



May 4, 2007

Mr. Jay Patel
Senior Engineer
City of Agoura Hills
3001 Ladyface Court
Agoura Hills, CA 91301

SUBJECT: Stop Warrant Analysis for the Intersection of Reyes Adobe Road at Lake

Lindero Drive

Dear Mr. Patel:

### REQUEST

The City of Agoura Hills has requested Willdan to prepare a multi-way stop sign warrant analysis for the intersection of Reyes Adobe Road at Lake Lindero Drive.

### CONDITIONS

Reyes Adobe Road is a north/south residential roadway that is 64-feet wide with two lanes of traffic in each direction south of the intersection and one lane of traffic in each direction north of the intersection, separated by a double yellow line. The posted speed limit on Reyes Adobe Road is 40 mph.

Lake Lindero Drive is an east/west residential roadway that is 40-feet wide with one lane of traffic in each direction with no centerline striping. Lake Lindero Drive is stopped controlled at its intersection with Reyes Adobe Road. The posted speed limit on Lake Lindero Drive is 25 mph.

#### DATA

Twenty-four hour approach counts (Exhibit B) were taken on Reyes Adobe Road at Lake Lindero Drive. Pedestrian counts were also collected during the peak hour periods of 7:00 to 9:00 AM and 1:30 to 3:30 PM.

A radar speed survey (Exhibit C) was conducted on Reyes Adobe Road at approximately 470' south of Lake Lindero Drive and the 85<sup>th</sup> percentile approach speed was determined to be 42 mph.

No accidents occurred at this location for the past 12 months.

City of Agoura Hills May 4, 2007 Page 2

### DISCUSSION

The installation of Stop signs is based on guidelines in the 2006 California Manual of Uniform Traffic Control Devices (California MUTCD). These guidelines, or warrants, are based on the most recent reported accident history, traffic volumes entering the intersection, delay and the number of pedestrians crossing the major street.

"Stop" control is intended to assign positive right-of-way at intersections. The control is usually established on the street with the least volume of traffic. Additional control, beyond the basic right-of-way assignment, is usually reserved for those locations where the volume of traffic exceeds 300 vehicles per hour for any eight hours of an average day and where both streets having about the same amount of traffic, lends credibility to the higher level of intersection control. Without credibility, voluntary compliance is poor and without voluntary compliance, traffic safety is severely compromised.

Exhibit A depicts the California MUTCD guidelines as applied to the intersection of Reyes Adobe Road at Lake Lindero Drive. The guidelines indicate the intersection of Reyes Adobe Road at Lake Lindero Drive does satisfy two of the warrants for the installation of Stop signs: 1) Need to control left turn conflicts; 2) Visibility obstruction after stopping on minor street approach. Field observations reinforce this determination when motorist driving westbound on Lake Lindero Drive have visibility obstructions of northbound traffic on Reyes Adobe Road due to a horizontal curve.

### RECOMMENDATION

The installation of stop signs on Reyes Adobe Road and Lake Lindero Drive is recommended at this time. California MUTCD guidelines indicate a multi-way stop condition is warranted due to visibility obstructions on northbound Reyes Adobe Road for motorist stopped at Lake Lindero Drive and to control left turn conflicts.

Should you have any questions regarding this study, please contact me at (562) 908-6225

Sincerely,

100

Vanessa Munoz, P.E., T.E.

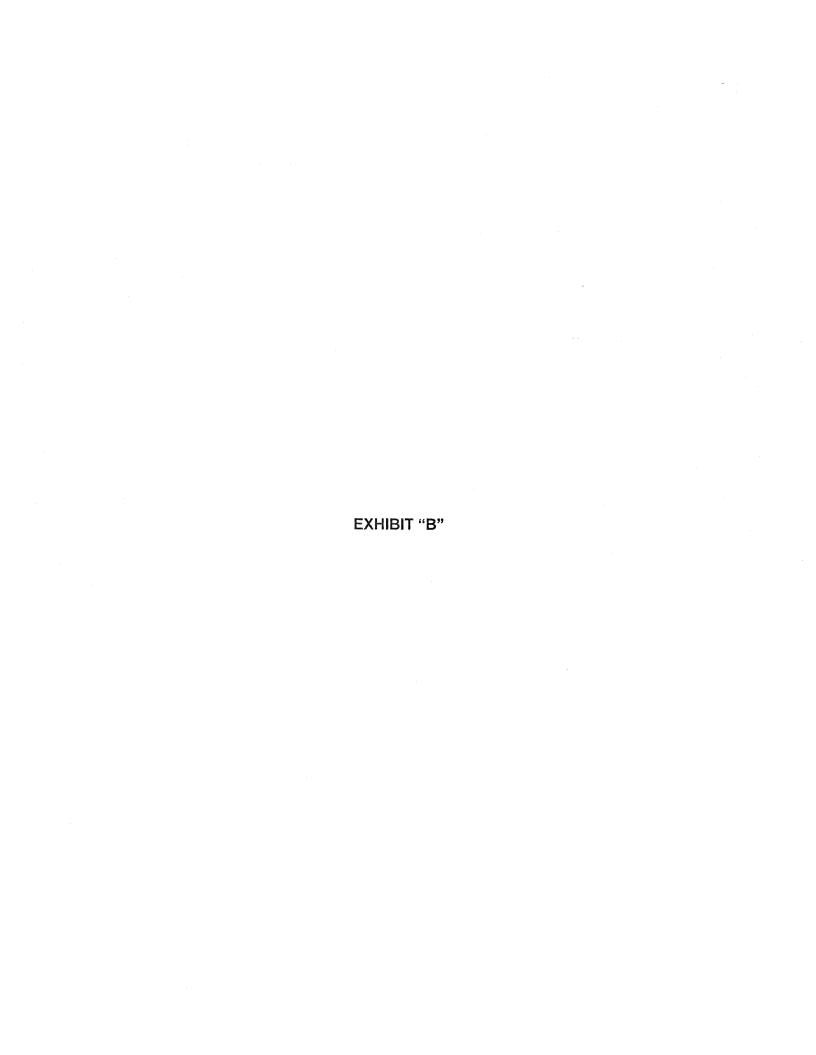
Supervising Engineer

VM:jmk (06-160) 16334/1007/L01



## **MULTI-WAY STOP SIGN WORKSHEET**

		Proper										
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Minor	200	140	160	87	52	58	109	126	177	63	62	62
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Location: Reyes Adobe Rd @ Lake Lindero Dr

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Project #: 07-2201-001

### PREPARED BY NATIONAL DATA & SURVEYING SERVICES

PROJECT#: 07-2202-001

LOCATION: Reyes Adobe Rd & Lake Lindero Dr

DATE: 05/2/07 CITY: Agura Hills

DAY: Wednesday

# PEDESTRIANS

	NORT	H-LEG	SOUT	H-LEG	EAST	Γ-L <b>EG</b>	WES	T-LEG
TIME	EB	WB	EB	WB	NB	SB	NB	SB
7:00 AM	0	0	0	0	1	0	0	0
7:15 AM	1	1	2	0	0	2	0	0
7:30 AM	0	0	0	0	0	1	0	1
7:45 AM	0	0	2	0	0	1	4	0
8:00 AM	1	0	0	0	3	0	0	0
8:15 AM	0	0	0	0	1	0	1	0
8:30 AM	0	1	0	0	2	0	1	1
8:45 AM	3	0	0	0	0	0	0	0
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#### **PEDESTRIANS**

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TIME	EB	WB	EB	WB	NB	SB	NB	SB
1:30 PM	0	0	0	1	1	2	0	2
1:45 PM	. 1	1	0	0	0	2	1	0
2:00 PM	0	0	0	0	1	0	1	0
2:15 PM	1	0	0	2	0	0	1	1
2:30 PM	0	0	1	1	0	1	3	0
2:45 PM	1	0.	0	0	0	0	0	0
3:00 PM	0	0	0	0	1	0	0	0
3:15 PM	0	0	0	2	1	2	1	1
3:30 PM	1	0	0	0	0	0	1	1
TOTALS	4	1	1	6	4	7	8	5

### PREPARED BY NATIONAL DATA & SURVEYING SERVICES

PROJECT#: 07-2202-001

LOCATION: Reyes Adobe Rd & Lake Lindero Dr

DATE: 05/2/07

CITY: Agura Hills

DAY: Wednesday

### **BIKES**

### TOTAL CONTROL OF THE PROPERTY OF THE PROPE	40000000000000000000000000000000000000		****	
TIME	NB	SB	EB	WB
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7:15 AM	0	0	0	1
7:30 AM	0	0	0	0
7:45 AM	0	0	0	0
8:00 AM	0	0	1	2
8:15 AM	0	0	0	0
8:30 AM	1	0	1	0
8:45 AM	0	0	0	0
TOTALS	1	0	2	3

### **BIKES**

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2:00 PM	1	0	0	0
2:15 PM	0	0	2	0
2:30 PM	1	0	0	0
2:45 PM	1	1	1	1
3:00 PM	0	0	2	0
3:15 PM	0	0	1	0
3:30 PM	0	0	0	0
TOTALS	3	1	6	1

EXHIBIT "C"

# CITY OF AGOURA HILLS SPOT SPEED SURVEY

Street	Reyes Adobe Rd	Date		5/1/2007	7	50th %	37	MPH	
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