

NEIGHBORHOOD ADVISORY

Traffic Calming – Project Update: Grandin Avenue Between Reading Terrace and Nimitz Avenue

Project History

This project was approved during the 2004-2005 Town Center Traffic Calming Process, which aimed to proactively address traffic concerns in city neighborhoods as well as an effort to create an exceptionally safe built environment. This project has included a survey of residents' concerns and potential solutions, and two public meetings. The recommended final concept design was based on residents' input.

Work Performed

In accordance to the recommended final concept design, the following elements were implemented:

- Installed four crosswalks with appropriate "Ped Crossing" signs at Grandin/Woodburn (December 07)
- Posted "Local Traffic Only 6-9 AM and 4-7 PM" signs at 5 locations on Veirs Mill Road (January 08)
- Posted two "Cross Traffic Does Not Stop" signs at Grandin/Broadwood, (December 07), and
- After the police dept. displayed the portable variable speed sign for two weeks (January 08), permanent speed feedback signs were installed at two locations (mid-May 2008)

A map showing the elements of the recommended final concept design and their locations is available on the City of Rockville web site at: <http://www.rockvillemd.gov/residents/traffic/pdf/GrandinRecommendations0807.pdf>

Preliminary Results

After the project elements were installed, traffic count data were collected in order to assess the impact of the feedback signs (on speed) and the impact of the "Local Traffic Only" signs (on volume) since 2007. The new counts were conducted on May 21, 22, and June 4, and 5, 2008. In summary, the westbound traffic volume on the section of Grandin between Dean and Broadwood Drives has decreased by 5.3% and 15.8% during the morning and afternoon peak hours, respectively. A reduction of 23.7% in traffic volume was recorded during the morning peak hour on the section between Woodburn Rd. and First St. in the same direction. The most notable speed reduction was recorded on the same section; the 85th percentile speed dropped from 31.4 to 25.1 MPH during the afternoon peak period and from 31.2 to 25.6 MPH during the morning period (20.1% and 17.9% reduction, respectively). The preliminary evaluation of the results and more data is available on the City web site at: <http://www.rockvillemd.gov/residents/traffic/pdf/GrandinResults0608.pdf>.

Next Step

The Traffic and Transportation Division will continue to monitor traffic volume and speed on Grandin Avenue, and the road could be considered for speed cameras. In the next few months, the Traffic and Transportation Division will also fund a project to add streetlights on Grandin Avenue to improve pedestrian and vehicular safety on the road.

If you have any questions, please contact any of the following City staff:

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o Traffic Volume & Speed Comparison along Grandin Ave (Bet 2007 & 2008)

1. Grandin Ave-Dean Dr & Broadwood Dr (# 11A & # 2A) (March 27,2007 - March 28,2007) & (May 21, 2008 - May 22, 2008)

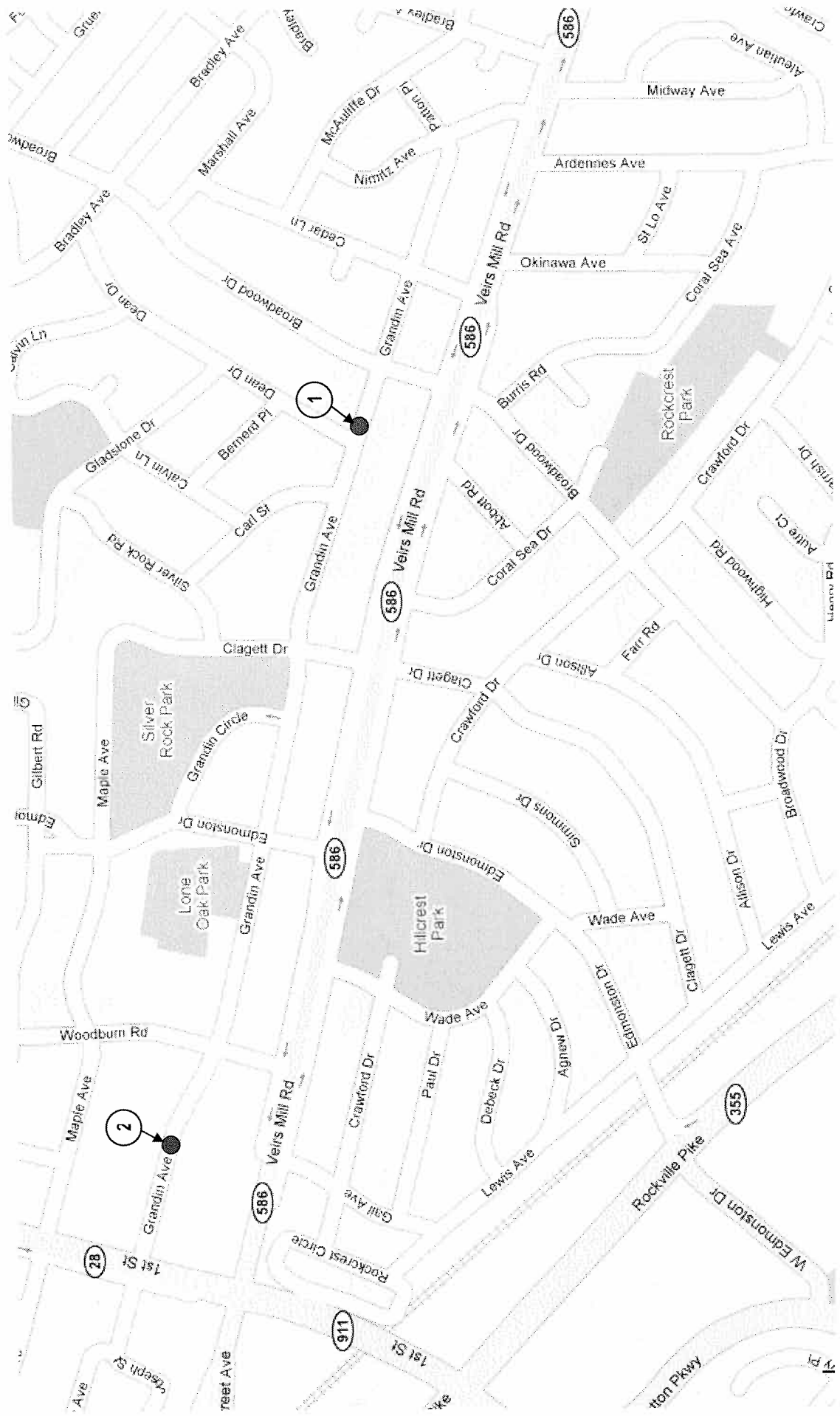
	Traffic Volume (Vol)											
	Wednesday				Thursday				Average			
	Westbound (WB)		EB & WB		Westbound (WB)		EB & WB		Westbound (WB)		EB & WB	
	2007	% Change	2007	% Change	2007	% Change	2007	% Change	2007	% Change	2007	% Change
AM Peak (7 AM - 9 AM)	71	7.0%	115	7.8%	79	66	137	131	75	71	126	128
PM Peak (4 PM - 6 PM)	69	-2.9%	126	31.0%	83	61	152	161	76	64	139	163
Daily (24 Hrs)	721	-3.7%	1510	-0.6%	777	701	1599	1542	749	698	1555	1522

	85% Speed (MPH)											
	Wednesday				Thursday				Average			
	Westbound (WB)		EB & WB		Westbound (WB)		EB & WB		Westbound (WB)		EB & WB	
	2007	% Change	2007	% Change	2007	% Change	2007	% Change	2007	% Change	2007	% Change
AM Peak (7 AM - 9 AM)	28.6	4.9%	28.6	2.4%	28.9	30.4	28.9	30.2	28.8	30.2	28.8	29.8
PM Peak (4 PM - 6 PM)	29.1	-2.4%	29.5	3.7%	28.6	28.4	30.0	29.1	28.9	28.4	29.8	29.9
Daily (24 Hrs)	28.2	0.7%	28.9	0.7%	28.0	28.6	28.9	29.1	28.1	28.5	28.9	29.1

2. Grandin Ave-First St & Woodburn Rd (# 7A & # 9A) (May 15,2007 - May 17,2007) & (June 4, 2008 - June 5, 2008)

	Traffic Volume (Vol)											
	Wednesday				Thursday				Average			
	Westbound (WB)		EB & WB		Westbound (WB)		EB & WB		Westbound (WB)		EB & WB	
	2007	% Change	2007	% Change	2007	% Change	2007	% Change	2007	% Change	2007	% Change
AM Peak (7 AM - 9 AM)	204	-23.5%	228	174	154	117	176	133	179	137	202	154
PM Peak (4 PM - 6 PM)	92	84.8%	136	215	142	87	177	124	117	129	157	170
Daily (24 Hrs)	1032	2.6%	1338	1407	1046	799	1328	1084	1039	929	1333	1246

	85% Speed (MPH)											
	Wednesday				Thursday				Average			
	WB		EB & WB		WB		EB & WB		WB		EB & WB	
	2007	% Change	2007	% Change	2007	% Change	2007	% Change	2007	% Change	2007	% Change
AM Peak (7 AM - 9 AM)	30.6	-16.0%	30.4	25.5	31.8	25.5	31.5	25.7	31.2	25.6	31.0	25.6
PM Peak (4 PM - 6 PM)	30.4	-19.7%	30.4	23.9	32.4	25.7	31.8	27.1	31.4	25.1	31.1	25.5
Daily (24 Hrs)	30.9	-20.4%	30.2	24.8	31.5	25.7	31.3	26.2	31.2	25.2	30.8	25.5



o Traffic Counts & Speed Data along Grandin Ave

Time : May 21, 2008 - May 22, 2008 & June 04, 2008 - June 05, 2008

Posted Speed Limit: 25 MPH

1. 1310 Grandin Ave (# 1A) (Bet Clagett Dr & Coral St) (May 21, 2008 - May 22, 2008)

	85% Speed (MPH)				Traffic Volumes (Veh)			
	Wednesday		Thursday		Wednesday		Thursday	
	WB	EB & WB	WB	EB & WB	WB	EB & WB	WB	EB & WB
AM Peak (7 AM - 9 AM)	28	28	28	27	83	127	67	117
PM Peak (4 PM - 6 PM)	26	27	26	26	65	166	55	168
Daily (24 Hrs)	26	27	26	27	682	1453	685	1474

2. 300 Grandin Ave & Dean Dr (#2A) (At Grandin Ave & Dean Dr) (May 21, 2008 - May 22, 2008)

	85% Speed (MPH)				Traffic Volumes (Veh)			
	Wednesday		Thursday		Wednesday		Thursday	
	WB	EB & WB	WB	EB & WB	WB	EB & WB	WB	EB & WB
AM Peak (7 AM - 9 AM)	30	29	30	30	76	124	66	131
PM Peak (4 PM - 6 PM)	28	31	28	29	67	165	61	161
Daily (24 Hrs)	28	29	29	29	694	1501	701	1542

3. 1110 Grandin Ave (# 3A) (Bet Edmonston Dr & Grandin Circle) (May 21, 2008 - May 22, 2008)

	85% Speed (MPH)				Traffic Volumes (Veh)			
	Wednesday		Thursday		Wednesday		Thursday	
	WB	EB & WB	WB	EB & WB	WB	EB & WB	WB	EB & WB
AM Peak (7 AM - 9 AM)	30	31	31	31	121	158	88	133
PM Peak (4 PM - 6 PM)	30	32	30	31	91	180	99	196
Daily (24 Hrs)	30	31	30	31	922	1583	769	1482

4. 1011 Grandin Ave (# 4A) (Bet Woodburn Rd & Wade) (May 21, 2008 - May 22, 2008)

	85% Speed (MPH)				Traffic Volumes (Veh)			
	Wednesday		Thursday		Wednesday		Thursday	
	WB	EB & WB	WB	EB & WB	WB	EB & WB	WB	EB & WB
AM Peak (7 AM - 9 AM)	28	29	28	29	168	247	115	201
PM Peak (4 PM - 6 PM)	28	29	27	29	139	314	144	310
Daily (24 Hrs)	27	28	28	29	1335	2484	904	1964

5. 917 Grandin Ave (# 9A) (Bet 1st St & Woodburn Rd) (June 4, 2008 - June 5, 2008)

	85% Speed (MPH)				Traffic Volumes (Veh)			
	Wednesday		Thursday		Wednesday		Thursday	
	WB	EB & WB	WB	EB & WB	WB	EB & WB	WB	EB & WB
AM Peak (7 AM - 9 AM)	26	26	26	26	156	174	117	133
PM Peak (4 PM - 6 PM)	24	24	26	27	170	215	87	124
Daily (24 Hrs)	25	25	26	26	1059	1407	799	1084