
Appendix C

Cost Estimate





LOWER BIG CREEK GREENWAY
OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND
AND CLEVELAND METROPARKS
TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS
APRIL 22, 2008

SECTION	DESCRIPTION	TRAIL LENGTH	UNIT	TOTAL COST
1	Lower Big Creek Greenway Trail			
	A. Valley Route			
	1. Valley Trail along Harvard Avenue to Jennings Road	4,050	LF	\$1,137,370.81
	2. Valley Trail along West 14th Street from Jennings Road to Calgary Park	3,090	LF	\$1,153,855.67
	3. Calgary Park Connector Trail	1,300	LF	\$486,375.79
	4. Valley Trail from the Calgary Park Connector Trail to the Metroparks Zoo Parking Lot	3,340	LF	\$1,948,365.26
	5. Valley Trail from Overlook in Zoo/Brookside Reservation to the Existing Trail at John Nagy BLVD	2,340	LF	\$318,533.62
	6. Valley Trail Underpass at Ridge Road	700	LF	\$138,817.00
	Subtotal	14,820		\$5,183,318.15
	B. Upland Route			
	1. Pearl Road to Harmody Park/Treadway Creek Trail Connection	6,586	LF	\$1,686,955.25
	A. Connector Trail to Scenic Overlook	130	LF	\$50,128.44
	B. Connector Trail to Treadway Creek Trail (NEORS D Access)	150	LF	\$46,459.10
	Subtotal	6,866	LF	\$1,783,542.79
	Total Lower Big Creek Greenway Trail	21,686	LF	\$6,966,860.94
2	Lower Big Creek Greenway Trail Ecological Restoration			
	A. Environmental Clean Up (Defer until more is known at each site)	1	LS	BY OTHERS
	B. Stream Restoration (Defer until watershed management strategy is developed)	16,544	LF	BY OTHERS
	C. Riparian Corridor Enhancement			
	1. Cuyahoga River to Jennings Road	4.13	AC	\$483,871.56
	2. Jennings Road to Pearl Road	20.71	AC	\$1,302,582.98
	3. Pearl Road to Fulton Parkway	14.26	AC	\$934,296.05
	4. Fulton Parkway to Ridge Road	24.58	AC	\$724,616.60
	Subtotal	63.68	AC	\$3,445,367.20
	D. Wetland Creation/Enhancement			
	1. Cuyahoga River to Jennings Road	0.00	AC	\$0.00
	2. Jennings Road to Pearl Road	0.95	AC	\$74,325.01
	3. Pearl Road to Fulton Parkway	4.56	AC	\$353,634.72
	4. Fulton Parkway to Ridge Road	1.27	AC	\$96,041.89
	Subtotal	6.78	AC	\$524,001.62
	Total Lower Big Creek Greenway Trail Ecological Restoration			\$3,969,368.81
	Grand Total Lower Big Creek Greenway Trail			\$10,936,229.75
	Note: This opinion of probable costs does not include property acquisition costs. Many options exist for property acquisitions and or property relocations for the proposed Trail and Greenway Redevelopment & Restoration Plan.			



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OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND
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VALLEY ROUTE - HARVARD AVENUE & WEST 14th TO JENNINGS FREEWAY
APRIL 22, 2008

ITEM	DESCRIPTION	VALLEY	TOTAL	UNIT	UNIT COST	TOTAL COST
1	Site Preparation/Demolition					
	A. Clearing and Grubbing	2.50	3	AC	\$4,500.00	\$11,250.00
	B. Construction Fencing	4,050	4,050	LF	\$2.00	\$8,100.00
	C. Miscellaneous Demolition	4,050	4,050	LS	\$1.00	\$4,050.00
	D. Saw Cut	2,694	2,694	LF	\$4.00	\$10,776.00
	E. Asphalt Road Repair	785	785	LF	\$33.00	\$25,905.00
	F. Concrete Curb Removal	2,330	2,330	LF	\$4.00	\$9,320.00
	G. Utility Relocations/Removal	1	1	LS	\$5,000.00	\$5,000.00
	H. Utility Adjustments	1	1	LS	\$5,000.00	\$5,000.00
	Subtotal					\$79,401.00
2	Earthwork					
	A. Excavation	2,021	2,021	CY	\$10.00	\$20,210.00
	B. Strip Topsoil & Stockpile	2,218	2,218	CY	\$20.00	\$44,360.00
	C. Replace Topsoil	789	789	CY	\$38.00	\$29,982.00
	Subtotal					\$94,552.00
3	Erosion Control					
	A. Silt Fence	4,050	4,050	LF	\$3.00	\$12,150.00
	B. Erosion Control Measures	4,050	4,050	EA	\$1.00	\$4,050.00
	Subtotal					\$16,200.00
4	Pavement					
	A. Subgrade Preparation	5,141	5,141	SY	\$2.00	\$10,282.00
	B. Asphalt Trail	2,111	2,111	SY	\$33.00	\$69,663.00
	C. Geogrid Fabric	5,141	5,141	SY	\$5.00	\$25,705.00
	D. Concrete Walk	18,640	18,640	SF	\$5.00	\$93,200.00
	E. Crosswalk Brick Paving	1,200	1,200	SF	\$15.00	\$18,000.00
	F. Curb Ramps	9	9	EA	\$2,128.00	\$19,152.00



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VALLEY ROUTE - HARVARD AVENUE & WEST 14th TO JENNINGS FREEWAY
APRIL 22, 2008

ITEM	DESCRIPTION	VALLEY	TOTAL	UNIT	UNIT COST	TOTAL COST
	G. Concrete Curb	2,330	2,330	LF	\$20.00	\$46,600.00
	H. Concrete Banding (2' w)	300	300	LF	\$80.00	\$24,000.00
	I. Brick Banding	4,660	4,660	SF	\$15.00	\$69,900.00
	Subtotal					\$376,502.00
5	Storm Sewers					
	A. 12" Culvert Pipe	125	125	EA	\$25.00	\$3,125.00
	B. Concrete 1/2 Head Wall 12" Pipe	8	8	EA	\$500.00	\$4,000.00
	C. Natural Stone Headwall	8	8	EA	\$1,500.00	\$12,000.00
	D. Rock Channel Protection	30	30	CY	\$100.00	\$3,000.00
	Subtotal					\$22,125.00
6	Amenities/Furnishings					
	A. Kiosks	2	2	EA	\$5,000.00	\$10,000.00
	B. Trail Signage	4,050	4,050	LF	\$1.00	\$4,050.00
	C. Street Signage Replacement	1	1	LS	\$2,500.00	\$2,500.00
	D. Rail Road Crossing @Grade (Rubber infill)	50	50	LF	\$100.00	\$5,000.00
	E. Street Lighting	16	16	LF	\$2,500.00	\$40,000.00
	Subtotal					\$61,550.00
7	Landscape					
	A. Trailside Seeding and Fine Grading	1,946	1,946	SY	\$2.00	\$3,892.00
	B. Top Soil Along Berms	789	789	CY	\$38.00	\$29,982.00
	C. Seeding Disturbed Areas	7,600	7,600	SY	\$1.50	\$11,400.00
	D. Street Trees	166	166	EA	\$500.00	\$83,000.00
	Subtotal					\$128,274.00
8	Environmental					
	A. Environmental Clean up	0	0		BY OTHERS	
	B. Stream Restoration/Enhancements	0	0		BY OTHERS	



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VALLEY ROUTE - HARVARD AVENUE & WEST 14th TO JENNINGS FREEWAY
APRIL 22, 2008

ITEM	DESCRIPTION	VALLEY	TOTAL	UNIT	UNIT COST	TOTAL COST
	C. Forest Restoration/Enhancement	2.75	2.75	acres	\$25,000.00	\$68,750.00
	D. Riparian Restoration/Enhancement	0.00	0.00	acres	\$25,000.00	\$0.00
	E. Wetland Enhancement	0.00	0.00	acres	\$35,046.25	\$0.00
	Subtotal					\$68,750.00
9	Construction Survey & Layout					
	A. Survey & Layout	4,050	4,050	LF	\$2.50	\$10,125.00
	B. Traffic Control & Maintenance	4,050	4,050	LS	\$2.00	\$8,100.00
	Subtotal					\$18,225.00
	TOTAL					\$865,579.00
	Contingency (20%)					\$173,115.80
	General Conditions (5%)					\$51,934.74
	Bonds & Insurances (3%)					\$31,160.84
	Mobilization/Demobilization (1.5%)					\$15,580.42
	GRAND TOTAL					\$1,137,370.81



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VALLEY ROUTE - WEST 14TH STREET TO CALGARY PARK TRAIL
APRIL 22, 2008

ITEM	DESCRIPTION	VALLEY	TOTAL	UNIT	UNIT COST	TOTAL COST
1	Site Preparation/Demolition					
	A. Clearing and Grubbing	3.55	4	AC	\$4,500.00	\$15,975.00
	B. Construction Fencing	3,090	3,090	LF	\$2.00	\$6,180.00
	C. Miscellaneous Demolition	5,190	5,190	LS	\$1.00	\$5,190.00
	D. Fence Demolition	1,416	1,416	LF	\$3.57	\$5,055.12
	Subtotal					\$32,400.12
2	Earthwork					
	A. Excavation	1,195	1,195	CY	\$10.00	\$11,950.00
	B. Strip Topsoil & Stockpile	2,861	2,861	CY	\$20.00	\$57,220.00
	C. Replace Topsoil	686	686	CY	\$38.00	\$26,068.00
	D. Resoil Brownfields (8.12 Acres)	6,239	6,239	CY	\$45.00	\$280,755.00
	Subtotal					\$375,993.00
3	Erosion Control					
	A. Silt Fence	3,090	3,090	LF	\$3.00	\$9,270.00
	B. Swale Matting Protection	2,060	2,060	SY	\$10.00	\$20,600.00
	C. Slope Matting Protection	3,433	3,433	SY	\$6.00	\$20,598.00
	D. Erosion Control Measures	3,090	3,090	EA	\$1.00	\$3,090.00
	Subtotal					\$53,558.00
4	Pavement					
	A. Subgrade Preparation	3,433	3,433	SY	\$2.00	\$6,866.00
	B. Asphalt Trail	3,433	3,433	SY	\$33.00	\$113,289.00
	C. Geogrid Fabric	3,433	3,433	SY	\$5.00	\$17,165.00
	D. Curb Ramps	2	2	EA	\$2,128.00	\$4,256.00
	Subtotal					\$141,576.00
5	Storm Sewers					
	A. 12" Culvert Pipe	8	8	EA	\$25.00	\$200.00



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VALLEY ROUTE - WEST 14TH STREET TO CALGARY PARK TRAIL
APRIL 22, 2008

ITEM	DESCRIPTION	VALLEY	TOTAL	UNIT	UNIT COST	TOTAL COST
	B. Concrete 1/2 Head Wall 12" Pipe	16	16	LS	\$500.00	\$8,000.00
	C. Natural Stone Headwall	16	16	EA	\$1,500.00	\$24,000.00
	D. Rock Channel Protection	60	60	EA	\$100.00	\$6,000.00
	Subtotal					\$38,200.00
6	Amenities/Furnishings					
	A. Kiosks	1	1	EA	\$5,000.00	\$5,000.00
	B. Fencing Along Riparian Corridor	1,416	1,416	LF	\$27.00	\$38,232.00
	C. Trail Signage	3,090	3,090	LF	\$1.00	\$3,090.00
	D. Timber Rail	165	165	LF	\$45.00	\$7,425.00
	Subtotal					\$53,747.00
7	Landscape					
	A. Trailside Seeding and Fine Grading	1,373	1,373	SY	\$2.00	\$2,746.00
	B. Top Soil Along Berms	687	687	CY	\$38.00	\$26,106.00
	C. Seeding Disturbed Areas	13,733	13,733	SY	\$1.50	\$20,599.50
	Subtotal					\$49,451.50
8	Environmental					
	A. Environmental Clean up	0	0		BY OTHERS	
	B. Stream Restoration/Enhancements	0	0		BY OTHERS	
	C. Forest Restoration/Enhancement	3.44	3.44	acres	\$25,000.00	\$86,000.00
	D. Riparian Restoration/Enhancement	0.00	0.00	acres	\$25,000.00	\$0.00
	E. Wetland Enhancement	0.95	0.95	acres	\$35,046.25	\$33,293.94
	Subtotal					\$119,293.94
9	Construction Survey & Layout					
	A. Survey & Layout	3,090	3,090	LF	\$2.50	\$7,725.00
	B. Traffic Control & Maintenance	3,090	3,090	LS	\$2.00	\$6,180.00
	Subtotal					\$13,905.00



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**VALLEY ROUTE - WEST 14TH STREET TO CALGARY PARK TRAIL
 APRIL 22, 2008**

ITEM	DESCRIPTION	VALLEY	TOTAL	UNIT	UNIT COST	TOTAL COST
	TOTAL					\$878,124.56
	Contingency (20%)					\$175,624.91
	General Conditions (5%)					\$52,687.47
	Bonds & Insurances (3%)					\$31,612.48
	Mobilization/Demobilization (1.5%)					\$15,806.24
	GRAND TOTAL					\$1,153,855.67



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CALGARY PARK TRAIL CONNECTION
APRIL 22, 2008

ITEM	DESCRIPTION	Calgary	TOTAL	UNIT	UNIT COST	TOTAL COST
1	Site Preparation/Demolition					
	A. Clearing and Grubbing	1.49	1.49	AC	\$4,500.00	\$6,705.00
	B. Construction Fencing	1,300	1,300	LF	\$2.00	\$2,600.00
	Subtotal					\$9,305.00
2	Earthwork					
	A. Excavation	5,028	5,028	CY	\$10.00	\$50,280.00
	B. Strip Topsoil & Stockpile	1,204	1,204	CY	\$20.00	\$24,080.00
	C. Replace Topsoil	867	867	CY	\$38.00	\$32,946.00
	Subtotal					\$107,306.00
3	Erosion Control					
	A. Silt Fence	1,300	1,300	LF	\$3.00	\$3,900.00
	B. Swale Matting Protection	1,733	1,733	SY	\$10.00	\$17,330.00
	C. Slope Matting Protection	1,445	1,445	SY	\$6.00	\$8,670.00
	D. Erosion Control Measures	1,300	1,300	EA	\$1.00	\$1,300.00
	Subtotal					\$31,200.00
4	Pavement					
	A. Subgrade Preparation	1,445	1,445	SY	\$2.00	\$2,890.00
	B. Asphalt Trail (10' wide)	1,445	1,445	SY	\$33.00	\$47,685.00
	C. Geogrid Fabric	1,445	1,445	SY	\$5.00	\$7,225.00
	Subtotal					\$57,800.00
5	Storm Sewers					
	A. 12" Culvert Pipe	6	6	EA	\$25.00	\$150.00
	B. Concrete 1/2 Head Wall 12" Pipe	12	12	LS	\$500.00	\$6,000.00
	C. Natural Stone Headwall	12	12	EA	\$1,500.00	\$18,000.00
	D. Rock Channel Protection	45	45	EA	\$100.00	\$4,500.00
	Subtotal					\$28,650.00



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CALGARY PARK TRAIL CONNECTION
APRIL 22, 2008

ITEM	DESCRIPTION	Calgary	TOTAL	UNIT	UNIT COST	TOTAL COST
6	Amenities/Furnishings					
	A. Kiosks	1	1	EA	\$5,000.00	\$5,000.00
	B. Bollards	2	2	EA	\$300.00	\$600.00
	C. Removable Bollards	1	1	EA	\$450.00	\$450.00
	D. Trail Signage	1,300	1,300	LF	\$1.00	\$1,300.00
	E. Timber Rail	1,950	1,950	LF	\$45.00	\$87,750.00
	Subtotal					\$95,100.00
7	Landscape					
	A. Trailside Seeding and Fine Grading	578	578	SY	\$2.00	\$1,156.00
	B. Top Soil Along Berms	289	289	CY	\$38.00	\$10,982.00
	C. Seeding Disturbed Areas	5,200	5,200	SY	\$1.50	\$7,800.00
	Subtotal					\$19,938.00
8	Environmental					
	A. Environmental Clean up	0	0	LS	BY OTHERS	
	B. Stream Restoration/Enhancements	0	0	LS	BY OTHERS	
	C. Forest Restoration/Enhancement	0.60	0.60	acres	\$25,000.00	\$15,000.00
	D. Riparian Restoration/Enhancement	0	0.00	acres	\$25,000.00	\$0.00
	E. Wetland Enhancement	0	0.00	acres	\$35,046.25	\$0.00
	Subtotal					\$15,000.00
9	Construction Survey & Layout					
	A. Survey & Layout	1,300	1,300	LF	\$2.50	\$3,250.00
	B. Traffic Control & Maintenance	1,300	1,300	LS	\$2.00	\$2,600.00
	Subtotal					\$5,850.00
	TOTAL					\$370,149.00
	Contingency (20%)					\$74,029.80
	General Conditions (5%)					\$22,208.94



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**CALGARY PARK TRAIL CONNECTION
 APRIL 22, 2008**

ITEM	DESCRIPTION	Calgary	TOTAL	UNIT	UNIT COST	TOTAL COST
	Bonds & Insurances (3%)					\$13,325.36
	Mobilization/Demobilization (1.5%)					\$6,662.68
	GRAND TOTAL					\$486,375.79



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VALLEY ROUTE - CALGARY PARK TO CLEVELAND METROPARKS ZOO TRAIL
APRIL 22, 2008

ITEM	DESCRIPTION	VALLEY	TOTAL	UNIT	UNIT COST	TOTAL COST
1	Site Preparation/Demolition					
	A. Clearing and Grubbing	3.83	4	AC	\$4,500.00	\$17,235.00
	B. Construction Fencing	3,340	3,340	LF	\$2.00	\$6,680.00
	C. Miscellaneous Demolition	5,610	5,610	LS	\$1.00	\$5,610.00
	D. Fence Demolition	1,531	1,531	LF	\$3.57	\$5,465.67
	Subtotal					\$34,990.67
2	Earthwork					
	A. Excavation	1,292	1,292	CY	\$10.00	\$12,920.00
	B. Strip Topsoil & Stockpile	3,093	3,093	CY	\$20.00	\$61,860.00
	C. Replace Topsoil	742	742	CY	\$38.00	\$28,196.00
	D. Borrow Material for Bridge Fill	5,456	5,456	CY	\$10.00	\$54,560.00
	E. Resoil Brownfields (8.12 Acres)	6,803	6,803	CY	\$45.00	\$306,135.00
	Subtotal					\$463,671.00
3	Erosion Control					
	A. Silt Fence	3,340	3,340	LF	\$3.00	\$10,020.00
	B. Swale Matting Protection	2,227	2,227	SY	\$10.00	\$22,270.00
	C. Slope Matting Protection	3,711	3,711	SY	\$6.00	\$22,266.00
	D. Erosion Control Measures	3,340	3,340	EA	\$1.00	\$3,340.00
	Subtotal					\$57,896.00
4	Pavement					
	A. Subgrade Preparation	3,711	3,711	SY	\$2.00	\$7,422.00
	B. Asphalt Trail	3,711	3,711	SY	\$33.00	\$122,463.00
	C. Geogrid Fabric	3,711	3,711	SY	\$5.00	\$18,555.00
	D. Curb Ramps	2	2	EA	\$2,128.00	\$4,256.00
	Subtotal					\$152,696.00
5	Storm Sewers					



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VALLEY ROUTE - CALGARY PARK TO CLEVELAND METROPARKS ZOO TRAIL
APRIL 22, 2008

ITEM	DESCRIPTION	VALLEY	TOTAL	UNIT	UNIT COST	TOTAL COST
	A. 12" Culvert Pipe	8	8	EA	\$25.00	\$200.00
	B. Concrete 1/2 Head Wall 12" Pipe	16	16	LS	\$500.00	\$8,000.00
	C. Natural Stone Headwall	16	16	EA	\$1,500.00	\$24,000.00
	D. Rock Channel Protection	60	60	EA	\$100.00	\$6,000.00
	Subtotal					\$38,200.00
6	Amenities/Furnishings					
	A. Pedestrian Bridge	285	285	LF	\$1,600.00	\$456,000.00
	B. Bridge Abutments Large	2	2	EA	\$25,000.00	\$50,000.00
	C. Kiosks	1	1	EA	\$5,000.00	\$5,000.00
	D. Fencing Along Riparian Corridor	1,531	1,531	LF	\$27.00	\$41,337.00
	E. Trail Signage	3,340	3,340	LF	\$1.00	\$3,340.00
	F. Timber Rail	165	165	LF	\$45.00	\$7,425.00
	G. Fencing/Railing at Underpass	239	239	LF	\$45.00	\$10,755.00
	Subtotal					\$573,857.00
7	Landscape					
	A. Trailside Seeding and Fine Grading	1,485	1,485	SY	\$2.00	\$2,970.00
	B. Top Soil Along Berms	742	742	CY	\$38.00	\$28,196.00
	C. Seeding Disturbed Areas	14,845	14,845	SY	\$1.50	\$22,267.50
	Subtotal					\$53,433.50
8	Environmental					
	A. Environmental Clean up	0	0	BY OTHERS		
	B. Stream Restoration/Enhancements	0	0	BY OTHERS		
	C. Forest Restoration/Enhancement	3.72	3.72	acres	\$25,000.00	\$93,000.00
	D. Riparian Restoration/Enhancement	0.00	0.00	acres	\$25,000.00	\$0.00
	E. Wetland Enhancement	0.00	0.00	acres	\$35,046.25	\$0.00
	Subtotal					\$93,000.00



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**VALLEY ROUTE - CALGARY PARK TO CLEVELAND METROPARKS ZOO TRAIL
 APRIL 22, 2008**

ITEM	DESCRIPTION	VALLEY	TOTAL	UNIT	UNIT COST	TOTAL COST
9	Construction Survey & Layout					
	A. Survey & Layout	3,340	3,340	LF	\$2.50	\$8,350.00
	B. Traffic Control & Maintenance	3,340	3,340	LS	\$2.00	\$6,680.00
	Subtotal					\$15,030.00
	TOTAL					\$1,482,774.17
	Contingency (20%)					\$296,554.83
	General Conditions (5%)					\$88,966.45
	Bonds & Insurances (3%)					\$53,379.87
	Mobilization/Demobilization (1.5%)					\$26,689.94
	GRAND TOTAL					\$1,948,365.26



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**BROOKSIDE RESERVATION & ZOO CONNECTOR TRAIL
 APRIL 22, 2008**

ITEM	DESCRIPTION	ZOO	TOTAL	UNIT	UNIT COST	TOTAL COST
1	Site Preparation/Demolition					
	A. Clearing and Grubbing	0.50	1	AC	\$4,500.00	\$2,250.00
	B. Construction Fencing	2,430	2,430	LF	\$2.00	\$4,860.00
	C. Miscellaneous Demolition	14,760	14,760	LS	\$1.00	\$14,760.00
	Subtotal					\$21,870.00
2	Earthwork					
	A. Excavation	321	321	CY	\$10.00	\$3,210.00
	B. Strip Topsoil & Stockpile	300	300	CY	\$20.00	\$6,000.00
	C. Replace Topsoil	156	156	CY	\$38.00	\$5,928.00
	Subtotal					\$15,138.00
3	Erosion Control					
	A. Silt Fence	2,340	2,340	LF	\$3.00	\$7,020.00
	B. Swale Matting Protection	467	467	SY	\$10.00	\$4,670.00
	C. Slope Matting Protection	393	393	SY	\$6.00	\$2,358.00
	D. Erosion Control Measures	2,340	2,340	EA	\$1.00	\$2,340.00
	Subtotal					\$16,388.00
4	Pavement					
	A. Subgrade Preparation	2,417	2,417	SY	\$2.00	\$4,834.00
	B. Asphalt Trail	390	390	SY	\$33.00	\$12,870.00
	C. Geogrid Fabric	390	390	SY	\$5.00	\$1,950.00
	D. Widen Concrete Walk	1,476	1,476	LF	\$36.00	\$53,136.00
	E. Crosswalk Marking	60	60	LF	\$2.50	\$150.00
	F. Curb Ramps	2	2	EA	\$2,128.00	\$4,256.00
	G. Sidewalk (10' wide)	164	164	LF	\$50.00	\$8,200.00
	Subtotal					\$85,396.00
5	Storm Sewers					



LOWER BIG CREEK GREENWAY
OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND
AND CLEVELAND METROPARKS
TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS

BROOKSIDE RESERVATION & ZOO CONNECTOR TRAIL
APRIL 22, 2008

ITEM	DESCRIPTION	ZOO	TOTAL	UNIT	UNIT COST	TOTAL COST
	A. 12" Culvert Pipe	3	3	EA	\$25.00	\$75.00
	B. Concrete 1/2 Head Wall 12" Pipe	6	6	LS	\$500.00	\$3,000.00
	C. Natural Stone Headwall	6	6	EA	\$1,500.00	\$9,000.00
	D. Rock Channel Protection	22	22	EA	\$100.00	\$2,200.00
	Subtotal					\$14,275.00
6	Amenities/Furnishings					
	A. Kiosks	2	2	EA	\$5,000.00	\$10,000.00
	B. Trail Signage	2,340	2,340	LF	\$1.00	\$2,340.00
	C. Timber Rail	130	130	LF	\$45.00	\$5,850.00
	Subtotal					\$18,190.00
7	Landscape					
	A. Trailside Seeding and Fine Grading	1,213	1,213	SY	\$2.00	\$2,426.00
	B. Seeding Disturbed Areas	9,129	9,129	SY	\$1.50	\$13,693.50
	Subtotal					\$16,119.50
8	Environmental					
	A. Environmental Clean up	0	0		BY OTHERS	
	B. Stream Restoration/Enhancements	0	0		BY OTHERS	
	C. Riparian Restoration/Enhancement	0	0	acres	\$25,000.00	\$0.00
	D. Wetland Enhancement	1	1	acres	\$35,046.25	\$44,508.74
	Subtotal					\$44,508.74
9	Construction Survey & Layout					
	A. Survey & Layout	2,340	2,340	LF	\$2.50	\$5,850.00
	B. Traffic Control & Maintenance	2,340	2,340	LS	\$2.00	\$4,680.00
	Subtotal					\$10,530.00
	TOTAL					\$242,415.24
	Contingency (20%)					\$48,483.05



**LOWER BIG CREEK GREENWAY
 OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND
 AND CLEVELAND METROPARKS
 TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS**

**BROOKSIDE RESERVATION & ZOO CONNECTOR TRAIL
 APRIL 22, 2008**

ITEM	DESCRIPTION	ZOO	TOTAL	UNIT	UNIT COST	TOTAL COST
	General Conditions (5%)					\$14,544.91
	Bonds & Insurances (3%)					\$8,726.95
	Mobilization/Demobilization (1.5%)					\$4,363.47
	GRAND TOTAL					\$318,533.62



**LOWER BIG CREEK GREENWAY
 OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND
 AND CLEVELAND METROPARKS
 TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS**

**RIDGE ROAD UNDERPASS TRAIL
 APRIL 22, 2008**

ITEM	DESCRIPTION	Ridge Road	TOTAL	UNIT	UNIT COST	TOTAL COST
1	Site Preparation/Demolition					
	A. Clearing and Grubbing	0.62	1	AC	\$4,500.00	\$2,790.00
	B. Construction Fencing	700	700	LF	\$2.00	\$1,400.00
	C. Fence Demolition	780	780	LF	\$3.57	\$2,784.60
	Subtotal					\$6,974.60
2	Earthwork					
	A. Excavation	313	313	CY	\$10.00	\$3,130.00
	B. Strip Topsoil & Stockpile	500	500	CY	\$20.00	\$10,000.00
	C. Replace Topsoil	360	360	CY	\$38.00	\$13,680.00
	Subtotal					\$26,810.00
3	Erosion Control					
	A. Silt Fence	700	700	LF	\$3.00	\$2,100.00
	B. Swale Matting Protection	313	313	SY	\$10.00	\$3,130.00
	C. Slope Matting Protection	389	389	SY	\$6.00	\$2,334.00
	D. Erosion Control Measures	700	700	EA	\$1.00	\$700.00
	Subtotal					\$8,264.00
4	Pavement					
	A. Subgrade Preparation	600	600	SY	\$2.00	\$1,200.00
	B. Asphalt Trail	600	600	SY	\$33.00	\$19,800.00
	C. Geogrid Fabric	600	600	SY	\$5.00	\$3,000.00
	D. Widen Concrete Walk	100	100	LF	\$36.00	\$3,600.00
	E. Crosswalk Marking	60	60	LF	\$2.50	\$150.00
	F. Curb Ramps	2	2	EA	\$2,128.00	\$4,256.00
	Subtotal					\$32,006.00
5	Storm Sewers					
	A. 12" Culvert Pipe	4	4	EA	\$25.00	\$100.00



LOWER BIG CREEK GREENWAY
OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND
AND CLEVELAND METROPARKS
TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS

RIDGE ROAD UNDERPASS TRAIL
APRIL 22, 2008

ITEM	DESCRIPTION	Ridge Road	TOTAL	UNIT	UNIT COST	TOTAL COST
	B. Concrete 1/2 Head Wall 12" Pipe	8	8	LS	\$500.00	\$4,000.00
	C. Natural Stone Headwall	8	8	EA	\$1,500.00	\$12,000.00
	D. Rock Channel Protection	30	30	EA	\$100.00	\$3,000.00
	Subtotal					\$19,100.00
6	Amenities/Furnishings					
	A. Trail Signage	700	700	LF	\$1.00	\$700.00
	Subtotal					\$700.00
7	Landscape					
	A. Trailside Seeding and Fine Grading	240	240	SY	\$2.00	\$480.00
	B. Top Soil Along Berms	120	120	CY	\$38.00	\$4,560.00
	C. Seeding Disturbed Areas	2,400	2,400	SY	\$1.50	\$3,600.00
	Subtotal					\$8,640.00
8	Environmental					
	A. Environmental Clean up	0	0		BY OTHERS	
	B. Stream Restoration/Enhancements	0	0		BY OTHERS	
	C. Riparian Restoration/Enhancement	0	0	acres	\$25,000.00	\$0.00
	D. Wetland Enhancement	0	0	acres	\$35,046.25	\$0.00
	Subtotal					\$0.00
9	Construction Survey & Layout					
	A. Survey & Layout	700	700	LF	\$2.50	\$1,750.00
	B. Traffic Control & Maintenance	700	700	LS	\$2.00	\$1,400.00
	Subtotal					\$3,150.00
	TOTAL					\$105,644.60
	Contingency (20%)					\$21,128.92
	General Conditions (5%)					\$6,338.68
	Bonds & Insurances (3%)					\$3,803.21



**LOWER BIG CREEK GREENWAY
 OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND
 AND CLEVELAND METROPARKS
 TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS**

**RIDGE ROAD UNDERPASS TRAIL
 APRIL 22, 2008**

ITEM	DESCRIPTION	Ridge Road	TOTAL	UNIT	UNIT COST	TOTAL COST
	Mobilization/Demobilization (1.5%)					\$1,901.60
	GRAND TOTAL					\$138,817.00



LOWER BIG CREEK GREENWAY
OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND
AND CLEVELAND METROPARKS
TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS

UPLAND ROUTE (SHEET 1)
APRIL 22, 2008

ITEM	DESCRIPTION	UPLAND	TOTAL	UNIT	UNIT COST	TOTAL COST
1	Site Preparation/Demolition					
	A. Clearing and Grubbing	3.09	3	AC	\$4,500.00	\$13,905.00
	B. Construction Fencing	6,586	6,586	LF	\$2.00	\$13,172.00
	Subtotal					\$27,077.00
2	Earthwork					
	A. Excavation	1,041	1,041	CY	\$10.00	\$10,410.00
	B. Strip Topsoil & Stockpile	2,493	2,493	CY	\$20.00	\$49,860.00
	C. Replace Topsoil	1,895	1,895	CY	\$38.00	\$72,010.00
	D. Resoil Brownfields	7,700	7,700	CY	\$45.00	\$346,500.00
	Subtotal					\$478,780.00
3	Erosion Control					
	A. Silt Fence	6,586	6,586	LF	\$3.00	\$19,758.00
	B. Swale Matting Protection	4,391	4,391	SY	\$10.00	\$43,910.00
	C. Slope Matting Protection	3,659	3,659	SY	\$6.00	\$21,954.00
	D. Erosion Control Measures	6,586	6,586	EA	\$1.00	\$6,586.00
	Subtotal					\$92,208.00
4	Pavement					
	A. Subgrade Preparation	2,991	2,991	SY	\$2.00	\$5,982.00
	B. Asphalt Trail	2,991	2,991	SY	\$33.00	\$98,703.00
	C. Geogrid Fabric	2,991	2,991	SY	\$5.00	\$14,955.00
	D. Widen Concrete Walk	530	530	LF	\$36.00	\$19,080.00
	E. Crosswalk Marking	60	60	LF	\$2.50	\$150.00
	F. Curb Ramps	2	2	EA	\$2,128.00	\$4,256.00
	G. Sidewalk (10' wide)	10	10	LF	\$50.00	\$500.00
	Subtotal					\$143,626.00
5	Storm Sewers					



LOWER BIG CREEK GREENWAY
OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND
AND CLEVELAND METROPARKS
TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS

UPLAND ROUTE (SHEET 1)
APRIL 22, 2008

ITEM	DESCRIPTION	UPLAND	TOTAL	UNIT	UNIT COST	TOTAL COST
	A. 12" Culvert Pipe	6	6	EA	\$25.00	\$150.00
	B. Concrete 1/2 Head Wall 12" Pipe	12	12	LS	\$500.00	\$6,000.00
	C. Natural Stone Headwall	12	12	EA	\$1,500.00	\$18,000.00
	D. Rock Channel Protection	45	45	EA	\$100.00	\$4,500.00
	Subtotal					\$28,650.00
6	Amenities/Furnishings					
	A. Pedestrian Bridge	135	135	LF	\$1,600.00	\$216,000.00
	B. Bridge Abutments Large	2	2	EA	\$25,000.00	\$50,000.00
	C. Trail Signage	6,586	6,586	LF	\$1.00	\$6,586.00
	Subtotal					\$272,586.00
7	Landscape					
	A. Trailside Seeding and Fine Grading	1,196	1,196	SY	\$2.00	\$2,392.00
	B. Top Soil Along Berms	598	598	CY	\$38.00	\$22,724.00
	C. Seeding Disturbed Areas	10,768	10,768	SY	\$1.50	\$16,152.00
	Subtotal					\$41,268.00
8	Environmental					
	A. Environmental Clean up	0	0		BY OTHERS	
	B. Stream Restoration/Enhancements	0	0		BY OTHERS	
	C. Forest Restoration/Enhancement	3.40	3.40	acres	\$25,000.00	\$85,000.00
	D. Riparian Restoration/Enhancement	3.40	3.40	acres	\$25,000.00	\$85,000.00
	E. Wetland Enhancement	0	0	acres	\$35,046.25	\$0.00
	Subtotal					\$170,000.00
9	Construction Survey & Layout					
	A. Survey & Layout	6,586	6,586	LF	\$2.50	\$16,465.00
	B. Traffic Control & Maintenance	6,586	6,586	LS	\$2.00	\$13,172.00
	Subtotal					\$29,637.00

LOWER BIG CREEK GREENWAY
OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND
AND CLEVELAND METROPARKS
TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS



UPLAND ROUTE (SHEET 1)
APRIL 22, 2008

ITEM	DESCRIPTION	UPLAND	TOTAL	UNIT	UNIT COST	TOTAL COST
	TOTAL					\$1,283,832.00
	Contingency (20%)					\$256,766.40
	General Conditions (5%)					\$77,029.92
	Bonds & Insurances (3%)					\$46,217.95
	Mobilization/Demobilization (1.5%)					\$23,108.98
	GRAND TOTAL					\$1,686,955.25



**LOWER BIG CREEK GREENWAY
 OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND
 AND CLEVELAND METROPARKS
 TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS**

**OVERLOOK
 APRIL 22, 2008**

ITEM	DESCRIPTION	OVERLOOK	TOTAL	UNIT	UNIT COST	TOTAL COST
1	Site Preparation/Demolition					
	A. Clearing and Grubbing	0.10	0	AC	\$4,500.00	\$450.00
	B. Construction Fencing	130	130	LF	\$2.00	\$260.00
	Subtotal					\$710.00
2	Earthwork					
	A. Excavation	101	101	CY	\$10.00	\$1,010.00
	B. Strip Topsoil & Stockpile	72	72	CY	\$20.00	\$1,440.00
	C. Replace Topsoil	29	29	CY	\$38.00	\$1,102.00
	Subtotal					\$3,552.00
3	Erosion Control					
	A. Silt Fence	130	130	LF	\$3.00	\$390.00
	B. Swale Matting Protection	87	87	SY	\$10.00	\$870.00
	C. Slope Matting Protection	75	75	SY	\$6.00	\$450.00
	D. Erosion Control Measures	130	130	EA	\$1.00	\$130.00
	Subtotal					\$1,840.00
4	Pavement					
	A. Subgrade Preparation	144	144	SY	\$2.00	\$288.00
	B. Asphalt Trail	144	144	SY	\$33.00	\$4,752.00
	C. Geogrid Fabric	144	144	SY	\$5.00	\$720.00
	Subtotal					\$5,760.00
5	Storm Sewers					
	A. 12" Culvert Pipe	1	1	EA	\$25.00	\$25.00
	B. Concrete 1/2 Head Wall 12" Pipe	2	2	LS	\$500.00	\$1,000.00
	C. Natural Stone Headwall	2	2	EA	\$1,500.00	\$3,000.00
	D. Rock Channel Protection	7	7	EA	\$100.00	\$700.00
	Subtotal					\$4,725.00



**LOWER BIG CREEK GREENWAY
 OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND
 AND CLEVELAND METROPARKS
 TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS**

**OVERLOOK
 APRIL 22, 2008**

ITEM	DESCRIPTION	OVERLOOK	TOTAL	UNIT	UNIT COST	TOTAL COST
6	Amenities/Furnishings					
	A. Kiosks	1	1	EA	\$5,000.00	\$5,000.00
	B. Trail Signage	130	130	LF	\$1.00	\$130.00
	C. Timber Rail	130	130	EA	\$45.00	\$5,850.00
	D. Overlook Structure	1	1	SF	\$5,000.00	\$5,000.00
	E. Bench	2	2	EA	\$1,500.00	\$3,000.00
	Subtotal					\$18,980.00
7	Landscape					
	A. Trailside Seeding and Fine Grading	231	231	SY	\$2.00	\$462.00
	B. Top Soil Along Berms	29	29	CY	\$38.00	\$1,102.00
	C. Seeding Disturbed Areas	289	289	SY	\$1.50	\$433.50
	Subtotal					\$1,997.50
8	Environmental					
	A. Environmental Clean up	0	0		BY OTHERS	
	B. Stream Restoration/Enhancements	0	0		BY OTHERS	
	C. Forest Restoration/Enhancement	0.00	0.00	acres	\$25,000.00	\$0.00
	D. Riparian Restoration/Enhancement	0.00	0.00	acres	\$25,000.00	\$0.00
	E. Wetland Enhancement	0	0	acres	\$35,046.25	\$0.00
	Subtotal					\$0.00
9	Construction Survey & Layout					
	A. Survey & Layout	130	130	LF	\$2.50	\$325.00
	B. Traffic Control & Maintenance	130	130	LS	\$2.00	\$260.00
	Subtotal					\$585.00
	TOTAL					\$38,149.50
	Contingency (20%)					\$7,629.90
	General Conditions (5%)					\$2,288.97



**LOWER BIG CREEK GREENWAY
 OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND
 AND CLEVELAND METROPARKS
 TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS**

OVERLOOK						
APRIL 22, 2008						
ITEM	DESCRIPTION	OVERLOOK	TOTAL	UNIT	UNIT COST	TOTAL COST
	Bonds & Insurances (3%)					\$1,373.38
	Mobilization/Demobilization (1.5%)					\$686.69
	GRAND TOTAL					\$50,128.44



LOWER BIG CREEK GREENWAY
OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND
AND CLEVELAND METROPARKS
TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS

TREADWAY CREEK CONNECTOR TRAIL (NEORS D ACCESS)
APRIL 22, 2008

ITEM	DESCRIPTION	TREADWAY	TOTAL	UNIT	UNIT COST	TOTAL COST
1	Site Preparation/Demolition					
	A. Clearing and Grubbing	0.20	0.20	AC	\$4,500.00	\$900.00
	B. Construction Fencing	150	150	LF	\$2.00	\$300.00
	Subtotal					\$1,200.00
2	Earthwork					
	A. Excavation	232	232	CY	\$10.00	\$2,320.00
	B. Strip Topsoil & Stockpile	166	166	CY	\$20.00	\$3,320.00
	C. Replace Topsoil	66	66	CY	\$38.00	\$2,508.00
	Subtotal					\$8,148.00
3	Erosion Control					
	A. Silt Fence	150	150	LF	\$3.00	\$450.00
	B. Swale Matting Protection	100	100	SY	\$10.00	\$1,000.00
	C. Slope Matting Protection	85	85	SY	\$6.00	\$510.00
	D. Erosion Control Measures	150	150	EA	\$1.00	\$150.00
	Subtotal					\$2,110.00
4	Pavement					
	A. Subgrade Preparation	250	250	SY	\$2.00	\$500.00
	B. Asphalt Trail	250	250	SY	\$33.00	\$8,250.00
	C. Geogrid Fabric	250	250	SY	\$5.00	\$1,250.00
	D. Sidewalk (10' wide)	20	20	LF	\$50.00	\$1,000.00
	Subtotal					\$11,000.00
5	Storm Sewers					
	A. 12" Culvert Pipe	1	1	EA	\$25.00	\$25.00
	B. Concrete 1/2 Head Wall 12" Pipe	2	2	LS	\$500.00	\$1,000.00



LOWER BIG CREEK GREENWAY
OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND
AND CLEVELAND METROPARKS
TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS

TREADWAY CREEK CONNECTOR TRAIL (NEORS D ACCESS)
APRIL 22, 2008

ITEM	DESCRIPTION	TREADWAY	TOTAL	UNIT	UNIT COST	TOTAL COST
	C. Natural Stone Headwall	2	2	EA	\$1,500.00	\$3,000.00
	D. Rock Channel Protection	7	7	EA	\$100.00	\$700.00
	Subtotal					\$4,725.00
6	Amenities/Furnishings					
	A. Bollards	2	2	EA	\$300.00	\$600.00
	B. Removable Bollards	1	1	EA	\$450.00	\$450.00
	C. Trail Signage	150	150	LF	\$1.00	\$150.00
	D. Timber Gate	1	1	EA	\$4,500.00	\$4,500.00
	Subtotal					\$5,700.00
7	Landscape					
	A. Trailside Seeding and Fine Grading	400	400	SY	\$2.00	\$800.00
	B. Seeding Disturbed Areas	666	666	SY	\$1.50	\$999.00
	Subtotal					\$1,799.00
8	Environmental					
	A. Environmental Clean up	0	0	LS	BY OTHERS	
	B. Stream Restoration/Enhancements	0	0	LS	BY OTHERS	
	C. Riparian Restoration/Enhancement	0	0	acres	\$25,000.00	\$0.00
	D. Wetland Enhancement	0	0	acres	\$35,046.25	\$0.00
	Subtotal					\$0.00
9	Construction Survey & Layout					
	A. Survey & Layout	150	150	LF	\$2.50	\$375.00
	B. Traffic Control & Maintenance	150	150	LS	\$2.00	\$300.00
	Subtotal					\$675.00
	TOTAL					\$35,357.00



**LOWER BIG CREEK GREENWAY
 OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND
 AND CLEVELAND METROPARKS
 TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS**

**TREADWAY CREEK CONNECTOR TRAIL (NEORSD ACCESS)
 APRIL 22, 2008**

ITEM	DESCRIPTION	TREADWAY	TOTAL	UNIT	UNIT COST	TOTAL COST
	Contingency (20%)					\$7,071.40
	General Conditions (5%)					\$2,121.42
	Bonds & Insurances (3%)					\$1,272.85
	Mobilization/Demobilization (1.5%)					\$636.43
	GRAND TOTAL					\$46,459.10



LOWER BIG CREEK GREENWAY
OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND
AND CLEVELAND METROPARKS
TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS

RIPARIAN CORRIDOR ENHANCEMENTS CUYAHOGA RIVER TO JENNINGS ROAD
APRIL 22, 2008

ITEM	DESCRIPTION	TOTAL	UNIT	UNIT COST	TOTAL COST
1	Site Preparation/Demolition				
	A. Clearing and Grubbing	4.13	AC	\$1,500.00	\$6,195.00
	B. Miscellaneous Demolition	1	LS	\$500.00	\$500.00
	C. Fence Fabric Demolition	6,156	LF	\$2.85	\$17,544.60
	D. Fence Post & Footer Removal	616	EA	\$17.85	\$10,995.60
	Subtotal				\$35,235.20
2	Earthwork/Erosion Control				
	A. Excavation/Subgrade Prep	6,156	SY	\$1.00	\$6,156.00
	B. Silt Fence	6,156	LF	\$3.00	\$18,468.00
	Subtotal				\$24,624.00
3	Amenities/Furnishings				
	A. Gates/Access Control	6	EA	\$500.00	\$3,000.00
	B. Fencing	6,156	LF	\$27.00	\$166,212.00
	Subtotal				\$169,212.00
4	Environmental				
	A. Riparian Restoration/Enhancement	4.13	ACRES	\$25,000.00	\$103,250.00
	B. Seeding Disturbed Areas	19,844	SY	\$1.50	\$29,766.00
	Subtotal				\$133,016.00
5	Construction Survey & Layout				
	A. Survey & Layout	6156	LF	\$1.00	\$6,156.00
	Subtotal				\$6,156.00
	TOTAL				\$368,243.20
	Contingency (20%)				\$73,648.64
	General Conditions (5%)				\$22,094.59
	Bonds & Insurances (3%)				\$13,256.76
	Mobilization/Demobilization (1.5%)				\$6,628.38
	GRAND TOTAL				\$483,871.56



LOWER BIG CREEK GREENWAY
OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND
AND CLEVELAND METROPARKS
TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS

RIPARIAN CORRIDOR ENHANCEMENTS JENNINGS ROAD TO PEARL ROAD
APRIL 22, 2008

ITEM	DESCRIPTION	TOTAL	UNIT	UNIT COST	TOTAL COST
1	Site Preparation/Demolition				
	A. Clearing and Grubbing	20.71	AC	\$1,500.00	\$31,065.00
	B. Miscellaneous Demolition	1	LS	\$2,500.00	\$2,500.00
	C. Fence Fabric Demolition	5259	LF	\$2.85	\$14,988.15
	D. Fence Post & Footer Removal	526	EA	\$17.85	\$9,389.10
	Subtotal				\$57,942.25
2	Earthwork/Erosion Control				
	A. Excavation/Subgrade Prep	100236	SY	\$1.00	\$100,236.00
	B. Silt Fence	5259	LF	\$3.00	\$15,777.00
	Subtotal				\$116,013.00
3	Amenities/Furnishings				
	A. Gates/Access Control	4	EA	\$500.00	\$2,000.00
	B. Fencing	5259	LF	\$27.00	\$141,993.00
	Subtotal				\$143,993.00
4	Environmental				
	A. Riparian Restoration/Enhancement	20.71	ACRES	\$25,000.00	\$517,750.00
	B. Seeding Disturbed Areas	100,236	SY	\$1.50	\$150,354.00
	Subtotal				\$668,104.00
5	Construction Survey & Layout				
	A. Survey & Layout	5259	LF	\$1.00	\$5,259.00
	Subtotal				\$5,259.00
	TOTAL				\$991,311.25
	Contingency (20%)				\$198,262.25
	General Conditions (5%)				\$59,478.68
	Bonds & Insurances (3%)				\$35,687.21
	Mobilization/Demobilization (1.5%)				\$17,843.60
	GRAND TOTAL				\$1,302,582.98



LOWER BIG CREEK GREENWAY
OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND
AND CLEVELAND METROPARKS
TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS

RIPARIAN CORRIDOR ENHANCEMENTS PEARL ROAD TO FULTON PARKWAY
APRIL 22, 2008

ITEM	DESCRIPTION	TOTAL	UNIT	UNIT COST	TOTAL COST
1	Site Preparation/Demolition				
	A. Clearing and Grubbing	14.26	AC	\$1,500.00	\$21,390.00
	B. Miscellaneous Demolition	1	LS	\$3,000.00	\$3,000.00
	C. Fence Fabric Demolition	5636	LF	\$2.85	\$16,062.60
	D. Fence Post & Footer Removal	564	EA	\$17.85	\$10,067.40
	Subtotal				\$50,520.00
2	Earthwork/Erosion Control				
	A. Excavation/Subgrade Prep	5636	SY	\$1.00	\$5,636.00
	B. Silt Fence	5636	LF	\$3.00	\$16,908.00
	Subtotal				\$22,544.00
3	Amenities/Furnishings				
	A. Gates/Access Control	6	EA	\$500.00	\$3,000.00
	B. Fencing	5636	LF	\$27.00	\$152,172.00
	Subtotal				\$155,172.00
4	Environmental				
	A. Riparian Restoration/Enhancement	14.26	ACRES	\$25,000.00	\$356,500.00
	B. Seeding Disturbed Areas	80,440	SY	\$1.50	\$120,660.00
	Subtotal				\$477,160.00
5	Construction Survey & Layout				
	A. Survey & Layout	5636	LF	\$1.00	\$5,636.00
	Subtotal				\$5,636.00
	TOTAL				\$711,032.00
	Contingency (20%)				\$142,206.40
	General Conditions (5%)				\$42,661.92
	Bonds & Insurances (3%)				\$25,597.15
	Mobilization/Demobilization (1.5%)				\$12,798.58
	GRAND TOTAL				\$934,296.05



LOWER BIG CREEK GREENWAY
OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND
AND CLEVELAND METROPARKS
TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS

RIPARIAN CORRIDOR ENHANCEMENTS FULTON PARKWAY TO RIDGE ROAD
APRIL 22, 2008

ITEM	DESCRIPTION	TOTAL	UNIT	UNIT COST	TOTAL COST
1	Site Preparation/Demolition				
	A. Clearing and Grubbing	24.58	AC	\$1,500.00	\$36,870.00
	B. Miscellaneous Demolition	1	LS	\$500.00	\$500.00
	C. Fence Fabric Demolition	10778	LF	\$2.85	\$30,717.30
	D. Fence Post & Footer Removal	1,078	EA	\$17.85	\$19,242.30
	Subtotal				\$87,329.60
2	Earthwork/Erosion Control				
	A. Excavation/Subgrade Prep	10778	SY	\$1.00	\$10,778.00
	B. Silt Fence	5389	LF	\$3.00	\$16,167.00
	Subtotal				\$26,945.00
3	Amenities/Furnishings				
	A. Gates/Access Control	10	EA	\$500.00	\$5,000.00
	B. Fencing	10778	LF	\$27.00	\$291,006.00
	Subtotal				\$296,006.00
4	Environmental				
	A. Riparian Restoration & Enhancement	8.11	ACRES	\$5,000.00	\$40,550.00
	B. Riparian Enhancement	16.47	ACRES	\$5,000.00	\$82,350.00
	C. Seeding Disturbed Areas	5,000	SY	\$1.50	\$7,500.00
	Subtotal				\$130,400.00
5	Construction Survey & Layout				
	A. Survey & Layout	10778	LF	\$1.00	\$10,778.00
	Subtotal				\$10,778.00
	TOTAL				\$551,458.60
	Contingency (20%)				\$110,291.72
	General Conditions (5%)				\$33,087.52
	Bonds & Insurances (3%)				\$19,852.51
	Mobilization/Demobilization (1.5%)				\$9,926.25
	GRAND TOTAL				\$724,616.60



LOWER BIG CREEK GREENWAY
OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND
AND CLEVELAND METROPARKS
TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS

WETLAND CREATION & ENHANCEMENT PEARL ROAD TO FULTON PARKWAY
APRIL 22, 2008

ITEM	DESCRIPTION	TOTAL	UNIT	UNIT COST	TOTAL COST
1	Site Preparation/Demolition				
	A. Clearing and Grubbing	0.95	AC	\$4,500.00	\$4,275.00
	B. Miscellaneous Demolition	1	LS	\$1,000.00	\$1,000.00
	Subtotal				\$5,275.00
2	Earthwork/Erosion Control				
	A. Excavation/Subgrade Prep	4598	SY	\$1.00	\$4,598.00
	B. Silt Fence	500	LF	\$3.00	\$1,500.00
	Subtotal				\$6,098.00
4	Environmental				
	A. Wetland Restoration/Enhancement	0.95	ACRES	\$35,046.25	\$33,293.94
	B. Seeding Disturbed Areas	4,598	SY	\$1.50	\$6,897.00
	Subtotal				\$40,190.94
5	Construction Survey & Layout				
	A. Survey & Layout	1	LS	\$5,000.00	\$5,000.00
	Subtotal				\$5,000.00
	TOTAL				\$56,563.94
	Contingency (20%)				\$11,312.79
	General Conditions (5%)				\$3,393.84
	Bonds & Insurances (3%)				\$2,036.30
	Mobilization/Demobilization (1.5%)				\$1,018.15
	GRAND TOTAL				\$74,325.01



LOWER BIG CREEK GREENWAY
OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND
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TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS

WETLAND CREATION & ENHANCEMENT PEARL ROAD TO FULTON PARKWAY
APRIL 22, 2008

ITEM	DESCRIPTION	TOTAL	UNIT	UNIT COST	TOTAL COST
1	Site Preparation/Demolition				
	A. Clearing and Grubbing	4.56	AC	\$4,500.00	\$20,520.00
	B. Miscellaneous Demolition	1	LS	\$5,000.00	\$5,000.00
	Subtotal				\$25,520.00
2	Earthwork/Erosion Control				
	A. Excavation/Subgrade Prep	22087	SY	\$1.00	\$22,087.00
	B. Silt Fence	2500	LF	\$3.00	\$7,500.00
	Subtotal				\$29,587.00
4	Environmental				
	A. Wetland Restoration/Enhancement	4.56	ACRES	\$35,046.25	\$159,810.90
	B. Seeding Disturbed Areas	22,807	SY	\$1.50	\$34,210.50
	Subtotal				\$194,021.40
5	Construction Survey & Layout				
	A. Survey & Layout	1	LS	\$20,000.00	\$20,000.00
	Subtotal				\$20,000.00
	TOTAL				\$269,128.40
	Contingency (20%)				\$53,825.68
	General Conditions (5%)				\$16,147.70
	Bonds & Insurances (3%)				\$9,688.62
	Mobilization/Demobilization (1.5%)				\$4,844.31
	GRAND TOTAL				\$353,634.72



**LOWER BIG CREEK GREENWAY
 OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND
 AND CLEVELAND METROPARKS
 TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS**

**WETLAND CREATION & ENHANCEMENT FULTON PARKWAY TO RIDGE ROAD
 APRIL 22, 2008**

ITEM	DESCRIPTION	TOTAL	UNIT	UNIT COST	TOTAL COST
1	Site Preparation/Demolition				
	A. Clearing and Grubbing	1.27	AC	\$4,500.00	\$5,715.00
	B. Miscellaneous Demolition	1	LS	\$1,000.00	\$1,000.00
	Subtotal				\$6,715.00
2	Earthwork/Erosion Control				
	A. Excavation/Subgrade Prep	6147	SY	\$1.00	\$6,147.00
	B. Silt Fence	500	LF	\$3.00	\$1,500.00
	Subtotal				\$7,647.00
4	Environmental				
	A. Wetland Restoration/Enhancement	1.27	ACRES	\$35,046.25	\$44,508.74
	B. Seeding Disturbed Areas	6,147	SY	\$1.50	\$9,220.50
	Subtotal				\$53,729.24
5	Construction Survey & Layout				
	A. Survey & Layout	1	LS	\$5,000.00	\$5,000.00
	Subtotal				\$5,000.00
	TOTAL				\$73,091.24
	Contingency (20%)				\$14,618.25
	General Conditions (5%)				\$4,385.47
	Bonds & Insurances (3%)				\$2,631.28
	Mobilization/Demobilization (1.5%)				\$1,315.64
	GRAND TOTAL				\$96,041.89

