LEWIS COUNTY PUBLIC WORKS
ENGINEERING AND TRAFFIC INVESTIGATION REPORT

REASON FOR INVESTIGATION: Initiated by Traffic Engineer based on citizen concerns for safe travelling speeds on the roadway.

COUNTY ROAD: Shorey Road - 40098

IN THE MATTER OF: Assessing the appropriate speed limit for travel on Shorey Road

FINDINGS :

a.) Current Speed Limit : [50] MPH

85% Prevailing Vehicle Speed : [45] MPH

Average Daily Traffic : [1755]

Truck percentage : [9%]

b.) Physical Features: Shorey Road is a through road with a 50 mph speed limit section from M.P. 1.582 to the termination of the road at Hwy 603 (M.P. 2.854). This section of the roadway is 24' wide with varying shoulders and has various grade changes with both vertical and horizontal curves. While these curves do meet AASHTO standards for sight distance the number of access points and high volume of traffic has raised concerns about the appropriate speed limit. There has also been a higher than average number of accidents on this roadway in past 10 years.

c.) Accident Characteristics: In the last 10 years 12 injury accidents and 18 property damage accidents.

d.) Remarks / Recommendations : Given the residential nature of the road, the varying geometrics and the number of accidents, it is my recommendation that the speed limit for the described portion of the road be lowered from 50 mph to 40 mph.

Erik Paul Martin
Maintenance and Traffic Engineer

A>B : South
B<A : North
MP : 2.654

Site: Shorey Rd
Thursday, 12/12/2013 10:00 AM -
Thursday, 12/19/2013 2:15 PM

Volume Grand Totals

Average Hourly Volumes

	A>B	B<A	Combined
12:00 AM	9.0	2.9	11.9
1:00 AM	4.3	2.1	6.4
2:00 AM	2.1	2.0	4.1
3:00 AM	2.7	4.7	7.4
4:00 AM	2.4	8.9	11.3
5:00 AM	1.3	26.7	28.0
6:00 AM	7.7	55.1	62.9
7:00 AM	13.0	90.6	103.6
8:00 AM	21.4	67.4	88.9
9:00 AM	30.6	62.6	93.1
10:00 AM	36.3	63.5	99.8
11:00 AM	48.9	57.5	106.4
12:00 PM	50.6	57.9	108.5
1:00 PM	57.6	53.5	111.1
2:00 PM	69.3	50.4	119.7
3:00 PM	89.9	58.9	148.7
4:00 PM	101.1	57.4	158.6
5:00 PM	103.6	52.4	156.0
6:00 PM	61.0	37.9	98.9
7:00 PM	49.4	22.6	72.0
8:00 PM	48.9	20.1	69.0
9:00 PM	34.0	11.6	45.6
10:00 PM	20.0	7.1	27.1
11:00 PM	12.4	4.3	16.7
Average Daily Traffic (ADT)	877.5	878.1	1755.6

Volume Totals

A>B	B<A	Combined
6336	6379	12715
49.8 %	50.2 %	

A>B : South
B<A : North
MP : 2.654

Site: Shorey Rd
Thursday, 12/12/2013 10:00 AM -
Thursday, 12/19/2013 2:00 PM

Classification Grand Totals

Hourly Averages

Combined

Interval Start	Total	Motor Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi
12:00 AM	11.9	0.0	7.4	4.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1:00 AM	6.4	0.0	3.6	1.9	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2:00 AM	4.1	0.0	2.1	1.6	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3:00 AM	7.4	0.0	5.7	1.6	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4:00 AM	11.3	0.0	7.7	3.0	0.0	0.1	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0
5:00 AM	28.0	0.1	16.7	7.9	0.0	3.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0
6:00 AM	62.9	0.0	41.9	16.6	0.0	4.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7:00 AM	103.6	0.0	70.3	28.1	0.7	3.7	0.6	0.0	0.1	0.0	0.0	0.0	0.0	0.0
8:00 AM	88.9	0.0	62.3	19.0	0.0	6.1	0.6	0.0	0.7	0.1	0.0	0.0	0.0	0.0
9:00 AM	93.1	0.0	62.4	21.7	0.1	8.0	0.1	0.0	0.7	0.0	0.0	0.0	0.0	0.0
10:00 AM	99.8	0.0	66.1	22.9	0.0	9.4	0.3	0.0	1.0	0.0	0.1	0.0	0.0	0.0
11:00 AM	106.4	0.1	65.4	25.5	0.3	13.6	0.1	0.0	1.3	0.1	0.0	0.0	0.0	0.0
12:00 PM	108.5	0.1	71.3	25.3	0.3	10.9	0.1	0.1	0.5	0.0	0.0	0.0	0.0	0.0
1:00 PM	111.1	0.0	72.4	26.9	0.3	10.6	0.1	0.0	0.9	0.0	0.0	0.0	0.0	0.0
2:00 PM	119.7	0.0	78.9	28.3	0.0	11.6	0.1	0.0	0.9	0.0	0.0	0.0	0.0	0.0
3:00 PM	148.7	0.3	91.3	37.7	1.7	16.4	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0
4:00 PM	158.6	0.0	99.1	41.6	0.1	17.3	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0
5:00 PM	156.0	0.0	100.4	38.3	0.1	16.1	0.1	0.0	0.7	0.1	0.0	0.0	0.0	0.0
6:00 PM	98.9	0.0	68.0	22.9	0.0	7.4	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0
7:00 PM	72.0	0.0	47.1	18.7	0.0	5.7	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0
8:00 PM	69.0	0.0	47.1	16.0	0.0	5.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9:00 PM	45.6	0.0	31.9	11.4	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10:00 PM	27.1	0.0	20.1	5.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11:00 PM	16.7	0.0	11.3	4.3	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Daily Average	1755.6	0.7	1150.6	429.9	3.6	157.5	2.6	0.1	9.6	0.4	0.6	0.0	0.0	0.0

Study Grand Totals

	Total	Motor Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi
Combined	12715	5	8329	3110	26	1147	19	1	71	3	4	0	0	0
		0.0 %	65.5 %	24.5 %	0.2 %	9.0 %	0.1 %	0.0 %	0.6 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
A>B	6336	2	3777	1708	17	782	11	0	37	2	0	0	0	0
		0.0 %	59.6 %	27.0 %	0.3 %	12.3 %	0.2 %	0.0 %	0.6 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
B<A	6379	3	4552	1402	9	365	8	1	34	1	4	0	0	0
		0.0 %	71.4 %	22.0 %	0.1 %	5.7 %	0.1 %	0.0 %	0.5 %	0.0 %	0.1 %	0.0 %	0.0 %	0.0 %

A>B : South
B<A : North
MP : 2.654

Site: Shorey Rd
Thursday, 12/12/2013 10:00 AM -
Thursday, 12/19/2013 2:00 PM

Speed Grand Totals

Hourly Averages Combined

mph	Total	0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200
12:00 AM	11.9	0.0	0.0	0.3	0.3	2.4	3.6	3.6	1.3	0.4	0.0	0.0	0.0	0.0
1:00 AM	6.4	0.0	0.0	0.0	0.6	1.0	1.6	1.7	1.1	0.4	0.0	0.0	0.0	0.0
2:00 AM	4.1	0.0	0.0	0.0	0.3	0.3	1.3	1.3	0.9	0.1	0.0	0.0	0.0	0.0
3:00 AM	7.4	0.0	0.0	0.0	0.7	1.0	3.1	1.1	0.9	0.3	0.3	0.0	0.0	0.0
4:00 AM	11.3	0.0	0.0	0.3	0.7	3.6	2.9	2.3	1.1	0.3	0.0	0.1	0.0	0.0
5:00 AM	28.0	0.0	0.3	0.6	2.3	7.0	10.7	6.3	0.9	0.0	0.0	0.0	0.0	0.0
6:00 AM	62.9	0.0	0.3	1.0	4.3	13.9	26.7	14.4	2.0	0.3	0.0	0.0	0.0	0.0
7:00 AM	103.6	0.1	0.3	1.6	4.7	27.7	38.1	25.1	5.4	0.4	0.0	0.0	0.0	0.0
8:00 AM	88.9	0.0	0.3	0.9	5.0	20.4	31.6	22.6	6.9	1.0	0.3	0.0	0.0	0.0
9:00 AM	93.1	0.1	0.3	0.9	5.7	20.8	35.9	22.1	6.4	1.4	0.0	0.0	0.0	0.0
10:00 AM	99.8	0.1	0.3	1.3	8.0	22.9	32.9	24.4	8.1	1.5	0.3	0.1	0.0	0.0
11:00 AM	106.4	0.3	0.4	1.9	6.8	18.0	35.3	30.8	10.9	2.0	0.3	0.0	0.0	0.0
12:00 PM	108.5	0.0	0.1	0.3	5.0	20.3	34.1	30.4	13.3	4.8	0.4	0.0	0.0	0.0
1:00 PM	114.1	0.0	0.3	0.8	4.6	19.1	41.9	28.4	12.8	2.8	0.4	0.3	0.0	0.0
2:00 PM	119.7	0.0	0.4	0.7	4.6	19.0	42.0	34.7	14.4	3.7	0.1	0.0	0.0	0.0
3:00 PM	148.7	0.1	0.3	0.9	7.7	24.6	47.3	45.0	19.0	3.7	0.1	0.0	0.0	0.0
4:00 PM	158.6	0.0	0.0	0.6	4.9	26.1	53.3	49.9	18.9	4.1	0.9	0.0	0.0	0.0
5:00 PM	156.0	0.0	0.1	0.6	5.9	26.7	56.0	46.0	16.9	3.3	0.6	0.0	0.0	0.0
6:00 PM	98.9	0.0	0.3	0.7	4.0	19.1	32.0	27.0	12.4	3.1	0.1	0.0	0.0	0.0
7:00 PM	72.0	0.0	0.3	0.7	2.7	11.6	21.1	21.3	11.4	2.9	0.0	0.0	0.0	0.0
8:00 PM	69.0	0.1	0.0	0.6	3.1	13.4	24.0	18.6	7.0	1.6	0.4	0.0	0.0	0.1
9:00 PM	45.6	0.0	0.1	0.1	2.0	8.4	12.9	13.3	7.3	1.1	0.1	0.0	0.1	0.0
10:00 PM	27.1	0.0	0.1	0.4	0.9	5.3	7.0	8.1	4.3	0.9	0.1	0.0	0.0	0.0
11:00 PM	16.7	0.0	0.0	0.0	1.0	2.0	4.7	4.7	3.4	0.6	0.1	0.1	0.0	0.0
Daily Average	1755.6	0.9	4.1	14.8	85.7	334.1	599.8	483.0	186.9	40.7	4.5	0.7	0.1	0.1

Average (Mean) 38.7 mph **Minimum** 10.8 mph **Maximum** 70.2 mph **Pace Range** 33.6 - 43.6 mph 8035 vehicles (63.2 %)

Percentile Speeds	10%	15%	50%	85%	90%
(mph)	31.6	33.0	38.7	44.5	45.9

Speeds Exceeded	25 mph	35 mph	45 mph	55 mph	65 mph	75 mph
	98.9 % (12570)	74.9 % (9527)	13.3 % (1689)	0.3 % (40)	0.0 % (2)	0.0 % (0)

Study Grand Totals

	Total	0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200
Combined	12715	7	30	108	624	2419	4343	3495	1353	296	33	5	1	1
		0.1 %	0.2 %	0.8 %	4.9 %	19.0 %	34.2 %	27.5 %	10.6 %	2.3 %	0.3 %	0.0 %	0.0 %	0.0 %
A>B	6336	3	15	46	193	764	1909	2054	1050	265	32	3	1	1
		0.0 %	0.2 %	0.7 %	3.0 %	12.1 %	30.1 %	32.4 %	16.6 %	4.2 %	0.5 %	0.0 %	0.0 %	0.0 %
B<A	6379	4	15	62	431	1655	2434	1441	303	31	1	2	0	0
		0.1 %	0.2 %	1.0 %	6.8 %	25.9 %	38.2 %	22.6 %	4.7 %	0.5 %	0.0 %	0.0 %	0.0 %	0.0 %

Collision Summary

Rd #	MP	Rd Name	Report #	Date	ADT	Sev	# Veh	# Inj	# Fatal	Collision Type	Unit 1 CC	Weather	Light
40098	1.074	SHOREY RD	1741202	01/09/04	506	1	1	0	0	Fixed object	Exceeding Reas. Safe Speed	Raining	Daylight
40098	1.574	SHOREY RD	1576305	02/17/05	506	1	1	0	0	Fixed object	Exceeding Reas. Safe Speed	Clear or Partly Cloudy	Daylight
40098	2.409	SHOREY RD	1740029	05/05/05	506	1	1	0	0	Fixed object	Under Influence of Drugs	Clear or Partly Cloudy	Dark-Street Lights Off
40098	1.474	SHOREY RD	1740168	07/22/05	506	2	1	1	0	Vehicle overturned	Exceeding Reas. Safe Speed	Clear or Partly Cloudy	Dark-No Street Lights
40098	0.974	SHOREY RD	2009520	10/11/05	506	2	3	1	0	One parked--one moving	Exceeding Reas. Safe Speed	Clear or Partly Cloudy	Daylight
40098	2.458	SHOREY RD	1741186	10/18/05	506	2	1	1	0	Non-domestic animal (deer/bear/elk/etc)	None	Clear or Partly Cloudy	Dark-No Street Lights
40098	1.074	SHOREY RD	1740061	10/20/05	506	2	1	1	0	Fixed object	Exceeding Stated Speed Limit	Overcast	Daylight
40098	1.174	SHOREY RD	1269375	12/12/05	506	2	1	3	0	Fixed object	Exceeding Reas. Safe Speed	Overcast	Dark-No Street Lights
40098	2.666	SHOREY RD	2340406	01/30/06	506	1	2	0	0	From same direction - both going straight - both moving - rear-end	Exceeding Reas. Safe Speed	Overcast	Daylight
40098	0.974	SHOREY RD	2293317	06/07/06	506	1	1	0	0	Fixed object	Apparently Asleep	Clear or Partly Cloudy	Daylight
40098	2.566	SHOREY RD	2385199	08/17/06	506	2	2	1	0	From same direction - one right turn - one straight	Follow Too Closely	Clear or Partly Cloudy	Daylight
40098	2.466	SHOREY RD	2574290	08/18/06	506	1	2	0	0	Entering at angle	None	Clear or Partly Cloudy	Daylight
40098	1.374	SHOREY RD	2563574	11/19/06	506	2	2	1	0	Fixed object	Under Influence of Alcohol	Clear or Partly Cloudy	Dark-Street Lights Off
40098	2.277	SHOREY RD	C678597	12/05/06	506	1	1	0	0	Non-domestic animal (deer/bear/elk/etc)		Overcast	Dark-No Street Lights
40098	2.174	SHOREY RD	2563485	12/30/06	506	2	1	2	0	Fixed object	Exceeding Reas. Safe Speed	Clear or Partly Cloudy	Dark-No Street Lights
40098	0.974	SHOREY RD	2522006	01/11/07	506	2	1	1	0	Fixed object	Exceeding Reas. Safe Speed	Clear or Partly Cloudy	Dark-Street Lights On
40098	2.409	SHOREY RD	2522301	01/26/07	506	1	1	0	0	Non-domestic animal (deer/bear/elk/etc)	Driver Distractions Outside the Vehicle	Overcast	Dark-No Street Lights
40098	1.374	SHOREY RD	2672796	04/01/07	506	1	1	0	0	Vehicle overturned	Under Influence of	Overcast	Daylight

01/27/2014

Collision Summary

Rd #	MP	Rd Name	Report #	Date	ADT	Sev	# Veh	# Inj	# Fatal	Collision Type	Unit 1 CC	Weather	Light
40098	1.974	SHOREY RD	2815927	07/02/07	506	2	1	1	0	Non-domestic animal (deer/bear/elk/etc)	Alcohol Inattention	Clear or Partly Cloudy	Daylight
40098	1.244	SHOREY RD	2522305	12/30/07	506	1	1	0	0	Fixed object	Exceeding Reas. Safe Speed	Unknown	Unknown
40098	2.366	SHOREY RD	E006885	08/15/08	506	1	1	0	0	Fixed object	Unknown Driver Distraction	Clear or Partly Cloudy	Daylight
40098	2.216	SHOREY RD	353085	01/04/09	506	2	1	3	0	Fixed object	None	Snowing	Dusk
40098	1.274	SHOREY RD	2672352	02/10/09	506	1	1	0	0	Fixed object	Exceeding Reas. Safe Speed	Snowing	Daylight
40098	2.466	SHOREY RD	3124207	03/02/09	506	1	2	0	0	From same direction - all others	Improper Backing	Clear or Partly Cloudy	Daylight
40098	2.352	SHOREY RD	E016649	03/10/09	506	1	1	0	0	Vehicle strikes deer	None	Overcast	Dark-No Street Lights
40098	0.974	SHOREY RD	E061806	07/31/10	506	1	2	0	0	Entering at angle	Did Not Grant ROW to Vehicle	Clear or Partly Cloudy	Daylight
40098	2.200	SHOREY RD	E082557	12/09/10	506	1	1	0	0	Vehicle strikes deer	None	Raining	Dark-No Street Lights
40098	2.854	SHOREY RD	E097305	03/22/11	506	2	1	1	0	Vehicle overturned	Exceeding Reas. Safe Speed	Overcast	Daylight
40098	2.466	SHOREY RD	E105913	05/19/11	506	2	1	1	0	Fixed object	Inattention	Clear or Partly Cloudy	Daylight
40098	0.991	SHOREY RD	E136083	11/12/11	506	1	1	0	0	Fixed object	Exceeding Reas. Safe Speed	Clear or Partly Cloudy	Dawn
40098	1.905	SHOREY RD	E189240	08/29/12	506	1	1	0	0	Fixed object		Clear or Partly Cloudy	Daylight
40098	1.000	SHOREY RD	E233793	03/22/13	506	2	1	1	0	Fixed object	None	Overcast	Daylight

01/27/2014