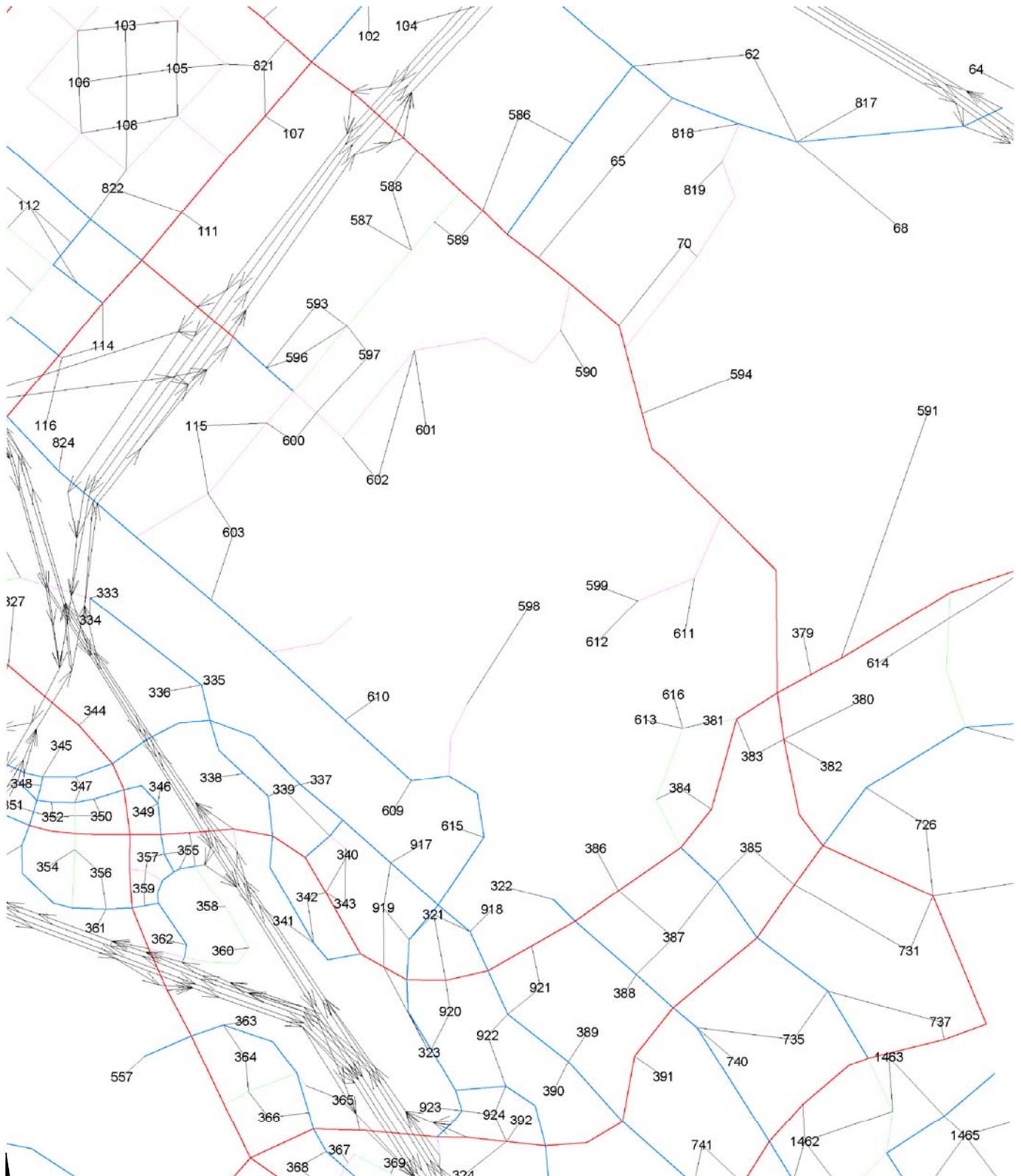
Highway Networks

- The NITM Model starting point roadway network for Planning Areas 30 and 51 is shown on Exhibit E-2. The backbone infrastructure on-site (i.e. the 2011 GPA/ZC and VTTM 17008 roadway system) is proposed to be included in the NITM Program model, as shown on Exhibit E-3. Exhibit E-3 also shows the links in the immediate project vicinity that have selected for fair share calculations. The model network, with updates for the PA 30 & 51 backbone infrastructure is included on Exhibit E-4.

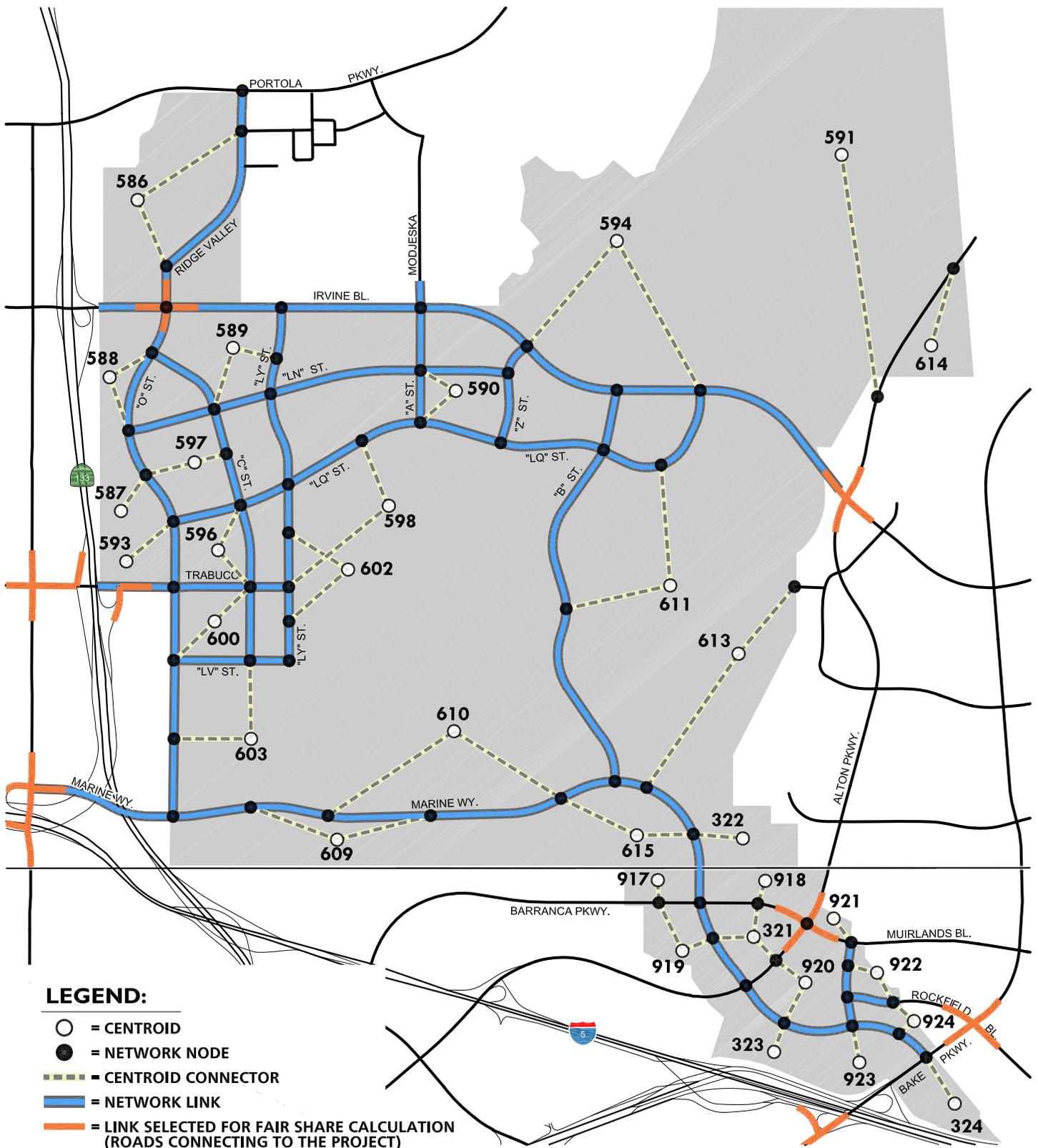
PA_s 30 AND 51 FUTURE DEVELOPMENT AREAS WITH TAZ_s USED IN NITM FAIR SHARE MODELING



P2030 NITM STARTING POINT ROADWAY NETWORK PLOT (FAIR SHARE MODELING)



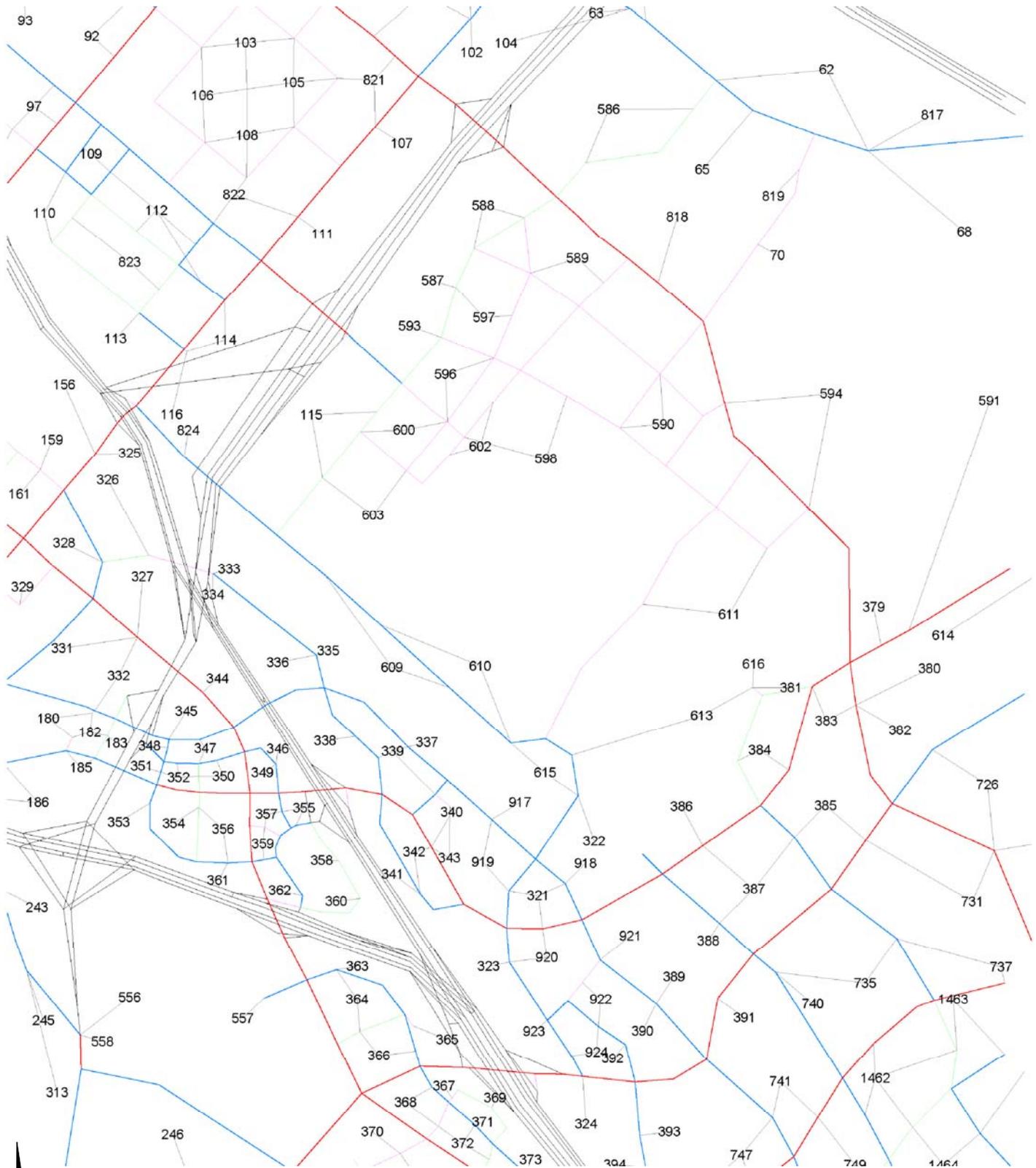
P2030 PROJECT ROADWAY CONFIGURATION (FAIR SHARE MODELING)



LEGEND:

- = CENTROID
- = NETWORK NODE
- - - = CENTROID CONNECTOR
- = NETWORK LINK
- (orange) = LINK SELECTED FOR FAIR SHARE CALCULATION (ROADS CONNECTING TO THE PROJECT)

P2030 NITM MODIFIED ON-SITE ROADWAY NETWORK PLOT (FAIR SHARE MODELING)



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APPENDIX F

Methodology for Adjusting the Fully-Funded Cost Shares of PA 40 and OCGP

Appendix F

Methodology for Adjusting the Fully-Funded Cost Shares of PA 40 and OCGP

After the NITM 5-Year was prepared in 2010, both PA 40 and Great Park Neighborhoods (GPN) processed General Plan Amendment / Zone Changes which required NITM Re-Allocation Studies. In order to calculate the fully funded shares associated with both Re-Allocation Studies a methodology was created. This methodology involves analyzing the relationship between the fully funded shares based on the GPN GPA/ZC, the PA 40 GPA/ZC, and the fully funded shares based on the PA 40 Re-Allocation Plan (which held the Northern Sphere and OCGP shares at the 5-Year levels). Tables D-4, D-5, and D-5A summarize those shares updated to 2012 based on the Caltrans CCI. Table D-6 summarizes the adjustments made to PA 40 and OCGP fully funded share. The fully funded shares in Table 4-2 of the report are the result of this analysis. Below is a summary of the analysis:

Table D-4: Allocation of Costs based on the GPN 2011 GPA/ZC (2012 costs)

Table D-5: Allocation of Costs based on PA 40 GPA/ZC (2012 costs) – This is a 2012 update to Table 3-4 of the PA 40 GPA/ZC Re-Allocation Plan.

Table D-5A: Allocation of Costs based on PA 40 GPA/ZC Scenario 3 – This table includes Fully Funded Improvements only.

Table D-6: Fully-Funded Share Adjustments for PA 40 and OCGP.

Table D-6 is calculated as follows:

1. Calculate the difference between (1) the PA 40 GPA/ZC total OCGP allocation for Fully-Funded improvements, and (2) the GPN 2011 GPA/ZC OCGP allocation (Table D-5A FF total minus Table D-4 FF total). This value is the amount that the PA 40 GPA/ZC Re-Allocation obligation will be reduced as a result of the GPN 2011 GPA/ZC.
 - i. $\$90,361,624(D-5A) - \$86,007,655(D-4) = \$4,353,969$
2. Calculate the proportionate share of this delta for each Improvement for PA 40. This represents the proportionate share decrease and is calculated for each fully-funded improvement.
 - i. For example: PA 40's share of the cost of Intersection 34 is $\$12,460(D-5)$.
 $(\$12,460 / \$42,360,301(D-5)) \times \$4,353,969 = \$1,281.$

3. Subtract that share from the PA 40 GPA/ZC allocation for each fully-funded improvement. This becomes the new PA 40 obligation for each fully-funded improvement location.
 - i. Continuing with intersection 34 as an example.

$$\$12,460(D-5) - \$1,281 = \$11,179.$$
4. Calculate the new PA 40 % Share allocation for each fully-funded improvement.
 - i. Total 2012 cost of Intersection 34 improvements is \$171,165.

$$\$11,179 / \$171,165 = 6.53\%$$
5. Freeze the Northern Sphere % Share allocation since these FDA's have not been the subject of a GPA/ZC that affects fees since the 5-Year Study was prepared.
 - i. The PA 40 GPA/ZC Northern Sphere share of Int 34 is 63.42%(D-5)
6. Subtract the revised PA 40 allocation and Northern Sphere allocation from the total allocation to calculate the revised total OCGP allocation
 - i. $100\% - 63.42\% - 6.53\% = 30.05\%$
7. Distribute the revised OCGP allocation over GP I, GP II, GP III, and GP IV based on the share proportions calculated for the GPN 2011 PA 30 & 51 GPA/ZC (Table D-4). The proportions from Table 1 are used since those shares represent the changes associated with the GPN 2011 GPA/ZC.
 - i. For Int 34, from Table D-4, the OCGP allocations for GPI, GPII, GPIII, and GPIV are 10.98%, 9.60%, 1.41%, and 0.47%, respectively. The share of the total OCGP allocation for each FDA is 48.89% for GPI, 42.74% for GPII, 6.28% for GPIII, and 2.09% for GPIV.
 - ii. Dividing 30.05% based on these proportions yields 14.69% for GPI, 12.84% for GPII, 1.89% for GPIII, and 0.63% for GPIV. These shares now become the new OCGP fully-funded shares.

APPENDIX G

Approved Scope of Work

**PLANNING AREA 30 AND 51 2011 GPA/ZC
NITM PROGRAM FEE RE-ALLOCATION STUDY**

**Scope of Work
4.20.12**

The following is a scope of services proposed by Urban Crossroads, Inc. (UC) to prepare a North Irvine Transportation Mitigation (NITM) Program fee reallocation study based on the General Plan Amendment/Zone Change (GPA/ZC) that was approved for the Great Park Neighborhoods in September 2011. The Fee Re-Allocation study outlined here is intended to satisfy the Great Park Neighborhoods GPA/ZC traffic study scope of work requirement that a NITM fee re-allocation be performed in conjunction with the GPA/ZC project approval. The proposed scope of services for the NITM fee reallocation study is comprised of four work tasks, which are described below.

Task 1: Review List of NITM Improvements

In this work task, the List of NITM Improvements will be reviewed based on current traffic projections in the Irvine Transportation Analysis Model, version 8.4-10 (ITAM 8.4-10), which includes the Great Park Neighborhoods GPA/ZC development plan. For each horizon year (2015, 2030 and Post-2030), AM and PM peak hour levels of service without the NITM improvements will be calculated for each roadway, intersection, freeway/tollway ramp and freeway mainline improvement location included in the List of NITM Improvements that resulted from the City's recently completed PA40 GPA/ZC NITM Program Fee Re-Allocation study. As required by the City's NITM Ordinance, the levels of service for the NITM improvement locations will be calculated using the same performance criteria that were applied in the 2003 NITM Program Nexus Study. The criteria include specifications for calculating average daily traffic (ADT) and peak hour volume/capacity (V/C) ratios for roadway segments, peak hour intersection capacity utilization (ICU) values for intersection locations, and peak hour V/C ratios for freeway/tollway ramps and mainline segments.

The purpose of this level of service (LOS) review will be to identify whether any NITM Program improvements in the NITM Program as updated through the PA40 GPA/ZC NITM Program Fee Re-Allocation study are no longer needed or alternate improvements are appropriate based on the current ITAM 8.4-10 traffic forecasts. In addition, the LOS review will determine the implementation time frame of the needed NITM improvements and will update them accordingly. For consistency

with previous studies, the same criteria will be used for determining whether improvements can be suggested for deletion from the NITM program as was used in the 5-Year Study and the PA 40 Re-Allocation Study. That criteria is as follows:

A given NITM improvement can be considered a candidate for removal from the List of NITM Improvements if the future peak hour levels of service are as follows:

- LOS C or better at fully funded NITM locations;
- LOS C or better for NITM locations within the City of Irvine;
- LOS D or better for fair share funded NITM improvements.

Task 2: Traffic Share Calculations and Re-Allocation of Improvement Costs

In this work task, traffic shares for the circulation system improvement locations that are included in the updated List of NITM Improvements from Task 1 will be calculated and then used to recalculate NITM Fees for the NITM Future Development Areas. Per the requirements of the NITM Ordinance, the traffic shares for each NITM improvement location will be determined based on ITAM ADT select link analysis procedures using the same Post-2025 version of ITAM that was originally applied in the April 30, 2003 NITM Program Nexus Study, which has been subsequently updated for application in the PA 1/9 Re-Allocation Study, the NITM Program Five-Year Review and the PA40 GPA/ZC NITM Program Fee Re-Allocation Study. For calculating the ADT select link-based traffic shares for this study, the only changes that will be made to the Post-2025 ITAM model that was applied for traffic shares in the PA40 GPA/ZC NITM Program Fee Re-Allocation study will be to replace the Great Park Neighborhoods land use and on-site circulation system with the approved Great Park Neighborhoods GPA/ZC development plan. All land use and circulation system assumptions outside of the NITM Future Development Areas will be unchanged from the April 20, 2003 NITM Program Nexus Study.

The resulting traffic shares will serve as the basis for allocating the proportional improvement costs for the NITM improvements to the NITM Future Development Areas, which in turn will provide the overall allocated costs that will be used to recalculate the NITM Fees for each of the NITM Future Development Areas.

In this study, NITM improvement costs will be updated for 2010, 2011 and 2012. NITM Fees will be updated for 2011 and 2012, if the first quarter 2012 CCI is available, and presented as follows:

- **Step 1 – Update 2010 Improvement Costs:** The 2010 Improvement Costs for the List of NITM Improvements from the PA 40 Fee Re-Allocation Study will be updated based on the corrected Caltrans Construction Index (CCI) published 10/25/10.
- **Step 2 – Update NITM Fees for 2011:** The Improvement Costs calculated in Step 1 will be updated based on the 2011 CCI and 2011 right-of-way costs according to the NITM Ordinance and then allocated to the NITM Future Development Areas (FDAs) using the Post-2025 ITAM traffic shares from the PA 40/12 Fee Re-Allocation Study. The resulting data establishes the 2011 update to the NITM FDA Fees and assumes no 2011 Great Park Neighborhoods GPA/ZC.
- **Step 3 – Re-Allocate 2011 Improvement Costs and Update NITM Fees:** The updated improvement costs calculated in Step 2 for the List of NITM improvements from the PA 40 Fee Re-Allocation Study, excluding any improvements identified in Task 1 as no longer being necessary, will be allocated to the NITM FDAs using the Post-2025 ITAM traffic shares that assume the Great Park Neighborhoods GPA/ZC land use revisions. Per the NITM requirement for fee updates associated with NITM (FDA) GPA/ZC's, the fair share allocation to any FDA other than the FDA(s) requesting the GPA/ZC (Planning Area 30 and 51) will not exceed the NITM fees established by the last update (NITM PA 40 GPA/ZC Fee Re-Allocation study).
- **Step 4 – Update NITM Fees for 2012:** The improvement costs and fees calculated in Steps 2 and 3 will be updated based on the 2012 CCI and 2012 right-of-way costs according to the NITM Ordinance and then allocated to the NITM FDAs using the Post-2025 ITAM traffic shares from this re-allocation study. These 2012 allocations will become effective on July 1, 2012, per the NITM ordinance.

Task 3: Prepare NITM Fee Reallocation Study Report

This work task involves the preparation of a NITM Fee Re-allocation technical report that summarizes the results of Tasks 1 and 2. A final screencheck draft version of the report will be provided for review by the NITM Advisory Committee, comments will be addressed, and then a final report will be prepared for approval by the Director of Public Works.

**ITEM 4: HERITAGE FIELDS GP I FEE CREDIT AND
NITM FEE ALLOCATION PLAN AGREEMENT**

Heritage Fields GP I Fee Credit and NITM Fee Allocation Plan Agreement

THIS Heritage Fields GP I Fee Credit and NITM Fee Allocation Plan Agreement ("*Agreement*") is entered into as of May____, 2013 ("*Effective Date*"), by and between Heritage Fields El Toro, LLC, a Delaware limited liability company ("*Heritage Fields*"), and the CITY OF IRVINE, a California municipal corporation ("*City*"). City and Heritage Fields are sometimes referred to herein individually as a "*party*" and collectively as the "*parties*."

RECITALS

- A. Heritage Fields is the developer of land located within Future Development Area GP I as described in the North Irvine Transportation Ordinance and Program, City Ordinance No. 03-20 adopted by City on May 27, 2003 (the "*NITM Ordinance*"). A depiction of the GP I is attached hereto as **Exhibit A.**
- B. The NITM Ordinance requires the payment of Fees ("*NITM Fees*") for transportation improvements installed in connection with Heritage Fields' development of land within the northern portion of the City of Irvine, including in connection with its development within GP I.
- C. On December 23, 2010, the City of Irvine ("City") approved the PA 30 and 51 Amended MSM/VTTM 17008 NITM Fee Allocation Plan, dated December 23, 2010 (the "*Original Plan*").
- D. On August 30, 2011, City adopted a General Plan Amendment pursuant to Resolution No. 11-98 ("*2011 General Plan Amendment*") and a Zone Change pursuant to Ordinance No. 11-12 ("*2011 Zone Change*") that modified the proposed land uses for PAs 30 and 51. Pursuant to Resolution 11-3109, City also adopted the Second Amendment to MSM/VTTM 17008 on September 13, 2011. As required by the NITM Ordinance, on May __, 2013, the City approved an update to the Original Plan for GP I only, entitled GP I NITM Fee Allocation Plan, dated April 2013 (the "*GP I NITM Fee Allocation Plan*") and attached hereto as **Exhibit B.**
- E. On August 18, 2011, City adopted VTTM 17364 pursuant to Resolution No. 11-3119 and VTTM 17368 pursuant to Resolution No. 11-3113. Pursuant to Resolution 11-3111, the City also adopted the Amended VTTM 17283 on September 13, 2011. These maps are subsequent to Second Amended MSM/VTTM 17008.
- F. To satisfy the requirements of the NITM Ordinance with respect to its development within GP I, Heritage Fields must submit to City a NITM Parcel Fee Schedule (the "Heritage Fields GP I NITM Parcel Fee Schedule") and enter into an agreement with the City to pay the Total TTM NITM fees in accordance with a per-unit payment schedule based upon the proposed development within the TTM to identify how Heritage Fields will satisfy its overall GP I NITM Fee obligations for the development of GP I (the "Total Future Development Area GP I NITM Fees").
- G. In accordance with the requirements of the NITM Ordinance, City previously completed its "Five-Year Review" of the NITM Program pursuant to the NITM 5 Year Update dated June 22, 2010 (the "*2010 NITM 5-Year Update*"), which establishes the Total Future Development Area GP I NITM Fees based on a development plan for GP I that assumed certain land uses. However, these land uses have been changed based on the 2011 General Plan Amendment and 2011 Zone Change.
- H. In accordance with the requirements of the NITM Ordinance, The Irvine Company completed its PA 40 GPA/ZC NITM Program Fee Re-Allocation Study dated March 2011, which establishes the Total Future Development Area GP I NITM Fees based on a development plan for GP I that assumed certain land uses. However, these land uses have been changed based on the 2011 General Plan Amendment and 2011 Zone Change.

- I. In view of the change in proposed land uses within Planning Areas 30 and 51 pursuant to the 2011 General Plan Amendment and 2011 Zone Change, and in accordance with the requirements of the NITM Ordinance, Heritage Fields prepared and City approved a NITM Fee Re-Allocation Study for Planning Areas 30 and 51 dated April 2013 (the "*PA 30 and 51 NITM Fee Re-Allocation Study*") to revise the Total Future Development Area GP I NITM Fees payable in connection with development of the PAs 30 and 51.
- J. Among the transportation improvements contemplated to be constructed under the NITM Ordinance (which are described on the "List of NITM Improvements" as such term is defined in the NITM Ordinance and referred to in this Agreement in the same manner) is the future Trabuco Road/State Route 133 Interchange (the "Trabuco Interchange"), which is currently listed as a circulation improvement in the Circulation Element of City's General Plan. Subject to Caltrans approval, the final determination as to whether the Trabuco Interchange will be constructed will be made by City.
- K. The parties desire to enter into this Agreement to identify how Heritage Fields will satisfy its NITM obligation to GP I and to establish their respective obligations in the event City elects not to proceed with construction of the Trabuco Interchange, and with respect to other related matters.
- L. In accordance with the Scope of Work stated in City Council Resolution No. 03-61 for the NITM Future Development Area Fee Allocation Plan, the NITM fees are subject to annual inflation escalator.

AGREEMENT

NOW, THEREFORE, in consideration of the above recitals and the mutual covenants set forth below, City and Heritage Fields agree as follows:

1. NITM Fees Payable for GP I Development. Pursuant to the approved *PA 30 and 51 NITM Fee Re-Allocation Study*, the NITM Fees payable in connection with the development within GP I shall be as specified in the GP I NITM Fee Parcel Fee Schedule, attached hereto as *Exhibit C*.
2. Method of Payment. The Heritage Fields NITM fee obligation of GPI will be met by a combination of cash payments, potential NITM fee credits for NITM Intersection Ridge Valley Street and Irvine Blvd (#558, formerly #557), and/or potential credits for the Trabuco/SR-133 Interchange fee previously paid by Heritage Fields. The District 8 NITM fee obligation for all the lots in Builder Areas 800 through 810 and 870 will be paid by Heritage Fields within 3 business days after this Agreement has been executed by Heritage Fields and the City (inclusive of model lots associated with each Builder Area) in accordance with the Total NITM Fees identified for each Builder Area as shown on Exhibit C. For cash payments for the NITM fee obligations for the remainder of GP I, NITM fees will be paid by Heritage Fields to the City at any time prior to issuance of building permits on a per-dwelling unit, per-square foot, or per-acre fee basis (as applicable), except for NITM fees paid for the K-8 School. The fees for the K-8 School will be paid in a lump sum in the amount designated on Exhibit C prior to issuance of building permit.
3. Trabuco Interchange Fees. GP I NITM Fees have been separated into Trabuco Interchange Fees and Non-Trabuco Interchange Fees. The City shall maintain a separate accounting of the NITM fees received for the Trabuco Interchange for GP I.
4. Effect of Removal of the Trabuco Interchange from General Plan or List of NITM Improvements. If either of the following events occurs: (a) the City Council approves an amendment to its General Plan deleting the Trabuco Interchange from the Circulation Element of its General Plan, or (b) City removes the Trabuco Interchange from the List of NITM Improvements, then the Trabuco Interchange Fees collected from Heritage Fields for GP I will be applied as credits to any NITM obligation within GP I, GP II, GP III, and/or GP IV not yet paid as elected by Heritage Fields. If alternative improvements are identified in accordance with NITM Ordinance Section 6-3-706.F

and adopted as part of a NITM Study to remove the Tabuco Interchange, then those credits would first be applied toward the Heritage Fields fair share of those identified improvements. If such credits are no longer necessary to fulfill all of the outstanding Heritage Fields NITM Fee obligations, those NITM Fees can be applied by Heritage Fields and the City to mutually acceptable project specific transportation improvements.

5. Disputes. In the event of any dispute arising under this Agreement, the injured party shall notify the injuring party in writing of the injured party's contentions by submitting a claim to the other party by written notice sent in accordance with Section 10 below. The injured party shall continue performing its obligations hereunder so long as the injuring party commences to cure such default within thirty (30) days of service of such notice. Compliance with the provisions of this Section shall be a condition precedent to (a) termination of the Agreement for cause and (b) any legal action; provided, however, that such compliance shall not be a waiver of either party's right to take legal action in the event that the dispute is not cured.

6. Notice to Heritage Fields Regarding California Labor Code. Heritage Fields acknowledges and agrees that City is not by this Agreement affirmatively representing, and has not previously affirmatively represented, to Heritage Fields or any contractors retained by Heritage Fields in connection with its development of GP I, that any work to be undertaken in the implementation of the GP I development is *not* a "public work" as such term is defined in Section 1720 of the California Labor Code. Heritage Fields agrees that it shall comply with all applicable requirements of the California Labor Code in connection with its development of public works in GP I.

7. Waiver. No delay or omission in the exercise of any right or remedy of a non-defaulting party regarding any default by the other party shall impair such right or remedy or be construed as a waiver. A party's consent or approval of any act by the other party requiring consent or approval shall not be deemed to waive or render unnecessary said party's consent to or approval of any subsequent act of the other party. Any waiver by either party of any default must be in writing and shall not be a waiver of any other default concerning the same or any other provision of this Agreement.

8. Legal Action and Remedies. The sole and exclusive remedies available to either party under this Agreement are limited to: (a) cure or correct any default by the other party; (b) compel specific performance of this Agreement; or (c) obtain or declaratory injunctive relief. Consistent with the foregoing, each party covenants to the other, on behalf of itself and its successors and assigns, not to sue the other party, or its successors and assigns, for damages or monetary relief for any breach of this Agreement or arising out of or connected with any dispute, controversy or issue regarding the application, interpretation or effect of this Agreement.

9. Attorney's Fees. In any judicial proceeding between the City and Heritage Fields seeking enforcement of any of the terms and provisions of this Agreement (an "*Action*") the prevailing party in such Action shall recover all of its actual and reasonable costs and expenses (whether or not the same would be recoverable pursuant to Code of Civil Procedure Section 1033.5 or Civil Code Section 1717 in the absence of this Agreement), including expert witness fees and attorney's fees. The right to recover such costs and expenses shall accrue upon commencement of the Action, regardless of whether the action is prosecuted to final judgment or decision.

10. Notices. Any notice, demand, request, consent, approval or communication under this Agreement shall be in writing and either served personally or sent by prepaid, first-class mail to the address set forth below. Either party may change its address by notifying the other party of the change of address in writing. Notice shall be deemed given (a) upon personal delivery or (b) forty-eight (48) hours from deposit of such notice in the United States mail, postage prepaid.

To City:

City of Irvine
P.O. Box 19575
Irvine, CA 92623-9575
Attention: Director of Public Works

To Heritage Fields:

Heritage Fields El Toro, LLC
c/o Five Point Communities Management, Inc.
25 Enterprise, Suite 400
Aliso Viejo, CA 92656

11. Successors in Interest. This Agreement and the provisions contained herein shall be binding upon and inure to the benefit of City, Heritage Fields, and their respective successors and assigns.
12. Governing Law and Venue. This Agreement shall be governed by and construed and enforced in accordance with the laws of the State of California. Any action at law or in equity arising under this Agreement or brought by any party hereto for the purpose of enforcing, construing or determining the validity of any provision of this Agreement shall be filed and tried in the Superior Court of the County of Orange, State of California, and the parties hereto waive all provisions of law providing for the removal or change of venue to any other court.
13. Amendment. This Agreement may be amended at any time by the mutual consent of the parties by a written instrument signed by the Director of Public Works and Heritage Fields.
14. Authority. The persons executing this Agreement on behalf of the parties hereto warrant that they are duly authorized to execute this Agreement on behalf of said parties and that by so executing this Agreement, the parties hereto are formally bound to the provisions of this Agreement.
15. Severability. Each term, covenant, condition or provision of this Agreement is intended to be severable. If any term, covenant, condition or provision contained in this Agreement is held to be invalid, void or illegal by any court of competent jurisdiction, such provision shall be deemed severable from the remainder of this Agreement and shall in no way affect, impair or invalidate any other term, covenant, condition or provision contained in this Agreement. If such term, covenant, condition or provision shall be deemed invalid due to its scope or breadth, such covenant, condition or other provision shall be deemed valid to the extent of the scope or breadth permitted by law.
16. Interpretation. The paragraph headings of this Agreement are for reference and convenience only, are not made part of this Agreement and shall have no effect upon the construction or interpretation of any part hereof. The provisions of this Agreement shall be construed in a reasonable manner to implement the purposes of the parties and of this Agreement. This Agreement shall be construed as if drafted jointly by City and Heritage Fields.
17. Entire Agreement. This Agreement, together with Exhibits A-C and the NITM Ordinance referenced in the Recitals to this Agreement, represents the entire understanding of City and Heritage Fields as to the matters contained herein, and no prior oral or written understanding shall be of any force or effect with respect to the matters covered in this Agreement.

[Signature Page Follows]

[Signature Page to Agreement]

IN WITNESS WHEREOF, City and Heritage Fields have caused this Agreement to be executed by their respective duly authorized officers and representatives as of the date first set forth above.

HERITAGE FIELDS EL TORO, LLC,
a Delaware limited liability company

By: Heritage Fields El Toro Sole Member LLC,
a Delaware limited liability company
Its: Sole Member

By: Heritage Fields LLC,
a Delaware limited liability company
Its: Sole Member

By: Lennar Heritage Fields, LLC,
a California limited liability company
Its: Administrative Member

By: Lennar Homes of California, Inc.,
a California corporation
Its: Sole Member

By: _____

Print Name: _____

Print Title: _____

City of Irvine
a California municipal corporation

By: _____

Print Name: Manuel Gomez

Print Title: Director of Public Works

ATTEST:

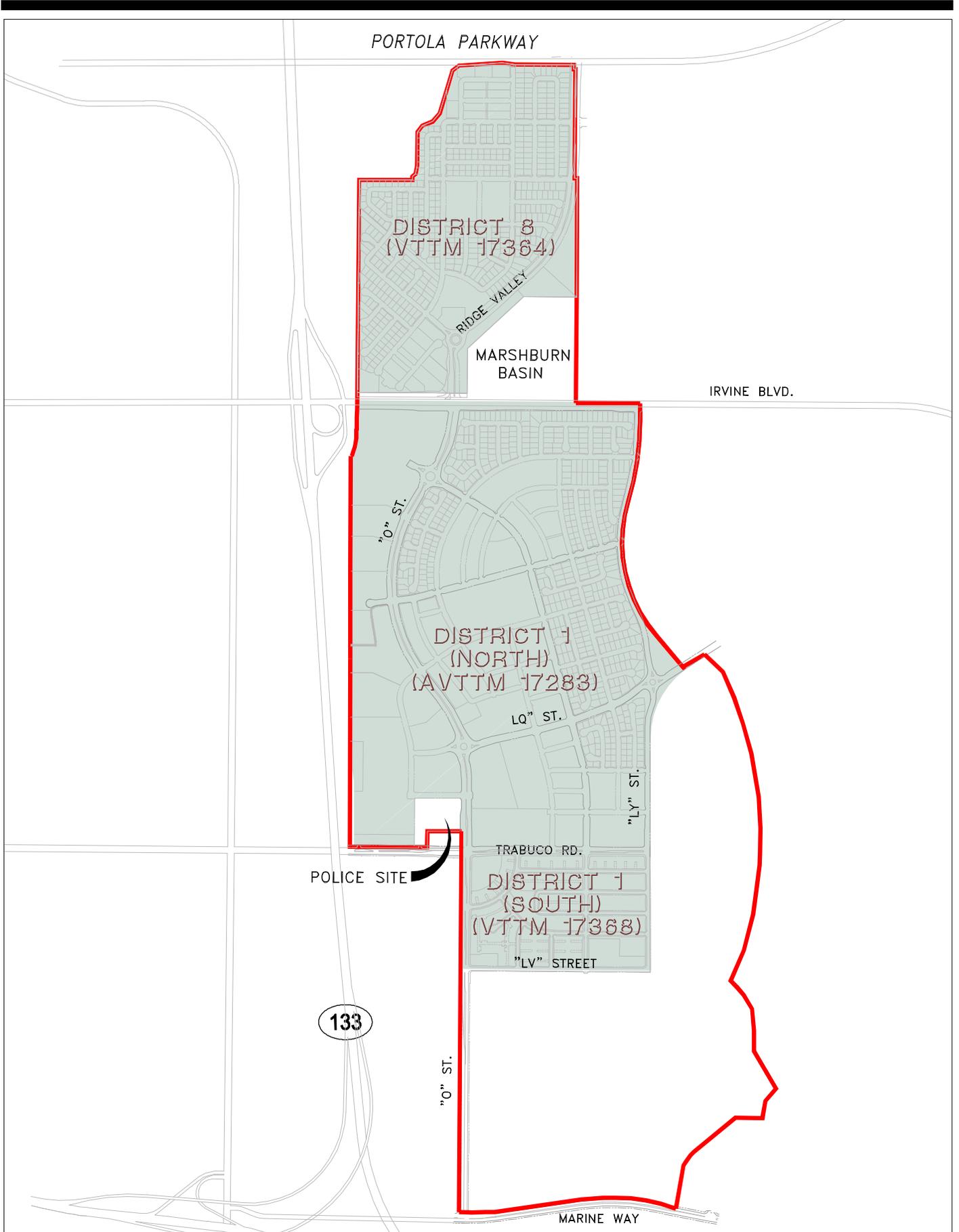
City Clerk

APPROVED AS TO FORM:

City Attorney

EXHIBIT "A"

FUTURE DEVELOPMENT AREA GP I



LEGEND:

- FUTURE DEVELOPMENT AREA BOUNDARY
- HERITAGE FIELDS PROPERTY



Exhibit "B" - FEE ALLOCATION PLAN

Future Development Area: GP I⁽⁴⁾

Future Development Area Fee: \$58,878,085

Amended VTTM					Trabuco/SR-133	Non-Trabuco/SR-133		
17008 LOT #	TAZ	ADT	%		Interchange Imp. Fee	Interchange Imp. Fee	TOTAL	
HERITAGE FIELDS OBLIGATION	42	966, 969	801	1.8%		\$892,226	\$169,487	\$1,061,713
	43	604, 605, 967, 968	2,267	5.1%		\$2,525,318	\$479,708	\$3,005,026
	44	600, 601, 963, 964	10,730	24.2%		\$11,955,026	\$2,270,971	\$14,225,997
	46	959, 602	3,426	7.7%		\$3,817,553	\$725,180	\$4,542,733
	47	603, 589	4,351	9.8%		\$4,848,025	\$920,928	\$5,768,953
	48	587, 588	5,648	12.7%		\$6,292,789	\$1,195,375	\$7,488,164
	49	958, 965	1,951	4.4%		\$2,173,676	\$412,910	\$2,586,586
	50	958	0	0.0%		\$0	\$0	\$0
	51	954, 956	1,459	3.3%		\$1,625,728	\$308,822	\$1,934,550
	52	956	0	0.0%		\$0	\$0	\$0
	53	947, 943	536	1.2%		\$597,473	\$113,495	\$710,968
	54	945, 946	949	2.1%		\$1,057,702	\$200,921	\$1,258,623
	55	940, 941	1,385	3.1%		\$1,543,279	\$293,161	\$1,836,440
	56	941, 943	1,330	3.0%		\$1,481,376	\$281,401	\$1,762,777
	57	937, 939, 941	1,178	2.7%		\$1,312,334	\$249,291	\$1,561,625
	58	586, 938, 940	607	1.4%		\$675,754	\$128,366	\$804,120
	59	944	374	0.8%		\$416,342	\$79,089	\$495,431
	61	597, 598	980	2.2%		\$1,091,384	\$207,318	\$1,298,702
	62	953, 955, 598	2,136	4.8%		\$2,379,752	\$452,057	\$2,831,809
	63	596, 952	1,398	3.1%		\$1,557,674	\$295,895	\$1,853,569
	64	590, 949, 951	1,647	3.7%		\$1,835,180	\$348,610	\$2,183,790
	65	948, 950	1,257	2.8%		\$1,400,476	\$266,034	\$1,666,510
	66	991	0			(2)		
		Port. of L	931, 993, 994, 995, 991,992, 933, 996	9,754		(2)		
	Other(3)	Marshburn Basin	595	5	-	\$0	\$0	\$0
		45	962	-		(5)		
		54,168	100.0%		\$49,479,068	\$9,399,017	\$58,878,085 ⁽¹⁾	

LEGEND:

TAZ:

Traffic Analysis Zone (per the Great Park Neighborhoods GPA/ZC and VTTM 17008 Amendment Traffic Impact Analysis by Urban Crossroads dated May 27, 2011)

ADT:

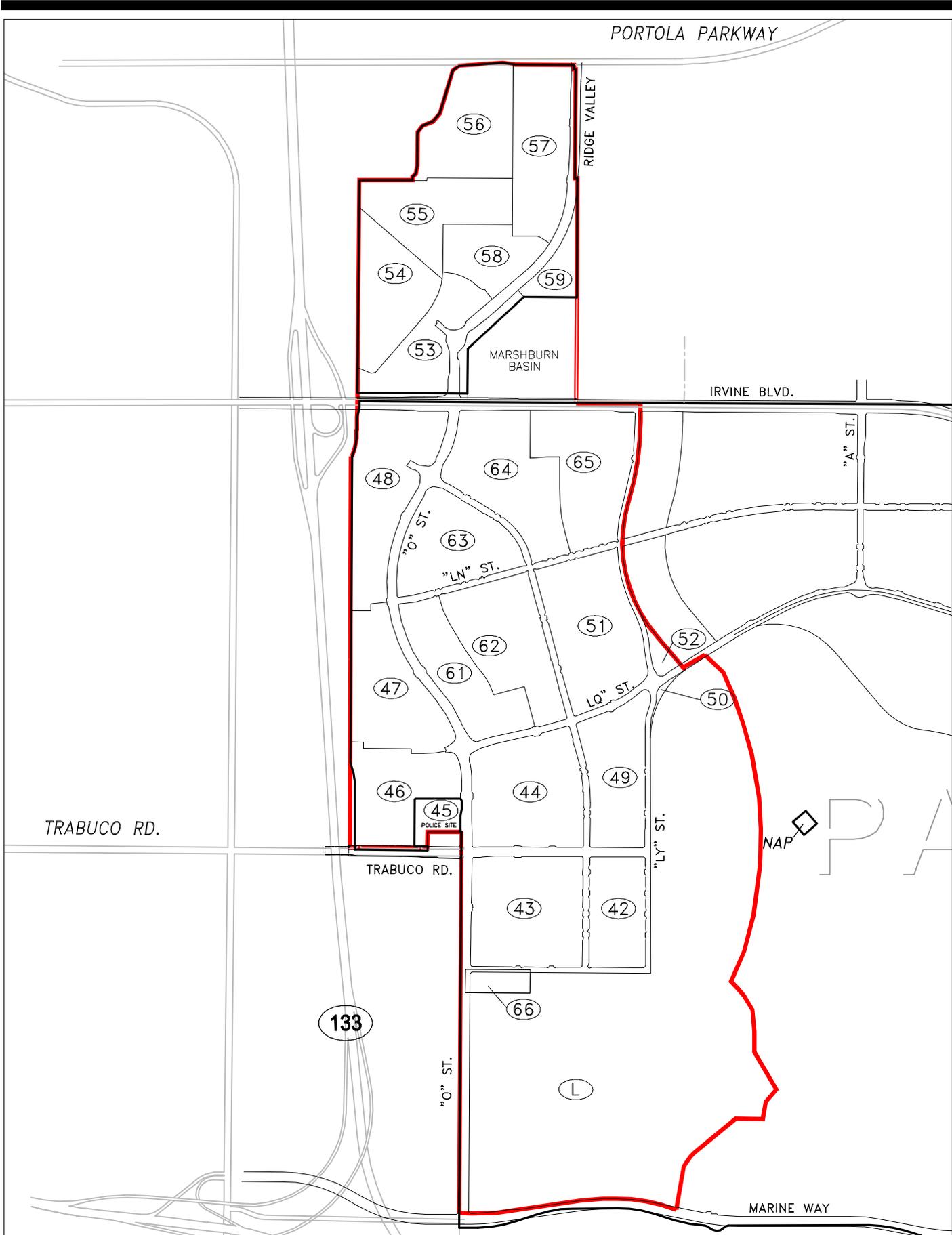
Average Daily Trips (Estimated consistent with assumed land use per the Great Park Neighborhoods GPA/ZC and VTTM 17008 Amendment Traffic Impact Analysis by Urban Crossroads dated May 27, 2011)

NOTES:

- (1) Total NITM Fees are based on the Great Park Neighborhoods 2011 GPA/ZC NITM Fee Re-Allocation Study . Total NITM fee obligation reflected is subject to adjustment as noted in the NITM Ordinance.
- (2) In accordance with the ARDA, no NITM fees are imposed upon (1) PIA 19, (ii) PIA 37, (iii) PIA 44, and (iv) the Great Park Property, excepting that portion of the Great Park Property that is the Police Site and the ARDA Transfer Site. The fees associated with these parcels conveyed to the City, excepting that portion of the Great Park Property that is the Police Site and the ARDA Transfer Site, have been allocated to the remaining Heritage Fields parcels within the respective Future Development Area.
- (3) Fees for these parcels do not include any of the fees mentioned in Note (2) above.
- (4) See Figure 'A' for Amended VTTM 17008 and Future Development Area GPI Limits
- (5) Intensity has not been allocated to the Police Site and the ARDA Transfer Site by the City. NITM fees for the Police Site in GPI will be calculated on a cost per trip basis and paid in accordance with Section 9.1 of the ARDA based upon an approved specific use. Absent a definitive land use and intensity, fees associated with the Police Site have been allocated to the Heritage Fields share of GPI. Once the actual land use and intensity for the Police Site have been approved and fees calculated, the Heritage Fields fees will be adjusted accordingly. If all the Heritage Fields NITM fees for GPI have already been paid prior to an approved land use on the Police Site, then NITM Fees paid for the Police Site will be applied as credits to any unpaid Heritage Fields NITM obligation within GP II, GP III, or GP IV. If such credits are no longer necessary to fulfill all of the outstanding Heritage Fields NITM Fee obligations, those NITM Fees can be applied by Heritage Fields to project specific transportation improvements.

FIGURE "A"

FUTURE DEVELOPMENT AREA GP I



LEGEND:

-  FUTURE DEVELOPMENT AREA BOUNDARY
-  2ND AMENDED VTTM 17008 LOT NUMBER



EXHIBIT "C"

PARCEL FEE SCHEDULE - DISTRICT 8

PORTOLA PARKWAY



LEGEND:

- FINAL MAP TRACT BOUNDARY
- 2ND AVTTM 17008 LOT LINE
- 44 2ND AVTTM 17008 LOT NUMBER
- 53 FINAL MAP LOT NUMBER
- 810 BUILDER AREA



Exhibit "C" - Parcel Fee Schedule District 8

Fee Allocation Parcel Fee Schedule								
Plan Lot (2nd VTTM 17008)	Builder Area	Final Map	Lots	LAND USE	Trabuco		TOTAL	
					Interchange	Non-Trabuco		
53-58	800	17364	1-48	SFD (48 DU)	\$470,089.86	\$89,298.08	\$559,387.94	
		17467	16-19	Models (4 DU)	\$39,174.15	\$7,441.51	\$46,615.66	
		Total				\$509,264.01	\$96,739.59	\$606,003.60
	801	17479	1-13	Multi Family Units (79 DU)	\$629,337.92	\$119,548.78	\$748,886.70	
		17467	5-8	Models (4 DU)	\$39,174.15	\$7,441.51	\$46,615.66	
		Total				\$668,512.08	\$126,990.28	\$795,502.36
	802	17478	1-45	SFD (45 DU)	\$440,709.24	\$83,716.95	\$524,426.19	
		17467	12-15	Models (4 DU)	\$39,174.15	\$7,441.51	\$46,615.66	
		Total				\$479,883.40	\$91,158.46	\$571,041.85
	803	17477	1-64	SFD (64 DU)	\$626,786.48	\$119,064.10	\$745,850.58	
		17467	9-11	Models (3 DU)	\$29,380.62	\$5,581.13	\$34,961.75	
		Total				\$656,167.09	\$124,645.23	\$780,812.33
	804	17476	1-23	SFD (23 DU)	\$225,251.39	\$42,788.66	\$268,040.05	
		Total				\$225,251.39	\$42,788.66	\$268,040.05
		805	17475	1-41	SFD (41 DU)	\$401,535.09	\$76,275.44	\$477,810.53
	17467		1-4	Models (4 DU)	\$39,174.15	\$7,441.51	\$46,615.66	
	Total				\$440,709.24	\$83,716.95	\$524,426.19	
	806	17473	1-83	SFD (83 DU)	\$812,863.71	\$154,411.26	\$967,274.97	
		Total				\$812,863.71	\$154,411.26	\$967,274.97
		807	17472	1-61	SFD (61 DU)	\$597,405.86	\$113,482.97	\$710,888.83
	Total				\$597,405.86	\$113,482.97	\$710,888.83	
	808		17471	1-46	SFD (46 DU)	\$450,502.78	\$85,577.33	\$536,080.10
		Total				\$450,502.78	\$85,577.33	\$536,080.10
		809	17470	1-54	SFD (54 DU)	\$528,851.09	\$100,460.34	\$629,311.43
	Total				\$528,851.09	\$100,460.34	\$629,311.43	
	810		17469	1-11	Multi Family Units (75 DU)	\$597,472.71	\$113,495.67	\$710,968.38
		Total				\$597,472.71	\$113,495.67	\$710,969.38
		870	17474	1-2	Multi Family Units (88 DU)	\$701,034.65	\$133,168.26	\$834,202.90
Total					\$701,034.65	\$133,168.26	\$834,202.90	
TOTAL					\$6,667,918.00	\$1,266,635.00	\$7,934,553.00	

Fee Allocation Parcel Fee Schedule							
Plan Lot (2nd VTTM 17008)	Lot (VTTM 17364)	Lot (Final)	Final Map	LAND USE	Trabuco		TOTAL
					Interchange	Non-Trabuco	
59	512	22	17467	15 TSF Church and 6 TSF Child Care	\$416,342.00	\$79,089.00	\$495,431.00
	513	23	17469				
TOTAL					\$416,342.00	\$79,089.00	\$495,431.00

EXHIBIT "C"

PARCEL FEE SCHEDULE - DISTRICT 1 NORTH



LEGEND:

- 2ND AVTTM 17008 LOT LINE
- 44 2ND AVTTM 17008 LOT NUMBER
- AVTTM 17283 LOT NUMBER



Exhibit "C" - Parcel Fee Schedule District 1 North

Fee Allocation Plan Lot (2nd VTTM 17008)	Parcel Fee Schedule Lot (AVTTM 17283)	LAND USE	Trabuco		TOTAL
			Interchange	Non-Trabuco	
44	500	Inst (34.3 TSF)	\$539,609.54	\$102,503.97	\$642,113.51
	501	Multi Family Units (24 DU)	\$191,191.28	\$36,318.60	\$227,509.89
	502	Multi Family Units (24 DU)	\$191,191.28	\$36,318.60	\$227,509.89
	503	Multi Family Units (24 DU)	\$191,191.28	\$36,318.60	\$227,509.89
	504	Multi Family Units (24 DU)	\$191,191.28	\$36,318.60	\$227,509.89
	526	Retail (150 TSF)	\$9,145,093.51	\$1,737,197.57	\$10,882,291.09
	527				
528	Inst (95.7 TSF)	\$1,505,557.81	\$285,995.04	\$1,791,552.85	
TOTAL			\$11,955,026.00	\$2,270,971.00	\$14,225,997.00

Fee Allocation Plan Lot (2nd VTTM 17008)	Parcel Fee Schedule Lot (AVTTM 17283)	LAND USE	Trabuco		TOTAL
			Interchange	Non-Trabuco	
46	530	Office (75 TSF)	\$1,048,710.96	\$1,048,710.96	\$1,048,710.96
	531	Inst (176.0 TSF)	\$2,768,842.04	\$2,768,842.04	\$2,768,842.04
TOTAL			\$3,817,553.00	\$725,180.00	\$4,542,733.00

Fee Allocation Plan Lot (2nd VTTM 17008)	Parcel Fee Schedule Lot (AVTTM 17283)	LAND USE	Trabuco		TOTAL
			Interchange	Non-Trabuco	
47	532	Med & Science (48.7 TSF)	\$565,389.18	\$107,401.00	\$672,790.18
	533	Inst (122.3 TSF)	\$1,924,030.57	\$365,487.72	\$2,289,518.29
	534	Senior (182 DU)	\$1,036,198.84	\$196,835.73	\$1,233,034.57
	535	Affordable (166 DU)	\$1,322,406.41	\$251,203.55	\$1,573,609.95
TOTAL			\$4,848,025.00	\$920,928.00	\$5,768,953.00

Fee Allocation Plan Lot (2nd VTTM 17008)	Parcel Fee Schedule Lot (AVTTM 17283)	LAND USE	Trabuco		TOTAL
			Interchange	Non-Trabuco	
48	536	10 TSF Church & 5 TSF Child Care	\$324,275.42	\$61,599.19	\$385,874.61
	537				
	538	Affordable (196 DU)	\$1,561,379.72	\$296,598.90	\$1,857,978.62
	539	Inst (280.2 TSF)	\$4,407,133.86	\$837,176.91	\$5,244,310.77
TOTAL			\$6,292,789.00	\$1,195,375.00	\$7,488,164.00

Exhibit "C" - Parcel Fee Schedule District 1 North

Fee Allocation Plan Lot (2nd VTTM 17008)	Parcel Fee Schedule Lot (AVTTM 17283)	LAND USE	Trabuco		TOTAL
			Interchange	Non-Trabuco	
	436	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	437	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	438	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	439	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	440	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	441	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	442	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	443	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	444	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	445	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	446	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	447	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	448	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	449	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	450	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	451	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	452	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	453	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	454	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	455	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	456	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	457	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	458	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	459	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	460	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	461	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	462	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	463	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
49	464	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	465	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	466	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	467	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	468	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	469	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	470	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	471	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	472	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	473	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	474	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	475	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	476	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	477	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	478	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	479	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	480	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	481	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	482	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	483	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	484	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	485	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	486	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	487	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	488	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	489	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	490	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	491	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92

Exhibit "C" - Parcel Fee Schedule District 1 North

Fee Allocation Plan Lot (2nd VTTM 17008)	Parcel Fee Schedule Lot (AVTTM 17283)	LAND USE	Trabuco Interchange	Non-Trabuco	TOTAL
49 (con't)	492	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	493	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	494	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	497	Multi Family Units (34 DU)	\$270,854.38	\$51,451.31	\$322,305.69
	498	Multi Family Units (35 DU)	\$278,820.68	\$52,964.59	\$331,785.27
	499	Inst (66.5 TSF)	\$1,046,181.99	\$198,732.01	\$1,244,914.00
TOTAL			\$2,173,676.00	\$412,910.00	\$2,586,586.00

Exhibit "C" - Parcel Fee Schedule District 1 North

Fee Allocation Plan Lot (2nd VTTM 17008)	Parcel Fee Schedule Lot (AVTTM 17283)	LAND USE	Trabuco		TOTAL
			Interchange	Non-Trabuco	
51	270	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	271	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	272	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	273	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	274	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	275	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	276	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	277	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	278	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	279	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	280	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	281	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	282	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	283	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	284	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	285	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	286	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	287	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	288	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	289	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	290	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	291	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	292	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	293	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	294	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	295	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	296	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	297	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	298	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	299	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	300	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	301	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
302	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92	
303	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92	
304	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92	
305	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92	
306	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92	
307	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92	
308	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92	
309	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92	
310	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92	
311	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92	
312	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92	
313	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92	
314	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92	
315	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92	
316	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92	
317	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92	
318	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92	
319	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92	
320	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92	
321	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92	
322	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92	
323	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92	
324	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92	

Exhibit "C" - Parcel Fee Schedule District 1 North

Fee Allocation Plan Lot (2nd VTTM 17008)	Parcel Fee Schedule Lot (AVTTM 17283)	LAND USE	Trabuco		TOTAL
			Interchange	Non-Trabuco	
51 (con't)	325	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	326	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	327	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	328	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	329	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	330	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	331	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	332	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	333	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	334	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	335	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	336	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	337	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	338	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	339	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	340	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	341	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	342	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	343	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	344	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	345	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	346	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	347	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	348	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	349	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	350	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	351	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	352	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	353	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	354	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	355	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	356	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	357	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	358	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	359	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	360	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	361	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	362	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	363	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	364	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	365	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	366	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	367	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	368	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	369	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	370	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	371	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	372	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	373	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	374	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	375	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	376	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	377	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	378	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
379	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92	
380	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92	

Exhibit "C" - Parcel Fee Schedule District 1 North

Fee Allocation Plan Lot (2nd VTTM 17008)	Parcel Fee Schedule Lot (AVTTM 17283)	LAND USE	Trabuco		TOTAL
			Interchange	Non-Trabuco	
51 (con't)	381	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	382	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	383	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	384	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	385	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	386	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	387	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	388	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	389	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	390	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	391	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	392	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	393	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	394	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	395	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	396	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	397	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	398	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	399	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	400	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	401	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	402	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	403	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	404	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	405	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	406	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	407	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	408	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	409	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	410	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	411	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	412	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	413	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	414	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
	415	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92
416	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92	
417	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92	
418	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92	
419	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92	
420	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92	
421	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92	
422	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92	
423	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92	
424	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92	
425	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92	
426	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92	
427	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92	
428	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92	
429	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92	
430	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92	
431	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92	
432	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92	
433	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92	
434	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92	
435	Single Family Detached	\$9,793.54	\$1,860.37	\$11,653.92	
TOTAL			\$1,625,728.00	\$308,822.00	\$1,934,550.00

Exhibit "C" - Parcel Fee Schedule District 1 North

Fee Allocation Plan Lot (2nd VTTM 17008)	Parcel Fee Schedule Lot (AVTTM 17283)	LAND USE	Trabuco		TOTAL
			Interchange	Non-Trabuco	
61	517	Multi Family Units (6 DU)	\$47,797.84	\$9,079.62	\$56,877.46
	518	Multi Family Units (24 DU)	\$191,191.36	\$36,318.48	\$227,509.84
	519	Multi Family Units (20 DU)	\$159,326.13	\$30,265.40	\$189,591.53
	520	Multi Family Units (36 DU)	\$286,787.04	\$54,477.72	\$341,264.76
	521	Multi Family Units (51 DU)	\$406,281.64	\$77,176.77	\$483,458.41
TOTAL			\$1,091,384.00	\$207,318.00	\$1,298,702.00

Fee Allocation Plan Lot (2nd VTTM 17008)	Parcel Fee Schedule Lot (AVTTM 17283)	LAND USE	Trabuco		TOTAL
			Interchange	Non-Trabuco	
62	505	Multi Family Units (30 DU)	\$238,989.09	\$45,398.30	\$284,387.39
	506	Multi Family Units (36 DU)	\$286,786.91	\$54,477.96	\$341,264.87
	507	Multi Family Units (36 DU)	\$286,786.91	\$54,477.96	\$341,264.87
	508	K-8 School	\$898,019.62	\$170,587.55	\$1,068,607.17
	522	Multi Family Units (60 DU)	\$477,978.19	\$90,796.60	\$568,774.78
	523	Multi Family Units (24 DU)	\$191,191.27	\$36,318.64	\$227,509.91
TOTAL			\$2,379,752.00	\$452,057.00	\$2,831,809.00

Fee Allocation Plan Lot (2nd VTTM 17008)	Parcel Fee Schedule Lot (AVTTM 17283)	LAND USE	Trabuco		TOTAL
			Interchange	Non-Trabuco	
63	1	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	2	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	3	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	4	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	5	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	6	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	7	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	8	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	9	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	10	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	11	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	12	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	13	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	14	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	15	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	16	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	17	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	18	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	19	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	20	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	21	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	22	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	23	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	24	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	25	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	26	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	27	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	28	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91

Exhibit "C" - Parcel Fee Schedule District 1 North

Fee Allocation Plan Lot (2nd VTTM 17008)	Parcel Fee Schedule Lot (AVTTM 17283)	LAND USE	Trabuco		TOTAL
			Interchange	Non-Trabuco	
63 (con't)	29	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	30	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	31	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	32	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	33	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	34	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	35	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	36	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	37	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	38	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	39	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	40	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	41	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	42	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	43	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	44	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	45	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	46	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	47	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	48	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	49	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	50	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	51	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	52	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	53	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	54	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	55	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	56	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	57	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	58	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	59	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.91
	515	Multi Family Units (54 DU)	\$430,180.34	\$81,716.85	\$511,897.19
516	Multi Family Units (69 DU)	\$549,674.88	\$104,415.98	\$654,090.86	
		TOTAL	\$1,557,674.00	\$295,895.00	\$1,853,569.00

Exhibit "C" - Parcel Fee Schedule District 1 North

Fee Allocation Plan Lot (2nd VTTM 17008)	Parcel Fee Schedule Lot (AVTTM 17283)	LAND USE	Trabuco		TOTAL
			Interchange	Non-Trabuco	
64	60	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	61	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	62	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	63	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	64	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	65	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	66	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	67	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	68	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	69	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	70	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	71	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	72	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	73	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	74	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	75	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	76	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	77	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	78	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	79	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	80	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	81	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	82	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	83	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	84	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	85	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	86	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	87	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	88	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	89	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	90	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	91	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	92	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	93	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	94	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	95	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	96	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	97	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	98	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	99	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	100	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	101	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	102	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	103	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	104	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	105	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	106	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
107	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	
108	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	
109	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	
110	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	
111	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	
112	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	
113	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	
114	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	

Exhibit "C" - Parcel Fee Schedule District 1 North

Fee Allocation Plan Lot (2nd VTTM 17008)	Parcel Fee Schedule Lot (AVTTM 17283)	LAND USE	Trabuco		TOTAL
			Interchange	Non-Trabuco	
64 (con't)	115	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	116	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	117	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	118	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	119	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	120	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	121	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	122	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	123	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	124	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	125	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	126	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	510	Multi Family Units (52 DU)	\$414,247.77	\$78,690.33	\$492,938.09
	511	Multi Family Units (16 DU)	\$127,460.85	\$24,212.41	\$151,673.26
	512	Multi Family Units (56 DU)	\$446,112.98	\$84,743.43	\$530,856.41
513	Multi Family Units (14 DU)	\$111,528.24	\$21,185.86	\$132,714.10	
514	Multi Family Units (10 DU)	\$79,663.03	\$15,132.76	\$94,795.79	
		TOTAL	\$1,835,180.00	\$348,610.00	\$2,183,790.00

Fee Allocation Plan Lot (2nd VTTM 17008)	Parcel Fee Schedule Lot (AVTTM 17283)	LAND USE	Trabuco		TOTAL
			Interchange	Non-Trabuco	
65	127	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	128	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	129	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	130	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	131	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	132	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	133	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	134	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	135	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	136	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	137	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	138	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	139	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	140	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	141	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	142	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	143	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	144	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	145	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	146	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	147	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
148	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	
149	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	
150	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	
151	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	
152	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	
153	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	

Exhibit "C" - Parcel Fee Schedule District 1 North

Fee Allocation Plan Lot (2nd VTTM 17008)	Parcel Fee Schedule Lot (AVTTM 17283)	LAND USE	Trabuco		TOTAL
			Interchange	Non-Trabuco	
65 (con't)	154	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	155	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	156	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	157	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	158	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	159	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	160	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	161	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	162	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	163	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	164	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	165	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	166	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	167	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	168	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	169	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	170	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	171	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	172	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	173	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	174	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	175	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	176	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	177	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	178	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	179	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	180	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	181	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	182	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	183	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	184	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	185	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	186	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	187	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
188	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	
189	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	
190	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	
191	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	
192	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	
193	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	
194	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	
195	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	
196	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	
197	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	
198	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	
199	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	
200	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	
201	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	
202	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	

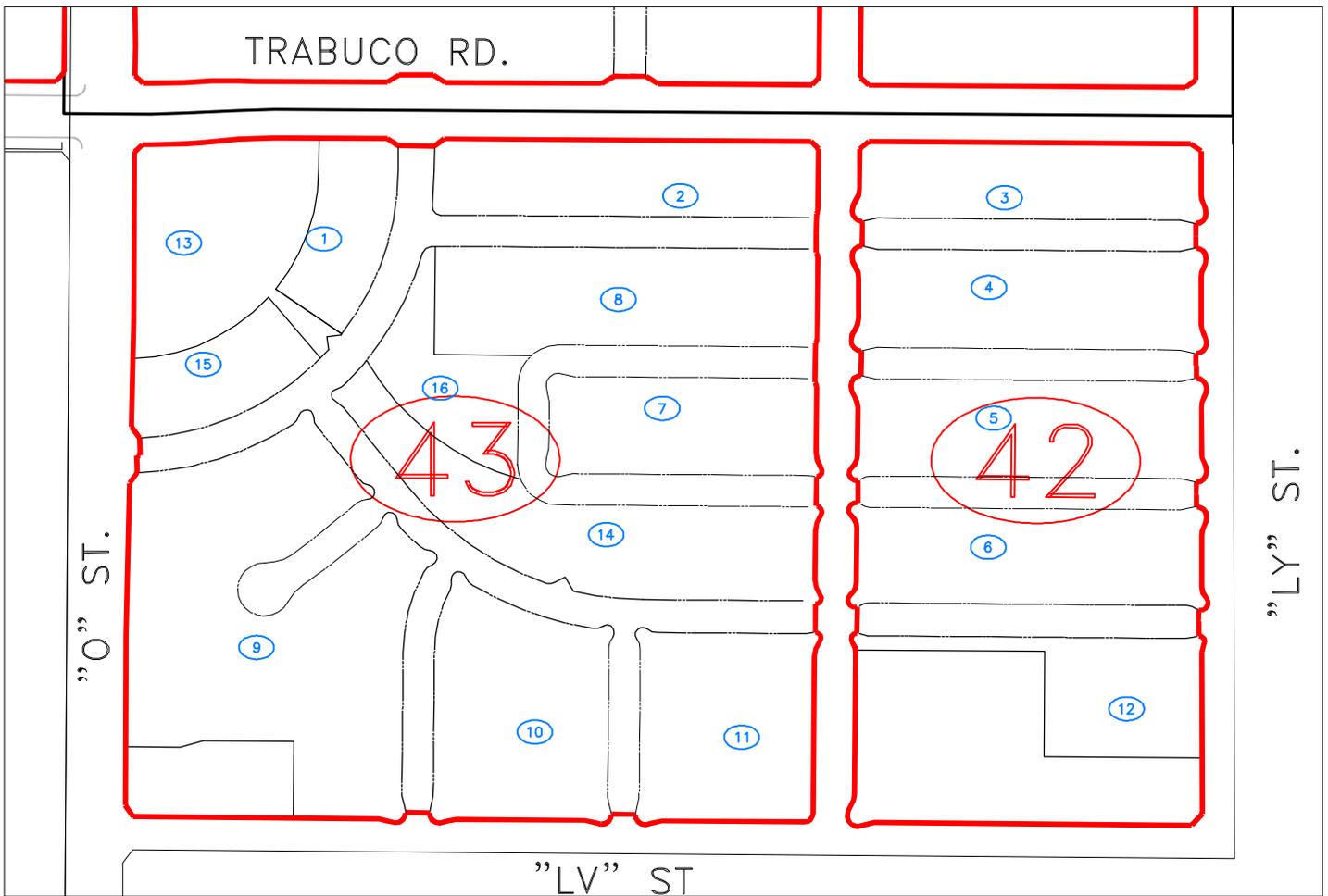
Exhibit "C" - Parcel Fee Schedule District 1 North

Fee Allocation Plan Lot (2nd VTTM 17008)	Parcel Fee Schedule Lot (AVTTM 17283)	LAND USE	Trabuco		TOTAL
			Interchange	Non-Trabuco	
65 (con't)	203	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	204	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	205	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	206	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	207	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	208	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	209	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	210	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	211	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	212	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	213	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	214	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	215	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	216	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	217	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	218	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	219	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	220	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	221	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	222	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	223	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	224	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	225	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	226	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	227	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	228	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	229	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	230	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	231	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	232	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	233	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
234	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	
235	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	
236	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	
237	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	
238	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	
239	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	
240	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	
241	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	
242	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	
243	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	
244	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	
245	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	
246	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	
247	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	
248	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	
249	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	
250	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	
251	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92	

Exhibit "C" - Parcel Fee Schedule District 1 North

Fee Allocation Plan Lot (2nd VTTM 17008)	Parcel Fee Schedule Lot (AVTTM 17283)	LAND USE	Trabuco Interchange	Non-Trabuco	TOTAL
65 (con't)	252	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	253	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	254	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	255	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	256	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	257	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	258	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	259	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	260	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	261	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	262	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	263	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	264	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	265	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	266	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	267	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	268	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
	269	Single Family Detached	\$9,793.54	\$1,860.38	\$11,653.92
TOTAL			\$1,400,476.00	\$266,034.00	\$1,666,510.00

EXHIBIT "C"
PARCEL FEE SCHEDULE - DISTRICT 1 SOUTH



LEGEND:

-  2ND AVTTM 17008 LOT LINE
-  2ND AVTTM 17008 LOT NUMBER
-  AVTTM 17368 LOT NUMBER



Exhibit "C" - GPI Parcel Fee Schedule District 1 South

Fee Allocation Plan Lot (2nd VTTM 17008)	Parcel Fee Schedule Lot (VTTM 17368)	LAND USE	Trabuco		TOTAL
			Interchange	Non-Trabuco	
42	3	Multi Family Units (30 DU)	\$238,989.11	\$45,398.30	\$284,387.41
	4	Multi Family Units (28 DU)	\$223,056.50	\$42,371.75	\$265,428.25
	5	Multi Family Units (28 DU)	\$223,056.50	\$42,371.75	\$265,428.25
	6	Multi Family Units (26 DU)	\$207,123.89	\$39,345.20	\$246,469.09
TOTAL			\$892,226.00	\$169,487.00	\$1,061,713.00

Fee Allocation Plan Lot (2nd VTTM 17008)	Parcel Fee Schedule Lot (VTTM 17368)	LAND USE	Trabuco		TOTAL
			Interchange	Non-Trabuco	
43	1	Multi Family Units (18 DU)	\$143,393.45	\$27,238.94	\$170,632.39
	2	Multi Family Units (30 DU)	\$238,989.09	\$45,398.23	\$284,387.32
	7	Multi Family Units (40 DU)	\$318,652.11	\$60,530.98	\$379,183.09
	8	Multi Family Units (52 DU)	\$414,247.75	\$78,690.27	\$492,938.02
	9	Multi Family Units (87 DU)	\$693,068.35	\$131,654.88	\$824,723.22
	10	Multi Family Units (36 DU)	\$286,786.90	\$54,477.88	\$341,264.78
	11	Multi Family Units (36 DU)	\$286,786.90	\$54,477.88	\$341,264.78
	15	Multi Family Units (18 DU)	\$143,393.45	\$27,238.94	\$170,632.39
TOTAL			\$2,525,318.00	\$479,708.00	\$3,005,026.00

**ITEM 5: UPDATED PA 40 NITM FEE ALLOCATION
PLAN**

EXHIBIT B
PA 40 NITM FEE ALLOCATION PLAN (revision #2)

<u>DEVELOPMENT AREA</u>	<u>TRABUCO/SR133 INTERCHANGE (a)</u>	<u>NON-TRABUCO/SR133 IMPROVEMENTS (b)</u>	<u>TOTAL NITM OBLIGATION</u>
TTM 17277			
APARTMENTS (PAID)	\$5,445,151	\$2,617,487	\$8,062,638
FOR-SALE/AFFORDABLE (PAID)	\$9,998,106	\$4,806,096	\$14,804,202
RETAIL/MIXED USE	\$6,022,486	\$2,929,775	\$8,952,261
SUB-TOTAL	\$21,465,743	\$10,353,358	\$31,819,101
PA 40 MIXED USE LAND (e/o SR133)	\$5,660,878	\$2,753,863	\$8,414,741
MARINE WAY PARCELS	\$1,651,037	\$803,185	\$2,454,222
TOTAL	\$28,777,658	\$13,910,406	\$42,688,064

\$276,179 NITM Credits utilized by apartments

Additional \$214,246 NITM Credits, subject to City final accounting, available for use by areas that fees have not been paid to date

(a) to be satisfied by Trabuco/SR 133 Right of Way Credit

(b) to be paid by cash, AD bond proceeds and existing/projected NITM fee credits

Based on draft April 2013 Great Park Neighborhoods 2011 GPA/ZC NITM Program Fee Reallocation Study

5/7/2013

EXHIBIT C
REVISED PA 40 NITM FEE PER GPN 2011 GPA/ZC

DEVELOPMENT AREA	Fee Basis	ADT	TRABUCO/SR-133	Non-Interchange	TOTAL
TTM 17277					
APARTMENTS (based on actuals)	\$44,612,810	11840	\$5,445,151	\$2,617,487	\$8,062,638
FOR-SALE/AFFORDABLE (based on actuals)	\$44,612,810	21740	\$9,998,106	\$4,806,096	\$14,804,202
RETAIL/MIXED USE	\$40,664,109	14423	\$6,022,486	\$2,929,775	\$8,952,261
SUB-TOTAL			\$21,465,743	\$10,353,358	\$31,819,101
PA 40 MIXED USE E/O SR-133	\$40,664,109	13557	\$5,660,878	\$2,753,863	\$8,414,741
MARINE WAY PARCELS	\$40,664,109	3954	\$1,651,037	\$803,185	\$2,454,222
		65514	\$7,311,915	\$3,557,047	\$10,868,963
TOTAL UPDATED PA 40 FEES			\$28,777,658	\$13,910,406	\$42,688,064
REMAINING FEES					
TTM 17277 Retail/Mixed Use			\$6,022,486	\$2,929,775	\$8,952,261
MIXED USE E/O SR-133			\$5,660,878	\$2,753,863	\$8,414,741
MARINE WAY PARCELS			\$1,651,037	\$803,185	\$2,454,222
TOTAL REMAINING			\$13,334,401	\$6,486,823	\$19,821,224

5/7/2013

EXHIBIT C-2
CALCULATION OF PA 40 REMAINING FEES

A. Determination of % Fees Paid to Date

1. PA 40 Fees based on PA 40 NITM Reallocation Study= \$44,612,810
2. PA 40 Fees paid for Apartments and For-Sale/Affordable within TTM 17277= \$22,866,840
3. Percentage of PA 40 Fees paid to date= $22,866,840/44,612,810 = 51.25622\%$
4. Percentage of unpaid PA 40 Fees= $100\% - 51.25622\% = 48.74378\%$

B. Determination of Remaining Fees to be Paid by PA 40

1. PA 40 Fees based on Great Park Reallocation Study= \$40,664,109
Trabuco/SR 133= \$27,356,108 (Table 4-2)
Non-Trabuco/SR 133=\$13,308,001 (Table 4-2)
2. Remaining Fees
 - a. Trabuco/SR133 = $27,356,108 \times 48.74378\% = \$13,334,401$
 - b. Non-Trabuco/SR133 = $13,308,001 \times 48.74378\% = \$6,486,823$
 - c. Total = \$19,821,224