STATEMENT OF QUALIFICATIONS
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SMART SERVICES, INC.
Smart Services is a woman owned professional consulting firm providing surveying and right-of-way, traffic engineering and data collection, and environmental services. We have extensive experience with state agencies, counties, townships, cities, and villages, and our lead professionals in each area have over 25 years of experience in their field. The company has DBE, State of Ohio EDGE, and City of Columbus FBE certification. From our two locations, we offer a wide range of services and utilize the latest equipment and technology to meet the needs of our clients and deliver projects on time and on budget.

HISTORY
Smart Surveying, Inc. was established in 1996 by Brian D. Smart, PS, to provide surveying services to the Central Ohio area. In the fall of 2011, majority ownership was sold to Kathleen Krock, a former ODOT bridge design engineer, and the name changed to Smart Services, Inc. to reflect the broader range of services offered.

SURVEYING & RIGHT-OF-WAY
Mr. Smart, a registered surveyor in Ohio and Arizona, is the Vice President of Smart Services and the Director of Survey and Right of Way Services. His years of experience with construction staking, ALTA, mortgage, topographic and boundary surveys provide the foundation of the company. Mr. Smart is assisted by the firm’s Survey Manager, John Dodgion, PS. Mr. Dodgion manages the day-to-day survey operations of the company. Together they provide high quality surveying and right of way services, while meeting your DBE and EDGE goal needs.

TRAFFIC ENGINEERING AND DATA COLLECTION
In 2013, Smart Services acquired Traffic Engineering Services Inc. (TES). TES was founded by Gerald L. Wilcox, P.E., P.T.O.E. in 1986 to provide quality traffic and transportation engineering services. That tradition is carried on by Smart Services Inc. today. Todd Stanhope, P.E., P.T.O.E. began his career in 1995 at TES and is responsible for the Traffic Engineering division at Smart Services. Mr. Wilcox continues to provide his expertise in a consulting capacity to our engineering staff. Mr. Stanhope is assisted by Patrick Wilson, PE. Smart Services has the resources to perform a full range of traffic engineering, traffic counts, and transportation planning services.

ENVIRONMENTAL SERVICES
With the addition of Mitchel Strain in 2014, Smart Services expanded to offer environmental services. Mr. Strain has many years of experience with all aspects of the National Environmental Policy Act (NEPA) compliance including preparation of Environmental Assessments (EA), Environmental Impact Statements (EIS), Categorical Exclusions (CE) and other NEPA documentation. Mr. Strain’s particular expertise is in wetland science, including delineation, creation, and restoration of wetlands for mitigation and wildlife habitat, Clean water Act Section 404 and 401 permitting, and design of constructed wetland treatment systems.
SMART SERVICES, INC. is a Central Ohio professional consulting firm providing surveying and right-of-way, traffic engineering and data collection, and environmental and permitting services. The company has DBE, State of Ohio EDGE, and City of Columbus FBE certification. We offer a wide range of services and utilize the latest equipment and technology to meet the needs of our clients.

### Surveying

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<td>Construction &amp; Final Site Staking</td>
<td>Trimble SX10 Total LiDAR Scanning Station</td>
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### Traffic Engineering and Data Collection

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### Environmental Services

**NEPA Documentation**
- Environmental Assessments (EA), Environmental Impact Statements (EIS), & Categorical Exclusions (CE)
- Baseline Biological Assessments, Habitat Evaluation Procedure (HEP) Analyses, Threatened & Endangered Species Surveys & Critical Habitat Assessments
- Ecological Surveys
- Delineation, Creation, and Restoration of Wetlands for Mitigation and Wildlife Habitat
- Clean Water Act Section 404 and 401 Permitting
- Wetland Treatment System Design
- Soil Evaluations
- Waterway Permitting
- Environmental Documentation
- Regulatory Coordination

SMARTSERVICES-INC.COM 88 W. CHURCH ST. NEWARK, OH 43055 740-345-4700
Quality Assurance / Quality Control

QA/QC starts with the proposal stage and is carried out through project completion. At the proposal stage, we will talk with the City and develop a clear scope of services. This allows for accurate understanding of the deliverable, knowing that it meets the City’s expectations. Once a project is awarded we will evaluate the skills and experience of our staff and assign tasks accordingly. Our assigned project manager will regularly communicate with the City during the project, keeping abreast of issues, budget, and timeline. Once a project is completed we follow up with our City to see that expectations were met.

Insurance

Smart Services, Inc. maintains general (public) liability, automobile liability, and professional liability insurance through Hoffmann & Associates. A sample certificate of insurance is included in this submittal and a custom certificate of insurance can be issued based on project requirements.

Communication

Frequent and clear communication between us and the City will assure everyone is on the same page from proposal stage to completion of your project. Smart Services’ assigned project manager will clearly and succinctly provide the City a detailed update of the project progress and outstanding issues regularly. We know it your desire to have your projects considered a priority, and we will accomplish this by being engaged in the project while keeping track of the project deadline, budget, and outstanding issues or concerns.

Technology

Our firm is committed to utilizing the best available technology to help our employees do their jobs efficiently and effectively. Smart Services contracts with AlphaLink to maintain constant access to the internet as well as Green Light Technology Solutions to trouble shoot IT issues so that our workflow remains uninterrupted.

Innovative Approach & Cost Containment

Our structure has built-in factors that allow us to meet deadlines and contain costs. Some of these are as follows:

- Our staff is qualified to do the job and we constantly communicate to prevent cost overruns. Overruns typically occur when staff is not properly trained, there is a lack of communication, or the scope of work is not clearly defined. Smart Services provides continuing education opportunities to its employees and encourages participation in related professional organizations so that they may provide the best service to our clients. Each division leader at Smart Services has at least twenty years of experience. This enables us to deliver an excellent product to our clients as well as provide leadership and guidance to our younger professionals.
- Smart Services uses Ajera, a sophisticated project management and accounting system. Weekly staff meetings are held to review project budgets, progress and staffing.
- All field crews are supplied with tablets and/or field books and are required to log project information to supplement the information collected electronically. Logs are reviewed by division leaders to ensure quality and accuracy.
Survey and Right of Way
Brian Smart, PS and John Dodgion, PS, are prequalified with ODOT to perform:

- Limited R/W Plan Development
- Complex R/W Plan Development

Traffic Engineering and Data Collection
Todd Stanhope, PE, PTOE is prequalified with ODOT to perform:

- Non-Complex Roadway Design
- Safety Studies
- Basic Traffic Signal Design
- Traffic Signal System Design
- Interchange Justification/Modification Study
- Bicycle Facilities and Enhancement Design

Environmental Services
Mitchel Strain, PWS, CPSS, CPSC is prequalified with ODOT to perform:

- Environmental Document Preparation-CE
- Environmental Document Preparation-Section 4(f)
- Ecological Surveys
- Stream and Wetland Mitigation
- Waterway Permits
- Regulated Material Review (formerly ESA Screening)
SMART SERVICES ORGANIZATION

Owner/President
Kathleen Krock

Accounting Manager
Deborah McDonald

Vice President & Director of Surveying & Right of Way
Brian Smart, PS

Surveyor & Project Manager
John Dodgion, PS

Field Crew Leader/Engineer
Taylor Schoepf, SI

Field Crew Leader
James Watts

UAV Pilot/Survey Technician
Ryan Jacquot

Survey Crew Member
Ken Dillon

Design Technician
Nick Mason

Engineer/Survey Intern
Tom Collins, BSCE

Title Research
Curtis Smart

Director of Traffic Engineering
Todd Stanhope, PE, PTOE

Project Engineer
Patrick Wilson, PE

Traffic Engineer
Gerald Wilcox, PE, PTOE

Director of Environmental Services
Mitchel Strain, CPSS, CPSC, PWS

Environmental Scientist
Kyle Dixon

Survey & Right of Way
Traffic Engineering & Data Collection
Environmental Services
Professional Experience
Ms. Krock began her career at ODOT in 1988 where her work experience included almost 15 years as a project and bridge design engineer at ODOT District 5. Duties while in the District 5 Bridge Maintenance Department included bridge analysis, coordinating with bridge inspectors, and working with ODOT bridge crews for in-house replacement of smaller state route bridges. After transferring to the Bridge Design Department, she led design teams on various projects including steel girder bridges, pre-stressed concrete box beam bridges, reinforced concrete slab bridges, and precast box culverts.

Ms. Krock became the majority owner of Smart Services, Inc. in 2011 after the acquisition of Smart Surveying, a land surveying firm based in Newark, Ohio. Her functions include financial management, fiscal responsibility, business representation, project planning and management, marketing, and community and public involvement. Ms. Krock assures implementation of Smart Services’ quality control procedures and performs quality assurance reviews on Smart Services’ projects. Her combination of experiences assures that all Smart Services projects will be successfully completed in a timely and cost-effective manner. Ms. Krock has acquired the State of Ohio EDGE certification and the City of Columbus FBE certification as well as DBE certification for the firm.

Recent Representative Projects

**ODOT District 6, MAR-23-10.63, PID 25597** – This $4M project was awarded by ODOT in 2016. Ms. Krock served as the project manager for Smart Services who was working as a subconsultant to Strand Associates and Pennoni, Inc. This was the first official mentoring project to be sold by ODOT as part of their EDGE development program. Smart Services worked with the prime consultant to deliver design plans for the rehabilitation of 15 bridges in District 6. Construction was completed in 2018.

*Contact: James Hise, PE, Project Manager, Strand Associates, 614-835-0460*

**ODOT District 9, LAW-141-16.18, PID 91413** – Ms. Krock was the project manager for Smart Services as a subconsultant to ADR & Associates to provide surveying and design plans for the replacement of a deficient bridge in District 9. Construction of the $1.3M project was completed in 2017.

*Contact: Ronald Bonnette, PE, PS, Senior Engineer, ADR & Associates, 740-345-1921*

**ODOT District 9, PIK-552-00.00, PID 97243** – Ms. Krock was the project manager for Smart Services to provide surveying and design plans for the replacement of two deficient culverts and the resurfacing of SR 552 in District 9. Construction of the $990K project was completed in 2018.

*Contact: Tom Lefchik, PE, Project Manager, ODOT D-9, 740-773-2691*
Professional Experience

Mr. Smart founded Smart Surveying (Smart Services, Inc.) in 1996 and after the firm was acquired in 2011 assumed the dual role of Vice-President and Director of Survey and Right of Way. Mr. Smart has extensive experience throughout Ohio with boundary and topographic surveys, construction and right-of-way staking, ALTA/ACSM Land Title surveys, route surveys, large scale mapping, bathymetric surveys, control surveys, and GPS surveying. Mr. Smart is extremely proficient at courthouse research, locating difficult to find monuments, and resolving challenging boundaries. He has a proven track record of managing or assisting with managing the survey tasks on numerous ODOT, ODOT LPA, and Municipal roadway, sidewalk, bridge, bikeway, storm water, sanitary sewer, waterline, and right-of-way, design projects. He has directed and managed subconsultants and team members, and cooperated with the efforts of prime consultants. Mr. Smart has taken and successfully completed ODOT’s Right-of-Way Development Training Course. He is a veteran of the U.S. Army Reserves and served overseas during the Persian Gulf War.

Recent Representative Projects

**Columbus Pedestrian Improvements, Worthington Woods, Columbus, Ohio**
Smart Services, Inc. is working as a subconsultant to on the City of Columbus project. The original project scope called for sidewalk installation on the south side of Worthington Woods Boulevard between Sancus Boulevard and Deer Creek Drive. The city recently decided on a project modification to install a 10-foot shared use path in place of the sidewalks. Mr. Smart managed the surveying services for the project and the firm will provide right of way and traffic signal design as well.

*Contact: James Hise, PE, PM, Strand Assoc. 614-835-0460*

**OSU Road & Bridge Improvements FY 2019, Columbus, Ohio**
Mr. Smart and Smart Services worked as a subconsultant to Star Consultants, Inc. to provide surveying and mapping for the OSU Roads and Bridges Improvement FY 2019 projects. The project assessed the condition of various roads on campus and will provide plans and specifications for restoration or replacement of the pavement, curbs, and associated infrastructure.

*Contact: Ali Mustafa, PE, PM, Star Consultants 614-538-8445*

**LIC -Thornwood Crossing, (LIC-CR128-0.97) PID 87642, Newark, Ohio**
Mr. Smart is the project manager for Smart Services as a subconsultant to Gannett Fleming for surveying and right of way services for the Cherry Valley Road Bridge Replacement Project. This $13M project will eliminate the bridge at the hazardous curve on Cherry Valley Road and will divert traffic from the new Cherry Valley road interchange onto Thornwood Crossing across the proposed bridge over Raccoon Creek and through a proposed roundabout.

*Contact: Matt O’Donnell PE, PM, Gannett Fleming, 614-794-9424*
Professional Experience
Mr. Stanhope began his career at Traffic Engineering Services (TES) after receiving his degree from Purdue University in 1995 with a primary focus on traffic engineering and transportation planning. Smart Services acquired TES in 2013 and Mr. Stanhope became the Director of the Traffic Engineering division of Smart Services. He is skilled in all phases of traffic engineering including traffic design, signal operations, traffic studies, safety studies and transportation planning. Mr. Stanhope has been involved in the design of over 70 traffic signals. He has also been the primary author of hundreds of traffic impact and access studies. Mr. Stanhope has a proven track record of providing excellent leadership and project management, and routinely works with local and state agencies and as a subconsultant to large consulting firms.

Recent Representative Projects
CTSS Phases B, C, D, E & F Signal Warrant Studies, Columbus, Ohio Since 2010 Mr. Stanhope has assessed signal warrants for the City of Columbus as a sub-consultant to the engineering firm HNTB, Inc. At over 1000 locations in Phases B, C, D, E & F he identified locations where counts were needed for warrant studies and organized performance of traffic counts, formal warrant studies, and Signal Removal Decision Process - Stage I reports. Counts were used for speed warrants, signal warrants, traffic calming and stop sign warrants. Smart Services also provided survey services for the ongoing project.
Contact: Matt Graf, PE, Project Manager, HNTB Ohio, 614-228-1007

BRO-68-30.72, PID 93801, ODOT District 9
The $2M project provided capacity improvements at the ramp terminals at S.R. 32 and U.S. 68. The project was a design/build contract to restripe the US 68 bridge over SR 32 and to build left turn lanes, make radius improvements, and install traffic signals at the ramp interchanges. Smart Services’ scope included the design of two traffic signals, and provision of coordination timing and evaluation for four intersections during six time periods. The timing plans were produced using Synchro and drive-throughs were performed with a Sony Action Cam which records GPS coordinates. These coordinates were imported into TruTraffic, the data summarized, and time-space diagrams presented in a final report. Mr. Stanhope presented this project at the Ohio Transportation Engineer’s Conference in 2016.
Contact: Patricia Wetzel, PE, Traffic Engineer, ODOT D-9, 740-774-8983

City of Dublin Traffic Count Services, Dublin, Ohio
Mr. Stanhope recently provided traffic count reports for the City of Dublin. Traffic counts were performed at several high volume intersections throughout the city using Miovision cameras. Vehicles were classified and pedestrians were counted as well.
Contact: Tina Wawszkiewicz, PE, Engineer, City of Dublin, 614-410-4636
Professional Experience
Mr. Strain joined Smart Services in 2014 as the Director of Environmental Services. Since beginning his career in 1983 Mr. Strain has developed extensive knowledge of all aspects of the National Environmental Policy Act (NEPA) including preparation of Environmental Assessments (EA), Environmental Impact Statements (EIS), Categorical Exclusions (CE) and other NEPA documentation, baseline biological assessments, and Habitat Evaluation Procedure (HEP) analyses; threatened and endangered species surveys and critical habitat assessments; wetland and stream evaluations; cultural resource investigations; and vegetative community surveys. Mr. Strain’s expertise is in wetland science, including delineation, creation, and restoration of wetlands for mitigation and wildlife habitat, Clean water Act Section 404 and 401 permitting, and design of constructed wetland treatment systems.

Recent Representative Projects

**ODOT Statewide Mitigation Credit / In-Lieu Fee Services Task Order, PID 103864**
Smart Services was selected as the consultant to facilitate, on the behalf of ODOT, the acquisition of stream, wetland, or other types of environmental mitigation credits at approved mitigation banks and/or in-lieu fee programs. The need for said credits is to satisfy ODOT mitigation obligations resulting from Clean Water Act, Endangered Species Act, or other state or federal mitigation requirements.

*Contact: Matt Perlick, Asst. Admin., ODOT Environmental Services 614-466-1937*

**University of Notre Dame / NiSource Pipeline, St. Joseph County, Indiana**
Mr. Strain prepared permit applications and documentation for submittal to the United States Army Corps of Engineers (USACE), Detroit District, and Indiana Department of Environmental Management (IDEM), pursuant to the requirements of CWA Sections 404 and 401 and the Indiana Isolated Wetland Permit Program. Project impacts met Nationwide Permit (NWP) No.12, Utility Line Activities and only required Pre-discharge Notification (PCN) and a general permit known as an Isolated Wetland General Permit (IWGP).

*Contact: Pat Nortz, PE, Project Manager, Otisco Engineering, 216-276-6354*

**East Reservoir Dam Improvements, Portage Lakes State Park, Summit County, Ohio**
Mr. Strain provided Section 404 permit coordination and documentation and the drafting of PCN documents for USACE as a subconsultant to TetraTech on the $40M Ohio Department of Natural Resources project.

*Contact: Pete Nix, PE, Project Manager, Tetra Tech, 614-289-0112*

**Wetland Permit Coordination, Clermont County Department of Economic Development**
Mr. Strain provided wetland permit coordination and documentation for the South Afton Commerce Park in Clermont County. He also prepared the necessary permits for submittal to the USACE and Ohio Environmental Protection Agency.

*Contact: Andy Kuchta, Director, Clermont County CIC, 513-732-7150*
Patrick Wilson, PE  
Project Engineer

Mr. Wilson joined Smart Services in 2013 and is a project engineer on right-of-way, traffic and bridge projects. His previous experience includes time with the Licking County Engineer’s Office where he assisted in the load rating and inventory of bridges. He has a BS in Civil Engineering from The Ohio State University and worked for 7 years in the Ohio State Information Technology Services Department. Mr. Wilson has assumed a variety of engineering duties at Smart Services. He has been involved in plan preparation for a variety of right of way, roadway, bridge, culvert and traffic projects.

Mr. Wilson has also prepared basemaps in MicroStation for design projects and has worked with our survey crews in performing topographic and boundary surveys. Mr. Wilson has also performed hundreds of traffic counts and has been responsible for post processing traffic count data and reviewing data for accuracy and has assisted the lead traffic engineer with the design of many traffic signals. He recently completed the plan preparation of the PIK-552-00.00 culvert and roadway plans and the MAR-23-10.63 bridge plans. Mr. Wilson is also ODOT prequalified as a Complex Right of Way designer.

Taylor Schoepf, SI  
Field Crew Leader

Mr. Schoepf graduated in 2016 with a BS in Civil Engineering and a minor in Surveying from The Ohio State University and worked as an intern for 3 years before joining the firm full time. He is responsible for the field and office work associated with our Trimble SX10 Total Scanning Station. With Mr. Schoepf’s background in Civil Engineering and Surveying he is valuable in combining an understanding of the design needs of a project while providing excellent survey services to our clients.

Nick Mason  
Design Technician

Mr. Mason joined the firm in September 2018. He offers support to our professional surveyors and engineers utilizing AutoCad and Civil3D. Mr. Mason attended The Ohio State University and graduated with honors from Central Ohio Technical College with an associate degree in Civil Engineering and Architectural Design.

Kyle Dixon  
Environmental Scientist

Mr. Dixon is a versatile member of the Smart Services team. Mr. Dixon received his BS in Environmental Science from The Ohio State University. He joined Smart Services in 2014 and has worked in field data acquisition and as a survey crew leader. Mr. Dixon also works with our environmental specialist in preparing environmental assessments and provides survey services for the firm’s environmental projects. He is highly capable in the use of Trimble S7 Robotic DR Plus Total Station, R8 GPS System and AutoCad.
James Watts  
Field Crew Leader  
Mr. Watts began his career with Smart Surveying and joined Smart Services in 2011 with considerable experience in field data acquisition. He has developed innovative approaches to solving complex issues in the field and has extensive experience throughout Ohio with boundary and topographic surveys, construction and right-of-way staking, ALTA/ACSM Land Title surveys, route surveys, large scale mapping, bathymetric surveys, and control surveys. He has a proven track record of completing survey tasks on numerous ODOT, ODOT LPA, and Municipal projects.

Ryan Jacquot  
UAV Pilot & Survey Technician  
Mr. Jacquot joined Smart Services in 2018. He has a bachelor’s degree in Communication Technology from The Ohio State University. Mr. Jacquot provides support to our surveyors and engineers and assists in the office with the preparation of business development materials for the firm. Mr. Jacquot is an FAA certified Part 107 Remote Pilot and is the lead pilot of our LiDAR Scanning UAV.

Gerald Wilcox, P.E., P.T.O.E.  
Traffic Engineer  
Mr. Wilcox has decades of experience in traffic engineering and transportation planning. He graduated from Ohio Northern University with a degree in Civil Engineering in 1964 and has managed thousands of projects over his career in all phases of traffic engineering and transportation planning from data collection to long range comprehensive planning. Mr. Wilcox formed Traffic Engineering Services, Inc. (TES) in 1986. He was responsible for the design of over 100 traffic signals, prepared numerous traffic studies and has collected or supervised the collection of hundreds of traffic counts. In 2013, Smart Services acquired TES and his experience is primarily utilized for study development and Quality Control reviews. He serves as a valued advisor to the younger engineers at Smart Services.

Ken Dillon  
Survey Technician  
Mr. Dillon joined Smart Services in 2019. He is a veteran of the US Army and assists our survey crew leaders in the field.

John Dodgion, PS  
Survey Manager  
Mr. Dodgion joined Smart Services in 2020. He is a graduate of The Ohio State University having received a bachelor’s degree in Surveying in 1998. Mr Dodgion is licensed in Ohio and Kentucky. He has extensive experience managing survey and right of way projects throughout Ohio.

Tom Collins  
Engineering/Surveying Intern  
Mr. Collins graduated in 2020 with a BS in Civil Engineering and a minor in Surveying from The Ohio State University and worked as an intern for Smart Services for a year before joining the firm full time.
We stand behind our work and are proud of our success in meeting project deadlines and budgets.

Many of our clients are repeat clients which is a testament to our ability to complete projects to the satisfaction of our clients. Smart Services has never had a contract terminated or a claim against the firm.

Below is a brief list of individuals and firms with whom we have worked that may be contacted as a reference.

**Tom Warner, PE Owner - Advanced Civil Design, Inc. 614-428-7750**  
(Traffic Signal Design, Traffic Studies and Counts)

**Tina Wawszkiewicz, PE Traffic Engineer - City of Dublin 614-410-4636**  
(Traffic Counts)

**Jared Knerr, PE County Engineer - Licking County 740-670-5280**  
(Surveying & Right of Way Services)

**Pete Nix, PE Engineering Program Manager - TetraTech Inc. 614-289-0117**  
(Surveying, Right of Way, and Environmental Services)

**Katie Zehnder, PE Ohio Office Leader - HNTB Ohio, Inc. 614-228-1007**  
(Traffic Engineering & Counts, Surveying & Right of Way Services)

**James Hise, PE Project Manager - Strand Associates 614-835-0460**  
(Surveying & Right of Way, Traffic Engineering Services)

**Patricia Wetzel, PE Traffic Engineer - ODOT District 9 740-774-8983**  
(Traffic Engineering and Surveying Services)

**Ryan Bollo, PE Traffic Engineer - City of Columbus 614-645-3946**  
(Traffic Engineering & Counts, Surveying & Right of Way Services)

Traffic Study Reviewers

**Dan Blechschmidt, PE Traffic Engineer - City of Columbus 614-645-1694**

**Mike Love, PE Deputy Development Engineer - Delaware County 740-833-2428**

**Thomas Camden, PE Studies Supervisor - ODOT District 10 740-568-3903**
FRA-70-20.29 (PID109659)  
Columbus, Ohio  
Smart Services is currently completing the survey tasks for the bridge deck replacement project as a subconsultant to OHM. Survey tasks are being completed using a SX10 Scanning Station as well as a LiDAR Scanning UAV.

LIC-79-03.98 (PID108770)  
Buckeye Lake, Ohio  
Smart Services is a subconsultant for survey and right of way services for the ODOT LPA project in Buckeye Lake. The project will replace two deficient bridges with one bridge at the entrance to a commercial development. Intersection improvements and the addition of sidewalks are also included.

LIC-79-9.149 Emergency Culvert Construction Staking  
Heath, Ohio  
Smart Services recently provided construction staking for the emergency project in ODOT District 5 and the city of Heath after extreme flooding washed out a culvert on SR79.

ASD-095-03.60 (PID105579)  
Ashland County, Ohio  
Smart Services recently completed the survey tasks for the ODOT District 3 project to replace a deficient bridge over Honey Creek utilizing Open Road Designer.

MAD-142-13.41 L/R over I-70 (PID 104240)  
Madison County, Ohio  
Smart Services completed the surveying services as a subconsultant to ADR & Associates for the ODOT District 6 project to replace decks, parapets, and approach slabs on the bridges over Interstate 70.

FAY-041-00.47/02.32 (PID 98139)  
Fayette County, Ohio  
SMART completed the surveying services for the ODOT District 6 project as a subconsultant to ADR & Associates. This project will replace two culverts and a gabion wall.

MAR-S Greenwood (PID103346)  
Marion, Ohio  
SMART provided the survey and right of way services for the ODOT LPA project to stabilize an existing stone arch carrying South Greenwood Street in the City of Marion.

WAS-7-7.25 (PID 108341)  
Belpre, Ohio  
As a subconsultant to Strand Associates, SMART completed the surveying for the ODOT LPA project to upgrade 3 signal locations in the City of Belpre.
VAR - D10 - General Engineering Services ER 2018-3
Smart Services was on the Tetra Tech team to provide General Engineering Services on a task order basis in District 10 to assist the District in preparation of plans and related documents for Emergency Flood Event Projects (Landslides). The work includes survey, detailed plan preparation, preparation of right of way plans, geotechnical, and completion of selected environmental documents. Smart Services provides surveying and preparation of right of way plans as well as any needed environmental services.

Districts 4 & 11 Survey and Right of Way Task Order
Smart Services was a subconsultant to Thomas Fok & Associates for the ODOT District 4 & 11 Survey Task Order (PID 97698/105469) in 2016 and 2018. Smart Services completed right of way plans for SUM-162/162D-2.21/0.00 (PID 103171) and ATB – 307 (PID 106705), a $1.1M culvert project which consisted of multiple culverts on SR 307. In addition, field crews were mobilized for three culverts on ATB-307 and field work and basemapping completed per ODOT Survey and Mapping Specifications. Additional projects included: BEL-148-17.73 (PID108187); CAR-542-12.63 (105469); HAS-342-.1.79 (110744); MAH/TRU-46-16.64 (PID102103); STA-687-03.03 (PID111011) and STA-77-01.27 (PID106143). Thomas Fok mentored Smart Services in Task Order Management on the 2016 Task Order.

Recent Landslide Project Surveys
- Village of Bellaire, Robinson Avenue
- Martins Ferry, 8th Street
- MOE-CR81-0.25, 1.55, 2.07, & 2.87
- MOE-CR12-11.10
- MOE-TR999-0.33
- MOE-536-2.84 (PID 107936)
- MRG-CR3-4.30 (PID 108546)
- MRG-CR2A-0.48 (PID 106387)
- MRG-CR2 Stockport
- PER-155-6.42
- PER-CR16-3.80
- PER-CR12-0.10
- PER-CR12-6.80
- MOE-CR11-1.70
- MOE-CR11-0.19
- MRG-CR18
- MRG-CR2 @TR23
- MOE-CR81-1.50
- MOE-CR43-3.96
- MOE-CR43-0.31
- MOE-CR43-0.73
- VIN-CR25 Wolf Hill Road
- MOE-CR43-1.87, 7.87
- MRG-CR100 Echo Hill Road
- MOE-CR85-0.59
- WAS-CR17 @ Grub Road
- WAS-TR161-0.23
- WAS-TR466-1.61
- MOE-CR43-7.40
- MOE-CR43-7.50
- MOE-CR22-1.20
Church Street Storm Sewer Trunk Line Replacement
Newark, Ohio
In 2015 the City of Newark, Ohio replaced a storm sewer trunk line along Church Street through the intersection at 30th Street. Smart Services Inc. and ADR & Associates teamed to provide engineering and design plans for a signal modification at the intersection and surveying and right of way services. Smart Services prepared a boundary and topo basemap for use in design showing all located features, existing utilities, one-foot contours, the existing right-of-way with centerline alignment, and adjacent property lines and owners. The Smart Services field staff located existing right-of-way and property lines, existing roadway with cross sections at 50’ intervals as well as intersection details, existing visible utilities along with line locations based on utility plans, other existing above ground features, fronts of existing houses/buildings along the route, and ground shots to generate one-foot contours. Horizontal and vertical control points were established as well as elevations along the path of the proposed drainage. Smart Services provided legal descriptions and right of way plans for proposed right-of-way takes and proposed easements as requested for the $2M project.

UIRF Sidewalks and Roadway 2017
City of Columbus
As a subconsultant to Strand Associates, Smart Services completed the surveying services for the City’s Urban Infrastructure Recovery Fund (UIRF) project which included establishment of project control, benchmarks, and reference points; topographic survey and base mapping; and determination of property lines, ownership and right-of-way encroachments at seven locations throughout Columbus. Smart Services also provided right-of-way plans for the project.

Route Survey for Sidewalk Improvements, McCutcheon Road (3200 lineal feet) and Reed Road (4500 lineal feet)
Columbus, Ohio
A topographic survey was completed for design of sidewalks, curb ramps, and traffic signal accommodations and included location of all visible improvements, utilities, contours, boundary lines, right-of-way determination, and horizontal and vertical control for the $1.4M project. Mr. Smart directed and reviewed field work (QA/QC), performed office calculations and research, reviewed drafting, and performed survey control calculations based on ODOT project control specifications.

LIC-SR16-18.20 Eastbound Exit Ramp Improvements
Newark, Ohio
Smart Services provided the topographic survey, basemapping and right of way services for the Newark, Ohio project. The exit ramp was widened in 2017 to accommodate a right turn lane onto Church Street.
Springfield Air National Guard Base Topographic Survey
Springfield, Ohio
In 2018, Smart Services completed a topographic survey of the Springfield Ohio Air National Guard Base Building 151 as a subconsultant to Tetra Tech. The scope included project control, contours and elevation (digital surface model of the existing ground to generate one-foot contours and establish existing finished floor elevations at entry locations), drainage features, planimetric features, utilities and landscaping.

Newark Interceptor Siphon Optimization Project
Newark, Ohio
Smart Services, as a subconsultant to Hazen & Sawyer, provided surveying services for the City of Newark project. The project involved a field survey of junction chambers, pump stations and siphons as well as the laser scanning of the inside of fourteen Combined Sewer Overflow (CSO) structures to provide dimensions and elevations for upgrades.

BRO-68-30.72, PID 93801
ODOT District 9
The purpose of the project was to provide capacity improvements at the WB and EB ramp terminals at S.R. 32 and U.S. 68. The project was a design/build contract to restripe the US 68 bridge over SR 32 and to build left turn lanes, make radius improvements, and install traffic signals at the ramp interchanges. As part of the Design/Build Team, Smart Services’ scope included surveying and the design of two traffic signals. Construction was completed in 2015.

Local Bridge Replacement Surveys

City of Newark Bridges
- Cherry Valley Road for Gannett Fleming
- Church Street Bridge for ADR & Associates
- Ohio Street Bridge for Burgess and Niple
- Manning Street Bridge for Burgess and Niple

Licking County Bridges
- TWP-320, TWP-303, TWP-7 and LIC-CR128-0.97 for Gannett Fleming
- 30th Street Storm Sewer & Roadway for ADR & Associates
- York Road Emergency Bridge Replacement for ADR & Associates

Kirkersville Feeder Canal Improvements, Kirkersville, Ohio
Smart Services provided field surveying, bathymetric surveying, and base mapping services for the ODNR channel improvement project located near Buckeye Lake.
HAS-CR51-5.51 Right of Way Plans, PID 99473

Harrison County, Ohio
In 2017, Smart Services completed Preliminary and Final Right-of-Way plan development submittal packages for RETTEW Associates for the bridge replacement project over the Gennessee & Wyoming Rail Line.

Aberdeen Drive Waterline Improvement Project (5100 lineal feet), Steubenville, Ohio
In 2015, as a subconsultant to ADR and Associates, Smart Services provided surveying services for the waterline improvement project. Smart Services completed a topographic survey, established site control for construction, determined existing roadway alignments and established right of way for the project.

Construction Staking, OSU Warner Library
Newark, Ohio
Smart Services completed Construction Staking of the $20 Million OSU Warner Library and Student Center. Smart Services was responsible for the highly accurate layout of 121 support column locations, foundations, sidewalks and parking areas.

Survey and Construction Staking for Site Development

Licking County Library
- Main Library Renovation for Robertson Construction
- OSU Newark Maintenance Facility
- Etna Elementary
- Johnstown Elementary
- Hinderer Honda

For ADR & Associates
- Newark City Schools White Field Improvements
- Licking County Park District Canoe Launch
- Middleton Senior Living, Granville
- Kendal at Granville
- Village Roots

For Summit Construction
- Chillicothe Elementary School

For RW Setterlin
- COTA Easton Transit Center
- McKinley Ave Phase 3A
- Krieger Court CNG Facility

For Granville Village Exempted School District
- Granville High/Middle School Campus Mapping

For Warren Local Schools
- Warren High/ Middle School Campus Mapping

For Nuway Inc.
- Johnstown Elementary Early Site Development
- Johnstown High School Early Site Development
Miami University Traffic Counts  
City of Oxford, Butler County, Ohio
In 2016, Smart Services performed traffic counts as a subconsultant to Michael Baker International throughout the campus to be used in a traffic study. 13-Hour Turning Movement Counts were performed at 18 intersections. Counts included classification of vehicles (Cars, Trucks, and Bicycles on Road) and pedestrians/bicycles were counted in the crosswalks. This project also included pedestrian counts at multiple mid-block pedestrian crossings on the campus.

US 6 Corridor Planning Study  
Erie County, Ohio
In 2018, Smart Services provided traffic counting services as a subconsultant to Transystems for the Erie Regional Planning Commission. Smart Services provided multiple turning movement counts and link counts along US 6 for the study to evaluate transportation alternatives for the high volume corridor near Cedar Point.

CRAA Validation Study, John Glenn International Airport  
Columbus, Ohio
In 2018, Smart Services was a subconsultant to WSP to provide traffic counts at the airport. Smart Services provided turning movement counts and link counts at numerous locations on International Gateway. These locations included roadway intersections and entrances to airport parking lots. In 2019, Smart Services returned to provide 96-hour link counts and weave counts at the Ticketing & Check in (Level 2) curb area and the Baggage Claim/Pasenger Pick Up (Level 1) curb area. Classification of vehicles was performed on the link counts. The results were provided in graphical form for each curb front.

Sawmill Road & Snouffer Road Intersection Analysis  
Columbus, Ohio
In 2016, as a subconsultant to CH2M Hill, Smart Services conducted turning movement counts at the Sawmill Road & I-270 (SPUI) interchange. Weekday-Saturday turning movement counts were also performed at multiple signalized intersections with classification of vehicles and pedestrians counted. Weekday-Saturday inbound and outbound volumes were taken at 7 unsignalized intersections.

MORPC Regional Model Validation Task Order  
Columbus, Ohio
Smart Services provided traffic counting services for the Mid-Ohio Regional Planning Commission, completing 10 task orders under the extended contract through 2017. Over 600 counts were performed and included vehicle volume counts, classification counts, and turning movement counts.

Morse Road Traffic Counts  
City of Columbus, Franklin County, Ohio
In 2017, counts were taken in the Morse Road Study area near Easton Loop, Stelzer Road, Cherry Bottom Road and the I-270 ramps. One-week link counts were provided at one location and link counts for a weekday were provided at 8 locations.
Dublin 161-33-Post-Frantz Intersection Study
City of Dublin, Franklin County, Ohio
Some of these counts were taken within an active work zone which required coordination in the field with the contractor as to where cameras could be mounted. In 2016, turning movement counts were taken at 5 signalized intersections with multiple approach counts. Link counts were taken on all eight ramps at the I-270 & US 33/SR 161 interchange with classification of vehicles.

Traffic Signal Design, Village of Coldwater
Mercer County, Ohio
Smart Services produced construction plans to ODOT standards as part of a planned street light project where the Village of Coldwater upgraded the existing traffic signal at 2nd Street (SR 118) & Vine Street. The signal design had mast arms with luminaires and matched to the extent possible the existing signal installations at 2nd Street (SR 118) & Main Street (SR 219) and Main Street (SR 219) & Market Street. Accessible pedestrian signals were incorporated into the design.

In addition, construction plans were produced to modify the signal at 2nd Street (SR 118) & Main Street (SR 219) to include Accessible Pedestrian Signals (APS). To accomplish this, four additional pushbutton locations were established as part of the signal modification. Counts were obtained with MioVision cameras and a signal warrant analysis was performed.

JEF-43-07.42
Wintersville, Ohio
Construction plans were prepared for two new traffic signals on SR 43 at Two Ridge Road and SR 646. The project also included modification to the two existing traffic signals at the US 22 & SR 43. The signals were interconnected with the existing signals at the US 22 & SR 43 interchange and an on-street master installed so a closed loop system was established.

West Lane Avenue Sidewalks
Columbus, Ohio
Construction plans were prepared for new traffic signal installations at the SR 315 ramps and Lane Avenue. The project also included a modification to the traffic signal at Lane Avenue and Kenny Road to add pedestrian signals and a westbound dual left turn phase.

MER-127-13.33
Celina, Ohio
Construction plans were prepared for six traffic signals for the ODOT-let project. The signal installation utilized mast arms with decorative poles and bases. Timing plans were developed for signal coordination.
Coughlin Crossing, Delaware Development, LTD
Delaware County, Ohio
Smart Services was asked to facilitate the environmental processes for the planned development. Historical structures and wetlands were present on the site. Smart Services provided the following services and obtained permit approval from the Corp of Engineers:

- Wetland Bank Coordination
- MOA Coordination and Compilation
- Threatened and Endangered Species
- PCN Documentation and Preparation
- NHPA Collection and Reporting
- Isolated Wetland Application Preparation
- Pre- and Post-Submittal Coordination

Phase 1 Environmental Site Assessment, Licking County Board of Commissioners
Newark, Ohio
Smart Services completed a Phase I Environmental Site Assessment (ESA) for the Licking County Board of Commissioners at a site in the downtown business district in Newark, Ohio for an expansion of county facilities.

Wetland Delineation
Clermont and Brown Counties, Ohio
Smart Services recently completed a Waters of the U.S. (WOUS), including wetlands, delineation for the development of a proposed plan to develop the proposed 600-acre Nestlewood Solar development for Tetra Tech, Inc. located along Vandament Road, Tate Township, Clermont/Brown Counties, Ohio. The purpose of the delineation for the Site was to facilitate future development by identifying WOUS, including wetlands, which might require permitting under the federal CWA. The majority of the non-agricultural portion of the Site was wooded, with 61.3 acres considered jurisdictional forested or scrub/shrub wetland habitat and classified as Category 2 wetland. Emergent wetland was limited to 0.7 acres and was considered Category 1 wetland.

Jefferson County Trails Implementation Guidelines
Jefferson County, Ohio
Smart Services provided guidance in the preparation of the environmental guidelines section as a subconsultant to ADR & Associates. The handbook was prepared for the Brooke, Hancock & Jefferson Metropolitan Planning Commission as a guide for the development of greenways, bikeways and trails in Jefferson County.

Proctor Center Wetland Mitigation Bank
London, Ohio
Smart Services provided the wetland delineation, assessment and report for the Proctor Center in London, Ohio and created a conceptual mitigation plan as well. The firm will continue to provide assistance with plans to create a wetland mitigation bank.
ENVIRONMENTAL PROJECTS

ODNR Long Lake Dam Replacement
Summit County, Ohio
Smart Services prepared the 401/404 permit application for this project to replace the existing Long Lake Dam in Portage Lakes State Park with a new structure. The existing 105-foot long gate was in very poor condition and had to be replaced. The new structure used the same sized gates as the existing structure. This requirement resulted in the need for staged cofferdams, demolition, and construction.

ODNR North Reservoir Dam Improvements
Summit County, Ohio
The North Reservoir Dam was a high-hazard embankment dam with severe spillway deficiencies located in the Portage Lakes System. The North Reservoir has 165 surface acres with a 10-foot average depth. Smart Services was on the team to provide environmental services for this project as a subconsultant to Tetra Tech, Inc. for their ongoing dam and spillway design project. Services included:

- A Waters of the US (WOUS), including wetlands, delineation was conducted which included a stream survey. Results of the habitat evaluation and survey was used to characterize existing conditions and proposed impacts, and to develop appropriate mitigation for unavoidable stream impacts.

- Historical/Cultural Resource Investigation: Because of the phased approach for this project the Smart Team needed to complete two Historical/Cultural Resource Investigation for the project, one for Phase I and one for Phase II.

- Threatened and Endangered Species Survey

- Federal and State CWA Section 404/401 Permit Package Preparation including PCN for the NWP for Phase I and an IP for Phase II, for review by Tetra Tech and Ohio Department of Natural Resources (ODNR) prior to submittal to USACE and OEPA.

- Permit Coordination including meetings with USACE, OEPA and SHPO officials to discuss permitting issues and options.