

APPENDIX K

YEAR 2030 FACTORING WORKSHEETS

Year 2030

Intersection 1

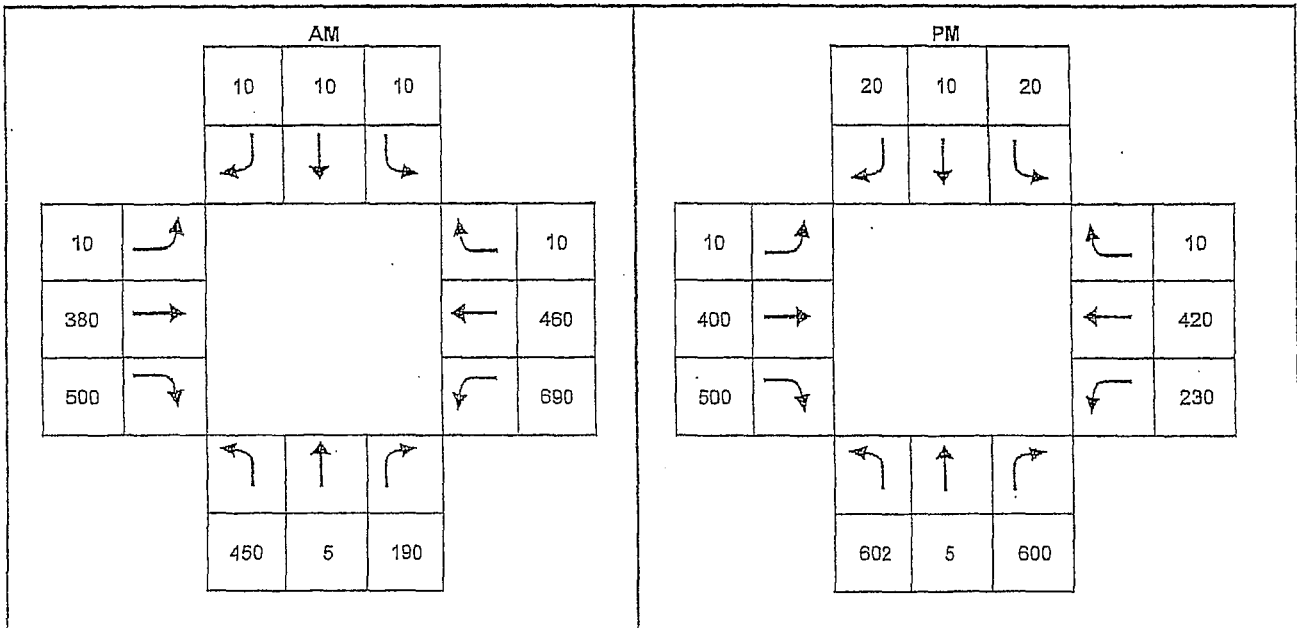
Analyst: Jacob Swirn
 Intersection: El Camino Real / Via de la Valle
 Future Condition: Year 2030
 Date: 10/26/2010
 Company: Urban Systems Associates, Inc.
 Project Number: 002407
 Intersection Control: Signalized

E/W Street Name: Via de la Valle
 N/S Street Name: El Camino Real

Factored Turns

Note: Year 2030 volumes come from the I-5 / SR-56 NB Connector Study by LLG.

Turn Movement	Near Term turn (v) AM	Near Term turn (v) PM	Near Term ADT	Year 2030 ADT	Increase %	Year 2030 turn (v) AM	Year 2030 turn (v) PM
NLT						450	602
NTH						5	5
NRT						190	600
SLT						10	20
STH						10	10
SRT						10	20
ELT						10	10
ETH						380	400
ERT						500	500
WLT						690	230
WTH						460	420
WRT						10	10



Delay

22.2

LOS

C

Delay

19.1

LOS

B

Year 2030

Intersection 2

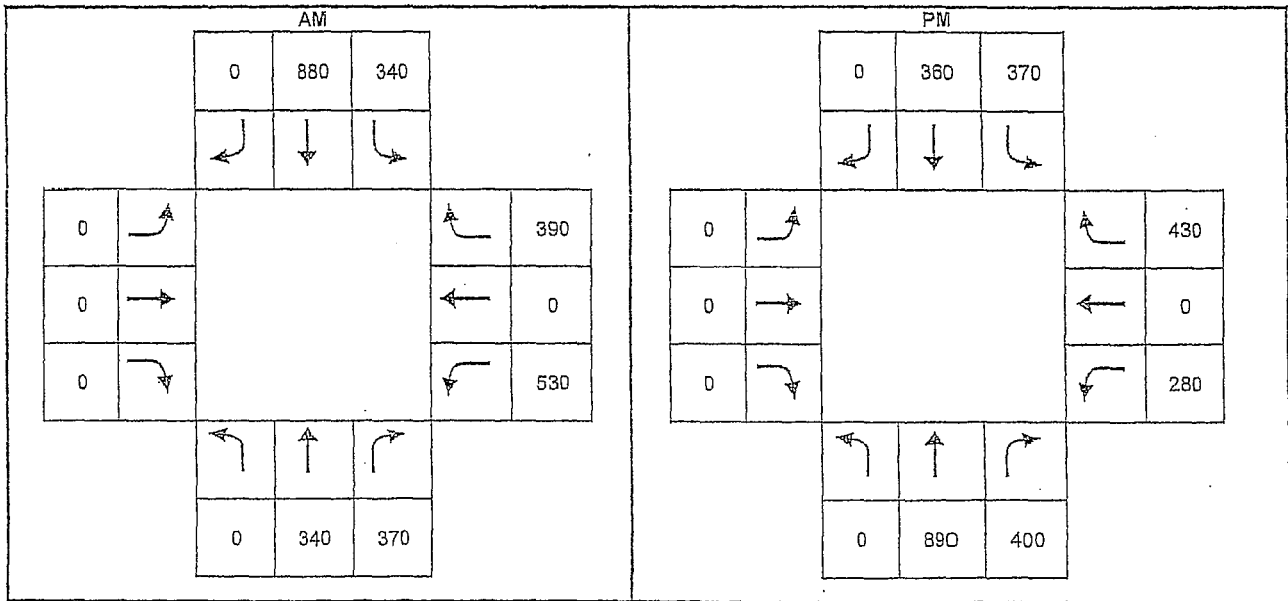
Analyst: Jacob Swim
 Intersection: El Camino Real / San Dieguito Road
 Future Condition: Year 2030
 Date: 10/26/2010
 Company: Urban Systems Associates, Inc.
 Project Number: 002407
 Intersection Control: Signalized

E/W Street Name: San Dieguito Road
 N/S Street Name: El Camino Real

Factored Turns

Note: Year 2030 volumes come from the I-5 / SR-56 NB Connector Study by LLG.

Turn	Near Term	Near Term	Near Term	Year 2030	Increase	Year 2030	Year 2030
Movement	turn (v) AM	turn (v) PM	ADT	ADT	%	turn (v) AM	turn (v) PM
NLT						0	0
NTH						340	890
NRT						370	400
SLT						340	370
STH						880	360
SRT						0	0
ELT						0	0
ETH						0	0
ERT						0	0
WLT						530	280
WTH						0	0
WRT						390	430



Delay

24.2

LOS

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Delay

47.2

LOS

D

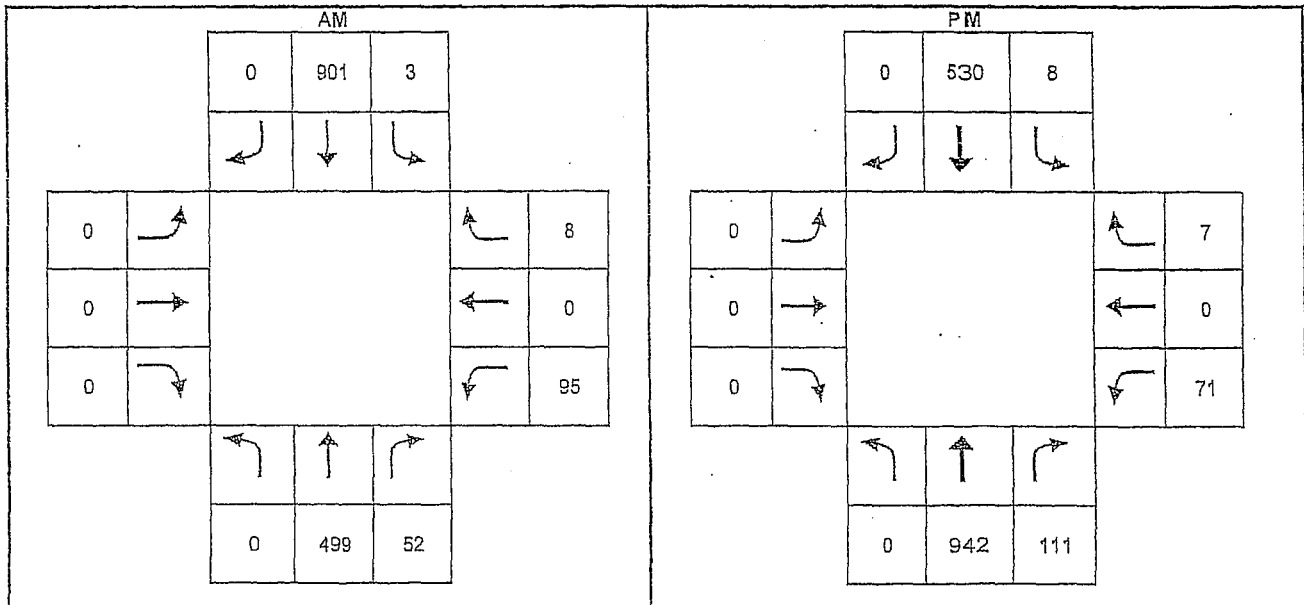
Year 2030

Intersection 3

Analyst: Jacob Swim
 Intersection: El Camino Real / Derby Downs Road
 Future Condition: Year 2030
 Date: 10/26/2010
 Company: Urban Systems Associates, Inc.
 Project Number: 002407
 Intersection Control: Signalized

E/W Street Name: Derby Downs Rd.
 N/S Street Name: El Camino Real
 Factored Turns

Turn Movement	Near Term turn (v) AM	Near Term turn (v) PM	Near Term ADT	Year 2030 ADT	Increase %	Year 2030 turn (v) AM	Year 2030 turn (v) PM
NLT	0	0	No Volume	No Volume	100%	0	0
NTH	456	861	26,500	29,000	109%	499	942
NRT	52	111	No Volume	No Volume	100%	52	111
SLT	3	8	No Volume	No Volume	100%	3	8
STH	823	484	26,500	29,000	109%	901	530
SRT	0	0	No Volume	No Volume	100%	0	0
ELT	0	0	No Volume	No Volume	100%	0	0
ETH	0	0	No Volume	No Volume	100%	0	0
ERT	0	0	No Volume	No Volume	100%	0	0
WLT	87	65	26,500	29,000	109%	95	71
WTH	0	0	No Volume	No Volume	100%	0	0
WRT	7	6	26,500	29,000	109%	8	7



Delay	LOS
4.3	A

Delay	LOS
5.1	A

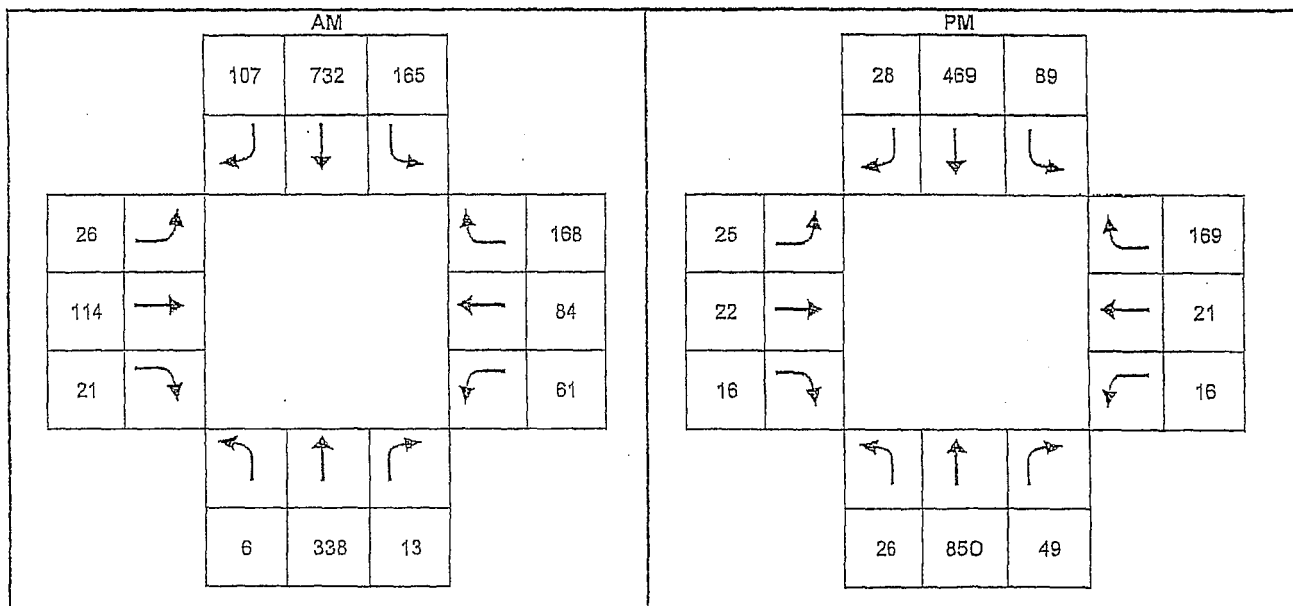
Year 2030

Intersection 4

Analyst: Jacob Swim
 Intersection: El Camino Real / Half Mile Drive
 Future Condition: Year 2030
 Date: 10/26/2010
 Company: Urban Systems Associates, Inc.
 Project Number: 002407
 Intersection Control: Signalized

E/W Street Name: Half Mile Dr.
 N/S Street Name: El Camino Real
 Factored Turns

Turn Movement	Near Term turn (v) AM	Near Term turn (v) PM	Near Term ADT	Year 2030 ADT	Increase %	Year 2030 turn (v) AM	Year 2030 turn (v) PM
NLT	6	26	No Volume	No Volume	100%	6	26
NTH	309	777	26,500	29,000	109%	338	850
NRT	13	49	No Volume	No Volume	100%	13	49
SLT	165	89	No Volume	No Volume	100%	165	89
STH	668	428	26,500	29,000	109%	732	469
SRT	107	28	No Volume	No Volume	100%	107	28
ELT	24	23	26,500	29,000	109%	26	25
ETH	114	22	No Volume	No Volume	100%	114	22
ERT	20	14	26,500	29,000	109%	21	16
WLT	56	14	26,500	29,000	109%	61	16
WTH	84	21	No Volume	No Volume	100%	84	21
WRT	153	155	26,500	29,000	109%	168	169



Delay
22.9

LOS
C

Delay
14.0

LOS
B

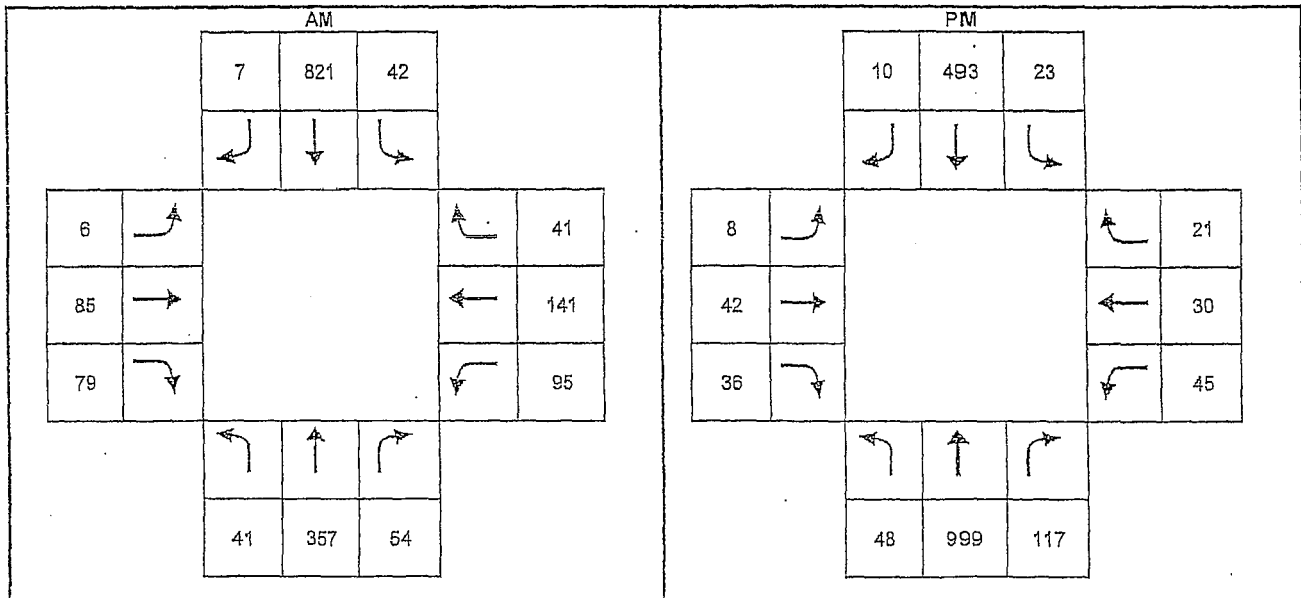
Year 2030

Intersection 5

Analyst: Jacob Swim
 Intersection: El Camino Real / Quarter Mile Drive
 Future Condition: Year 2030
 Date: 10/26/2010
 Company: Urban Systems Associates, Inc.
 Project Number: 002407
 Intersection Control: Signalized

E/W Street Name: Quarter Mile Dr.
 N/S Street Name: El Camino Real
 Factored Turns

Turn Movement	Near Term turn (v) AM	Near Term turn (v) PM	Near Term ADT	Year 2030 ADT	Increase %	Year 2030 turn (v) AM	Year 2030 turn (v) PM
NLT	41	48	No Volume	No Volume	100%	41	48
NTH	327	913	26,500	29,000	109%	357	999
NRT	54	117	No Volume	No Volume	100%	54	117
SLT	42	23	No Volume	No Volume	100%	42	23
STH	750	450	26,500	29,000	109%	821	493
SRT	7	10	No Volume	No Volume	100%	7	10
ELT	5	7	26,500	29,000	109%	6	8
ETH	85	42	No Volume	No Volume	100%	85	42
ERT	72	33	26,500	29,000	109%	79	36
WLT	87	41	26,500	29,000	109%	95	45
WTH	141	30	No Volume	No Volume	100%	141	30
WRT	37	20	26,500	29,000	109%	41	21



Delay

20.6

LOS

C

Delay

12.1

LOS

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Year 2030

Intersection 6

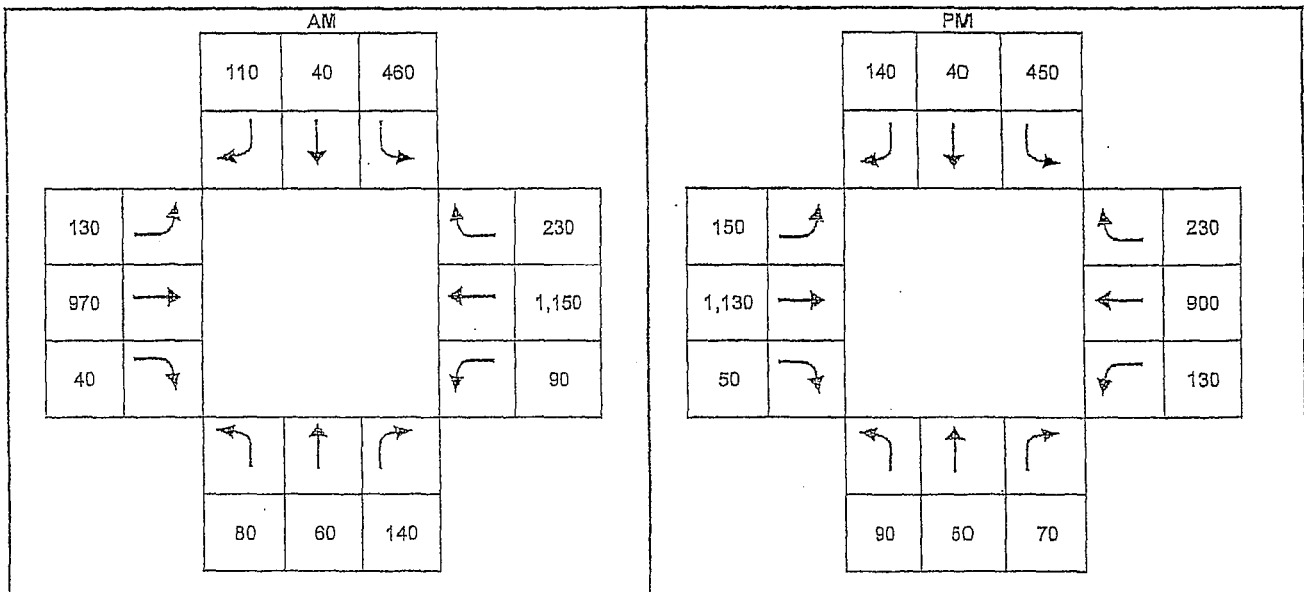
Analyst: Jacob Swim
 Intersection: Del Mar Heights Road / Mango Drive
 Future Condition: Year 2030
 Date: 10/26/2010
 Company: Urban Systems Associates, Inc.
 Project Number: 002407
 Intersection Control: Signalized

E/W Street Name: Del Mar Heights Rd.
 N/S Street Name: Mango Dr.

Factored Turns

Note: Year 2030 volumes come from the I-5 / SR-56 NB Connector Study by LLG.

Turn Movement	Near Term turn (v) AM	Near Term turn (v) PM	Near Term ADT	Year 2030 ADT	Increase %	Year 2030 turn (v) AM	Year 2030 turn (v) PM
NLT						80	90
NTH						60	50
NRT						140	70
SLT						460	450
STH						40	40
SRT						110	140
ELT						130	150
ETH						970	1130
ERT						40	50
WLT						90	130
WTH						1150	900
WRT						230	230



Delay

36.8

LOS

D

Delay

29.3

LOS

C

Year 2030

Intersection 7

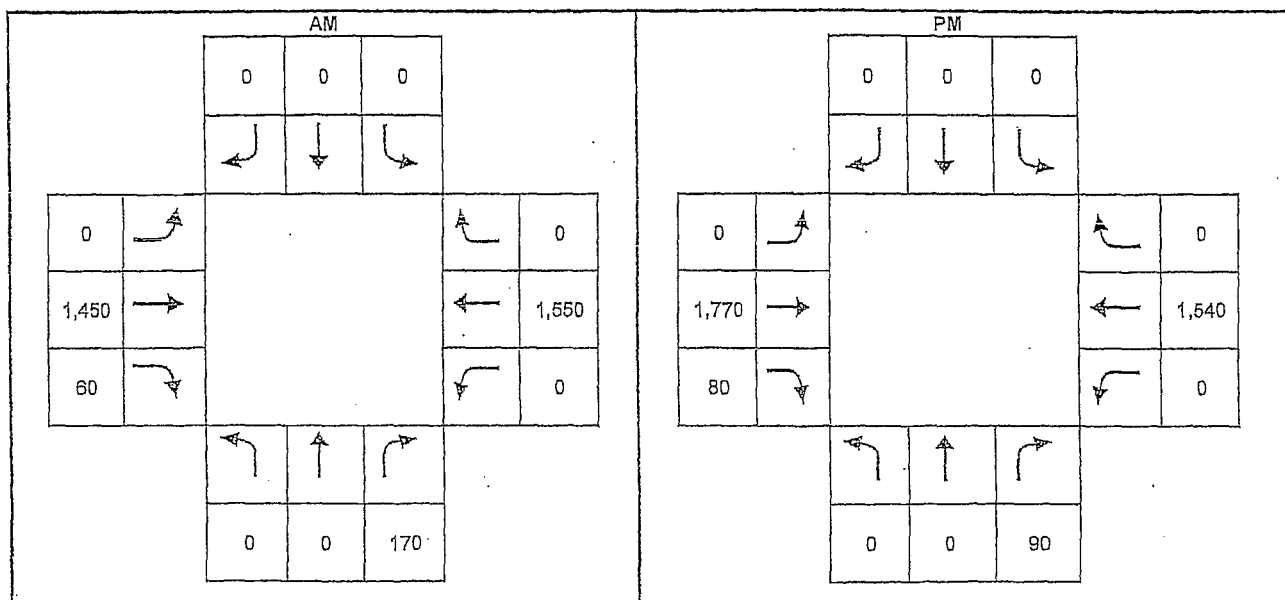
Analyst: Jacob Swim
 Intersection: Del Mar Heights Road / Portofino Drive
 Future Condition: Year 2030
 Date: 10/26/2010
 Company: Urban Systems Associates, Inc.
 Project Number: 002407
 Intersection Control: Unsignalized

E/W Street Name: Del Mar Heights Rd.
 N/S Street Name: Portofino Dr.

Factored Turns

Note: Year 2030 volumes come from the I-5 / SR-56 NB Connector Study by LLG.

Turn Movement	Near Term turn (v) AM	Near Term turn (v) PM	Near Term ADT	Year 2030 ADT	Increase %	Year 2030 turn (v) AM	Year 2030 turn (v) PM
NLT						0	0
NTH						0	0
NRT						170	90
SLT						0	0
STH						0	0
SRT						0	0
ELT						0	0
ETH						1450	1770
ERT						60	80
WLT						0	0
WTH						1550	1540
WRT						0	0



Delay
9.8

LOS
A

Delay
9.6

LOS
A

Year 2030

Intersection 8

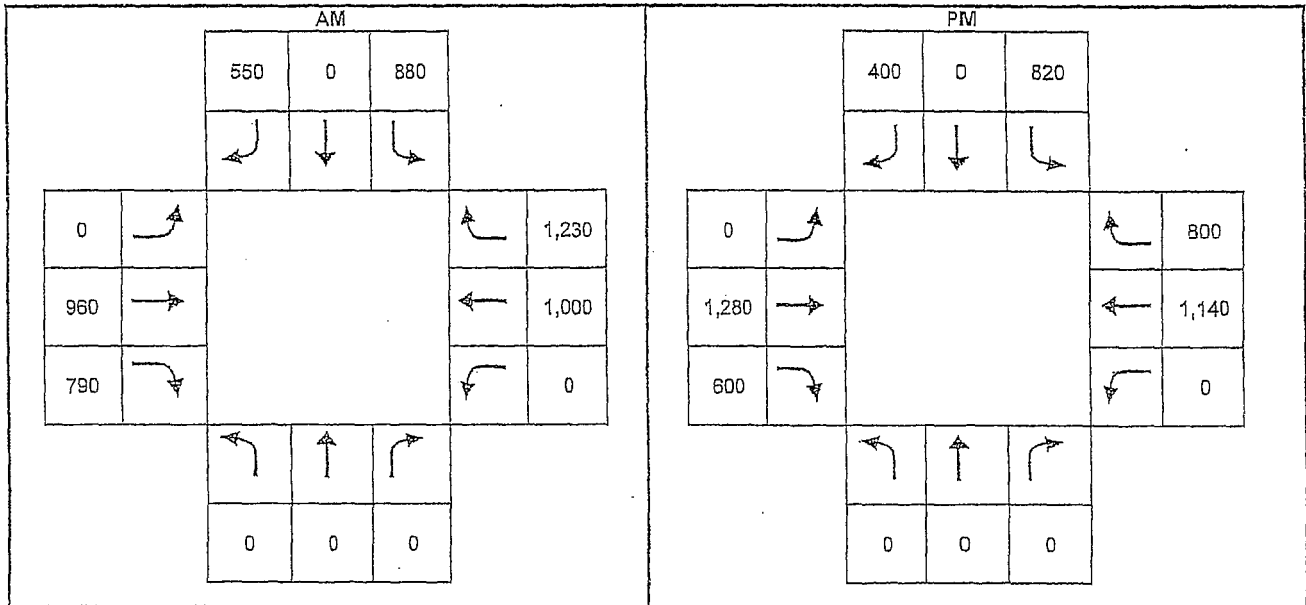
Analyst: Jacob Swim
 Intersection: Del Mar Heights Road / I-5 SB Ramps
 Future Condition: Year 2030
 Date: 10/26/2010
 Company: Urban Systems Associates, Inc.
 Project Number: 002407
 Intersection Control: Signalized

E/W Street Name: Del Mar Heights Rd.
 N/S Street Name: I-5 SB Ramps

Factored Turns

Note: Year 2030 volumes come from the I-5 / SR-56 NB Connector Study by LLG.

Turn Movement	Near Term turn (v) AM	Near Term turn (v) PM	Near Term ADT	Year 2030 ADT	Increase %	Year 2030 turn (v) AM	Year 2030 turn (v) PM
NLT						0	0
NTH						0	0
NRT						0	0
SLT						880	820
STH						0	0
SRT						550	400
ELT						0	0
ETH						960	1280
ERT						790	600
WLT						0	0
WTH						1000	1140
WRT						1230	800



Delay
14.8

LOS
B

Delay
14.9

LOS
B

Year 2030

Intersection 9

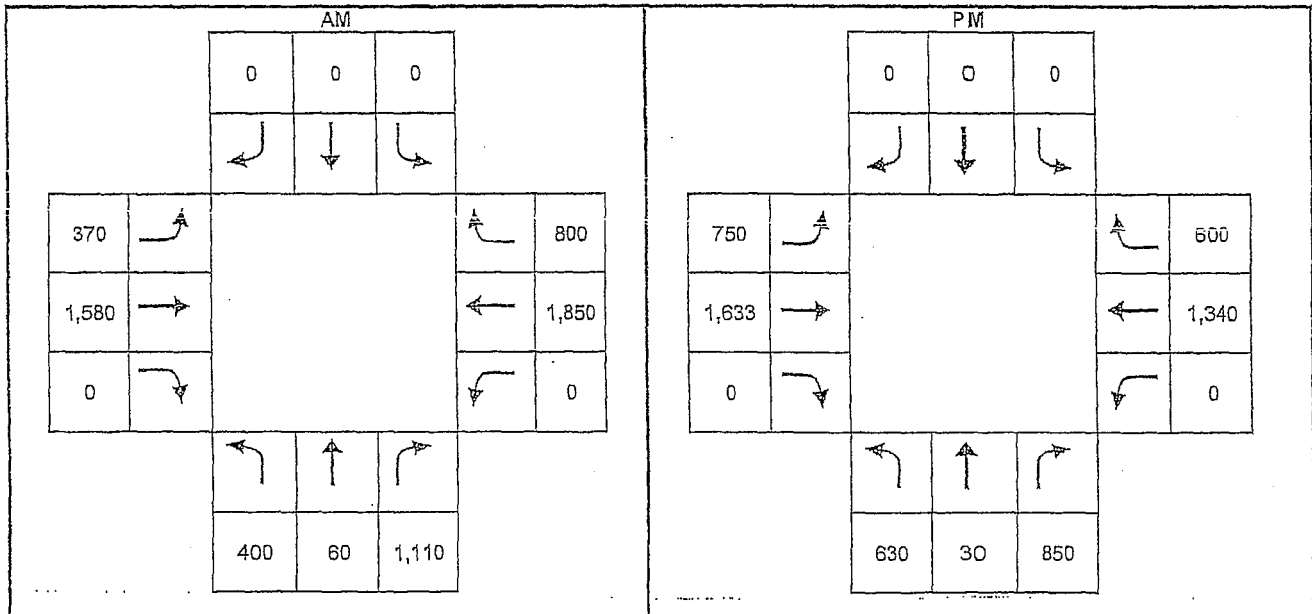
Analyst: Jacob Swim
 Intersection: Del Mar Heights Road / I-5 NB Ramps
 Future Condition: Year 2030
 Date: 10/26/2010
 Company: Urban Systems Associates, Inc.
 Project Number: 002407
 Intersection Control: Signalized

E/W Street Name: Del Mar Heights Rd.
 N/S Street Name: I-5 NB Ramps

Factored Turns

Note: Year 2030 volumes come from the I-5 / SR-56 NB Connector Study by LLG.

Turn Movement	Near Term turn (v) AM	Near Term turn (v) PM	Near Term ADT	Year 2030 ADT	Increase %	Year 2030 turn (v) AM	Year 2030 turn (v) PM
NLT						400	630
NTH						60	30
NRT						1110	850
SLT						0	0
STH						0	0
SRT						0	0
ELT						370	750
ETH						1580	1633
ERT						0	0
WLT						0	0
WTH						1850	1340
WRT						800	600



Delay	LOS
67.2	E

Delay	LOS
53.0	D

Year 2030

Intersection 10

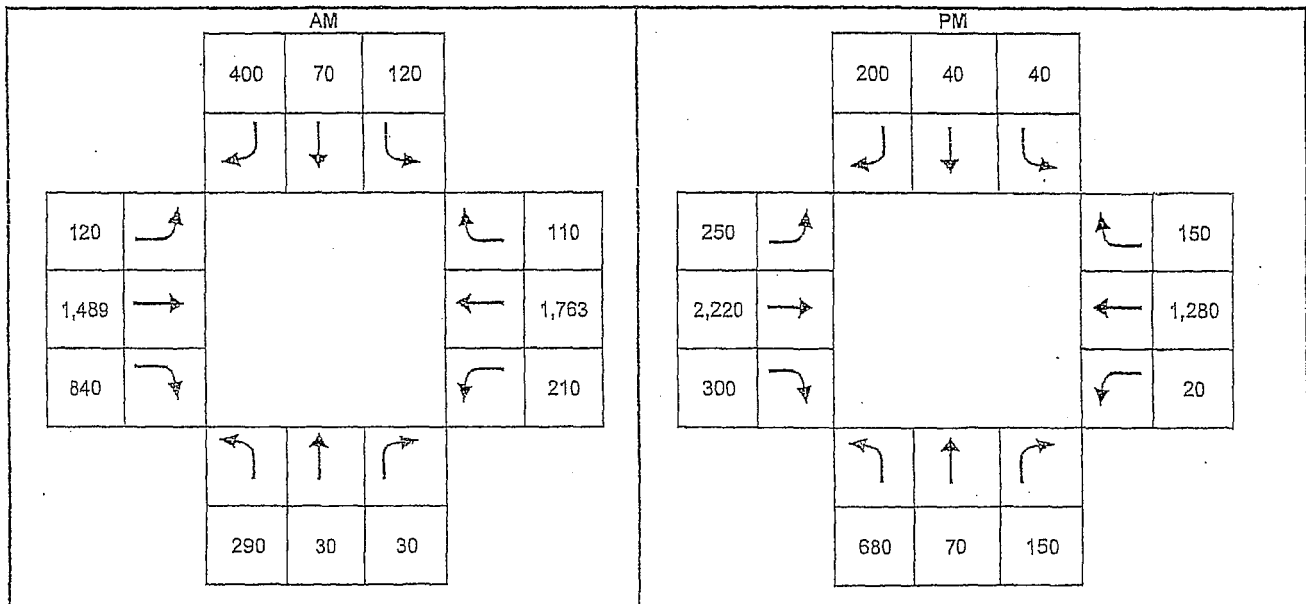
Analyst: Jacob Swim
 Intersection: Del Mar Heights Road / High Bluff Drive
 Future Condition: Year 2030
 Date: 10/26/2010
 Company: Urban Systems Associates, Inc.
 Project Number: 002407
 Intersection Control: Signalized

E/W Street Name: Del Mar Heights Rd.
 N/S Street Name: High Bluff Dr.

Factored Turns

Note: Year 2030 volumes come from the I-5 / SR-56 NB Connector Study by LLG.

Turn Movement	Near Term turn (v) AM	Near Term turn (v) PM	Near Term ADT	Year 2030 ADT	Increase %	Year 2030 turn (v) AM	Year 2030 turn (v) PM
NLT						290	680
NTH						30	70
NRT						30	150
SLT						120	40
STH						70	40
SRT						400	200
ELT						120	250
ETH	1,401	2,089	40,648	43,200	106%	1489	2220
ERT						840	300
WLT						210	20
WTH	1,864	1,353	54,775	51,800	95%	1763	1280
WRT						110	150



Delay
44.0

LOS
D

Delay
40.1

LOS
D

Year 2030

Intersection 11

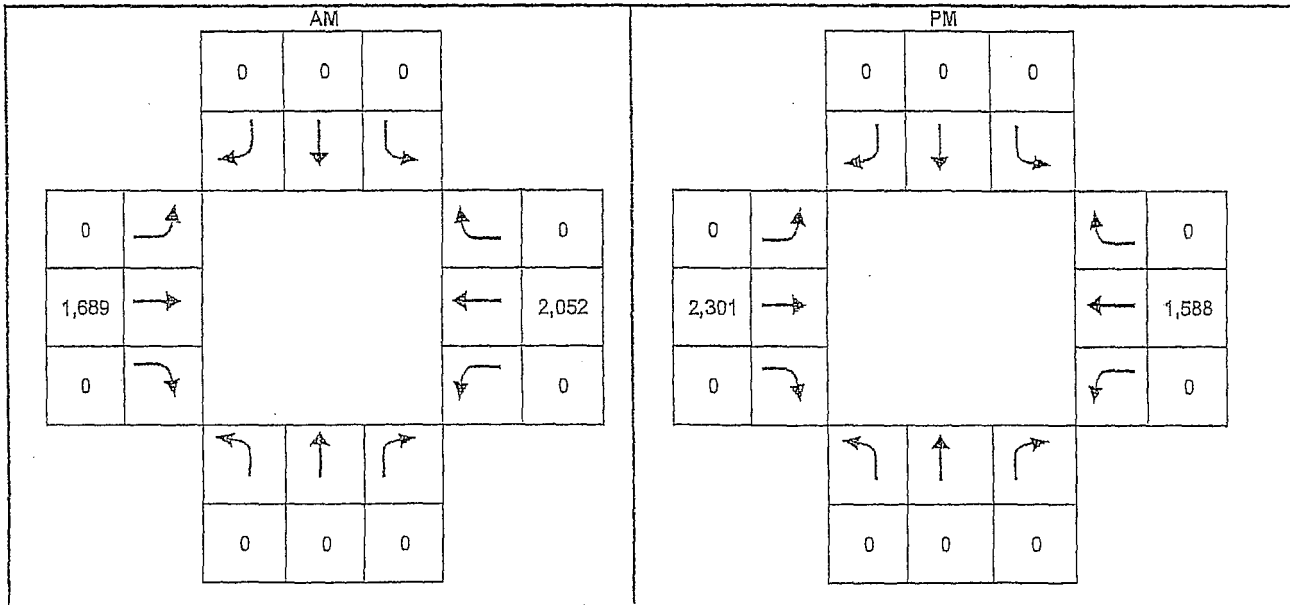
Analyst: Jacob Swim
 Intersection: Del Mar Heights Road / Third Avenue
 Future Condition: Year 2030
 Date: 10/26/2010
 Company: Urban Systems Associates, Inc.
 Project Number: 002407
 Intersection Control: Signalized

E/W Street Name: Del Mar Heights Rd.
 N/S Street Name: Third Ave.

Factored Turns

NOT BUILT

Turn Movement	Near Term turn (v) AM	Near Term turn (v) PM	Near Term ADT	Year 2030 ADT	Increase %	Year 2030 turn (v) AM	Year 2030 turn (v) PM
NLT	0	0					
NTH	0	0					
NRT	0	0					
SLT	0	0					
STH	0	0					
SRT	0	0					
ELT	0	0					
ETH	1,689	2,301				1689	2301
ERT	0	0					
WLT	0	0					
WTH	2,052	1,588				2052	1588
WRT	0	0					



Delay
DNE

LOS
DNE

Delay
DNE

LOS
DNE

Year 2030

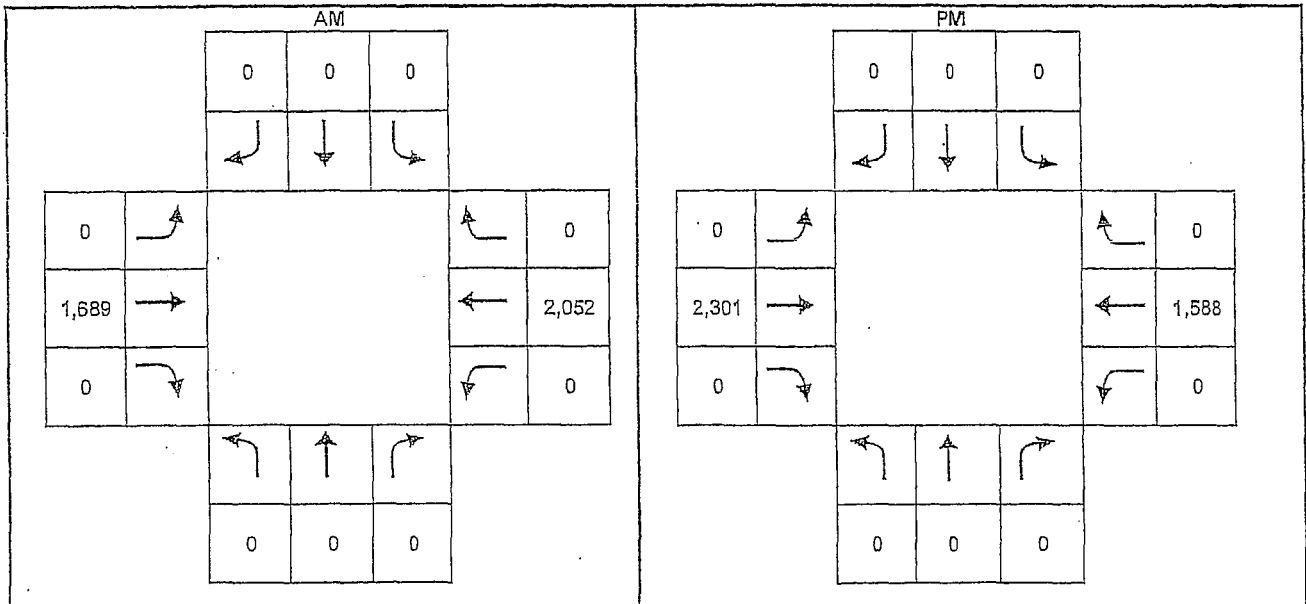
Intersection 12

Analyst: Jacob Swim
 Intersection: Del Mar Heights Road / First Avenue
 Future Condition: Year 2030
 Date: 10/26/2010
 Company: Urban Systems Associates, Inc.
 Project Number: 002407
 Intersection Control: Signalized

E/W Street Name: Del Mar Heights Rd.
 N/S Street Name: First Ave.
 Factored Turns

NOT BUILT

Turn Movement	Near Term turn (v) AM	Near Term turn (v) PM	Near Term ADT	Year 2030 ADT	Increase %	Year 2030 turn (v) AM	Year 2030 turn (v) PM
NLT	0	0					
NTH	0	0					
NRT	0	0					
SLT	0	0					
STH	0	0					
SRT	0	0					
ELT	0	0					
ETH	1,689	2,301				1689	2301
ERT	0	0					
WLT	0	0					
WTH	2,052	1,588				2052	1588
WRT	0	0					



Delay
DNE

LOS
DNE

Delay
DNE

LOS
DNE

Year 2030

Intersection 13

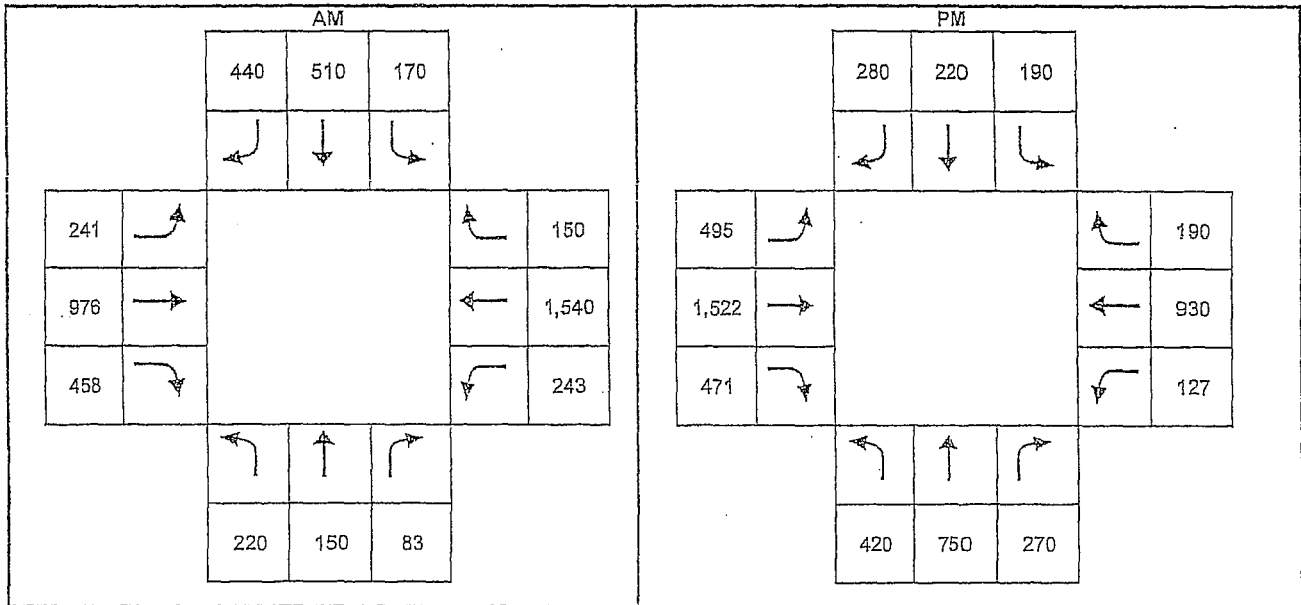
Analyst: Jacob Swim
 Intersection: Del Mar Heights Road / El Camino Real
 Future Condition: Year 2030
 Date: 10/26/2010
 Company: Urban Systems Associates, Inc.
 Project Number: 002407
 Intersection Control: Signalized

E/W Street Name: Del Mar Heights Rd.
 N/S Street Name: El Camino Real

Factored Turns

Note: Year 2030 volumes come from the I-5 / SR-56 NB Connector Study by LLG.

Turn	Near Term	Near Term	Near Term	Year 2030	Increase	Year 2030	Year 2030
Movement	turn (v) AM	turn (v) PM	ADT	ADT	%	turn (v) AM	turn (v) PM
NLT	233	444	54,775	51,800	95%	220	420
NTH						150	750
NRT	79	257	40,648	42,770	105%	83	270
SLT						170	190
STH						510	220
SRT						440	280
ELT	220	452	26,500	29,000	109%	241	495
ETH	893	1,392	39,511	43,200	109%	976	1,522
ERT	388	399	19,500	23,000	118%	458	471
WLT	206	108	19,500	23,000	118%	243	127
WTH						1,540	930
WRT						150	190



Delay

35.0

LOS

C

Delay

41.5

LOS

D

Year 2030

Intersection 14

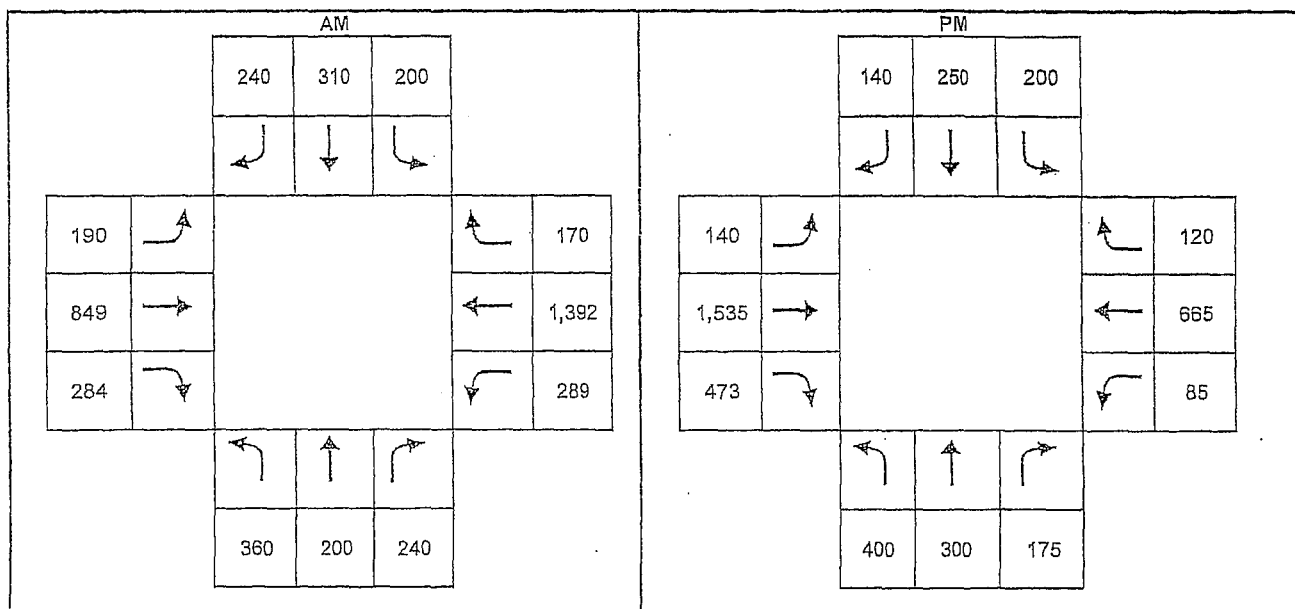
Analyst: Jacob Swim
 Intersection: Del Mar Heights Road / Carmel Country Rd
 Future Condition: Year 2030
 Date: 10/26/2010
 Company: Urban Systems Associates, Inc.
 Project Number: 002407
 Intersection Control: Signalized

E/W Street Name: Del Mar Heights Rd.
 N/S Street Name: Carmel Country Rd.

Factored Turns

Note: Year 2030 volumes come from the I-5 / SR-56 NB Connector Study by LLG.

Turn Movement	Near Term turn (v) AM	Near Term turn (v) PM	Near Term ADT	Year 2030 ADT	Increase %	Year 2030 turn (v) AM	Year 2030 turn (v) PM
NLT						360	400
NTH						200	300
NRT						240	175
SLT						200	200
STH						310	250
SRT						240	140
ELT						190	140
ETH	609	1,101	24,670	34,400	139%	849	1,535
ERT	275	458	21,570	22,280	103%	284	473
WLT	280	82	21,570	22,280	103%	289	85
WTH	1,141	545	31,440	38,370	122%	1,392	665
WRT						170	120



Delay
33.6

LOS
C

Delay
34.1

LOS
C

Year 2030

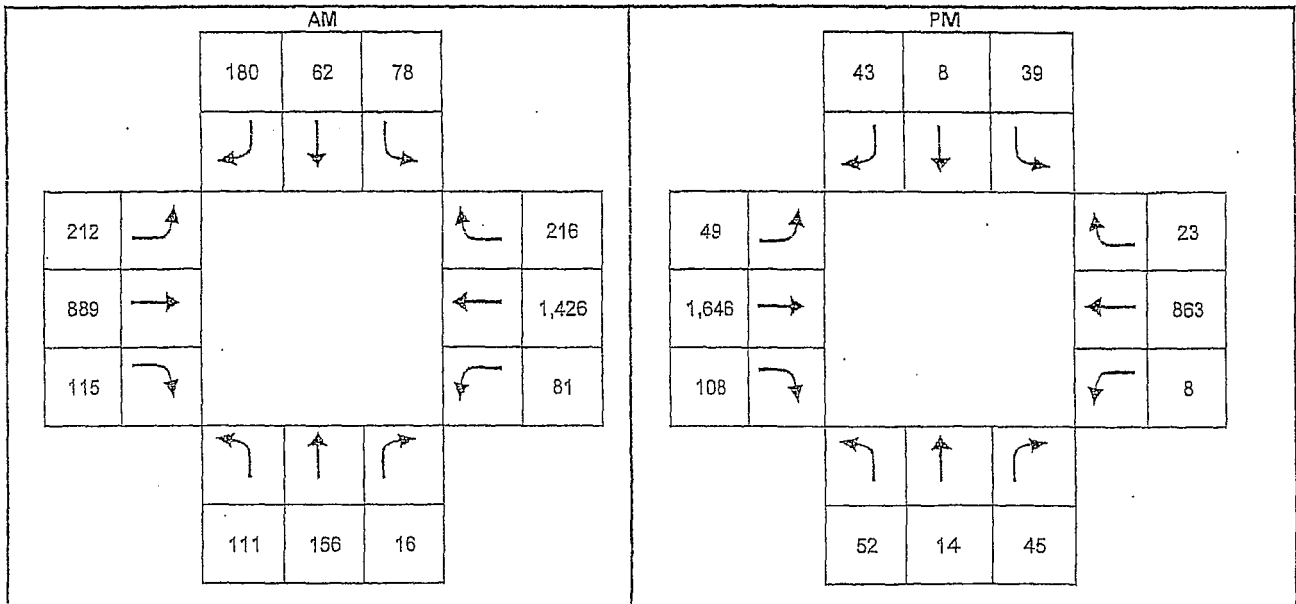
Intersection 15

Analyst: Jacob Swim
 Intersection: Del Mar Heights Road / Torrey Ridge Drive
 Future Condition: Year 2030
 Date: 10/26/2010
 Company: Urban Systems Associates, Inc.
 Project Number: 002407
 Intersection Control: Signalized

E/W Street Name: Del Mar Heights Rd.
 N/S Street Name: Torrey Ridge Dr.

Factored Turns

Turn Movement	Near Term turn (v) AM	Near Term turn (v) PM	Near Term ADT	Year 2030 ADT	Increase %	Year 2030 turn (v) AM	Year 2030 turn (v) PM
NLT	79	37	24,670	34,400	139%	111	52
NTH	156	14	No Volume	No Volume	100%	156	14
NRT	11	32	24,670	34,400	139%	16	45
SLT	56	28	24,670	34,400	139%	78	39
STH	62	8	No Volume	No Volume	100%	62	8
SRT	129	31	24,670	34,400	139%	180	43
ELT	212	49	No Volume	No Volume	100%	212	49
ETH	638	1,180	24,670	34,400	139%	889	1,646
ERT	115	108	No Volume	No Volume	100%	115	108
WLT	81	8	No Volume	No Volume	100%	81	8
WTH	1,023	619	24,670	34,400	139%	1,426	863
WRT	216	23	No Volume	No Volume	100%	216	23



Delay

29.5

LOS

C

Delay

11.9

LOS

B

Year 2030

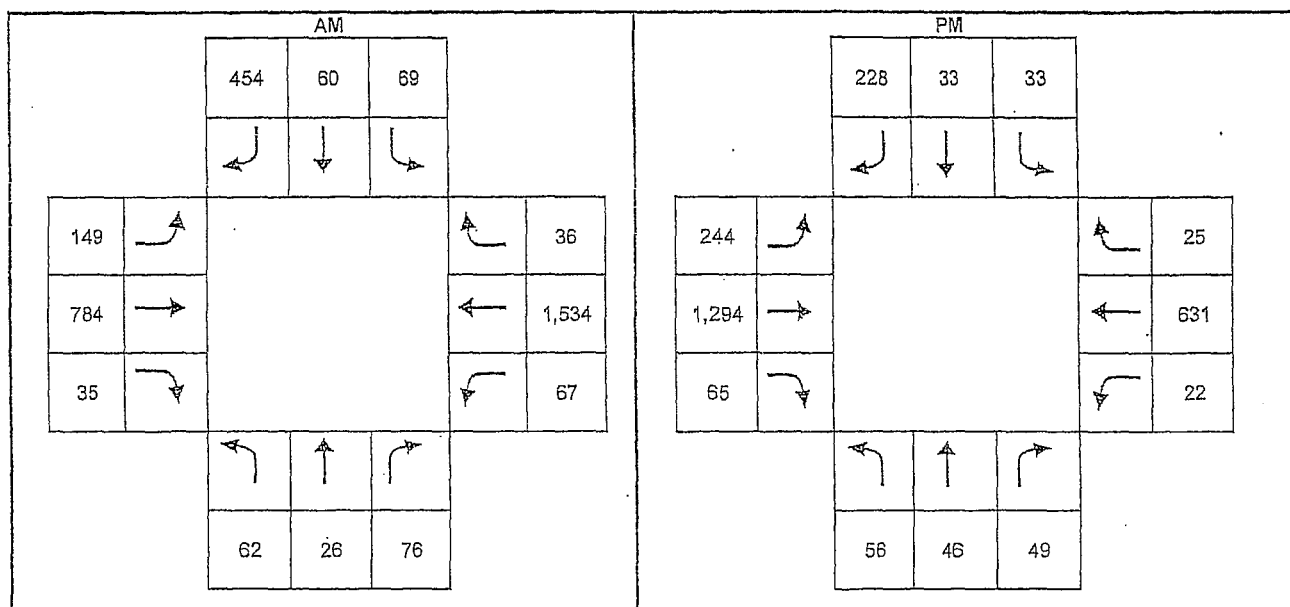
Intersection 16

Analyst: Jacob Swim
 Intersection: Del Mar Heights Road / Lansdale Drive
 Future Condition: Year 2030
 Date: 10/26/2010
 Company: Urban Systems Associates, Inc.
 Project Number: 002407
 Intersection Control: Signalized

E/W Street Name: Del Mar Heights Rd.
 N/S Street Name: Lansdale Dr.

Factored Turns

Turn	Near Term	Near Term	Near Term	Year 2030	Increase	Year 2030	Year 2030
Movement	turn (v) AM	turn (v) PM	ADT	ADT	%	turn (v) AM	turn (v) PM
NLT	44	40	24,670	34,400	139%	62	56
NTH	26	46	No Volume	No Volume	100%	26	46
NRT	55	35	24,670	34,400	139%	76	49
SLT	49	24	24,670	34,400	139%	69	33
STH	60	33	No Volume	No Volume	100%	60	33
SRT	325	164	24,670	34,400	139%	454	228
ELT	149	244	No Volume	No Volume	100%	149	244
ETH	562	928	24,670	34,400	139%	784	1294
ERT	35	65	No Volume	No Volume	100%	35	65
WLT	67	22	No Volume	No Volume	100%	67	22
WTH	1,100	452	24,670	34,400	139%	1534	631
WRT	36	25	No Volume	No Volume	100%	36	25



Delay

32.7

LOS

C

Delay

18.7

LOS

B

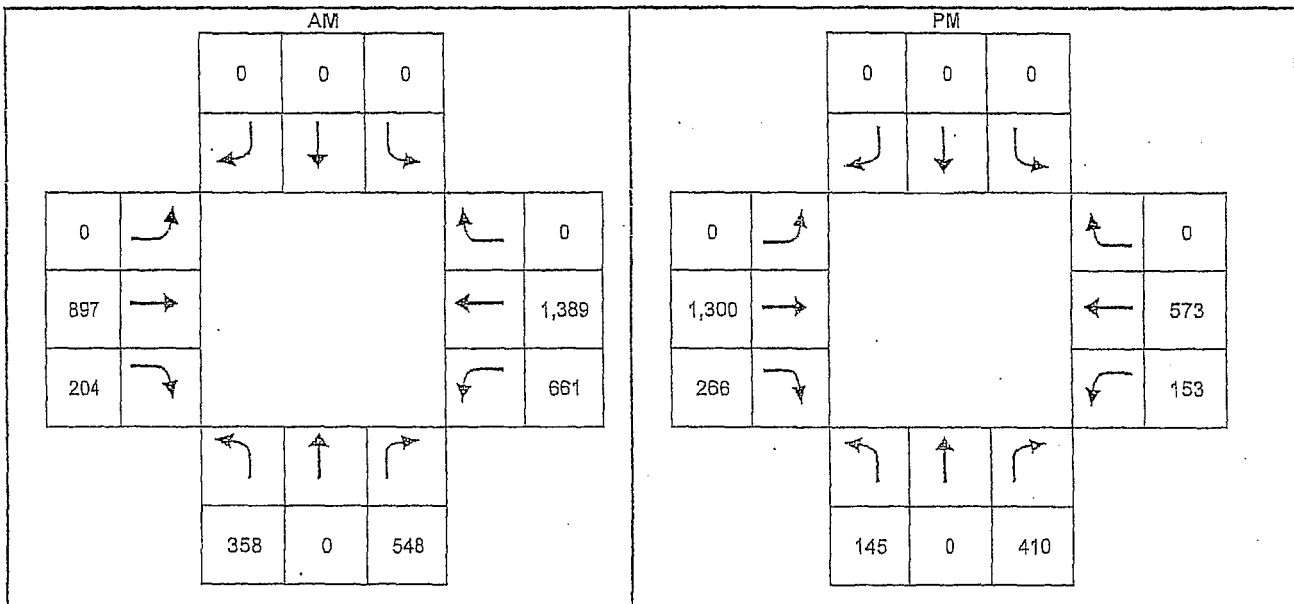
Year 2030

Intersection 17

Analyst: Jacob Swirn
 Intersection: Del Mar Heights Road / Carmel Canyon Rd
 Future Condition: Year 2030
 Date: 10/26/2010
 Company: Urban Systems Associates, Inc.
 Project Number: 002407
 Intersection Control: Signalized

E/W Street Name: Del Mar Heights Rd.
 N/S Street Name: Carmel Canyon Rd.
 Factored Turns

Turn Movement	Near Term turn (v) AM	Near Term turn (v) PM	Near Term ADT	Year 2030 ADT	Increase %	Year 2030 turn (v) AM	Year 2030 turn (v) PM
NLT	256	104	24,670	34,400	139%	358	145
NTH	0	0	No Volume	No Volume	100%	0	0
NRT	342	255	17,470	28,010	160%	548	410
SLT	0	0	No Volume	No Volume	100%	0	0
STH	0	0	No Volume	No Volume	100%	0	0
SRT	0	0	No Volume	No Volume	100%	0	0
ELT	0	0	No Volume	No Volume	100%	0	0
ETH	559	811	17,470	28,010	160%	897	1300
ERT	123	160	4,500	7,500	167%	204	266
WLT	397	92	4,500	7,500	167%	661	153
WTH	996	411	24,670	34,400	139%	1389	573
WRT	0	0	No Volume	No Volume	100%	0	0



Delay

29.4

LOS

C

Delay

16.0

LOS

B

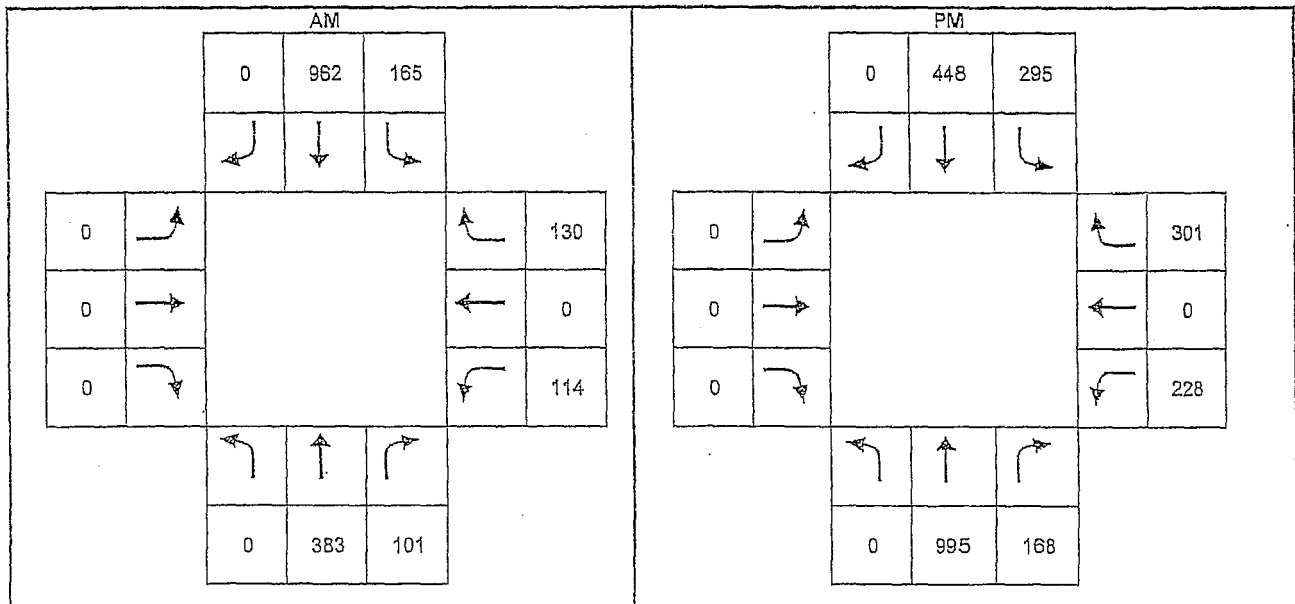
Year 2030

Intersection 18

Analyst: Jacob Swim
 Intersection: El Camino Real / Del Mar Highlands Town Ctr.
 Future Condition: Year 2030
 Date: 10/26/2010
 Company: Urban Systems Associates, Inc.
 Project Number: 002407
 Intersection Control: Signalized

E/W Street Name: Del Mar Highlands Town Ctr.
 N/S Street Name: El Camino Real
 Factored Turns

Turn	Near Term	Near Term	Near Term	Year 2030	Increase	Year 2030	Year 2030
Movement	turn (v) AM	turn (v) PM	ADT	ADT	%	turn (v) AM	turn (v) PM
NLT	0	0	No Volume	No Volume	100%	0	0
NTH	325	844	19,500	23,000	118%	383	995
NRT	101	168	No Volume	No Volume	100%	101	168
SLT	165	295	No Volume	No Volume	100%	165	295
STH	815	380	19,500	23,000	118%	962	448
SRT	0	0	No Volume	No Volume	100%	0	0
ELT	0	0	No Volume	No Volume	100%	0	0
ETH	0	0	No Volume	No Volume	100%	0	0
ERT	0	0	No Volume	No Volume	100%	0	0
WLT	97	194	19,500	23,000	118%	114	228
WTH	0	0	No Volume	No Volume	100%	0	0
WRT	110	255	19,500	23,000	118%	130	301



Delay

6.2

LOS

A

Delay

14.2

LOS

B

Year 2030

Intersection 19

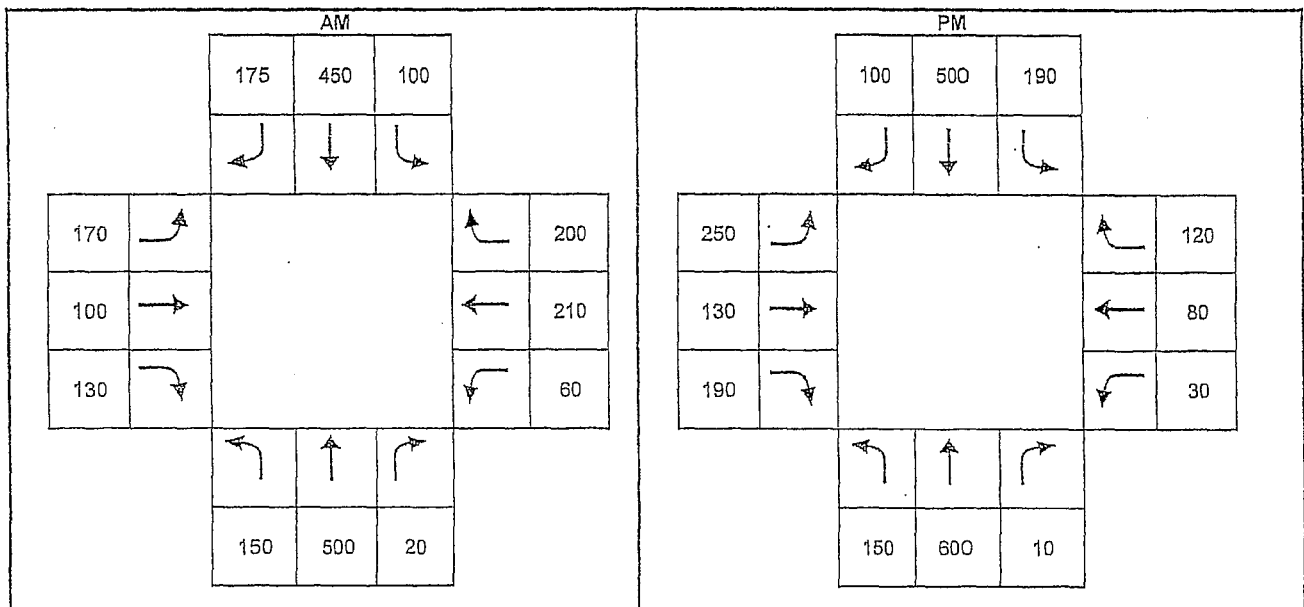
Analyst: Jacob Swim
 Intersection: Carmel Country Road / Townsgate Drive
 Future Condition: Year 2030
 Date: 10/26/2010
 Company: Urban Systems Associates, Inc.
 Project Number: 002407
 Intersection Control: Signalized

E/W Street Name: Townsgate Dr.
 N/S Street Name: Carmel Country Rd.

Factored Turns

Note: Year 2030 volumes come from the I-5 / SR-56 NB Connector Study by LLG.

Turn Movement	Near Term turn (v) AM	Near Term turn (v) PM	Near Term ADT	Year 2030 ADT	Increase %	Year 2030 turn (v) AM	Year 2030 turn (v) PM
NLT						150	150
NTH						500	600
NRT						20	10
SLT						100	190
STH						450	500
SRT						175	100
ELT						170	250
ETH						100	130
ERT						130	190
WLT						60	30
WTH						210	80
WRT						200	120



Delay
32.0

LOS
C

Delay
29.8

LOS
C

Year 2030

Intersection 20

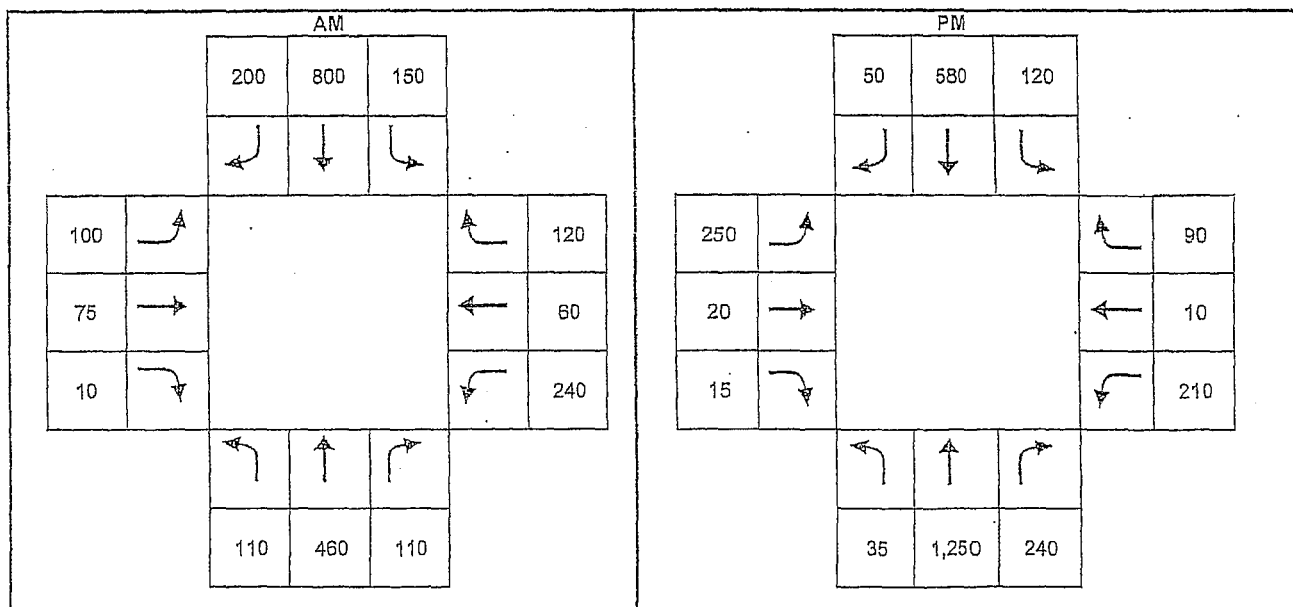
Analyst: Jacob Swim
 Intersection: El Camino Real / Townsgate Drive
 Future Condition: Year 2030
 Date: 10/26/2010
 Company: Urban Systems Associates, Inc.
 Project Number: 002407
 Intersection Control: Signalized

E/W Street Name: Townsgate Dr.
 N/S Street Name: El Camino Real

Factored Turns

Note: Year 2030 volumes come from the I-5 / SR-56 NB Connector Study by LLG.

Turn Movement	Near Term turn (v) AM	Near Term turn (v) PM	Near Term ADT	Year 2030 ADT	Increase %	Year 2030 turn (v) AM	Year 2030 turn (v) PM
NLT						110	35
NTH						460	1250
NRT						110	240
SLT						150	120
STH						800	580
SRT						200	50
ELT						100	250
ETH						75	20
ERT						10	15
WLT						240	210
WTH						60	10
WRT						120	90



Delay

22.5

LOS

C

Delay

24.3

LOS

C

Year 2030

Intersection 21

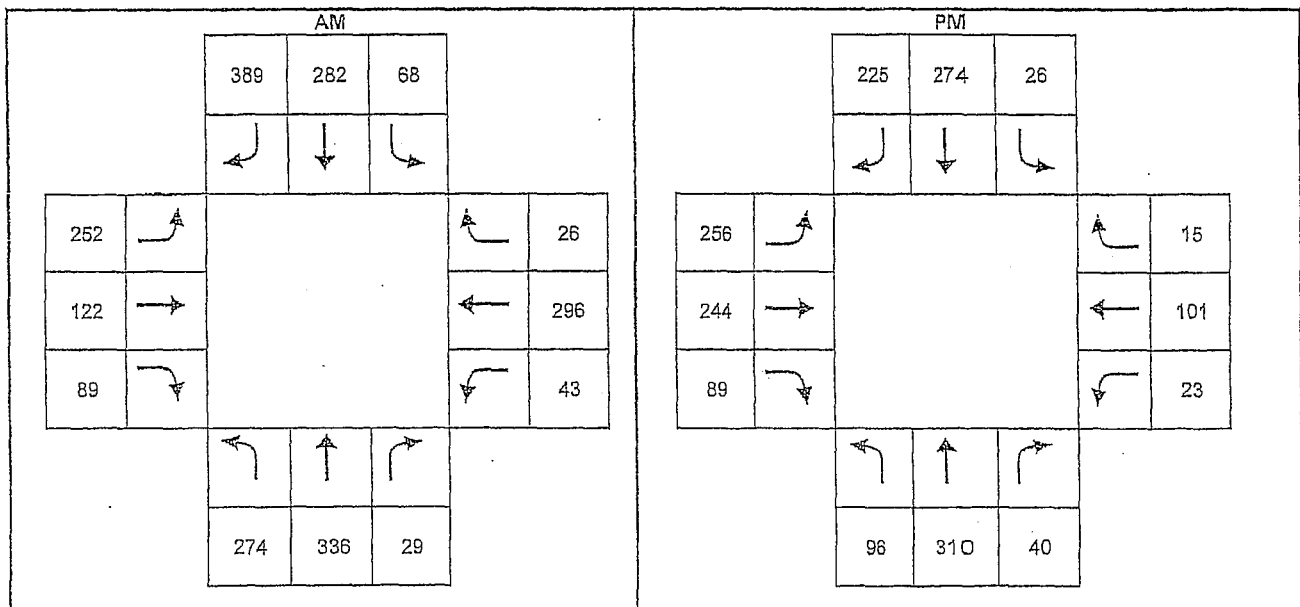
Analyst: Jacob Swim
 Intersection: Carmel Country Road / Carmel Creek Rd
 Future Condition: Year 2030
 Date: 10/26/2010
 Company: Urban Systems Associates, Inc.
 Project Number: 002407
 Intersection Control: Signalized

E/W Street Name: Carmel Creek Rd.
 N/S Street Name: Carmel Country Rd.

Factored Turns

Note: Year 2030 volumes come from the I-5 / SR-56 NB Connector Study by LLG.

Turn Movement	Near Term turn (v) AM	Near Term turn (v) PM	Near Term ADT	Year 2030 ADT	Increase %	Year 2030 turn (v) AM	Year 2030 turn (v) PM
NLT	277	97	15,180	15,000	99%	274	96
NTH	383	354	21,470	18,800	88%	336	310
NRT	29	40	No Volume	No Volume	100%	29	40
SLT	68	26	No Volume	No Volume	100%	68	26
STH	404	392	13,590	9,500	70%	282	274
SRT	393	228	15,180	15,000	99%	389	225
ELT	287	293	21,470	18,800	88%	252	256
ETH	122	244	No Volume	No Volume	100%	122	244
ERT	127	127	13,590	9,500	70%	89	89
WLT	62	33	13,590	9,500	70%	43	23
WTH	300	102	15,180	15,000	99%	296	101
WRT	30	18	21,470	18,800	88%	26	15



Delay
41.5

LOS
D

Delay
19.7

LOS
B

Year 2030

Intersection 22

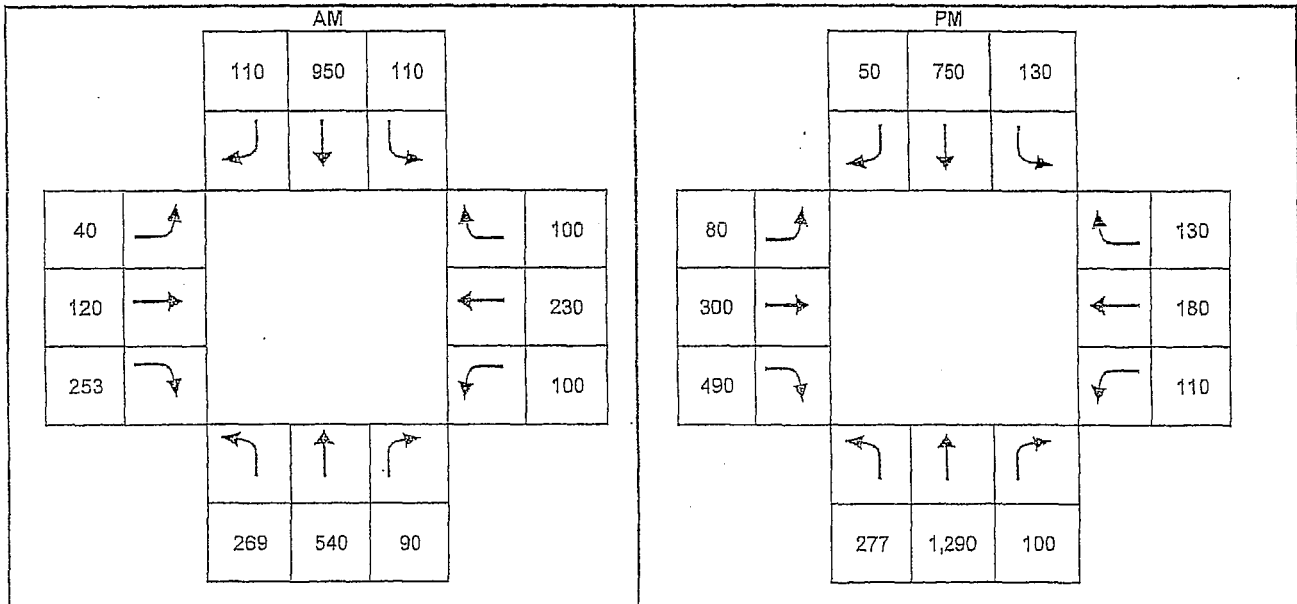
Analyst: Jacob Swim
 Intersection: El Camino Real / High Bluff Drive
 Future Condition: Year 2030
 Date: 10/26/2010
 Company: Urban Systems Associates, Inc.
 Project Number: 002407
 Intersection Control: Signalized

E/W Street Name: High Bluff Dr.
 N/S Street Name: El Camino Real

Factored Turns

Note: Year 2030 volumes come from the I-5 / SR-56 NB Connector Study by LLG.

Turn Movement	Near Term turn (v) AM	Near Term turn (v) PM	Near Term ADT	Year 2030 ADT	Increase %	Year 2030 turn (v) AM	Year 2030 turn (v) PM
NLT						269	277
NTH						540	1290
NRT						90	100
SLT						110	130
STH						950	750
SRT						110	50
ELT						40	80
ETH						120	300
ERT						253	490
WLT						100	110
WTH						230	180
WRT						100	130



Delay	LOS
22.9	C

Delay	LOS
33.6	C

Year 2030

Intersection 23

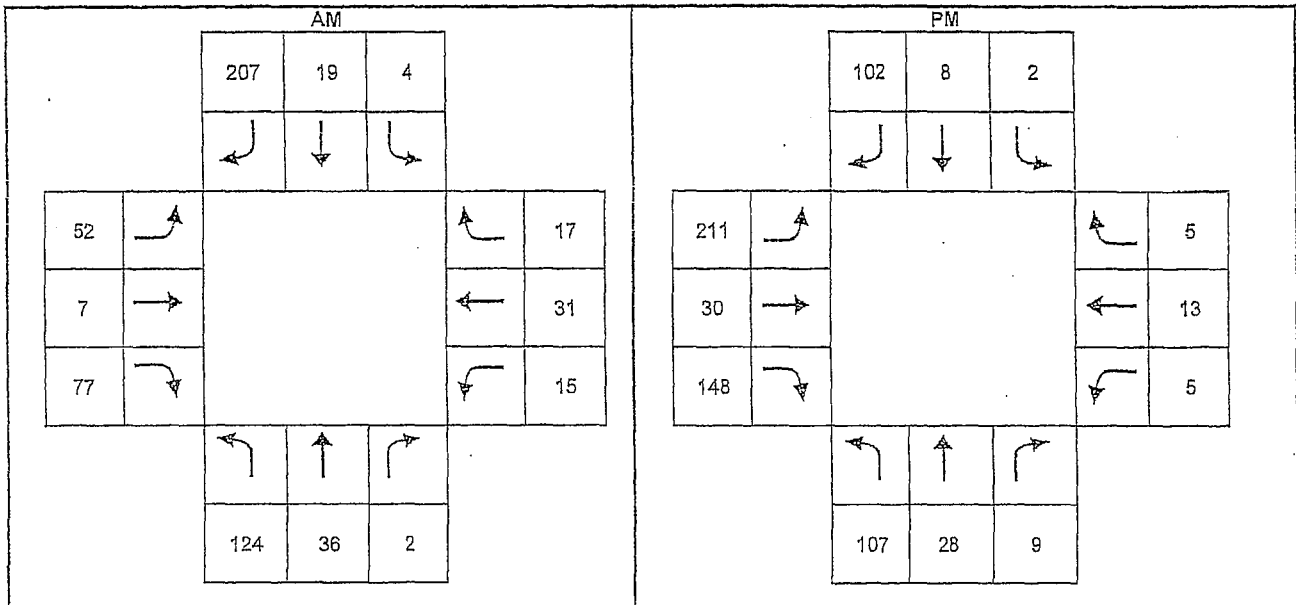
Analyst: Jacob Swim
 Intersection: Carmel View Road / High Bluff Drive
 Future Condition: Year 2030
 Date: 10/26/2010
 Company: Urban Systems Associates, Inc.
 Project Number: 002407
 Intersection Control: Unsignalized

E/W Street Name: High Bluff Dr.
 N/S Street Name: Carmel View Rd.

Factored Turns

Note: Year 2030 volumes were factored using an increase % of 115 to be consistent with other volumes increases on nearby streets

Turn Movement	Near Term turn (v) AM	Near Term turn (v) PM	Near Term ADT	Year 2030 ADT	Increase %	Year 2030 turn (v) AM	Year 2030 turn (v) PM
NLT	108	93	No Volume	No Volume	115%	124	107
NTH	31	25	No Volume	No Volume	115%	36	28
NRT	2	8	No Volume	No Volume	115%	2	9
SLT	3	2	No Volume	No Volume	115%	4	2
STH	16	7	No Volume	No Volume	115%	19	8
SRT	180	89	No Volume	No Volume	115%	207	102
ELT	45	183	No Volume	No Volume	115%	52	211
ETH	6	26	No Volume	No Volume	115%	7	30
ERT	67	129	No Volume	No Volume	115%	77	148
WLT	13	4	No Volume	No Volume	115%	15	5
WTH	27	11	No Volume	No Volume	115%	31	13
WRT	14	4	No Volume	No Volume	115%	17	5



Delay

8.9

LOS

A

Delay

9.8

LOS

A

Year 2030

Intersection 24

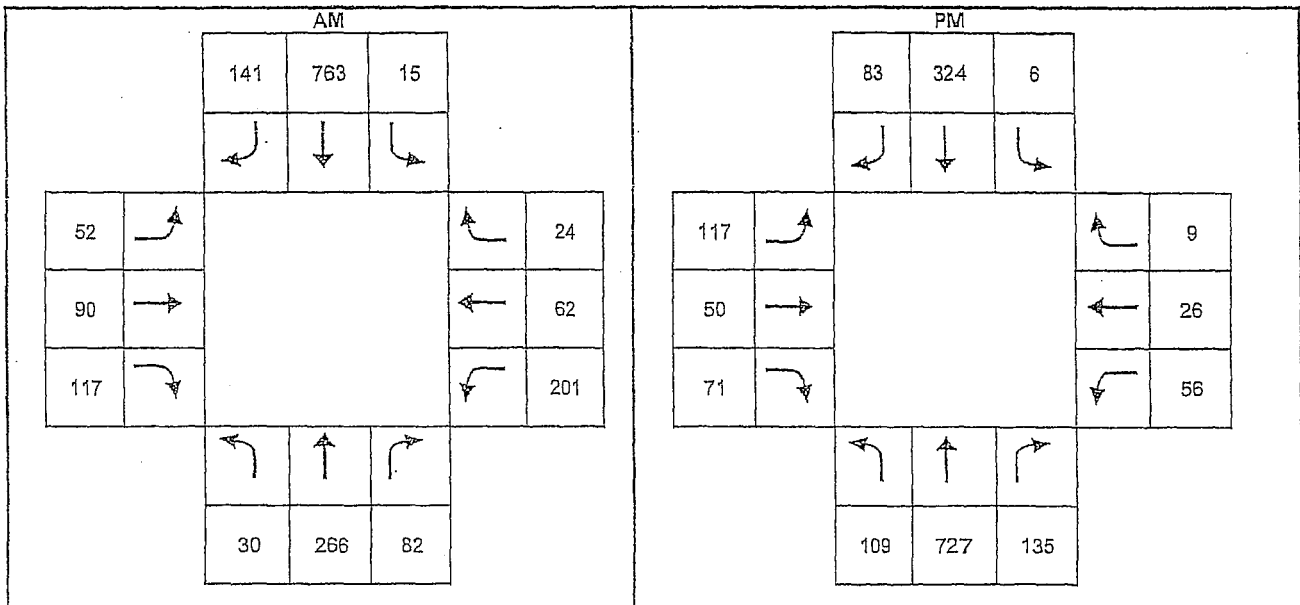
Analyst: Jacob Swim
 Intersection: Carmel Creek Road / Carmel Grove Rd
 Future Condition: Year 2030
 Date: 10/26/2010
 Company: Urban Systems Associates, Inc.
 Project Number: 002407
 Intersection Control: Signalized

E/W Street Name: Carmel Grove Rd.
 N/S Street Name: Carmel Creek Rd.

Factored Turns

Note: Year 2030 volumes were factored using an decrease of 98%
 to be consistent with other volumes decreases on nearby streets.

Turn	Near Term	Near Term	Near Term	Year 2030	Increase	Year 2030	Year 2030
Movement	turn (v) AM	turn (v) PM	ADT	ADT	%	turn (v) AM	turn (v) PM
NLT	31	111	No Volume	No Volume	98%	30	109
NTH	272	742	No Volume	No Volume	98%	266	727
NRT	83	138	No Volume	No Volume	98%	82	135
SLT	15	6	No Volume	No Volume	98%	15	6
STH	779	331	No Volume	No Volume	98%	763	324
SRT	144	84	No Volume	No Volume	98%	141	83
ELT	54	119	No Volume	No Volume	98%	52	117
ETH	92	52	No Volume	No Volume	98%	90	50
ERT	119	72	No Volume	No Volume	98%	117	71
WLT	205	57	No Volume	No Volume	98%	201	56
WTH	63	27	No Volume	No Volume	98%	62	26
WRT	25	9	No Volume	No Volume	98%	24	9



Delay

15.3

LOS

B

Delay

11.4

LOS

B

Year 2030

Intersection 25

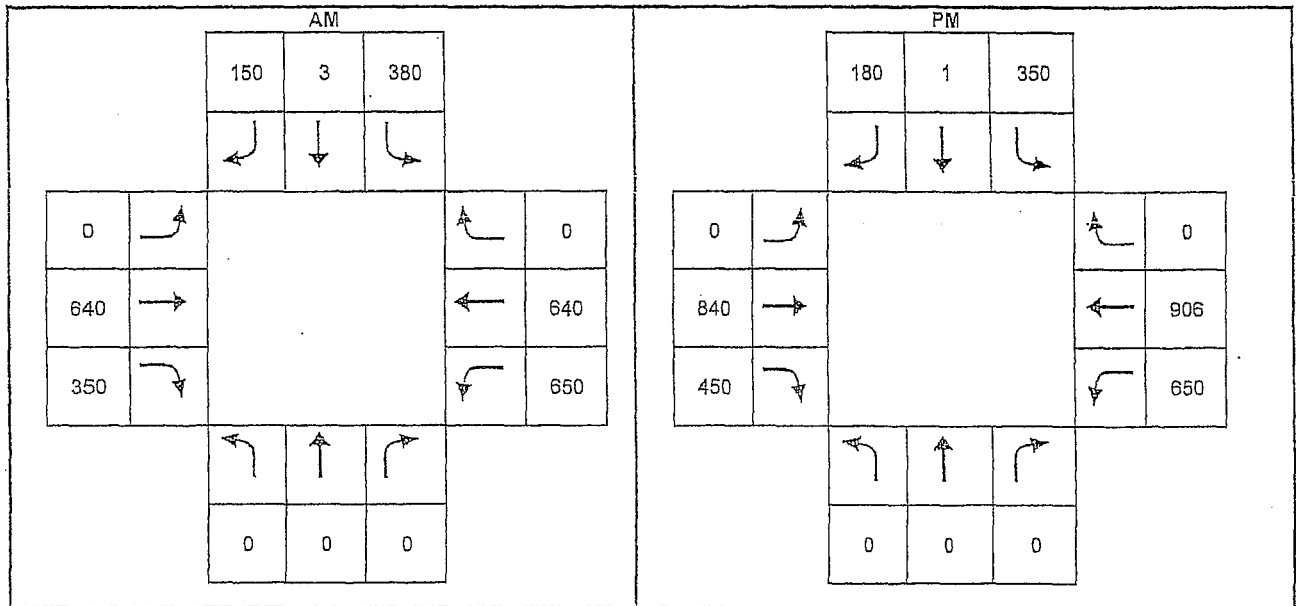
Analyst: Jacob Swim
 Intersection: Carmel Valley Road / I-5 SB Ramps
 Future Condition: Year 2030
 Date: 10/26/2010
 Company: Urban Systems Associates, Inc.
 Project Number: 002407
 Intersection Control: Signalized

E/W Street Name: Carmel Valley Rd.
 N/S Street Name: I-5 SB Ramps

Factored Turns

Note: Year 2030 volumes come from the I-5 / SR-56 NB Connector Study by LLG.

Turn Movement	Near Term turn (v) AM	Near Term turn (v) PM	Near Term ADT	Year 2030 ADT	Increase %	Year 2030 turn (v) AM	Year 2030 turn (v) PM
NLT						0	0
NTH						0	0
NRT						0	0
SLT						380	350
STH						3	1
SRT						150	180
ELT						0	0
ETH						640	840
ERT						350	450
WLT						650	650
WTH						640	906
WRT						0	0



Delay

25.3

LOS

C

Delay

30.9

LOS

C

Year 2030

Intersection 26

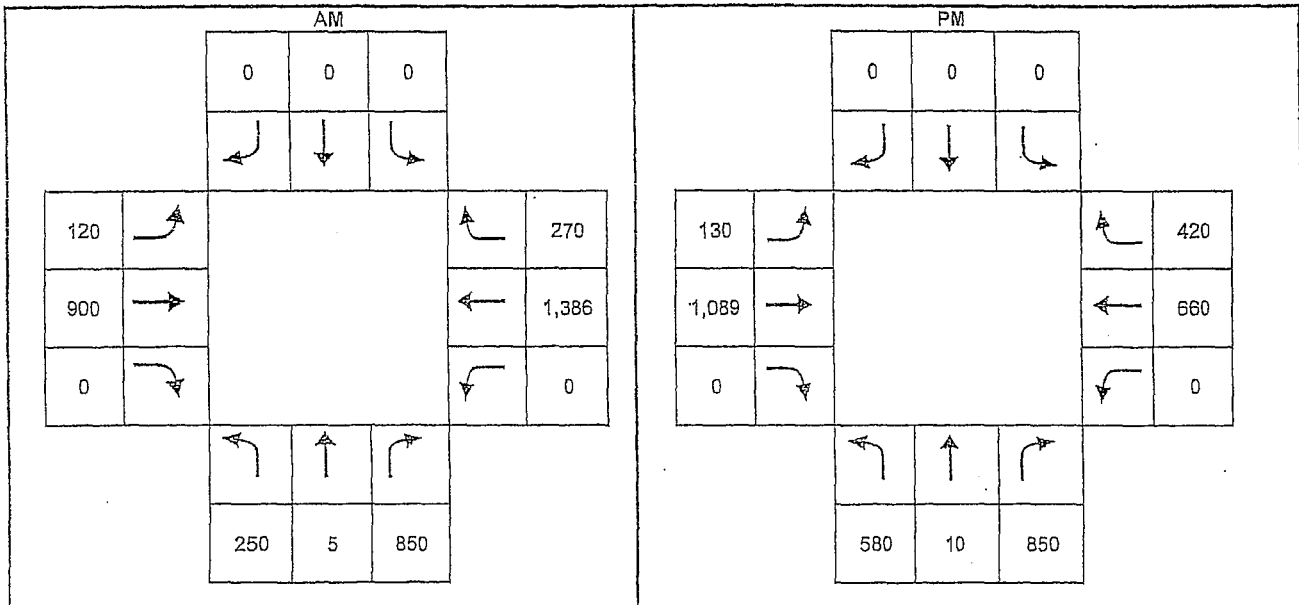
Analyst: Jacob Swim
 Intersection: Carmel Valley Road / I-5 NB Ramps
 Future Condition: Year 2030
 Date: 10/26/2010
 Company: Urban Systems Associates, Inc.
 Project Number: 002407
 Intersection Control: Signalized

E/W Street Name: Carmel Valley Rd.
 N/S Street Name: I-5 NB Ramps

Factored Turns

Note: Year 2030 volumes come from the I-5 / SR-56 NB Connector Study by LLG.

Turn Movement	Near Term turn (v) AM	Near Term turn (v) PM	Near Term ADT	Year 2030 ADT	Increase %	Year 2030 turn (v) AM	Year 2030 turn (v) PM
NLT						250	580
NTH						5	10
NRT						850	850
SLT						0	0
STH						0	0
SRT						0	0
ELT						120	130
ETH						900	1089
ERT						0	0
WLT						0	0
WTH						1386	660
WRT						270	420



Delay

26.8

LOS

C

Delay

19.6

LOS

B

Year 2030

Intersection 27

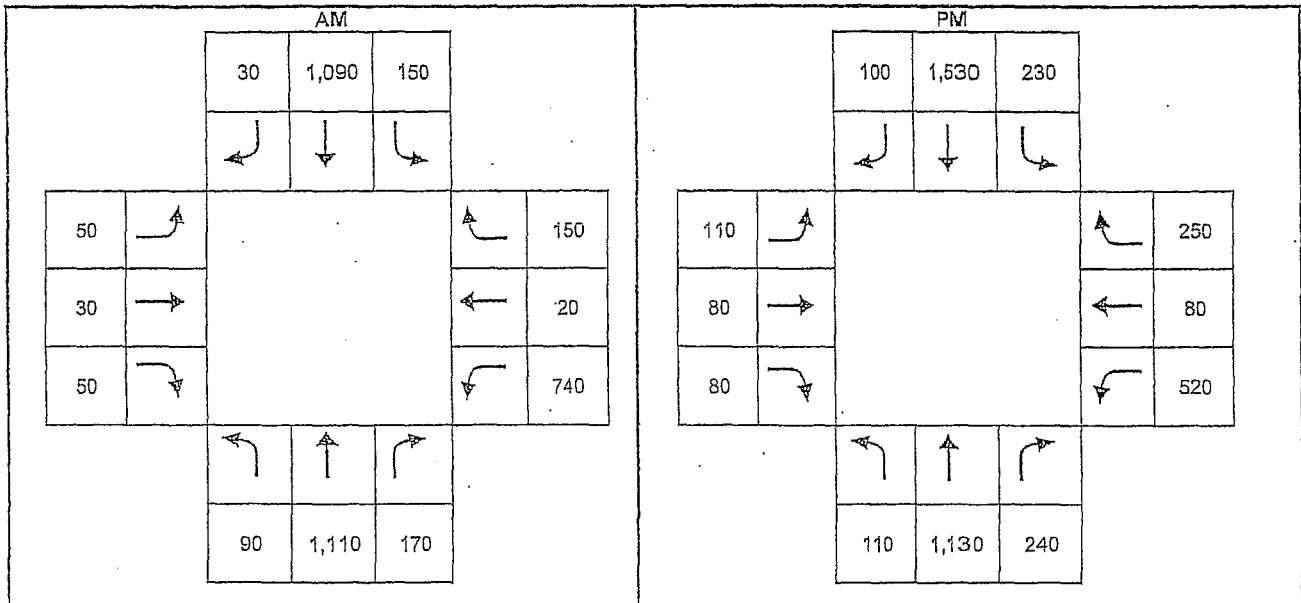
Analyst: Jacob Swim
 Intersection: El Camino Real / Valley Centre Drive
 Future Condition: Year 2030
 Date: 10/26/2010
 Company: Urban Systems Associates, Inc.
 Project Number: 002407
 Intersection Control: Signalized

E/W Street Name: Valley Centre Dr.
 N/S Street Name: El Camino Real

Factored Turns

Note: Year 2030 volumes come from the I-5 / SR-56 NB Connector Study by LLG.

Turn Movement	Near Term turn (v) AM	Near Term turn (v) PM	Near Term ADT	Year 2030 ADT	Increase %	Year 2030 turn (v) AM	Year 2030 turn (v) PM
NLT						90	110
NTH						1110	1130
NRT						170	240
SLT						150	230
STH						1090	1530
SRT						30	100
ELT						50	110
ETH						30	80
ERT						50	80
WLT						740	520
WTH						20	80
WRT						150	250



Delay
22.0

LOS
C

Delay
27.4

LOS
C

Year 2030

Intersection 28

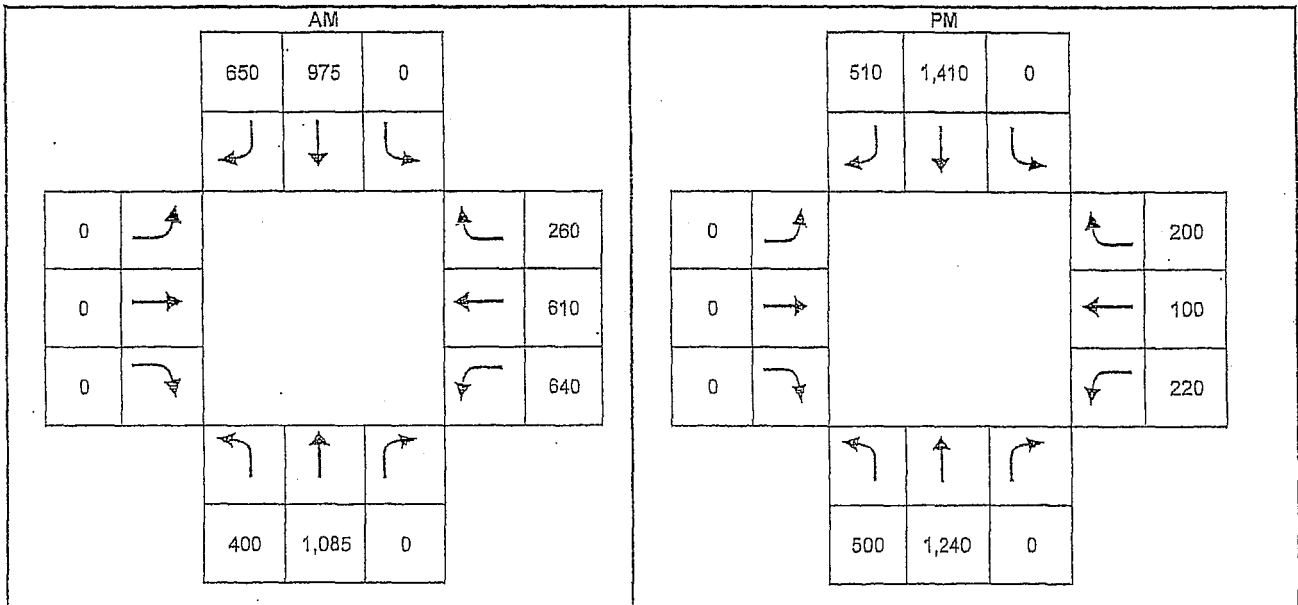
Analyst: Jacob Swim
 Intersection: El Camino Real / Carmel Valley Rd
 Future Condition: Year 2030
 Date: 10/26/2010
 Company: Urban Systems Associates, Inc.
 Project Number: 002407
 Intersection Control: Signalized

E/W Street Name: Carmel Valley Rd.
 N/S Street Name: El Camino Real

Factored Turns

Note: Year 2030 volumes come from the I-5 / SR-56 NB Connector Study by LLG.

Turn Movement	Near Term turn (v) AM	Near Term turn (v) PM	Near Term ADT	Year 2030 ADT	Increase %	Year 2030 turn (v) AM	Year 2030 turn (v) PM
NLT						400	500
NTH						1085	1240
NRT						0	0
SLT						0	0
STH						975	1410
SRT						650	510
ELT						0	0
ETH						0	0
ERT						0	0
WLT						640	220
WTH						610	100
WRT						260	200



Delay	LOS
22.0	C

Delay	LOS
17.6	B

Year 2030

Intersection 29

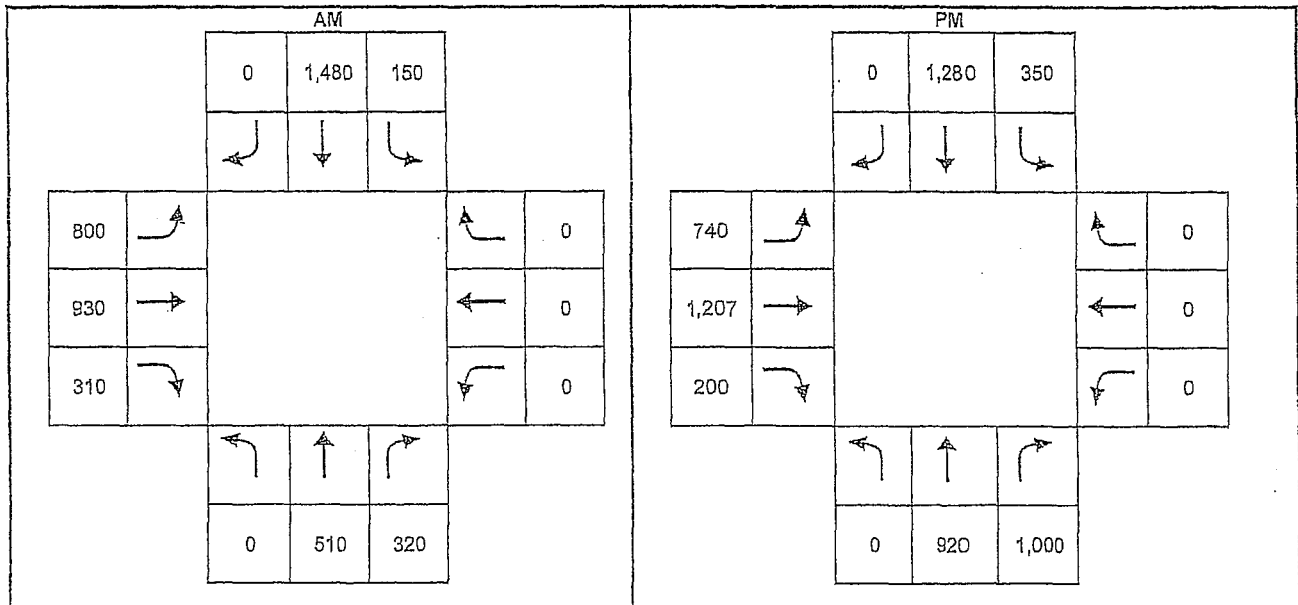
Analyst: Jacob Swim
 Intersection: El Camino Real / SR-56 EB On Ramp
 Future Condition: Year 2030
 Date: 10/26/2010
 Company: Urban Systems Associates, Inc.
 Project Number: 002407
 Intersection Control: Signalized

E/W Street Name: SR-56 EB On Ramp
 N/S Street Name: El Camino Real

Factored Turns

Note: Year 2030 volumes come from the I-5 / SR-56 NB Connector Study by LLG.

Turn Movement	Near Term turn (v) AM	Near Term turn (v) PM	Near Term ADT	Year 2030 ADT	Increase %	Year 2030 turn (v) AM	Year 2030 turn (v) PM
NLT						0	0
NTH						510	920
NRT						320	1000
SLT						150	350
STH						1480	1280
SRT						0	0
ELT						800	740
ETH						930	1207
ERT						310	200
WLT						0	0
WTH						0	0
WRT						0	0



Delay	LOS
23.1	C

Delay	LOS
89.0	F

Year 2030

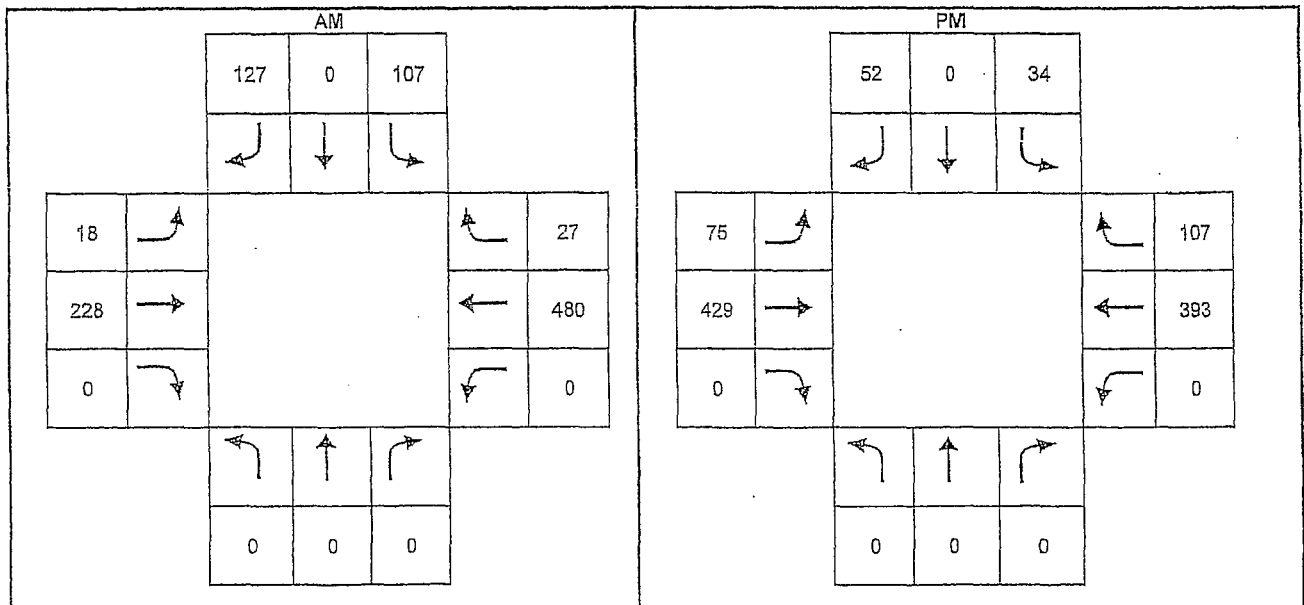
Intersection 30

Analyst: Jacob Swim
 Intersection: Carmel View Road / Valley Centre Drive
 Future Condition: Year 2030
 Date: 10/26/2010
 Company: Urban Systems Associates, Inc.
 Project Number: 002407
 Intersection Control: Signalized

E/W Street Name: Valley Centre Dr.
 N/S Street Name: Carmel View Rd.

Factored Turns

Turn Movement	Near Term turn (v) AM	Near Term turn (v) PM	Near Term ADT	Year 2030 ADT	Increase %	Year 2030 turn (v) AM	Year 2030 turn (v) PM
NLT	0	0	No Volume	No Volume	110%	0	0
NTH	0	0	No Volume	No Volume	110%	0	0
NRT	0	0	No Volume	No Volume	110%	0	0
SLT	97	31	No Volume	No Volume	110%	107	34
STH	0	0	No Volume	No Volume	110%	0	0
SRT	115	47	No Volume	No Volume	110%	127	52
ELT	16	68	No Volume	No Volume	110%	18	75
ETH	207	390	No Volume	No Volume	110%	228	429
ERT	0	0	No Volume	No Volume	110%	0	0
WLT	0	0	No Volume	No Volume	110%	0	0
WTH	437	357	No Volume	No Volume	110%	480	393
WRT	25	97	No Volume	No Volume	110%	27	107



Delay
7.7

LOS
A

Delay
6.2

LOS
A

Year 2030

Intersection 31

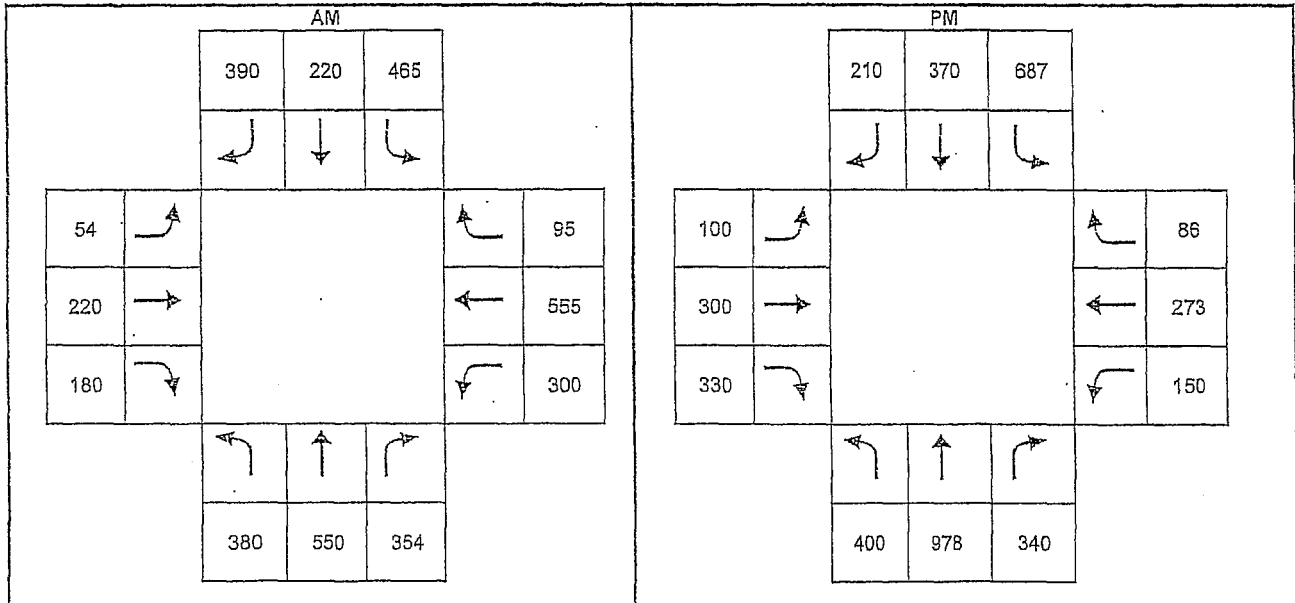
Analyst: Jacob Swim
 Intersection: Carmel Creek Road / SR-56 WB Ramp
 Future Condition: Year 2030
 Date: 10/26/2010
 Company: Urban Systems Associates, Inc.
 Project Number: 002407
 Intersection Control: Signalized

E/W Street Name: SR-56 WB Ramp
 N/S Street Name: Carmel Creek Rd.

Factored Turns

Note: Year 2030 volumes come from the I-5 / SR-56 NB Connector Study by LLG.

Turn Movement	Near Term turn (v) AM	Near Term turn (v) PM	Near Term ADT	Year 2030 ADT	Increase %	Year 2030 turn (v) AM	Year 2030 turn (v) PM
NLT						380	400
NTH						550	978
NRT						354	340
SLT						465	687
STH						220	370
SRT						390	210
ELT						54	100
ETH						220	300
ERT						180	330
WLT						300	150
WTH						555	273
WRT						95	86



Delay
47.0

LOS
D

Delay
42.6

LOS
D

Year 2030

Intersection 32

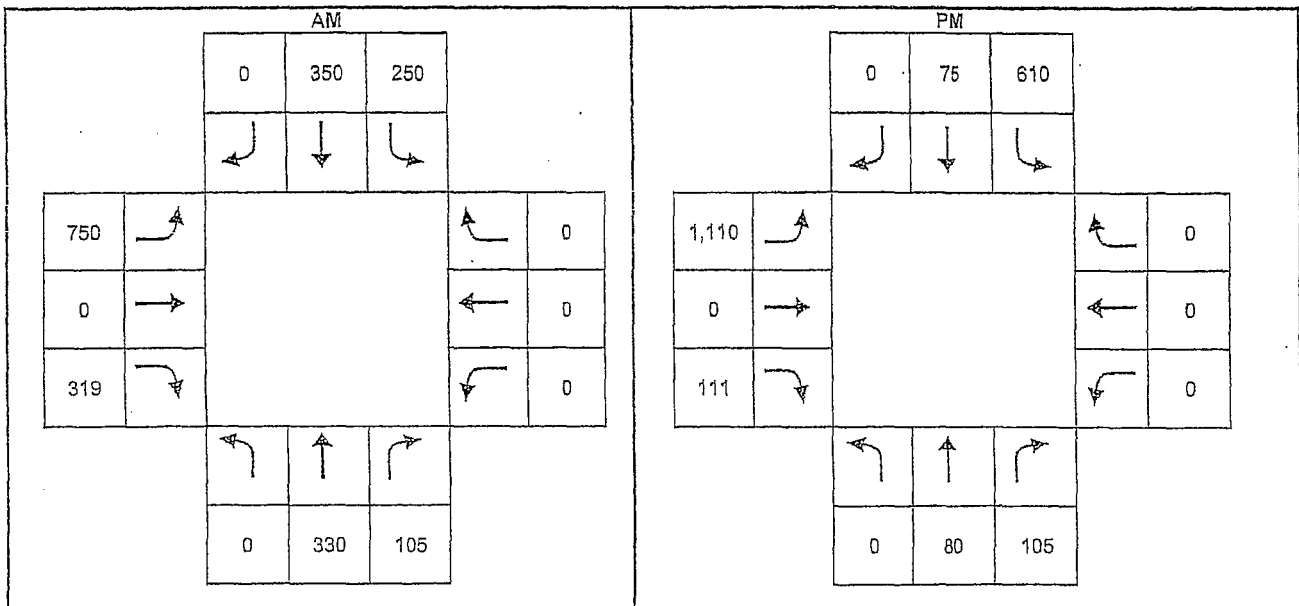
Analyst: Jacob Swim
 Intersection: Carmel Creek Road / SR-56 EB Ramps
 Future Condition: Year 2030
 Date: 10/26/2010
 Company: Urban Systems Associates, Inc.
 Project Number: 002407
 Intersection Control: Signalized

E/W Street Name: SR-56 EB Ramp
 N/S Street Name: Carmel Creek Rd.

Factored Turns

Note: Year 2030 volumes come from the I-5 / SR-56 NB Connector Study by LLG.

Turn Movement	Near Term turn (v) AM	Near Term turn (v) PM	Near Term ADT	Year 2030 ADT	Increase %	Year 2030 turn (v) AM	Year 2030 turn (v) PM
NLT						0	0
NTH						330	80
NRT						105	105
SLT						250	610
STH						350	75
SRT						0	0
ELT						750	1110
ETH						0	0
ERT						319	111
WLT						0	0
WTH						0	0
WRT						0	0



Delay

15.0

LOS

B

Delay

22.9

LOS

C

Year 2030

Intersection 33

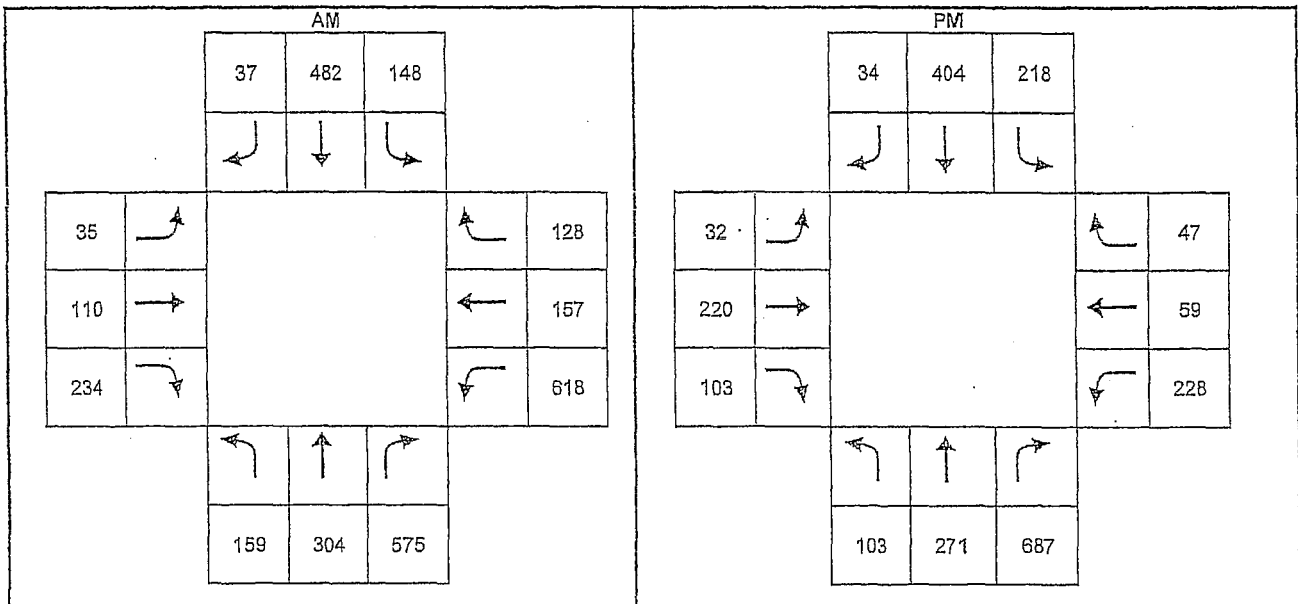
Analyst: Jacob Swim
 Intersection: Carmel Country Road / Carmel Canyon Rd
 Future Condition: Year 2030
 Date: 10/26/2010
 Company: Urban Systems Associates, Inc.
 Project Number: 002407
 Intersection Control: Signalized

E/W Street Name: Carmel Canyon Rd.
 N/S Street Name: Carmel Country Rd.

Factored Turns

Note: Year 2030 volumes come from the I-5 / SR-56 NB Connector Study by LLG.

Turn Movement	Near Term turn (v) AM	Near Term turn (v) PM	Near Term ADT	Year 2030 ADT	Increase %	Year 2030 turn (v) AM	Year 2030 turn (v) PM
NLT	145	94	4,100	4,500	110%	159	103
NTH	435	387	13,590	9,500	70%	304	271
NRT	345	412	4,500	7,500	167%	575	687
SLT	89	131	4,500	7,500	167%	148	218
STH	501	419	26,990	26,000	96%	482	404
SRT	34	31	4,100	4,500	110%	37	34
ELT	49	45	13,590	9,500	70%	35	32
ETH	66	132	4,500	7,500	167%	110	220
ERT	243	107	26,990	26,000	96%	234	103
WLT	642	237	26,990	26,000	96%	618	228
WTH	143	54	4,100	4,500	110%	157	59
WRT	183	67	13,590	9,500	70%	128	47



Delay
34.5

LOS
C

Delay
33.4

LOS
C

Year 2030

Intersection 34

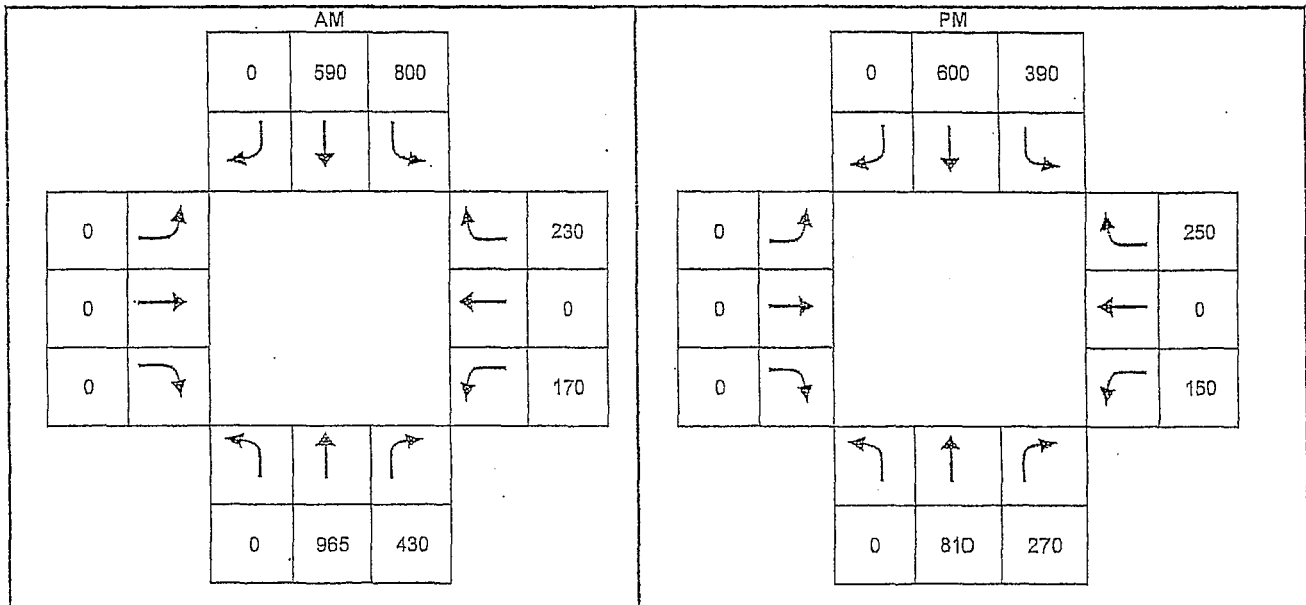
Analyst: Jacob Swim
 Intersection: Carmel Country Road / SR-56 WB Ramps
 Future Condition: Year 2030
 Date: 10/26/2010
 Company: Urban Systems Associates, Inc.
 Project Number: 002407
 Intersection Control: Signalized

E/W Street Name: SR-56 WB Ramps
 N/S Street Name: Carmel Country Rd.

Factored Turns

Note: Year 2030 volumes come from the I-5 / SR-56 NB Connector Study by LLG.

Turn Movement	Near Term turn (v) AM	Near Term turn (v) PM	Near Term ADT	Year 2030 ADT	Increase %	Year 2030 turn (v) AM	Year 2030 turn (v) PM
NLT						0	0
NTH						965	810
NRT						430	270
SLT						800	390
STH						590	600
SRT						0	0
ELT						0	0
ETH						0	0
ERT						0	0
WLT						170	150
WTH						0	0
WRT						230	250



Delay

17.1

LOS

B

Delay

9.9

LOS

A

Year 2030

Intersection 35

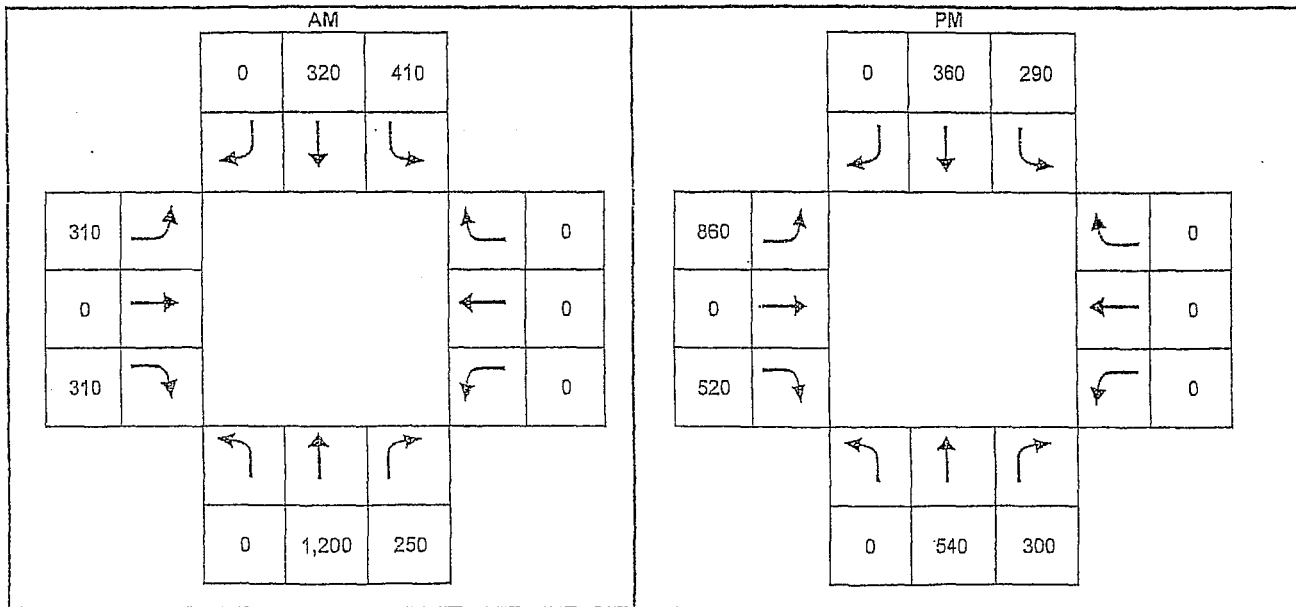
Analyst: Jacob Swim
 Intersection: Carmel Country Road / SR-56 EB Ramps
 Future Condition: Year 2030
 Date: 10/26/2010
 Company: Urban Systems Associates, Inc.
 Project Number: 002407
 Intersection Control: Signalized

E/W Street Name: SR-56 EB Ramps
 N/S Street Name: Carmel Country Rd.

Factored Turns

Note: Year 2030 volumes come from the I-5 / SR-56 NB Connector Study by LLG.

Turn	Near Term	Near Term	Near Term	Year 2030	Increase	Year 2030	Year 2030
Movement	turn (v) AM	turn (v) PM	ADT	ADT	%	turn (v) AM	turn (v) PM
NLT						0	0
NTH						1200	540
NRT						250	300
SLT						410	290
STH						320	360
SRT						0	0
ELT						310	860
ETH						0	0
ERT						310	520
WLT						0	0
WTH						0	0
WRT						0	0



Delay	LOS
20.1	C

Delay	LOS
18.2	B

Year 2030

Intersection 36

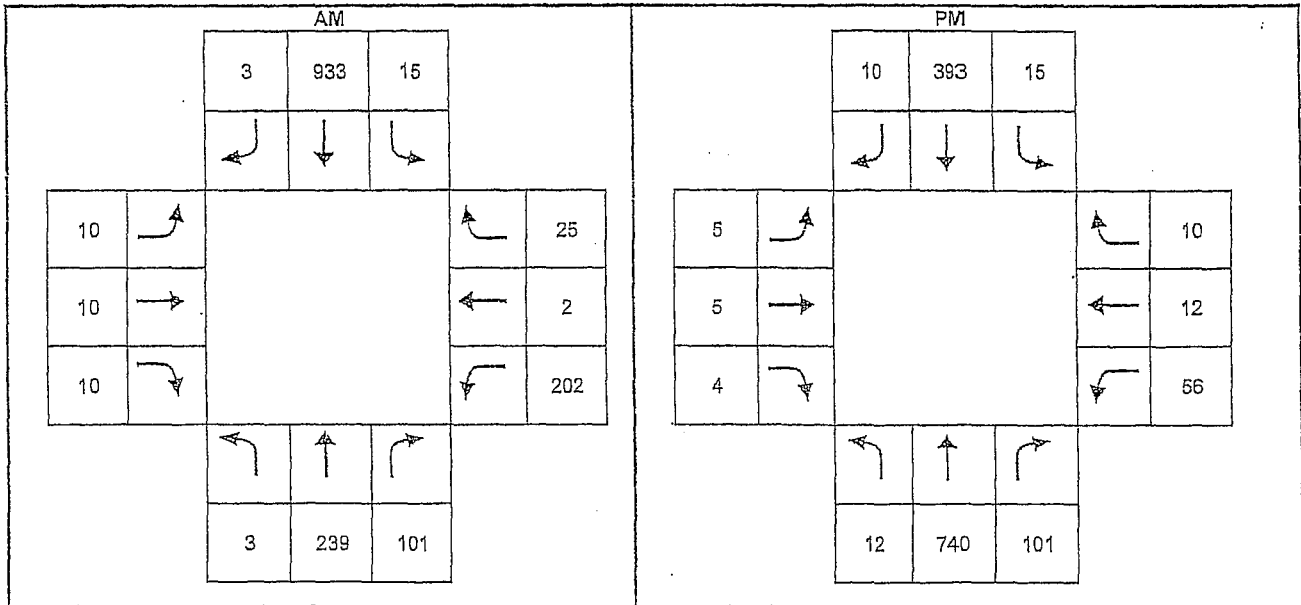
Analyst: Jacob Swim
 Intersection: Carmel Creek Road / Del Mar Trail
 Future Condition: Year 2030
 Date: 10/26/2010
 Company: Urban Systems Associates, Inc.
 Project Number: 002407
 Intersection Control: Unsignalized

E/W Street Name: Del Mar Trail
 N/S Street Name: Carmel Creek Rd.

Factored Turns

Note: Year 2030 volumes come from the I-5 / SR-56 NB Connector Study by LLG.

Turn	Near Term	Near Term	Near Term	Year 2030	Increase	Year 2030	Year 2030
Movement	turn (v) AM	turn (v) PM	ADT	ADT	%	turn (v) AM	turn (v) PM
NLT	3	12	No Volume	No Volume	98%	3	12
NTH	244	755	No Volume	No Volume	98%	239	740
NRT	103	103	No Volume	No Volume	98%	101	101
SLT	15	15	No Volume	No Volume	98%	15	15
STH	952	401	No Volume	No Volume	98%	933	393
SRT	3	10	No Volume	No Volume	98%	3	10
ELT	10	5	No Volume	No Volume	98%	10	5
ETH	10	5	No Volume	No Volume	98%	10	5
ERT	10	4	No Volume	No Volume	98%	10	4
WLT	206	57	No Volume	No Volume	98%	202	56
WTH	2	12	No Volume	No Volume	98%	2	12
WRT	26	10	No Volume	No Volume	98%	25	10



Delay
43.3

LOS
E

Delay
20.6

LOS
C