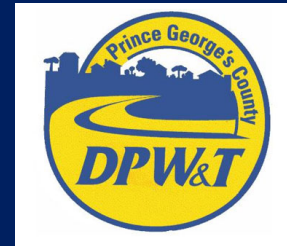




**Prince George's County Government**  
**Department of Public Works and Transportation**  
**Office of Engineering and Project Management**  
**Highway and Bridge Design Division**  
**9400 Peppercorn Place, Suite 400**  
**Largo, Maryland 20774**



**The Prince George's County Protecting and Connecting Communities Bridge Preservation Project**  
**BRIDGE PROJECT GRANT APPLICATION COST ESTIMATE**  
**Revision Date: 8/30/2022**

The budget cost for The Prince George's County Protecting and Connecting Communities Bridge Preservation Project was developed based on known data, Prince George's County's experience on bridge preservation projects, the July 2022 MDOT SHA Price Index, the most current bridge condition inspection reports, and bid tabulations from four recent (within the past three years) bridge preservation projects.

Task Item	Item Costs	Admin. and Legal 1% MarkUp Cost	Arch. And Engr. 10% MarkUp Cost	Construction Mngt. And Inspection 10% MarkUp Cost	30% Contingency Cost	TOTAL PROJECT COSTS	Federal Share of Costs	County Share of Costs
5 Inch Concrete Sidewalk	\$5,265	\$53	\$527	\$527	\$1,580	\$7,950	\$6,360	\$1,590
5 Inch White Thermoplastic Pavement Markings	\$2,550	\$26	\$255	\$255	\$765	\$3,851	\$3,080	\$770
5 Inch Yellow Thermoplastic Pavement Markings	\$2,550	\$26	\$255	\$255	\$765	\$3,851	\$3,080	\$770
6 Foot Galvanized Chain Link Fence	\$12,240	\$122	\$1,224	\$1,224	\$3,672	\$18,482	\$14,786	\$3,696
Anchor Bolt Replacement	\$6,600	\$66	\$660	\$660	\$1,980	\$9,966	\$7,973	\$1,993
Asphalt for Maintenance of Traffic	\$14,000	\$140	\$1,400	\$1,400	\$4,200	\$21,140	\$16,912	\$4,228
Bearing Modification	\$25,200	\$252	\$2,520	\$2,520	\$7,560	\$38,052	\$30,442	\$7,610
Bridge Roadway Seal Replacement	\$341,000	\$3,410	\$34,100	\$34,100	\$102,300	\$514,910	\$411,928	\$102,982
Class 3 Excavation	\$6,800	\$68	\$680	\$680	\$2,040	\$10,268	\$8,214	\$2,054
Class II Riprap for Slope and Channel Protection	\$4,000	\$40	\$400	\$400	\$1,200	\$6,040	\$4,832	\$1,208
Cleaning and Painting Portions of Existing Bridge No. P-0117	\$388,000	\$3,880	\$38,800	\$38,800	\$116,400	\$585,880	\$468,704	\$117,176
Cleaning and Painting Portions of Existing Bridge No. P-0169	\$207,500	\$2,075	\$20,750	\$20,750	\$62,250	\$313,325	\$250,660	\$62,665
Cleaning and Painting Portions of Existing Bridge No. P-0185	\$39,500	\$395	\$3,950	\$3,950	\$11,850	\$59,645	\$47,716	\$11,929
Cleaning and Painting Portions of Existing Bridge No. P-0190	\$98,500	\$985	\$9,850	\$9,850	\$29,550	\$148,735	\$118,988	\$29,747
Cleaning and Painting Portions of Existing Bridge No. P-0198E	\$178,500	\$1,785	\$17,850	\$17,850	\$53,550	\$269,535	\$215,628	\$53,907
Cleaning and Painting Portions of Existing Bridge No. P-0198W	\$179,500	\$1,795	\$17,950	\$17,950	\$53,850	\$271,045	\$216,836	\$54,209
Cleaning and Painting Portions of Existing Bridge No. P-0204	\$94,000	\$940	\$9,400	\$9,400	\$28,200	\$141,940	\$113,552	\$28,388
Cleaning and Painting Portions of Existing Bridge No. P-0205	\$270,500	\$2,705	\$27,050	\$27,050	\$81,150	\$408,455	\$326,764	\$81,691
Cleaning and Painting Portions of Existing Bridge No. P-0273	\$36,000	\$360	\$3,600	\$3,600	\$10,800	\$54,360	\$43,488	\$10,872
Cleaning and Painting Portions of Existing Bridge No. P-0283	\$154,500	\$1,545	\$15,450	\$15,450	\$46,350	\$233,295	\$186,636	\$46,659
Cleaning and Painting Portions of Existing Bridge No. P-0294	\$238,000	\$2,380	\$23,800	\$23,800	\$71,400	\$359,380	\$287,504	\$71,876
Cleaning and Painting Portions of Existing Bridge No. P-0396	\$133,500	\$1,335	\$13,350	\$13,350	\$40,050	\$201,585	\$161,268	\$40,317
Cleaning and Painting Portions of Existing Bridge No. P-0484	\$60,000	\$600	\$6,000	\$6,000	\$18,000	\$90,600	\$72,480	\$18,120
Cleaning and Painting Portions of Existing Bridge No. P-0490	\$154,000	\$1,540	\$15,400	\$15,400	\$46,200	\$232,540	\$186,032	\$46,508
Cleaning and Painting Portions of Existing Bridge No. P-0579	\$51,500	\$515	\$5,150	\$5,150	\$15,450	\$77,765	\$62,212	\$15,553
Cleaning and Painting Portions of Existing Bridge No. P-0596	\$69,500	\$695	\$6,950	\$6,950	\$20,850	\$104,945	\$83,956	\$20,989
Construction Stakeout	\$50,000	\$500	\$5,000	\$5,000	\$15,000	\$75,500	\$60,400	\$15,100
Contingent Fabricated Structural Steel	\$200,000	\$2,000	\$20,000	\$20,000	\$60,000	\$302,000	\$241,600	\$60,400

Task Item	Item Costs	Admin. and Legal 1% MarkUp Cost	Arch. And Engr. 10% MarkUp Cost	Construction Mngt. And Inspection 10% MarkUp Cost	30% Contingency Cost	TOTAL PROJECT COSTS	Federal Share of Costs	County Share of Costs
Drainage Trough For Existing Bridge	\$1,686,000	\$16,860	\$168,600	\$168,600	\$505,800	\$2,545,860	\$2,036,688	\$509,172
Epoxy Pressure Injection	\$321,750	\$3,218	\$32,175	\$32,175	\$96,525	\$485,843	\$388,674	\$97,169
Fabricated Structural Steel	\$280,000	\$2,800	\$28,000	\$28,000	\$84,000	\$422,800	\$338,240	\$84,560
Graded Aggregate Base for Maintenance of Traffic	\$8,500	\$85	\$850	\$850	\$2,550	\$12,835	\$10,268	\$2,567
Jacking Existing Stringer	\$114,000	\$1,140	\$11,400	\$11,400	\$34,200	\$172,140	\$137,712	\$34,428
Maintenance of Stream Flow Bridge No. P-0205	\$75,000	\$750	\$7,500	\$7,500	\$22,500	\$113,250	\$90,600	\$22,650
Maintenance of Stream Flow Bridge No. P-0220	\$75,000	\$750	\$7,500	\$7,500	\$22,500	\$113,250	\$90,600	\$22,650
Maintenance of Stream Flow Bridge No. P-0283	\$75,000	\$750	\$7,500	\$7,500	\$22,500	\$113,250	\$90,600	\$22,650
Maintenance of Stream Flow Bridge No. P-0294	\$75,000	\$750	\$7,500	\$7,500	\$22,500	\$113,250	\$90,600	\$22,650
Maintenance of Stream Flow Bridge No. P-0490	\$75,000	\$750	\$7,500	\$7,500	\$22,500	\$113,250	\$90,600	\$22,650
Maintenance of Stream Flow Bridge No. P-0596	\$75,000	\$750	\$7,500	\$7,500	\$22,500	\$113,250	\$90,600	\$22,650
Maintenance of Traffic	\$850,000	\$8,500	\$85,000	\$85,000	\$255,000	\$1,283,500	\$1,026,800	\$256,700
Metal Railing Three Strand	\$22,500	\$225	\$2,250	\$2,250	\$6,750	\$33,975	\$27,180	\$6,795
Mobilization and Demobilization	\$575,000	\$5,750	\$57,500	\$57,500	\$172,500	\$868,250	\$694,600	\$173,650
Object Markers	\$7,200	\$72	\$720	\$720	\$2,160	\$10,872	\$8,698	\$2,174
Protective Barrier for Portion of Bridge over Electrified Railroad	\$2,500	\$25	\$250	\$250	\$750	\$3,775	\$3,020	\$755
Protective Jacket for Steel Pile	\$20,000	\$200	\$2,000	\$2,000	\$6,000	\$30,200	\$24,160	\$6,040
Removal of Existing Sidewalk	\$1,500	\$15	\$150	\$150	\$450	\$2,265	\$1,812	\$453
Removal of Portions of Existing Structure	\$507,000	\$5,070	\$50,700	\$50,700	\$152,100	\$765,570	\$612,456	\$153,114
Replacement of Elastomeric Bearing Pads	\$3,600	\$36	\$360	\$360	\$1,080	\$5,436	\$4,349	\$1,087
Repointing Masonry Joints	\$14,000	\$140	\$1,400	\$1,400	\$4,200	\$21,140	\$16,912	\$4,228
Single Reinforced Concrete Box Culvert	\$40,000	\$400	\$4,000	\$4,000	\$12,000	\$60,400	\$48,320	\$12,080
Standard Milling Asphalt Pavement over 1 Inch to 2.5 Inch Depth	\$39,000	\$390	\$3,900	\$3,900	\$11,700	\$58,890	\$47,112	\$11,778
Substructure Repair Using Mix #6 Concrete	\$135,000	\$1,350	\$13,500	\$13,500	\$40,500	\$203,850	\$163,080	\$40,770
Superpave Asphalt Mix 12.5mm for Surface, PG 64S-22, Level 2	\$72,000	\$720	\$7,200	\$7,200	\$21,600	\$108,720	\$86,976	\$21,744
Superstructure Concrete For Bridge	\$315,000	\$3,150	\$31,500	\$31,500	\$94,500	\$475,650	\$380,520	\$95,130
Test Pit Excavation	\$6,000	\$60	\$600	\$600	\$1,800	\$9,060	\$7,248	\$1,812
Traffic Barrier W Beam 6 Foot Post	\$4,752	\$48	\$475	\$475	\$1,426	\$7,176	\$5,740	\$1,435
Traffic Barrier W Beam Using 6 Foot Post	\$27,800	\$278	\$2,780	\$2,780	\$8,340	\$41,978	\$33,582	\$8,396
Traffic Barrier W-Beam One-Sided End Treatment (Type C)	\$68,800	\$688	\$6,880	\$6,880	\$20,640	\$103,888	\$83,110	\$20,778
Traffic Barrier W-Beam Radius Anchorage (Type L)	\$3,200	\$32	\$320	\$320	\$960	\$4,832	\$3,866	\$966
Type B Engineers Office	\$45,000	\$450	\$4,500	\$4,500	\$13,500	\$67,950	\$54,360	\$13,590
Type II Deck Repair	\$55,000	\$550	\$5,500	\$5,500	\$16,500	\$83,050	\$66,440	\$16,610
<b>Grand Total</b>	<b>\$8,698,307</b>	<b>\$86,983</b>	<b>\$869,831</b>	<b>\$869,831</b>	<b>\$2,609,492</b>	<b>\$13,134,444</b>	<b>\$10,507,555</b>	<b>\$2,626,889</b>