

Attachment 7 - Detailed Cost Estimate

SILVER SPRING INTERMEDIATE NEIGHBORHOOD PARK - PARK RENOVATION PROJECT

ORDER OF MAGNITUDE ESTIMATE OF PROBABLE SITE COSTS

3.7 ACRES TOTAL

Last revised: 07/10/2019

ITEM	BASE QUANTITY	UNIT	UNIT COST Materials & Installation	BASE TOTAL COST
SITE PREPARATION & DEMOLITION (Including Mobilization)			SUBTOTAL	\$120,550.00
Mobilization-Project Identification Sign, Site Closed Signs, Construction Waste Disposal and General Conditions (6% Construction Cost Before Mobilization)	1	LS	\$65,070.00	\$65,000.00
6' Tall Temporary Construction Fencing at Perimeter (TPF / LOD)	2,750	LF	\$7.00	\$19,250.00
Construction Stakeout	1	LS	\$9,000.00	\$9,000.00
Maintenance of Traffic (Signage, Markings, Barriers, Flagmen, etc)	1	LS	\$3,000.00	\$3,000.00
Selective Demolition Play Area	500	SF	\$6.00	\$3,000.00
Selective Demolition Pavement	600	SY	\$18.00	\$10,800.00
Selective Demolition Storm Utilities: 15" RCP, Ex. Inlet, Outfall Pipes	1	AL	\$10,000.00	\$10,000.00
Selective Demolition Pole Light & Base	1	EA	\$500.00	\$500.00
TREE CARE			SUBTOTAL	\$66,000.00
SSAT Root Pruning	325	LF	\$8.00	\$2,600.00
Root Aeration Matting	4,000	SF	\$8.00	\$32,000.00
Root Protection Matting	0	SF	\$2.50	\$0.00
Remove and Grind Stumps	1	EA	\$500.00	\$500.00
Tree Removal and Chip On Site (Remove and Grind Stumps)	8	EA	\$1,500.00	\$12,000.00
Tree Protection Fencing with Signs	1,700	LF	\$7.00	\$11,900.00
Clear NNI species along the slope next to Philadelphia Ave	1	AL	\$7,000.00	\$7,000.00
EROSION & SEDIMENT CONTROL			SUBTOTAL	\$27,000.00
Stabilized Construction Entrance	1	EA	\$5,000.00	\$5,000.00
Super Silt Fence	1	AL	\$8,000.00	\$8,000.00
Filter Log	2	LS	\$1,000.00	\$2,000.00
Temporary Stabilization - Seeding, Mulching	1	LS	\$8,000.00	\$8,000.00
Dust Protection	1	LS	\$4,000.00	\$4,000.00
Permanent Stabilization	Included With Landscape			
GRADING/EARTHWORK			SUBTOTAL	\$66,000.00
Borrow, Loading / Spreading	1	AL	\$25,000.00	\$25,000.00
Import 4" top soil for active open lawn / play fields	3,500	SY	\$7.00	\$24,500.00
Fine Grading, Installation and Establishment of Seeded Lawn	30,000	SF	\$0.55	\$16,500.00
STORMWATER MANAGEMENT			SUBTOTAL	\$89,670.00
Microbiofilter - (Mulch, Media, Sand, Gravel, Underdrain)	1,200	SF	\$40.00	\$48,000.00
12" Nyoplast In-Line Drain w/ Dome Grate	1	AL	\$800.00	\$800.00
8" HDPE Pipe	100	LF	\$100.00	\$10,000.00
12" HDPE Pipe	40	LF	\$120.00	\$4,800.00
18" HDPE Pipe	18	LF	\$140.00	\$2,520.00
Replace Ex. Structure Riser w/ Throat Opening	1	AL	\$5,000.00	\$5,000.00
Proposed Doghouse Manhole MH-1 @ Ex. 36" RCP	1	AL	\$7,500.00	\$7,500.00
Convert Ex. Inlet to Manhole	1	AL	\$1,800.00	\$1,800.00
Replace Concrete Drainage Channel	50	SY	\$85.00	\$4,250.00
As-builts	1	AL	\$5,000.00	\$5,000.00
VEHICULAR PAVEMENT			SUBTOTAL	\$15,490.00
Vehicular Concrete Pavement @ ADA Spaces	35	SY	\$180.00	\$6,300.00
Vehicular Asphalt Pavement: Mill and Wedge Overlay	48	SY	\$30.00	\$1,440.00
Parking Striping	1	LS	\$1,500.00	\$1,500.00
Wheel Stops	0	EA	\$400.00	\$0.00
Regulatory Signage	1	LS	\$1,000.00	\$1,000.00
Curb and Gutter	150	LF	\$35.00	\$5,250.00
HARDSCAPE MATERIALS (PAVING, WALLS, STEPS)			SUBTOTAL	\$450,795.00
5" Concrete Paving with welded wire mesh (includes base material)	5,700	SF	\$8.00	\$45,600.00
Grate & Frame Over Curb Cut	1	EA	\$1,200.00	\$1,200.00
Porous Flexible Paving (base included)	1,940	SF	\$28.00	\$54,320.00
Concrete Stairs	75	LF Nose	\$35.00	\$2,625.00
Stair Landings	25	SF	\$10.00	\$250.00
North Retaining Wall Repairs	180	LF	\$600.00	\$108,000.00
North Segmental Retaining Wall	100	FF	\$35.00	\$3,500.00
East Segmental Retaining Wall	158	LF	\$850.00	\$134,300.00
Basketball Court Segmental Retaining Wall	450	FF	\$35.00	\$15,750.00
Concrete Retaining & Cheek Walls AT Steps & Ramps	158	LF	\$300.00	\$47,400.00
Elevated Boardwalk	740	SF	\$35.00	\$25,900.00
Helical Piers for Boardwalk	7	EA	\$1,000.00	\$7,000.00
Pennsylvania Boulders (14 cu ft/ton)	30	TON	\$165.00	\$4,950.00
UTILITIES			SUBTOTAL	\$12,000.00
Connection for Drinking Fountain new meter and 3/4" copper pipe	1	AL	\$12,000.00	\$12,000.00
FURNISHINGS, SITE AMENITIES			SUBTOTAL	\$257,645.00
ADA Picnic Tables	2	EA	\$ 2,400.00	\$4,800.00
Benches	11	EA	\$ 2,000.00	\$22,000.00
Bus Stop Benches	2	EA	\$ 2,000.00	\$4,000.00
Bicycle Rack	5	EA	\$ 1,000.00	\$5,000.00
Drinking Fountain	1	EA	\$ 7,150.00	\$7,150.00
Concrete Curb at Playground	90	LF	\$18.00	\$1,620.00
Handrails at Stairs	30	LF	\$ 125.00	\$3,750.00
Handrails at Ramps	450	LF	\$ 125.00	\$56,250.00
Retaining Wall Guard Rails	295	LF	\$ 125.00	\$36,875.00
10' Chain Link Fence	120	LF	\$ 60.00	\$7,200.00
10' Chain Link Double Gate	1	EA	\$ 2,000.00	\$2,000.00
12' Chain Link Fence	150	LF	\$ 75.00	\$11,250.00
4' Welded Wire Fence	86	LF	\$ 85.00	\$7,310.00
Multi-purpose Court 2" Compacted Surface Asphalt	1,530	SY	\$ 17.00	\$26,010.00
Multi-purpose Court Resurfacer, 3 Coats Color and Court Lines	1,530	SY	\$ 11.00	\$16,830.00
Tennis Court Net Post Footers	2	EA	\$ 1,300.00	\$2,600.00

ITEM	BASE QUANTITY	UNIT	UNIT COST Materials & Installation	BASE TOTAL COST
Tennis Court Net Posts (Set of 2)	1	EA	\$ 300.00	\$300.00
Tennis Court Net	1	EA	\$ 200.00	\$200.00
Futsal Court Goals	0	EA	\$ 1,300.00	\$0.00
Tennis Court Backboard Mounted on Fence (12 x 16)	4	EA	\$ 7,500.00	\$30,000.00
Natural Play Elements: Boulders, Stumps, Logs	1	LS	\$ 5,000.00	\$5,000.00
Port-A-John Screen	1	EA	\$ 7,500.00	\$7,500.00
LANDSCAPING, MICRO-BIORETENTION PLANTS + MAINTENANCE			SUBTOTAL	\$44,350.00
Canopy Tree (3" Caliper, Installed)	12	EA	\$500.00	\$6,000.00
Ornamental Tree (8' Height, Installed)	6	EA	\$400.00	\$2,400.00
Stormwater Plantings	1	LS	\$14,000.00	\$14,000.00
Seeded Turf with 3 Month Establishment	6,000	SY	\$2.00	\$12,000.00
Mulch	30	CY	\$65.00	\$1,950.00
Turf Reinforcement	2,000	SF	\$4.00	\$8,000.00
CONSTRUCTION SUBTOTAL (WITHOUT MOBILIZATION)				\$1,084,500.00
CONSTRUCTION SUBTOTAL				\$1,149,500.00
CONSTRUCTION CONTINGENCY (15% of Construction Subtotal)				\$172,500.00
CONSTRUCTION TOTAL				\$1,322,000.00
DESIGN CONTRACT WITH CONTINGENCY (15-20% of Construction Total)				\$185,000.00
STAFF CHARGEBACKS Project Manager (30% of Design Contract w/ Contingency)				\$56,000.00
OVERHEAD AND PROFIT (15%)				
STAFF CHARGEBACKS Construction Manager & Inspections (5% x Construction Total)				\$60,000.00
TOTAL PROJECT COST				\$1,623,000.00