



BERNIER CONSTRUCTION, INCORPORATED PROJECT SUMMARY

Project Title: Wises Mill Run & Cathedral Run Stream Restoration and Stormwater Management Project

Location: Fairmount Park, Philadelphia, PA

Scope: Provide labor, materials, and equipment to restore eroded streambank sections within seven sections of Wises Mill Run and Cathedral Run in Fairmount Park

Berner Construction, Inc. was contracted by the City of Philadelphia Water Department (PWD) to restore eroded stream banks and wetland areas in seven sections of Fairmount Park. The scope of work that applied to each site included installation and maintenance of erosion control measures, tree protection, diverting stream flow around work areas, flood plain grading, and landscaping. All work was performed in accordance with PADEP and PWD Erosion and Sedimentation Control requirements for working within a stream channel.



Wises Mill Wetland Site 3

Each of the sites had unique construction requirements to address streambank erosion, wetland construction, stormwater collection and management, installation of pathways and wildlife habitats, and maintenance of the completed areas. Berner installed a combination of boulder toe bank stabilization revetments, step pools, weirs, J-hooks, root wads, live soil lifts, engineered debris jams, and rip rap protection for the purposes of mitigating stream bank erosion along a total of 1,465 linear feet of streams that are tributaries to the Wissahickon Creek in Fairmount Park.



Cathedral Run Site

The project also includes the construction of over 4 acres of wetland/stormwater management facilities. The goal of the wetland areas is to capture the stormwater runoff from the street and upland areas providing retention and slow infiltration thus supporting the wetland plantings.

Approximately 1,300 tons of quarried boulders were placed for the stream restoration project. 21,000 square yards of geotextile fabric and erosion control matting was installed. In addition, several of the areas require upgrade of the storm sewer structures and piping including demolition and replacement of stormwater well holes, catch basins, end walls, diversion structures, and concrete pipe.