



# CITY OF RAPID CITY

## Engineering Division

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Public Works Committee of the Rapid City Council

**No. PW022404-16**

Reference: Options to attempt to reduce vehicular speeds on Mountain View Road between Lance and Arrow Streets.

Dear Council members,

Per December 30, 2003 Public Works Committee proceedings, staff has compiled the following list of potential options to attempt to reduce vehicular speeds on Mountain View Road between Lance and Arrow Streets.

Summary of Options to reduce vehicular speeds on Mountain View Road between Lance and Arrow Streets			
OPTION	ESTIMATE D COST	PROS	CONS
<u>ENFORCEMENT</u> : One Patrol officer and vehicle for three hours each week for one year	\$10,530	Effective speed reduction while officer present	Not long lasting. Resource intensive
<u>ENGINEERING</u> :			
Mini-Roundabout	\$140,000 (plus utilities)	Effective speed reduction at the intersection	Marginal speed reduction at midblock
Narrow the Intersection	\$75,000 (plus utilities)	Potential speed reduction at the intersection	Marginal speed reduction at midblock
Narrow Mountain View: Lance to Arrow (No new pavement)	\$50,000 (plus utilities)	Potential speed reduction	
Speed hump	\$4,000	Effective speed reduction at the hump. Spacing of 500' between humps recommended	Emergency vehicle delay of 5 to 10 seconds per hump. May increase road noise.
Mobile Speed Monitor Unit (similar to trailer mounted unit, except smaller and pole mounted)	\$14,000 (for 2 units)	Mobile units can be used at various locations	Potential vandalism. Unit weights 460 pounds which may limit mobility.



EQUAL OPPORTUNITY EMPLOYER

I recommend the enforcement option. If this is not feasible because of manpower considerations, then the mobile speed monitor units would be the next choice. A unit has been installed in Custer southbound on Hwy 385, and the County Highway Superintendent (John Culberson 673-8179) says there has been a noticeable speed reduction. This unit includes flashing yellow lights which are activated when a passing vehicle exceeds the speed limit. With the solar powered option, these units could be moved to various locations where speeding is a problem. However, with a weight of 460 pounds it would be manpower intensive to move the units on a regular basis.

Respectfully,

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