

2010 Planning Level Estimating: (cost per unit)

<u>Reconstruction:</u>		<u>per Lane Mile</u>
Urban (includes appur.) =		\$2.200M +/-
Suburban/Village ¹ =		\$1.750M +/-
Subrural/Rural =		\$1.200M +/-

Reconstruction with widening (without additional lanes) factor cost proportional to reflect entire pavement widening. For example, 10' lanes and 4' shoulders to 12' lanes and 6' shoulders yields a 1.285 factor.

Example: Village = \$1.750M /LM x 1.285 = \$2.250M /LM

<u>Additional lanes:</u>		<u>per Lane Miles</u>
Through lanes =		\$0.900M +/-
Turning lanes =		\$0.250M each per approach

<u>New highway:</u>		<u>per Lane Miles</u>
Urban =		\$4.500M +/-
Suburban/Village ¹ =		\$3.750M +/-
Subrural/Rural =		\$3.000M +/-

<u>Add ons:</u>		
Concrete med barrier =		\$160 per LF
Signals =		\$85,000 each location +/-
Guide rail =		\$45-\$50 per LF
Curbing =		8%
Drainage (closed) =		20% +/-
Curb ramps =		\$5,000 each

¹ Includes areas with significant development and would involve closed drainage and curbing, but not necessarily sidewalks.

Sidewalks	=	\$25-\$35 per LF (use \$35) (\$17 per ft ³)
Box culvert	=	\$80,000-\$120,000 each +/-
Bike lane	=	8%-10% (new/addition)
Small culverts	=	\$5,000-\$40,000 each +/-
VMS	=	\$7,500-15,000 each +/-

Use MOE factor 25%-30% (include contingency and MPT)

Other:

Retaining walls	=	\$450 per ft ² – new/replace \$360 per ft ² – major rehab \$275 per ft ² – minor rehab
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Resurfacing:

		<u>per Lane Miles</u>
Microsurfacing	=	\$0.030M +/-
VPP	=	\$0.045M +/-
1-course overlay	=	\$0.090M to \$0.150M
CIPR	=	\$0.300M +/-
Mill and Fill	=	\$0.375M +/-