

Steve



City of
Chino Hills

June 15, 2012

Mr. Ryan Graham, Transportation Planning Specialist
San Bernardino Associated Governments
1170 W. Third Street, 2nd Floor
San Bernardino, CA 92401-1715

Subject: 2012 CMP Monitoring

Mr. Ryan Graham,

Enclosed are the intersection evaluations and respective traffic count sheets for:

- 1. Chino Hills Parkway at Carbon Canyon Road
- 2. Grand Avenue at Peyton Drive

Should you have any questions or require additional information, please contact me at (909) 364-2771.

Sincerely,

Joe Dyer
Assistant City Engineer

Enclosures

RECEIVED

JUN 18 2012

**SAN BERNARDINO
ASSOCIATED GOVTS**

WEBSTER

Webster Based Signal Timing Evaluation Routine

For Capacity and Level of Service Analysis Using HCM 2000 Control Delay

Grand Avenue at Peyton Drive

Chino Hills

PM Peak Hour

Input

Movement Times	Eastbound			Westbound			Northbound			Southbound		
	L	*T*	R	*L*	T	R	*L*	T	R	L	*T*	R
Movement 1: 11 secs				X	X	X						
Movement 2: 18 secs		X	X		X	X						
Movement 3: 11 secs	X	X	X									
Movement 4: 10 secs										X	X	X
Movement 5: 17 secs								X	X		X	X
Movement 6: 10 secs							X	X	X			
# of Lanes (#, S, P)	2	2	1	2	2	1	2	3	1	2	3	S
Unadjusted Volume	301	1047	201	292	625	199	220	674	216	233	544	173
Peak Hour Factor (PHF)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Growth Factor (%)												
Project Trip Volume (vph)												
Sat. Flow Override (vph)												Shrd
Min. Time or Ped. Time	10	29	29	10	27	27	10	27	27	10	27	27
Permissive Veh/Cycle												
Progression Adj. Factor (PAF)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-

Parameter Values

	Other	Default
Duration of Peak Period (min)	60	15
Lost Time (sec)		2
Min. Time (Left Turns, sec)		10
Min./Ped Time (Thru Lanes, sec)		20
Sat Flow (1 Left lane, vphg)		1800
Sat Flow (2 Left lanes, vphg)		3500
Sat Flow (1 Thru lane, vphg)		1900
Sat Flow (1 Right lane, vphg)		1800
Vehicle Length (feet)		20

Output

	***			***			***			***		
Pk. Hr. Vol. (vph)	301	1047	201	292	625	199	220	674	216	233	544	173
Saturation Flow (vph)	3500	3800	1800	3500	3800	1800	3500	5700	1800	3500	5700	Shrd
X or V/C	0.74	0.79	0.32	0.71	0.47	0.32	0.61	0.36	0.37	0.64	0.39	-
Effective green (sec)	9	27	27	9	27	27	8	25	25	8	25	-
Split Time (sec)	11	29	29	11	29	29	10	27	27	10	27	-
Min. Time or Ped. Time (sec)	10	29	29	10	27	27	10	27	27	10	27	-
Delay - 60 min pk (sec/veh)	45	27	20	44	21	20	40	20	22	42	21	-
Level of Service (LOS)	D	C	B	D	C+	B	D	C+	C+	D	C+	-
Average 'Q' (veh/ln)	3	8	3	3	4	3	2	3	3	2	3	-
Design 'Q' - ft/ln	100	240	100	100	120	100	60	100	100	60	100	-
Do Vehicles Clear?	YES	-										

Summary

Whole Intersection	
Weighted Avg Delay (sec) =	27
Level of Service - LOS =	C
Critical Movements	
Weighted Avg Delay (sec) =	29
Level of Service - LOS =	C
Intersection Capacity Utilization - ICU =	0.61
Required Cycle Length is 77 sec	
Min./Ped. Times Satisfied	

WEBSTER

Webster Based Signal Timing Evaluation Routine

For Capacity and Level of Service Analysis Using HCM 2000 Control Delay

Grand Avenue at Peyton Drive

Chino Hills

AM Peak Hour

Input

Movement Times	Eastbound			Westbound			Northbound			Southbound		
	L	T	*R*	*L*	T	R	*L*	T	R	L	*T*	R
Movement 1: 10 secs				X	X	X						
Movement 2: 22 secs		X	X		X	X						
Movement 3: 10 secs	X	X	X									
Movement 4: 10 secs										X	X	X
Movement 5: 17 secs								X	X		X	X
Movement 6: 17 secs							X	X	X			
# of Lanes (#, S, P)	2	2	1	2	2	1	2	3	1	2	3	S
Unadjusted Volume	138	512	332	122	592	76	377	472	219	105	319	157
Peak Hour Factor (PHF)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Growth Factor (%)												
Project Trip Volume (vph)												
Sat. Flow Override (vph)												Shrd
Min. Time or Ped. Time	10	29	29	10	27	27	10	27	27	10	27	27
Permissive Veh/Cycle												
Progression Adj. Factor (PAF)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-

Parameter Values

	Other	Default
Duration of Peak Period (min)	60	15
Lost Time (sec)		2
Min. Time (Left Turns, sec)		10
Min/Ped Time (Thru Lanes, sec)		20
Sat Flow (1 Left lane, vphg)		1800
Sat Flow (2 Left lanes, vphg)		3500
Sat Flow (1 Thru lane, vphg)		1900
Sat Flow (1 Right lane, vphg)		1800
Vehicle Length (feet)		20

Output

	***			***			***			***		
Pk. Hr. Vol. (vph)	138	512	332	122	592	76	377	472	219	105	319	157
Saturation Flow (vph)	3500	3800	1800	3500	3800	1800	3500	5700	1800	3500	5700	Shrd
X or V/C	0.42	0.39	0.53	0.37	0.45	0.12	0.62	0.22	0.33	0.32	0.29	-
Effective green (sec)	8	30	30	8	30	30	15	32	32	8	25	-
Split Time (sec)	10	32	32	10	32	32	17	34	34	10	27	-
Min. Time or Ped. Time (sec)	10	29	29	10	27	27	10	27	27	10	27	-
Delay - 60 min pk (sec/veh)	41	22	26	40	23	19	38	19	21	39	24	-
Level of Service (LOS)	D	C+	C	D+	C+	B	D+	B	C+	D+	C+	-
Average 'Q' (veh/ln)	2	4	5	1	5	1	4	2	3	1	3	-
Design 'Q'- ft/ln	60	120	160	40	160	40	120	60	100	40	100	-
Do Vehicles Clear?	YES	-										

Summary

Whole Intersection	
Weighted Avg Delay (sec) =	26
Level of Service - LOS =	C
Critical Movements	
Weighted Avg Delay (sec) =	30
Level of Service - LOS =	C
Intersection Capacity Utilization - ICU =	0.45
Required Cycle Length is 86 sec	
Min./Ped. Times Satisfied	

PEAK HOUR ITM SUMMARY

#001 Peyton Drive & Grand Avenue

LOCATION#:	001	QTD PROJ#:	700160	AM PEAK:	715 AM
NORTH / SOUTH:	Peyton Drive	DATE:	Tuesday, June 06, 2012	MD PEAK:	
EAST / WEST:	Grand Avenue	VICINITY:	Chino Hills, CA	PM PEAK:	445 PM



LN	0.5	2.5	2
AM	157	319	105
MD	0	0	0
PM	173	544	233
TOTAL	330	863	338

Peyton Drive

TOTAL	1860
PM	1174
MD	0
AM	686

TOTAL	PM	MD	AM
2144	1018	0	1126

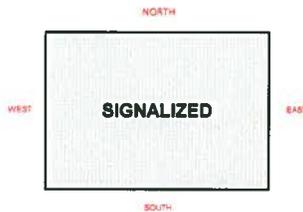
Grand Avenue

TOTAL	PM	MD	AM	LN
275	199	0	76	1
1217	825	0	592	2
414	292	0	122	2

Grand Avenue

AM	MD	PM	TOTAL
838	0	1496	2332

LN	AM	MD	PM	TOTAL
2	138	0	301	439
2	512	0	1047	1559
1	332	0	201	533



TOTAL	AM	773
MD	0	
PM	1037	
TOTAL	1810	

Peyton Drive

TOTAL	597	1146	435
PM	220	674	216
MD	0	0	0
AM	377	472	219
LN	2	3	1

AM COUNT	6:00 AM	TO	10:00 AM	MD COUNT	11:00 AM	TO	1:00 PM	PM COUNT	3:00 PM	TO	6:00 PM
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QUALITY TRAFFIC DATA, LLC

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Phone: 310-341-0019 Fax: 310-807-9247 Info@QualityTrafficData.com

VEHICLE TURNING MOVEMENT COUNT

#001 Peyton Drive & Grand Avenue - AM PEAK

LOCATION#:	001	QTD PROJ#:	700160
NORTH / SOUTH:	Peyton Drive	DATE:	Tuesday, June 05, 2012
EAST / WEST:	Grand Avenue	VICINITY:	Chino Hills, CA

DIRECTION:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTALS
LANES:	2	3	1	2	2.5	0.5	2	2	1	2	2	1	
7:00 AM	89	98	39	30	147	44	21	85	51	25	139	7	775
7:15 AM	117	123	60	17	122	34	25	102	76	27	134	18	855
7:30 AM	135	159	82	26	47	31	37	128	81	23	137	16	902
7:45 AM	82	102	49	27	64	45	37	145	96	29	140	18	834
8:00 AM	43	88	28	35	86	47	39	137	79	43	181	24	830
8:15 AM	25	66	24	32	65	41	28	118	56	29	120	15	619
8:30 AM	22	52	26	27	62	32	34	92	42	35	94	18	536
8:45 AM	12	58	19	29	63	30	24	84	39	35	85	18	496
VOLUME STATS:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
TOTAL:	525	746	327	223	656	304	245	891	520	246	1030	134	5847
P.H.V: 1	377	472	219	105	319	157	138	512	332	122	592	76	3421
P.H.F: 2	0.710		0.840		0.883		0.796						0.948

(1) Peak Hour Volume (Peak Hour Begins At 715 AM)

(2) Peak Hour Factor (directional aggregate)



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VEHICLE TURNING MOVEMENT COUNT

#001 Peyton Drive & Grand Avenue - PM PEAK

LOCATION#:	001	QTD PROJ#:	700160
NORTH / SOUTH:	Peyton Drive	DATE:	Tuesday, June 05, 2012
EAST / WEST:	Grand Avenue	VICINITY:	Chino Hills, CA

DIRECTION:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTALS
LANES:	2	3	1	2	2.5	0.5	2	2	1	2	2	1	
4:00 PM	43	137	59	54	139	37	79	238	44	74	117	51	1072
4:15 PM	54	152	49	56	122	41	72	235	47	70	123	59	1080
4:30 PM	46	159	57	55	143	47	70	243	49	75	142	56	1142
4:45 PM	48	190	51	66	138	46	76	256	46	71	154	48	1190
5:00 PM	62	172	54	53	133	44	81	263	48	75	151	45	1181
5:15 PM	58	162	58	58	136	42	73	260	55	62	149	53	1166
5:30 PM	52	150	53	56	137	41	71	268	52	84	171	53	1188
5:45 PM	41	119	43	60	134	37	75	265	43	68	153	43	1081
VOLUME STATS:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
TOTAL:	404	1241	424	458	1082	335	597	2028	384	579	1160	408	9100
P.H.V: ₁	220	674	216	233	544	173	301	1047	201	292	625	199	4725
P.H.F: ₂		0.960			0.950			0.988			0.906		0.993

(1) Peak Hour Volume (Peak Hour Begins At 445 PM)

(2) Peak Hour Factor (directional aggregate)



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WEBSTER

Webster Based Signal Timing Evaluation Routine

For Capacity and Level of Service Analysis Using HCM 2000 Control Delay

Carbon Canyon at Chino Hills Parkway

Chino Hills

AM Peak Hour

Input

Movement Times	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	*L*	*T*	R	*L*	T	*R*	L	T	R
Movement 1: 34 secs	X			X								
Movement 2: 20 secs		X	X		X	X						
Movement 3: 12 secs							X			X		
Movement 4: 22 secs								X	X		X	X
Movement 5: 0 secs												
Movement 6: 0 secs												
# of Lanes (#, S, P)	1	2	1	2	2	S	1	1	2	S	1	S
Unadjusted Volume	8	319	228	965	476	2	151	0	236	0	0	2
Peak Hour Factor (PHF)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Growth Factor (%)												
Project Trip Volume (vph)												
Sat. Flow Override (vph)						Shrd						Shrd
Min. Time or Ped. Time	5	20	20	5	12	12	5	5	5	5	22	22
Permissive Veh/Cycle												
Progression Adj. Factor (PAF)	1.00	1.00	1.00	1.00	1.00	-	1.00	1.00	1.00	-	1.00	-

Parameter Values

	Other	Default
Duration of Peak Period (min)	60	15
Lost Time (sec)		2
Min. Time (Left Turns, sec)	5	10
Min/Ped Time (Thru Lanes, sec)		20
Sat Flow (1 Left lane, vphg)		1800
Sat Flow (2 Left lanes, vphg)		3500
Sat Flow (1 Thru lane, vphg)		1900
Sat Flow (1 Right lane, vphg)		1800
Vehicle Length (feet)		20

Output

	***			***			***			***		
Pk. Hr. Vol. (vph)	10	319	228	965	476	10	151	10	236	10	10	10
Saturation Flow (vph)	1800	3800	1800	3500	3800	Shrd	1800	1900	3400	Shrd	1900	Shrd
X or V/C	0.02	0.41	0.62	0.76	0.63	-	0.74	0.02	0.31	-	0.07	-
Effective green (sec)	32	18	18	32	18	-	10	20	20	-	20	-
Split Time (sec)	34	20	20	34	20	-	12	22	22	-	22	-
Min. Time or Ped. Time (sec)	5	20	20	5	12	-	5	5	5	-	22	-
Delay - 60 min pk (sec/veh)	18	32	40	29	36	-	61	27	29	-	27	-
Level of Service (LOS)	B	C-	D+	C	D+	-	E	C	C	-	C	-
Average 'Q' (veh/ln)	1	3	5	8	5	-	4	1	2	-	1	-
Design 'Q'- ft/ln	40	100	160	240	160	-	120	40	60	-	40	-
Do Vehicles Clear?	YES	YES	YES	YES	YES	-	YES	YES	YES	-	YES	-

Summary

Whole Intersection	
Weighted Avg Delay (sec) =	34
Level of Service - LOS =	C-
Critical Movements	
Weighted Avg Delay (sec) =	33
Level of Service - LOS =	C-
Intersection Capacity Utilization - ICU =	0.61
Required Cycle Length is 88 sec	
Min./Ped. Times Satisfied	

WEBSTER

Webster Based Signal Timing Evaluation Routine

For Capacity and Level of Service Analysis Using HCM 2000 Control Delay

Carbon Canyon at Chino Hills Parkway

Chino Hills

PM Peak Hour

Input

Movement Times	Eastbound			Westbound			Northbound			Southbound		
	L	*T*	R	*L*	T	R	*L*	T	*R*	L	T	R
Movement 1: 11 secs	X			X								
Movement 2: 20 secs		X	X		X	X						
Movement 3: 13 secs							X			X		
Movement 4: 31 secs								X	X		X	X
Movement 5: 0 secs												
Movement 6: 0 secs												
# of Lanes (#, S, P)	1	2	1	2	2	S	1	1	2	S	1	S
Unadjusted Volume	7	620	113	331	311	6	206	0	1095	3	0	4
Peak Hour Factor (PHF)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Growth Factor (%)												
Project Trip Volume (vph)												
Sat. Flow Override (vph)						Shrd						Shrd
Min. Time or Ped. Time	5	20	20	5	12	12	5	5	5	5	22	22
Permissive Veh/Cycle												
Progression Adj. Factor (PAF)	1.00	1.00	1.00	1.00	1.00	-	1.00	1.00	1.00	-	1.00	-

Parameter Values

	Other	Default
Duration of Peak Period (min)	60	15
Lost Time (sec)		2
Min. Time (Left Turns, sec)		10
Min./Ped Time (Thru Lanes, sec)		20
Sat Flow (1 Left lane, vphg)		1800
Sat Flow (2 Left lanes, vphg)		3500
Sat Flow (1 Thru lane, vphg)		1900
Sat Flow (1 Right lane, vphg)		1800
Vehicle Length (feet)		20

Output

	***			***			***			***		
Pk. Hr. Vol. (vph)	10	620	113	331	311	10	206	10	1095	10	10	10
Saturation Flow (vph)	1800	3800	1800	3500	3800	Shrd	1800	1900	3400	Shrd	1900	Shrd
X or V/C	0.05	0.68	0.26	0.79	0.35	-	0.78	0.01	0.83	-	0.04	-
Effective green (sec)	9	18	18	9	18	-	11	29	29	-	29	-
Split Time (sec)	11	20	20	11	20	-	13	31	31	-	31	-
Min. Time or Ped. Time (sec)	5	20	20	5	12	-	5	5	5	-	22	-
Delay - 60 min pk (sec/veh)	30	30	25	47	25	-	54	14	27	-	14	-
Level of Service (LOS)	C	C-	C+	D	C+	-	D-	B	C	-	B	-
Average 'Q' (veh/ln)	1	5	2	4	3	-	5	1	8	-	1	-
Design 'Q'- ft/ln	40	160	60	120	100	-	160	40	240	-	40	-
Do Vehicles Clear?	YES	YES	YES	YES	YES	-	NO	YES	YES	-	YES	-

Summary

Whole Intersection	
Weighted Avg Delay (sec) =	32
Level of Service - LOS =	C-
Critical Movements	
Weighted Avg Delay (sec) =	34
Level of Service - LOS =	C-
Intersection Capacity Utilization - ICU =	0.78
Required Cycle Length is 75 sec	
Min./Ped. Times Satisfied	

PEAK HOUR ITM SUMMARY

#002 Carbon Canyon Road & Chino Hills Parkway

LOCATION#:	002	QTD PROJ#:	700160	AM PEAK:	700 AM
NORTH / SOUTH:	Carbon Canyon Road	DATE:	Tuesday, June 05, 2012	MD PEAK:	
EAST / WEST:	Chino Hills Parkway	VICINITY:	Chino Hills, CA	PM PEAK:	500 PM



LN	0	1	1
AM	2	0	1
MD	0	0	0
PM	4	0	3
TOTAL	6	0	4

Carbon Canyon Road

TOTAL	23
PM	13
MD	0
AM	10

TOTAL	PM	MD	AM
1150	821	0	829

Chino Hills Parkway

TOTAL	PM	MD	AM	LN
8	6	0	2	0
787	311	0	476	2
1296	331	0	965	2

Chino Hills Parkway

AM	MD	PM	TOTAL
558	0	1718	2274

LN	AM	MD	PM	TOTAL
1	8	0	7	15
2	319	0	820	939
1	228	0	113	341



TOTAL	PM	MD	AM
1183	0	444	1537

Carbon Canyon Road

TOTAL	357	0	1331
PM	206	0	1095
MD	0	0	0
AM	151	0	238
LN	1	0.5	1.5

AM COUNT	6:00 AM	TO	10:00 AM	MD COUNT	11:00 AM	TO	1:00 PM	PM COUNT	3:00 PM	TO	6:00 PM
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VEHICLE TURNING MOVEMENT COUNT

#002 Carbon Canyon Road & Chino Hills Parkway - AM PEAK

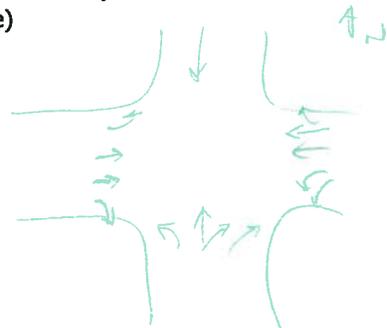
LOCATION#:	002	QTD PROJ#:	700160
NORTH / SOUTH:	Carbon Canyon Road	DATE:	Tuesday, June 05, 2012
EAST / WEST:	Chino Hills Parkway	VICINITY:	Chino Hills, CA

DIRECTION:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTALS
LANES:	1	0.5	1.5	1	1	0	1	2	1	2	2	0	
7:00 AM	38	0	55	0	0	0	3	87	67	286	138	0	674
7:15 AM	41	0	58	0	0	0	2	83	64	267	113	0	628
7:30 AM	36	0	54	1	0	0	1	70	48	219	118	2	549
7:45 AM	36	0	69	0	0	2	2	79	49	193	107	0	537
8:00 AM	39	0	61	0	0	0	2	82	51	180	99	0	514
8:15 AM	38	0	70	0	0	0	1	88	43	173	87	0	500
8:30 AM	42	0	66	0	0	0	3	100	62	156	85	0	514
8:45 AM	36	0	62	2	0	1	2	74	43	171	91	1	483

VOLUME STATS:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
TOTAL:	306	0	495	3	0	3	16	663	427	1645	838	3	4399
P.H.V: ¹	151	0	236	1	0	2	8	319	228	965	476	2	2388
P.H.F: ²	0.921		0.375			0.884			0.851			0.886	

(1) Peak Hour Volume (Peak Hour Begins At 700 AM)

(2) Peak Hour Factor (directional aggregate)



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VEHICLE TURNING MOVEMENT COUNT

#002 Carbon Canyon Road & Chino Hills Parkway - PM PEAK

LOCATION#:	002	QTD PROJ#:	700160
NORTH / SOUTH:	Carbon Canyon Road	DATE:	Tuesday, June 05, 2012
EAST / WEST:	Chino Hills Parkway	VICINITY:	Chino Hills, CA

DIRECTION:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTALS
LANES:	1	0.5	1.5	1	1	0	1	2	1	2	2	0	
4:00 PM	41	0	316	3	0	0	2	136	31	71	84	4	688
4:15 PM	54	0	275	0	0	1	1	133	33	71	85	1	654
4:30 PM	47	0	276	0	0	0	0	141	32	68	83	0	647
4:45 PM	43	0	267	2	0	3	0	137	35	74	78	3	642
5:00 PM	46	0	264	0	0	0	0	158	24	80	80	1	653
5:15 PM	54	0	277	1	0	2	1	172	26	83	79	2	697
5:30 PM	47	0	288	2	0	1	1	154	29	85	71	2	680
5:45 PM	59	0	266	0	0	1	5	136	34	83	81	1	666

VOLUME STATS:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTALS
TOTAL:	391	0	2229	8	0	8	10	1167	244	615	641	14	5327
P.H.V: ¹	206	0	1095	3	0	4	7	620	113	331	311	6	2696
P.H.F: ²		0.971			0.583			0.930			0.982		0.967

(1) Peak Hour Volume (Peak Hour Begins At 500 PM)

(2) Peak Hour Factor (directional aggregate)



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