

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 |