

July 8, 2019

Mr. Daniel Porras, Director
City of Desert Hot Springs – Public Works Department
65950 Pierson Blvd
Desert Hot Springs, CA 92240

RE: “FAIR SHARE” ANALYSIS FOR THE TRAFFIC SIGNAL AT PALM DRIVE / PARK LANE, DESERT HOT SPRINGS, CA

Dear Mr. Porras:

As requested KD Anderson & Associates has prepared this “fair share” analysis for a traffic signal at the Palm Drive / Park Lane intersection in Desert Hot Springs. This work is intended to identify the share of a traffic signal cost that should be borne by the adjoining Grocery Outlet Store and the share that would be the responsibility of other future growth. The approach taken to prepare this analysis makes use of traffic volume forecasts contained in the recent traffic study for the Grocery Outlet Store¹ and follows the methods contained in Caltrans’ traffic study guidelines.

Traffic Volume Forecasts - Assessment. Our assessment makes use of existing traffic counts and long-term cumulative traffic volume projections for the Palm Drive / Park Lane intersection. As noted in Table 1, the current p.m. peak hour traffic volume totals 2,583 vehicles (count attached). Under long term conditions with the traffic signal and left turn limitations at the Grocery Outlet Store’s adjoining driveway the total p.m. peak hour volume is estimated to total 3,343 vehicles (assignment worksheet attached). The total net new traffic in the future is the difference, or 760 vehicles. Of that net new p.m. peak hour traffic the trips associated with the Grocery Outlet Store are 114 vehicles (assignment worksheet), or 15% of the net new total. This represents the Grocery Outlet Store’s “fair share” under the Caltrans methodology.

TABLE 1 PALM DRIVE / PARK LANE FAIR SHARE CALCULATION				
Existing Volume (vph)	Grocery Outlet Store Alone (vph)	Total Long-Term Cumulative Volume (vph)	Net New Traffic (vph)	Grocery Outlet Store Fair Share
A	B	C	C-A	B / (C-A)
2,583	114	3,343	760	15%

¹ Traffic Impact Analysis for Grocery Outlet Store, KDAnderson & Associates, January 29, 2019

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Thank you for your attention to this information. Please feel free to contact me if you need additional information.

Sincerely,

KD Anderson & Associates, Inc.

A handwritten signature in black ink, appearing to read 'K. Anderson', with a long horizontal flourish extending to the right.

Kenneth D. Anderson, P.E.
President

Attachments: traffic count, trip assignment worksheet

DHS Palm Drive – Park Lane Fair Share.ltr

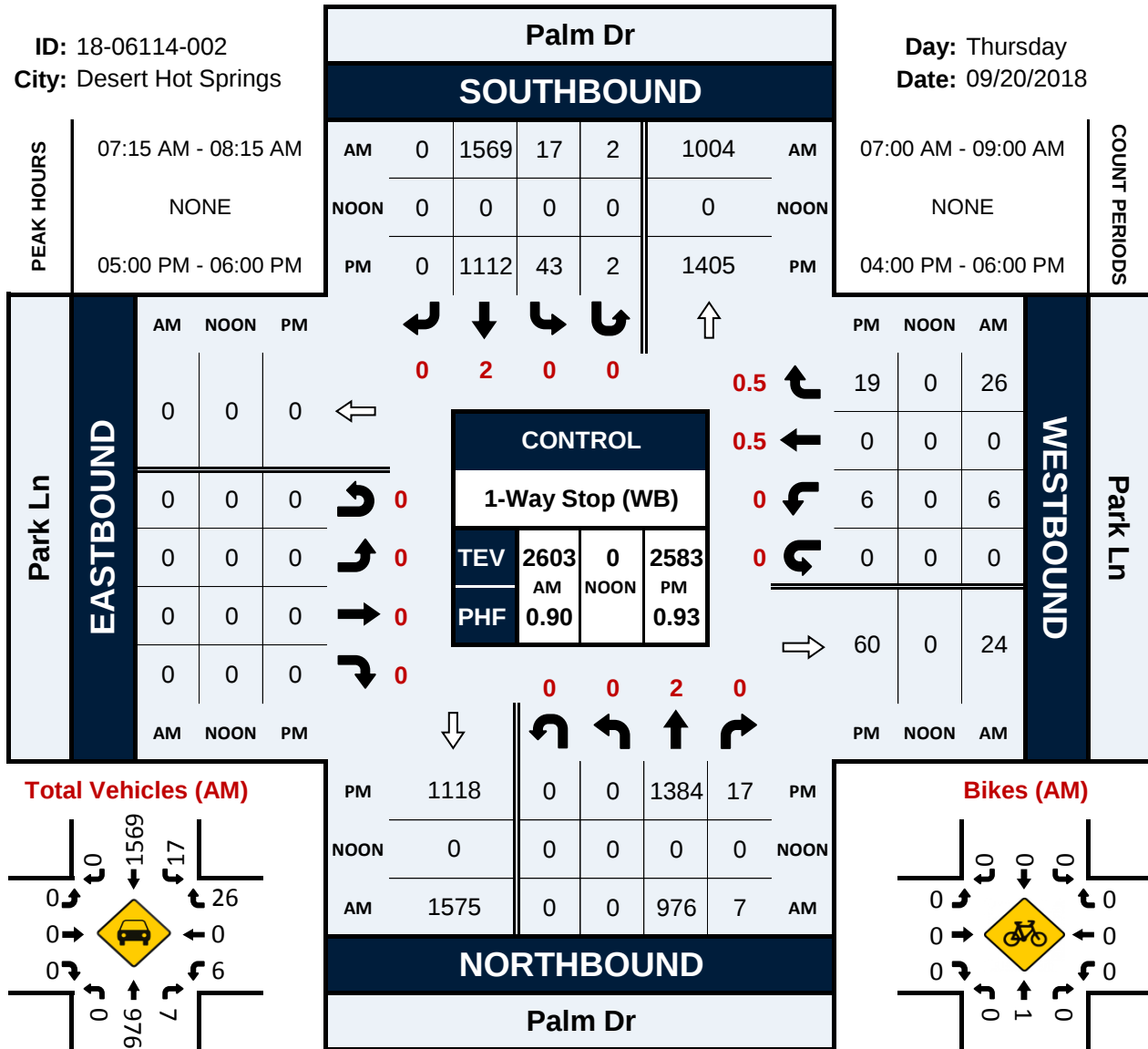
KDA

Palm Dr & Park Ln

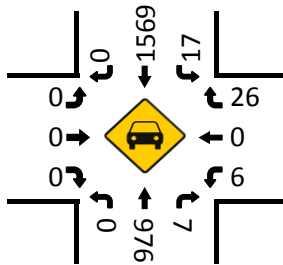
Peak Hour Turning Movement Count

ID: 18-06114-002
City: Desert Hot Springs

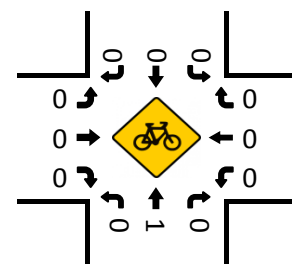
Day: Thursday
Date: 09/20/2018



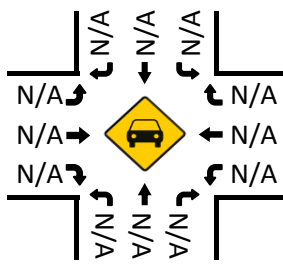
Total Vehicles (AM)



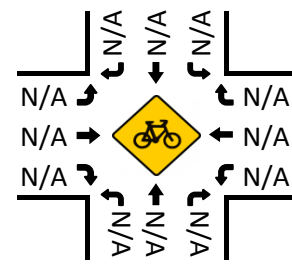
Bikes (AM)



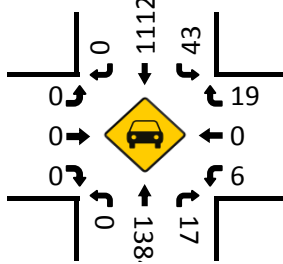
Total Vehicles (Noon)



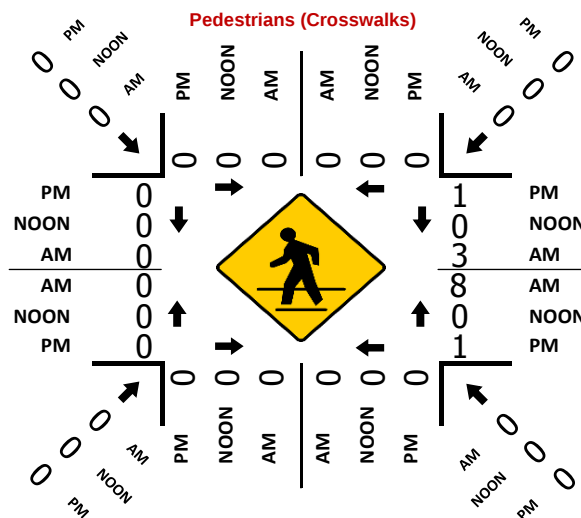
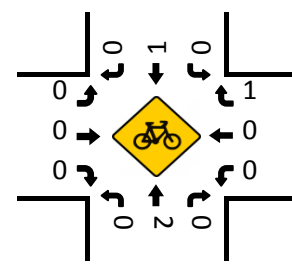
Bikes (NOON)



Total Vehicles (PM)



Bikes (PM)



National Data & Surveying Services

Intersection Turning Movement Count

Location: Palm Dr & Park Ln
City: Desert Hot Springs
Control: 1-Way Stop (WB)

Project ID: 18-06114-002
Date: 9/20/2018

Total																	
NS/EW Streets:	Palm Dr				Palm Dr				Park Ln				Park Ln				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				TOTAL
	0 NL	2 NT	0 NR	0 NU	0 SL	2 ST	0 SR	0 SU	0 EL	0 ET	0 ER	0 EU	0 WL	0.5 WT	0.5 WR	0 WU	
7:00 AM	0	135	3	0	1	313	0	0	0	0	0	0	1	0	8	0	461
7:15 AM	0	272	1	0	5	431	0	1	0	0	0	0	4	0	8	0	722
7:30 AM	0	244	2	0	5	418	0	0	0	0	0	0	1	0	5	0	675
7:45 AM	0	234	2	0	4	339	0	1	0	0	0	0	1	0	10	0	591
8:00 AM	0	226	2	0	3	381	0	0	0	0	0	0	0	0	3	0	615
8:15 AM	0	235	0	0	3	338	0	0	0	0	0	0	1	0	2	0	579
8:30 AM	0	240	5	0	3	346	0	0	0	0	0	0	4	0	4	0	602
8:45 AM	0	193	1	0	5	284	0	1	0	0	0	0	3	0	5	0	492
TOTAL VOLUMES : APPROACH %'s :	NL 0	NT 1779	NR 16	NU 0	SL 29	ST 2850	SR 0	SU 3	EL 0	ET 0	ER 0	EU 0	WL 15	WT 0	WR 45	WU 0	TOTAL 4737
	0.00%	99.11%	0.89%	0.00%	1.01%	98.89%	0.00%	0.10%					25.00%	0.00%	75.00%	0.00%	
PEAK HR :	07:15 AM - 08:15 AM																TOTAL
PEAK HR VOL :	0	976	7	0	17	1569	0	2	0	0	0	0	6	0	26	0	2603
PEAK HR FACTOR :	0.000	0.897	0.875	0.000	0.850	0.910	0.000	0.500	0.000	0.000	0.000	0.000	0.375	0.000	0.650	0.000	0.901
	0.900				0.908								0.667				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				TOTAL
	0 NL	2 NT	0 NR	0 NU	0 SL	2 ST	0 SR	0 SU	0 EL	0 ET	0 ER	0 EU	0 WL	0.5 WT	0.5 WR	0 WU	
4:00 PM	0	331	2	0	3	281	0	0	0	0	0	0	1	0	0	0	618
4:15 PM	0	339	2	0	2	282	0	2	0	0	0	0	2	0	0	0	629
4:30 PM	0	324	0	0	3	250	0	0	0	0	0	0	2	0	3	0	582
4:45 PM	0	344	0	0	2	222	0	2	0	0	0	0	0	0	1	0	571
5:00 PM	0	324	0	0	3	279	0	1	0	0	0	0	0	0	0	0	607
5:15 PM	0	360	6	0	3	263	0	1	0	0	0	0	2	0	2	0	637
5:30 PM	0	389	5	0	12	281	0	0	0	0	0	0	1	0	4	0	692
5:45 PM	0	311	6	0	25	289	0	0	0	0	0	0	3	0	13	0	647
TOTAL VOLUMES : APPROACH %'s :	NL 0	NT 2722	NR 21	NU 0	SL 53	ST 2147	SR 0	SU 6	EL 0	ET 0	ER 0	EU 0	WL 11	WT 0	WR 23	WU 0	TOTAL 4983
	0.00%	99.23%	0.77%	0.00%	2.40%	97.33%	0.00%	0.27%					32.35%	0.00%	67.65%	0.00%	
PEAK HR :	05:00 PM - 06:00 PM																TOTAL
PEAK HR VOL :	0	1384	17	0	43	1112	0	2	0	0	0	0	6	0	19	0	2583
PEAK HR FACTOR :	0.000	0.889	0.708	0.000	0.430	0.962	0.000	0.500	0.000	0.000	0.000	0.000	0.500	0.000	0.365	0.000	0.933
	0.889				0.921								0.391				

CUMULATIVE PLUS DOLLAR GENERAL STORE TRAFFIC
SECONDARY DRIVEWAY LIMITED TO RIGHT TURNS ONLY
0951-08

Scenario Report

Scenario:	CUM PM PLUS PROJECT
Command:	Default Command
Volume:	CUM PM
Geometry:	Default Geometry
Impact Fee:	Default Impact Fee
Trip Generation:	PM PEAK
Trip Distribution:	CURRENT CUMULATIVE
Paths:	median
Routes:	Default Route
Configuration:	Default Configuration

CUMULATIVE PLUS DOLLAR GENERAL STORE TRAFFIC
SECONDARY DRIVEWAY LIMITED TO RIGHT TURNS ONLY
0951-08

Trip Generation Report

Forecast for PM PEAK

Zone #	Subzone	Amount	Units	Rate In	Rate Out	Trips In	Trips Out	Total Trips	% Of Total
1		1.00	GROCERY OUTLET	65.00	65.00	65	65	130	100.0
	Zone 1 Subtotal					65	65	130	100.0
TOTAL						65	65	130	100.0

CUMULATIVE PLUS DOLLAR GENERAL STORE TRAFFIC
SECONDARY DRIVEWAY LIMITED TO RIGHT TURNS ONLY
0951-08

Trip Distribution Report

Percent Of Trips CUMULATIVE

Zone	To Gates					
	1	3	4	5	6	8
1	37.5	2.5	12.5	22.5	7.5	17.5

CUMULATIVE PLUS DOLLAR GENERAL STORE TRAFFIC
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0951-08

Turning Movement Report
PM PEAK

Volume Type	Northbound			Southbound			Eastbound			Westbound			Total Volume
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
#1 Plam Drive / Two Bunch Palms													
Base	250	1153	179	132	807	58	130	205	278	245	137	123	3697
Added	8	24	15	0	24	0	0	0	8	15	0	0	94
Total	258	1177	194	132	831	58	130	205	286	260	137	123	3791
#2 Palm Drive / north access													
Base	0	1780	0	0	1349	0	0	0	0	0	0	0	3129
Added	0	35	0	0	16	31	0	0	18	0	0	0	100
PassBy	0	0	0	0	-5	5	0	0	5	0	0	0	5
Total	0	1815	0	0	1360	36	0	0	23	0	0	0	3234
#3 Palm Drive / Park Drive													
Base	0	1680	55	130	1219	0	0	0	0	45	0	100	3229
Added	16	0	0	12	6	16	35	1	11	0	2	0	99
PassBy	10	-10	0	0	-5	5	10	0	5	0	0	0	15
Total	26	1670	55	142	1220	21	45	1	16	45	2	100	3343
#4 Palm Drive /													
Base	22	1558	57	138	1164	59	49	7	14	40	9	157	3274
Added	0	11	0	5	11	0	0	0	0	0	0	5	32
Total	22	1569	57	143	1175	59	49	7	14	40	9	162	3306
#24 u turn													
Base	0	0	0	0	0	0	0	0	0	0	0	0	0
Added	12	0	0	0	0	0	0	0	0	0	0	0	12
Total	12	0	0	0	0	0	0	0	0	0	0	0	12

> 114
TOTAL