



MindMixer



Castle Shannon Borough recently selected the LSSE Team (comprised of LSSE, McMahon Associates, Inc. and E. Holdings, Inc.) to assess the needs and develop a plan to improve walk-ability and physical connectivity of three borough neighborhoods, its central business district and multiple Port Authority Transit (PAT) stations. As part of this study (funded in part by a grant from the Allegheny County Redevelopment Authority as part of the Active Allegheny program), the LSSE Team is utilizing a customizable on-line stakeholder outreach application called MindMixer. The MindMixer engagement platform allows residents and stakeholders to fill out a multiple-choice survey and/or submit unique ideas with photos, videos or short answers as well pin specific locations on a map. The MindMixer results as well as direct Steering Committee and public outreach efforts will enable the LSSE Team to develop a long-range working plan to improve connectivity among local Castle Shannon destinations, transportation systems while increasing residents' opportunities for physical activity within their neighborhoods and the Borough.

CLEARVIEW LSSE's Customer Relationship Management (CRM) System is a multi-functional platform that assists in management of our current and potential Clients' data. Our CRM system utilizes a third-party software that assists every department at LSSE from marketing, to project delivery and accounting. Our staff utilizes the program to enter time and expenses for each task and then our management team utilizes the program for managing our resources in our efficient manner including managers to review and approve time and expenses throughout the firm. Accounting uses the software for billing and receiving payment for work performed. Project and Client Managers can review project budget status in real time to manage multiple projects. The Marketing Department maintains and manages client contact database. The graphic user interface is user friendly and visually appealing and makes execution of all these tasks very efficient. The program also provides our Managing Principals access to all of this data at their fingertips to assist in the day-to-day management of the firm.

Lennon, Smith, Souleret Engineering, Inc.

LSSE News is published for the benefit of our clients, associates and friends.
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Jacobs Creek Watershed Authority Southmoreland High School Parking Lot

The Jacobs Creek Watershed Authority Implemented a stormwater improvement project that included addressing the volume of stormwater runoff from two separate parking lot locations within the Southmoreland High School campus. The intent of the projects is to reduce the volume of runoff and associated pollutants that are being directly discharged to Stauffer Run. Project Area No.1 was selected to reduce runoff from the existing asphalt and densely compacted gravel parking lot used by the Southmoreland High School maintenance department and for emergency vehicles and bus parking during stadium events. The existing lot was excavated and replaced with a pervious asphalt paved parking lot with a stone infiltration bed below it to capture, detain and infiltrate stormwater runoff.



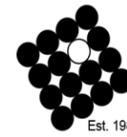
Project Area No. 2 was selected to reduce runoff from the existing asphalt student parking lot located above the High School. The existing lot was excavated and the grade of the lot was reversed to direct runoff to a rain garden that was installed along the edge of the parking lot. A portion of the parking area and drive isle were paved with traditional asphalt pavement. The parking stalls at the low side of this lot were paved with pervious asphalt with a stone infiltration bed below it to capture, detain and infiltrate stormwater runoff. The Project benefits include a total anticipated runoff reduction of 101,700 cu ft and an anticipated pollutant reduction of 262 lbs. of Total Suspended Solids, 0.6 lbs. of Phosphates, and 0.6 lbs. of Nitrates per year.

Light of Life Rescue Mission

Recently LSSE has been awarded the surveying services contract to provide construction stakeout for the building footers for the new Light of Life Rescue Mission site located at Voeghtly Street on the North Side in the 23RD Ward, City of Pittsburgh.

Client Training

LSSE held our Annual Permit and Regulation Update Training on Friday, July 26, 2019 at the Doubletree by the Hilton at Pittsburgh International Airport. Updates were presented as follows: Pennsylvania One-Call – PUC Enforcement; Online Bidding; Roadway/Infrastructure Improvements; WMA v. HMA, Options for Paving, ADA Regulations and MUTCD Signage Update; FEMA Annual Reporting; MS4s – Permit (#3) (2018 through 2023), MCMs 1-6/Update (required yearly activities), PRPs and Ordinances Updates; Submittals to Codes/Planning Update; Stormwater Agreements, EPS, ECMS, HOP and Agreements and Developer Agreements/Escrow/Bonding. If any clients would like any additional information about the above topics, please contact Samantha Douds at sdouds@lsse.com. Next year LSSE's Client Training will be held in April, we look forward to seeing everyone!



Rabell Surveying & Engineering A Division of LSSE

Lennon, Smith, Souleret Engineering, Inc. (LSSE), a 95-person civil engineering and surveying firm founded in 1985, is pleased to announce the acquisition of Rabell Surveying and Engineering, LLC on May 1, 2019. Rabell Surveying and Engineering, LLC will now be Rabell Surveying and Engineering A Division of LSSE. We welcome the Rabell Team to our LSSE Family and look forward to our continued growth for municipal and private clients for both surveys and civil engineering.

Robert L. Rabell, P.L.S., P.E., founder of Rabell Surveying and Engineering, LLC, will remain with LSSE in the position of Senior Engineer/Chief of Surveys of the Erie County Branch office. Matthew L. Swanson, P.L.S. will manage the Erie County Branch office. Matthew has 22 years of experience and was a partner with Rabell Surveying and Engineering, LLC.

Lennon, Smith, Souleret Engineering, Inc.'s Headquarters is located in Coraopolis, PA, and with the addition of Rabell Surveying and Engineering

clients, the LSSE Team now serves over 75 municipal clients located throughout western PA and OH, including townships, boroughs, sewer and water authorities, higher education and utilities. LSSE also serves the commercial and residential site development market and has completed civil site design and permitting of over 4 million square feet of industrial park distribution centers, commercial sites and residential subdivisions comprising over 4,500 residential units. Rabell Surveying and Engineering A Division of LSSE offers similar land surveying and civil engineering services to individuals, developers, municipalities, authorities, architects and contractors in northwestern PA and eastern OH areas since its founding in 1981.

The acquisition furthers LSSE's strategic business planning objectives established in 2008. The acquisition will allow the LSSE Erie County office to grow and offer a broader range of civil and related environmental services including specialized sewer/infrastructure evaluation, hydraulic modeling, water and wastewater facilities planning and design, GIS and municipal project grants/administration services. It will also allow this office to meet the growing needs of its municipal and commercial clients. LSSE is owned by Kevin A. Brett, P.E., Ned Mitrovich, P.E. and Jason E. Stanton, P.E.



Recent LSSE Projects and Award

Following are some great projects we've had the opportunity to complete surveys, design and civil site permitting on:

Ashley Capital (Flex Business Facility)

LSSE provided civil-site engineering services for the Findlay Commerce Center, LLCs new (316,374 SF) Flex Business Facility located on a 23.5-acre parcel in the Findlay Industrial Park, which won the 2019 Speculative Industrial Award at 200 Solar Drive at the 2019 NAIOP Awards Banquet. The site plan consisted of 20 dock positions, office area, 100 trailer parking spaces, a 166 space parking area with approvals to expand the parking area by 175 spaces in the future. As a consultant LSSE was part of the design team responsible for completing the surveys, civil-site design and permitting for this project.



RIDC's (Carnegie Mellon University Advanced Robotics for Manufacturing (ARM) Institute)

LSSE provided civil engineering and surveying services under a subcontract to the Site Architect, MSR Design, for a multi-phased adaptive reuse of a 1,300 foot-long, historic steel mill. The project is located within the Hazelwood Green development, a 170-acre brownfield site that is being transformed into a sustainable, mixed-use development. The design positions the new building as a box inside the steel structural frame of the old mill. It will house office space; areas for design, prototyping, and testing; and public areas, with tenants including Carnegie Mellon University's Advanced Robotics for Manufacturing Institute. The project has been designed to include sustainable measures to meet the goal of achieving LEED-NC v4 Gold certification and near net zero energy usage including rainwater harvesting, solar panels and the re-use of existing site materials.



The Keith Corporation (Niagara Bottling, LLC)

LSSE provided civil-site, surveying, permitting and engineering services for the recently completed 454,480 square foot office/warehouse/distribution center within Lot No. 9 (42.6-acres) of Findlay Industrial Park. In addition, other proposed improvements



included private access drives, utilities, stormwater conveyance facilities, 80 parking spaces, 20 truck docks, 105 trailer spaces, maintenance facility, and a 46 future parking expansion, etc.

Chapman Westport / Hillwood Development (Amazon)

LSSE provided civil-site, surveying, permitting and engineering services for the recently completed 1,033,679 square foot office/warehouse/distribution center within Parcel A (87.5-acres) of Chapman Westport. In addition, other proposed improvements included private access drives, utilities, stormwater conveyance facilities, 1,000 parking spaces, 90 truck docks, 163 trailer spaces and maintenance facility, etc.

Work included preparation of site development plans including grading, drainage and utilities; street lighting plans; sanitary sewers and waterlines; erosion and sedimentation control plans, report and details; stormwater management report; post-construction stormwater management report and over 500 LF of roadway design.

For all of the Chapman Westport development LSSE provided the Stormwater Management System for the development included an interconnected system of vegetated swales, rain gardens, forebays, four stormwater detention facilities to distribute stormwater throughout the development better mimicking predevelopment stormwater discharge characteristics.

LSSE prepared PaDEP Chapter 105, U.S. Department of the Army Corporation of Engineers 404 joint permit to disturb approximate 0.71 acre of wetlands and a dam breach permit to remove an abandoned mine pond on the property.

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For all of the projects, LSSE is providing construction phase survey stakeout services, prepared construction specifications and is assisting the Owner with construction phase services throughout construction and assisting in closing out NPDES permits as sites are completed.



MS4 Permit 2019 Update

The latest permit cycle continues with the typical six Minimum Control Measures (MCM). One of the MCM critical items which is always in need of updates is the Pollution Prevention/Good Housekeeping Plan. A reminder for all clients to update their plan yearly for public works especially since the Pollutant Reduction Plans (PRPs) and other stormwater facilities will add yearly maintenance requirements for the facilities built which will be in the next 5 years. Remember to document, document, document.

Also, as a reminder, PRPs were submitted to PaDEP in September 2017 were approved by PaDEP in the beginning of March 2018. All Municipalities with a PRP requirement must implement BMPs to address required reduction by March 2023. Annual Planning for budgeting, permitting, design and construction is key to comply with permit requirements.

TRAISSR/GIS

TRAISSR/GIS is continually evolving and growing alongside clients to meet the needs and requests of 1,000+ users and serving municipalities that include over half-million residents. Recent releases additional features including:



- WORK CENTRAL**
 - » Mobile Apps
 - » Multiple Assignees
 - » Customizable Grid
 - » Auto-Scheduling
 - » Track Costs Against Budgets
- PERMIT CENTRAL**
 - » Cost Center - Fees
 - » Online Contractor Registration/Payments
 - » Code Enforcement
- CITIZEN CENTRAL**
 - » Online Portal for Constituent Feedback/Input

Online Bidding

LSSE is moving to an Online bidding platform in 2020. Online bidding provides real-time information for plan holders, clients, suppliers and the LSSE team. Contractors will be able to easily access documents in a download-able format. All bids will be submitted Online electronically including bonds. Our third-party program will add efficiency in the bidding process and will provide a tabulation of bids as they are electronically opened. This process will also limit opportunity for bidding errors. We look forward to implementing this in 2020.

America Water Infrastructure Act of 2018

The America's Water Infrastructure Act of 2018 was enacted by the US Congress, which includes requirements for water infrastructure ranging from Flood Control to Public Water System. The act also reauthorized Water Infrastructure Finance and Innovation Act of 2014, which provides expanded financial assistance to communities under both the Clean Water Act and the Safe Drinking Water Act. This includes increased available grant and loan funding for USDA RUS, Clean Water and Drinking Water State revolving fund (i.e. PennVEST), etc.

Included in this legislation for drinking water systems serving more than 3,300 people requiring systems to develop or update risk assessments (vulnerability assessments and emergency response plans). This includes community water systems that prepared Vulnerability Assessments previously for compliance with the Bioterrorism Preparedness and Response Act of 2002. Vulnerability Assessments under that act included:

1. Developing a Threat Assessment
2. Characterization of Water Utility (Sites, etc.)
3. Consequence Assessment
4. Analysis of Physical Protection System (in place or proposed)
5. Determination of System Effectiveness
6. Risk Analysis
7. Risk Reduction and Final Report

Using the final report, water authorities then were required to update their emergency response plans to incorporate the findings of the Vulnerability Assessments as well as consideration of constructing improvements to mitigate risks identified.

The new Vulnerability Assessment are to be completed by June 20, 2021 (for water systems serving up to 49,999 people). It is recommended that the Assessment start in early 2020 and water systems appoint a stakeholder committee to participate in the full analysis. Emergency response plans are to be updated within six months of completion of the Vulnerability Assessment. Specific requirements for the new vulnerability assessments are yet to be released with US EPA currently developing the new requirements as well as training, etc. It is recommended that preparation of these plans be planned to start in early 2020 dependent on the release of the final requirements by US EPA.

If you have questions on this legislation or other regulations regarding your drinking water, wastewater or stormwater systems, please feel free to contact LSSE for assistance.



Grants and Funding Update

We are pleased to announce two new funding awards to our clients: Multi-modal Transportation Program Fund (Commonwealth Financing Authority):

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- Midland Borough - \$650,000 Grant - Road Improvement Program
- South Beaver Township - \$181,300 Grant - Swampoodle Road Bridge Deck Replacement

Have you been hearing about "RESTORE PA" in the news and are wondering what it is about? Here are a few key points:

- This is an infrastructure initiative proposed by Governor Wolf to invest \$4.5 Billion over 4 years in five key areas - high speed Internet access, storm preparedness and disaster recovery (including flood control and stormwater infrastructure), energy infrastructure revitalization (brownfield cleanup, blight removal, green infrastructure), and transportation (including "back roads", business on ramps, and public transit).
- Funding for this initiative is through a proposed natural gas production severance tax.

Please contact LSSE if any of these programs could be useful for your upcoming municipal project:

- Pennsylvania Infrastructure Bank <http://dced.pa.gov/programs/pennsylvania-infrastructure-bank-pib/> - This is a low interest loan program through PennDOT for bridges, etc.
- Local Government Capital Loan Program - <http://dced.pa.gov/programs/local-government-capital-project-loan-program-lgcpl/> - Low interest loans for municipal equipment and facilities.

NEW HIRES

Allegheny County Office (Headquarters): Daniel C. Geiger, E.I.T. - Assistant Engineer; Abbigale N. Keefer - Environmental Technician; Michael A. Hershey - Survey Technician; Christine C. Lauble, P.L.A. - Senior Designer; Kurtis A. Magnello - Assistant Engineer; Adam P. Livingston - RPR and Emily A. Painter - Accounting/HR Assistant

Westmoreland County Office (Branch): Garrett J. Coyne - Assistant Engineer

Erie County Office (Branch): Robert L. Rabell, P.E., P.L.S. - Senior Engineer/Chief of Surveys; Matthew L. Swanson, P.L.S. - Office Manager; Thomas J. Revak - Engineer; William C. Graham - Assistant Engineer/Assistant Surveyor; Nathaniel E. Mathewson - Designer and Jon T. Smith - Assistant Surveyor

- Community Facilities Direct Loan Grant Program <https://www.rd.usda.gov/programs-services/community-facilities-direct-loan-grant-program/pa> - This is a grant program (and loans) for public safety services and equipment. Criteria for "small communities" (less than 5,500 people) and gives priority to communities whose MHI is certain percentages below the state MHI.

Coming to your inbox in the near future - LSSE's new quarterly email - "Grants and Funding Update".

Included in the recently approved budget for Pennsylvania's next fiscal year was \$40M for PA Small Water and Sewer Grant Program and \$24M for the H2O PA programs (water, sanitary, and storm projects, and flood control). Applications are being accepted from September 18, 2019 to December 13, 2019.

Please feel free to call Emily Palmer, PE (epalmer@lsse.com) with any questions or for additional information about these or any other funding program.

2019 LSSE Tournament

After the mini golf, trivia, bowling and volleyball tournaments held earlier in the year, at the LSSE picnic Team Wright took the win for the fourth year in a row! Thanks to everyone who participated and made these events so much fun, including the spectators! This year LSSE had numerous employees celebrate their years of service anniversaries including, two 30 years of service and one 25 years of service and would like to thank all of our employees for their efforts.



Congratulations Team Wright!

Family FUN

Charles J. Dawson took first place at the Columbiana County Fair in Lisbon, Ohio Hay Bale Throwing Contest, with a toss of 36.8'.

LSSE's Newborns

Nathan Mathewson and his wife, Kyra welcomed their first child Zosimas Basil Nelko Mathewson on August 11, 2019, 6 lbs, 4 oz.



Ryan Contestabile and his wife, Katie welcomed their second child Adalyn Jane Contestabile on August 18, 2019, 6 lbs, 13 oz.



Lincoln David Rabell 7 lbs. 3 oz. was born on September 7, 2019. Grandson to Bob Rabell and son to Jared and Amanda Rabell from Knoxville, Tennessee.



LSSE's 2019 Annual Company Picnic

LSSE's 100th Employee

On May 28th, LSSE hired its 100th employee (Austin T. Mirizio). LSSE's central goal is to deliver top quality engineering and surveying services through the coordination of all in the organization and in pursuit of this, we have seen demand for our services continue to increase. This demand has led to continued recruitment and expansion, reaching this exciting new milestone. Congratulations all!

