December 21, 2018

Mr. Milton Economy 1052 Flager Ranch Road Corona, CA 92881

LLG Reference: 2.18.4044.1

Subject:

Traffic Impact Assessment for the Proposed Green River Promenade Fast-Food Project

Corona, California

Dear Mr. Economy:

Linscott, Law & Greenspan, Engineers (LLG) is pleased to submit this Traffic Impact Assessment for the proposed Green River Promenade Fast-Food project (herein referred to as "Project") located in the City of Corona. The project site is a vacant pad located along the south side of Green River Road within the northern portion of the existing Green River Promenade shopping Center. *Figure 1* presents a Vicinity Map, which illustrates the general location of the project site and depicts the surrounding street system. *Figure 2* presents the existing aerial site plan for the site, which depicts the location of the proposed Project site (Pad 120) as well as the other vacant fast-food pad (Pad 119) within the center. It should be noted that this Traffic Impact Assessment does not specifically analyze the Pad 119 fast-food development, but Pad 119 is included in the "Project Buildout" traffic analysis. Furthermore, it should be noted that two (2) fast-food pads (Pad 119 and Pad 120) were entitled as a 3,500 square-foot (SF) Retail shops building (Pad 120) and a 4,000 SF high-turnover sit down restaurant (Pad 119) as part of the approval of the entire Green River Promenade development.

This letter report will outline the traffic generation forecast potential for the proposed fast-food Project (Pad 120) versus the entitled development of the vacant pad site (3,500 SF retail building) and assess whether the proposed Project will create any potential traffic impacts on the surrounding transportation system.

Figure 3 presents the site plan for the proposed fast-food Project, prepared by David York, Architect. As presented on Figure 3, the proposed fast-food Project will consist of a 2,242 SF fast-food restaurant with drive-through window. Project access is proposed along Green River Road via two (2) existing stop-controlled driveways and along Dominguez Ranch Road via one (1) existing stop-controlled driveway.



Engineers & Planners Traffic Transportation Parking

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Project Traffic Generation Forecast Comparison Analysis

Traffic generation is expressed in vehicle trip ends, defined as one-way vehicular movements, either entering or exiting the generating land use. Generation rates used in the traffic forecasting procedure are found in the 10th Edition of *Trip Generation*, published by the Institute of Transportation Engineers (ITE) [Washington D.C., 2017].

Table 1 presents the trip generation potential for the proposed Project (and Pad 119) and was estimated using the ITE rates for Land Use Code 934: Fast-Food Restaurant with Drive-Through Window. In addition, the trip generation potential for the two (2) entitled land uses were estimated using the ITE equation/rates for Land Use Code 820: Shopping Center (Pad 120) and High Turnover sit Down Restaurant Land Use Code 932: High Turnover sit Down Restaurant (Pad 119). It should be noted that the Pad 120 retail trip generation rates are based on the ITE 820 regression equation for the entire center square-footage (i.e. 92,089 SF).

Review of the middle portion of *Table 1* shows that the proposed Project (Pad 120) is forecast to generate 598 net greater weekday daily trips, 39 net greater weekday AM peak hour trips (+19 inbound, +20 outbound), and 23 net greater weekday PM peak hour trips (+13 inbound, +10 outbound) compared to the 3,500 SF entitled retail land use.

Review of the bottom portion of *Table 1* shows that the other fast-food restaurant pad (Pad 119) is forecast to generate 329 net greater weekday daily trips, 6 net greater weekday AM peak hour trips (+1 inbound, +5 outbound), and 12 net greater weekday PM peak hour trips (+3 inbound, +9 outbound) compared to the 4,000 SF entitled high turnover sit down restaurant land use.

From a "trip budgeting" point of view, the weekday AM and PM peak hours typically govern as traffic studies focus the potential impact of a development project during the weekday AM peak hour and PM peak hour. While daily traffic is of interest, it is not the basis of peak hour service level calculations that are conducted during the preparation of traffic studies.

A qualitative assessment of the addition of 39 net AM peak hour Project trips and 23 net PM peak hour Project trips, when distributed throughout the project vicinity, would result in essentially no more than 19 net new AM or PM peak hour trips assigned to any of the surrounding intersections or roadways.

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Using the "50 trip threshold" criteria as indicated in the City of Corona Traffic Impact Study Guidelines as the basis for requiring the preparation of a traffic impact analysis, the proposed Project would not require the preparation of a traffic impact analysis or comprehensive traffic impact assessment.

As a result, based on the net traffic generation potential of the proposed Green River Promenade Fast-Food project (Pad 120), the proposed 2,242 SF Fast-Food Restaurant with Drive-Through window will not significantly impact the surrounding transportation system.

Site Access Analysis

As presented in *Figure 3*, site access is proposed along Green River Road via two (2) existing stop-controlled driveways [one right-in/right-out driveway (Driveway 1) and one right-in/right-out/left-in driveway (Driveway 2)] and along Dominguez Ranch Road via one (1) existing full movement stop-controlled driveway. In support of the site access analysis, level of service calculations have been conducted at the three (3) existing Project driveways along Green River Road and Dominguez Ranch Road for Existing and Project buildout (Year 2020) conditions. *Figure 4* presents the existing AM and PM peak hour traffic volumes at the Project driveways while *Figure 5* presents the Project buildout (Year 2020) AM and PM peak hour traffic volumes at the Project driveways along Green River Road and Dominguez Ranch Road, which consist of the proposed Project (Pad 120) traffic generation assigned to the existing peak hour traffic volume data with 4% ambient growth (2% per year) plus Pad 119 traffic. It should be noted that the gross Project traffic generation (both Pads 120 and 119) were applied to the three (3) site driveways.

Appendix A contains the existing traffic count data at the three (3) existing Green River Promenade driveways that will experience Project traffic.

In conformance with City of Corona requirements, AM peak hour and PM peak hour operating conditions for the proposed Project driveways serving the site were evaluated using the methodology outlined in *Chapter 20 of the HCM 6* for unsignalized intersections. This methodology estimates the average control delay for each of the subject movements and determines the level of service for each movement. For one-way stop-controlled (minor street stop-controlled) intersections, this methodology estimates the worst side street delay, measured in seconds per vehicle and determines the level of service for that approach. The HCM control delay value translates to a Level of Service (LOS) estimate, which is a relative measure of the intersection performance.

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Table 2, attached, summarizes the levels of service (LOS) at the three (3) existing Green River Promenade driveways for Existing (2018) and Project Buildout (Year 2020) traffic conditions. As shown in column (2) of Table 2, the three (3) existing Green River Promenade driveways are forecast to operate at acceptable levels of service LOS C or better during the AM and PM peak hours under Project Buildout (Year 2020) traffic conditions.

Appendix B contains the HCM/LOS calculation worksheets for the three (3) existing Green River Promenade driveways.

Conclusion and Findings

Based on the net traffic generation potential of the proposed Green River Promenade Fast-Food Restaurant Project (Pad 120), the proposed 2,242 SF fast-food restaurant with drive-through window does not require the preparation of a traffic impact analysis report and will not significantly impact the surrounding transportation system or the three (3) existing Green River Promenade driveways.

We appreciate the opportunity to provide this traffic impact assessment letter. Should you have any questions, please call me at (949) 825-6175.

Very truly yours,

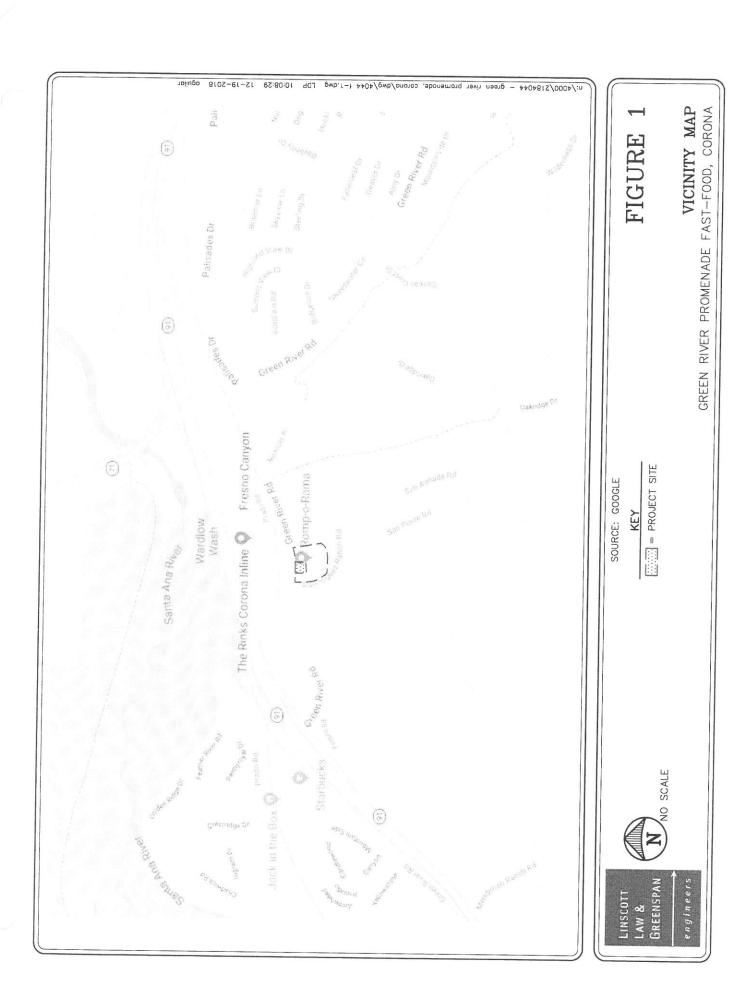
Linscott, Law & Greenspan, Engineers

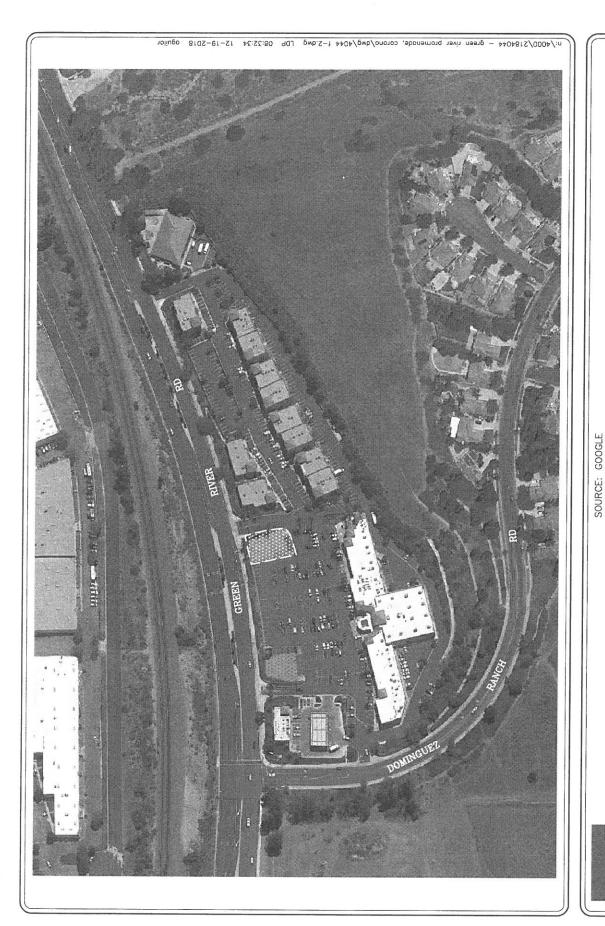
Keil D. Maberry, P.E.

Principal

Attachments







FIGURE

Q

EXISTING AERIAL SITE PLAN GREEN RIVER PROMENADE FAST-FOOD, CORONA

PROPOSED PROJECT (PAD 120)

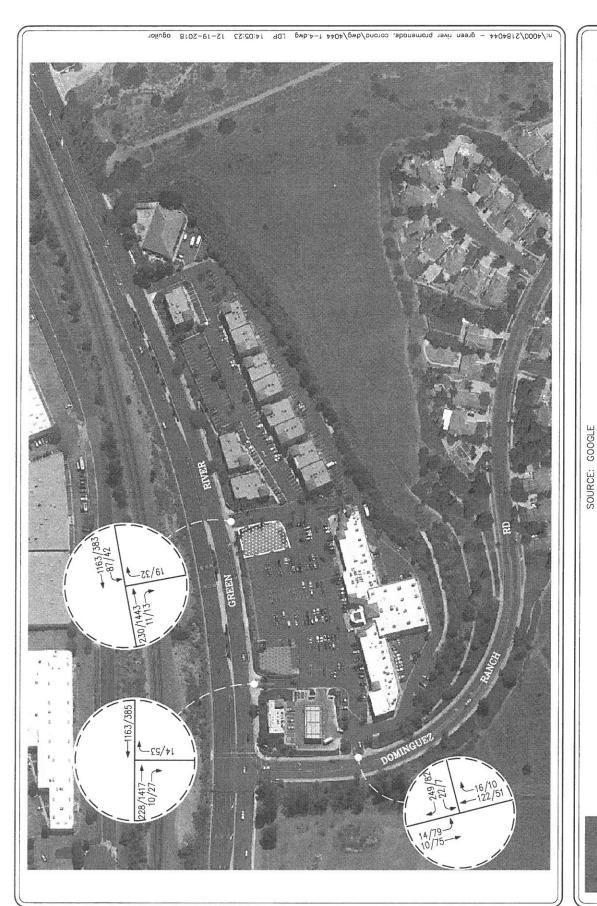
ΚĒΥ

= PAD 119



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FIGURE

EXISTING AM/PM PEAK HOUR TRAFFIC VOLUMES GREEN RIVER PROMENADE FAST-FOOD, CORONA

E PROPOSED PROJECT (PAD 120)

= PAD 119

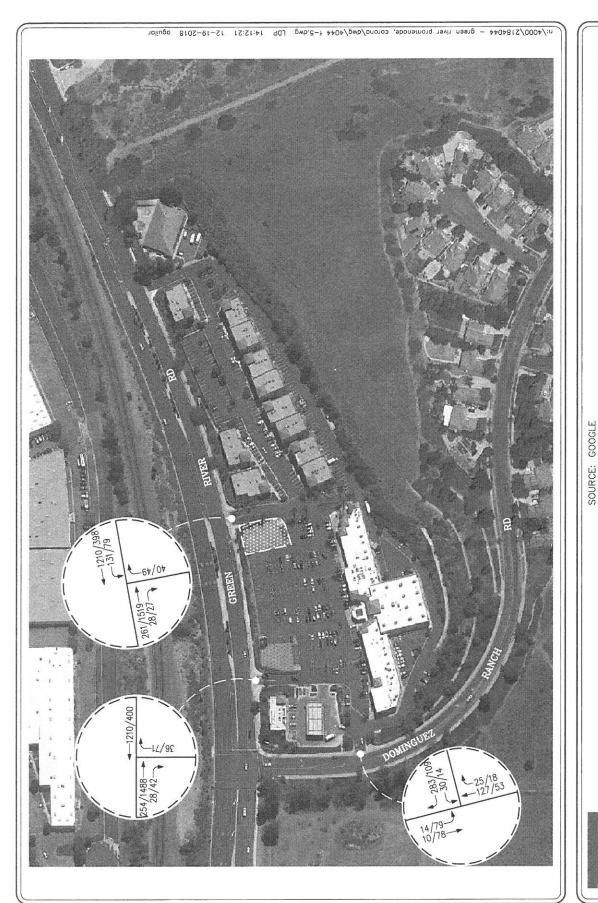
NO SCALE

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XX/YY = AM/PM TRAFFIC VOLUMES



5

PROJECT BUILDOUT AM/PM PEAK HOUR TRAFFIC VOLUMES

GREEN RIVER PROMENADE FAST-FOOD, CORONA

XX/YY = AM/PM TRAFFIC VOLUMES

= PAD 119

E PROPOSED PROJECT (PAD 120)

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TABLE 1
PROJECT TRAFFIC GENERATION RATES AND FORECAST¹
GREEN RIVER PROMENADE FAST-FOOD, CORONA

ITE Land Use Code /	Daily	AN	A Peak H	our	PM	I Peak Ho	our
Project Description	2-Way	Enter	Exit	Total	Enter	Exit	Total
Generation Factors:							
■ 820: Shopping Center (TE/TSF) ²	61.73	62%	38%	2.15	48%	52%	5.55
■ 932: High Turnover Sit Down Restaurant (TE/TSF)	112.18	55%	45%	9.94	62%	38%	9.77
■ 934: Fast Food Restaurant with Drive-Through Window (TE/TSF)	470.95	51%	49%	40.19	52%	48%	32.67
Pad 120 (Proposed Project) Generation Forecast:							
 Pad 120 (Proposed Project) Fast Food (2,242 SF) 	1,056	46	44	90	38	35	73
Pass-by Rates (Daily: 25%, AM: 49% PM: 50%) ³	<u>-264</u>	<u>-23</u>	<u>-21</u>	<u>-44</u>	-19	<u>-18</u>	<u>-37</u>
Pad 120 (Proposed Project) Subtotal	792	23	23	46	19	17	36
Entitled Retail (3,500 SF)	216	5	3	8	9	10	19
Pass-by Rates (Daily: 10%, AM: 10% PM: 34%) ⁴	<u>-22</u>	<u>-1</u>	<u>0</u>	<u>-1</u>	<u>-3</u>	<u>-3</u>	<u>-6</u>
Entitled Retail Subtotal	194	4	3	7	6	7	13
Pad 120 (Proposed Project) Net Trip Generation (A)	598	19	20	39	13	10	23
Pad 119 Generation Forecast:							
 Pad 119 Fast Food (2,077 SF) 	978	42	41	83	35	33	68
Pass-by Rates (Daily: 25%, AM: 49% PM: 50%) ³	<u>-245</u>	<u>-21</u>	<u>-20</u>	<u>-41</u>	<u>-18</u>	<u>-16</u>	<u>-34</u>
Pad 119 Subtotal	733	21	21	42	17	17	34
 Entitled Restaurant (4,000 SF) 	449	22	18	40	24	15	39
Pass-by Rates (Daily: 10%, AM: 10% PM: 43%) ⁵	<u>-45</u>	<u>-2</u>	<u>-2</u>	<u>-4</u>	<u>-10</u>	<u>-7</u>	<u>-17</u>
Entitled Restaurant Subtotal	404	20	16	36	14	8	22
Pad 119 Net Trip Generation (B)	329	1	5	6	3	9	12
Total Net Traffic Generation Forecast (A + B)	927	20	25	45	16	19	35

Notes:

TE/TSF = Trip ends per thousand square feet

AM Peak Hour: T = 0.50*X + 151.78PM Peak Hour: In(T) = 0.74*In(X) + 2.89

Source: Trip Generation, 10th Edition, Institute of Transportation Engineers, (ITE) [Washington, D.C. (2017)].

Trip Generation rates based on a square-footage of 92,089 SF and the following equations: Daily: ln(T) = 0.68*ln(X) + 5.57

Consistent with the Trip Generation Handbook, 3rd Edition, Institute of Transportation Engineers, (ITE) [Washington, D.C. (2014)]. Pass-by reductions for fast food restaurant with drive through window consist of the following: estimated 25% daily, 49% AM, and 50% PM.

Consistent with the Trip Generation Handbook, 3rd Edition, Institute of Transportation Engineers, (ITE) [Washington, D.C. (2014)]. Pass-by reductions for shopping center consist of the following: estimated 10% daily, estimated 10% AM, and 34% PM.

Consistent with the Trip Generation Handbook, 3rd Edition, Institute of Transportation Engineers, (ITE) [Washington, D.C. (2014)]. Pass-by reductions for high turnover sit down restaurant consist of the following: estimated 10% daily, estimated 10% AM, and 43% PM.



TABLE 2 PEAK HOUR INTERSECTION CAPACITY ANALYSIS SUMMARY GREEN RIVER PROMENADE FAST-FOOD, CORONA

			Existing (1) Year 2018) Conditions	Year With Proje	2) 2020 ct Buildout onditions
Key	Intersection	Time Period	Delay (s/v)	LOS	Delay (s/v)	LOS
,	Driveway 1 at	AM	9.8	A	10.1	В
1.	Green River Road	PM	19.8	C	22.6	С
2.	Driveway 2 at	AM	9.8	Α	10.1	В
۷.	Green River Road	PM	18.6	C	20.7	С
3.	Dominguez Ranch Road	AM	10.8	В	11.4	В
٥.	Driveway 3	PM	9.1	Α	9.5	A

Notes:

- s/v = seconds per vehicle (delay)
- LOS = Level of Service
- Bold Delay/LOS values indicate adverse service levels

APPENDIX A

EXISTING TRAFFIC COUNT DATA

City of Corona N/S: Driveway 1 E/W: Green River Road Weather: Clear

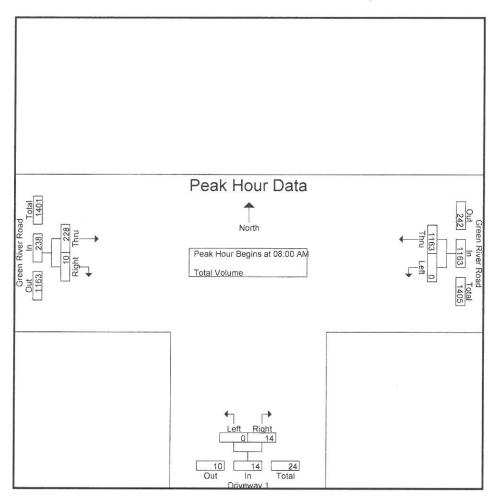
File Name: 01_COR_DW1_Green River Road AM Site Code: 05718914 Start Date: 12/4/2018 Page No: 1

	oad	n River R	Gree		Driveway 1	[load	en River R	Gree	
	Eastbound			d	lorthbound	N	d	Nestbound	V	
Int. Tota	App. Total	Right	Thru	App. Total	Right	Left	App. Total	Thru	Left	Start Time
35	78	0	78	4	4	0	274	274	0	07:00 AM
28	74	0	74	1	1	0	208	208	0	07:15 AM
33	77	1	76	4	4	0	252	252	0	07:30 AM
27	57	3	54	3	3	0	217	217	0	07:45 AM
124	286	4	282	12	12	0	951	951	0	Total
33	47	3	44	1	1	0	283	283	0	08:00 AM
32	57	0	57	3	3	0	267	267	0	08:15 AM
37	78	6	72	4	4	0	293	293	0	08:30 AM
38	56	1	55	6	6	0	320	320	0	08:45 AM
141	238	10	228	14	14	0	1163	1163	0	Total
266	524	14	510	26	26	0	2114	2114	0	Grand Total
		2.7	97.3	200	100	0		100	0	Apprch %
	19.7	0.5	19.1	1	1	0	79.4	79.4	0	Total %

		en River R Vestbound			Driveway 1 Northbound			en River R Eastbound		
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From	n 07:00 AM	to 08:45 A	AM - Peak 1 of 1							
Peak Hour for Entire Inter	rsection Be	gins at 08	:00 AM							
08:00 AM	0	283	283	0	1	1	44	3	47	331
08:15 AM	0	267	267	0	3	3	57	0	57	327
08:30 AM	0	293	293	0	4	4	72	6	78	375
08:45 AM	0	320	320	0	6	6	55	1	56	382
Total Volume	0	1163	1163	0	14	14	228	10	238	1415
% App. Total	0	100		0	100		95.8	4.2		
PHF	.000	.909	.909	.000	.583	.583	.792	.417	.763	.926

City of Corona N/S: Driveway 1 E/W: Green River Road Weather: Clear

File Name: 01_COR_DW1_Green River Road AM Site Code: 05718914 Start Date: 12/4/2018 Page No: 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1

	08:00 AM			08:00 AM			07:00 AM		
+0 mins.	0	283	283	0	1	1	78	0	78
+15 mins.	0	267	267	0	3	3	74	0	74
+30 mins.	0	293	293	0	4	4	76	1	77
+45 mins.	0	320	320	0	6	6	54	3	57
Total Volume	0	1163	1163	0	14	14	282	4	286
% App. Total	0	100	V	0	100		98.6	1.4	
PHF	.000	.909	.909	.000	.583	.583	.904	.333	.917

City of Corona N/S: Driveway 1 E/W: Green River Road Weather: Clear

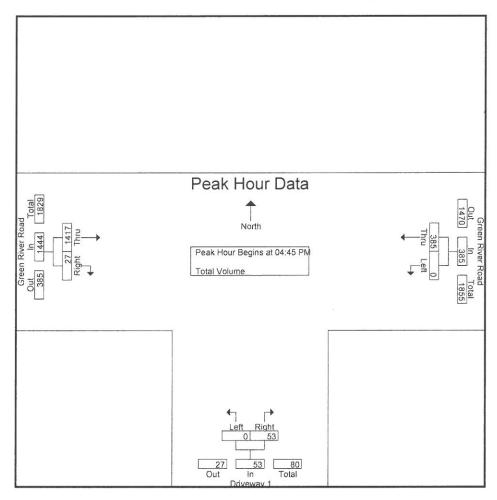
File Name: 01_COR_DW1_Green River Road PM Site Code: 05718914 Start Date: 12/4/2018 Page No: 1

			Gre	oups Printe	ed-Total V	olume				
	Gree	en River R	oad		Driveway 1			en River R	0.0000000000000000000000000000000000000	
	V	Vestbound		1	Northbound	d	Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	0	78	78	0	14	14	293	5	298	390
04:15 PM	0	87	87	0	9	9	316	3	319	415
04:30 PM	0	80	80	0	13	13	344	6	350	443
04:45 PM	0	101	101	0	16	16	349	13	362	479
Total	0	346	346	0	52	52	1302	27	1329	1727
05:00 PM	0	100	100	0	11	11	344	5	349	460
05:15 PM	0	93	93	0	13	13	356	5	361	467
05:30 PM	0	91	91	0	13	13	368	4	372	476
05:45 PM	0	82	82	0	16	16	327	5	332	430
Total	0	366	366	0	53	53	1395	19	1414	1833
Grand Total Apprch %	0	712 100	712	0	105 100	105	2697 98.3	46 1.7	2743	3560
Total %	Ö	20	20	Ö	2.9	2.9	75.8	1.3	77.1	

		en River R Vestbound			Driveway '	1		en River R Eastbound		
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From	04:00 PM	to 05:45 F	PM - Peak 1 of	1						
Peak Hour for Entire Inte	rsection Be	gins at 04	:45 PM							
04:45 PM	0	101	101	0	16	16	349	13	362	479
05:00 PM	0	100	100	0	11	11	344	5	349	460
05:15 PM	0	93	93	0	13	13	356	5	361	467
05:30 PM	0	91	91	0	13	13	368	4	372	476
Total Volume	0	385	385	0	53	53	1417	27	1444	1882
% App. Total	0	100		0	100		98.1	1.9		
PHF	.000	.953	.953	.000	.828	.828	.963	.519	.970	.982

City of Corona N/S: Driveway 1 E/W: Green River Road Weather: Clear

File Name : 01_COR_DW1_Green River Road PM Site Code : 05718914 Start Date : 12/4/2018 Page No : 2



Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1

	04:45 PM			04:30 PM			04:45 PM		
+0 mins.	0	101	101	0	13	13	349	13	362
+15 mins.	0	100	100	0	16	16	344	5	349
+30 mins.	0	93	93	0	11	11	356	5	361
+45 mins.	0	91	91	0	13	13	368	4	372
Total Volume	0	385	385	0	53	53	1417	27	1444
% App. Total	0	100		0	100		98.1	1.9	30 00300-9
PHF	.000	.953	.953	.000	.828	.828	.963	.519	.970

City of Corona N/S: Driveway 2 E/W: Green River Road Weather: Clear

File Name: 02_COR_DW2_Green River Road AM Site Code: 05718914 Start Date: 12/4/2018 Page No: 1

Grou	ps	Printed-	Total	Volume

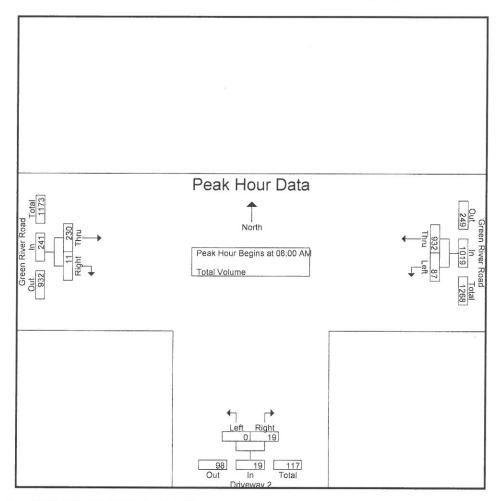
				June	u- Total Vi	Houps Plinte				
	oad	en River Ro	Gree		Driveway 2			en River R		
		Eastbound			orthbound			Westbound	V	
Int. Total	App. Total	Right	Thru	App. Total	Right	Left	App. Total	Thru	Left	Start Time
329	74	6	68	0	0	0	255	247	8	07:00 AM
287	80	0	80	1	1	0	206	199	7	07:15 AM
292	76	3	73	2	2	0	214	202	12	07:30 AM
281	61	3	58	1	1	0	219	214	5	07:45 AM
1189	291	12	279	4	4	0	894	862	32	Total
283	47	4	43	1	1	0	235	224	11	08:00 AM
294	62	2	60	4	4	0	228	220	8	08:15 AM
344	72	3	69	3	3	0	269	243	26	08:30 AM
358	60	2	58	11	11	0	287	245	42	08:45 AM
1279	241	11	230	19	19	0	1019	932	87	Total
2468	532	23	509	23	23	0	1913	1794	119	Grand Total
		4.3	95.7		100	0		93.8	6.2	Apprch %
	21.6	0.9	20.6	0.9	0.9	0	77.5	72.7	4.8	Total %

		en River R Vestbound			Driveway 2 Northboun			en River R Eastbound		
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From	n 07:00 AM	to 08:45 A	AM - Peak 1 of 1							
Peak Hour for Entire Inte	ersection Be	gins at 08	:00 AM							
08:00 AM	11	224	235	0	1	1	43	4	47	283
08:15 AM	8	220	228	0	4	4	60	2	62	294
08:30 AM	26	243	269	0	3	3	69	3	72	344
08:45 AM	42	245	287	0	11	11	58	2	60	358
Total Volume	87	932	1019	0	19	19	230	11	241	1279
% App. Total	8.5	91.5		0	100		95.4	4.6		
PHF	.518	.951	.888	.000	.432	.432	.833	.688	.837	.893

City of Corona N/S: Driveway 2 E/W: Green River Road Weather: Clear

File Name : 02_COR_DW2_Green River Road AM Site Code : 05718914 Start Date : 12/4/2018

Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1

Peak Hour fo	Each	Approach	Begins	at:
--------------	------	----------	--------	-----

Peak Hour for Each A	pproach Begin	is at:							
	08:00 AM			MA 00:80			07:00 AM		
+0 mins.	11	224	235	0	1	1	68	6	74
+15 mins.	8	220	228	0	4	4	80	0	80
+30 mins.	26	243	269	0	3	3	73	3	76
+45 mins.	42	245	287	0	11	11	58	3	61
Total Volume	87	932	1019	0	19	19	279	12	291
% App. Total	8.5	91.5		0	100		95.9	4.1	
PHF	.518	.951	.888	.000	.432	.432	.872	.500	.909

City of Corona N/S: Driveway 2 E/W: Green River Road Weather: Clear

File Name: 02_COR_DW2_Green River Road PM Site Code: 05718914 Start Date: 12/4/2018 Page No: 1

Printed Total Valu

				olume	d- Lotal Vo	Broups Printe	(
	oad	en River R	Gree		Driveway 2	[ad	en River Ro	Gree	
		Eastbound	E		Northbound			Nestbound	V	
Int. Total	App. Total	Right	Thru	App. Total	Right	Left	App. Total	Thru	Left	Start Time
404	309	5	304	14	13	1	81	77	4	04:00 PM
423	319	6	313	7	7	0	97	84	13	04:15 PM
463	360	1	359	16	16	0	87	81	6	04:30 PM
480	368	4	364	9	9	0	103	100	3	04:45 PM
1770	1356	16	1340	46	45	1	368	342	26	Total
462	349	5	344	5	5	0	108	98	10	05:00 PM
493	367	0	367	10	10	0	116	96	20	05:15 PM
478	372	4	368	8	6	2	98	89	9	05:30 PM
452	345	3	342	14	13	1	93	81	12	05:45 PM
1885	1433	12	1421	37	34	3	415	364	51	Total
3655	2789	28	2761	83	79	4	783	706	77	Grand Total
		1	99		95.2	4.8		90.2	9.8	Apprch %
	76.3	0.8	75.5	2.3	2.2	0.1	21.4	19.3	2.1	Total %

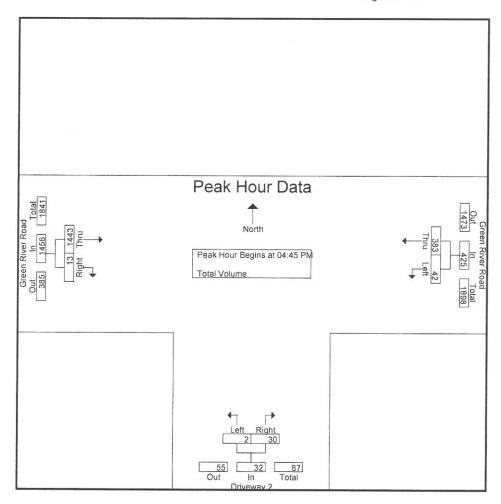
		en River Ro Vestbound	1 7 7 7 7		Driveway 2 Northbound	27		en River R Eastbound	15.55.57/	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fron	n 04:00 PM	to 05:45 P	M - Peak 1 of 1							
Peak Hour for Entire Inte	rsection Beg	gins at 04:	45 PM							
04:45 PM	3	100	103	0	9	9	364	4	368	480
05:00 PM	10	98	108	0	5	5	344	5	349	462
05:15 PM	20	96	116	0	10	10	367	0	367	493
05:30 PM	9	89	98	2	6	8	368	4	372	478
Total Volume	42	383	425	2	30	32	1443	13	1456	1913
% App. Total	9.9	90.1		6.2	93.8		99.1	0.9		, , , ,
PHF	.525	.958	.916	.250	.750	.800	.980	.650	.978	.970

City of Corona N/S: Driveway 2 E/W: Green River Road

Weather: Clear

File Name : 02_COR_DW2_Green River Road PM Site Code : 05718914

Start Date : 12/4/2018 Page No : 2



Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

	04:45 PM			04:00 PM			04:45 PM		
+0 mins.	3	100	103	1	13	14	364	4	368
+15 mins.	10	98	108	0	7	7	344	5	349
+30 mins.	20	96	116	0	16	16	367	0	367
+45 mins.	9	89	98	0	9	9	368	4	372
Total Volume	42	383	425	1	45	46	1443	13	1456
% App. Total	9.9	90.1		2.2	97.8		99.1	0.9	
PHF	.525	.958	.916	.250	.703	.719	.980	.650	.978

City of Corona N/S: Dominguez Ranch Road E/W: Driveway 3 Weather: Clear

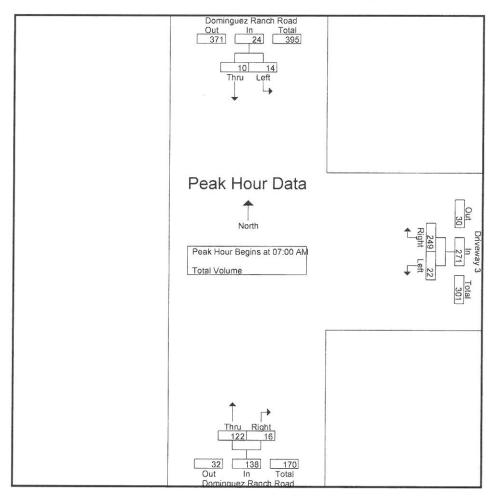
File Name : 03_COR_Dominguez Ranch_DW3 AM Site Code : 05718914 Start Date : 12/4/2018 Page No : 1

Ranch Road			ips Printed	riveway 3		Domino	uez Ranc	h Dood	
		Jau							
ound				<u>Vestbound</u>			lorthbound		
ru App.	Start Time	op. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
4	07:00 AM	8	5	50	55	38	4	42	105
2	07:15 AM	3	1	70	71	36	4	40	114
2	07:30 AM	7	4	63	67	26	3	29	103
2	07:45 AM	6	12	66	78	22	5	27	111
10	Total	24	22	249	271	122	16	138	433
2	MA 00:80	6	4	56	60	19	7	26	92
5	08:15 AM	6	5	39	44	16	2	18	68
1	08:30 AM	5	7	45	52	23	1	24	81
11	08:45 AM	22	4	22	26	19	0	19	67
19	Total	39	20	162	182	77	10	87	308
29	Grand Total	63	42	411	453	199	26	225	741
46	Apprch %		9.3	90.7		88.4	11.6		
3.9	Total %	8.5	5.7	55.5	61.1	26.9	3.5	30.4	

	0	uez Ranch outhbound			Driveway 3 Nestbound			juez Ranc Vorthbound		
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From	n 07:00 AM	to 08:45 Af	M - Peak 1 of 1							
Peak Hour for Entire Inte	rsection Be	gins at 07:0	00 AM							
07:00 AM	4	4	8	5	50	55	38	4	42	105
07:15 AM	1	2	3	1	70	71	36	4	40	114
07:30 AM	5	2	7	4	63	67	. 26	3	29	103
07:45 AM	4	2	6	12	66	78	22	5	27	111
Total Volume	14	10	24	22	249	271	122	16	138	433
% App. Total	58.3	41.7		8.1	91.9		88.4	11.6		
PHF	.700	.625	.750	.458	.889	.869	.803	.800	.821	.950

City of Corona N/S: Dominguez Ranch Road E/W: Driveway 3 Weather: Clear

File Name : 03_COR_Dominguez Ranch_DW3 AM Site Code : 05718914 Start Date : 12/4/2018 Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1

	Peak Hour	for	Each	Approach	Begins at:
--	-----------	-----	------	----------	------------

Peak Hour for Each A	pproach Begin	s at:							
	08:00 AM			07:15 AM			07:00 AM		
+0 mins.	4	2	6	1	70	71	38	4	42
+15 mins.	1	5	6	4	63	67	36	4	40
+30 mins.	4	1	5	12	66	78	26	3	29
+45 mins.	11	11	22	4	56	60	22	5	27
Total Volume	20	19	39	21	255	276	122	16	138
% App. Total	51.3	48.7		7.6	92.4		88.4	11.6	
PHF	.455	.432	.443	.438	.911	.885	.803	.800	.821

City of Corona N/S: Dominguez Ranch Road E/W: Driveway 3 Weather: Clear

File Name : 03_COR_Dominguez Ranch_DW3 PM Site Code : 05718914 Start Date : 12/4/2018 Page No : 1

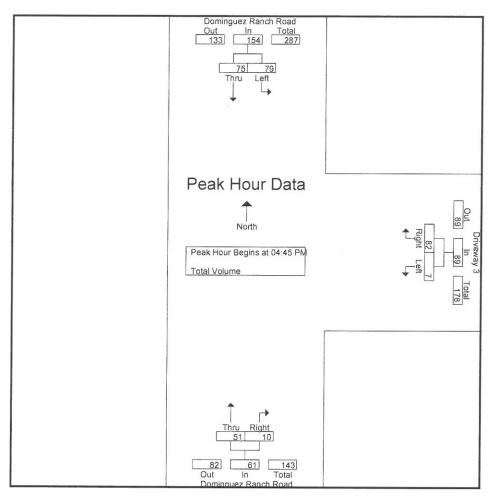
				roups Printe	d- Total V	olume				
				[Driveway 3		Doming	guez Ranc	h Road	
	S	Southbound	1	V	Vestbound		1	Vorthbound	t	
ime	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
PM	31	10	41	0	29	29	13	1	14	84
PM	24	13	37	0	27	27	6	0	6	70
PM	17	9	26	0	15	15	7	0	7	48
PM	17	17	34	0	17	17	21	2	23	74
otal	89	49	138	0	88	88	47	3	50	276
PM	17	16	33	2	25	27	11	4	15	75
PM	19	23	42	4	23	27	10	3		82
PM	26	19	45	1	17	18	9	1	5-2227	73
PM	19	14	33	3	12	- 15	7	4	11	59
otal	81	72	153	10	77	87	37	12	49	289
	170 58.4	121 41.6	291	10 5.7	165 94.3	175	84 84.8	15 15.2	99	565
1%	30.1	21.4	51.5	1.8	29.2	31	14.9	2.7	17.5	
	ime PM PM PM otal PM PM otal PM Otal PM PM Otal PM PM Otal	ime Left PM 31 PM 24 PM 17 Otal 89 PM 19 PM 26 PM 19 Otal 81 Otal 170 n % 58.4	Southbound	Dominguez Ranch Road Southbound Southbound So	Dominguez Ranch Road Southbound Notes	Dominguez Ranch Road Southbound Westbound Westbound Westbound	Southbound Westbound Westbound	Dominguez Ranch Road Southbound Driveway 3 Westbound No. No.	Dominguez Ranch Road Southbound Northbound Northb	Dominguez Ranch Road Southbound Northbound Northb

		uez Ranc outhbound	SUCCESSOR STATE OF THE SECOND		Driveway 3 Nestbound		,	guez Ranc Northbound		
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Tota
Peak Hour Analysis Fror	m 04:00 PM	to 05:45 F	PM - Peak 1 of 1							
Peak Hour for Entire Inte	ersection Be	gins at 04	:45 PM							
04:45 PM	17	17	34	0	17	17	21	2	23	74
05:00 PM	17	16	33	2	25	27	11	4	15	75
05:15 PM	19	23	42	4	23	27	10	3	13	82
05:30 PM	26	19	45	1	17	18	9	1	10	73
Total Volume	79	75	154	7	82	89	51	10	61	304
% App. Total	51.3	48.7		7.9	92.1		83.6	16.4	0,	004
PHF	.760	.815	.856	.438	.820	.824	.607	.625	.663	.927

City of Corona N/S: Dominguez Ranch Road E/W: Driveway 3 Weather: Clear

File Name: 03_COR_Dominguez Ranch_DW3 PM Site Code: 05718914 Start Date: 12/4/2018

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Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

	04:45 PM			04:45 PM			04:45 PM		
+0 mins.	17	17	34	0	17	17	21	2	23
+15 mins.	17	16	33	2	25	27	11	4	15
+30 mins.	19	23	42	4	23	27	10	3	13
+45 mins.	26	19	45	1	17	18	9	1	10
Total Volume	79	75	154	7	82	89	51	10	61
% App. Total	51.3	48.7		7.9	92.1		83.6	16.4	
PHF	.760	.815	.856	.438	.820	.824	.607	.625	.663

APPENDIX B

PROJECT DRIVEWAY LEVEL OF SERVICE CALCULATIONS

APPENDIX B-I

EXISTING TRAFFIC CONDITIONS

Intersection Level Of Service Report Intersection 1: Driveway 1 at Green River Road

Control Type: Analysis Method: Analysis Period:

Two-way stop HCM 6th Edition 15 minutes Delay (sec / veh):

9.8

Level Of Service: Volume to Capacity (v/c):

0.020

Intersection Setup

Name	Drive	way 1	Green R	iver Road	Green R	iver Road	
Approach	North	bound	East	oound	Westbound		
Lane Configuration	Г	+	- 11	F	11	111	
Turning Movement	Left	Right	Thru	Right	Left	Thru	
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	
No. of Lanes in Pocket	0	0	0	0	- 6	0	
Pocket Length [ft]	100.00	100.00	100.00	100.00	100 00	100 00	
Speed [mph]	30.00		45.00		45.00		
Grade [%]	0.00		0.00		0.00		
Crosswalk	Yes		N	0	No		

Volumes

Name	Drive	way 1	Green River Road		Green River Road	
Base Volume Input [veh/h]	į.	14	228	10	0	1163
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1,0000	1.0000
Heavy Vehicles Percentage [%]	2,00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	Ú	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	9	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	Đ.	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	9	0
Other Volume [veh/h]	0	0	0	0	6	0
Total Hourly Volume [veh/h]	Ũ	14	228	10	Q	1163
Peak Hour Factor	ù 9500	0.9500	0.9500	0.9500	0.9500	0.9500
Other Adjustment Factor	1,0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	4	60	3	15	306
Total Analysis Volume [veh/h]	Ü	15	240	11	0	1224
Pedestrian Volume [ped/h]	()				

Version 7.00-01

Scenario 1: 1 AM Ex

Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane			
Storage Area [veh]	9	0	Ö
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	()	0	

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio		0.02	0.00	0.00	0.00	0.01
d_M, Delay for Movement [s/veh]	9.00	9.79	e 00	0.00	0.00	0.00
Movement LOS		A	А	А		А
95th-Percentile Queue Length [veh/ln]	0.00	0.06	0.00	0.00	0.00	0.00
95th-Percentile Queue Length [ft/In]	0.00	1.50	0.00	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	9.	79	0.	00	0.00	
Approach LOS	,	A	А		A	
d_I, Intersection Delay [s/veh]		0.10				
Intersection LOS	A					

Scenario 1: 1 AM Ex

Intersection Level Of Service Report Intersection 2: Driveway 2 at Green River Road

Control Type: Analysis Method: Two-way stop HCM 6th Edition Delay (sec / veh): Level Of Service: 9.8 A 0.026

Analysis Period:

15 minutes

Volume to Capacity (v/c):

Intersection Setup

Name	Driveway 2		Green R	iver Road	Green R	iver Road
Approach	Northbound		Eastbound		Westbound	
Lane Configuration	۲		- 11	lr	71	11
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12,00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	160.00	100,00	100.00	190,00	100.00	100 00
Speed [mph]	30	00	45.00		45.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		N	0	No	

Volumes

Name	Drive	eway 2	Green River Road		Green River Road	
Base Volume Input [veh/h]	Ü	19	230	11	87	1163
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	Ü	0	0	0	0	0
Site-Generated Trips [veh/h]	O	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	Ç	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	Q.	0	0	0	0	0
Total Hourly Volume [veh/h]	0	19	230	11	87	1163
Peak Hour Factor	0 9500	0.9500	0.9500	0.9500	0.9500	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	5	61	3	23	306
Total Analysis Volume [veh/h]	0	20	242	12	92	1224
Pedestrian Volume [ped/h]))		`

Version 7.00-01

Scenario 1: 1 AM Ex

Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane			
Storage Area [veh]	0	0	Ç
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	0	Ú	0

Movement, Approach, & Intersection Results

Intersection LOS	A				****	
d_I, Intersection Delay [s/veh]		0.68				
Approach LOS	,	4	A		А	
d_A, Approach Delay [s/veh]	9.	79	0.	00	0.	67
95th-Percentile Queue Length [ft/ln]	0.00	2.00	0.00	0.00	8.70	0.00
95th-Percentile Queue Length [veh/ln]	0.00	0.08	0.00	0.00	0.35	0.00
Movement LOS	10-290	А	А	А	А	А
d_M, Delay for Movement [s/veh]	0.00	9.79	0.00	p 0a	9.56	0.00
V/C, Movement V/C Ratio	0,00	0.03	0.00	0.00	0.10	0.01

Scenario 1: 1 AM Ex

Intersection Level Of Service Report Intersection 3: Dominguez Ranch Road at Driveway 3

Control Type: Analysis Method: Two-way stop HCM 6th Edition Delay (sec / veh): Level Of Service: 11.3 B 0.029

Analysis Method: Analysis Period:

15 minutes

Volume to Capacity (v/c):

Intersection Setup

Name	Dominguez Ranch Road		Dominguez Ranch Road		Driveway 3			
Approach	Northbound		Southbound		Westbound			
Lane Configuration	 		-		7		7	
Turning Movement	Thru	Right	Left	Thru	Left	Right		
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00		
No. of Lanes in Pocket	0	0	0	0	0	0		
Pocket Length [ft]	100.00	100.00	100.00	100,00	100 60	100.00		
Speed [mph]	30.	00	30.00		30.00			
Grade [%]	0.00		0.00		0.00			
Crosswalk	No		No		No			

Volumes

Name	Dominguez	Ranch Road	Dominguez Ranch Road		Driveway 3	
Base Volume Input [veh/h]	122	16	14	10	22	249
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	122	16	14	10	22	249
Peak Hour Factor	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	32	4	4	3	6	66
Total Analysis Volume [veh/h]	128	17	15	11	23	262
Pedestrian Volume [ped/h]					(

Scenario 1: 1 AM Ex

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	()	Ü
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	Q	0	Q

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	EL CES	0.01	5.00	0.03	0.29
d_M, Delay for Movement [s/veh]	0.00	0.90	7.53	0.00	11.31	10.78
Movement LOS	А	А	А	А	В	В
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.03	0.00	1.36	1.36
95th-Percentile Queue Length [ft/In]	0.00	0.00	0.79	0.00	34.03	34.03
d_A, Approach Delay [s/veh]	0.	00	4.	34	10	.82
Approach LOS	A	4	A		В	
d_I, Intersection Delay [s/veh]	7.01					
Intersection LOS	В					

Intersection Level Of Service Report Intersection 1: Driveway 1 at Green River Road

Control Type: Analysis Method:

Two-way stop

Delay (sec / veh): Level Of Service: 19.8

Analysis Period:

HCM 6th Edition 15 minutes

Volume to Capacity (v/c):

C 0.187

Intersection Setup

Name	Driveway 1		Green River Road		Green River Road	
Approach	North	bound	Easti	oound	West	bound
Lane Configuration	۲		IIF		111	
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	Q Q	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	160.00	100.00	100 00	100.00
Speed [mph]	30.	.00	45.00		45.00	
Grade [%]	0.00		0.	00	0.00	
Crosswalk	Ye	es	N	0	N	o

Volumes

Name	Drive	way 1	Green River Road		Green River Road	
Base Volume Input [veh/h]	0	53	1417	27	0	385
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	Ü	0
Site-Generated Trips [veh/h]	0	0	0	0	ō.	0
Diverted Trips [veh/h]	()	0	0	0	0	0
Pass-by Trips [veh/h]	6	0	0	0	O	0
Existing Site Adjustment Volume [veh/h]	Ú	0	0	0	£3	0
Other Volume [veh/h]	D.	0	0	0	0	0
Total Hourly Volume [veh/h]	r 0	53	1417	27	Q.	385
Peak Hour Factor	0.9600	0.9500	0.9500	0.9500	0.9560	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	í)	14	373	7	D.	101
Total Analysis Volume [veh/h]	Ü	56	1492	28	0	405
Pedestrian Volume [ped/h]	())	(

Green River Promenade, Corona

Scenario 2: 2 PM Ex

Version 7.00-01

Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane			
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	()	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio		0.19	f0. G 1	0.09	0.09	0.00
d_M, Delay for Movement [s/veh]	0,00	19.79	0.00	0.00	0.00	0.00
Movement LOS		С	А	А		А
95th-Percentile Queue Length [veh/ln]	0.00	0.68	0.00	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	16.90	0.00	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	19.79		0.00		0.00	
Approach LOS		С	А		A	
d_I, Intersection Delay [s/veh]	0.56					
Intersection LOS	С					

Scenario 2: 2 PM Ex

Intersection Level Of Service Report Intersection 2: Driveway 2 at Green River Road

Control Type: Analysis Method: Two-way stop HCM 6th Edition Delay (sec / veh): Level Of Service: 26.1

Analysis Period:

15 minutes

Volume to Capacity (v/c):

D 0.205

Intersection Setup

Name	Driveway 2		Green River Road		Green River Road	
Approach	Northbound		Eastbound		Westbound	
Lane Configuration	r		IIIr		וור	
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	14,60	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	160.00	100,00	100 00	100.00
Speed [mph]	30.00		45.00		45.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		N	0	No	

Volumes

Name	Drive	way 2	Green River Road		Green River Road	
Base Volume Input [veh/h]	Ü	32	1443	13	42	383
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	g	0	0	0	0	0
Pass-by Trips [veh/h]	(i	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	a	0	0	0	0	0
Other Volume [veh/h]	Ģ.	0	0	0	0	0
Total Hourly Volume [veh/h]	Ü	32	1443	13	42	383
Peak Hour Factor	5 9500	0.9500	0.9500	0.9500	0.9500	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	()	8	380	3	11	101
Total Analysis Volume [veh/h]	()	34	1519	14	44	403
Pedestrian Volume [ped/h]	()	0			1

Version 7.00-01

Scenario 2: 2 PM Ex

Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane	II.		
Storage Area [veh]	g .	Q .	Ü
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	0	0	()

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0,00	0.11	0.02	0.60	0.21	0.00
d_M, Delay for Movement [s/veh]	0.00	18.56	0.00	0.00	26.05	0.00
Movement LOS		С	А	А	D	Α
95th-Percentile Queue Length [veh/ln]	0.00	0.38	0.00	0.00	0.75	0.00
95th-Percentile Queue Length [ft/ln]	0.00	9.50	0.00	0.00	18.69	0.00
d_A, Approach Delay [s/veh]	18.56		0.00		2.56	
Approach LOS	(А		A	
d_I, Intersection Delay [s/veh]	0.88					
Intersection LOS	D					

Intersection Level Of Service Report Intersection 3: Dominguez Ranch Road at Driveway 3

Control Type: Analysis Method: Analysis Period:

Two-way stop HCM 6th Edition Delay (sec / veh): Level Of Service:

10.9 В

15 minutes

Volume to Capacity (v/c):

0.011

Intersection Setup

Name	Dominguez Ranch Road		Dominguez Ranch Road		Driveway 3	
Approach	Northbound		Southbound		Westbound	
Lane Configuration	H		ηİ		7	
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100 60	100 00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		No	

Volumes

Name	Dominguez	Ranch Road	Dominguez	Ranch Road	Driveway 3	
Base Volume Input [veh/h]	51	10	79	75	7	82
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	51	10	79	75	7	82
Peak Hour Factor	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	13	3	21	20	2	22
Total Analysis Volume [veh/h]	54	11	83	79	7	86
Pedestrian Volume [ped/h]	(0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	Q.	Ü
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	ů	0	Q.

V/C, Movement V/C Ratio		0.00	0.05	0.00	0.01	0.09
d_M, Delay for Movement [s/veh]	0.00	0.00	7.48	0.00	10.93	8.97
Movement LOS	А	Α	А	А	В	А
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.17	0.00	0.32	0.32
95th-Percentile Queue Length [ft/ln]	0.00	0.00	4.28	0.00	7.96	7.96
d_A, Approach Delay [s/veh]	0.	00	3.	83	9.	12
Approach LOS	F	4	A		A	
d_I, Intersection Delay [s/veh]	(2)		4.59			
Intersection LOS		В				

APPENDIX B-II

PROJECT BUILDOUT TRAFFIC CONDITIONS

Intersection Level Of Service Report Intersection 1: Driveway 1 at Green River Road

Control Type: Analysis Method:

Two-way stop

Delay (sec / veh): HCM 6th Edition

10.1

Analysis Period:

15 minutes

Level Of Service: Volume to Capacity (v/c):

В 0.051

Intersection Setup

Name	Driveway 1		Green R	Green River Road		Green River Road		
Approach	Northbound		Eastbound		Westbound			
Lane Configuration	T*		r III-		III		111	
Turning Movement	Left	Right	Thru	Right	Left	Thru		
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00		
No. of Lanes in Pocket	0	0	0	0	D.	0		
Pocket Length [ft]	160.00	100.00	100.00	100.00	100 00	700-00		
Speed [mph]	30.	00	45.00		45.00			
Grade [%]	0.00		0.00		0.00			
Crosswalk	Ye	es	N	lo	No			

Name	Drive	way 1	Green River Road		Green River Road	
Base Volume Input [veh/h]	()	36	254	28	0	1210
Base Volume Adjustment Factor	1,0000	1.0000	1.0000	1.0000	1,0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	Ú	0	0	0	.0	0
Site-Generated Trips [veh/h]	O	0	0	0	0	0
Diverted Trips [veh/h]	ŋ	0	0	0	(j	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	Ó	0
Total Hourly Volume [veh/h]	ō	36	254	28	G	1210
Peak Hour Factor	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	A)	9	67	7	0	318
Total Analysis Volume [veh/h]	()	38	267	29	0	1274
Pedestrian Volume [ped/h]	())	(

Scenario 3: 3 AM 2020+P

Version 7.00-01 Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane			The state of the s
Storage Area [veh]	ø	Q.	Ō
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	0	(a)	CF.

V/C, Movement V/C Ratio		0.05	0.00	0.00	0.00	0.01
d_M, Delay for Movement [s/veh]	0.00	10.12	0.00	0.00	0.60	0.00
Movement LOS	201111	В	Α	А		А
95th-Percentile Queue Length [veh/ln]	0.00	0.16	0.00	0.00	0.00	0.00
95th-Percentile Queue Length [ft/In]	0.00	4.04	0.00	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	10	.12	0.	00	0.00	
Approach LOS	E	3	Α		A	
d_I, Intersection Delay [s/veh]	VI.	0.24				
Intersection LOS	В					

Scenario 3: 3 AM 2020+P

Intersection Level Of Service Report Intersection 2: Driveway 2 at Green River Road

Control Type:

Two-way stop

Delay (sec / veh):

10.2

Analysis Method: Analysis Period:

HCM 6th Edition 15 minutes

Level Of Service: Volume to Capacity (v/c):

В 0.165

Intersection Setup

Name	Driveway 2		Green River Road		Green River Road			
Approach	North	bound	Eastbound		Westbound			
Lane Configuration	Г		Шг		IIIr		ווור	
Turning Movement	Left	Right	Thru	Right	Left	Thru		
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00		
No. of Lanes in Pocket	0	0	0	0	0	0		
Pocket Length [ft]	100.00	100.00	100.00	100.00	100 00	100.00		
Speed [mph]	30	.00	45.00		45.00			
Grade [%]	0.00		0.00		0.00			
Crosswalk	Ye	es	N	0	No			

Name	Drive	way 2	Green River Road		Green River Road	
Base Volume Input [veh/h]	0	40	261	28	131	1210
Base Volume Adjustment Factor	1 0400	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1,00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	(J	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	r)	0	0	0	0	0
Pass-by Trips [veh/h]	CI .	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	9	40	261	28	131	1210
Peak Hour Factor	0.9600	0.9500	0.9500	0.9500	0.9500	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	Û	11	69	7	34	318
Total Analysis Volume [veh/h]	.0	42	275	29	138	1274
Pedestrian Volume [ped/h]	()			()

Scenario 3: 3 AM 2020+P

Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane			
Storage Area [veh]	0	Q	Q
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	Q	0	G.

V/C, Movement V/C Ratio	0.00	0.06	0.00	0.00	0.17	0.01
d_M, Delay for Movement [s/veh]	0.00	10.06	0.00	0.00	10.15	0.00
Movement LOS		В	А	Α	В	А
95th-Percentile Queue Length [veh/ln]	filuo	0.18	0.00	0.00	0.59	0.00
95th-Percentile Queue Length [ft/ln]	0.00	4.42	0.00	0.00	14.73	0.00
d_A, Approach Delay [s/veh]	10	.06	0.	00	0.	99
Approach LOS	I	3	A		A	
d_I, Intersection Delay [s/veh]		1.04				
Intersection LOS	В					

Version 7.00-01

Scenario 3: 3 AM 2020+P

Intersection Level Of Service Report Intersection 3: Dominguez Ranch Road at Driveway 3

Control Type: Analysis Method: Analysis Period: Two-way stop HCM 6th Edition 15 minutes Delay (sec / veh): Level Of Service: 11.9 B 0.040

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Volume to Capacity (v/c):

Intersection Setup

Name	Dominguez Ranch Road		Dominguez Ranch Road		Driveway 3	
Approach	Northbound		Southbound		Westbound	
Lane Configuration	ŀ	F 71		7 7		→
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100 00
Speed [mph]	30.	00	30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	N	No		lo	No	

Name	Dominguez	Ranch Road	Dominguez Ranch Road		Driveway 3	
Base Volume Input [veh/h]	127	25	14	10	30	283
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	127	25	14	10	30	283
Peak Hour Factor	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	33	7	4	3	8	74
Total Analysis Volume [veh/h]	134	26	15	11	32	298
Pedestrian Volume [ped/h]					()

Green River Promenade, Corona

Scenario 3: 3 AM 2020+P

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	9	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

V/C, Movement V/C Ratio	0.00	0.00	0.01	0.00	0.04	0.33
d_M, Delay for Movement [s/veh]	0.00	0.00	7.56	0.00	11.92	11.38
Movement LOS	Α	Α	Α	А	В	В
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.03	0.00	1.73	1.73
95th-Percentile Queue Length [ft/In]	0.00	0.00	0.80	0.00	43.26	43.26
d_A, Approach Delay [s/veh]	0.	00	4.36		11.43	
Approach LOS	F	4	A		В	
d_I, Intersection Delay [s/veh]	7.53					
Intersection LOS	В					

Intersection Level Of Service Report Intersection 1: Driveway 1 at Green River Road

Control Type: Analysis Method: Analysis Period:

Two-way stop HCM 6th Edition 15 minutes

Delay (sec / veh): Level Of Service: 22.6

Volume to Capacity (v/c):

C 0.268

Intersection Setup

Name	Driveway 1 Green River Road Northbound Eastbound				Green River Road Westbound	
Approach						
Lane Configuration			111			
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	14,44	12.00	12.00	12.00	12,00	12.00
No. of Lanes in Pocket	0	0	0	0	O O	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100 00	100 01
Speed [mph]	30	.00	45.00		45.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		No		No	

Name	Drive	eway 1	Green R	iver Road	Green R	iver Road
Base Volume Input [veh/h]	0	71	1488	42	0	400
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1,0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	Ú	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	ō.	0
Pass-by Trips [veh/h]	D	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	Ü	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	ű.	71	1488	42	G	400
Peak Hour Factor	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	Q	19	392	11	5	105
Total Analysis Volume [veh/h]		75	1566	44	0	421
Pedestrian Volume [ped/h]	0				(9

Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane			
Storage Area [veh]	0	0	Ö
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	0	0	C)

Intersection LOS	C						
d_I, Intersection Delay [s/veh]			0.	80			
Approach LOS		0	A		,	A	
d_A, Approach Delay [s/veh]	22	.55	0.00		0.00		
95th-Percentile Queue Length [ft/In]	0.00	26.43	0.00	0.00	0.00	0.00	
95th-Percentile Queue Length [veh/ln]	0.00	1.06	0.00	0.00	0.00	0.00	
Movement LOS		С	Α	A		А	
d_M, Delay for Movement [s/veh]	0.00	22.55	0.00	0.00	0.00	0.00	
V/C, Movement V/C Ratio	5 00	0.27	0.02	0,00	0.00	0.00	

Counts Unlimited PO Box 1178 Corona, CA 92878 (951) 268-6268

City of Corona N/S: Driveway 1 E/W: Green River Road Weather: Clear

File Name : 01_COR_DW1_Green River Road AM Site Code : 05718914 Start Date : 12/4/2018 Page No : 1

			G	Froups Printe	ed- Total Vo	olume				
	Gree	en River R	oad		Driveway 1		Gre	en River R	oad	
	V	Vestbound		1	Northbound	1		Eastbound		
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	0	274	274	0	4	4	78	0	78	356
07:15 AM	0	208	208	0	1	1	74	0	74	283
07:30 AM	0	252	252	0	4	4	76	1	77	333
07:45 AM	0	217	217	0	3	3	54	3	57	277
Total	0	951	951	0	12	12	282	4	286	1249
08:00 AM	0	283	283	0	1	1	44	3	47	331
08:15 AM	0	267	267	0	3	3	57	0	57	327
08:30 AM	0	293	293	0	4	4	72	6	78	375
08:45 AM	0	320	320	0	6	6	55	1	56	382
Total	0	1163	1163	0	14	14	228	10	238	1415
Grand Total	0	2114	2114	0	26	26	510	14	524	2664
Apprch %	0	100		0	100		97.3	2.7		
Total %	0	79.4	79.4	0	1	1	19.1	0.5	19.7	
(17)			1000000			20140	MINE PARTY	117.00.00		

		en River Ro Vestbound	ad		Driveway 1 Northbound	32		en River R Eastbound		
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Tota
Peak Hour Analysis From	n 07:00 AM	to 08:45 Al	M - Peak 1 of 1	The state of the s						
Peak Hour for Entire Inte	rsection Be	gins at 08:0	00 AM							
08:00 AM	0	283	283	0	1	1	44	3	47	331
08:15 AM	0	267	267	0	3	3	57	0	57	327
08:30 AM	0	293	293	0	4	4	72	6	78	375
08:45 AM	0	320	320	0	6	6	55	1	56	382
Total Volume	0	1163	1163	0	14	14	228	10	238	1415
% App. Total	0	100.		0	100		95.8	4.2		
PHF	.000	.909	.909	.000	.583	.583	.792	.417	.763	926

Intersection Level Of Service Report Intersection 2: Driveway 2 at Green River Road

Control Type: Analysis Method: Analysis Period:

Two-way stop HCM 6th Edition 15 minutes

Delay (sec / veh): Level Of Service: 37.1 Ε

Volume to Capacity (v/c):

0.431

Intersection Setup

Name	Driveway 2 Northbound		Green R	Green River Road		Green River Road	
Approach			Eastbound		Westbound		
Lane Configuration	ľ	r 111r		71	1111		
Turning Movement	Left	Right	Thru	Right	Left	Thru	
Lane Width [ft]	12,00	12.00	12.00	12.00	12.00	12.00	
No. of Lanes in Pocket	0	0	0	0	0	0	
Pocket Length [ft]	160.00	100.00	100.00	100.00	100 60	100 00	
Speed [mph]	30.	00	45.00		45.00		
Grade [%]	0.00		0.00		0.00		
Crosswalk	Yes		No		No		

Name	Drive	eway 2	Green River Road		Green River Road	
Base Volume Input [veh/h]	Ū	49	1519	27	79	398
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2,00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	(i	0	0	0	0	0
Site-Generated Trips [veh/h]	q	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	Û	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	Ú	0	0	0	0	0
Other Volume [veh/h]	Û	0	0	0	0	0
Total Hourly Volume [veh/h]	0	49	1519	27	79	398
Peak Hour Factor	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	13	400	7	21	105
Total Analysis Volume [veh/h]	(J	52	1599	28	83	419
Pedestrian Volume [ped/h]	()	1			3

Version 7.00-01

Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane			700 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Storage Area [veh]	D	0	Ū
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	0	0	0

V/C, Movement V/C Ratio		0.18	0.02	0.00	0.43	0.00
d_M, Delay for Movement [s/veh]	0.00	20.65	0.00	0.00	37.12	0.00
Movement LOS	5.879.75	С	Α	А	E	А
95th-Percentile Queue Length [veh/ln]	0.00	0.66	0.00	0.00	1.98	0.00
95th-Percentile Queue Length [ft/In]	סט ט	16.60	0.00	0.00	49.59	0.00
d_A, Approach Delay [s/veh]	20	.65	0.00		6.14	
Approach LOS		0	Α		A	
d_I, Intersection Delay [s/veh]			1.	91		
Intersection LOS				= -		

Intersection Level Of Service Report Intersection 3: Dominguez Ranch Road at Driveway 3

Control Type: Analysis Method: Two-way stop HCM 6th Edition

Delay (sec / veh): Level Of Service: 11.2 B 0.023

Analysis Period:

15 minutes

Volume to Capacity (v/c):

Intersection Setup

Name	Dominguez Ranch Road Northbound		Dominguez Ranch Road Southbound		Driveway 3 Westbound	
Approach						
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.53	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		No	

Name	Dominguez Ranch Road		Dominguez Ranch Road		Driveway 3	
Base Volume Input [veh/h]	53	18	79	78	14	109
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	53	18	79	78	14	109
Peak Hour Factor	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	14	5	21	21	4	29
Total Analysis Volume [veh/h]	56	19	83	82	15	115
Pedestrian Volume [ped/h]	0		0		0	

Green River Promenade, Corona

Scenario 4: 4 PM 2020+P

Version 7.00-01

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	Ō	0	D.
Two-Stage Gap Acceptance			No
umber of Storage Spaces in Median	0	Û	n

Intersection LOS	В							
d_I, Intersection Delay [s/veh]	5.00							
Approach LOS	Α		A		A			
d_A, Approach Delay [s/veh]	0.00		3.77		9.45			
95th-Percentile Queue Length [ft/ln]	0.00	0.00	4.31	0.00	12.00	12.00		
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.17	0.00	0.48	0.48		
Movement LOS	Α	Α	Α	А	В	А		
d_M, Delay for Movement [s/veh]	0.00	(0,00	7.50	0.00	11.22	9.22		
V/C, Movement V/C Ratio	0.00	0.00	0.05	0.00	0.02	0.12		