

MUNICIPAL ENGINEERING

EXPERTISE

- Municipal Representation
- Development Plan Reviews
- Roadways: Streets, Highways, Traffic
- Storm Water Management Design
- Erosion and Sedimentation Control
- Regulatory Permits and Approvals
- Traffic Impact Fee Studies
- Playground Safety Inspections
- Construction Phase Services
- Project Administration and Coordination
- Transportation Design
- Traffic Engineering
- Permitting
- Bidding Assistance
- Water and Wastewater Engineering
- Building and Site Engineering
- Environmental Services
- Surveying Services
- Municipal Planning



We listen.

SSM is a recognized leader in municipal engineering and consulting. Since 1932, we've assisted our clients in the planning, growth and well-being of their communities.

Today we help 100+ Pennsylvania municipalities and counties find practical solutions to their challenges and problems. We plan and oversee a wide range of infrastructure engineering, surveying, mapping and information technology projects. We attend municipal meetings. We guide growth. We're big in Pennsylvania local government because we pay attention to every little detail.

Building on relationships. SSM provides municipal, county and state governments with a multi-faceted, full-service engineering/consulting firm that serves as an extension of their operations. The more facets to the challenge, the more our clients can appreciate the efficiency of a single-source SSM solution.



Data + Infrastructure + Buildings + Environment
ssmgroup.com



CITY OF ALLENTOWN

Buck Boyle Park

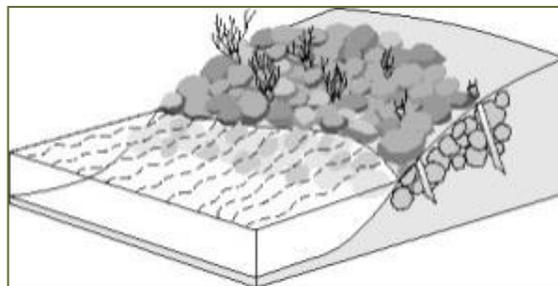
SSM designed a concave parking lot island in this 7-acre park along the Lehigh River. The island is an example of a bio-retention area that is designed to store and infiltrate the first flush runoff generated from the parking lot. A mixture of soil and compost was used in the island to support landscape planting and store moisture. In larger storm events a standard inlet that is set 6" above the bottom of the island and 6" below the parking lot will convey the runoff into a conventional stormwater system to prevent flooding.



WEST READING BOROUGH

Main Street Project

SSM prepared a plan to improve pedestrian and vehicular circulation along Business Route 422 between 2nd and 3rd Avenues in West Reading, PA. Designers worked with a borough work group and project architect, and our services included site plan design, analysis of issues and concerns, establishment of priorities, evaluation of alternative design options, design of bus pull off areas, pedestrian crosswalks, in-street crosswalk lighting, and streetscape improvements including street trees, planting strips, a planting divider in Business Route 422, distinctive light fixtures and patterned sidewalks. During the process, SSM staff developed public support through interviews, public meetings and workshops.



HONESDALE BOROUGH

Stormwater Management Study

Served as lead Project Engineer for conducting a stormwater management study of three tributaries to the Lackawaxen River. Data was gathered for each of the tributaries and an analysis of capacity was performed. Concepts and recommendations for improvements to the stormwater management system

to alleviate existing storm drainage problems were identified and presented to the Borough. Meetings with the project stakeholders, including the Borough Zoning Officer, the Borough Council, residents and the School District, were conducted throughout the project.

PERKIOMEN TOWNSHIP

Township-Wide Pavement Management System

SSM developed a long-term pavement management and capital improvement program for all township-owned streets.

SSM initially performed a detailed inspection of every street in order to visually assess the pavement condition in a qualitative way, and assign each street an overall condition. The condition was then linked to an appropriate rehabilitation method, which was based in part on the proposed timing of the treatment.

The data was initially organized using Excel Spreadsheet capabilities. The resulting product was a data base that included street maintenance history, the next projected rehabilitation treatment and timeline for each street segment, and a yearly project list and budget.

The data is structured in a manner that allows for modifications and evaluating what-if scenarios. The spreadsheet data was then linked to GIS, which is being used to generate and query spatial criteria (street length and width) used in the cost assessment process.

SSM continues to maintain and update this program on a yearly basis and uses it as a starting point for capital project design and bidding each year.