

# Renee D. Scott, PE

## Project Engineer

**Years Experience:** 10

**Active Registrations:** Professional Engineer: Pennsylvania and Maryland

**Education:** Pennsylvania State University—B.S., Civil Engineering  
Pennsylvania State University—Minor, Environmental Engineering

### Experience & Qualifications:

Ms. Scott is responsible for a variety of engineering tasks, including pumping station, water and sanitary sewer conveyance system, water and wastewater treatment plant design; data collection and calculations; field investigations; report and permit preparation; cost estimates; and project management. Her experience encompasses design and construction of new systems, as well as the rehabilitation of existing systems.

### Representative Projects:

**Maplewood Avenue Sewer Separation** **Project Engineer**  
Ambridge, Beaver County, Pennsylvania

Prepared hydraulic calculations, designs, contract drawings, specifications, and construction cost estimates for the separation of a combined sewer and lining of an existing sanitary sewer. Project consisted of relining approximately 2,250 feet of 12-inch and 15-inch gravity sanitary sewer line, a storm sewer system consisting of approximately 1,375 feet of combined 15-inch and 18-inch pipe and required manholes and connections and 1,375 feet of 10-inch force main.

**Park Road Sewer Separation** **Project Engineer**  
Ambridge, Beaver County, Pennsylvania

Prepared hydraulic calculations, designs, contract drawings, specifications, and construction cost estimates for the separation of a combined sewer and lining of an existing sanitary sewer. Project consisted of relining approximately 1,350 feet of 12-inch and 15-inch gravity sanitary sewer line with fold and form HDPE pipe lining (F.I.P.P.) and a separate storm sewer system consisting of approximately 1,540 feet of combined 15-inch and 18-inch pipe and required manholes and connections.

**Steel Center Waterline Replacement and Campus Repairing Project** **Project Engineer**  
Jefferson Hills Borough, Allegheny County, Pennsylvania

Prepared plans, technical specifications and cost estimates to replace approximately 6,700 LF of highly corroded ductile iron waterlines and fire lines with new high density polyethylene pipe in sizes up to 12-inch diameter. Designs included the complete replacement of existing asphalt parking lots and driveway.

**Sewer Separation Projects** **Project Engineer**  
Ambridge, Beaver County, Pennsylvania

Prepared, designs, contract drawings, specifications, field investigations, and construction cost estimates for the separation of a combined sewer. Storm sewer system consisted of approximately 180 feet of 12-inch, 4,225 feet of 15-inch and 65 feet of 24-inch pipe, 24 manholes, and connections as required at 23 locations throughout the Borough.

**Spruce Run Sewer Rehabilitation** **Project Engineer**  
Bellevue & Avalon, Allegheny County, Pennsylvania

Prepared plans, specifications and cost estimates to replace 125 feet of 20-inch and 135 feet of 24-inch sanitary sewer and provide 4 new manholes within and along a stream bed after the existing pipes had been damaged by floodwaters.

R E S U M E

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**Wastewater Treatment Plant Improvements, Phase II**

Ambridge, Beaver County, Pennsylvania

**Project Engineer**

Completed loading and mass balance analysis and preliminary process calculations for trickling filters and final clarifiers in preparation for a Pennsylvania Department of Environmental Protection Part II Permit submittal.

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**Wastewater Treatment Regionalization Project**

Saxonburg, Butler County, Pennsylvania

**Project Engineer**

Prepared designs for five submersible pump stations and associated force mains as part of the regional sewer system project. The pump stations were rated at 617 GPM at 243 feet of head, 1,233 GPM at 278 feet of head, 1,297 GPM at 149 feet of head, 115 GPM at 23 feet of head and 171 GPM at 78 feet of head. Force mains consisted of 6,600 LF of 10-inch pipe, 12,500 LF of 12-inch pipe, 4,800 LF of 12-inch pipe, 625 LF of 4-inch pipe and 1,250 LF of 4-inch pipe. Designs included pump selection, site layout, force main plan and profile and modeling of hydrogen sulfide production and treatment.

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**North Inlet Reconstruction and Church Camp & Ghost Town Sanitary Sewer Relocation**

Bloomfield Township, Crawford County, Pennsylvania

**Project Engineer**

Prepared designs, contract drawings, specifications, various permits and construction cost estimates for approximately 2180 LF of 8-inch gravity sewer, 165 feet of jack and bored gravity sewer, 320 LF of 2.5-inch force main and 650 LF of 1.25-inch low pressure sewer, installing a packaged grinder pump and upgrading an existing pump station with 2 new submersible grinder pumps. Designs also included abandonment of an existing pump station, manholes, and associated piping.

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**Alameda Park's Masonic Shelter Sanitary Sewer**

Butler, Pennsylvania

**Project Engineer**

Prepared designs for 310 LF of 4-inch sanitary sewer and sliplining of 625 LF of 8-inch gravity sewer. Responsibilities included preparing erosion and sediment control permit applications, specifications and cost estimates.

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**Wheaton Water Main Modifications**

Wheaton, Maryland

**Project Engineer**

Assisted in the preparation of Wheaton Water Main Modifications Feasibility Study. Investigated existing utilities, structures, and topography. Performed hydraulic calculations, designs, and construction cost estimates for alternative pipeline alignments to allow for unrestricted use of storage in the reservoir.

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**Hillen/Ashburton Plant Bypass Main**

Baltimore, Maryland

**Project Engineer**

Performed hydraulic analysis on 84- and 64-inch transmission mains in order to address a proposed 64-inch connection between the existing 84- and 64-inch transmission mains to increase flow.

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**Large Valve Replacements (3 Contracts, 61 Valves)**

Washington, D.C.

**Project Engineer**

Prepared designs, contract drawings, specifications and construction cost estimates for the replacement of valves 12 inches and larger. Responsibilities included data acquisition, field observations, dimensional analysis, and coordination with other utilities.

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**Owings Mills Water Storage Reservoir**

Owings Mills, MD

**Project Engineer**

Assisted in the preparation of designs, contract drawings, and specifications for a 5.6 million gallon water storage reservoir. Responsibilities included preparing access road plans and profiles, construction cost estimates, and sediment and erosion control plans.

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**Piney Branch Sewer**  
Charles County, Maryland

**Project Engineer**

Performed hydrogen sulfide computations in order to address severe corrosion conditions occurring in downstream gravity sewers. Developed spreadsheets to assist in future hydrogen sulfide computations.

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**White Marsh Wastewater Pumping Station Improvements**  
White Marsh, Maryland

**Project Engineer**

Prepared designs, contract drawings, specifications and construction cost estimates for 230 LF of new parallel 42" force main at the existing 73 mgd pumping station site. Designs incorporated two line-stops to facilitate replacement of an existing isolation valve and provisions for use by a proposed new pumping station of both the new and existing pipelines.

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**Weems Creek and Towsers Branch Stormwater Study**  
Annapolis, Maryland

**Project Engineer**

Assisted in the collection, analysis, and presentation of storm water data for three stream locations. Responsibilities included sample and data collection, maintenance of equipment, chain of custody logs, interpolation of data, and proper handling and delivery of samples.

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**Catonsville Transmission Main**  
Catonsville, Maryland

**Project Engineer**

Performed an alignment study (10,400 LF of 42" and 950 LF of 48") and prepared designs, contract drawings, specifications and cost estimates for a water transmission main through heavily developed commercial area. Study and designs required coordination with the State Highway Administration to determine traffic control and signalization requirements for six major intersections.

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**Diversion Sewers & Combined Main Storage for CSO #28 & #29**  
Wilmington, Delaware

**Project Engineer**

Assisted in the preparation of designs, contract drawings, and specifications for a 2.7 million gallon underground storage facility. Prepared designs and contract drawings for water lines, gravity and pressure sewers, and storm drains.

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**White Marsh Wastewater Pumping Station No. 2**  
White Marsh, Maryland

**Project Engineer**

Prepared designs, contract drawings, specifications, and construction cost estimates for a new 73 mgd pumping station. Designs included plan and profile for an access road, grading, and calculations and layout for stormwater management facilities.

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**Phase I Environmental Site Assessments**  
Various Locations

**Project Engineer**

Phase I Environmental Site Assessments:

- Mars National Bank: John Artzberger Autobody Shop, *Valencia, Butler County, PA*
- Breakneck Headwaters, LLC: Lot 5-Richland Industrial Park, *Gibsonia, Allegheny County, PA*
- The Haddonfield Building Company: Bradford Heights Manufactured Home Park - *Woodland, Clearfield County, PA*
- Housing Authority of Butler County: Future West End Community Center – *Butler, Butler County, PA*
- Ohio County Development Authority: The Highlands, Various Locations - *Triadelphia, Ohio County, WV*

Conducted various Phase I Environmental Site Assessments (Phase I ESA). The objective of the Phase I ESAs was to identify environmental concerns that could impart long-term liability to the future property owner. The Phase I ESAs were conducted in accordance with the current ASTM standard. The studies included review of historical topographic maps, fire insurance maps, historical aerial photographs, and historical property owner ship records. Properties consisted of vacant and occupied lots ranging in size from 1 acre to 50 acres.

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