

Georgetown Pike Footpath Feasibility Study**PRELIMINARY OPINION OF PROBABLE COST****SUMMARY**

	Alignment 1	Alignment 2	Alignment 3	Alignment 4
Preliminary Engineering	\$ 222,626	\$ 268,452	\$ 296,385	\$ 314,631
ROW / Utilities	\$ 963,325	\$ 963,325	\$ 1,335,000	\$ 1,365,325
Construction	\$ 1,855,215	\$ 2,237,100	\$ 2,469,875	\$ 2,621,925
Subtotal:	\$ 3,041,166	\$ 3,468,877	\$ 4,101,259	\$ 4,301,881
Contingency (30%)	\$ 556,565	\$ 671,130	\$ 740,962	\$ 786,578
CEI (18.5%)	\$ 343,215	\$ 413,864	\$ 456,927	\$ 485,056
Project Total:	\$ 3,940,945	\$ 4,553,871	\$ 5,299,149	\$ 5,573,515
Project Total (Rounded):	\$ 3,940,000	\$ 4,550,000	\$ 5,300,000	\$ 5,570,000

General Assumptions:

1. Alignments assume pedestrian bridge length to span Difficult Run within floodplain as depicted on plans.
2. Unit prices are based on publicly available 2-year VDOT historical averages.
3. Foot bridge for all alignments based on assumed cost of \$5000/LF for a 6-ft wide (clear path) truss bridge.
4. Right-of-way costs in Great Falls, Virginia is estimated conservatively at \$25/SF based on recent sales in the area and included cost for the acquisition process.
5. Alignment 1 has an additional bridge mobilization cost due to the more remote nature of this location.
6. Stacked rock retaining wall for Alignment 2 is based on an assumed cost of \$250/SF of wall face.

Georgetown Pike Footpath Feasibility Study**PRELIMINARY OPINION OF PROBABLE COST**

Alignment 1

VDOT R&B SPEC #	ITEM NO.	ITEM DESCRIPTION	QTY	UNITS	UNIT PRICES	TOTAL ITEM PRICE
		General Items				\$ 320,515
513	100	Mobilization	1	LS	\$ 116,915	\$ 116,915
517	101	Construction Surveying	1	LS	\$ 50,000	\$ 50,000
301	111	Clearing and Grubbing	1.17	Acre	\$ 70,000	\$ 81,900
303	120	Regular Excavation	717	CY	\$ 100	\$ 71,700
		Drainage Items				\$ 150,000
510	42765	Drainage Lump Sum Estimate	1	EA	\$ 150,000	\$ 150,000
		Pavement Items				\$ 674,700
309	10128	Aggregate Base Material, Type I, #21B (4" subbase)	1,400	SY	\$ 75	\$ 105,000
315	10635	Aggregate Surface Course (3" trail surface in Great Falls Park)	2,252	SY	\$ 125	\$ 281,500
390	61701	MGS1 Guardrail	1,572	LF	\$ 50	\$ 78,600
315	10642	Asphalt Concrete Pavement (trial surface on Georgetown Pike)	1,048	SY	\$ 200	\$ 209,600
		Erosion & Sediment Control Items				\$ 20,000
606	27327	Lump Sum E&S Estimate	1	EA	\$ 20,000	\$ 20,000
		Structure & Bridge Items				\$ 690,000
ATTD	13544	Pedestrian Truss Bridge and Foundation	120	LF	\$ 5,000	\$ 600,000
ATTD	13544	Pedestrian Bridge Construction Access	15%	LS	\$ 90,000	\$ 90,000
		Construction Cost Subtotal				\$ 1,855,215
		Contingency	30%	of construction cost		\$ 556,565
		CEI	18.5%	of construction cost		\$ 343,215
		TOTAL CONSTRUCTION ESTIMATE				\$ 2,754,994
		Engineering Design	12%	of construction cost		\$ 222,626
		Land Acquisition and Utilities Estimate				\$ 963,325
		Right of Way (Permanent Public Access ESMT)	22,533	SF	\$ 25	\$ 563,325
		Utility Relocation Contingency	1	LS	\$ 400,000	\$ 400,000
		TOTAL ALIGNMENT 1 OPINION OF PROBABLE COST				\$ 3,940,945

DISCLAIMER:

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Georgetown Pike Footpath Feasibility Study**PRELIMINARY OPINION OF PROBABLE COST**

VDOT R&B SPEC #	ITEM NO.	ITEM DESCRIPTION	QTY	UNITS	UNIT PRICES	TOTAL ITEM PRICE
		General Items				\$ 743,400
513	100	Mobilization	1	LS	\$ 135,100	\$ 135,100
517	101	Construction Surveying	1	LS	\$ 50,000	\$ 50,000
301	111	Clearing and Grubbing	1.82	Acre	\$ 70,000	\$ 127,400
ATTD	13544	Stacked Rock Retaining Wall	1,000	SF	\$ 250	\$ 250,000
303	120	Regular Excavation	1,809	CY	\$ 100	\$ 180,900
		Drainage Items				\$ 150,000
510	42765	Drainage Lump Sum Estimate	1	EA	\$ 150,000	\$ 150,000
		Pavement Items				\$ 723,700
309	10128	Aggregate Base Material, Type I, #21B (4" subbase)	1,400	SY	\$ 75	\$ 105,000
315	10635	Aggregate Surface Course (3" trail surface in Great Falls Park)	2,644	SY	\$ 125	\$ 330,500
390	61701	MGS1 Guardrail	1,572	LF	\$ 50	\$ 78,600
315	10642	Asphalt Concrete Pavement (trial surface on Georgetown Pike)	1,048	SY	\$ 200	\$ 209,600
		Erosion & Sediment Control Items				\$ 20,000
606	27327	Lump Sum E&S Estimate	1	EA	\$ 20,000	\$ 20,000
		Structure & Bridge Items				\$ 600,000
ATTD	13544	Pedestrian Truss Bridge and Foundation	120	LF	\$ 5,000	\$ 600,000
		Construction Cost Subtotal				\$ 2,237,100
		Contingency	30%	of construction cost		\$ 671,130
		CEI	18.5%	of construction cost		\$ 413,864
		TOTAL CONSTRUCTION ESTIMATE				\$ 3,322,094
		Engineering Design	12%	of construction cost		\$ 268,452
		Land Acquisition and Utilities Estimate				\$ 963,325
		Right of Way (Permanent Public Access ESMT)	22,533	SF	\$ 25	\$ 563,325
		Utility Relocation Contingency	1	LS	\$ 400,000	\$ 400,000
		TOTAL ALIGNMENT 2 OPINION OF PROBABLE COST				\$ 4,553,871

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Georgetown Pike Footpath Feasibility Study**PRELIMINARY OPINION OF PROBABLE COST**

VDOT R&B SPEC #	ITEM NO.	ITEM DESCRIPTION	QTY	UNITS	UNIT PRICES	TOTAL ITEM PRICE
		General Items				\$ 484,375
513	100	Mobilization	1	LS	\$ 146,185	\$ 146,185
517	101	Construction Surveying	1	LS	\$ 60,000	\$ 60,000
301	111	Clearing and Grubbing	1.33	Acre	\$ 70,000	\$ 92,890
303	120	Regular Excavation	1,853	CY	\$ 100	\$ 185,300
		Drainage Items				\$ 300,000
510	42765	Drainage Lump Sum Estimate	1	EA	\$ 300,000	\$ 300,000
		Pavement Items				\$ 1,050,500
309	10128	Aggregate Base Material, Type I, #21B (4" subbase)	3,964	SY	\$ 75	\$ 297,300
315	10635	Aggregate Surface Course (3" trial surface in Great Falls Park)	-	SY	\$ 125	\$ -
390	61701	MGS1 Guardrail	3,172	LF	\$ 50	\$ 158,600
315	10642	Asphalt Concrete Pavement (trial surface on Georgetown Pike)	2,973	SY	\$ 200	\$ 594,600
		Erosion & Sediment Control Items				\$ 35,000
606	27327	Lump Sum E&S Estimate	1	EA	\$ 35,000	\$ 35,000
		Structure & Bridge Items				\$ 600,000
ATTD	13544	Pedestrian Truss Bridge and Foundation	120	LF	\$ 5,000	\$ 600,000
		Construction Cost Subtotal				\$ 2,469,875
		Contingency	30% of construction cost			\$ 740,962
		CEI	18.5% of construction cost			\$ 456,927
		TOTAL CONSTRUCTION ESTIMATE				\$ 3,667,764
		Engineering Design	12% of construction cost			\$ 296,385
		Land Acquisition and Utilities Estimate				\$ 1,335,000
		Right of Way (Permanent Public Access ESMT)	29,400	SF	\$ 25	\$ 735,000
		Utility Relocation Contingency	1	LS	\$ 600,000	\$ 600,000
		TOTAL ALIGNMENT 3 OPINION OF PROBABLE COST				\$ 5,299,149

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Georgetown Pike Footpath Feasibility Study**PRELIMINARY OPINION OF PROBABLE COST**

VDOT R&B SPEC #	ITEM NO.	ITEM DESCRIPTION	QTY	UNITS	UNIT PRICES	TOTAL ITEM PRICE
		General Items				\$ 493,575
513	100	Mobilization	1	LS	\$ 153,425	\$ 153,425
517	101	Construction Surveying	1	LS	\$ 60,000	\$ 60,000
301	111	Clearing and Grubbing	1.45	Acre	\$ 70,000	\$ 101,150
303	120	Regular Excavation	1,790	CY	\$ 100	\$ 179,000
		Drainage Items				\$ 350,000
510	42765	Drainage Lump Sum Estimate	1	EA	\$ 350,000	\$ 350,000
		Pavement Items				\$ 893,350
309	10128	Aggregate Base Material, Type I, #21B (4" subbase)	3,204	SY	\$ 75	\$ 240,300
315	10635	Aggregate Surface Course (3" trail surface in Great Falls Park)	-	SY	\$ 125	\$ -
390	61701	MGS1 Guardrail	3,449	LF	\$ 50	\$ 172,450
315	10642	Asphalt Concrete Pavement (trial surface on Georgetown Pike)	2,403	SY	\$ 200	\$ 480,600
		Erosion & Sediment Control Items				\$ 40,000
606	27327	Lump Sum E&S Estimate	1	EA	\$ 40,000	\$ 40,000
		Structure & Bridge Items				\$ 845,000
ATTD	13544	Pedestrian Truss Bridge and Foundation	169	LF	\$ 5,000	\$ 845,000
		Construction Cost Subtotal				\$ 2,621,925
		Contingency	30%	of construction cost		\$ 786,578
		CEI	18.5%	of construction cost		\$ 485,056
		TOTAL CONSTRUCTION ESTIMATE				\$ 3,893,559
		Engineering Design	12%	of construction cost		\$ 314,631
		Land Acquisition and Utilities Estimate				\$ 1,365,325
		Right of Way (Permanent Public Access ESMT)	34,613	SF	\$ 25	\$ 865,325
		Utility Relocation Contingency	1	LS	\$ 500,000	\$ 500,000
		TOTAL ALIGNMENT 4 OPINION OF PROBABLE COST				\$ 5,573,515

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