

Spotlight

A publication of Spotts, Stevens and McCoy



SPOTTS | STEVENS | MCCOY

FEBRUARY 2021

Our work touches everyday life.

From the water you drink to the air you breathe to the buildings and communities where you live, work and play.

Spotts, Stevens and McCoy is a family-owned regional engineering, environmental, and surveying firm serving local and global clients. We engineer solutions for a better world. Our work touches everyday life; from the water you drink, to the air you breathe, to the buildings and communities where you live, work and play.

EXPERTISE

- Building Engineering
- Site and Civil Engineering
- Survey, Data Capture and Modeling
- Water and Wastewater Engineering
- Construction Phase Services

[@ssmgroup.com](https://www.ssmgroup.com)



What we do best - is what you don't.

We aren't an engineering firm. If we were just an engineering firm, we'd assess, we'd solve, and then we'd cross it off of our list. But we're not just an engineering firm. We are so much more. Our engineers are so much more. We're a firm that believes our people are your people. A firm that believes in innovation; built on a solid foundation. We're an engineering firm that believes in improving the quality of life for our clients, our employees, and for all of the people touched by the work that we do.

February 21-27 is Engineers Week. This is the week we celebrate the engineers at our firm that make the world a better place. Our engineers. The ones that believe their work is important. Know their clients' visions are important. And bring to the table the passion to make good work happen. Those are our engineers. Because our engineers don't believe in just getting the job done. At SSM, we're here to help. Because our purpose is to help you stick to yours.

This year, our engineers solved problems. They navigated challenges, fulfilled visions, and they created solutions.

This year, our engineers:

- Cultivated innovative and energy-efficient solutions for indoor growing facilities.
- Provided a multi-state, corporate-wide coating booth evaluation for compliance with OSHA, ACGIH, EPA, NFPA, and company standards.
- Assisted a food processor in expanding their facilities and innovating their process to provide better ergonomic equipment and increased productivity.
- Utilized high-definition scanning data to create a complete point cloud database of a facility in preparation for the retrofit and reuse of the facility.
- Designed a laboratory upgrade to include a 20-ton air handling unit for temperature and humidity control for semiconductor research tool.
- Applied energy audit data and building simulations to develop and design upgrades for a building that will result in a reduction of energy consumption by 45%.

These are our engineers. What they do best, is allow you to do what you do best.



Interview with an Engineer: *Projects We Love*

Client:
Rhoads Marine Industries

Project:
Crane Support Analysis for Pier 5 at the Philadelphia Naval Business Center.

Describe the project:
A Chiquita Cargo Ship required its on-board crane to be serviced. To do so, several cranes were required to be positioned on the pier to achieve the pick. One of these cranes, a 600T mobile crane, is the largest of its kind on the east coast. SSM was tasked with mapping the exact locations of the crane outriggers to ensure there were no impacts to the pier.

What was the service SSM provided?
SSM has conducted thorough inspections of Pier 5, both outside, underneath and dive inspection oversight. We know this pier and what it's capable of doing. SSM was provided with the crane loading information for the pick and marked the locations for cribbing on the pier.

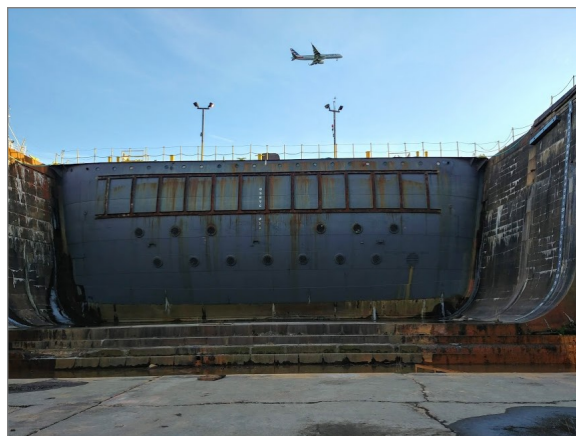
What makes this project one of your favorites?
What inspired me about this project is depicted in the photo above. This is the kind of activity that this pier is meant for and to see it in action was awe-inspiring.

SSM continues design and engineering work for the pier through inspections and design of repairs.

NEXT TO PIER 5 IS DRYDOCK #2 FOR WHICH SSM PERFORMS BIENNIAL INSPECTIONS FOR THE CITY OF PHILADELPHIA.

IN THIS PHOTO IS THE CAISSON THAT KEEPS THE DELAWARE RIVER OUT OF THE DRYDOCK.

THIS LOCATION HAPPENS TO BE THE APPROACH FLIGHT PATH FOR PHILADELPHIA INTERNATIONAL AIRPORT.



JEFF THOMS, PE IS A SENIOR STRUCTURAL ENGINEER IN SSM'S FACILITIES DIVISION.

HE HAS BEEN A PART OF THE SSM TEAM FOR 7 YEARS. HE'S A GIRL DAD, A DOG DAD, AND A WINTER-TIME FUN CONNOISSEUR.

DCED Accepting Applications for Act 13 Grants

Act 13 of 2012 established the Marcellus Legacy Fund and allocates funds to the Commonwealth Financing Authority for statewide initiatives that include abandoned mine drainage abatement; abandoned well plugging; sewage treatment; greenways, trails and recreation; baseline water quality data; watershed restoration; and flood control.

The state Department of Community and Economic Development (DCED) is now accepting applications for Act 13 programs.

Application deadline: May 31, 2021

Eligibility:

- Municipalities
- Councils of Governments
- Authorized Organizations
- Institutions of Higher Education
- Watershed Organization
- For-Profit Businesses



For assistance in applying for and obtaining grant funding:

Contact Andrew Shambach at andrew.shambach@ssmgroup.com

Read About It:

SSM assists authorities in receiving a total of \$1,708,865 in project funding.

Current Act 13 Grant Opportunities

Abandoned Mine Drainage (AMD) Abatement & Treatment Program

Eligibility: Abandoned mine drainage, abatement, and treatment with the Abandoned Mine Drainage Abatement and Treatment Program (AMDATP).

Opportunity: Projects which involve the reclamation of Abandoned Mine Well(s), construction of a new AMD site, remediation and repair of existing AMD project sites, operation and maintenance maintaining current AMD remediation sites, establishment of trust fund to ensure ongoing maintenance is achieved, and monitoring of water quality to track or continue to trace non-point source load reductions resulting from AMD remediation projects.

Funding: Grants shall be awarded to eligible applicants for projects that do not exceed \$1,000,000. The grant requires a least a 15% match of the total project cost.

Baseline Water Quality Data Program

Eligibility: Initiatives to establish baseline water quality data on private water supplies using the Baseline Water Quality Data Program (BWQDP).

Opportunity: Projects which involve practices for water sample collection and analysis to document existing groundwater quality conditions on private water supplies.

Funding: Grants shall be awarded to eligible applicants for projects that do not exceed \$250,000. The grant requires at least 15% match of the total project cost.

Flood Mitigation Program

Eligibility: Projects authorized by a flood protection authority, the Department of Environmental Protection (PaDEP), the U.S. Army Corps of Engineers (USACOE) or the U.S. Department of Agriculture's Natural Resources Conservation Service (NRCS) or identified by a local government, for flood mitigation.

Opportunity: This could be a good funding source to address localized stream flooding due to siltation and debris deposits over time, for which few funding sources exist.

Funding: Grants shall not exceed \$500,000 for any project. A 15% match of the total project cost is required.

Greenways, Trails, and Recreation Program

Eligibility: Programs for planning, acquisition, development, rehabilitation and repair of greenways, recreational trails, open space, parks and beautification projects using the Greenways, Trails and Recreation Program (GTRP). Projects which involve development, rehabilitation and improvements to public parks, recreation areas, greenways, trails and river conservation.

Opportunity: This could be a good way to leverage recreation funds that already exist within municipal budgets.

Funding: Grants shall not exceed \$250,000 for any project. A 15% match of the total project cost is required.

Orphan or Abandoned Well Plugging Program

Eligibility: Funding orphan or abandoned well plugging projects using the Orphan or Abandoned Well Plugging Program (OAWP).

Uses: Projects which involve the cleaning out and plugging of abandoned and orphan oil and gas wells; stray gas mitigation systems; and well venting projects.

Funding: There is a maximum of \$1,000,000 for any project.

Sewage Facilities Program

Eligibility: Initiatives for complying with the Act of January 24, 1966 (1965 P. L. 1535, No. 537), known as the Pennsylvania Sewage Facilities Act.

Opportunity: Costs associated with the planning work required under Act 537.

Funding: Grants shall be awarded to eligible applicants up to \$100,000. A 50% match of the total project cost is required.

Watershed Restoration and Protection Program

Eligibility: Projects which involve the construction, improvement, expansion, repair, maintenance or rehabilitation of new or existing watershed protection Best Management Practices (BMPs).

Opportunity: The overall goal of this program is to restore and/or maintain reaches of streams impaired by non-point source pollution. As such this grant could be used to implement NPDES MS4 Pollution Reduction Plans.

Funding: There is a maximum of \$300,000 for any project. A 15% match of the total project cost is required.

Opportunities at SSM - join the team!

Our work touches everyday life, from the water you drink to the air you breathe to the buildings and communities where you live, work, and play.

Visit ssmgroup.com for more information about these opportunities:

Mid-level Mechanical (HVAC) Engineer with at least seven years of experience in the design of HVAC, process piping and plumbing systems in industrial, commercial, and R&D type facilities. Responsibilities include the mechanical design of HVAC and other building systems for higher education, healthcare, data center and industrial projects. We are seeking someone with good communication skills because you will be involved in several projects at one time that include several team members.

Survey Technician to operate field surveying instruments, including robotic survey instruments, GPS surveying instruments, and auto-levels. In addition, you will learn to download field data to be used in preparing AutoCAD drawings in Civil3D.

Project Manager for Multi-Discipline Engineering Projects with strong engineering and technical qualifications working across multi-discipline technical teams. The Project Manager will assemble and guide a team towards meeting project objectives including managing project tasks to maintain budget, schedule and Scope of Work. In addition, the Project Manager ensures that Quality Assurances are completed, recorded and meet company standards and project scope to reduce risk, improve efficiency and increase value.

Senior Water or Wastewater Engineer to work with our engineering staff to support our existing and future work in the water, water resources, and wastewater engineering markets on projects such as municipal treatment facilities, distribution systems, collection systems, sanitary and storm sewers and storm water. We are seeking good communicators with experience working with public clients including municipalities and authorities, as well as private sector clients.

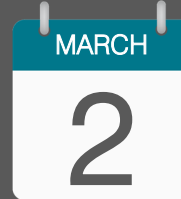
Energy Modeler/Engineer with 3 to 5 years of experience in evaluating energy performance of commercial building designs and existing commercial buildings. Experience with eQUEST, Carrier HAP, and/or Trane Trace required.

Energy Auditor to perform assessments of existing municipal and commercial buildings, including assessment of HVAC, lighting, DHW, and building envelope. Experience with analysis of data from BAS trends and other operational assessments would be a plus! Strong communication skills required, especially written communication. Ability to use analysis software and spreadsheet applications is also required.

Energy Analyst to perform analysis of buildings and building systems to help clients reduce energy consumption and environmental impacts in cost effective ways.

Mark Your Calendar

Sharing the news of upcoming helpful events that the SSM team is involved in!



Webinar: How Radnor Township is reaching its goal for 100% Clean Energy

March 2nd, 6-7 pm

Want to learn how one Pennsylvania community — Radnor Township — can reach its goals for transitioning to 100% clean energy?

Join us for a webinar presentation by Radnor's energy consultants, Practical Energy Solutions (PES), on the energy transition plan they have prepared for the community. PES will lay out their combination of recommended strategies for meeting the township's commitment to transition to 100% clean renewable electricity by 2035 and 100% renewable energy for heating and transportation by 2050.

[Register Here](#)



Chester County Releases Draft Climate Action Plan for Public Input

March 4th, 6:30 pm

The Chester County Planning Commission, in partnership with the Chester County Environmental and Energy Advisory Board, is holding a virtual public meeting to present the county's proposed Climate Action Plan. The updated Climate Action Plan will provide a current greenhouse gas emissions inventory, as well as action plans for reducing emissions and improving energy efficiency throughout the county.

[Register Here](#)

SPOTTS, STEVENS, AND MCCOY

ACROSS

- One of our four locations. (Hint: not Reading, Lehigh, or West Chester)
- The combined action of a group, especially when effective and efficient. (Hint: one of our core values)
- A feeling of deep satisfaction derived from one's own achievements or those closely associated. (Hint: one of our core values)
- Uprightness of character or action. (Hint: one of our core values)
- Survey + _____ + Buildings + Environment
- The "M" in SSM

DOWN

- The name of our monthly newsletter
- General excellence of standard or level (Hint: one of our core values)
- Our work touches everyday _____
- SSM is a _____-owned regional engineering, environmental, and surveying firm.

February Fun!

A little challenge to keep you busy.

How much do you know about SSM? Hint: you can find just about everything on our website, www.ssmgroup.com

Here's a fun little crossword puzzle to test what you know, or teach you something new!

Bonus: Send us a picture of your finished crossword to information@ssmgroup.com or tag us on social media with a picture of it, and we'll send you a little SSM Swag Love!

[Download the Puzzle](#)