TOWN OF APPLE VALLEY, CALIFORNIA

AGENDA MATTER

Sul	biect	Item:

FOUR-WAY STOP AT THE INTERSECTION OF DALE EVANS PARKWAY AND CORWIN ROAD

Summary Statement:

On November 19, 2008, the Traffic Safety Committee met and evaluated the need for four-way STOP controls at the intersection of Dale Evans Parkway and Corwin Road. The Committee concurred with the staff recommendation to establish the intersection as a four-way STOP. Attached is the staff report submitted to the Traffic Safety Committee for Council information.

Recommended Action:

Adopt Resolution 2008-64, A Resolution of the Town Council of the Town of Apple Valley establishing the intersection of Dale Evans Parkway and Corwin Road as a four-way STOP intersection.

Proposed by:	Engineering Division		Item Number				
T. M. Approval:		Budgeted Item	⊠ Yes	□ No □ N/A			

ITEM #2

To: Traffic Committee Members

From: Richard Pedersen, Deputy Town Engineer

Date: November 19, 2008

Subject: Four-way STOP sign installation at the intersection of Dale Evans Parkway and

Corwin Road

Staff received a request to investigate the intersection of Dale Evans Parkway and Corwin Road to determine if a four-way stop is warranted. Currently there are STOP signs on the north and south legs of the intersection on Dale Evans Parkway.

Staff performed a traffic engineering investigation which included an evaluation of past records of vehicle conflict, traffic volumes, and a field review of the intersection. Four-way STOP controls may be warranted if 1) the total volume of the major approach legs of the intersection average 210 vehicles per hour for the peak eight hours and 2) that for the same eight hour period the minor approach legs average a total of 140 vehicles per hour. Currently the average is 167 vehicles per hour for the major legs and 35 vehicles per hour for the minor legs. While this volume is clearly less than the minimum normally required for a four-way stop warrant, it does indicate that significantly unbalanced traffic levels exist. The counts reveal that the traffic control currently in place at this intersection requires that the major leg stop, in conflict with normal two-way stop guidelines which require that the low volume approach be stopped. This may cause driver uncertainty if a motorist assumes the other approaches are required to stop.

State warrants also indicate that if 5 accidents occur in a 12 month period that may be susceptible to correction by placing additional stop signs, a four way stop may be justified. Between January 2005 and August 2008 there have been four (4) traffic collisions at this intersection, and four (4) collisions occurred where additional stop signs may be a correction measure.

Staff investigated for other contributing factors including surrounding geography, and intersection layout for clear sight views. Dale Evans Parkway has 2 lanes of traffic in each direction with a speed limit of 55 mph. Corwin Road has 2 lanes of traffic in each direction with a speed limit of 55 mph.

Recommendation

Staff recommends that four-way STOP controls be installed at the intersection of Dale Evans Parkway and Corwin Road.

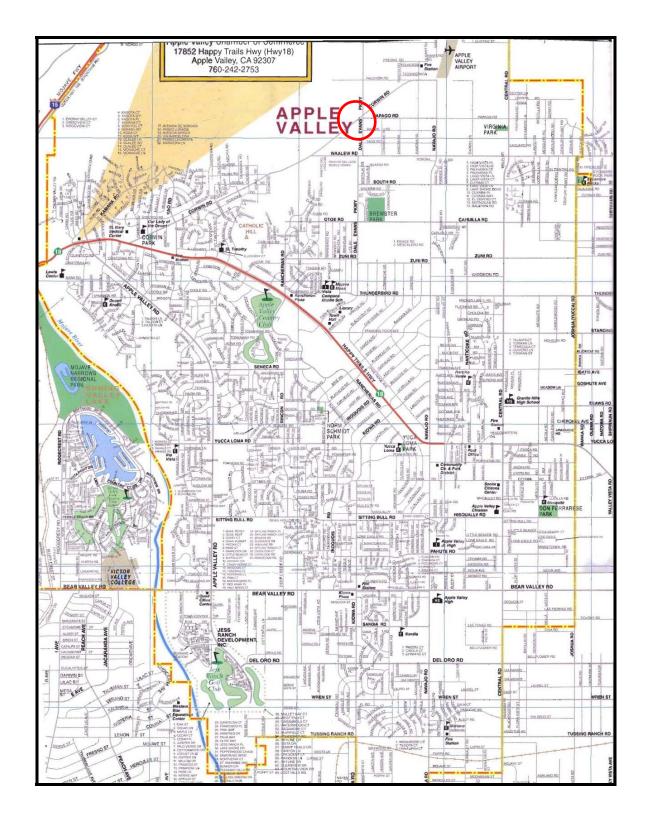
Fiscal Impact

Installation of 2 stop signs

\$150 each

Exhibits

Location Map, Traffic Volume Analysis, Traffic Collision History Report, Traffic Collision Diagram



LOCATION MAP
Dale Evans Parkway and Corwin Road

TOWN OF APPLE VALLEY

Traffic Count Datasheet

Intersection of Dale Evans Parkway and Corwin Road Study Date: October 29, 2008 1:00 p.m. - October 30, 2008 1:00 p.m.

ne of Day		Location										
(Military Time)		Corwin Road W/B	Dale Evans Prkwy. N/B	Dale Evans Pkwy. S/B	Traffic Count on Major Legs 210 Required	Traffic Coun on Minor Leg 140 Required						
00:00 - 01:00	2	2	2	17	19	4						
01:00 - 02:00	0	0	2	6	8	0						
02:00 - 03:00	1	1	6	17	23	2						
03:00 - 04:00	3	0	9	35	44	3						
04:00 - 05:00	9	4	35	4	39	13						
05:00 - 06:00	44	3	117	12	129	47						
06:00 - 07:00	23	4	108	25	133	27						
07:00 - 08:00	24	5	108	47	155	29						
08:00 - 09:00	17	3	74	56	130	20						
09:00 - 10:00	23	12	70	46	116	35						
10:00 - 11:00	18	13	54	34	88	31						
11:00 - 12:00	15	17	49	50	99	32						
12:00 - 13:00	18	12	62	44	106	30						
13:00 - 14:00	14	11	51	33	84	25						
14:00 - 15:00	20	15	52	93	145	35						
15:00 - 16:00	21	14	48	111	159	35						
16:00 - 17:00	20	24	67	233	300	44						
17:00 - 18:00	12	26	39	146	185	38						
18:00 - 19:00	11	10	41	91	132	21						
19:00 - 20:00	6	6	27	51	78	12						
20:00 - 21:00	9	12	12	31	43	21						
21:00 - 22:00	8	2	12	31	43	10						
22:00 - 23:00	3	3	17	29	46	6						
23:00 - 24:00	3	3	8	20	28	6						
TOTALS	324	202	1,070	1,262	2,332	526						
	= 8 hour period		Average for h	ighest 8 hours =	167	35						
				Required =		140						

TRAFFIC VOLUME ANALYSIS

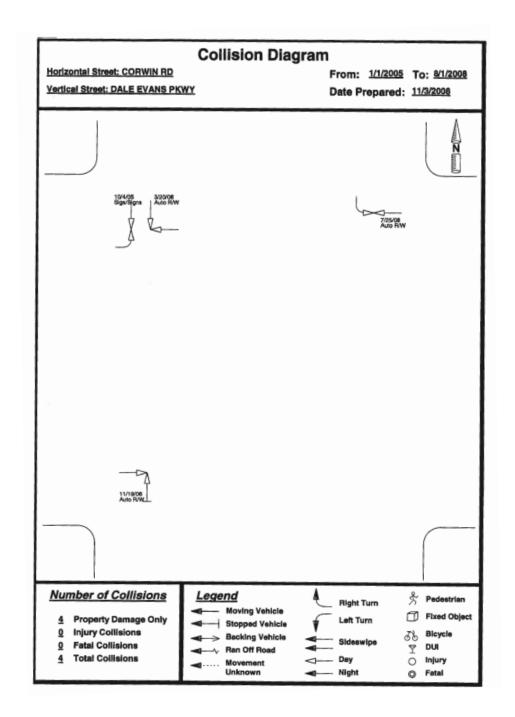
Town of Apple Valley Traffic Engineering Department

Traffic Collision History Report

Location: Dale Evans Pkwy / Corwin Rd Date Range Reported: 1/1/2005 - 8/1/2008 11/3/2008 Page 1

Report No.	Date	Time	Dist.	Dir.	Type of Collision	Motor Veh. Involved With	Direct. of Travel 1	Movement Prec. Coll. 1	Direct. of Travel 2	Movement Prec. Coll. 2	PCF	Inj.	Kil
180506527	10/4/05	10:58	0	In Int.	Broadside	Other Motor Vehicle	South	Proceeding Straight	East	Making Left Turn	Traffic Signals and Signs	0	0
180601723	3/20/06	08:45	0	in Int.	Broadside	Other Motor Vehicle	South	Proceeding Straight	West	Proceeding Straight	Auto R/W Violation	0	0
180607256	11/19/06	15:45	0	In Int.	Broadside	Other Motor Vehicle	North	Stopped In Road	East	Proceeding Straight	Auto R/W Violation	0	0
180804454	7/25/08	08:18	0	In Int.	Broadside	Other Motor Vehicle	South	Making Left Turn	West	Proceeding Straight	Auto R/W Violation	0	0

TRAFFIC COLLISION HISTORY REPORT



RESOLUTION NO. 2008-64

A RESOLUTION OF THE TOWN COUNCIL OF THE TOWN OF APPLE VALLEY ESTABLISHING THE INTERSECTION OF DALE EVANS PARKWAY AND CORWIN ROAD AS A FOUR-WAY STOP INTERSECTION.

WHEREAS, a traffic engineering investigation has determined that establishing the intersection of Dale Evans Parkway and Corwin Road as a four-way STOP intersection is warranted in accordance with Section 52.0111 of the San Bernardino County Code as adopted by the Town of Apple Valley.

NOW THEREFORE, THE TOWN COUNCIL OF THE TOWN OF APPLE VALLEY DOES RESOLVE AND ORDER AS FOLLOWS:

Section 1: Approves and establishes the intersection of Dale Evans Parkway and Corwin Road as a four-way STOP intersection.

Section 2: Authorizes and directs the Town Manager to cause additional STOP signs to be placed on Dale Evans Parkway and Corwin Road.

APPROVED and ADOPTED this the 9th day of December, 2008.

	MAYOR	
ATTESTED:		
TOWN CLERK		