

CRAIN & ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 8, DEVONSHIRE ST. & MASON AV.
DATE: 9/2/2004 INITIALS: PERIOD: PM PEAK HOUR
CASE: FUTURE (2007) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	109	801	166	0
EASTBOUND	151	957	146	0
NORTHBOUND	150	1070	231	0
SOUTHBOUND	98	607	63	0

** NUMBER OF LANES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED	TOTAL LANES
EASTBOUND	1	0	2	1	0	0	4
NORTHBOUND	1	0	1	1	0	0	3
SOUTHBOUND	1	0	1	1	0	0	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED
EASTBOUND	151	N/A	368	368	N/A	N/A
NORTHBOUND	150	N/A	650	650	N/A	N/A
SOUTHBOUND	98	N/A	335	335	N/A	N/A

EAST-WEST CRITICAL VOLUMES 477
 NORTH-SOUTH CRITICAL VOLUMES 748

 THE SUM OF CRITICAL VOLUMES 1225
 NUMBER OF CRITICAL CLEARANCE INTERVALS 2
 CMA VALUE 0.817
 LEVEL OF SERVICE D

CRAIN & ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 8, DEVONSHIRE ST. & MASON AV.
DATE: 9/2/2004 INITIALS: PERIOD: PM PEAK HOUR
CASE: FUTURE (2007) WITH TDM

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	109	800	165	0
EASTBOUND	151	955	146	0
NORTHBOUND	150	1067	231	0
SOUTHBOUND	96	602	63	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	2	1	0	0	4
EASTBOUND	1	0	2	1	0	0	4
NORTHBOUND	1	0	1	1	0	0	3
SOUTHBOUND	1	0	1	1	0	0	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	109	N/A	322	322	N/A	N/A
EASTBOUND	151	N/A	367	367	N/A	N/A
NORTHBOUND	150	N/A	649	649	N/A	N/A
SOUTHBOUND	96	N/A	332	332	N/A	N/A

EAST-WEST CRITICAL VOLUMES	476
NORTH-SOUTH CRITICAL VOLUMES	745

THE SUM OF CRITICAL VOLUMES	1221
NUMBER OF CRITICAL CLEARANCE INTERVALS	2
CMA VALUE	0.814
LEVEL OF SERVICE	D

Crain & Associates

Of Southern California

2007 Sawtelle Boulevard, Suite 4
Los Angeles, California 90025
Telephone (310) 473-6508
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HAND DELIVERED

April 7, 2005

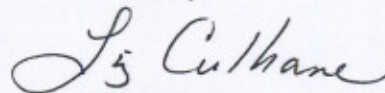
Mr. James L. Brock
Environmental Planning Associates, Inc.
12100 Wilshire Boulevard, Suite 660
Los Angeles, California 90025

RE: Sierra Canyon High School Traffic Analysis Refinements

Dear Mr. Brock,

Enclosed is a summary of the traffic study findings for the proposed Sierra Canyon High School. A refined traffic evaluation was conducted to coincide with Los Angeles Department of Transportation (LADOT) approval letter to the Department of City Planning dated March 29, 2005. The refinements include slightly altered future distribution patterns with the traffic study approval letter. The proposed mitigation reflects the improvements required by LADOT. The conclusions of the September 2004 study are altered in only that one previously identified significant impact in the traffic study is no longer a significant impact due to the intersection being signalized since the time of the analysis.

Sincerely,



Liz Culhane
Senior Traffic Engineer

LC:lc
C15796
enclosures

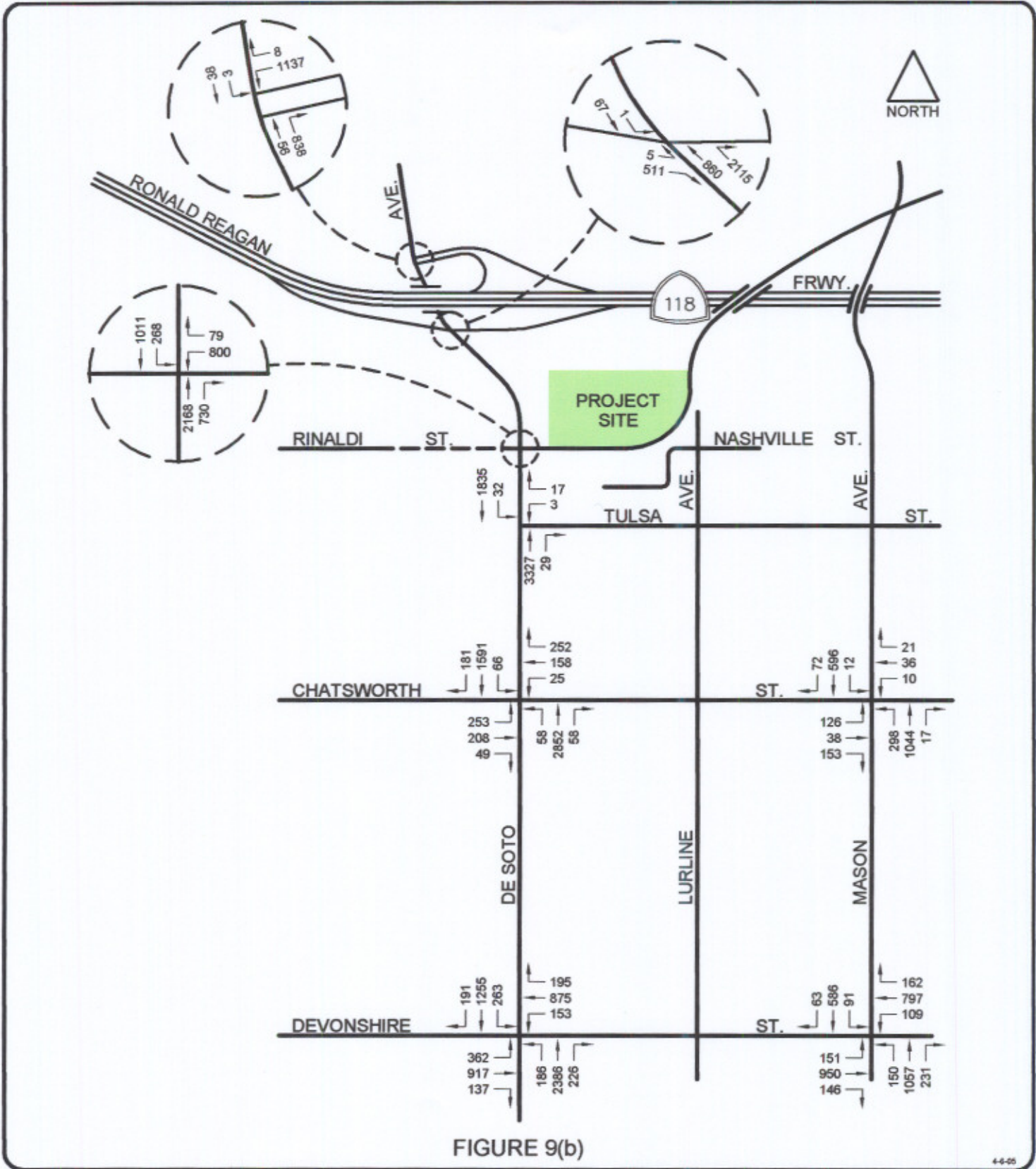
cc: Sanje Ratnavale
Dale Neal
Samantha Ortiz (with enclosures) ✓

Crain & Associates
 April 6, 2005
 3:22 PM
 DRAFT

**Critical Movement Analysis Summary
 Existing and Future Conditions**

No.	Intersection	Peak Hour	Existing		Without Project		With Project			With Project + Mitigation			
			CMA	LOS	CMA	LOS	CMA	LOS	Impact	CMA	LOS	Impact	
1	RONALD REAGAN FWY. W/B RAMF DE SOTO AV.	AM	0.736	C	0.809	D	0.815	D	0.006	0.813	D	0.004	
		PM	0.414	A	0.480	A	0.482	A	0.002	0.481	A	0.001	
2	RONALD REAGAN FWY. E/B RAMP DE SOTO AV.	AM	0.650	B	0.714	C	0.719	C	0.005	0.718	C	0.004	
		PM	0.322	A	0.363	A	0.372	A	0.009	0.370	A	0.007	
3	RINALDI ST. & DE SOTO AV.	AM	0.876	D	0.961	E	1.059	F	0.098	*	0.934	E	-0.027
		PM	0.982	E	1.258	F	1.309	F	0.051	*	1.196	F	-0.062
4	TULSA ST. & DE SOTO AV.	AM	0.964	E	1.072	F	1.133	F	0.061	*	0.909	E	-0.163
		PM	1.058	F	1.204	F	1.232	F	0.028	*	1.037	F	-0.167
5	CHATSWORTH ST. & DE SOTO AV.	AM	0.950	E	1.074	F	1.123	F	0.049	*	0.988	E	-0.086
		PM	0.921	E	1.035	F	1.059	F	0.024	*	0.885	D	-0.150
6	DEVONSHIRE ST. & DE SOTO AV.	AM	0.876	D	1.022	F	1.039	F	0.017	*	0.935	E	-0.087
		PM	1.003	F	1.202	F	1.213	F	0.011	*	1.110	F	-0.092
7	CHATSWORTH ST. & MASON AV.	AM	0.719	C	0.794	C	0.836	D	0.042	*	0.689	B	-0.105
		PM	0.424	A	0.493	A	0.505	A	0.012		0.501	A	0.008
8	DEVONSHIRE ST. & MASON AV.	AM	0.728	C	0.829	D	0.846	D	0.017		0.841	D	0.012
		PM	0.693	B	0.848	D	0.860	D	0.012		0.857	D	0.009

An * indicates a significant impact (LADOT Revised Scale).



4-4-05

Sierra Canyon High School/PM2007(W/RINALDI)

**FUTURE (2007) TRAFFIC VOLUMES
WITHOUT PROJECT
WITH RINALDI STREET CONNECTED
PM PEAK HOUR**



CRAIN & ASSOCIATES

2007 Sawtelle Boulevard
Los Angeles, California 90025
(310) 473-6508

Transportation Planning • Traffic Engineering

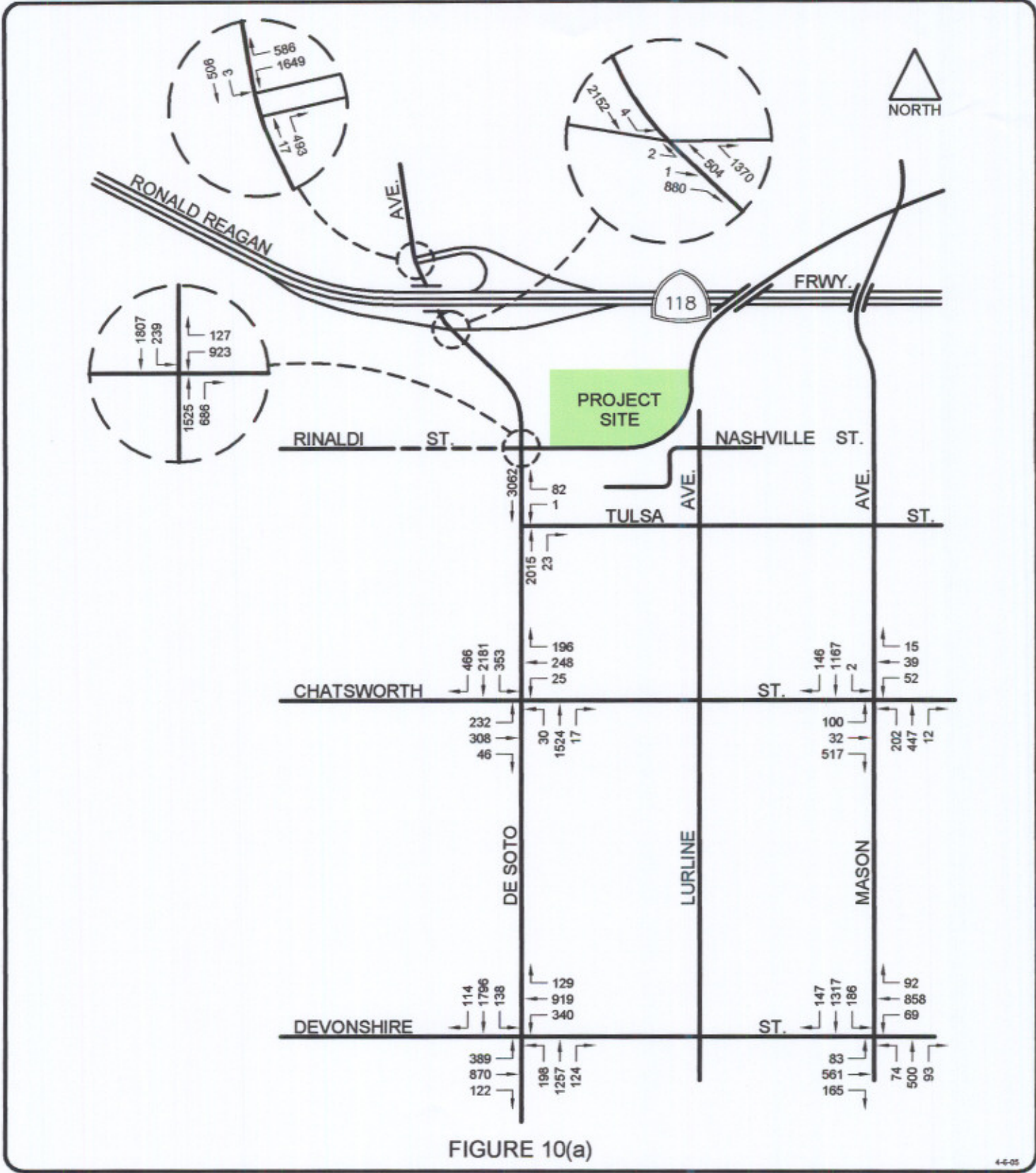


FIGURE 10(a)

4-4-05

Sierra Canyon High School (AM2007WP(WRINALDI))

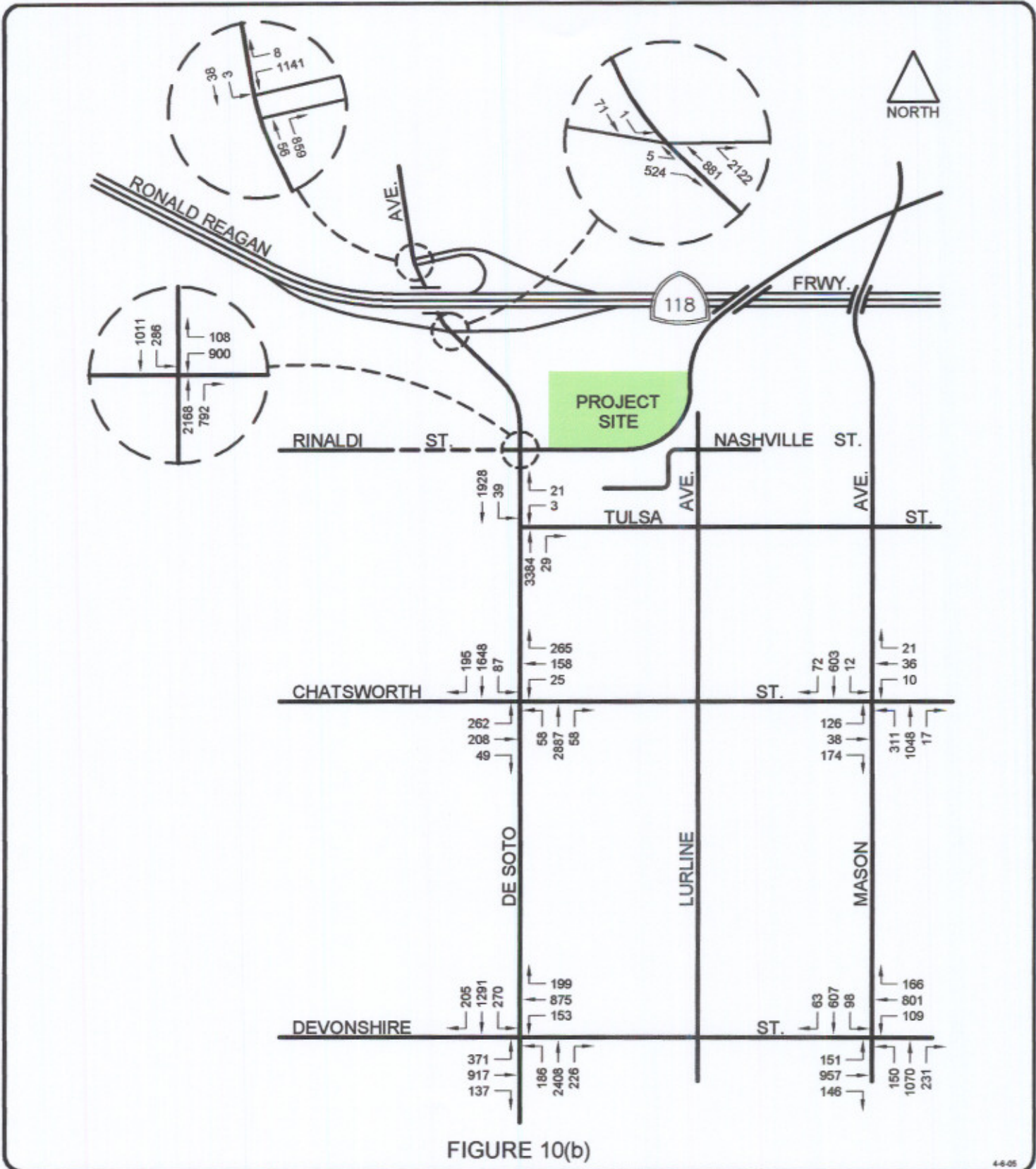
FUTURE (2007) TRAFFIC VOLUMES
WITH PROJECT
WITH RINALDI STREET CONNECTED
AM PEAK HOUR



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4-4-05

Slack Canyon High School/PM2007/MP/RINALDI

STICK2

**FUTURE (2007) TRAFFIC VOLUMES
WITH PROJECT
WITH RINALDI STREET CONNECTED
PM PEAK HOUR**



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CRAIN & ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 1, RONALD REAGAN FWY. W/B RAMPS & DE SOTO AV.
DATE: 4/6/2005 INITIALS: LC PERIOD: AM PEAK HOUR
CASE: EXISTING (2004)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	1499	0	422	110
EASTBOUND	0	0	0	0
NORTHBOUND	0	6	0	424
SOUTHBOUND	3	447	0	0

** NUMBER OF LANES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED	TOTAL LANES
	WESTBOUND	2	0	0	0	1	0
EASTBOUND	0	0	0	0	0	0	0
NORTHBOUND	0	0	1	0	2	0	3
SOUTHBOUND	0	1	1	0	0	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED
	WESTBOUND	824	N/A	N/A	N/A	422
EASTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	6	N/A	0	N/A
SOUTHBOUND	N/A	225	225	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 824
 NORTH-SOUTH CRITICAL VOLUMES 225

 THE SUM OF CRITICAL VOLUMES 1049
 NUMBER OF CRITICAL CLEARANCE INTERVALS 0
 CMA VALUE 0.736
 LEVEL OF SERVICE C

CRAIN & ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 2, RONALD REAGAN FWY. E/B RAMPS & DE SOTO AV.
DATE: 4/6/2005 INITIALS: LC PERIOD: AM PEAK HOUR
CASE: EXISTING (2004)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	0	0	0
EASTBOUND	2	1	0	761
NORTHBOUND	0	429	0	1264
SOUTHBOUND	4	1943	0	0

** NUMBER OF LANES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED	TOTAL LANES
EASTBOUND	0	1	0	0	1	0	2
NORTHBOUND	0	0	1	1	1	0	3
SOUTHBOUND	1	0	2	0	0	0	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED
EASTBOUND	N/A	3	N/A	N/A	0	N/A
NORTHBOUND	N/A	N/A	214	N/A	0	N/A
SOUTHBOUND	4	N/A	972	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 3
 NORTH-SOUTH CRITICAL VOLUMES 972

 THE SUM OF CRITICAL VOLUMES 975
 NUMBER OF CRITICAL CLEARANCE INTERVALS 0
 CMA VALUE 0.650
 LEVEL OF SERVICE B

CRAIN & ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 4, TULSA ST. & DE SOTO AV.
DATE: 4/6/2005 INITIALS: LC PERIOD: AM PEAK HOUR
CASE: EXISTING (2004)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	RIGHT TURNS	
			MIN ON GREEN	MAX ON RED
WESTBOUND	1	0	63	0
EASTBOUND	0	0	0	0
NORTHBOUND	0	1636	0	22
SOUTHBOUND	0	2621	0	0

** NUMBER OF LANES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED	TOTAL LANES
EASTBOUND	0	0	0	0	0	1	1
NORTHBOUND	1	0	2	0	1	0	4
SOUTHBOUND	0	0	2	0	1	0	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED
EASTBOUND	N/A	N/A	N/A	N/A	N/A	0
NORTHBOUND	0	N/A	818	N/A	0	N/A
SOUTHBOUND	N/A	N/A	1310	N/A	0	N/A

EAST-WEST CRITICAL VOLUMES 64
 NORTH-SOUTH CRITICAL VOLUMES 1310

 THE SUM OF CRITICAL VOLUMES 1374

 NUMBER OF CRITICAL CLEARANCE INTERVALS 0

 CMA VALUE 0.964

 LEVEL OF SERVICE E

CRAIN & ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 5, CHATSWORTH ST. & DE SOTO AV.
DATE: 4/6/2005 INITIALS: LC PERIOD: AM PEAK HOUR
CASE: EXISTING (2004)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	22	217	0	141
EASTBOUND	190	269	27	0
NORTHBOUND	22	1247	15	0
SOUTHBOUND	295	1850	324	95

** NUMBER OF LANES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED	TOTAL LANES
WESTBOUND	1	0	1	0	1	0	3
EASTBOUND	1	0	1	1	0	0	3
NORTHBOUND	1	0	2	1	0	0	4
SOUTHBOUND	1	0	2	0	1	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED
WESTBOUND	22	N/A	217	N/A	0	N/A
EASTBOUND	190	N/A	148	148	N/A	N/A
NORTHBOUND	22	N/A	421	421	N/A	N/A
SOUTHBOUND	295	N/A	925	N/A	324	N/A

EAST-WEST CRITICAL VOLUMES 407
 NORTH-SOUTH CRITICAL VOLUMES 947

 THE SUM OF CRITICAL VOLUMES 1354
 NUMBER OF CRITICAL CLEARANCE INTERVALS 3
 CMA VALUE 0.950
 LEVEL OF SERVICE E

CRAIN & ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 6, DEVONSHIRE ST. & DE SOTO AV.
DATE: 4/6/2005 INITIALS: LC PERIOD: AM PEAK HOUR
CASE: EXISTING (2004)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	311	792	0	97
EASTBOUND	323	732	87	0
NORTHBOUND	163	1057	108	0
SOUTHBOUND	106	1540	59	0

** NUMBER OF LANES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED	TOTAL LANES
EASTBOUND	2	0	1	1	0	0	4
NORTHBOUND	2	0	2	1	0	0	5
SOUTHBOUND	2	0	2	1	0	0	5

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED
EASTBOUND	178	N/A	410	410	N/A	N/A
NORTHBOUND	90	N/A	388	388	N/A	N/A
SOUTHBOUND	58	N/A	533	533	N/A	N/A

EAST-WEST CRITICAL VOLUMES 581
 NORTH-SOUTH CRITICAL VOLUMES 623

 THE SUM OF CRITICAL VOLUMES 1204
 NUMBER OF CRITICAL CLEARANCE INTERVALS 4
 CMA VALUE 0.876
 LEVEL OF SERVICE D

CRAIN & ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 7, CHATSWORTH ST. & MASON AV.
DATE: 4/6/2005 INITIALS: LC PERIOD: AM PEAK HOUR
CASE: EXISTING (2004)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	49	20	0	14
EASTBOUND	93	9	375	74
NORTHBOUND	147	365	11	0
SOUTHBOUND	2	1016	0	136

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	1	0	2	0	1	0	4
EASTBOUND	1	0	1	0	1	0	3
NORTHBOUND	1	0	1	1	0	0	3
SOUTHBOUND	1	0	2	0	1	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	49	N/A	10	N/A	0	N/A
EASTBOUND	93	N/A	9	N/A	375	N/A
NORTHBOUND	147	N/A	188	188	N/A	N/A
SOUTHBOUND	2	N/A	508	N/A	0	N/A

EAST-WEST CRITICAL VOLUMES	424
NORTH-SOUTH CRITICAL VOLUMES	655

THE SUM OF CRITICAL VOLUMES	1079
NUMBER OF CRITICAL CLEARANCE INTERVALS	2
CMA VALUE	0.719
LEVEL OF SERVICE	C

CRAIN & ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 8, DEVONSHIRE ST. & MASON AV.
DATE: 4/6/2005 INITIALS: LC PERIOD: AM PEAK HOUR
CASE: EXISTING (2004)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	61	703	69	0
EASTBOUND	76	419	150	0
NORTHBOUND	66	396	83	0
SOUTHBOUND	160	1142	135	0

** NUMBER OF LANES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED	TOTAL LANES
WESTBOUND	1	0	2	1	0	0	4
EASTBOUND	1	0	2	1	0	0	4
NORTHBOUND	1	0	1	1	0	0	3
SOUTHBOUND	1	0	1	1	0	0	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED
WESTBOUND	61	N/A	257	257	N/A	N/A
EASTBOUND	76	N/A	190	190	N/A	N/A
NORTHBOUND	66	N/A	240	240	N/A	N/A
SOUTHBOUND	160	N/A	638	638	N/A	N/A

EAST-WEST CRITICAL VOLUMES	333
NORTH-SOUTH CRITICAL VOLUMES	704

THE SUM OF CRITICAL VOLUMES	1037
NUMBER OF CRITICAL CLEARANCE INTERVALS	2
CMA VALUE	0.728
LEVEL OF SERVICE	C

CRAIN & ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 1, RONALD REAGAN FWY. W/B RAMPS & DE SOTO AV.
DATE: 4/6/2005 INITIALS: LC PERIOD: PM PEAK HOUR
CASE: EXISTING (2004)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	1034	0	5	2
EASTBOUND	0	0	0	0
NORTHBOUND	0	18	0	749
SOUTHBOUND	3	18	0	0

** NUMBER OF LANES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R	TOTAL LANES
EASTBOUND	0	0	0	0	0	0	0
NORTHBOUND	0	0	1	0	2	0	3
SOUTHBOUND	0	1	1	0	0	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED
EASTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	18	N/A	0	N/A
SOUTHBOUND	N/A	10	10	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 569
 NORTH-SOUTH CRITICAL VOLUMES 21

 THE SUM OF CRITICAL VOLUMES 590
 NUMBER OF CRITICAL CLEARANCE INTERVALS 0
 CMA VALUE 0.414
 LEVEL OF SERVICE A

CRAIN & ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 2, RONALD REAGAN FWY. E/B RAMPS & DE SOTO AV.
DATE: 4/6/2005 INITIALS: LC PERIOD: PM PEAK HOUR
CASE: EXISTING (2004)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	RIGHT TURNS	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	0	0	0
EASTBOUND	5	0	0	418
NORTHBOUND	0	763	0	1949
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED	TOTAL LANES
EASTBOUND	0	1	0	0	1	0	2
NORTHBOUND	0	0	1	1	1	0	3
SOUTHBOUND	1	0	2	0	0	0	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED
EASTBOUND	N/A	5	N/A	N/A	0	N/A
NORTHBOUND	N/A	N/A	382	N/A	0	N/A
SOUTHBOUND	0	N/A	0	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES	5
NORTH-SOUTH CRITICAL VOLUMES	382

THE SUM OF CRITICAL VOLUMES	387
NUMBER OF CRITICAL CLEARANCE INTERVALS	0
CMA VALUE	0.322
LEVEL OF SERVICE	A

File: I:\Crain Projects\Active Projects\Sierra Canyon High School\Data\Icap6\2007 Future Year Scenario\TotalwithRinald4-05rev.xls,
Worksheet: Formula Total, Row: 11
4/6/2005 3:22:06 PM

CRAIN & ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 3, RINALDI ST. & DE SOTO AV.
DATE: 4/6/2005 INITIALS: LC PERIOD: PM PEAK HOUR
CASE: EXISTING (2004)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	2	0	0	2
EASTBOUND	0	0	0	0
NORTHBOUND	0	2931	1	1
SOUTHBOUND	5	1583	0	0

** NUMBER OF LANES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED	TOTAL LANES
EASTBOUND	0	0	0	0	0	0	0
NORTHBOUND	0	0	2	0	1	0	3
SOUTHBOUND	1	0	2	0	0	0	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED
EASTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	1466	N/A	1	N/A
SOUTHBOUND	5	N/A	792	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 2
 NORTH-SOUTH CRITICAL VOLUMES 1471

 THE SUM OF CRITICAL VOLUMES 1473
 NUMBER OF CRITICAL CLEARANCE INTERVALS 2
 CMA VALUE 0.982
 LEVEL OF SERVICE E

CRAIN & ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 4, TULSA ST. & DE SOTO AV.
DATE: 4/6/2005 INITIALS: LC PERIOD: PM PEAK HOUR
CASE: EXISTING (2004)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	3	0	16	0
EASTBOUND	0	0	0	0
NORTHBOUND	0	2917	16	10
SOUTHBOUND	30	1555	0	0

** NUMBER OF LANES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED	TOTAL LANES
EASTBOUND	0	0	0	0	0	1	1
NORTHBOUND	1	0	2	0	1	0	4
SOUTHBOUND	1	0	2	0	1	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED
EASTBOUND	N/A	N/A	N/A	N/A	N/A	0
NORTHBOUND	0	N/A	1458	N/A	16	N/A
SOUTHBOUND	30	N/A	778	N/A	0	N/A

EAST-WEST CRITICAL VOLUMES	19
NORTH-SOUTH CRITICAL VOLUMES	1488

THE SUM OF CRITICAL VOLUMES	1507
NUMBER OF CRITICAL CLEARANCE INTERVALS	0
CMA VALUE	1.058
LEVEL OF SERVICE	F

CRAIN & ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 5, CHATSWORTH ST. & DE SOTO AV.
DATE: 4/6/2005 INITIALS: LC PERIOD: PM PEAK HOUR
CASE: EXISTING (2004)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	22	121	174	62
EASTBOUND	236	174	28	0
NORTHBOUND	30	2471	52	0
SOUTHBOUND	62	1326	52	118

** NUMBER OF LANES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED	TOTAL LANES
EASTBOUND	1	0	1	1	0	0	3
NORTHBOUND	1	0	2	1	0	0	4
SOUTHBOUND	1	0	2	0	1	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED
EASTBOUND	236	N/A	101	101	N/A	N/A
NORTHBOUND	30	N/A	841	841	N/A	N/A
SOUTHBOUND	62	N/A	663	N/A	52	N/A

EAST-WEST CRITICAL VOLUMES	410
NORTH-SOUTH CRITICAL VOLUMES	903

THE SUM OF CRITICAL VOLUMES	1313
NUMBER OF CRITICAL CLEARANCE INTERVALS	3
CMA VALUE	0.921
LEVEL OF SERVICE	E

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CRAIN & ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 6, DEVONSHIRE ST. & DE SOTO AV.
DATE: 4/6/2005 INITIALS: LC PERIOD: PM PEAK HOUR
CASE: EXISTING (2004)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	125	684	80	56
EASTBOUND	306	752	96	0
NORTHBOUND	133	2087	188	0
SOUTHBOUND	201	1063	153	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	2	0	2	0	1	0	5
EASTBOUND	2	0	1	1	0	0	4
NORTHBOUND	2	0	2	1	0	0	5
SOUTHBOUND	2	0	2	1	0	0	5

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	69	N/A	342	N/A	80	N/A
EASTBOUND	168	N/A	424	424	N/A	N/A
NORTHBOUND	73	N/A	758	758	N/A	N/A
SOUTHBOUND	111	N/A	405	405	N/A	N/A

EAST-WEST CRITICAL VOLUMES 510
 NORTH-SOUTH CRITICAL VOLUMES 869

 THE SUM OF CRITICAL VOLUMES 1379
 NUMBER OF CRITICAL CLEARANCE INTERVALS 4
 CMA VALUE 1.003
 LEVEL OF SERVICE F

CRAIN & ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 7, CHATSWORTH ST. & MASON AV.
DATE: 4/6/2005 INITIALS: LC PERIOD: PM PEAK HOUR
CASE: EXISTING (2004)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	9	5	0	19
EASTBOUND	116	14	4	140
NORTHBOUND	280	860	16	0
SOUTHBOUND	11	475	8	58

** NUMBER OF LANES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED	TOTAL LANES
EASTBOUND	1	0	1	0	1	0	3
NORTHBOUND	1	0	1	1	0	0	3
SOUTHBOUND	1	0	2	0	1	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED
EASTBOUND	116	N/A	14	N/A	4	N/A
NORTHBOUND	280	N/A	438	438	N/A	N/A
SOUTHBOUND	11	N/A	238	N/A	8	N/A

EAST-WEST CRITICAL VOLUMES 118
 NORTH-SOUTH CRITICAL VOLUMES 518

 THE SUM OF CRITICAL VOLUMES 636
 NUMBER OF CRITICAL CLEARANCE INTERVALS 2
 CMA VALUE 0.424
 LEVEL OF SERVICE A

CRAIN & ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 8, DEVONSHIRE ST. & MASON AV.
DATE: 4/6/2005 INITIALS: LC PERIOD: PM PEAK HOUR
CASE: EXISTING (2004)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	84	562	138	0
EASTBOUND	134	722	127	0
NORTHBOUND	129	899	198	0
SOUTHBOUND	72	494	53	0

** NUMBER OF LANES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED	TOTAL LANES
EASTBOUND	1	0	2	1	0	0	4
NORTHBOUND	1	0	1	1	0	0	3
SOUTHBOUND	1	0	1	1	0	0	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED
EASTBOUND	134	N/A	283	283	N/A	N/A
NORTHBOUND	129	N/A	548	548	N/A	N/A
SOUTHBOUND	72	N/A	274	274	N/A	N/A

EAST-WEST CRITICAL VOLUMES	367
NORTH-SOUTH CRITICAL VOLUMES	620

THE SUM OF CRITICAL VOLUMES	987
NUMBER OF CRITICAL CLEARANCE INTERVALS	2
CMA VALUE	0.693
LEVEL OF SERVICE	B

CRAIN & ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 1, RONALD REAGAN FWY. W/B RAMPS & DE SOTO AV.
DATE: 4/6/2005 INITIALS: LC PERIOD: AM PEAK HOUR
CASE: FUTURE (2007) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	1634	0	468	118
EASTBOUND	0	0	0	0
NORTHBOUND	0	17	0	463
SOUTHBOUND	3	506	0	0

** NUMBER OF LANES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED	TOTAL LANES
EASTBOUND	0	0	0	0	0	0	0
NORTHBOUND	0	0	1	0	2	0	3
SOUTHBOUND	0	1	1	0	0	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED
EASTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	17	N/A	0	N/A
SOUTHBOUND	N/A	254	254	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 899
 NORTH-SOUTH CRITICAL VOLUMES 254

 THE SUM OF CRITICAL VOLUMES 1153
 NUMBER OF CRITICAL CLEARANCE INTERVALS 0
 CMA VALUE 0.809
 LEVEL OF SERVICE D

CRAIN & ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 2, RONALD REAGAN FWY. E/B RAMP & DE SOTO AV.
DATE: 4/6/2005 INITIALS: LC PERIOD: AM PEAK HOUR
CASE: FUTURE (2007) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	RIGHT TURNS	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	0	0	0
EASTBOUND	2	1	0	834
NORTHBOUND	0	474	0	1360
SOUTHBOUND	4	2137	0	0

** NUMBER OF LANES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED	TOTAL LANES
WESTBOUND	0	0	0	0	0	0	0
EASTBOUND	0	1	0	0	1	0	2
NORTHBOUND	0	0	1	1	1	0	3
SOUTHBOUND	1	0	2	0	0	0	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED
WESTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
EASTBOUND	N/A	3	N/A	N/A	0	N/A
NORTHBOUND	N/A	N/A	237	N/A	0	N/A
SOUTHBOUND	4	N/A	1068	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 3
 NORTH-SOUTH CRITICAL VOLUMES 1068

 THE SUM OF CRITICAL VOLUMES 1071
 NUMBER OF CRITICAL CLEARANCE INTERVALS 0
 CMA VALUE 0.714
 LEVEL OF SERVICE C

CRAIN & ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 3, RINALDI ST. & DE SOTO AV.
DATE: 4/6/2005 INITIALS: LC PERIOD: AM PEAK HOUR
CASE: FUTURE (2007) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	RIGHT TURNS	
			MIN ON GREEN	MAX ON RED
WESTBOUND	782	0	0	87
EASTBOUND	0	0	0	0
NORTHBOUND	0	1523	258	215
SOUTHBOUND	178	1807	0	0

** NUMBER OF LANES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED	TOTAL LANES
EASTBOUND	0	0	0	0	0	0	0
NORTHBOUND	0	0	2	0	1	0	3
SOUTHBOUND	1	0	2	0	0	0	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED
EASTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	762	N/A	258	N/A
SOUTHBOUND	178	N/A	904	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 430
 NORTH-SOUTH CRITICAL VOLUMES 940

 THE SUM OF CRITICAL VOLUMES 1370
 NUMBER OF CRITICAL CLEARANCE INTERVALS 3
 CMA VALUE 0.961
 LEVEL OF SERVICE E

CRAIN & ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 4, TULSA ST. & DE SOTO AV.
DATE: 4/6/2005 INITIALS: LC PERIOD: AM PEAK HOUR
CASE: FUTURE (2007) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	1	0	67	0
EASTBOUND	0	0	0	0
NORTHBOUND	0	1817	0	23
SOUTHBOUND	0	2921	0	0

** NUMBER OF LANES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED	TOTAL LANES
EASTBOUND	0	0	0	0	0	1	1
NORTHBOUND	1	0	2	0	1	0	4
SOUTHBOUND	0	0	2	0	1	0	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED
EASTBOUND	N/A	N/A	N/A	N/A	N/A	0
NORTHBOUND	0	N/A	908	N/A	0	N/A
SOUTHBOUND	N/A	N/A	1460	N/A	0	N/A

EAST-WEST CRITICAL VOLUMES 68
 NORTH-SOUTH CRITICAL VOLUMES 1460

 THE SUM OF CRITICAL VOLUMES 1528
 NUMBER OF CRITICAL CLEARANCE INTERVALS 0
 CMA VALUE 1.072
 LEVEL OF SERVICE F

CRAIN & ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 5, CHATSWORTH ST. & DE SOTO AV.
DATE: 4/6/2005 INITIALS: LC PERIOD: AM PEAK HOUR
CASE: FUTURE (2007) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	25	248	0	150
EASTBOUND	202	308	46	0
NORTHBOUND	30	1402	17	0
SOUTHBOUND	313	2100	345	101

** NUMBER OF LANES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED	TOTAL LANES
EASTBOUND	1	0	1	1	0	0	3
NORTHBOUND	1	0	2	1	0	0	4
SOUTHBOUND	1	0	2	0	1	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED
EASTBOUND	202	N/A	177	177	N/A	N/A
NORTHBOUND	30	N/A	473	473	N/A	N/A
SOUTHBOUND	313	N/A	1050	N/A	345	N/A

EAST-WEST CRITICAL VOLUMES 450
 NORTH-SOUTH CRITICAL VOLUMES 1080

 THE SUM OF CRITICAL VOLUMES 1530
 NUMBER OF CRITICAL CLEARANCE INTERVALS 3
 CMA VALUE 1.074
 LEVEL OF SERVICE F

CRAIN & ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 6, DEVONSHIRE ST. & DE SOTO AV.
DATE: 4/6/2005 INITIALS: LC PERIOD: AM PEAK HOUR
CASE: FUTURE (2007) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	RIGHT TURNS	
			MIN ON GREEN	MAX ON RED
WESTBOUND	340	919	0	114
EASTBOUND	359	870	122	0
NORTHBOUND	198	1181	124	0
SOUTHBOUND	128	1745	94	0

** NUMBER OF LANES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED	TOTAL LANES
	WESTBOUND	2	0	2	0	1	0
EASTBOUND	2	0	1	1	0	0	4
NORTHBOUND	2	0	2	1	0	0	5
SOUTHBOUND	2	0	2	1	0	0	5

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED
	WESTBOUND	187	N/A	460	N/A	0
EASTBOUND	197	N/A	496	496	N/A	N/A
NORTHBOUND	109	N/A	435	435	N/A	N/A
SOUTHBOUND	70	N/A	613	613	N/A	N/A

EAST-WEST CRITICAL VOLUMES	683
NORTH-SOUTH CRITICAL VOLUMES	722

THE SUM OF CRITICAL VOLUMES	1405
NUMBER OF CRITICAL CLEARANCE INTERVALS	4
CMA VALUE	1.022
LEVEL OF SERVICE	F

CRAIN & ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 7, CHATSWORTH ST. & MASON AV.
DATE: 4/6/2005 INITIALS: LC PERIOD: AM PEAK HOUR
CASE: FUTURE (2007) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	52	39	0	15
EASTBOUND	100	32	399	78
NORTHBOUND	156	432	12	0
SOUTHBOUND	2	1167	0	146

** NUMBER OF LANES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED	TOTAL LANES
EASTBOUND	1	0	1	0	1	0	3
NORTHBOUND	1	0	1	1	0	0	3
SOUTHBOUND	1	0	2	0	1	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED
EASTBOUND	100	N/A	32	N/A	399	N/A
NORTHBOUND	156	N/A	222	222	N/A	N/A
SOUTHBOUND	2	N/A	584	N/A	0	N/A

EAST-WEST CRITICAL VOLUMES 451
 NORTH-SOUTH CRITICAL VOLUMES 740

 THE SUM OF CRITICAL VOLUMES 1191
 NUMBER OF CRITICAL CLEARANCE INTERVALS 2
 CMA VALUE 0.794
 LEVEL OF SERVICE C