

**SILVER SPRING INTERMEDIATE NEIGHBORHOOD PARK - PARK RENOVATION PROJECT**  
 ORDER OF MAGNITUDE ESTIMATE OF PROBABLE SITE COSTS  
 3.7 ACRES TOTAL

Last revised: 06/20/2019

| ITEM   | BASE QUANTITY           | UNIT | UNIT COST Materials & Installation | BASE TOTAL COST       |
|--|-------------------------|------|------------------------------------|-----------------------|
| <b>SITE PREPARATION &amp; DEMOLITION (Including Mobilization)</b>  |                         |      |                                    | <b>\$120,550.00</b>   |
| 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              |
| <b>TREE CARE</b>   |                         |      |                                    | <b>\$66,000.00</b>    |
| 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            |
| <b>EROSION &amp; SEDIMENT CONTROL</b>  |                         |      |                                    | <b>\$27,000.00</b>    |
| 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 |      |                                    |                       |
| <b>GRADING/EARTHWORK</b>   |                         |      |                                    | <b>\$66,000.00</b>    |
| 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           |
| <b>STORMWATER MANAGEMENT</b>   |                         |      |                                    | <b>\$89,670.00</b>    |
| 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            |
| <b>VEHICULAR PAVEMENT</b>  |                         |      |                                    | <b>\$15,490.00</b>    |
| 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            |
| <b>HARDSCAPE MATERIALS (PAVING, WALLS, STEPS)</b>  |                         |      |                                    | <b>\$450,795.00</b>   |
| 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   | \$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            |
| <b>UTILITIES</b>   |                         |      |                                    | <b>\$12,000.00</b>    |
| Connection for Drinking Fountain new meter and 3/4" copper pipe  | 1                       | AL   | \$12,000.00                        | \$12,000.00           |
| <b>FURNISHINGS, SITE AMENITIES</b>   |                         |      |                                    | <b>\$287,845.00</b>   |
| 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 Resurfacers, 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            |
| 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            |
| <b>LANDSCAPING, MICRO-BIORETENTION PLANTS + MAINTENANCE</b>  |                         |      |                                    | <b>\$44,350.00</b>    |
| 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            |
| <b>CONSTRUCTION SUBTOTAL (WITHOUT MOBILIZATION)</b>  |                         |      |                                    | <b>\$1,084,500.00</b> |
| <b>CONSTRUCTION SUBTOTAL</b>   |                         |      |                                    | <b>\$1,149,500.00</b> |
| CONSTRUCTION CONTINGENCY (15% of Construction Subtotal)  |                         |      |                                    | \$172,500.00          |
| <b>CONSTRUCTION TOTAL</b>  |                         |      |                                    | <b>\$1,322,000.00</b> |
| 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)   |                         |      |                                    | \$66,000.00           |
| <b>TOTAL PROJECT COST</b>  |                         |      |                                    | <b>\$1,623,000.00</b> |