Statewide Average Highway Improvement Costs for 2005

Improvement Type	Cost/Mile ($2005)	Project Costs	Structure Costs Only
Resurface[1-5]			
Rural (2-Lane)	$215,000		
Rural (Multilane)	$420,000		
Urban (2-Lane)	$480,000		
Urban (Multilane)	$725,000		
Recondition - Minor[1-5]			
Rural (2-Lane)	$360,000		
Rural (Multilane)	$520,000		
Urban (2-Lane)	$690,000		
Urban (Multilane)	$1,420,000		
Recondition - Major[1-5]			
Rural (2-Lane)	$555,000		
Rural (Multilane)	$1,750,000		
Urban (2-Lane)	$975,000		
Urban (Multilane)	$3,250,000		
Pavement Replacement[1-5]			
Rural (2-Lane)	$295,000		
Rural (Multilane)	$875,000		
Urban (2-Lane)	$720,000		
Urban (Multilane)	$1,000,000		
Reconstruction[1-5]			
Rural (2-Lane)	$1,205,000		
Rural (Multilane)	$2,300,000		
Urban (2-Lane)	$2,100,000		
Urban (Multilane)	$4,000,000		
Bridge[1-3]		Project Costs	Structure Costs Only
Bridge Replacement < 1500 SF		$130/S.F.	$90/S.F.
Bridge Replacement > 1500 SF		$90/S.F.	$75/S.F.
Bridge Deck Replacement		$60/S.F.	$45/S.F.
Bridge Deck Overlay		$15/S.F.	$12/S.F.
Box Culverts		$1100/L.F./BARREL	$900/L.F./BARREL
Retaining Walls[1-3]			
Split Block		$25-30/S.F.	
Cast-in-Place		$70/S.F.	
MSE (Mech. Stab. Earth)		$30/S.F.	

General Notes

1. Costs DO NOT include design engineering, these costs are typically 15% to 20% of construction costs.
   1a. In general, use 20% design engineering for construction projects < $500,000, bridge replacements or complex projects
2. Costs DO NOT include State design review, these costs are typically 20% of design engineering, minimum $5,000.
   2a. This covers plan review, bid advertisement & printing/mailing of plans to bidders.
3. Costs are AVERAGES and include construction engineering, real estate & utility relocations.
   3a. Costs will vary depending on project complexity.
   3b. Costs DO NOT include extraordinary items such as: traffic signals, HAZMAT mitigation, railroad crossings etc..
   3c. Costs are expressed in 2003 (current year) dollars
   3d. For budgeting purposes, project current year to future year dollars using 3% inflation per year
   3e. Projects which contain: rock excavation, challenging soils, complex traffic control/staging etc..cost/mile may be higher
4. Rural Roadway - presence of side ditches, no curb & gutter, no storm sewer and costs based on standard lane width of 12 feet.
5. Urban Roadway - presence of curb & gutter and costs based on pavement width from curb face - curb face
6. Unit Price Costs are based on statewide averages from WisDOT lettings
7. Costs DO NOT include geometric improvements to the intersection, includes traffic signal hardware & installation
   7a. Secure a qualified design consultant familiar with traffic signal design
8. General cost to produce, haul, and place asphaltic concrete pavement, costs DO NOT include CABC or prep of foundation

Miscellaneous Improvements & Unit Price Costs[6]	
Signalization of Intersection[7]	$95,000 - $150,000 EACH
Overhead Lighting Pole Assembly (150' ave spacing)	$1,800 EACH
Overhead Lighting - Wire & Conduit	$3.50/L.F.
Mill/AC Overlay/CABC Shoulders	$75,000 - $100,000/MILE
AC Overlay - CRC w/County	$60,000-$70,000/MILE
AC Shoulders Only	$12,000/MILE
Asphaltic Concrete Pavement[8]	$60/TON
PCC Joint Repair (through one travel lane)	$850/joint
Retro-Fit Dowel Bars	$30 EACH
Milling - AC Pavement	$1.50 - $2.00/S.Y.
Diamond Grinding PCC Pavement	$2.00 - $2.50/S.Y.
Common Excavation	$2.50/C.Y.
Crushed Aggregate Base Course	$7.00/TON
PCC Pavement - 9"	$20.00/S.Y.
Storm Sewer Pipe - 18"	$32/L.F.
Inlets - Type 3 (250' ave spacing)	$600 EACH
Inlet Covers - Type H	$300 EACH
Manholes - Type 3 (@ all junctions)	$2,150 EACH
Manhole Covers - Type L	$245 EACH
Concrete Sidewalk - 4"	$2.25/S.F.
Concrete Sidewalk - 6"	$2.80/S.F.
Concrete Curb & Gutter	$8.00/L.F.
Concrete Driveway	$24.00/S.Y.
Beam Guard	$10.00/L.F.
Beam Guard Anchorages & Grading	$2,500/End Treatment
Culvert Pipe - 36"	$38/L.F.
Culvert Pipe Endwall - 36"	$350 EACH
Reinforced Concrete Culvert Pipe - 36"	$62/L.F.
Reinforced Concrete Culvert PipeEndwall - 36"	$725 EACH
Riprap	$45/C.Y.