

**VAN DUESEN ROAD AREA
2007 ROADWAY CAPITAL IMPROVEMENT
PROGRAM COST ESTIMATE**



**ADOPTED BY GEM COUNTY
BOARD OF COUNTY COMMISSIONERS**

October 2007

Exhibit A

VAN DUESEN ROAD AREA 2007 ROADWAY CAPITAL IMPROVEMENT PROGRAM COST ESTIMATE

Location: Van Duesen Road Area

Study Boundary:

- North: Washington County Line
- South: Black Canyon Highway and State Highway 52
- West: Mesa Ave extended North to Payette County Line
- East: Squaw Ridge to Payette County Line

Roadway Engineering/Construction Costs

<u>Classification</u>	<u>Length</u>	<u>Cost/Mile</u>	<u>Total</u>
Local	19.93 miles	\$760,000	\$15,146,800
Minor Collector	10.50 miles	\$950,000	\$9,975,000
Major Collector (1/2) ¹	5.64 miles	\$650,000	\$3,666,000
		Sub Total	<u>\$28,787,800</u>

Intersection Improvement Costs

<u>Location</u>	<u>Cost</u>
Black Canyon Hwy and Van Duesen Rd ¹	\$125,000
	Sub Total <u>\$125,000</u>

Right of Way Costs

Right of Way acquisition: 79.43 acres @ \$100,000/acre \$7,943,000

Other

Share of CIP Study Fee \$3,100

Capital Improvement Cost Total \$36,858,900

Based on a combined capacity of 32,250 vpd level of service threshold, cost per vehicle trip = \$1,143.

For a typical single family residential development (9 trips/lot), **cost per lot = \$10,287.**

Note: Assumes 1 major collector outlet at 8,500 vpd, ½ major collector outlet ¹ at 4,250 vpd, and 3 minor collector outlets at 6,500 vpd for a total of 32,250 vpd.

¹ Shared with Lower Bench CIP Area

Exhibit B
VAN DUESEN ROAD AREA
2007 ROADWAY CAPITAL IMPROVEMENT PROGRAM
MAP OF CIP AREA

