TOWN OF SPEEDWAY

SPEEDWAY TOWN COUNCIL

Speedway Municipal Center
James A. Allison Public Meeting Room
5300 Crawfordsville Rd. | Room 005

TOWN COUNCIL MEETING AGENDA
JANUARY 22, 2024 | 7:00 PM
PLEASE CONNECT TO THE LIVE BROADCAST ON YOUTUBE:
https://youtube.com/live/7AD0KNGPWso?feature=share

1. **PLEDGE OF ALLEGIANCE**
   - ADVISE ATTENDEES TO SILENCE OR TURN OFF THEIR CELL PHONES
2. **MINUTES –** APPROVAL OF MINUTES OF THE JANUARY 8, 2024 MEETING
3. **MOTION TO APPROVE THE PURCHASE OF AN AUTOMATED MOWER FOR THE STREET DEPARTMENT** – GRANT KLEINHENZ
4. **APPROVAL OF QUOTE FROM NATIONAL WATER SERVICES FOR THE REHABILITATION OF WELL #15** – GRANT KLEINHENZ
5. **APPROVAL OF A USAGE AGREEMENT WITH THE MARION COUNTY ELECTION BOARD FOR THE USE OF THE SPEEDWAY MUNICIPAL CENTER FOR PRIMARY AND GENERAL ELECTIONS IN 2024** – GRANT KLEINHENZ
6. **APPROVAL OF SELECTION OF CONSULTING FIRM FOR THE CSO EXPANSION PLANNING AND DESIGN SERVICES REQUEST FOR PROPOSAL** – GRANT KLEINHENZ
7. **APPROVAL OF APPOINTMENT TO THE METROPOLITAN PLANNING ORGANIZATION POLICY AND TECHNICAL COMMITTEES** – GRANT KLEINHENZ
8. **APPROVAL OF CLAIMS AND UTILITY ADJUSTMENTS –** PHILIP FOUST
9. **Town Manager Report** – Grant Kleinhenz
10. **REPORT FROM COUNCIL MEMBERS**
    COUNCILOR NICK STURGEON
    COUNCILOR VINCE NOBLET
    COUNCILOR SEAN HARROLD
    COUNCILOR SARAH GARDNER
11. **REPORT FROM COUNCIL PRESIDENT** – JASON DELISLE
12. **ADJOURNMENT**

MINUTES OF THE SPEEDWAY TOWN COUNCIL MEETING OF JANUARY 8, 2024

The meeting was called to order by Council President Vince Noblet at 7:00 PM. Other Councilors present were Jason DeLisle, Sarah Gardner, Sean Harrold, and Nick Sturgeon.

1. The Pledge of Allegiance was led by Council President Noblet.

2. The Minutes of the December 27, 2023, Town Council meeting were approved as presented.

3. The Memorandum of the January 2, 2024, Town Council executive session was approved as presented.

4. **ELECTION OF PRESIDENT AND VICE PRESIDENT**

Councilor DeLisle was nominated for President by Councilor Sturgeon and was approved four to zero with Councilor DeLisle abstaining. Councilor Sturgeon was nominated for President by Councilor DeLisle and was approved four to zero with Councilor Sturgeon abstaining.

5. **BOARDS & COMMISSIONS APPOINTMENTS**
   a. *Arts Council:* Councilor Gardner nominated Chris Nusbaum, Marge Graham, Peggy Nommay, and Meg Nusbaum for appointment to the Arts Council. A vote was taken, and the appointments were approved five to zero.
   b. *Cable Commission:* Councilor Sturgeon nominated Theodore Howlett and Zach Taylor for appointment to the Cable Commission. A vote was taken, and the appointments were approved five to zero.
   c. *Community Development Corporation:* Councilor Harrold nominated John Reller for appointment to the Community Development Corporation. A vote was taken, and the appointments were approved five to zero.
   d. *Housing Advisory Council:* Council President DeLisle nominated Anthony Ramion, David Meador, and Leia Foster for appointment to the Housing Advisory Council. A vote was taken, and the appointments were approved five to zero.
   e. *Parks Board:* Councilor Gardner nominated Gillian Fletcher and Mackenzie Laskowski for appointment to the Parks Board. A vote was taken, and the appointments were approved five to zero.
   f. *Public Transportation Board:* Councilor Noblet nominated Ron Fisher, Dean Butz, and Cindy Hahn for appointment to the Public Transportation Board. A vote was taken, and the appointments were approved five to zero.
   g. *Speedway Redevelopment Commission:* Councilor Harrold nominated Jennifer Miller, Rhonda Schwartz, Adam Young, Christine Meador, and Jacob Blasdel for appointment to the Speedway Redevelopment Commission. A vote was taken, and the appointments were approved five to zero.
   h. *Solid Waste Board:* Councilor Noblet nominated Rhea Cain and Christi Foust for appointment to the Solid Waste Board. A vote was taken, and the appointments were approved five to zero.
   i. *Stormwater Management Board:* Councilor Sturgeon nominated Hayden Flynn, Bob Staton, and Vince Noblet for appointment to the Stormwater Management Board. A vote was taken, and the appointments were approved four to zero with Councilor Noblet abstaining.

j. *Police Commission:* Councilor Sturgeon nominated Benny Grove for appointment to the Police Commission. A vote was taken, and the appointment was approved five to zero.
k. *School Board:* Council President DeLisle nominated Laura Daghe for appointment to the School Board. A vote was taken, and the appointment was approved five to zero.
l. *Speedway Redevelopment Authority:* Councilor Harrold nominated Sarah Wilson for appointment to the Speedway Redevelopment Authority. A vote was taken, and the appointment was approved five to zero.
m. *Library Board:* Councilor Gardner nominated Jennifer Tiffany for appointment to the Library Board. A vote was taken, and the appointment was approved five to zero.
n. *Board of Zoning Appeals:* Councilor Noblet nominated Hayden Flynn and Robert Hodge for appointment to the Board of Zoning Appeals. A vote was taken, and the appointments were approved five to zero.

6. Declaration Of 2024 Town Council Meeting Schedule

Town Manager Grant Kleinhenz presented the details regarding the proposed meeting schedule. Councilor Sturgeon made a motion to approve schedule, which received a second from Councilor Noblet. A vote was taken, and the schedule was approved five to zero.

7. Resolution No. 2024-01: A Resolution Declaring Qualified Publications

Town Manager Kleinhenz presented the details regarding the resolution. Councilor Noblet made a motion to approve the resolution, which received a second from Councilor Sturgeon. A vote was taken, and the resolution was approved five to zero.

8. Approval Of Lobbying Services Agreement With Faegre Drinker Biddle & Reath LLP

Town Manager Kleinhenz presented the details regarding the proposed agreement. Councilor Noblet made a motion to approve the agreement, which received a second from Councilor Sturgeon. A vote was taken, and the agreement was approved five to zero.

9. Approval Of Master Services Agreement For 2024-2025 With Wessler Engineering For On-Call Stormwater Review

Town Manager Kleinhenz presented the details regarding the proposed agreement. Councilor Noblet made a motion to approve the agreement, which received a second from Councilor Gardner. A vote was taken, and the agreement was approved five to zero.

10. Approval Of On-Call Planning And Engineering Services Agreement For 2024-2025 With Kieser Consulting Group LLC

Town Manager Kleinhenz presented the details regarding the proposed agreement. Councilor Harrold made a motion to approve the agreement, which received a second from Councilor Gardner. A vote was taken, and the agreement was approved five to zero.

11. Approval Of Claims And Utility Adjustments

The Clerk-Treasurer submitted claims identified in the accounts payable vouchers for the period of December 21, 2023, through January 3, 2024, to the Council for review and approval. Councilor Sturgeon made a motion to approve the claims, which received a second from Councilor Noblet. A vote was taken, and the claims were approved five to zero.

REPORTS

A report was given by Communications Director Cheryl McElroy.
A report was given by Police Chief Chuck Upchurch.
A report was given by Fire Chief Bob Fishburn.
A report was given by Parks and Recreation Director Tammy Smith
A report was given by Water Superintendent Ronnie Smith.
A report was given by Town Manager Grant Kleinhenz.
A report was given by Councilor Sarah Gardner.
A report was given by Councilor Sean Harrold.
A report was given by Councilor Vince Noblet.
A report was given by Councilor Nick Sturgeon.
A report was given by Council President Jason DeLisle.

Council President DeLisle adjourned the meeting at approximately 7:57 PM.

_____

Jason DeLisle, Council President

_____

Philip Foust, Clerk-Treasurer

December 15, 2023
NWS Quote #121523-16
Attn: Mr. Ronnie Smith
Speedway Water
5300 Crawfordsville Rd
Speedway, IN 46224
rsmith@speedwayin.gov

Re: Well # 15 Rehabilitation

Dear Mr. Smith:

As you are aware, we removed the pumping unit from well 15 yesterday (see attached pictures) and found that the pump was completely plugged off with iron. The well also has approximately 4' of fill in the bottom of the screen and we would expect the well screen to be as severely plugged as the pumps intake. It is our recommendation that the well be rehabilitated to open the screened area and surrounding formation prior to installing a new pump and motor. Not doing so would cause the new pump and motor to fail prematurely and become a reoccurring event.

Therefore, National Water Services, LLC is pleased to provide the following quotation for your consideration.

We will furnish all necessary equipment and personnel to perform the following scope of work:

- Mobilize to the site and conduct a down-hole video of the well to ensure the integrity of the well casing and screen.
- Following the video, we will set up and airlift the sediment out of the well to allow the chemicals to reach the screens surface and flow through to the formation when introduced to the well.
- We will set up out HVI equipment and begin the rehabilitation process which will include three chemical treatments with intermittent pumping tests to show the improvements being made.
- At the end of the third scheduled treatment, we will conduct a pumping test to determine the capacity of the well, depending on the results we may recommend an additional treatment to increase production of the well even more.
- The HVI equipment will be removed from the well and a post treatment downhole video will be conducted documenting the result of the process.

Cost of above scope	*$27,500.00*
Cost of optional additional treatment	**$4,500.00**

Note: We will utilize the existing power at the well to operate our pumping equipment. The pump will run overnight to remove the encrustation loosened up during the treatment.

At the end of the process, we will select a new permanent pump based on the results of the rehabilitation. Pricing for that pump and motor and installation will be priced on a separate proposal.

During our meeting we discussed simply airlifting the sediment out of the well following the video as a temporary fix, but given the severe plugging of the pumps intake, we don't feel that is a viable option and would result in the premature failure and additional costs of a new pump and motor.

National Water Services, LLC is looking forward to providing these services to Speedway Water. If you have any questions or would like to discuss this proposal in more detail, please do not hesitate to contact us at your convenience.

Note: National Water Services (NWS) will review all quotations at the time of order entry to ensure pricing has not changed. If pricing has changed, then NWS will advise Customer of the new price within two days after receiving Customer's order. Thereafter, Customer will have three days to accept NWS's new price or the order may be cancelled. For orders that are going through the submittal process, NWS will review all pricing at the time of approval to ensure that pricing has not changed. If pricing has changed, then NWS will advise Customer of the new price within two days of approval. Thereafter, Customer will have three days to accept NWS's new price or the order may be cancelled.

Respectfully,

Tony Alley

Tony Alley
Director of Sales IN/ KY
National Water Services, LLC
Office (317) 650-9234
Cell (812) 653-9630
aalley@national-water.com

ACCEPTANCE

The work as described and the stated price(s) are satisfactory and payment will be made according to the terms. This quotation/proposal is hereby accepted and the work is authorized. Pricing Valid for 30 Days.

Sign _____ Position _____

Print _____ Date _____

P O # _____

2024 Marion County Vote Center Agreement & Contact Form

This agreement will serve for both the Primary Election and the General Election in 2024.

By federal and state statutes, polling locations must be accessible to persons with disabilities.

Lessor agrees that poll workers may be required to post signs inside and outside of the premises. Lessor shall not block or obstruct access to the site, including but not limited to locking the designated voting entrance(s) to the facility.

Scheduled Elections in 2024 will be on the dates below:
Primary Election - May 7, 2024
General Election - November 5, 2024

* Required

Vote Center Name and Location

1. Name of Organization / Entity where voting will occur (Note: This name will appear in legal and media advertising) *

   Town of Speedway

2. Address of Organization / Entity where voting will occur (Note: This address will appear in legal and media advertising) *

   5300 Crawfordsville Road

3. City *

Speedway

4. ZIP Code *

46224

5. Location within the facility where voting will take place (i.e. gym, board room, Room Number 102, etc.) *

Lower Level

6. Describe the entry to the building that will be used to access the room where voting will take place (i.e. door number 4, west side of building, main entrance, etc.) This will be published online to give voters information on entering your building. *

Administrative Main Entrance

7. The Marion County Election Board relies on our community partners to provide voting space that is accessible to all voters. Is the room where voting will take place, accessible to all voters, including those in wheelchairs, utilizing walkers, or using a cane? Can all voters easily access the voting space from the building's entry provided in question 6? *

- (●) Yes
- ( ) No

RFP Evaluation

Criteria	Possible Points	Firm															
		Wessler Engineering				RQAW				United Consulting				American Structurepoint			
1. Proposer's itemized and total proposed price		Grant	Philip	Rob	Brad	Grant	Philip	Rob	Brad	Grant	Philip	Rob	Brad	Grant	Philip	Rob	Brad
Total estimated cost for base services bid submitted	10	10	9	8	6	8	10	7	5	8	8	6	5	10	9	8	5
Total	**10**	**10**	**9**	**8**	**6**	**8**	**10**	**7**	**5**	**8**	**8**	**6**	**5**	**10**	**9**	**8**	**5**
2. Proposer's Qualifications/Experience/references																	
Demonstrated prior experinece for similar projects	25	23	22	21	19	25	22	18	20	24	25	17	20	23	22	20	20
Record of successful project completion for IDEM CSO Projects	5	5	5	4	3	4	5	3	3	5	5	4	4	5	5	4	3
Number of years in business	5	5	5	4	3	5	5	4	4	5	5	4	3	5	5	4	3
References	10	10	10	7	7	10	10	7	6	10	10	6	7	10	10	7	4
Total	**45**	**43**	**42**	**36**	**32**	**44**	**42**	**32**	**33**	**44**	**45**	**31**	**34**	**43**	**42**	**35**	**30**
3. The Proposer's Team and Subcontractors																	
Resumes for key individuals (Project Superintendent, Project Manager)	10	8	10	8	7	9	10	7	7	9	10	7	7	9	10	8	6
List of Subcontractors	10	10	0	7	6	10	0	7	4	9	0	7	6	10	0	7	4
Total	**20**	**18**	**10**	**15**	**13**	**19**	**10**	**14**	**11**	**18**	**10**	**14**	**13**	**19**	**10**	**15**	**10**
4. The Proposer's Past Performance																	
Capability to provide responsive professional services	10	8	6	8	6	9	9	7	7	10	8	7	6	9	6	8	7
Conflict resolution performance	5	3	2	3	3	5	4	3	3	4	4	3	3	5	3	3	3
History of meeting deadlines	5	4	3	3	3	5	3	3	4	4	3	3	3	5	3	3	3
Safety Record	5	5	5	3	3	5	5	3	4	5	5	4	3	5	5	3	3
Total	**25**	**20**	**16**	**17**	**15**	**24**	**21**	**16**	**18**	**23**	**20**	**17**	**15**	**24**	**17**	**17**	**16**
Overall Score	**100**	91	77	76	66	95	83	69	67	93	83	68	67	96	78	75	6
Average Score		**77.5**				**78.5**				**77.75**				**77.5**			

WESSLER ENGINEERING

STATEMENT OF QUALIFICATIONS

Speedway CSO Expansion Planning and Design Services

for the

Town of Speedway, Indiana

December 1, 2023

WESSLER ENGINEERING

More than a Project ™

LOCAL OFFICES

INDIANAPOLIS
6219 South East Street
Indianapolis, IN 46227
317.788.4551

INDIANA

CARMEL
1130 AAA Way
Carmel, IN 46032
317.788.4551

EVANSVILLE
5401 Vogel Road, Ste. 410
Evansville, IN 47715
812.475.1690

FORT WAYNE
6606 Constitution Drive
Fort Wayne, IN 46804
260.422.8279

NORTHWEST INDIANA
379 East 84th Drive
Merrillville, IN 46410
219.238.6732

WEST LAFAYETTE
1435 Win Hentschel Boulevard
Suite 105
West Lafayette, IN 47906
765.709.0289

OHIO

BLUFFTON
80 State Route 103, Suite C
Bluffton, OH 45817
419.358.0521

GROVE CITY
3148 Broadway, Unit 307
Grove City, OH 43123
419.358.0521

December 1, 2023

Mr. Grant Kleinhenz, Town Manager
Town of Speedway
5300 Crawfordsville Road
Speedway, IN 46224

Re: Statement of Qualifications for the Town of Speedway CSO Expansion Planning and Design Services

Dear Mr. Kleinhenz,

Enclosed please find Wessler Engineering's Proposal for the Town of Speedway's Combined Sewer Overflow (CSO) Expansion Planning and Design Services.

As a local business, the Wessler team appreciates the opportunity to respond to your request and outline how our broad and deep level of expertise and experience can benefit your residents, businesses and the community overall. Wessler Engineering's staff have a thorough understanding of Speedway's Wastewater Treatment Plant (WWTP) and Collection System and the challenges the system faces during wet weather.

This project is a challenge for Speedway and its delivery needs to maximize existing infrastructure to minimize the shortcomings of the original CSO system design. In the delivery of this project, we will bring close coordination between the Town's operational staff and our engineering team with a focus on creating effective and affordable solutions. We also will solicit input from the Indiana Department of Environmental Management (IDEM) early and frequently in the planning process to bring consensus between all parties. We have found this approach to be invaluable in our most recent experiences with CSO projects as we provided our clients significant savings in the final solution.

Our in-house project team has experience in the planning, design and successful implementation of CSO projects, including wet weather treatment facilities that utilize disk filtration, large onsite storage tanks and in-line pipe storage. We also are familiar with the Town itself and understand your planning and design process and standards. We plan to bring this experience and expertise to Speedway's system and deliver a project that meets your goals.

Thank you in advance for considering our proposal. If you have questions or need anything else, please contact me at 317-788-2443 or bridgeti@wesslerengineering.com. We look forward to sharing the ideas we have for your project in greater detail.

Sincerely,

Robert W. Holden, II, Ph.D., P.E., BCEE
Senior Vice President and Principal Engineer

Bridget R. Ingram

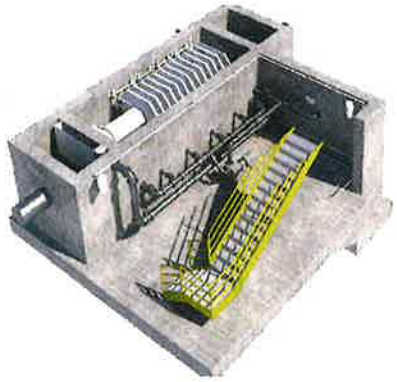
Bridget Ingram, P.E.
Project Manager

CONTENTS

WESSLER
ENGINEERING
wesslerengineering.com

Qualifications, Experience and References

Areas of Expertise



New Haven Wet Weather Treatment Facility (WWTF) – City of New Haven, Indiana

City of New Haven officials retained the Wessler team to design a WWTF. The WWTF was designed to treat any flows associated with a 10-year one-hour storm event that New Haven could not convey to the City of Fort Wayne, as required by New Haven's Long Term Control Plan (LTCP). The facility is located adjacent to New Haven's only remaining combined sewer overflow (CSO) and includes screening, a diversion structure, a pump station, cloth media disk filters and UV disinfection.

Before the project design started, Wessler staff amended New Haven's LTCP. The original LTCP included a surge storage tank, which would have been more costly than the proposed WWTF. Coordination meetings with Indiana Department of Environmental Management (IDEM) staff were used to determine the preliminary effluent limits for the WWTF. The preliminary design phase also included sampling to determine the anticipated solids loadings, with particular interest in the solids flux anticipated at the beginning of a storm event. The peak capacity of the system was determined by using New Haven's existing XPWMM hydraulic model and factoring in their recent inflow and infiltration reduction efforts.

Upstream of the WWTF is a CSO deflection screen in the existing overflow chamber. This screen has a horizontal bar rack, includes a self-screening assembly and has a modulating weir. This style screen allows for water to continue downstream during low flows and will screen and divert flow to the WWTF during wet weather events. Utilizing this type of screen allowed for a much smaller footprint and prevented the solids from needing to be processed at the remote site.

A doghouse style diversion structure was added on the existing 48-inch CSO pipe with a fixed weir. This structure directs up to 4.5 million-gallons-per-day (MGD) of flow to the WWTF and allows for all flows greater than the 10-year one-hour storm event to be sent to the Martin Ditch via the existing 48-inch gravity sewer. Flow from the diversion structure is sent to a triplex submersible pump station, with the dual purpose of sending flow to the filters and serving as a plant drain pump station. As this is an intermittently operated facility, the tanks need to be drained after each wet weather event to avoid freezing and odors.

Flow from the pumps discharge into an influent chamber just upstream of the cloth media disk filters. The filters are in a below grade concrete tank that is connected to the main filter building. The design effluent total suspended solids (TSS) concentration is 50 mg/L to ensure that the E. coli limit can be met. There is one pump associated with the filter unit that is utilized for backwashing as well as solids wasting. Flow from the filter backwash pumps is sent to the downstream sanitary sewer. Following filtration, flow is disinfected via ultraviolet light and then sampled before reconnecting to the existing outfall.

Climate resiliency was considered throughout the design of the WWTF project. The facility was design to expand from 4.5 MGD to 5.75 MGD if the 10-year one-hour storm event becomes more intense in the future. This was accomplished by selecting a filter that had capacity for 16 disks, but only needing to install 12 initially to meet the current design requirements. Similarly, the UV system was designed with a wide enough channel that an additional set of bulbs easily can be added in the future, as well as a weir with enough length to handle flows up to six MGD.

The LTCP amendment and the wastewater construction permit have been approved by IDEM. Construction is ongoing and is anticipated to be completed in Fall 2024. Wessler staff is currently providing full time inspection and construction administration services.

Reference:
Mayor Steve McMichael
260-748-7070
smcmichael@newhaven.in.gov

Qualifications, Experience and References

Areas of Expertise

CSO Relief Interceptor Sewer – City of West Lafayette, Indiana

As part of the City's CSO LTCP to reduce wet weather sewer overflows, a new large-diameter interceptor sewer was installed along a major city thoroughfare and within a very tight schedule of 18 months for design and construction.

The original project schedule was significantly accelerated to see the construction and placement of the large diameter sewer prior to the State Street Renovation. To accommodate this acceleration, City officials utilized the Guaranteed Savings Contract (GSC) method of procurement. GSC is a form of design-build, where the contractor is selected based on experience and qualifications and becomes part of the project team, working alongside the engineer for final design. Wessler staff worked closely with the contractor during 60% and 90% design, conducting value engineering workshops to modify the design to improve constructability and reduce construction costs without compromising quality and performance of the project.

The new Interceptor includes 4,500 feet of new 60-inch and 96-inch sewer along two lanes of River Road. The sewer intercepts two combined sewer overflows which would otherwise flow to the Wabash River and conveys it to the Water Resource Recovery Facility for storage and treatment. Approximately 3,400 of 96-inch pipe provides an in-line storage volume of 600,000 gallons, which is stored and slowly conveyed to the Water Resource Recovery Facility for treatment. The project was designed to meet a 10-year one-hour design storm without overflows.

Major traffic and pedestrian routes were impacted by the project. A Maintenance of Traffic (MOT) and pedestrian detour plan were developed, including a major street closing at State Street and River Road (one of the busiest intersections in the City and a main artery from the City of Lafayette). Media releases and maps were prepared to notify the public of the traffic and pedestrian detours, including a highly publicized public and media presentation, a dedicated project website with continuous updates, texts, radio and television news announcements, and numerous newspaper articles.

Reference:
David Henderson
Utility Director
763-775-5145
dhenderson@westlafayette.in.gov

Dehart CSO Storage – City of West Lafayette, Indiana

The project was a necessary part of the City's approved CSO LTCP to significantly reduce wet weather overflow events at CSO Outfall No. 003 located near the intersection of Dehart Street and River Road and is the final CSO in the collection system to be addressed under the City's LTCP.

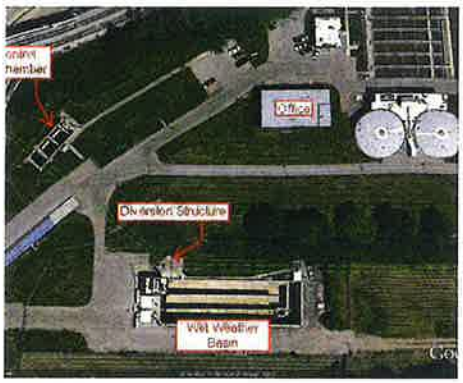
To determine the volume of storage required, a XPSWMM hydraulic model was calibrated utilizing flow metering data. The project included approximately 1,000 feet of a 15'x15' concrete tunnel in River Road from Dehart Street to Happy Hollow Road to provide a peak wet weather storage of 1.7 million gallons of combined sewage that would have otherwise overflowed to the Wabash River. The stored flow is pumped back into the sewer system for conveyance and treatment at the Water Resource Recovery Facility.

City officials utilized the GSC method of procurement. Wessler staff worked closely with the GSC contractor during 60% and 90% design, conducting value engineering workshops to modify the design to improve constructability and reduce construction cost. Dual 12-foot diameter precast concrete pipes were initially designed, but after value engineering a 15'x15' concrete tunnel was selected as the cost-effective alternative due to the limited space for construction within the right-of-way of River Road.

Reference:
David Henderson
Utility Director
763-775-5145
dhenderson@westlafayette.in.gov

Qualifications, Experience and References

Areas of Expertise



WWTF Improvements and Expansion – City of West Lafayette, Indiana

The first phase of this project included improvements to the existing WWTF to increase storage, improve operations and performance and reduce CSO discharges. Improvements to the existing 670,000-gallon concrete storage basin included the replacement of the effluent flow meter with a new AV meter, chlorine mixing improvements to improve disinfection, raising the effluent weir and interior tank walls to add storage volume and prevent short-circuiting of flow, and CSO screen improvements.

In 2023, Wessler staff completed a preliminary engineering report (PER) which evaluated the optimal way to increase the capacity of the WWTF. The alternatives considered were an additional storage tank and cloth media disk filtration. The PER evaluated capital and operational costs and spatial constraints at the site. It was determined that an additional storage basin would be the best option for the City.

The Wessler team currently is designing a second concrete storage basin at the WWTF to increase storage and treatment for an additional two million gallons of combined sewage that would otherwise overflow to the Wabash River. The new design provides additional capacity while utilizing the existing infrastructure wherever possible. Discharge from the WWTF will receive primary treatment and disinfection, while stored flows remaining in the basins will be pumped back to the Water Resource Recovery Facility for full treatment. Automated flushing devices will flush the basin floor after each event to reduce manual cleaning. A new diversion structure, pump building and chemical storage building associated with the new storage basin will also be constructed. The project is a necessary part and final phase of the City's approved CSO LTCP to significantly reduce untreated wet weather sewer overflows at CSO Outfall No. 007 located at the Water Resource Recovery Facility.

Reference:
David Henderson
Utility Director
763-775-5145
dhenderson@westlafayette.in.gov

Bryan's Lift Station – City of Monticello, Indiana

As part of Monticello's LTCP aimed at reducing CSOs, City officials installed an innovative CSO storage system, which greatly improved the public health, safety and quality of life for a community centered around the recreational benefits of Lakes Shafer and Freeman.

The project included the replacement of an aging, undersized combined sewage lift station with a new 1,800 gallons per minute triplex lift station and 1,500 linear feet of 12-inch force main. The project also included an underground pipe storage grid with initial and ultimate capacities of 385,000 and 500,000 gallons respectively. The storage structure, which holds the first flush of combined sewage during a rain event until it can be pumped to the wastewater treatment plant, was designed based on modeling of a 10-year one-hour storm event. No open tanks were involved in the project, which allows for an aesthetically pleasing site of rolling grass on the banks of Lake Freeman. By constructing the storage grid below grade, it is gravity filled when the pump station cannot match the incoming flow and drains back to the wet well by gravity as the wet weather flows subside.

The storage pipe consisted of 400 linear feet of 36-inch and 3,600 linear feet of 48-inch interceptor and the first installation of Contech Duromaxx steel reinforced polyethylene (SRPE) pipe in a sanitary application and the first use of the pipe for any application east of the Mississippi River. By constructing the storage structure under an IDEM permit pilot program for utilizing an underground piping system in lieu of concrete tanks, City officials have opened the doors for a low-cost alternative to conventional large diameter pipe systems in the State of Indiana.

Reference:
Bob Lindley
Wastewater Superintendent
219-583-5712
rlindley@monticelloin.gov

The bank of Lake Freeman is less than 40 feet from the new lift station. Its wet well extends more than 16 feet below the natural water table and the storage structure excavation was more than four feet below the water table. The large footprint of the lift station and underground pipe storage, tight limits of the site and poor soil conditions required efficient dewatering operations without impacting the Lake. The project was funded by

an Indiana Office of Community and Rural Affairs (OCRA) Disaster Recovery Appropriation 2 Grant with the remaining funding coming through a State Revolving Fund (SRF) loan.

The lift station and storage project were a success and enabled Monticello officials to move forward with the remaining phases of their LTCP before their 2029 deadline.

Wastewater Treatment Plant (WWTP) Improvements – City of Frankfort, Indiana

The City of Frankfort's 4.68 MGD WWTP – last upgraded in 1980 – needed equipment replacements, modifications and additions to increase capacity in order to comply with the CSO LTCP regulations. Wessler Engineering staff helped the Frankfort Utilities team meet those needs while reducing energy consumption and staying within the project budget.

In order to meet the requirements of the CSO regulations, improved solids removal and disinfection of CSO discharges were needed. The City's only CSO is located at their 10-million-gallons EQ basins and discharges when the basins are full. To comply with the regulations, a new disinfection building and a chlorine contact tank designed for flows up to 20 MGD were added so that overflows could be disinfected using liquid sodium hypochlorite and de-chlorinated using sodium bisulfite. New controls and valving were included to shut off aeration to the EQ basins so solids can be allowed to settle prior to an overflow.

A new screenings building with influent fine screens and a washer/compactor was also added upstream of the EQ basins to improve the debris removal and waste screening processes. The improved screens also reduce the amount of trash and debris released during combined sewer overflows.

Replacement of much of the 30-year-old equipment in the plant provided an opportunity for improving energy efficiency. Improvements to reduce energy consumption and lower power costs include the following:

- new 200 Hp high-efficiency motors and variable frequency drives (VFDs) for the existing raw sewage pumps installed in place of older, less efficient 75/200 Hp two-speed motors
- new 150 Hp blowers and VFDs for the EQ basins to replace larger 100/250 Hp two-speed blowers
- installation of fine bubble aeration system and smaller blowers to significantly reduce aeration power requirements
- a complete renovation of two anaerobic digesters to increase digester gas production for fueling the boiler and reduced consumption of natural gas.

The improvements allow City officials to comply with CSO LTCP regulations and included energy efficient solutions to reduce operational costs. Since the completion of the improvements project the City of Frankfort has been in compliance with their LTCP.

Reference:
Todd Corrie
Utility Manager
765-659-6700
tcorrie@fmu-in.com

Qualifications, Experience and References

WESSLER: A SNAPSHOT

Working with our clients to provide better quality of life by improving and preserving water resources.

OUR STATS

EST. 1975

IN: Carmel, Evansville, Fort Wayne, Indianapolis (HQ), NW Indiana, West Lafayette

OH: Bluffton, Grove City

WESSLER ADVANTAGES

- Employee-owned
- Quality assurance/quality control
- Continuous technical development
- Emphasis on communication

SERVICES WE OFFER

- **Wastewater**
- **Drinking Water**
- **Stormwater**
- **Construction**
- **Environmental**
- **Electrical/Controls**

With Wessler Engineering you are *More than a Project™*

Wessler Engineering is trusted:

- specialize in "wet infrastructure" (wastewater, drinking water, stormwater)
- services range from master planning and design to construction administration and asset management plans
- attention and service of a smaller firm with resources and expertise of a larger one
- level of service resulting in a repeat business rate of more than 95%.

Wessler Engineering is client-focused:

- we want to be your engineer, not just for this project or the next one, but every time you need assistance
- clients are part of our extended family
- partnerships we create are just as important as the projects we do
- we are smart enough to listen
- we establish solid relationships by providing highest quality design and best service.

Wessler Engineering is responsive:

- project team maintains an open line of communication with responsiveness designed to meet or exceed your expectations.

Wessler Engineering is efficient and cost-effective:

- always looking for ways to save clients money while protecting project integrity, including coordinating with local, state and federal funding agencies to help secure funding for our clients.

Wessler Engineering's work is clear, concise and easy to follow:

- detailed drawings and specifications prepared for contractors' use
- reports can be formatted to meet state and federal regulatory agencies' requirements.

There is no water problem we can't solve **together**.

WESSLER ENGINEERING
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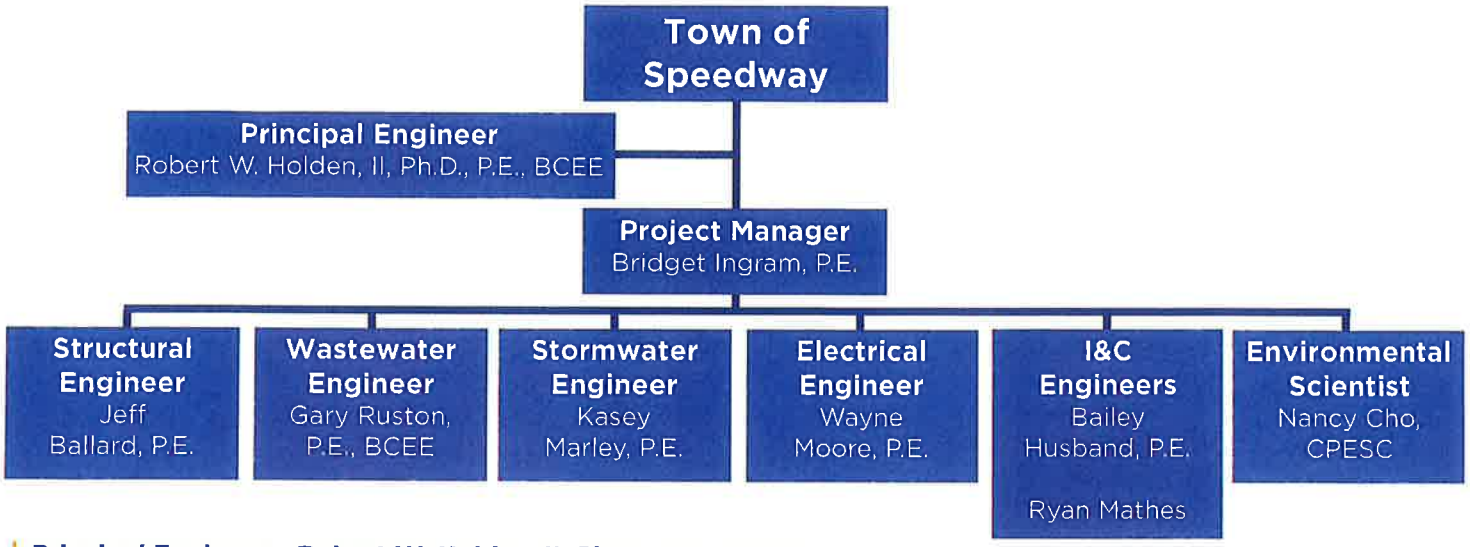
Team and Subcontractors

A team who works for you



Principal Engineer – Robert W. Holden, II, Ph.D., P.E., BCEE
A member of Wessler's management team, the principal engineer provides oversight of the project and is responsible for contract negotiations. Bob will provide technical guidance in planning and executing project assignments, ensure quality assurance/quality control (QAQC) procedures are followed and will monitor contract commitments.

Project Manager – Bridget Ingram, P.E.
The project manager (PM) plays a primary role in the project and is responsible for its successful completion. Bridget will ensure the project proceeds within the specified timeframe and established budget, while achieving its objectives. She will make sure the project has sufficient resources, while communicating regularly with the client.

Structural Engineer – Jeff Ballard, P.E.
The structural engineer will focus on structural aspects of the project. Jeff has more than 40 years of experience and will work with the PM to evaluate alternative solutions and collaborate with the project team to resolve structural design issues.

Wastewater Engineer – Gary Ruston, P.E., BCEE
The wastewater engineer will focus on wastewater aspects of the project. Gary has 31 years of experience and will work with the PM to evaluate alternative wastewater solutions and collaborate with the project team to resolve design issues.

Stormwater Engineer – Kasey Marley, P.E.
The stormwater engineer will focus on stormwater aspects of the project. Kasey has eight years of experience and will work with the PM to evaluate alternative stormwater solutions and collaborate with the project team to resolve structural stormwater issues.

Electrical Engineer – Wayne Moore, P.E.
The structural engineer will focus on structural aspects of the project. Wayne has 24 years of experience and will work with the PM to evaluate alternative electrical solutions and collaborate with the project team to resolve electrical issues.

Instrumentation and Controls (I&C) Engineers – Bailey Husband, P.E. and Ryan Mathes
Our I&C engineers will focus on technical aspects of the project and oversee work of other engineers on the project team. Bailey and Ryan will work with the PM to evaluate alternative technical solutions and collaborate with the project team to resolve complex design and programing issues.

Environmental Scientist – Nancy Cho, CPESC
Our environmental scientist is qualified and trained to complete stormwater pollution prevention plan (SWPPP) inspections. Nancy will use her 16 years of experience and knowledge of state and federal regulations and SWPPPs to ensure environmental impacts are minimized, pollution prevention practices are implemented and the project remains in compliance with regulations as well as permit conditions. She will recommend best management practices, prepare permit applications, conduct site inspections and suggest corrective actions.

EDUCATION

Purdue University
Ph.D., Civil Engineering, 1999

Purdue University
M.S., Civil Engineering, 1992

Purdue University
B.S., Civil Engineering, 1990

REGISTRATIONS AND CERTIFICATIONS

Registered Professional Engineer, Indiana and Texas

Board Certified Environmental Engineer

PROFESSIONAL SOCIETIES

American Academy of Environmental Engineers (AAEES)

Indiana Water Environment Association (IWEA)

Water Environment Federation (WEF)

Robert W. Holden, II, Ph.D., P.E., BCEE

Senior Vice President, Wastewater Group Head

317.788.4551
BobH@wesslerengineering.com

Robert Holden has been employed with Wessler since August of 2014 and has 32 years of experience; he serves as senior vice president, group head for the Wastewater group and principal engineer. Bob is experienced in project design and management, production oversight and on-site inspection of municipal and industrial projects. He has experience with municipal and industrial projects, including the analysis and design of wastewater and water treatment, distribution and collection systems, combined sewer separation, sewer rehabilitation, and water well location and design. Bob's industrial experience includes design and regulatory activities in several fields of engineering and a wide array of industries ranging in size from small businesses to Fortune 500 companies. He has participated in the planning, design, construction inspection and administration for many projects.

Belmont Raw Sewage Pump Replacement – Citizens Energy Group (CEG), Indianapolis, Indiana
Served as project manager for raw sewage pump replacements for CEG at the Belmont Advanced Wastewater Treatment (AWT) Plant. The raw sewage screw pumps at the Belmont AWT Plant had reached their useful life and needed replacement. With 10 pumps providing 330 million-gallons-per-day (MGD) of capacity, CEG staff will be replacing the pumps in sets of two to four over the course of three years. Pumps 1 and 2 were selected as the first round of pumps to be replaced since they had experienced more deterioration than the other eight pumps. The project included the demolition and replacement of the Archimedes screw pumps and the associated lubrication pumps, installation of new air oil coolers for the gearboxes, installation of ancillary ladder and grating systems and modifications to the electrical and instrumentation and control (I&C) systems for the pumps.

Frankfort Wastewater Treatment Plant (WWTP) Expansion – City of Frankfort, Indiana
Served as project manager for a WWTP expansion in the City of Frankfort. Improvements to the plant included the expansion of the plant's capacity to an average design flow (ADF) of nine MGD and a peak design flow (PDF) of 15 MGD. The design included the modification of the existing treatment system to an A2O treatment process, which included the addition of new anaerobic basins, conversion of primary clarifiers into anoxic basins, single-pass aeration tanks into three-pass tanks and final clarifiers into waste activated sludge (WAS) holding tanks. Additional improvements included new 90-foot diameter final clarifiers, conversion of tertiary filters from sand to mechanical cloth filters, conversion to anaerobic digesters and introduction of rotary drum thickener and centrifuge for solids handling.

Lebanon WWTP Expansion – Lebanon Utilities, City of Lebanon, Indiana
Served as project manager on the WWTP expansion for City of Lebanon Utilities. Lebanon Utilities' team undertook a project to expand the ADF capacity of the WWTP to five MGD. The work included the replacement of two raw sewage non-clog submersible pumps, construction of a new vortex grit removal system, a new anaerobic tank, an expansion of the existing oxidation ditches, a new 90-foot diameter secondary clarifier and return activated sludge (RAS) pumps, and a new ultraviolet (UV) disinfection system to replace the chlorine contact tank. In addition to the new tankage, the project included yard and process piping, regrading, paving, landscaping, coatings, electrical, and I&C work for a complete system.

Southport AWT Plant Capacity Expansion – CEG, Indianapolis, Indiana
Served as project manager. This project provided additional capacity to serve the combined sewer system and provide treatment for the tunnel dewatering flows. The expansion provided more than 120 MGD of additional wet weather treatment and raised the peak capacity of the facility to 270 MGD. The project provided new headworks, primary clarifiers and ultraviolet disinfection, as well as significant retrofits to the existing air and oxygen nitrification systems. Phase one construction was bid $30 million below the $115 million construction budget.

St. Joseph Interceptor Equalization Facility at Beckett Run – City of Fort Wayne, Indiana
Project manager for this project, which included a wet weather storage facility needed to store excess flow caused by inflow and infiltration (I/I) entering the St. Joseph Interceptor and thereby alleviating sanitary sewer overflows to the St. Joseph River. The equalization facilities were designed to minimize operation and maintenance requirements. The flow control structure was built over the existing St. Joseph Interceptor and a weir and sluice gate structure control the volume of flow diverted for equalization. The facility includes a controls and electrical building that utilizes the latest supervisory control and data acquisition (SCADA) technologies and conforms to Fort Wayne's progressive system-wide control and telemetry standards. As a wet weather facility, the system was designed for robust service during storm events and power outages with either dual substation electric utility feeds or an emergency generator.

Flow Equalization Basins, Raw Sewage Pump Station and Related Items – Indianapolis Department of Public Works, City of Indianapolis, Indiana
Project manager for the planning and design of several combined sewer overflow (CSO) storage basins and a 75 MGD raw sewage pump station at the City's two WWTPs – Belmont and Southport. Both concrete basin and lined earthen basins were considered. The basins will be equipped with aeration/mixing and washdown facilities. The project also includes long-term planning for additional wet weather flow storage facilities, primary clarifier expansion, enhanced high-rate clarification, reuse of abandoned activated sludge plant tankage, wet weather flow disinfection, and control of recycle streams, septage and sludge flows during wet weather.

EDUCATION

Purdue University,
B.S., Environmental and Ecological Engineering, 2016

REGISTRATIONS AND CERTIFICATIONS

Registered Professional Engineer, Indiana

PROFESSIONAL SOCIETIES

Indiana Water Environment Association (IWEA)

Water Environment Federation (WEF)

Residuals and Resource Recovery Committee Member, 2017-present
Secretary, 2019
Chair, 2020-present

Bridget Ingram, P.E.

Project Manager

317.788.4551

BridgetI@wesslerengineering.com

Bridget Ingram been employed with Wessler since June of 2016 and has seven years of experience; she serves as a project manager. She works in the areas of designing and evaluating wastewater treatment, wet weather treatment, and sanitary collection systems. Bridget takes projects from the early stages of preliminary design through the bidding process and the construction administration phase.

Wet Weather Treatment Facility (WWTF) – City of New Haven, Indiana
Served as the project manager for the study, design, and construction phases of the WWTF project for the City of New Haven. The project was a part of the City's Combined Sewer Overflow (CSO) Long Term Control Plan (LTCP). Coordinated with Indiana Department of Environmental Management (IDEM) to modify the LTCP from a surge storage tank to the more cost effective WWTF. The WWTF has a design peak capacity of 4.5 million gallons per day (MGD) with the potential to increase to 5.75 MGD in the future. The design includes influent screening, a diversion structure, a pump station, cloth media disk filters, and UV disinfection. The project was funded by the Indiana State Revolving Fund (SRF) with a 0% interest rate as the entire project qualified for the Green Project Reserve funds.

Capital Improvements Plan (CIP) and Asset Management Plan (AMP) – Town of Speedway, Indiana
Served as project manager and developed an asset management plan (AMP) and capital improvements plan (CIP) for the Speedway wastewater treatment plant and collection system. The AMP scored all critical assets in the system and helped Town officials prioritize rehabilitation and replacement projects and budget for future work. The CIP forecasted projects needed over the next 20 years to meet future loadings and limits and replace aging infrastructure. The projects in the CIP were broken into two categories, short-term and long-term which helped Town staff during their rate study evaluation.

On Call Services – Town of Speedway, Indiana
Assisted the Town on an as needed basis with operation and regulatory issues at the wastewater treatment plant (WWTP) and in the collection system. Responded to IDEM's Level of Control Review letter issued in September 2022, clarifying why the CSO events that occurred between 2019-2022 were not in violation of the Town's LTCP. Reviewed proposed Agreed Order issued by IDEM in April 2023 and created a proposed compliance plan schedule which was approved by IDEM. Determined potential options and preliminary costs, to the meeting the requirements of the Agreed Order, including additional storage tanks, a WWTF and inline storage.

Chapel Hill Lift Station and Force Main Preliminary Engineering Report (PER) – Town of Speedway, Indiana
Served as project manager for the PER for the Chapel Hill Lift Station. Analyzed flow monitoring data to determine the peak flowrate the new station would need to be size for to minimize sanitary sewer overflow events upstream of the station. Evaluated and developed cost estimates for three alternatives. The PER was submitted to the SRF for funding consideration.

WWTP Expansion – Western Wayne Regional Sewer District, Cambridge City, Indiana
Acted as assistant project manager for the WWTP expansion PER and design phases and was the project manager during the bidding and construction phases. The District's WWTP was originally constructed in the mid-1960s and upgraded in 1988. With most of the equipment nearing or beyond its useful life or having limited capability for processing anticipated future wastewater flows, the treatment plant was upgraded and expanded to also address that the plant had exceeded its hydraulic capacity. The plant was upgraded to increase the design average flow from 0.804 to 1.80 MGD with a peak flow rate of 4.5 MGD to provide capacity for the anticipated industrial growth within the service area. The preliminary design involved an evaluation of secondary treatment processes including vertical loop reactors and oxidation ditches as well as a review of three types of dewatering equipment. Major components of the expansion included raw sewage pumps, a screening and aerated grit tank removal facility, oxidation ditches and anaerobic basin, secondary clarifiers and return activated sludge pump station, ultraviolet disinfection, aerobic digesters and sludge dewatering facilities, an expanded non-potable water system, and a chemical feed facility for phosphorus removal.

Resume – Bridget Ingram, P.E.(con't.)

Frankfort WWTP Expansion – City of Frankfort, Indiana
Served as project engineer during design and wrote the PER to secure funding from SRF. Bridget also served as the assistant project manager during the bidding and construction phases. Utilized Biowin plant modeling software to ensure proper sizing and performance of the new plant at startup and future flow conditions. Selected equipment including blowers, pumps and mixers, dewatering equipment, and designed new structures such as the anaerobic basin, secondary clarifiers, and secondary control building. Improvements to the Frankfort WWTP included the expansion of the plant's capacity to an average daily flow (ADF) of nine MGD and a peak design flow of 15 MGD. The design included the modification of the existing treatment system to an A2O treatment process, which included the addition of new anaerobic basins, conversion of primary clarifiers into anoxic basins, single-pass aeration tanks into three-pass tanks and final clarifiers into waste activated sludge (WAS) holding tanks. Additional improvements included new 90-foot diameter final clarifiers, conversion of tertiary filters from sand to mechanical cloth filters, conversion to anaerobic digesters and introduction of rotary drum thickener and centrifuge for solids handling.

Warsaw WWTP Expansion – City of Warsaw, Indiana
Served as project engineer and worked on the PER to secure funding from SRF. Preliminary design included a detailed evaluation of solids dewatering equipment including a belt filter press, volute press, and centrifuge. The evaluation considered both digested sludge as well as flow from the septage receiving station. Improvements to the facility included the expansion of the plant's capacity to an ADF of six MGD with a peak flow of 18 MGD. Consideration was given in the design for future expansion projects to bring the facility to an ADF of 12 MGD. The design included the addition of new treatment processes, including an aerated rolling grit removal process, new primary clarifiers and a chemical phosphorus removal structure. In addition, anaerobic digesters were added and solids handling facilities were upgraded to reduce the amount of sludge processed, thereby allowing the plant's existing aerobic digester tanks to be retrofitted and repurposed. The design also included improvements to the influent flow meters, new non-potable water system, new maintenance garage and a new emergency back-up generator. The project resulted in a 40% decrease in electrical usage, saving the City approximately $130,000 annually.

EDUCATION

Purdue University,
B.S., Civil Engineering, 1981

REGISTRATIONS AND CERTIFICATIONS

Registered Professional Engineer, Indiana and Ohio

PROFESSIONAL SOCIETIES

American Society of Civil Engineers (ASCE)

American Water Works Association (AWWA), Standards Committee D115 "Tendon-Prestressed Concrete Water Tanks"

Jeff Ballard, P.E.

Senior Project Manager

317.788.4551

JeffBallard@wesslerengineering.com

Jeff Ballard joined Wessler in 2017; he serves as a senior project manager in the Wastewater group. With more than 40 years of experience, his primary area of expertise is in structural engineering associated with environmental projects such as water treatment plants, wastewater treatment plants and pump stations.

Wet Weather Treatment Facility (WWTF) Expansion – City of West Lafayette, Indiana

Currently Serving as structural engineer designing a two-million-gallon wet weather storage tank, diversion structure and dechlorination building. The project is an expansion to the existing WWTF to ensure all flows generator by the one year, one hour storm event can be stored until the wastewater treatment plant (WWTP) has sufficient capacity for treatment, as required by the City's Long Term Control Plan (LTCP).

Indianapolis Department of Public Works (DPW) Belmont and Southport Flow Equalization (EQ) Basins, Raw Sewage Pumping and Ancillary Improvements – City of Indianapolis, Indiana

Served as structural engineer for improvements at the Belmont plant, including a 30-million-gallon wet weather storage basin, a four-million-gallon wet weather storage basin, two rectangular primary clarifiers (four trains each), a sludge pump station, and a variety of junction vaults, outfall and inlet structures and ancillary distribution structures. Improvements at the Southport plant included two wet weather storage basins, a wash water pumping station, an inlet and outlet structure, a return flow structure, and wet weather pump station.

Warsaw WWTP Expansion – City of Warsaw, Indiana

Served as the structural engineer for the project designing the primary clarifier control building, two 85-foot diameter clarifiers, a three-cell selector tank, modifications to the existing oxidation tank with the addition of two bridges providing access to multiple pieces of equipment, final clarifier splitter box, 90-foot diameter final clarifier, sludge pump station, modifications to the existing UV structure with the addition of a canopy roof and monorail trolley, stairs, and walkway bridges to existing modified holding tanks. Improvements to the Warsaw WWTP facility included the expansion of the plant's capacity to an average daily flow (ADF) of six million-gallons-per-day (MGD) with a peak flow of 18 MGD. Consideration was given in the design for future expansion projects to bring the facility to an average daily flow of 12 MGD. The design included the addition of new treatment processes, including an aerated rolling grit removal process (10 MGD firm capacity), new primary clarifiers and a chemical phosphorus removal structure. In addition, anaerobic digesters were added and solids handling facilities were upgraded to reduce the amount of sludge processed, thereby allowing the plant's existing aerobic digester tanks to be retrofitted and repurposed. The design also included improvements to the influent flow meters, new non-potable water system, new maintenance garage and a new emergency back-up generator. The project resulted in a 40% decrease in electrical usage, saving the City approximately $130,000 annually.

Stormwater and Deicing Capacity Project – Indianapolis Airport Authority (IAA), Indianapolis, Indiana

Served as structural engineer for a variety of drainage ancillary structures. The IAA's Stormwater and Deicing Capacity Project was a $130 million fast-tracked project that enabled continued expansion at the Indianapolis International Airport. Primary objectives of the project were to provide conveyance, storage and management of stormwater and deicing runoff from existing and planned development areas and relocate the existing 43-million-gallon facility from the north side to the south side of I-70. The project needed to allow stormwater to be discharged in accordance with the Airport's National Pollutant Discharge Elimination System (NPDES) permit to the appropriate location: a stream when stormwater was clean and to the sanitary sewer system when deicing. Time-tested technologies were applied in new and innovative scenarios to discharge stormwater to the desired location and meet the objectives to coincide with the Airport's expansion. The project was the 2020 American Council of Engineering Companies (ACEC) Indiana Grand Award winner.

EDUCATION

Rose-Hulman Institute of Technology,
B.S., Civil Engineering, 1990

REGISTRATIONS AND CERTIFICATIONS

Registered Professional Engineer, Indiana

Board Certified Environmental Engineer (BCEE)

PROFESSIONAL SOCIETIES

Indiana Water Environment Association (IWEA)
President - 2018

Water Environment Federation (WEF)

Gary Ruston, P.E., BCEE

Senior Project Manager
317.788.4551
GaryR@wesslerengineering.com

Gary Ruston has been employed with Wessler since October of 2000 and has 33 years of experience; he serves as both a technical services director and senior project manager. Gary has experience in the planning, preparation of plans and specifications, bidding and construction administration of a wide variety of wastewater projects.

Combined Sewer Overflow (CSO) Long-Term Control Plan (LTCP) Amendment and Wet Weather Treatment Facility (WWTF) Assistance – City of West Lafayette, Indiana
Served as project manager and prepared an amendment to the City's LTCP to reduce, eliminate and treat CSOs. The amended plan involved updating and modifying an existing XP-SWMM computer model of the sewer system to evaluate potential projects and improvements for transporting, storing and treating up to a ten-year/ one-hour storm event. Costs were estimated for various alternative projects, including green infrastructure and low impact design (GI/LID). Alternative projects were evaluated for CSO reduction benefits and cost-effective solutions were determined to meet the Indiana CSO regulations over a 15-year period. The plan also included an evaluation of various alternatives for expansion and improvements to the City's 42 million-gallons-per-day (MGD) CSO wet weather treatment facility (WWTF) which provides settling and disinfection of CSO discharge. Prior to preparing the LTCP, the Wessler team assisted City officials with evaluating improvements to the WWTF to improve disinfection due to upcoming E. coli limits, along with related correspondence and negotiations with the Indiana Department of Environmental Management (IDEM).

WWTF Improvements and Expansion – City of West Lafayette, Indiana
Served as project manager for improvements to the existing WWTF to increase storage, improve operations and performance and reduce combined sewer overflow discharges. Improvements identified included replacement of effluent flow meter with new AV meter, chlorine mixing improvements, raising interior tank walls, CSO screens and screen improvements.

Currently serving as project manager for design of a new concrete storage basin to provide total storage and treatment of approximately 2.5 million gallons of combined sewage that would otherwise overflow to the Wabash River. Treated flow will be disinfected and discharged while flow stored in the basin will be pumped back to the Water Resource Recovery Facility for full treatment. A new diversion structure, pump building, and chemical storage building associated with the new storage basin will also be constructed. The project is a necessary part and final phase of the City's approved CSO LTCP to significantly reduce untreated wet weather sewer overflows.

West Lafayette CSO Relief Interceptor – City of West Lafayette, Indiana
Served as the project manager for the planning, design and construction of the CSO Relief Interceptor project. As part of the City's Combined Sewer Overflow Long-Term Control Plan to reduce wet weather sewer overflows, a new large-diameter interceptor sewer was installed along a major city thoroughfare and within a very tight schedule of 18 months for design and construction. In order to expedite the project schedule, the City utilized the Guaranteed Savings Contract (GSC) method of procurement. The new Interceptor includes 4,500 feet of new 60" and 96" sewer along two lanes of River Road. The sewer intercepts two combined sewer overflows which would otherwise flow to the Wabash River. Approximately 3,400 feet of 96" pipe provides an in-line storage volume of 600,000 gallons, which is stored and slowly conveyed to the Water Resource Recovery Facility for treatment. The project was designed to meet a 10-year/1-hour design storm without overflows.

West Lafayette Dehart CSO Storage – City of West Lafayette, Indiana
Served as the project manager for the planning, design and construction of the Dehart CSO storage project. The project was a necessary part of the City's approved CSO LTCP to significantly reduce wet weather overflow events at CSO Outfall No. 003. The project included approximately 1,000 feet of a 15' x 15' concrete tunnel in River Road from Dehart Street to Happy Hollow Road to provide a peak wet weather storage of 1.7 million gallons of combined sewage that would have otherwise overflowed to the Wabash River. The stored flow is pumped back into the sewer system for conveyance and treatment at the Water Resource Recovery Facility.

Resume – Gary Ruston, P.E., BCEE (con't.)

Bryan's Lift Station Replacement – City of Monticello, Indiana
Served as the technical advisor for the lift station replacement project. The project was apart of the City's LTCP and included, a new 1,800 gallon per minute triplex lift station, 1,500 LF of 12" force main, and over 850,000 gallons of underground pipe storage. Coordinated with IDEM to conduct a pilot program that allowed the City to use the underground storage pipe in lieu of a concrete storage tank, resulting in cost savings for the City.

Wastewater Treatment Plant (WWTP) Improvements – City of Frankfort, Indiana
Served as the project manager for the planning, design and bidding of improvements to an existing 4.68 MGD WWTP consisting of new disinfection building and contact tank for CSO discharges to meet LTCP requirements, the complete renovation of two anaerobic digesters including new steel cover, mixing equipment, boiler/heat exchanger and appurtenances; new influent fine screen facilities; new blowers for the EQ basins, filters and aeration tanks; new fine bubble aeration system; and tertiary filter conversion to mono-media air/water backwash.

CSO LTCP – North Manchester, Monticello, Frankfort, and West Lafayette, Indiana
Served as project manager for the preparation of long-term plans to reduce and eliminate combined sewer overflows for several communities. The plan preparation involved setting up computer models of the respective sewer systems to evaluate potential improvements to the systems during storm events, estimating the costs of the improvement projects and comparing them to the CSO reduction benefits and determining the cost-effective solutions to meet the CSO regulations spanning a five-to-20-year period.

Kasey Marley, P.E.

Project Manager

317.788.4551

KaseyM@wesslerengineering.com

EDUCATION

Valparaiso University
B.S., Civil Engineering, 2015

REGISTRATIONS AND CERTIFICATIONS

Registered Professional Engineer, Indiana

PROFESSIONAL SOCIETIES

Indiana Association for Floodplain and Stormwater Management (INAFSM)

Indiana Water Environment Association (IWEA)

ACE Mentor Program

Kasey Marley has been employed with Wessler since June of 2015 and has eight years of experience; she serves as a project engineer and manager. She has experience in storm, sanitary and combined sewer collections projects, drainage improvement projects and development of stormwater and wastewater studies and master plans.

Dehart Combined Sewer Overflow (CSO) Storage – City of West Lafayette, Indiana
Study – Served as project engineer and assisted in analyzing alternatives to develop a project that would reduce overflow frequency and volumes at CSO Outfall No. 003 to comply with current regulatory requirements of the City's Long Term Control Plan (LTCP). Calibrated an XPSWMM model of the combined sewer system with flow monitoring data. Analyzed alternatives using the model to determine the optimum solution for meeting the project goal. Completed preliminary design of parallel 144-inch storage pipes. Prepared a design memorandum summarizing the alternative analysis, providing recommendations and outlining project costs.

Design – Served as project engineer and completed design tasks using both XPSWMM modeling software to determine and finalize required storage volumes and AutoDesk Civil3D to analyze the location and dimensions of the proposed combined sewer overflow storage pipes. Assisted in preparation of construction plans to final design including demolition plans, plan and profile sheets and a conflict analysis of existing utility crossings. Aided in the design of the diversion structure to connect the existing combined system to the new CSO storage pipes.

Campus Modeling Study – Purdue University, West Lafayette, Indiana
Served as project engineer and evaluated Purdue University's existing sanitary and storm XPSWMM models and corresponding service areas, drainage areas, flow assumptions, and runoff calculations from 2006 for accuracy. Updated the models to reflect existing sanitary and stormwater infrastructure and revised contributing service areas. Calibrated the system models to flow meter data throughout campus and compared flow results through the system during actual rainfall events to the actual recorded sewer flows. Analyzed the sanitary sewer system for areas of high inflow and infiltration (I/I) and provided alternatives for reduction in I/I. Evaluated the storm sewer system for bottlenecks and provided recommendations for system improvement to alleviate the bottlenecks during standard design storm events.

College Avenue and Main Street Sewer Separation Phase I – Town of Brownsburg, Indiana
Study – Served as project engineer and completed preliminary design tasks to determine the most beneficial and cost-effective solutions to separate an existing combined sewer area and alleviate and reduce impacts of flooding within the downtown area of Brownsburg. Preliminary engineering calculations included drainage area delineations, runoff calculations, hydraulic modeling using XPSWMM modeling software and cost estimating. Prepared a design memorandum and preliminary engineering report (PER) for application for Indiana State Revolving Fund (SRF) funding both of which summarized the alternatives evaluated, provided recommendations and detailed estimated project costs.

Design – Acted as project engineer and manager and designed approximately 4,700 linear feet of new storm sewer ranging in size from 12 to 60-inches, connection to existing storm sewers in the area, disconnections from the existing combined sewer system and determined resolutions to various utility conflicts in a heavily used utility corridor. Designed outfall protection and a siphon where the new storm sewer crosses a main sanitary sewer pipe serving a large area of the Town. Assisted in preparation of construction plans and specifications to final design including demolition plans, grading plans, plan and profile sheets, road repair plans, and erosion control plans. Coordinated with key stakeholders, including the Indiana Department of Transportation (INDOT) and aided in the application for an INDOT permit. Prepared bid and contract documents.

Sanitary Master Plan – City of Carmel, Indiana
Served as project engineer and primary hydraulic modeler incorporating recent flow metering data throughout the community to calibrate an XPSWMM model of the City's sanitary interceptors and determine the existing capacity and available additional capacity of each interceptor. Built the system wide model using known pipe diameters, lengths, connections, invert elevations, and slopes; manhole locations; and ground elevation data. Determined major

interceptors of the system and corresponding service areas. Calculated sanitary sewer flows based on land use and area. Compared calculated flows to recorded flow monitoring data and calibrated the model to flow meter data and evaluated the system for inflow and infiltration areas. Ran recorded rainfall data through the existing system model to determine peak flows during both dry weather and wet weather conditions. Used the model and collaborated with City staff to determine known and prospective future developments and evaluate major system interceptors' future capacity and velocities. The model results and evaluations were then used to identify future sewer projects and their respective preliminary project costs, assisting City officials in budgetary planning for future large-scale sewer projects.

State Street Storm Sewer Study – City of West Lafayette, Indiana
Fulfilled the role of project engineer and reviewed previous studies, design memos and XPSWMM models. Calculated the increase in stormwater runoff to be handled by storm sewers within the State Street corridor as a result of upstream development and combined sewer separation projects. Determined additional storm sewer capacity necessary to serve upstream development and combined sewer separation. Reviewed State Street storm sewer plans prepared by another designer and provided recommendations. Summarized findings and recommendations in a technical memorandum.

North-End Sewer Assessment – City of Lafayette, Indiana
Served as project engineer and completed preliminary drainage area delineations, runoff calculations and modeling using XPSWMM modeling software. Developed and evaluated GI options for sewer separation to remove stormwater flows from the combined system. Calculated the increase in capacity of the combined sewer system because of the removal of stormwater flows. Determined the minimum runoff removal volume necessary to handle future flows as a result of development and sized the selected alternative to infiltrate that volume. Assisted in the preparation of a technical memorandum, exhibits and cost estimate.

EDUCATION

Rose-Hulman Institute of Technology, B.S., Electrical Engineering, 1997

REGISTRATIONS AND CERTIFICATIONS

Registered Professional Engineer, Indiana, Ohio and Kentucky

PROFESSIONAL SOCIETIES

Institute of Electrical and Electronics Engineers (IEEE)

Wayne C. Moore, P.E.

Electrical Group Head/ Senior Project Manager

317.788.4551

WayneM@wesslerengineering.com

Wayne Moore has been employed with Wessler since October of 2006 and has 24 years of professional experience; he serves as both a group head for the Electrical group and a senior project manager. Wayne is a technical specialist in the design of electrical power systems including low and medium voltage power distribution equipment, low and medium voltage motor controls, standby power systems and variable frequency drive systems. He is knowledgeable in the design and implementation of supervisory control and data acquisition (SCADA) systems and instrumentation for both the water and wastewater industries. Wayne has experience in the water and wastewater industries and has designed and overseen construction of several water treatment plants, wastewater treatment plants and pumping station expansions and upgrades, including the following.

Water Treatment Improvements – Speedway Water, Town of Speedway, Indiana
Served as electrical project manager and provided design services for improvements at the surface and groundwater treatment plants required to meet regulatory requirements. The electrical service entrances to each plant were upgraded and automatic transfer switches were added at each plant. SCADA modifications included replacement of outdated programmable logic controllers (PLCs) and updating of plant control software with new alarming and reporting software. Improvements included ultraviolet disinfection equipment, powdered activated carbon equipment, chlorination equipment modifications, new transfer and high service pumps, modifications, additions to the process and yard piping, valves and metering systems, electrical replacements and improvements, and a new 500 kW standby generator. Electrical upgrades included replacement of the two main motor control centers (MCC) at each plant. MCCs were installed in the 1970s and parts were no longer available.

Southport Advanced Wastewater Treatment Plant (AWT) Capacity Expansion – Citizens Energy Group, Indianapolis, Indiana
Served as project engineer responsible for the expansion design of the Southport AWT to significantly increase wet weather treatment capacity. Improvements included modifications to the surface flow wet weather pump station to convey wet weather flows to the new headworks, extensive modification to the existing Clari-Vac final clarifiers to increase capacity from 150 million gallons per day (MGD) to 250 MGD and associated electrical, controls and SCADA. Other improvements include new headworks for screening flows up to 120 MGD from the Deep Rock Tunnel Collector (DRTC) Pump Station and grit removal for both DRTC flows and surface flows of a combined 250 MGD.

Warsaw Wastewater Treatment Plant (WWTP) Improvements – City of Warsaw, Indiana
Served as project engineer responsible for the electrical design of improvements to the Warsaw WWTP to increase its capacity. Electrical design supported the addition of new treatment processes, including an aerated rolling grit removal process (10 MGD firm capacity), new primary clarifiers and a chemical phosphorus removal structure. In addition, anaerobic digesters were added and solids handling facilities were upgraded to reduce the amount of sludge processed, thereby allowing the plant's existing aerobic digester tanks to be retrofitted and repurposed. The design also included improvements to the influent flow meters, new non-potable water system, new maintenance garage and a new emergency back-up generator.

Frankfort WWTP Improvements – City of Frankfort, Indiana
Served as project engineer responsible for the planning, design and bidding of electrical improvements to an existing 4.68 MGD WWTP. The project consists of the complete renovation generator control system and automatic transfer switches, replacement of constant speed motor starters with energy efficient variable speed drives and new control systems, addition of PLCs for control of treatment processes and modifications to electrical systems as required to facilitate the upgrades and modifications to the boiler/heat exchanger and appurtenances. Additionally, the project included influent fine screen facilities; new blowers for the EQ basins, filters and aeration tanks; new fine bubble aeration system; tertiary filter conversion to mono-media air/water backwash; sludge drying bed building improvements; and new disinfection building and contact tank for combined sewer overflow (CSO) discharges to meet long term control plan (LTCP) requirements. Construction cost: $8.4 million.

EDUCATION

Rose-Hulman Institute of Technology,
B.S., Biomedical Engineering,
2012

REGISTRATIONS AND CERTIFICATIONS

Registered Professional Engineer, Indiana

Bailey Husband, P.E.

Control System Engineer
317.788.4551
BaileyH@wesslerengineering.com

Bailey Husband has been employed with Wessler since April of 2022 as a control system engineer. Bailey is experienced in transferring production requirements to automated, commissioned systems in accordance with industry standards. She is proficient in designing instrumentation and controls (I&C) systems, facilitating cross-functional teams and maintaining project schedules, budgets and scope changes to adhere to customer specific project goals. Bailey has more than 10 years of experience in the design and implementation of electrical systems that spans multiple industries, such as oil and gas, water and wastewater, aerospace, and automotive.

Wet Weather Treatment Facility (WWTF) – City of New Haven, Indiana
Served as lead I&C engineer responsible for the design of the I&C at the WWTF. Responsible for design documentation and controls design drawings which include control one-line diagram and process and instrumentation diagrams (P&IDs). This solution utilized a central Allen-Bradley PanelView human-machine interface (HMI) and CompactLogix programmable logic controller (PLC) networked to four manufacturer provided control panels to monitor and control the WWTF.

Biosolids Dewatering Improvements I&C – City of Monticello, Indiana
Served as lead I&C engineer on the biosolids dewatering improvements project that updated three blowers to one centrifuge and conveyor. The centrifuge receives sludge from the existing digester and removes water for disposal. The design included adding a radar level sensor to the existing digester and updating the current plant's supervisory control and data acquisition (SCADA) system.

New Lift Station Sewer Extension I&C – City of Columbia City, Indiana
Served as lead I&C engineer responsible for the design of a new lift station's instrumentation and telemetry system. Collaborated with the city's preferred vendor on equipment selections for the radio and PLC to remain consistent with their previous installations. Additional responsibilities include reviewing shop drawings to ensure the controls and instrumentation portion is constructed in accordance with design specifications.

New Water Treatment Plant (WTP) and Well House Rehabilitation I&C – City of Bourbon, Indiana
Served as lead I&C engineer responsible for the I&C design content and documentation for the new WTP, new well house and two well house rehabilitations. The solution utilized an Allen-Bradley CompactLogix PLC at the WTP and elevated storage tank control panels, remote input and output (I/O) was implemented at the well houses to extend controls capability to those areas, and a new SCADA system was developed utilizing Inductive Automation's Ignition software. A cellular network topology was utilized to communicate with the elevated storage tank. Additional responsibilities included the construction administration activities associated with the project.

Ryan Mathes

Control Systems Engineer

317.788.4551

RyanM@wesslerengineering.com

EDUCATION

Indiana University-Purdue University Indianapolis, B.S., Electrical Engineering

Vincennes University, A.S., Laser and Electro Optics

Ryan Mathes has been employed with Wessler since April 2019 and has 12 years of professional experience; he serves as a control systems engineer. He is an experienced specialist in the design and implementation of electrical instrumentation and control systems. Ryan has three years of experience as a technical manager of an A2LA accredited instrumentation calibration lab where he developed testing and calibration work instructions for process instrumentation. He has ten years of experience in instrumentation and controls system design, customer relations and turnkey system implementation for manufacturing and process control systems across multiple industries. Ryan also has an additional two years of project management experience successfully directing multiple engineers and projects for a well-respected Central Indiana systems integrator. He has been an integral part of the construction of more than 200 projects for more than 100 customers in multiple states and industries, including the following:

Wastewater Treatment Plant (WWTP) Supervisory Control and Data Acquisition (SCADA) System Update – Town of Speedway, Indiana
Responsible for the update of an existing outdated Wonderware SCADA system consisting of Automation Direct and Allen Bradley programmable logic controllers (PLCs) to the most current Wonderware SCADA solution and continues to support the system as the main on-call contact . Installed, set up and commissioned the new SCADA PCs. Software included: Wonderware (SCADA), Software Toolbox TOPServer (third party open platform communications [OPC] server) and Allmax Operator 10 Wastewater edition (third party historian/ database). Serves as the main on-call support for the facility's SCADA system.

WWTP ABB Variable Frequency Drive (VFD) Replacement – Town of Speedway, Indiana
Responsible for the integration activities for replacing an ABB ACS500 VFD to an ABB ACS550 VFD. Integration activities included modifying the program of an Automation Direct PLC to communicate with the ABB ACS550 VFD via Modbus. Acts as the point of contact for on-call services.

WWTP Automated Disinfection Process – City of Bloomington, Indiana
Responsible for the implementation of an automated flow-based disinfection process for the WWTP. Disinfection chemical dosing is controlled by a selectable algorithm governed by user inputs and sensor feedback. Responsibilities for this project included the PLC and human-machine interface programming, commissioning and follow-up support activities.

Water Treatment Plant (WTP) Controls and SCADA programming – City of Lawrence, Indiana
Responsible for the instrumentation and controls (I&C) design and programming activities for a new and existing WTP. Responsibilities included I&C portion of the project manual and drawing sets, as well as the SCADA architecture design, programming and onsite commissioning activities for the migration.

Lift Stations Control System Upgrades Phase I – City of Frankfort, Indiana
Design of new control system and staged implementation process to minimize downtime for multiple lift stations. Electrical design modifications for new equipment with work instructions for install and changeover. Transfer of each site from a Wonderware SCADA system into a new Ignition SCADA system. Responsible for programming and onsite activities for commissioning.

WTP PLC and SCADA System Commissioning – City of Greenfield, Indiana
Responsible for helping with the implementation and commissioning of a SCADA system using Ignition software platform. The project utilized Allen Bradley's PLCs to automate the plant operation. The Ignition SCADA system utilized the combination of the vision and perspective modules to facilitate such features as remote access, alarm scheduling and reporting.

EDUCATION

University of Illinois at Urbana Champaign,
M.S., Natural Resources and Environmental Sciences, 2003

University of Illinois at Urbana Champaign,
B.S., Natural Resources and Environmental Sciences, 2001

REGISTRATIONS AND CERTIFICATIONS

Certified Floodplain Certified Professional in Erosion and Sediment Control (CPESC)

Army Corps of Engineers Wetland Delineation and Management Training Program

Ohio Rapid Assessment Method for Wetlands (ORAM)

PROFESSIONAL SOCIETIES

Indiana Municipal Separate Storm Sewer System (MS4) Partnership

Indiana Association for Floodplain and Stormwater Management (INAFSM)

Nancy Cho, CPESC

Environmental Services Project Manager

317.788.4551
NancyC@wesslerengineering.com

Nancy Cho is a certified professional in sediment and erosion control (CPESC) and trained in U.S. Army Corps of Engineers (USACE) Wetland Delineations and Ohio Rapid Assessment Method protocols. She has more than 16 years of experience in management of preparation, technical review and inspection for erosion and sediment control plans, Clean Water Act (CWA) Section 404 permitting, Section 401 permitting, Flood Control Act permitting, SWPPP preparation and site inspection, national pollutant discharge elimination system (NPDES), and construction site and industrial permitting.

I-69 Water Main Relocations – Town of Bargersville, Indiana
Served as the environmental project manager for completing the construction stormwater permitting and coordination with the Town, Johnson County and Indiana Department of Transportation (INDOT) staff for the relocation of the Town's existing six-inch to 24-inch water mains in conflict with the I-69 road improvements project.

Stormwater Pollution Prevention Plans (SWPPPs) – Indianapolis Airport Authority (IAA), Indianapolis, Indiana
Conducted a site evaluation and prepared SWPPPs for the airport maintenance facility, two airport rescue and firefighting stations, the main terminal and the overall airport property in accordance with their individual NPDES permit. The SWPPPs included: spill potential and environmental impacts to stormwater, bulk chemical and fuel storage and use, application of pavement and/or aircraft deicers, drainage area maps and management of runoff, activity-specific and general best management practices, spill prevention and response procedures, employee training, routine facility and outfall inspections, and inspection and reporting requirements. Provided the client draft SWPPPs for review and comments, recommendations and final SWPPPs.

Construction Stormwater General Permit (CSGP) – Various Projects, Indiana
Developed SWPPPs and obtained permits for stormwater discharges associated with construction and land disturbing activities for various Wessler design projects. Completed plan review and inspection of erosion and sediment control practices and provided comments for various clients.

Wellhead Protection Planning Phase I and Phase II – Various Public Water Supplies, Indiana
Completed Phase II implementation for public water supplies throughout Indiana and continues to implement best management practices for municipalities by facilitating annual meetings to review the program progress, tasks and new developments. Reviewed and updated potential contaminant sources including industries, commercial/business properties, agricultural land and residential properties. Developed public educational materials including news articles, pamphlets, web site information and training materials for utility and emergency response personnel. Facilitated program updates, activity tracking and program progress for the five-year update survey submittal to the Indiana Department of Environmental Management (IDEM). Communities assisted include the Cities of Auburn, Connersville, Decatur and Frankfort, as well as the Towns of Bainbridge, Dublin, Edinburgh, Liberty, North Manchester, Owensville, Roachdale, Speedway, Spiceland, and Woodburn.

Municipal Separate Storm Sewer Systems (MS4s) – Various Communities, Indiana
Provided stormwater quality management plan (SWQMP) development, permit renewals and implementation of best management practices (BMPs). Completed municipal facility inspections and assessments for BMPs, material handling, maintenance activities, waste management, chemical storage, and spill response procedures. Developed and updated SWPPPs incorporating BMPs for pollution prevention and good housekeeping practices. Updated SWQMPs for all minimum control measures (MCMs), pollution prevention and good housekeeping practices, site-

specific BMPs and standard operating procedures. Facilitated audit reviews, activity tracking and annual reporting of programmatic indicators and measurable goals. Provided educational information and materials for community web pages on pollution prevention. Communities assisted: Cities of Beech Grove, Columbus, Connersville and Frankfort, the Towns of Bargersville, Cloverdale, Cumberland, Danville, Edinburgh, Edgewood, New Whiteland, and Speedway as well as Morgan County.

Section 401 and 404 Permitting (Clean Water Act) – Various Projects, Indiana
Developed plans and exhibits for construction work in a waterway for various Wessler design projects. Obtained permit approvals from USACE and IDEM for disturbances within jurisdictional waterways and wetlands for various Wessler design projects.

Indiana Department of Natural Resources (IDNR) Construction in a Floodway Permitting – Various Projects, Indiana
Developed plans and exhibits for construction work in a floodway for various Wessler design projects. Obtain permit approvals from the IDNR for disturbances within the floodway/floodplain.

Wetland Delineations – Various Projects, Indiana
Conducted wetland delineation field work for various Wessler design projects and submitted wetland delineation reports to USACE and IDEM.

On-Call Permitting – City of Fort Wayne, Indiana
Reviewed project plans supplied by City engineers and prepared permit applications, coordinated with regulatory agencies, and obtained approval for stormwater, flood control, and wastewater projects. Permits included CSGP, USACE Sections 404 and 408, IDEM Section 401, IDNR Construction in a Floodway, and Drainage Board approval.

Past Performance

Wessler Engineering staff has completed more than $1.5 million worth of work for the Town of Speedway since 2011. Over the last 12 years, the Wessler team has worked on a wide variety of projects for the Town including: asset management and capital improvement plans, collection system rehabilitation, preliminary engineering reports, local limits evaluations, permitting, SCADA upgrades, and improvements at the drinking water facilities. Wessler personnel also has handled on-call services contracts and been able to provide immediate assistance to Speedway officials through these contracts, including answering operational questions and addressing time sensitive problems as they arise.

Throughout all these projects, the Wessler team has consistently provided high quality work completed on schedule and within budget. Additionally, there has never been any safety issues on any projects. Wessler staff considers effective communication key on any project. In addition to project specific meetings, a progress report is provided to Town officials each month that summarizes the status and budget of all outstanding projects as well as upcoming work. If issues arise during design or construction, Wessler team members bring them to Speedway officials' attention and address them quickly. Wessler staff looks forward to the opportunity to continue to provide quality work for the Town through future projects.

Project Approach

Setting the standard to benefit you

The original Speedway CSO storage facility was brought online in 2013 and includes a diversion structure, one-million-gallon storage tank and a UV disinfection system. After the initial installation, screening and pumps were installed to maximize the storage capacity of the tank. Although the existing facility was designed to store all flow associated with the 10-year one-hour storm event, 16 overflow events have occurred since 2015 that IDEM classified as violations of the Town's Long Term Control Plan (LTCP) which led to the current Agreed Order and need to modify the CSO facility.

These violations are caused by two primary issues: insufficient storage and the impact of recurring wet- weather events. The largest deficiency in the previous design was the assumption that the 72-inch interceptor leading to the wastewater treatment plant (WWTP) could be utilized for storage. The design failed to consider the impact this would have on homes and businesses that are connected to the interceptor where rising water levels result in flow backing up into these homes. To address the flow backups, modifications were made to the system to prevent this from occurring, but these operational changes significantly reduced the storage capacity, leaving the system undersized. The previous design also failed to consider the impact of back-to-back wet weather events. Most overflows occur during weeks where there are multiple rainy days.

At the time of installation of the original project, the primary means of addressing CSO volumes was storage. However, in the interim, new, more affordable options have arisen that can address both the insufficient storage and recurring events. Town officials are considering options through this project that will be capable of meeting the LTCP requirements, but at differing costs to the Town. The key to the successful delivery of this project will focus on the affordability (capital and operational) and operability of the revised infrastructure requiring close coordination with Town staff and the Wessler team. This will require frequent communication and understanding of the desires of the Speedway team along with the technical constraints of each of the alternates.

The delivery of this project is broken into seven distinct phases. These phases are as follows.

Preliminary Investigation

Wessler staff's preliminary investigation and design will start by using a hydraulic model to determine the volume of additional storage required and the anticipated peak flowrate that a wet weather treatment facility (WWTF) would need to accommodate. Coordination with Indiana Department of Environmental Management (IDEM) staff will be an important aspect of the preliminary design stage. Reviewing the results of the model and discussing the alternatives with the IDEM team in the early stages will increase the likelihood of acceptance by IDEM later in the design process. A wetland delineation, topographic survey and geotechnical evaluation also will be completed to understand the conditions of the project site and what site restrictions need to be considered during design. Wessler personnel anticipate the new infrastructure being added to the south of the existing CSO facility on property already owned by the Town, so easement acquisition is not anticipated.

The preliminary design technical memorandum will outline the results of the model and site investigation and evaluate the potential project alternatives. Each of the four alternatives outlined in the RFP will be reviewed, as well as a combination of alternatives. The evaluation will consider capital and operational costs as well as input from plant personnel. An alternative will be recommended based on the results and the tech memo will be sent to IDEM for approval, as required by the Town's Agreed Order.

Design

Following the approval of the technical memorandum from both Town officials and IDEM staff, the Wessler team will prepare 30%,60%, 90% and 100% project document submittals. At each step in the process, project team meetings with Town staff will take place to identify any concerns and provide further concurrence on the direction of the design. Wessler's design team will be local and entirely in-house with employees who are familiar with the project, the Town's facilities and have experience on other CSO projects.

If the preliminary design indicates that a WWTF is the best option, the existing storage tanks would still be utilized for storage of the one year one-hour flow, which is required to receive full treatment through the WWTP, per the Town's LTCP. Flow beyond the one year one-hour event would be diverted to the new WWTF consisting of cloth media disk filters designed for CSO applications and UV disinfection. The facility's existing UV system – utilized during both dry and wet weather – would need to be expanded or replaced with a larger system. Storage issues in the 72-inch interceptor could be addressed by disconnecting the nearby homes and installing infrastructure that would allow for the flow to be pumped directly to the WWTP. However, it is anticipated that only increasing the storage capacity of the interceptor would not be enough to eliminate CSO events. The use of the interceptor storage would likely need to be used in conjunction with another alternative.

Additional storage tanks would be positioned south of the existing CSO tank. Flow would be screened and enter the existing tanks as it does currently. Then when water levels rise to a set point, flow would be sent to the new storage tanks through new piping that would run under the plant drive. Tipping buckets and return pumps would be installed to match the equipment in the existing tank.

Environmental Review and Permitting
Concurrent with the initial investigation and design phases, Wessler staff will provide the necessary and appropriate local, state and federal environmental reviews and permitting assistance for construction of the facilities. A wetland delineation of the project area will be performed. Impacts to wetlands are not anticipated and wetland permitting is not included in this proposal. The proposed project area may include a portion of the floodway for Eagle Creek. The Wessler team assumes the project will cause a minimal and permissible change in the floodway's cross-sectional flow area with no regulatory requirement for flood modeling. An Indiana Department of Natural Resources (IDNR) Construction in a Floodway Permit application will be prepared and submitted to IDNR. Wessler staff will complete and submit a Stormwater Pollution Prevention Plan to the Marion County Soil and Water Conservation District for approval and submit Construction Stormwater General Permit documentation to IDEM. An IDEM Wastewater Construction Permit also will be submitted. The cost of the required permits, based on November 2023 pricing has been included in the project fee.

Bidding Services
Upon completion of the project design, the Wessler team will assist Town officials with putting the project out for bid and assuring all requirements are met based on the selected funding source. A pre-bid meeting will be held to review the project in detail with the interested contractors. Addendums will be issued in the weeks leading up to the bid opening addressing any questions the contractors have. Once bids are received, Wessler staff will evaluate the bid packets and prepare a certified bid tab and recommendation for Speedway officials. Finally, conformed documents that incorporate all addendum items will be prepared and distributed to the Town team and selected contractor.

Construction Services
Throughout the construction of the project, the Wessler team will help Town officials coordinate with the contractor and assist in minimizing the impact of the construction on the Town's staff. The design project manager will continue to be heavily involved during construction to provide insight and clarification on the design intent. Wessler staff also will have a construction project manager on the team who will have a strong construction background. He will assist with issues that arise in the field and work with the contractor to ensure that all non-conforming work is addressed correctly. Wessler's team will prioritize good communication between all parties and make sure the Town team is involved in decisions being made.

Project Closeout
As the project finishes, Wessler staff will assist with all project closeout items including substantial and final completion, a walkthrough inspection and review of the final pay application and request for the release of retainage. Closeout documents such as as-built drawings, warranties, operation and maintenance manuals and startup reports will be reviewed for completeness. A closeout review meeting will take place between the Wessler and Town teams. The meeting will serve as a time to review any outstanding issues and discuss lessons learned from the project.

Post Construction Trouble Shooting and Warranty Services
For the year following the substantial completion, Wessler personnel will provide operational support and troubleshooting. Services will focus on consultation with plant operations as they are impacted by construction activities and sequencing of the work, including guidance on process monitoring and control, sampling and data tracking.

If warranty issues arise, the Wessler staff will visit the site to observe apparent defects in the work, assist Speedway staff in consultations and discussions with the contractor concerning correction of any such defects and make recommendations as to replacement or correction of the defective work.

The Wessler Engineering team looks forward to continuing our relationship with Town officials and staff through this project. We will bring our experienced staff with direct knowledge of Speedway's facilities and personnel. Through our past projects, Wessler staff has the foundation of both project specific and personnel knowledge that are requisite for the successful delivery of this project. We look forward to providing both to this project.

Fee Justification

Wessler Engineering Proposed Fee

Task	Cost
Task A – Project Management	$25,000.00
Task B – Preliminary Investigations and Design	$90,000.00
Task C – Design	$330,000.00
Task D – Environmental Review/Permitting	$25,000.00
Task E – Bidding Services	$35,000.00
Task F – Services During Construction	$300,000.00
Task G – Project Closeout	$40,000.00
Task H – Post Construction/Trouble Shooting/Warranty Services and Assistance	$20,000.00
Total Fee	**$865,000.00**

Fee Justification

FEE JUSTIFICATION

Project Name:
Speedway CSD Expansion Planning and Design Services
Project Number:
PD5417
Project Manager:
RJS
Prepared By:
MW
Reviewed By:
RWH
Total Hours

MAW	GLR	KRCJ	RJS	HNM	WCM	SCP	MJW	ALH	NRC	MDB	MLN	JRW	GRH	JL	RWC MJT TWL DWG	DEL JMP	JWH	CAS	JDP	DMK	RJY
SAS	JRB	JLJ	ACH	BH			JLK		NW												
RWH	WJL	KKW	MKT																		
	ALT	BR	MAP																		
	JDN	LHR	RDL																		
	KJW	LJH																			
	KMZ	NAB																			
	MJD	TPH																			
		JAA																			
82	1108	1218	1185	187	56	88	232	10	24	82	232	30	16	282	20	8	8	60	80	108	8

Scope of Services	Hourly Rate	$250.00 PRINCIPAL ENGR II	$230.00 SR. PM II SR. PE II	$165.00 PM PE III	$145.00 PE II	$145.00 CNTRL SYS ENG III	$250.00 EL. SR. PM II	$210.00 EL.SR. PM I EL. SR. PE I	$135.00 EL. PE I	$175.00 ES SPM II	$165.00 ES SPM I	$110.00 ENV SCIENTIST III	$185.00 SR CAD MGR I	$135.00 CAD MGR I	$105.00 GIS TECH II	$115.00 TECH IV	$105.00 TECH III	$215.00 PROF LAND SUR	$145.00 SURVEY MGR II	$115.00 SURVEY CREW CHIEF II	$105.00 SURVEY CREW CHIEF I	$120.00 PROJECT ANALYST I	$65.00 PROJECT ADMINISTRATOR	Fee by Task	Hours by Task
Category		195	200/213	229/188	265	340	360	249/375	266	403	405	427	735	765	765	719	725	625	621	519	615	975	950		
Task A – Project Management																									
Project Kickoff Meeting			4	4	4																	2		$2,425.00	14
Project Coordination Meetings			8	24	24																			$9,226.00	56
Project Updates (Budget, Schedule, Design)				40																				$6,800.00	40
General Project Management				40																				$4,400.00	40
Total Hours:		0	12	108	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	$24,851.00	150
Cost:		$0.00	$2,820.00	$17,820.00	$4,060.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$245.00	$0.00		
Task B – Preliminary Investigations and Design																									
Site Survey																								$19,480.00	160
Review Historical Temp/ Drawings & LTCP				16	20									200						60	60			$4,950.00	30
Geotech Evaluation			28																					$4,760.00	28
ADA/DA Coordination						367																		$4,980.00	28
Hydraulic Model				16	60			8																$13,250.00	70
Design Alternative Evaluation (4)			20	40	40	4			16															$20,280.00	120
Technical Design Memoranda & Exhibits			8	20	40		4		4															$23,120.00	132
Total Hours:		0	56	132	160	20	4	8	20	0	0	0	0	40	0	40	0	0	0	60	60	0	0		
Cost:		$0.00	$13,630.00	$21,450.00	$14,300.00	$3,300.00	$1,000.00	$1,680.00	$3,700.00	$0.00	$0.00	$0.00	$7,300.00	$4,050.00	$0.00	$4,400.00	$0.00	$1,680.00	$1,160.00	$6,000.00	$9,000.00	$0.00	$0.00	$89,350.00	584
Task C – Design																									
Project Review Workshops (30,60,90%)			12	24	32																			$11,130.00	66
Wastewater Design		40	40	200	240																			$80,100.00	540
Project Manual - Process			40	160	120																			$47,320.00	320
Constructability Review/ Schedules			8																					$1,880.00	8
Cost Estimates			24	80	20																	20	2	$17,780.00	146
Electrical							20		144															$26,540.00	184
I&C						160		32										20						$21,845.00	127
CAD			220										160			210								$31,920.00	270
Structural																								$34,820.00	220
Environmental																								$1,470.00	10
GIS/GC		20	20	10				2	8															$11,350.00	80
Total Hours:		60	373	808	436	120	22	32	144	0	0	0	160	0	0	210	20	0	0	0	0	20	2		
Cost:		$15,000.00	$87,656.00	$69,235.00	$62,356.00	$17,325.00	$5,550.00	$4,620.00	$16,448.00	$300.00	$1,320.00	$0.00	$29,600.00	$0.00	$0.00	$23,100.00	$2,900.00	$0.00	$0.00	$0.00	$0.00	$3,000.00	$190.00	$329,890.00	1943
Task D – Environmental Review/Permitting																									
IDEM Construction Permit		2		16	36					2	6	36											2	$7,683.00	52
DNR Construction in a Floodway Permit				4						4	8	24											2	$6,270.00	52
IDEM Construction Stormwater General Permit				4						2	12	6												$5,415.00	42
Wetland Delineation				2						4	8	24												$1,560.00	28
Total Hours:		2	0	24	36	0	0	0	0	10	34	90	0	0	0	0	0	0	0	0	0	0	6		
Cost:		$390.00	$0.00	$3,960.00	$4,392.00	$0.00	$0.00	$0.00	$0.00	$1,405.00	$4,250.00	$6,820.00	$0.00	$0.00	$1,890.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$285.00	$23,325.00	173
Task E – Bidding Services																									
Bidding Assistance (Advertise & Pre-Bid Mtg)				8	8																	2		$2,395.00	16
Contractor Questions/Addenda			12	36	80	14	8	32	144													4		$23,720.00	140
Bid Evaluation & Recommendation				4	8																	4		$2,300.00	16
Conformed Documents				4	8																	2		$6,600.00	48
Total Hours:		0	12	44	80	14	8	32	144	0	0	0	16	0	0	16	0	0	0	0	0	12	0		
Cost:		$0.00	$2,820.00	$7,260.00	$11,600.00	$2,310.00	$1,500.00	$1,060.00	$1,890.00	$0.00	$0.00	$0.00	$2,960.00	$0.00	$0.00	$1,760.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,320.00	$0.00	$34,980.00	272
Task F – Services During Construction (CA)																									
Pre-Construction Meeting			4	12	8																	2		$3,330.00	20
Submittal Reviews			72	80	120	24	12	12	24													60		$61,140.00	364
Project Coordination		10	120	120	40																			$53,090.00	270
PTM to resolve Field Issues, Design and Construction Issues		4	52	40	40	12	4	4	12				16			16								$37,356.00	206
RFIs		8	56	40	40	12	4	4	12													4		$32,340.00	174
Construction Progress Meetings			72	72	72																			$39,240.00	216
Retainer/Shutdown Assistance			30	16	16																			$12,010.00	62
Non Conforming Work Assistance			50	20	20																			$17,950.00	90
Startup Assistance			40	20	20																			$17,950.00	90
Pay Applications			12	50																				$9,600.00	58
Punch Lists			40	20		4	2	8														16		$14,512.00	92
Total Hours:		22	563	434	376	48	24	28	54	0	0	0	16	0	0	16	0	0	0	0	0	88	0		
Cost:		$5,500.00	$132,376.00	$69,860.00	$54,520.00	$7,920.00	$6,000.00	$4,200.00	$7,290.00	$0.00	$0.00	$0.00	$2,960.00	$0.00	$0.00	$1,760.00	$0.00	$0.00	$0.00	$0.00	$0.00	$7,920.00	$0.00	$298,756.00	1837
Task G – Project Closeout																									
Substantial Completion			8	8																				$3,200.00	16
Final Completion			8	8																				$3,200.00	16
Final Pay Application/ Release of Retainage			8	8																				$3,200.00	16
Closeout Documents			16	20	20																			$8,900.00	54
Final Inspection			72	8	8																			$4,820.00	24
Change Orders			40	20	20																			$15,020.00	80
Total Hours:		0	152	72	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Cost:		$0.00	$21,160.00	$11,880.00	$8,900.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$39,990.00	210
Task H – Post Construction/Trouble Shooting/Warranty Services and Assistance																									
Trouble/Shoot Assistance				27	36																			$5,965.00	35
Warranty Assistance				30	30																			$13,025.00	65
Total Hours:		0	0	57	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Cost:		$0.00	$0.00	$9,405.00	$10,584.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$18,990.00	130

Travel $0.655 Per Mile	Printing	Postage	Permits	GPS $25.00 per hour	Expense	LABOR AND EXPENSE
40						
52						
92				0		
$60.00	$0.00	$0.00	$0.00	$0.00		$25,000.00
382				16		
$250.00	$0.00	$0.00	$0.00	$400.00		$90,000.00
129	31					
$79.00	$31.00	$0.00	$0.00	$0.00		$300,000.00
55	14	30	100			
55	16	13	225			
110			415	2		
$66.00	$29.00	$39.00	$1,488.00	$50.00		$25,000.00
					$1,675.00	
0	10					
$0.00	$10.00	$0.00	$0.00	$0.00		$95,000.00
374						
$245.00	$3.39	$0.00	$0.00	$0.00		$300,000.00
					$245.00	
0	10			0		
$0.00	$10.00	$0.00	$0.00	$0.00		$45,000.00
					$10.00	
0	16			0		
$0.00	$16.00	$0.00	$0.00	$0.00		$30,000.00
					$16.00	

$867,230.00

TOTAL LABOR & EXPENSE $865,000.00

RQAW

DCCM

DECEMBER 1, 2023

REQUEST FOR QUALIFICATIONS

TOWN OF SPEEDWAY

CSO EXPANSION PLANNING AND DESIGN SERVICES

Project Contact
Aaron Crow, PE
Senior Project Manager
317.588.1772
acrow@rqaw.com

Authorized Negotiator
Lisa Casler, PE
Division Director of Transportation, Principal
317.588.1737
lcasler@rqaw.com

Responsible Office
8770 North St., Ste. 110
Fishers, IN 46038

REFERENCES

Dave Schmidt - Wastewater Superintendent
City of Alexandria
daveschmidt604@gmail.com
765.724.4733

Alan Martin - Manager of
Water/Wastewater Utilities
NineStar
amartin@ninestarconnect.com
317.323.2035

Glen Murray - Utilities Supervisor
City of Elwood
gmurray@elwood.in.gov
765.552.9844

RQAW Headquarters
8770 North Street, Suite 110
Fishers, Indiana
317.588.1798

December 1, 2023

Town's Clerk Treasurer
Town of Speedway
5300 Crawfordsville Rd.
Speedway, IN 46224

Re: Request for Qualifications for CSO Expansion Planning and Design Services for the Town of Speedway

To Whom it May Concern:

The combined team of RQAW | DCCM (RQAW) and United Consulting is excited for the opportunity to partner with the Town of Speedway to provide CSO Expansion Planning and Design Services. Based on our project experience with similar projects and our team's reputation for providing exceptional customer service, we are confident we can help achieve the Town's goals while delivering a successful project that is on-time and on-budget.

RQAW has met and talked with the Town Manager and Wastewater Superintendent to better understand how to prioritize the Town's focus on their CSO Expansion Planning and Design Services. We have previously partnered with many communities like yours to achieve their WWTP expansion goals, and ***our team will be working close with United Consulting*** to ensure high-quality project delivery for the Town of Speedway.

We hope to develop a longstanding relationship with the Town of Speedway and exceed your expectations with our innovative design, superior communication, and on-time delivery. Throughout our attached Statement of Qualifications, we will illustrate our team's ability to provide you with:

- Expertise and resources directly relevant and available for the proposed project. ***(pages 3-5)***
- Unmatched experience in OCRA and SRF grant funding. ***(pages 6-7)***
- Relevant experience based on past projects. ***(pages 8-10)***
- A team with the experience, flexibility, and capacity to handle any challenges that may arise. ***(pages 11-14)***
- Description of scope services. ***(pages 15-17)***
- Anticipated project schedule and proposed fee. ***(pages 18-19)***
- Exceptional service to guide you through each step of the project to successfully reach your goals.

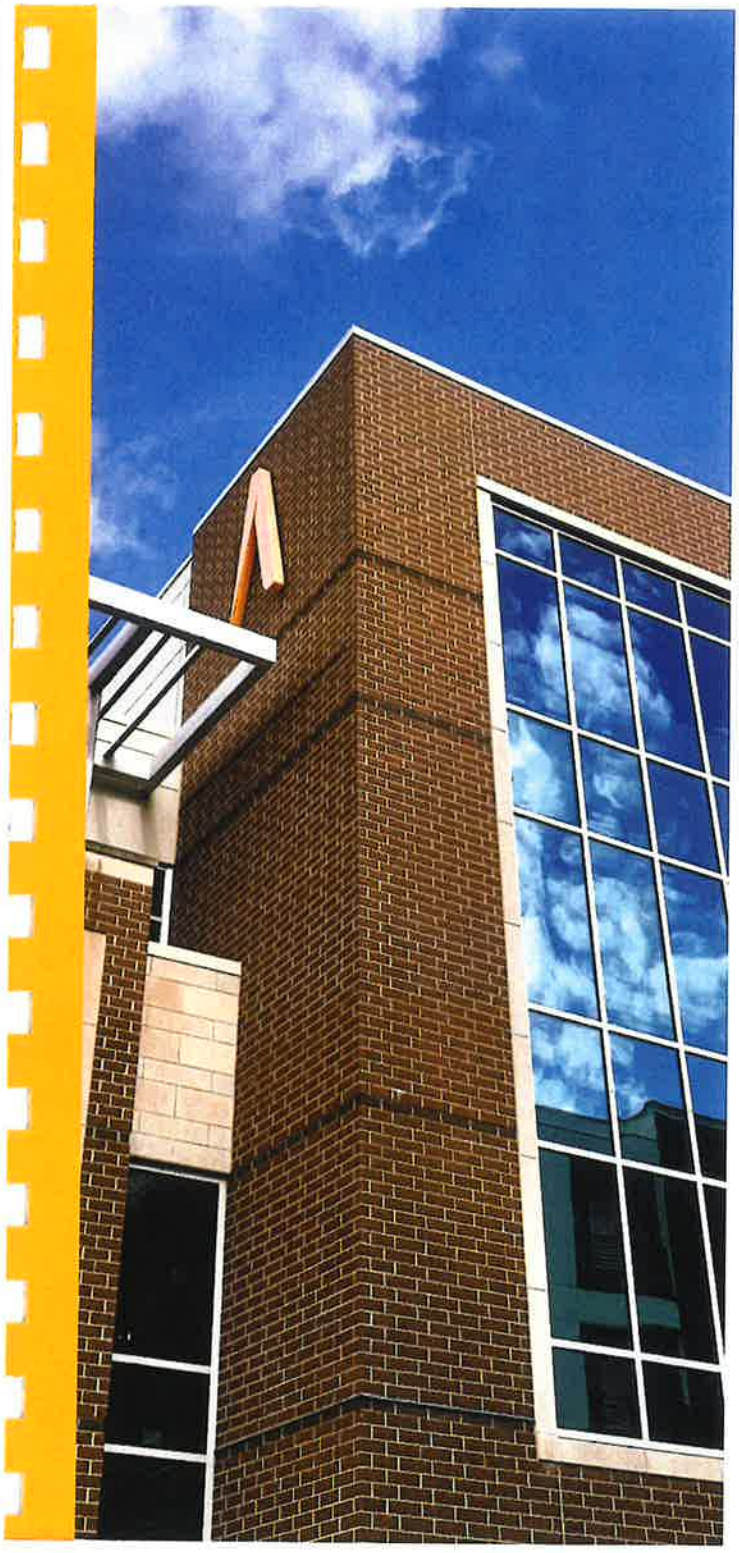
As you move forward through our Proposal and Statement of Qualifications, we hope you will find that our team is resolute in our commitment to the success and vision of your project. We look forward to speaking with you further about this opportunity. If you have any questions, please feel free to contact me at acrow@rqaw.com or 317.588.1772.

Sincerely,

Aaron Crow

Aaron Crow, PE
Senior Project Manager

FIRM OVERVIEW



SINCE 1954, RQAW HAS BEEN HELPING OUR CLIENTS BUILD THRIVING COMMUNITIES.

We are a full-service architecture and engineering firm that provides a wide array of services ranging from architectural design to complex infrastructure projects. With every design, we strive to exceed our client's expectations while delivering projects on-time and on-budget.

With almost 70 years of experience, our highest priority has always been developing lasting relationships and providing exceptional customer service. We are committed to bringing our client's visions to life, from initial concept to final inspection. Through practical solutions, innovative design, and high-quality project delivery, we will collaborate with you to propel your community forward and positively impact the people who live there.

COMPREHENSIVE SERVICES

- ARCHITECTURE & PLANNING
- BRIDGE SERVICES
- CONSTRUCTION ADMINISTRATION
- CONSTRUCTION INSPECTION
- ELECTRICAL, INSTRUMENTATION, & CONTROLS
- ENVIRONMENTAL SERVICES
- HISTORIC PRESERVATION
- LAND SURVEY
- LANDSCAPE ARCHITECTURE
- MEP ENGINEERING
- ROADWAY SERVICES
- SITE/CIVIL ENGINEERING
- STORMWATER HYDRAULICS
- WATER/WASTEWATER

NAVIGATING PAST PROJECTS

CAPABILITIES TO PROVIDE RESPONSIVE PROFESSIONAL SERVICE

At RQAW, our clients are our partners. We strive to provide excellence in responsiveness. For your project, you will have access to multiple team members who are experts in their field. Our staff will be available to the Town of Speedway if any additional needs arise throughout this project.

EXPERIENCE IN RESOLVING CONFLICT

RQAW provided design, bidding, and construction phase services for a County as the client and Town as the ultimate owner of the utility once construction was complete. Both parties had different goals and levels of engagement in the project. This led to conflict between the County/Town, as well as the Town's Utility Manager and his town Council/Clerk Treasurer. RQAW was able to resolve conflict by sending detailed emails to all parties, following up critical emails with phone calls to points of contact, and attending all town council or commissioner meetings requested.

A HISTORY OF MEETING DEADLINES

RQAW works tirelessly to meet and exceed deadlines. Recently, we have met many tight timelines, including designing an entirely new water main system for a client while simultaneously providing survey to achieve 100% design in a matter of a couple months.

UNMATCHED SAFETY RECORD

RQAW prioritizes the safety of its clients, contractors, and staff. We ensure safety plans are considered, followed, and maintained throughout the design and construction process.

WATER/WASTEWATER SERVICES

RQAW's Water/Wastewater engineers will provide water, wastewater, and stormwater services that will help provide communities with long-term solutions. Our engineers address communities' needs, holistically and safely, by resolving ongoing concerns and identifying potential issues that could lead to costly repairs.

DRINKING WATER SERVICES

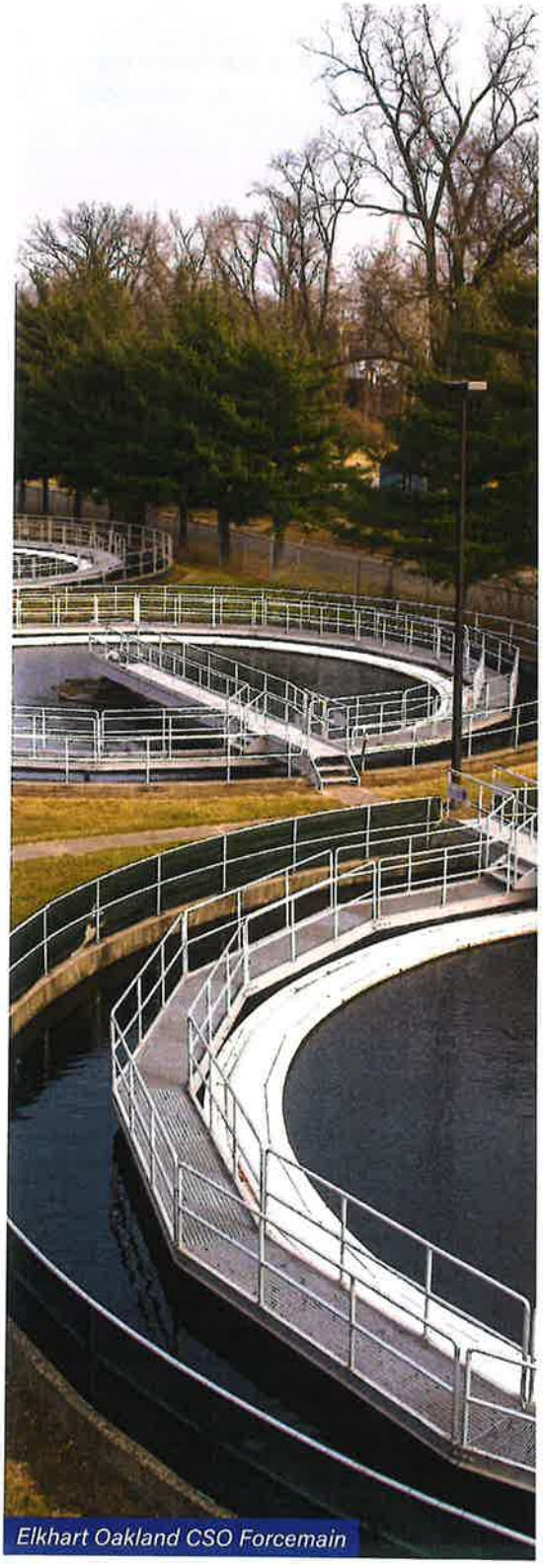
- CONSTRUCTION ADMINISTRATION
- DISTRIBUTION SYSTEM MODELING
- ELECTRICAL SYSTEM DESIGN
- ELEVATED, GROUND, & UNDERGROUND STORAGE
- FLOW TESTING
- INTAKE STRUCTURES
- MASTER PLANNING WATER DISTRIBUTION SYSTEMS
- SUPERVISORY CONTROL & DATA ACQUISITION
- WATER TREATMENT

WASTEWATER SERVICES

- CAPACITY, MANAGEMENT, OPERATION, & MAINTENANCE (CMOM) PLANNING
- COLLECTION SYSTEM REHABILITATION
- COMBINED SEWER OVERFLOW MANAGEMENT
- CONSTRUCTION ADMINISTRATION
- ELECTRICAL SYSTEM DESIGN
- EXTENDED AERATION PACKAGE PLANT & SLUDGE DRYING BED DESIGN
- FORCE MAINS & LIFT STATIONS
- LOW-PRESSURE SEWER SYSTEMS
- SEPTIC TANK ELIMINATION PROJECTS
- SUPERVISORY CONTROL & DATA ACQUISITION
- WASTEWATER COLLECTION SYSTEMS
- WASTEWATER TREATMENT PLANTS

STORMWATER SERVICES

- COLLECTION DESIGN
- DESIGN & EVALUATION OF DAMS
- DRAINAGE STUDIES & MASTER PLANNING
- ENVIRONMENTAL RESTORATION/ENHANCEMENT
- HYDRAULIC & HYDROLOGY MODELING
- LEVEE DESIGN & EVALUATION
- MUNICIPAL REVIEW
- OPEN CHANNEL FLOW ASSESSMENT & DESIGN
- STORAGE BASINS
- STORMWATER SEPARATION DESIGN
- TREATMENT



Elkhart Oakland CSO Forcemain

PROJECT FUNDING

OVER THE PAST FIVE YEARS WE HAVE WORKED ON SEVERAL PROJECTS TOTALING OVER $25M IN GRANT FUNDING.

RQAW has assisted many clients throughout the funding process. Recent projects include, but are not limited to, DNR Historic Preservation, USDA, SRF, and OCRA, as shown below.

INDOT HARDSHIP FUNDING

ELWOOD SR 28 WATER & SEWER GRANT AWARD
GRANT AWARD: $7,000,000

The RQAW team created an INDOT utility work plan and subsequent memorandum documents to identify and prove need for replacement water main and gravity sewer along the complete SR-28 corridor during INDOT's proposed SR-28 reconstruction project in Elwood. With substantial coordination, RQAW and the City were able to make an agreement with INDOT for full reimbursement of replacement and relocation. The project is now in the design phase; where RQAW continues in their efforts for the city.

DNR HISTORIC PRESERVATION GRANTS

DAVIESS LAYLIGHT AND SKYLIGHT RESTORATION
GRANT AWARD: $50,000

DAVIESS COURTHOUSE ADA COMPLIANCE UPGRADE
GRANT AWARD: $50,000

GREGG PARK SHELTER HOUSE
GRANT AWARD: $50,000

USDA GRANTS

TOWN OF HOPE TOWN HALL REDESIGN
GRANT AWARD: $20,000

PUTNAM COUNTY JAIL, FL
GRANT AWARD: $16,500,000

OCRA PLANNING AND CONSTRUCTION GRANTS, AND SRF FUNDING PACKAGES

BENTON COUNTY
GRANT AWARD: $40,000

RQAW helped the County update their 12-year-old comprehensive plan. We addressed issues that had evolved since the prior plan's inception and identified analytical strategies.

CITY OF GARY
GRANT AWARD: $2,000,000

RQAW provided the City with asset management plans and grant assistance for roadway projects throughout the city.

CITY OF NEW CASTLE
GRANT AWARD: $600,00

RQAW assisted the City with submitting and acquiring the grant funding, design, cost estimating, and bidding and assisted through construction. The project consisted of the addition of two 75 HP turbo blowers at the wastewater treatment plant.

TOWN OF DUGGER
GRANT AWARD: $500,000

RQAW assisted the Town with submitting and acquiring the grant funding, design, cost estimating, and bidding and continued to assist through construction. The project consisted of over 11,000 ft of water main asbestos pipe replacement.

TOWN OF KINGSFORD HEIGHTS (2 GRANTS)
GRANT AWARD: $545,000 CCMG

RQAW provided the Town with an asset management plan and assisted with INDOT CCMG grant applications to address roadway resurfacing and preservation.

GRANT AWARD: $600,000 OCRA

RQAW provided grant assistance through OCRA for influent pump station and clarifier improvements.

CONTINUED >

PROJECT FUNDING

OCRA PLANNING AND CONSTRUCTION GRANTS, AND SRF FUNDING PACKAGES CONTINUED

TOWN OF LAPEL
GRANT AWARD: $351,357 (2017), $375,000 (2018), AND $315,000 (2019)

RQAW prepared a grant application with the Town for mill and overlay projects in 2017 and full-depth road reconstruction projects in 2018. RQAW prepared an application for sidewalk, ADA curb installation, and road mill and overlay projects in 2019.

CITY OF ALEXANDRIA (3 GRANTS)
GRANT AWARD: $600,000

RQAW assisted the Town with submitting and acquiring the grant funding, design, cost estimating, bidding, construction administration, and construction observation. The project consisted of approximately 2,100 ft of 24-in storm sewer, 450 ft of 12-in storm sewer, and a new outfall along Pipe Creek.

GRANT AWARD: COMBINED $670,000 FOR CCMG (2018 & 2019)

RQAW prepared a grant application with the City for mill and overlay projects in 2017 and 2018. In 2019, RQAW prepared a grant application for paving projects and green infrastructure with the goal of addressing the City's Long Term Control Plan (LTCP).

GRANT AWARD: $700,000 FROM OCRA

RQAW prepared a grant application with the City for the addition of a complete 1200-square-foot phosphorus removal building and rehabilitation of two clarifiers on the wastewater treatment plant site.

TOWN OF MILTON
GRANT AWARD: $3,000,000 (SRF)

RQAW developed a preliminary engineering report (PER) and SRF application that not only secured an OCRA grant, but an additional $3M in funding from SRF. The project designed by RQAW primarily included approximately 1 mile of water main replacements and $1M in lead service line replacements.

TOWN OF NORTH SALEM
GRANT AWARD: $700,000 CONSTRUCTION GRANT FROM OCRA AND $1,010,000 FORGIVABLE LOAN FROM SRF

RQAW assisted the Town to secure grant and loan funding for the design and construction of a new drinking water treatment plant. RQAW prepared a PER and cost estimates for a combination of SRF and OCRA funding, adhering closely to the timelines both agencies required to be eligible for the lowest interest rates and the maximum grant award amount.

GRANT AWARD: $50,000 OCRA PLANNING GRANT

RQAW assisted in securing an OCRA Planning Grant for a master utility study of the Town's water, wastewater, and stormwater utilities. Through conversations with the Town staff, council, and residents, RQAW developed a list of priorities and solutions for each utility.

TOWN OF WHEATLAND
GRANT AWARD: $700,000

RQAW provided assistance in OCRA Community Development Block Grant (CDBG) and SRF loan applications. The project consisted of 26,000 linear feet of water main and $600,000 in lead and galvanized steel service line replacement, replacing the Town's entire drinking water distribution system.

TOWN OF WHEATLAND
GRANT AWARD: $10,000,000

RQAW provided assistance in SRF report applications to secure funding. The project consists of a low pressure sanitary sewer system for the entire town along with a new wastewater treatment plant. This new wastewater system will replace the need for individually owned and widely failing septic systems which have caused environmental concerns in recent years.

TOWN OF DUGGER
GRANT AWARD: $90,000 OCRA PLANNING GRANT

The Water/Wastewater team at RQAW contracted with the Town of Dugger to provide OCRA Master Utility Studies for the Town's three utilities: Water, Wastewater, and Storm. RQAW worked with the Town to determine recommended projects for the next 20 years, and delivered all three master utility studies in a rapid timeline to provide maximum funding opportunities for the fiscal year. In addition, an Asset Management Plan was created for the Wastewater Utility, to satisfy SRF funding requirements.

TOWN OF WINAMAC
GRANT AWARD: $1,000,000

RQAW assisted the with grant applications to address sidewalks and street lighting improvements throughout downtown Winamac.

DEMONSTRATED PROJECT EXPERIENCE

In addition to the projects listed, ***RQAW HAS PREPARED OVER 50 PERS*** to help its communities secure funding for their projects.

STORMWATER SEPARATION AND LTCP UPDATE

ALEXANDRIA, IN

RQAW has assisted with the City of Alexandria's Long-term Control Plan since 2018, when the City contracted with RQAW to develop and secure IDEM approval for an update to their LTCP. This update resulted in approximately $5M in savings and extended the schedule by five years to allow the City to spread out the cost of the project over a longer period of time.

In addition to the LTCP Update, RQAW also helped fund, design, and inspect a 30-36-in stormwater separation project through the City's downtown. This project, comprising the most downstream trunk of the City's largest storm interceptor, is a key component of the City of Alexandria's Long-Term Control Plan. Prior to construction, all storm and sanitary flows were conveyed to a single point at the intersection of Pennsylvania and Washington Streets before flowing to the 3-ft by 5-ft brick combined sewer to the downstream outfall and wastewater treatment plant. RQAW completed the design services to remove the storm flows from the combined system and convey them directly to Pipe Creek, offloading approximately 350,000 gallons of clear water from the combined system. The interceptor consists of approximately 2,200 ft of 30-in and 36-in polypropylene pipe constructed down a narrow roadway corridor with a railroad crossing. Inlets were added throughout the service area to capture on-site watershed drainage in addition to the off-site drainage at the tie-in point. RQAW also assisted the City through the OCRA grant application process to secure $600,000 in grant funds. Construction was completed in March of 2020.

REFERENCE

Dave Schmidt - Wastewater Utilities Superintendent
City of Alexandria
alexwwtp@yahoo.com
765.724.4733

SR 28 WATER & SEWER UTILITY RELOCATION

ELWOOD, IN

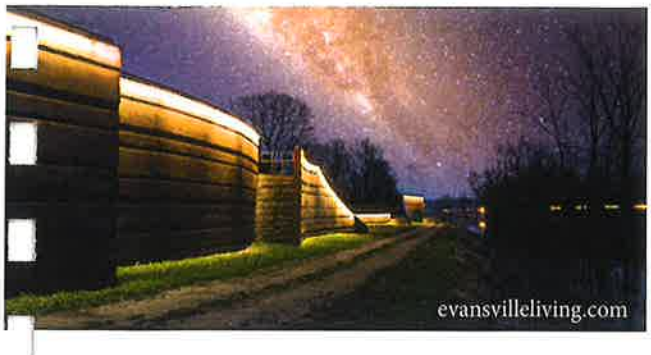
The RQAW team created an INDOT utility work plan and subsequent memorandum documents to identify and prove need for a replacement water main and gravity sewer along the complete SR 28 corridor during INDOT's proposed SR 28 reconstruction project in Elwood. With substantial coordination, RQAW and the City were able to make an agreement with INDOT for full reimbursement of replacement and relocation. The project is now in the design phase where RQAW continues in their efforts for the city.

REFERENCE

Glen Murray - Utilities Supervisor
City of Elwood
gmurray@elwood.in.gov
765.552.9844

This project will reduce CSO events through the reduction of infiltration and inflow (I/I).

DEMONSTRATED PROJECT EXPERIENCE



BEE SLOUGH

EVANSVILLE, IN

The City of Evansville had pervasive combined sewer overflows at its Bee Slough, a large ditch that eventually discharged to the Ohio River. At a previous company, Aaron designed an overflow structure to maximize in-line storage and a buried linear storage system to provide relief during high-flow events. These improvements cost $13.3M and were completed in 2018. Combined, the improvements reduced overflow events, helping the City accomplish its Long-term Control Plan.

STORMWATER IMPROVEMENTS

RUSHVILLE, IN

RQAW is working with Rush County and the City of Rushville to address chronic flooding through many parts of the City and County. This flooding also finds its way into the City's separate sanitary sewer system, leading to reduction of the wastewater treatment plant's available capacity and preventing further economic development.

Funding this $15M project is the key challenge to the project. Our solution is to submit for FEMA's Building Resilient Infrastructure and Communities (BRIC) grant to make the construction of this project a reality and foster a partnership with the City and County, as well as financial advisors. Together, these efforts will result in a successfully funded project.

REFERENCE

Chuck Kemker - Emergency Management
Administrator Director
Rush County
ema@rushcounty.in.gov
765.932.8391

UNION COUNTY WATER AND SEWER EXTENSION

LIBERTY, IN

RQAW worked with Union County and the Town of Liberty throughout the project to develop a plan for extending water and sewer services southeast of town along US 27 for future developments. This project included both water main and force main along with a new lift station. Special considerations were made throughout design given the unique county/town relationship and state requirements along INDOT right-of-way.

One of the key challenges to this project was most of the water and sewer were within INDOT right-of-way limits as the team was designing the system for a future development. Our solution was to coordinate with INDOT early and upfront along with our roadway services department to ensure a positive permitting experience. The solution to designing for future development was to directly contact owner and potential developers of the site to understand potential land use.

REFERENCE

Tim Williams - County Commissioner
Union County
indianaduke@yahoo.com
765-265-3938

DEMONSTRATED PROJECT EXPERIENCE

RILEY VILLAGE SANITARY SEWER

GREENFIELD, IN

RQAW worked for the owner NineStar Connect to design and develop plans for Riley Village's sanitary sewer system replacement. RQAW worked with stakeholders, including the neighborhood's homeowners association (HOA) to effectively secure land access. The project also included sanitary sewer replacement for approximately 80 homes as well as rehabilitation for some existing sewer segments crossing under Sugar Creek.

One of the key challenges in this project was maintaining access to homes during construction of the new sanitary sewer, which would primarily be under HOA-owned roadway. RQAW designed the sewer system to minimize full-lane closures and above-ground impacts to residents.

REFERENCE

Alan Martin - Manager of Water/Wastewater Utilities
NineStar
amartin@ninestarconnect.com
317.323.2035

CR 200 SANITARY SEWER

GREENFIELD, IN

RQAW worked with NineStar Connect and coordinated Hancock County to develop and design a project to bring sanitary service to the unserviced area west of Greenfield along CR 200 from CR 300 to the Philadelphia area. This project included several major crossings including two Sugar Creek and one I-70 crossing as well as three new lift stations with capacities up to 2.25 million gallons per day (MGD), several miles of sanitary main, and improvements to the existing Wastewater Treatment Plant.

REFERENCE

Alan Martin - Manager of Water/Wastewater Utilities
NineStar
amartin@ninestarconnect.com
317.323.2035

ORGANIZATIONAL CHART

OWNER
TOWN OF SPEEDWAY

CLIENT LIAISON
CARLY PETERSON
RQAW | DCCM

PRINCIPAL-IN-CHARGE &
AUTHORIZED NEGOTIATOR
LISA CASLER, PE
RQAW | DCCM

TEAM ADVISOR
SHANE SPEARS
RQAW | DCCM

SENIOR PROJECT MANAGER
AARON CROW, PE
RQAW | DCCM

TECHNICAL STAFF

WHITNEY WEIDENBENNER, PE
PROJECT ENGINEER, RQAW | DCCM

JACK REED
SENIOR CONTROLS DESIGNER, RQAW | DCCM

JEREMIAH EADS
SUPERINTENDENT/CONSTRUCTION INSPECTOR, RQAW | DCCM

JD PORTZ, PE
PROJECT ENGINEER, RQAW | DCCM

MADISON LYDY, EI
STAFF ENGINEER, RQAW | DCCM

GRETTA PRESTON
STAFF ENGINEER, RQAW | DCCM

ROBERT HUNT III
DESIGNER & CONSTRUCTION INSPECTOR, RQAW | DCCM

PAUL GLOTZBACH, PE
WATER/WASTEWATER DEPARTMENT MANAGER, UNITED CONSULTING

DANN BARRETT, PE
SENIOR PROJECT MANAGER, UNITED CONSULTING

KEY PERSONNEL

KEY PERSONNEL RESUMES

AARON CROW, PE

IN CHARGE OF THE PROJECT

SENIOR PROJECT MANAGER, RQAW | DCCM

Aaron brings a decade of experience in analysis, planning, modeling, and design services for wastewater, water, and stormwater projects. Aaron has helped many cities and towns pursue and secure OCRA and SRF funds for various wastewater and stormwater improvements to meet their long-term control plan, resolve local flooding issues, design new drinking water and wastewater treatment plants, and address phosphorous effluent limits set in their current wastewater permit. Aaron has experience with multiple software programs such as: InfoWater, PCSWMM, Storm and Sanitary Analysis, HY-8, StormCAD, HEC-RAS, HEC-HMS, and ARCGIS.

CAPACITY STATEMENT

As your Senior Project Manager, Aaron Crow is ready and available to assist the Town of Speedway. He will have the support and available resources of several RQAW staff members as well as United Consultants. This team has both the capacity and experience needed to complete your project on-time and on-budget.

KEY PROJECT EXPERIENCE:

Stormwater Separation & Long Term Control Plan Update
Alexandria, IN

Union County Water and Sewer Extension
Liberty, IN

Dugger Master Utility Study
Dugger, IN

NineStar Wastewater PER
Greenfield, IN

SR 28 Water and Sewer Utility Relocation
Elwood, IN

CARLY PETERSON

CLIENT LIAISON, RQAW | DCCM

Carly is a graduate of Ball State University where she achieved her bachelor's degree in telecommunication with a concentration in sales and promotions. Carly is driven and continually develops her knowledge to help clients meet their project goals with the best funding experience. Her interpersonal communication skills and ability to maintain relationships makes her the perfect business partner for your project.

KEY PERSONNEL RESUMES

WHITNEY WEIDENBENNER, PE

PROJECT ENGINEER, RQAW | DCCM

Whitney is a graduate of Purdue University with a civil engineering degree. Her background includes water, wastewater, stormwater projects, with a concentration in hydraulic design. She has over four years of experience including water system improvements, water treatment, and watermain replacements. Whitney has prepared preliminary engineering reports for several projects which were utilized to determine community needs.

KEY PROJECT EXPERIENCE:

NineStar Wastewater PER
Greenfield, IN

Town of Milton Master Utility Plan
Milton, IN

Drinking Water Distribution System Improvements
Wheatland, IN

Dugger Master Utility Study
Dugger, IN

Hancock County Master Water and Wastewater Utility Study
Greenfield, IN

JACK REED

SENIOR CONTROLS DESIGNER, RQAW | DCCM

Jack has over 30 years of water/wastewater industry experience with an impressive background in project engineering, business management, and computer and instrumentation/control design. He previously owned and operated a business that developed and implemented supervisory control and data acquisition (SCADA) systems and electrical installation projects for many water and wastewater treatment plants, lift stations, and booster stations, many of which Jack worked on directly. He is knowledgeable on a wide array of technologies, including SCADA systems, programmable logic controller (PLC) programming, human-machine interface (HMI) development, and AutoCAD, which he will use to successfully deliver on projects.

KEY PROJECT EXPERIENCE:

Town of Crothersville Electrical and Controls Design
Crothersville, IN

Town of Avilla Electrical and Controls Design
Avilla, IN

City of West Terre Haute WWTP Electrical and Controls Design
Terre Haute, IN

City of Mishawaka Electrical and Controls Design
Mishawaka, IN

KEY PERSONNEL RESUMES

JEREMIAH EADS

LIVES IN HENDRICKS COUNTY & IN CLOSE PROXIMITY TO WWTP

SUPERINTENDENT/CONSTRUCTION INSPECTOR, RQAW | DCCM

Jeremiah is a construction inspector and CAD designer with over 26 years of experience in the construction industry. He began his career as a construction laborer and quickly moved up to foreman supervisor. With a federal crane operator's license and traffic signal technician certification, Jeremiah offers hands-on experience with construction practices and interpreting design documents. He leverages that experience and his strong management skills to provide firm but impartial inspections. Jeremiah also pulls from his construction background to add value as a CAD Designer.

PAUL GLOTZBACH, PE

WATER/WASTEWATER MANAGER

As the Water/Wastewater Department Manager, Paul's responsibilities include overseeing all detailed planning, management, design, construction estimates, and other critical aspects of water, wastewater, and stormwater projects. Paul has led over 50 sanitary sewer, storm sewer, water main, CSO mitigation, wastewater treatment plant, water treatment plant, sewer rehabilitation, and gas relocation projects for over 30 clients. Paul's career has advanced through positions of Project Engineer, Project Manager, Senior Project Manager, and currently as the Department Manager for the Water/Wastewater Department. All with a client focused approach to successfully completing projects for significant infrastructure improvements, quality of life improvements, and state/federal permit compliance.

DANN BARRETT, PE

SENIOR PROJECT MANAGER

As a Senior Project Manager, Dann is responsible for system and component design, plan details, permitting, and other project design and coordination tasks. His project experience includes water main replacement and extensions, water treatment facility improvements, sanitary sewer improvements and extensions, lift station design, combined sewer overflow mitigation, wastewater treatment facility improvements, storm sewer replacement and extensions, civil site design, and stormwater detention facilities.

PROJECT APPROACH

RQAW will use creativity, long-term thinking, and technical understanding to deliver a valuable and feasible product for the Town of Speedway. If awarded the project, we will begin with a kickoff meeting that brings together all stakeholders, including utility representatives, operators, Town Council members, Town Manager, other Town staff, and financial advisor, as desired. The meeting will focus on determining and prioritizing the needs of this project for the Town of Speedway and discussing the project approach in further detail as a group to ensure all expectations are met or exceeded.

Building on the meetings and site visit already conducted with the Town to develop this project approach, the RQAW team will continue to collect information and work with the utility and Town personnel to evaluate the four alternatives discussed in the Request for Proposal. This information will be compiled into a preliminary engineering report (PER) to help the Town determine appropriate next steps for their Agreed Order with the Indiana Department of Environmental Management (IDEM). With the PER, RQAW will work with the Town to submit to the Indiana State Revolving Fund (SRF) and other funding sources as needed, secure funding and design the selected alternative; helping to lead the project team through construction completion and sufficient compliance with the Agreed Order.

With this project, the Town's primary focus is to establish, fund, design, and construct a solution for their Agreed Order with IDEM. The first engineering step in this process will include a PER which evaluates solutions for the combined sewer overflow issues cited in the Agreed Order. Options to be included in this PER are as follows:

OPTION 1 – 1 Million Gallon Storage Tank
OPTION 2 – 2 Million Gallon Storage Tank
OPTION 3 – Wet Weather Treatment
OPTION 4 – Utilizing Current Collection System for Wet-Weather Storage

Speedway Secondary Wastewater Clarifier

Existing Speedway UV Treatment System

PROJECT APPROACH

PROJECT PLAN

As a part of this PER, RQAW will evaluate each of the options provided. RQAW would plan to adopt a plan like the one discussed below to ensure that the provided PER thoroughly evaluates all options and the Town is provided with appropriate knowledge and insight to select the best project for them moving forward:

1. DETERMINE CAPACITY REQUIREMENTS:

RQAW will first evaluate the current wastewater treatment plant (WWTP) capacity. According to state code, the existing plant must be able to fully treat one year, one hour storm. Beyond this, the plant must be able to handle a 10-year, one hour storm without the need for an overflow event. RQAW will evaluate the existing plant and its storage to determine what the minimum expansions must be.

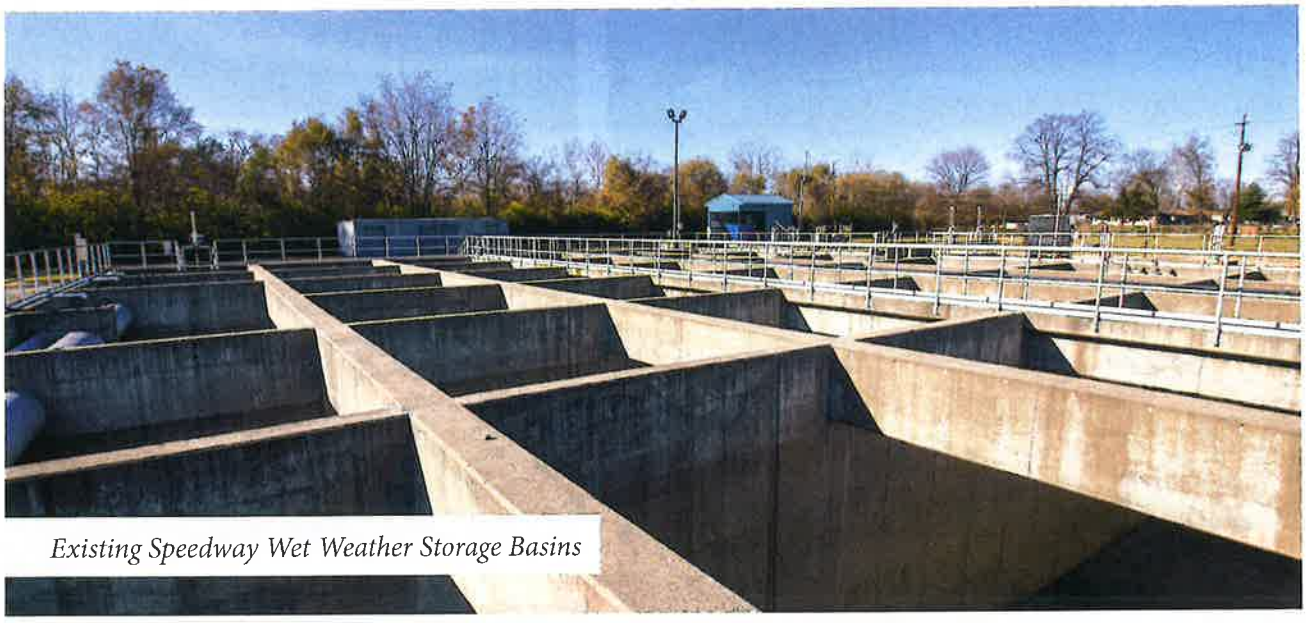
2. EVALUATE ADDITIONAL CAPACITY OPTIONS:

With the capacity requirements determined, RQAW will be able to compare each of the solution Options 1, 2, and 4 with the additional storage needed for the 10-year, one hour storm. We will evaluate the feasibility and cost of each alternative.

For Option 1, this will include an exhibit showing the land requirements for an additional one million-gallon storage tank, as well as a discussion on the benefits and downfalls of such an option and the cost associated with it. The Town owns the land currently leased to Merrell Brothers for their solar fields. If necessary, it is believed that the tank could be constructed in this area instead of requiring additional land acquisition.

For Option 2, this will include an exhibit showing the land requirements for an additional two million-gallon storage tank, as well as a discussion on the benefits and downfalls of such an option and the cost associated with it. The Town owns the land currently leased to Merrell Brothers for their solar fields. If necessary, it is believed that the tank could be constructed in this area instead of requiring additional land acquisition.

For Option 4, this will include a modeling evaluation to determine the feasibility of using the existing 72-in trunkline for storage. Modeling and site discovery will show how many homes would need their connections removed from this line, and a solution on how to properly provide continued service via low pressure sewer or parallel gravity sewer, if possible. Additionally, RQAW will evaluate the need for a self-cleaning system for the trunkline. A system similar to the tipping buckets at the Town's current wet weather storage basins (*photo below*) could be considered, though reconfigured to be installed in the sewer system instead of an open tank. Costs will be determined for such a project with a summary of benefits and downfalls.



Existing Speedway Wet Weather Storage Basins

CONTINUED >

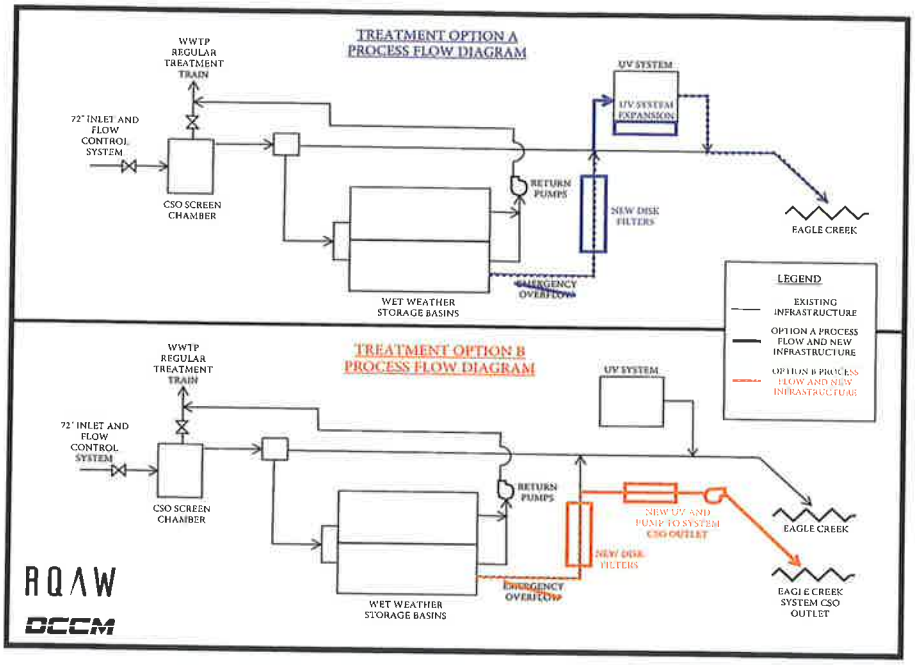
PROJECT APPROACH

3. EVALUATE TREATMENT OPTIONS:

RQAW will assess the requirements for wet weather treatment for the existing plant. Speedway would be required to filter and disinfect flow above, which could currently be treated by the existing plant during a 10-year, one hour storm. Based on discussions with IDEM, RQAW would evaluate the capacity requirements for disk filters. RQAW would also discuss the following outfall options:

A. Treated wet weather flow to be combined with existing effluent at existing effluent outfall, which would require combined effluent (including wet-weather flow) to meet all current NPDES requirements.

B. Treated wet weather flow to be filtered and disinfect separately and sent to the existing CSO outfall, where it will only be required to meet E. coli limits while maintaining monitoring for other effluent factors.



4. SELECT PREFERRED ALTERNATIVE:

RQAW will work to select a preferred alternative with the Town based on cost, existing infrastructure, existing space, future desires, and permitting requirements. The Recommended Alternative section of the PER will be updated at this time.

5. SUBMIT FOR AND SECURE FUNDING:

RQAW will work with the Town to decide on funding opportunities to pursue including the State Revolving Loan Fund (SRF).

6. DESIGN AND CONSTRUCT:

RQAW will be available to provide design, bidding, and construction administration/inspection services to bring the project to completion.

SCHEDULE

2023

DEC	Preliminary Engineering Report Preparation Begins

2024

DEC	Preliminary Engineering Report Preparation Completed

2025

JAN	Submit CSO Compliance Plan Document to IDEM for Review of Selected Project
JAN	Anticipated IDEM Approval of Selected Project
FEB	Selected Project Design Begins
APR	SRF Preliminary Engineering Report Submission Deadline
JUN	Apply for OCRA CDBG 2025 Round 1 (if desired)
JUL	SRF Project Priority Lists Released
AUG	OCRA CDBG 2025 Round 1 Grant Awards Announced (if desired)
SEP	OCRA CDBG 2025 Round 1 Grant Fully Executed (if desired)

2026

FEB	Selected Project Design Completed
APR	Bidding/Loan Closing of Selected Project Begins
MAY	Bidding/Loan Closing of Selected Project Completed
JUN	Selected Project Construction Begins

2027

FEB	OCRA CDBG Would Require Construction Completion (18 months from Award)

2028

JUN	Selected Project Construction Completed

While the Town has expressed interest in submitting to SRF for project funding, they would also be eligible for OCRA funding due to their non-entitlement status. Because the OCRA-related components need to be completed more than a year prior to the Town's desired construction completion date, RQAW would recommend breaking the project up into two divisions. The first division would include OCRA-related items and the second would be all components not included in the OCRA project.

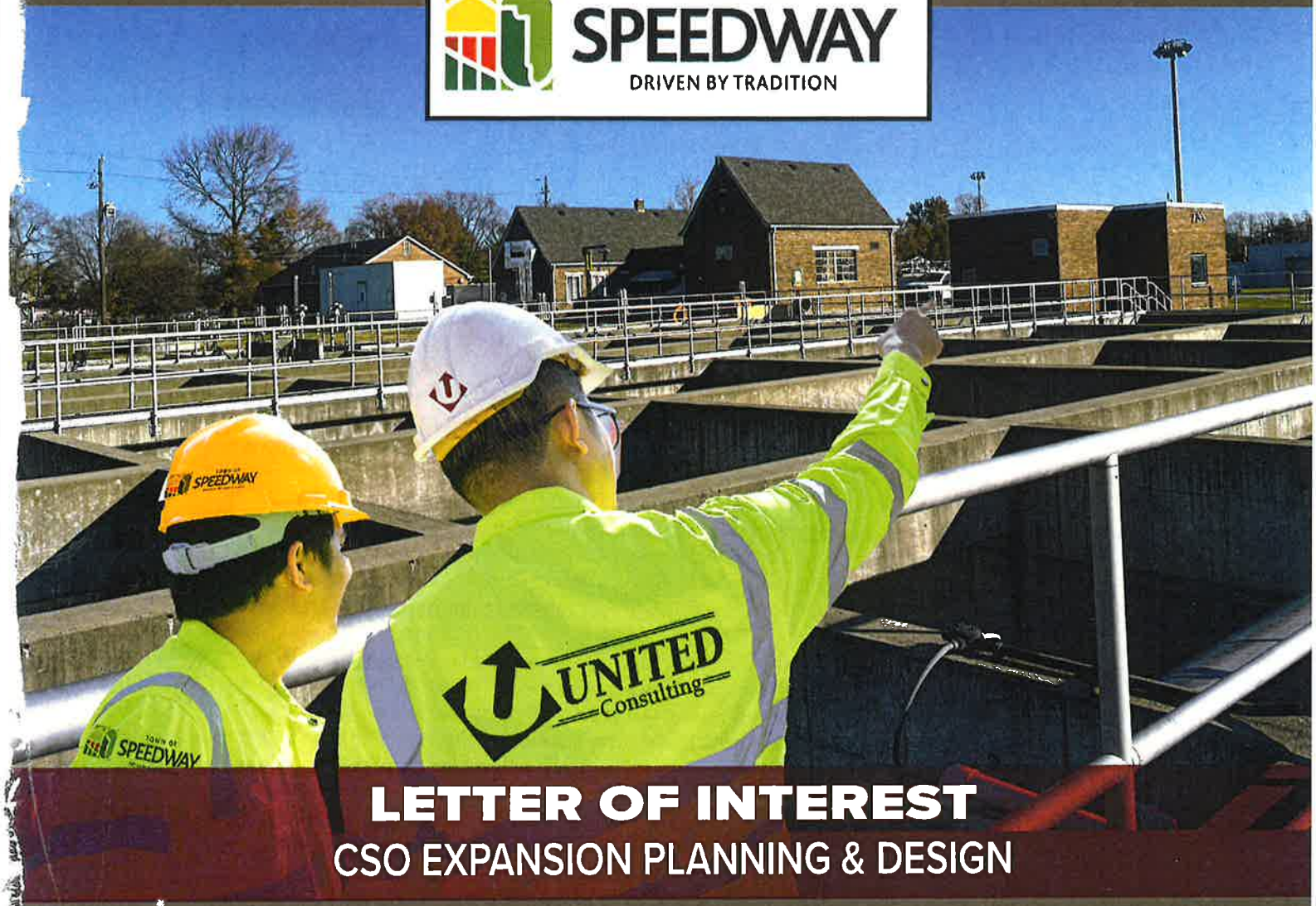
PROPOSED FEE

(ALL AMOUNTS LUMP SUM IF NOT SPECIFIED OTHERWISE):

1	**PER DEVELOPMENT** Does not include Technical and Managerial Portions of an Asset Management Plan (AMP), which will be required to be submitted to SRF at the same time as the PER. The Town has indicated that they already have an AMP.)	**$30,000**
2	**COMBINED SEWER MODEL DEVLOPMENT AND CALIBRATION**	**$20,000**
3	**DESIGN**	**$300,000** (up to $360,000)
4	**BIDDING**	**$20,000** (up to $40,000)
5	**CONSTRUCTION ADMINISTRATION**	**$50,000** (up to $75,000)
6	**CONSTRUCTION INSPECTION** (Time and Expense). Assumes full-time inspection required and two years for project completion.	**$624,000**

TOTAL	**$1,044,000** (up to $1,149,000)

TOWN OF SPEEDWAY
DRIVEN BY TRADITION



LETTER OF INTEREST

CSO EXPANSION PLANNING & DESIGN

UNITED Consulting

DUE: DECEMBER 1, 2023

December 1, 2023

Mr. Phillip Foust, Clerk-Treasurer
5300 Crawfordsville Road
Speedway, Indiana 46224

RE: CSO Expansion Planning and Design Services for the Town of Speedway

Dear Grant, Brad, and Selection Committee,

UNITED CONSULTING is pleased to present our Letter of Interest to provide professional engineering services for CSO expansion planning and design. Our team has the technical expertise and knowledge to develop a well-planned, cost effective, long-term solution for the Town's wastewater needs.

We greatly appreciate the valuable time given for the many insightful conversations, enlightening meetings, and facility tour throughout this past year. Our team now has a solid understanding of your needs and is grateful for the opportunity to work with the town of Speedway.

THREE KEY REASONS MAKE UNITED THE BEST CHOICE TO PROVIDE CONSULTING SERVICES FOR YOUR CSO EXPANSION PLANNING AND DESIGN:

- **UNITED OFFERS PROVEN EXPERIENCE.**
  We have taken great care to assemble an excellent team of professionals who will provide well-designed custom options that are cost-effective and meet IDEM standards. We have decades of experience planning, designing, and implementing wastewater improvements projects across the state of Indiana. Such relevant projects are discussed on pages 13-20 of this submittal.

- **UNITED BRINGS VALUABLE PROJECT INSIGHT.**
  Our Water, Wastewater, and Stormwater Department is knowledgeable and experienced in all facets of wastewater planning. We have assisted numerous similarly sized and situated communities such as New Castle, Cicero, and Wabash with wastewater planning needs including the development and implementation of long-term control plans as well as post construction monitoring.

- **UNITED IS COMMITTED TO THE TOWN OF SPEEDWAY'S GOALS.**
  After several in person meetings, our dedicated team of experts understands the necessity for a straightforward and cost-effective solution for CSO expansion. This is reflected in the thorough and diligent project approach you will find on pages 21-23 in this submittal.

Our Department Manager, Paul Glotzbach's past experience in the town of Speedway with a previous employer, balanced with the fresh perspective of our lead project manager, Dann Barrett, makes our team the best suited for this project.

Our principals and staff are totally committed to the success of this project and will ensure it is completed with the excellent professional service and quality you deserve.

Sincerely,
UNITED CONSULTING

Lauren Ganapini
Business Development Representative

Paul D. Glotzbach, PE
Water and Wastewater Department Manager

UNITED TEAM QUALIFICATIONS / RFP CRITERIA

PROPOSER'S ITEMIZED AND TOTAL PRICE

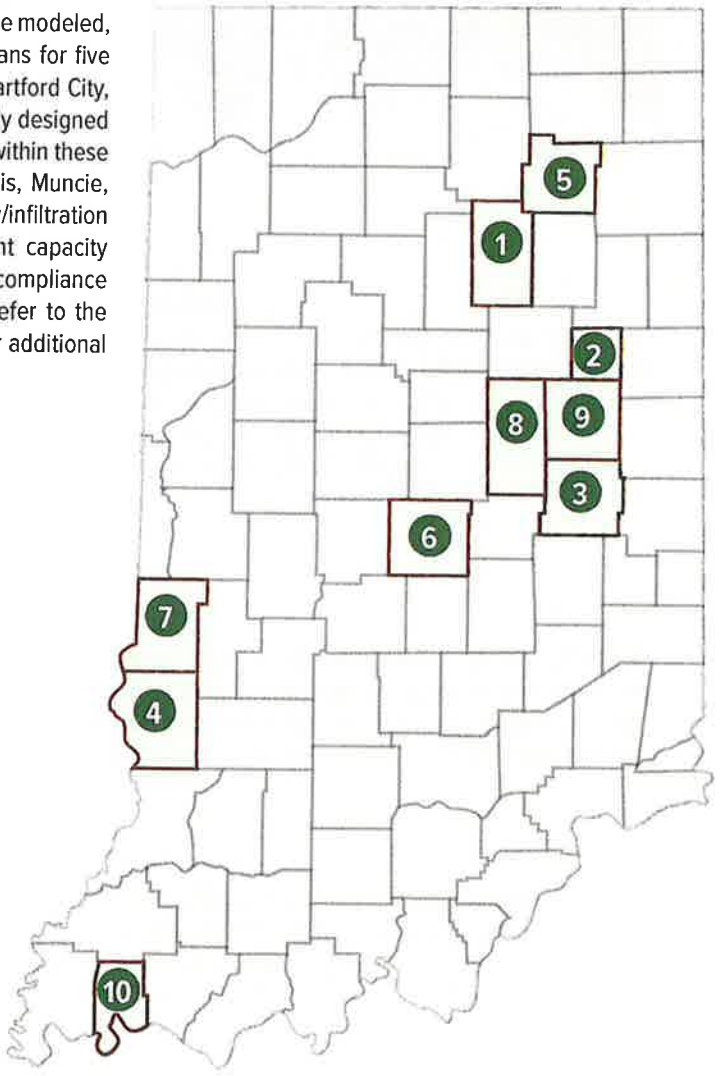
In accordance with the town of Speedway's Combined Sewer Overflow (CSO) Compliance Plan, the project will be executed in multiple phases. The planning phase will include an alternative evaluation and Preliminary Engineering Report development. The design phase will include engineering services required to deliver the selected project. Refer to pages 24-27 for additional details and pricing.

DEMONSTRATED PRIOR EXPERIENCE FOR SIMILAR PROJECTS & IDEM CSO PROJECTS

UNITED CONSULTING is well versed in all aspects of Indiana Department of Environmental Management (IDEM) Long Term Control Plans. We have modeled, developed, prepared, and implemented CSO Long Term Control Plans for five communities across the state of Indiana including Columbia City, Hartford City, New Castle, Wabash, and Sullivan. Additionally, we have successfully designed and delivered solutions to over 25 different CSO mitigation projects within these communities and others including Anderson, Evansville, Indianapolis, Muncie, and Terre Haute. Work has included sewer separation, inflow/infiltration lining and infrastructure rehabilitation, wastewater treatment plant capacity expansions, tunnel systems, and CSO storage projects to achieve compliance with Agreed Orders and Long Term Control Plan commitments. Refer to the team resumes on pages 6-12 and project profiles on pages 13-20 for additional details.

CSO Projects (General Locations Shown on State Map)

1. **Wabash:** CSO LTCP Development. Implemented multiple phases.
2. **Hartford City:** CSO LTCP Development. Implemented multiple phases.
3. **New Castle:** CSO LTCP Development. Implemented multiple phases.
4. **Sullivan:** CSO LTCP Completed CSO project.
5. **Columbia City:** CSO LTCP Development. Completed CSO project.
6. **City of Indianapolis (Citizens Energy Group):** DigIndy Tunnel System.
   - Completed multiple CSO projects.
     - Fall Creek/White River (Near Surface Consolidation Sewers)
     - Pleasant Run (Near Surface Consolidation Sewers)
     - Eagle Creek CSO Abatement Project
7. **Terre Haute:** Completed multiple CSO projects
8. **Anderson:** Completed CSO project (013 Outfall)
9. **Muncie:** Overall construction administration for CSO LTCP implementation.
   - Completed multiple CSO projects.
10. **Evansville:** Assisted with Sewer Systems Assessment (SSA), Sanitary Sewers Remedial Measures Plan (SSRMP), and Integrated Overflow Control Plan (IOCP)



NUMBER OF YEARS IN BUSINESS

UNITED CONSULTING has been in business for the past 58 years. We began with four people in 1965 and have since grown to a staff of over 100 people.

REFERENCES

References and contact information are included with each project profile on pages 13-20.

UNITED TEAM QUALIFICATIONS / RFP CRITERIA

DESIGN TEAM AND SUBCONSULTANTS

Refer to the proposed project team organization chart on page 5 and resumes included on pages 6-12. Our team brings decades of experience, technical excellence, and a proven track record of delivering successful projects. Subconsultants on the project include RQAW Corporation for mechanical, electrical, and plumbing design services and CTL Engineering, Inc. for geotechnical services.

CAPABILITY TO PROVIDE RESPONSIVE PROFESSIONAL SERVICES

At **UNITED CONSULTING**, we pride ourselves on our commitment to delivering responsive and professional services to our clients. A dedicated project manager will be assigned to manage the design team, proactively coordinate all aspects of the work, and serve as the primary point of contact for the Town. We prioritize timely and effective communication realizing that our responsiveness contributes to building strong, trusting relationships and successful projects. As a company, **UNITED CONSULTING** is a full-service engineering firm with the resources to support these efforts to complete projects from start to finish through our staff of professional engineers, planners, environmental specialists, utility coordinators, construction inspectors, right-of-way specialists, technicians, surveyors, and associates.

HISTORY OF MEETING DEADLINES

Providing quality service on time every time is a cornerstone of **UNITED CONSULTING'S** operational philosophy, and we recognize the paramount importance of this aspect in ensuring successful project outcomes and nurturing enduring client relationships. Timely project delivery not only reflects our dedication to professionalism, but also instills confidence in our clients, showcasing our reliability and accountability. We have experience navigating IDEM Agreed Orders and understand that missed deadlines can have far reaching consequences, impacting project timelines, budgets, enforcement actions, and client trust.

CONFLICT RESOLUTION PERFORMANCE

Effective conflict resolution is a key component of **UNITED CONSULTING'S** commitment to maintaining strong and enduring relationships. We approach conflict resolution with a proactive mindset, emphasizing open communication and a solution-oriented approach. Our team is trained to identify potential conflicts early on, addressing them transparently and constructively to prevent escalation. When conflicts do arise, we prioritize understanding our client's concerns, working collaboratively to find mutually beneficial solutions. By fostering a culture of open communication, responsiveness, and teamwork we ensure that conflicts are addressed promptly and professionally, minimizing any potential disruptions to the project timeline or client satisfaction.

SAFETY RECORD

Safety for our employees is a prime concern at **UNITED CONSULTING**. We believe in a strong safety program to create safe working conditions for all employees. Safety is everyone's responsibility. Based on **UNITED'S** historical Experience Modification Ratings (EMR), we typically score at or below industry average for workers' compensation claims.

UNITED OVERVIEW / BRIEF DESCRIPTION OF FIRM

UNITED CONSULTING • 8440 Allison Pointe Blvd
Suite 200 • Indianapolis, IN 46250
Office Phone: 317.895.2585

All services for the project will be provided from our corporate office located at the address above.

"Our clients' satisfaction is our highest goal." - Principals of UNITED CONSULTING

Michael Rowe, PE
President

Steve Jones
Senior Vice President

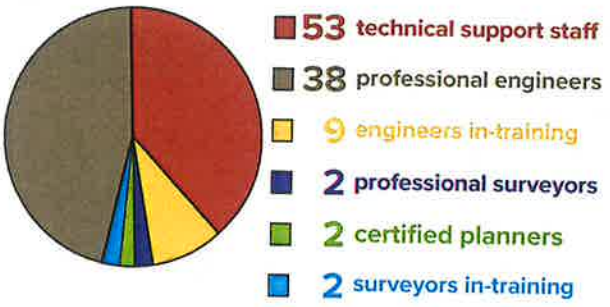
Chris Pope, PE
Senior Vice President

Keith Bryant, PE
Senior Vice President

Paul Glotzbach, PE
Vice President

Jon Clodfelter, PE
Vice President

UNITED Employees Available In-House Capacity



UNITED / CAPACITY

UNITED CONSULTING is an Indiana owned, full service engineering design company, which was established in 1965. Our staff includes professional engineers, planners, environmental specialists, utility coordinators, construction inspectors, right-of-way specialists, technicians, surveyors, and associates. As a result, our firm is in a position to provide the entire range of professional services to carry infrastructure and building projects from conceptual development through construction.

UNITED employs 106 Indiana Engineers and other design professionals. We are well-equipped to deliver the project within the required timeline.

Over the past 58 years, UNITED has fostered solid working relationships with industry firms who share our philosophy of providing high quality projects and excellent service. These valuable resources allow us to supplement our team capacity as needed for any given project. UNITED'S in-house expertise will provide most of the resources necessary for this project.

UNITED'S ASSIGNED TEAM

UNITED maintains an in-house bank of resources to accomodate all facets of our clients' projects from concept through completion. In addition to these valuable resources, we have also established meaningful relationships to supplement our in-house resources with reputable industry businesses who share **UNITED'S** basic philosophy of delivering exceptional projects through **Quality Services On Time — Every Time.**

To fulfill the needs of this project, we will dedicate a core group of individuals who will be responsible for completion of the daily tasks needed to keep the project moving forward while staying on budget and maintaining compliance with schedule expectations.

UNITED's Assigned Core Team

ENGINEERING DIRECTOR

KEITH BRYANT, PE

Corporate
Senior Vice President

PRINCIPAL CONTACT

CHRIS POPE

Corporate
Senior Vice President

PROJECT OVERSIGHT

PAUL GLOTZBACH, PE

Water & Wastewater
Department Manager

PROJECT MANAGER

TROY CASEY, PE

Water & Wastewater
Department

PROJECT LIAISON

LAUREN GANAPINI

Business
Development
Representative

SENIOR PROJECT MANAGER

DANN BARRETT, PE

Water & Wastewater
Department

POJECT ENGINEER

JOY BOSSE, PE

Water & Wastewater
Department

Subconsultants

GTL ENGINEERING INC

RQAW

DCCM

RESUMES OF KEY PERSONNEL TO BE ASSIGNED TO THIS PROJECT

ENGINEERING DIRECTOR — 33+ YEARS OF EXPERIENCE

UNITED Consulting

KEITH BRYANT, PE

CORPORATE SENIOR VICE PRESIDENT

EDUCATION

Purdue University

- BS Construction Engineering (1989)
- Graduate Civil Engineering Courses

CERTIFICATIONS

Professional Engineer

- STATE OF INDIANA NO. 19800081
- STATE OF OHIO NO. 68631
- STATE OF ILLINOIS NO. 062-053071

AFFILIATIONS

- American Water Works Association (AWWA & IWWA)
- Indiana Water Environment Association (IWEA)
- Water Environment Federation (WEF)

As Principal-in-Charge, Keith has the authority to negotiate and enter into a binding contractual agreement on behalf of UNITED CONSULTING for all water, wastewater, and stormwater projects.

His responsibilities as Engineering Director include management, planning, design, client coordination, for the Water and Wastewater Department and Construction Inspection Department.

RELEVANT PROJECT EXPERIENCE

EVANSVILLE WATER & SEWER UTILITY EASTVIEW TERRACE DRAINAGE IMPROVEMENTS PROJECT, CITY OF EVANSVILLE

Project Oversight: Responsible for $6,000,000 drainage improvements project including approximately 6,500 linear-feet of new storm pipe ranging from 48-inch to 96-inch diameter with appurtenances, watermain relocation, and coordination with Evansville-Vanderburgh Levee Authority District for construction of new outfall structure at the EVLAD/USACE K-3 basin and lift station.

CITY OF WABASH WASTEWATER TREATMENT PLANT

Project Manager / Engineer: Project management and engineering for a new 10.0 MGD extended air oxidation ditch treatment plant.

SULLIVAN WASTEWATER TREATMENT PLANT

Project Manager / Design Engineer: Project includes a new extended-air wastewater treatment plant with a design capacity of 2.1 MGD and a project cost of $7,000,000.

CITY OF TERRE HAUTE WASTEWATER TREATMENT PLANT

Project Manager/ Engineer: Managed and designed various plant projects including digester and aeration improvements and the anoxic, aeration, recycle pump station, secondary clarifier improvements of the current $115 M plant expansion project.

CITY OF BLOOMINGTON DILLMAN ROAD WASTEWATER TREATMENT PLANT EQUALIZATION BASIN REHABILITATION PROJECT

Project Engineer: Project involved evaluating existing conditions and engineering plans and specifications for rehabilitation of the equalization basin, including concrete repair, joint replacement, subgrade reestablishment, with approximately 280,000 square feet of geotextile and liner installation. The total project construction cost was approximately $1,400,000.

CSO LONG TERM CONTROL PLANS

Project Manager / Engineer: Project included combined sewer overflow long term control plan preparation and implementation projects for many communities including the City of Sullivan, Wabash, Hartford City, Columbia City, and New Castle. These evaluations included each City's sanitary, combination, and storm sewer systems.

COLUMBIA CITY – PHASE IIB CSO MITIGATION PROJECT

Project Manager / Oversight: Responsible for overall management and design oversight for a CSO Mitigation Project that included construction of three CSO storage basins and large diameter interceptors to provide below grade storage to accommodate the 10-year/1-hour storm event.

U.S. 41 STORMWATER LIFT STATION AND FORCEMAIN IMPROVEMENTS - INDOT

Project Oversight / Structural Engineer: Responsible for design of 40 MGD storm pump station and 700 feet of 48-inch force main with discharge to the Little Calumet River as part of U.S. 41 Phase 1A Road Reconstruction Project in Lake County, IN. The lift station included triplex submersible centrifugal pumps, dewatering pump, VFD controls, bar screen, control building, equipment hoist system, and backup generator. The force main required a USACE regulated earthen levee penetration with cast-in-place concrete gatewell structure, sluice gate, force main discharge with flap gate above the USACE established flood elevation, energy dissipation, and gravity outfall channel.

■ RESUMES OF KEY PERSONNEL TO BE ASSIGNED TO THIS PROJECT

WATER/WASTEWATER DEPARTMENT MANAGER — ✓26+ YEARS OF EXPERIENCE

UNITED Consulting

PAUL GLOTZBACH, PE

CORPORATE VICE PRESIDENT

EDUCATION

■ Purdue University

- BS Civil Engineering (1996)

CERTIFICATIONS

■ Professional Engineer

- STATE OF INDIANA NO. 10100222
- COMMON WEALTH OF KENTUCKY, NO. 29622

AFFILIATIONS

- Indiana Water Environment Association (IWEA)
- Water Environment Federation (WEF)
- American Water Works Association (AWWA)

As the Department Manager, Paul's responsibilities include overseeing all of the detailed planning, management design, construction estimates, and other critical aspects of water, wastewater, and stormwater projects.

Paul has led over 50 sanitary sewer, storm sewer, water main, CSO mitigation, wastewater treatment plant, water treatment plant, sewer rehabilitation, and gas relocation projects for over 30 clients.

His career has advanced through positions of Project Engineer, Project Manager, Senior Project Manager, and currently as the Department Manager for the Water/Wastewater Department. In all of his project roles, Paul has provided and continues to promote a client focused approach to successfully completing projects for significant infrastructure improvements, quality of life improvements, and state/federal permit compliance.

RELEVANT PROJECT EXPERIENCE

CASTLETON RELIEF SEWER PROJECT, CITIZENS ENERGY GROUP

Project Manager/Design Engineer: Responsible for the 14,000 feet of 36-inch and 42-inch relief sewer in the Castleton area to provide additional capacity for current wet-weather flows and future build-out conditions. The project included approximately 3,100 feet of 42-inch pipe installed by the microtunneling method.

LOST CREEK LIFT STATION PROJECT, CITY OF TERRE HAUTE

Project Manager/Design Engineer: Responsible for the new 22 MGD lift station with mechanical screening. Responsibilities included design, bid assistance, construction administration, commissioning of new facilities, and demolition of existing lift station.

SWIFT INTERCEPTOR RELIEF SEWER, CITY OF FORT WAYNE

Project Manager: Responsible for design of 6,300 feet of 30-inch sanitary sewer to provide additional capacity for current wet-weather flows and future build-out conditions in the area currently served by the Swift Interceptor. The project included a 48-inch jack and bore steel casing crossing of I-69.

WEST MARION COUNTY SANITARY MASTER PLAN, CITY OF INDIANAPOLIS DEPARTMENT OF PUBLIC WORKS (IDPW)

Project Engineer (Previous Employer): Responsible for the preparation of a Master Plan to address the long-term sanitary interceptor sewer needs for the 150-square mile, western portion of Marion County. The project involved an evaluation of current conditions, identification of unsewered/undeveloped areas, future wastewater flow projections, evaluation of alternatives to handle future wastewater flows, and preparation of a Master Plan.

CITIZENS ENERGY GROUP – EAGLE CREEK CSO ABATEMENT PROJECT, INDIANAPOLIS, IN

Project Manager: Responsible for design of consolidation sewers, diversion structures, a screen/gate structure and related improvements to provide conveyance of wet-weather flow to the Eagle Creek Tunnel/ Deep Rock Tunnel Connector and reducing CSO volumes to four CSOs discharging to Eagle Creek. The project included 2,800 feet of 48-inch sewer, cast-in-place diversion and screen/gate structures, power building, connection to 250-foot deep drop shaft, and water main relocation.

CSO 009/010 CONSOLIDATION PROJECT, CITY OF TERRE HAUTE.

Project Manager: Responsible for the design of approximately 400 feet of 66-inch sanitary sewer and three large precast sanitary sewer structures to consolidate combined sewers as part of the City's CSO LTCP.

MUNCIE SANITARY DISTRICT – 2016 BOND/2017 BAN PROJECTS

Project Manager: Responsible for construction administration of $76 million project to address CSO Long Term Control Plan requirements and other improvements. The Guaranteed Savings Performance Contract included construction of more than 50 separate projects involving 13 design engineers with additional projects designed, permitted, and constructed as savings was achieved.

CITY OF VINCENNES WASTEWATER TREATMENT FACILITY IMPROVEMENTS (WWTF)

Project Engineer: Construction of WWTF improvements for the City of Vincennes. The improvements included a new headworks, primary clarifiers, aeration tanks, secondary clarifiers, RAS pumps, UV, sludge processing, sanitary lift station, and administration building. The treatment capacity increased to 22 MGD.

■ RESUMES OF KEY PERSONNEL TO BE ASSIGNED TO THIS PROJECT

WATER/WASTEWATER DEPARTMENT ✓16+ YEARS OF EXPERIENCE

UNITED Consulting

DANN BARRETT, PE

SENIOR PROJECT MANAGER

EDUCATION

■ **Purdue University**

- BS Civil Engineering (2006)

CERTIFICATIONS

■ **Professional Engineer**

- STATE OF INDIANA NO. 11100320

AFFILIATIONS

- American Society of Civil Engineers (ASCE)
- Indiana Water Environment Association (IWEA)
- Water Environment Federation (WEF)

As a Senior Project Manager, Dann is responsible for system and component design, plan details, permitting, and other project design and coordination tasks.

Dann's experience includes planning, design, and construction phases of numerous water, wastewater and stormwater projects for municipalities and utilities throughout the State.

He has successfully worked on a wide variety of projects including water main replacement and extensions, water treatment facility improvements, sanitary sewer improvements and extensions, lift station design, combined sewer overflow mitigation, wastewater treatment facility improvements, storm sewer replacement and extensions, civil site design, and stormwater detention facilities.

RELEVANT PROJECT EXPERIENCE

WABASH, INDIANA – WWTP HEADWORKS PROJECT

Project Engineer: Responsible for design, bidding and construction administration for a headworks project at the Wabash WWTP that included pumping and screening upgrades at a headworks facility with 30 MGD capacity. The existing headworks structure was reconfigured following the removal of two screw pumps with the addition of parallel fine mechanical screens, dual washer compactors, four submersible pumps, slide gates, a trolley hoist assembly and headworks screening building.

CICERO, INDIANA – WWTP EXPANSION PROJECT

Project Manager: Responsible for design and permitting for a wastewater treatment plant expansion project to double the plant capacity from 0.75 MGD to 1.5 MGD, address an IDEM agreed order for wet weather bypasses, and to increase biological loading capacity of the facility to maintain high-quality effluent to Morse Reservoir. Work included design of mechanical fine screening upgrades, a new headworks lift station, oxidation ditch, clarifier flow splitter, clarifier, UV improvements, aerobic digester, sludge dewatering screw press, dewatered sludge storage area, and vac dump station, along with buildings, site improvements, existing facility upgrades and a SCADA monitoring system.

SULLIVAN, INDIANA – LAGOON #4 ABANDONMENT PROJECT

Project Manager: Responsible for design, bidding, and construction administration for abandonment of Lagoon #4 in the City's collection system as required by an IDEM Agreed Order. Work included a 1,000 gpm lift station and 4,400 LF of force main to reroute sewer flows, physical disconnection of the lagoon, and demolition of lagoon control structures.

CITIZENS ENERGY GROUP - FALL CREEK / WHITE RIVER TUNNEL PROJECT

Project Engineer: Responsible for the design of consolidation sewers in the project with an estimated construction cost of $8,000,000 including sewers ranging from 24-inch to 144-inch diameter.

CITIZENS ENERGY GROUP - PLEASANT RUN TUNNEL PROJECT

Project Engineer: Responsible for design of consolidation sewers in the project with an estimated construction cost of $12,000,000 including sewers ranging from 18-inch to 78-inch diameter along with multiple relief structures, diversion structures, and screen and gate structures.

WABASH, INDIANA – PHASE 2, PHASE 3, AND PHASE 4 CSO MITIGATION PROJECTS

Project Engineer / Manager: Responsible for design, permitting and management for the Phase 2, Phase 3, and Phase 4 projects to mitigate Combined Sewer Overflows including new storm sewers, sanitary sewers, and existing infrastructure rehabilitation. The three projects improved the infrastructure in various parts of the City and had a combined construction cost of approximately $12,000,000.

NEW CASTLE, INDIANA – PHASE 3 AND PHASE 4 CSO MITIGATION PROJECTS

Project Manager: Responsible for design, permitting and management for the two projects for mitigation of the Combined Sewer Overflows including new storm sewers and sanitary sewer systems. The two projects improved the infrastructure in various parts of the City and had a combined construction cost of approximately $15,700,000.

SEYMOUR, INDIANA – US 50/SOUTHEAST SANITARY SEWER IMPROVEMENTS PROJECT

Project Engineer: Responsible for design and construction of over 18,000 LF of 8-inch to 36-inch gravity sewer, 16,000 LF of 20-inch force main, and a triplex cast-in-place lift station. Sewer installation was primarily completed using open cut techniques which included six creek crossings that were restored with bioengineering bank stabilization methods. There were five trenchless installations on the project including two railroad crossings and two INDOT crossings. Seven lift stations were eliminated with this project and consolidated to a single regional lift station. Regional lift station construction included a control building, stationary generator and SCADA connectivity to the WWTP.

■ RESUMES OF KEY PERSONNEL TO BE ASSIGNED TO THIS PROJECT

WATER/WASTEWATER DEPARTMENT | ✓12+ YEARS OF EXPERIENCE

UNITED Consulting

TROY
CASEY, PE

PROJECT MANAGER

EDUCATION

■ **Purdue University**
- BS Civil Engineering (2011)

CERTIFICATIONS

■ **Professional Engineer**
- STATE OF INDIANA NO. 11800761

AFFILIATIONS

- Indiana Water Environment Association (IWEA)
- American Waterworks Association (AWWA)
- Water Environment Federation (WEF)

As a Project Manager, Troy is responsible for system and component design, plan details, permitting, and other project design and coordination tasks.

RELEVANT PROJECT EXPERIENCE

NOBLESVILLE, INDIANA – WASTEWATER TREATMENT PLANT PHOSPHORUS UPGRADE

Design Engineer (Previous Employer): Assisted with the design for biological phosphorus treatment upgrades at the WWTP including retrofitting existing aeration tanks, blower system upgrades, chemical phosphorus treatment backup system, and chemical monitoring.

CICERO, INDIANA – WASTEWATER TREATMENT PLANT IMPROVEMENTS

Project Engineer: Assisted with design and permitting for a WWTP expansion project to double the plant's capacity from 0.75 MGD to 1.5 MGD, address an IDEM agreed order for wet weather bypasses, and to increase biological loading capacity of the facility to maintain high-quality effluent to Morse Reservoir. Work included design of mechanical fine screening upgrades, a new headworks lift station, oxidation ditch, clarifier flow splitter, clarifier, UV improvements, aerobic digester, sludge dewatering screw press, dewatered sludge storage area, and vac dump station, along with buildings, site improvements, existing facility upgrades and a SCADA monitoring system.

WABASH, INDIANA – LTCP CSO MITIGATION PHASE 4

Project Engineer: Responsible for design, permitting and management for the Phase 4 project to mitigate Combined Sewer Overflows including new storm sewers, sanitary sewers, and existing infrastructure rehabilitation.

VINCENNES, INDIANA – FORBES ROAD STORMWATER IMPROVEMENTS

Project Engineer (Previous Employer): Responsible for modeling and design of storm sewer improvements and preparation of report and design documents for proposed improvements to address flooding caused by inadequate drainage within the basin.

WEST CENTRAL CONSERVANCY DISTRICT – WHITE LICK CREEK INTERCEPTOR EXTENSION

Project Engineer (Previous Employer): Responsible for the design and permitting of an 18-inch sanitary sewer interceptor extension to serve future development as part of the district's master plan.

SOUTH BEND, INDIANA – CSO LTCP REEVALUATION

Design Engineer (Previous Employer): Responsible for the design of CSO pretreatment and analysis of alternatives to reduce or eliminate CSOs throughout the city as part of South Bend's EPA Consent Decree. Additional responsibilities included sewer mapping (GIS), LTCP review, and cost estimates for alternatives.

EVANSVILLE, INDIANA – ADVANCE FACILITY PLANNING – BEE SLOUGH

Design Engineer (Previous Employer): Responsible for analysis of the Evansville Eastside Wastewater Treatment Plant and preliminary design to expand capacity of the WWTP to 40 MGD. Additionally assisted with the design of disinfection process improvements.

RESUMES OF KEY PERSONNEL TO BE ASSIGNED TO THIS PROJECT

WATER/WASTEWATER DEPARTMENT ✓ 6+ YEARS OF EXPERIENCE

UNITED Consulting

JOY BOSSE, PE

PROJECT ENGINEER

EDUCATION

- **Rose Hulman Institute of Technology**
  - BS Civil Engineering (2017)

CERTIFICATIONS

- **Professional Engineer**
  - STATE OF INDIANA NO. 12100854

AFFILIATIONS

- Indiana Water Environment Association (IWEA)

As a Project Engineer, Joy's duties include planning, design, permitting, and construction administration for water and wastewater projects in the state of Indiana. Specific duties include preparation of planning reports, detailed design calculations, development of construction cost estimates, preparation of plans and specification, construction contract preparation, construction administration, and construction testing.

RELEVANT PROJECT EXPERIENCE

PITTSBORO, INDIANA - WATER TREATMENT PLANT

Design Engineer (Previous Employer): Prepared report to obtain funding for project and assisted with the design of a new 1 MGD gravity filtration water treatment plant, two wells and a 1-mile 16-inch water main extension to connect to the existing distribution system. Managed construction administration tasks and prepared Asset Management Plan for the water utility.

HARTFORD CITY, INDIANA – WTP IMPROVEMENTS AND ELEVATED STORAGE TANK IMPROVEMENTS

Project Engineer: Responsible for design, bidding and construction administration for a water treatment plant improvements project at the Hartford City WTP that included replacement of the horizontal pressure filters, aerators, plant piping, meters, and electrical equipment. The improvements to the elevated storage tanks included recoating and replacement of ladder equipment, manways, and flap gates.

ALEXANDRIA, INDIANA – WASTEWATER TREATMENT PLANT IMPROVEMENTS

Design Engineer (Previous Employer): Responsible for design, bidding, and construction administration for phosphorus removal facility and miscellaneous improvements to existing clarifiers.

LAKE COUNTY, INDIANA – LITTLE CALUMET RIVER BASIN DEVELOPMENT COMMISSION FLOOD CONTROL GATEWELL STRUCTURE REPLACEMENT

Project Engineer: Responsible for design of gatewell structures and associated 24" storm sewer. Prepared construction documents and permitting through United States Army Corps of Engineers.

AVON, INDIANA (WEST CENTRAL CONSERVANCY DISTRICT) – INDUSTRIAL PARK LIFT STATION

Design Engineer (Previous Employer): Assisted with design of 8" and 12" sanitary sewer and lift station to serve new industrial park. Prepared construction documents and permitting and assisted with bidding.

LAPEL, INDIANA – MASTER UTILITY STUDY

Design Engineer (Previous Employer): Responsible for preparation of utility studies for water main and sanitary sewer utilities to apply for project funding. These studies included evaluation of the existing infrastructure and coordination with the utilities to determine the necessary improvements and construction costs.

GREENFIELD, INDIANA – NINESTAR CONNECT RURAL DEVELOPMENT WASTEWATER PER

Project Engineer (Previous Employer): Responsible for preparation of preliminary engineering report to obtain funding from Rural Development. This PER included evaluation of several alternatives with construction costs and a recommended approach.

RESUMES OF SUBCONSULTANT KEY PERSONNEL TO BE ASSIGNED TO THIS PROJECT

CTL ENGINEERING

ANTHONY
MASON, PE

SENIOR GEOTECHNIAL ENGINEER

EDUCATION
- **University of Louisville**
  - MS Geotechnical Engineering
  - BS Civil Engineering

CERTIFICATIONS
- **Professional Engineer**
  - INDIANA and KENTUCKY

AFFILIATIONS
- Member of American Society of Civil Engineers (ASCE)
- Member of ASCE Geotechnical Group - Indianapolis

Anthony has more than twelve years of geotechnical engineering experience and serves as a Senior Geotechnical Project Engineer in CTL's Indianapolis, Indiana office. His responsibilities include project site visits, soil and rock classification, assisting drilling crews and laboratory technicians, test boring log preparation, geotechnical engineering analyses, foundation recommendations, geotechnical analyses, and geotechnical report preparation.

Additional duties include; attending construction meetings, reporting and technical assistance for both clients and field technicians in the areas of soil testing for the following types of projects: roadways and bridges; reinforced and non-reinforced earth embankments, earth retaining systems, airports, above and below ground water storage tanks, water and wastewater treatment facilities, and other various infrastructure related projects.

Anthony has worked on many projects including; roads and bridges, storm and sanitary sewers, CSO's, lift stations, pump stations, water and wastewater treatment plants, tunnels, buildings and runways and taxiways. He has worked on INDOT and LPA projects using LRFD design and he has experience in testing and evaluation of construction materials including soils, concrete, and asphalt.

RELEVANT PROJECT EXPERIENCE

WATER/WASTEWATER TREATMENT PLANTS, LEVEES, DAMS,SEWER LINES AND WATER TANKS

- West WWTP Expansion, Evansville, Indiana
- East WWTP Expansion, Evansville, Indiana
- New Water Treatment Facility, Evansville, Indiana
- Trinity Stormwater Park, Evansville, Indiana
- New White River Rock Ramp, Indianapolis, Indiana
- Nucor Road WWTP Expansion, Montgomery County, IN
- New 1m Water Storage Tank, Westfield, Indiana
- New Large Diameter Interceptor PHI and II, Anderson, Indiana
- Wansford LS, FM and Watermain, Evansville, IN
- 1m Gal Elevated Water Tank Fishers, Indiana
- Phase II Water System Improvements, Lawrence, Indiana
- Oak-Cruse Sanitary Sewer, Zionsville, Indiana

CTL ENGINEERING

SHAWN
MARCUM, PE

SENIOR GEOTECHNIAL ENGINEER

EDUCATION
- **Purdue University**
  - MS Geotechnical Engineering
  - BS Civil Engineering

CERTIFICATIONS
- **Professional Engineer**
  - INDIANA

AFFILIATIONS
- Member of American Society of Civil Engineers (ASCE)
- Member of ASCE Geotechnical Group - Indianapolis

Shawn has more than 23 years of geotechnical engineering experience and serves as a Senior Geotechnical Engineer in CTL's Indianapolis, Indiana office. His responsibilities include project site visits, soil and rock classification, assisting drilling crews and laboratory technicians, test boring log preparation, geotechnical engineering analyses and foundation recommendations, invoicing and other office requirements.

Additional duties include conducting presentations, attending construction meetings, reporting and technical assistance for both clients and field technicians in the areas of soil, concrete and asphalt testing for the following types of projects: roadways and bridges; reinforced and non-reinforced earth embankments, earthen levees and earth retaining systems, airports, above and below ground water storage tanks, water and wastewater treatment facilities.

Shawn has worked on many projects including; roads and bridges, storm and sanitary sewers, CSO's, lift stations, pump stations, interceptors, water and wastewater treatment plants, tunnels, levees, dams, buildings and runways and taxiways. He has worked on INDOT and LPA projects using LRFD design and he has experience in testing and evaluation of construction materials including soils, concrete, and asphalt.

RELEVANT PROJECT EXPERIENCE

WATER/WASTEWATER TREATMENT PLANTS, LEVEES, DAMS, SEWER LINES AND WATER TANKS

- Westfield WWTP Expansion, Westfield, Indiana
- North WTP Expansion, Indianapolis, Indiana
- New White River Rock Ramp, Indianapolis, Indiana
- New White River Intake Structure, Indianapolis, Indiana
- New Cumberland Booster Station, Indianapolis, Indiana
- Riverside Dam Evaluations, Indianapolis, Indiana
- Cooper Road Booster Station and Storage Tank, Indianapolis, Indiana
- IU Health Utility Corridor Relocation, Indianapolis, Indiana
- New 1.0mg Water Storage Tank, Westfield, Indiana

RESUMES OF SUBCONSULTANT KEY PERSONNEL TO BE ASSIGNED TO THIS PROJECT

RQAW
DCCM

AARON CROW, PE

SENIOR PROJECT MANAGER

EDUCATION

- **Purdue University**
  - BS Environmental and Eological Engineering

CERTIFICATIONS

- **Professional Engineer**
  - STATE OF INDIANA NO. 11800762
  - STATE OF OHIO NO. 88919

Aaron brings a decade of experience in analysis, planning, modeling, and design services for wastewater, water, and stormwater projects. Aaron has helped many cities and towns pursue and secure OCRA and SRF funds for various wastewater and stormwater improvements to meet their long-term control plan, resolve local flooding issues, design new drinking water and wastewater treatment plants, and address phosphorous effluent limits set in their current wastewater permit. Aaron has experience with multiple software programs such as: InfoWater, PCSWMM, Storm and Sanitary Analysis, HY-8, StormCAD, HEC-RAS, HEC-HMS, and ARCGIS.

RELEVANT PROJECT EXPERIENCE

- **Water/Wastewater Design** - *Alexandria, IN*
- **Water/Wastewater Design** - *Wheatland, IN*
- **Master Utility Plan** - *Milton, IN*
- **Master Utility Study** - *Dugger, IN*
- **Water and Sewer Extension** - *Liberty, IN*
- **Drinking Water Systems Improvements** - *North Salem, IN*
- **NineStar Wastewater PER** - *Greenfield, IN*
- **SR 28 Water and Sewer Utility Relocation** - *Elwood, IN*

RQAW
DCCM

JACK REED

SENIOR CONTROLS DESIGNER

EDUCATION

- BS Electrical Engineering Technology

Jack has over 30 years of water/wastewater industry experience with an impressive background in project engineering, business management, and computer and instrumentation/control design. He previously owned and operated a business that developed and implemented supervisory control and data acquisition (SCADA) systems and electrical installation projects for many water and wastewater treatment plants, lift stations, and booster stations, many of which Jack worked on directly. He is knowledgeable on a wide array of technologies, including SCADA systems, programmable logic controller (PLC) programming, human-machine interface (HMI) development, and AutoCAD, which he will use to successfully deliver on projects

RELEVANT PROJECT EXPERIENCE

- **Town of Crothersville Electrical and Controls Design** - *Crothersville, IN*
- **Town of Avilla Electrical and Controls Design** - *Avilla, IN*
- **City of West Terre Haute WWTP Electrical and Controls Design** - *Terre Haute, IN*
- **City of Mishawaka Electrical and Controls Design** - *Mishawaka, IN*

RELEVANT UNITED CONSULTING PROJECTS

WABASH CSO LONG TERM CONTROL PLAN

PROJECT TYPE
Sanitary and Storm Sewer Separation, CIPP Rehabilitation

LOCATION
Wabash, Indiana

OWNER
City of Wabash

OWNER CONTACT
Bob Gray
Wastewater Superintendent
Phone: 260-563-2941

ENGINEER/KEY PERSONNEL
UNITED CONSULTING
Keith Bryant, PE
Dann Barrett, PE

CITY OF WABASH NE SEWER SEPARATION PROJECT

The project included construction of approximately 10,000 feet of 12-inch to 30-inch storm sewer and approximately 1,500 feet of sanitary sewer for sewer separation and reduction of CSO volumes to Charley Creek. Approximately 2,000 feet of storm sewer was located within pavement of SR 13 and involved significant coordination with INDOT and utilities. **UNITED** assisted the City in obtaining the OCRA Grant and other financing for the project.

- **APPROXIMATE CONSTRUCTION COST:** $1,500,000
- **SERVICES PROVIDED BY UNITED:** Planning, Survey, Design Engineering, Permitting, Land Acquisition, Bidding Services, and Construction Administration

CITY OF WABASH CSO PHASE 2 MITIGATION PROJECT

This project was part of the IDEM approved Long Term Control Plan for the City involving sewer separation at multiple areas across the collection system. Work included installation of approximately 8,000 LF of 12-inch to 24-inch storm sewer, 4,000 LF of 8-inch to 10-inch sanitary sewer, and 1,800 LF of 8-inch to 12-inch CIPP lining. Intersection improvements included ADA ramp construction. A relief sewer and flow division structure were also installed to alleviate an existing bottleneck in the collection system with an adjustable fiberglass stop log weir.

- **APPROXIMATE CONSTRUCTION COST:** $2,470,427
- **SERVICES PROVIDED BY UNITED:** Evaluation, XPSWMM Modeling, Survey, Design, Land Acquisition, Permitting, Bidding, Construction Administration

CITY OF WABASH CSO PHASE 3 MITIGATION PROJECT

This project was part of the IDEM approved Long Term Control Plan for the City involving sewer separation at multiple areas across the collection system. Work included installation of approximately 2,800 LF of 12-inch to 24-inch storm sewer and 3,700 LF of 8-inch to 30-inch sanitary sewer. The majority of the work was concentrated in the SR 15 corridor, requiring INDOT coordination and approvals. One location required trenchless jack and bore installation at a railroad crossing. Restoration included full width mill and resurface along with ADA ramp construction. Construction also included a series of conflict structures, a flow diversion structure and a relocated CSO outfall including new regulator structure. Upon completion of this project and removal of all sanitary flows, the existing 48-inch combined sewer in the corridor was transitioned to a dedicated storm sewer with an outfall to the Wabash River.

- **APPROXIMATE CONSTRUCTION COST:** $2,244,321
- **SERVICES PROVIDED BY UNITED:** Evaluation, XPSWMM Modeling, Survey, Design, Land Acquisition, Permitting, Bidding, Construction Administration

RELEVANT UNITED CONSULTING PROJECTS

NEW CASTLE CSO LONG TERM CONTROL PLAN

PROJECT TYPE
Sanitary and Storm Sewer Separation

LOCATION
New Castle, Indiana

OWNER
City of New Castle

OWNER CONTACT
Dave Barker
Director of Public Works
Phone: 765-529-7605

ENGINEER/KEY PERSONNEL
UNITED CONSULTING
Keith Bryant, PE
Dann Barrett, PE

CITY OF NEW CASTLE CSO SEPARATION 3B PROJECT

As part of New Castle's CSO Long Term Control Plan, the City was required to separate a portion of its sanitary and storm sewers through their CSO Mitigation Program. The project resulted in reduced combined sewer overflows and decreased flooding issues for the residents.

The project included:

- Approximately 12,800 feet of new 12-inch to 60-inch storm sewer.
- Approximately 1,600 feet of new sanitary sewer.
- Approximately 2,800 feet of new watermain.
- Existing lift station improvements.
- Miscellaneous manholes, inlets, and structures.
- Paving and sidewalk improvements.
- Restoration.

- **APPROXIMATE CONSTRUCTION COST:** $6,800,000
- **SERVICES PROVIDED BY UNITED:** Study & Evaluation, Survey, Design Engineering, Permitting, Bid Assistance, and Construction Inspection/ Administration

CITY OF NEW CASTLE CSO PHASE 3 MITIGATION PROJECT

This project was part of the IDEM approved Long Term Control Plan for the City involving sewer separation at multiple areas across the collection system. Work included installation of approximately 29,000 LF of 12-inch to 30-inch storm sewer, 1,000 LF of low-pressure sewer, and 250 LF of 8-inch sanitary sewer. Restoration included full width mill and resurface and over 60 ADA curb ramps.

- **APPROXIMATE CONSTRUCTION COST:** $7,681,357
- **SERVICES PROVIDED BY UNITED:** Evaluation, XPSWMM Modeling, Survey, Design, Land Acquisition, Permitting, Bidding, Construction Administration

CITY OF NEW CASTLE CSO PHASE 4 MITIGATION PROJECT

This project was part of the IDEM approved Long Term Control Plan for the city involving sewer separation at multiple areas across the collection system. Work included installation of approximately 22,000 LF of 12-inch to 36-inch storm sewer, 2,300 LF of 8-inc to 12-inch sanitary sewer, related appurtenances, and a 3.8 acre-foot stormwater retention pond. Restoration included full width mill and resurface and over 40 ADA curb ramps.

- **APPROXIMATE CONSTRUCTION COST:** $6,885,805
- **SERVICES PROVIDED BY UNITED:** Evaluation, XPSWMM Modeling, Survey, Design, Land Acquisition, Permitting, Bidding, Construction Administration

RELEVANT UNITED CONSULTING PROJECTS

VARIOUS CSO LONG TERM CONTROL PLAN PROJECTS

PROJECT TYPE
Sanitary and Storm Sewer Separation

LOCATION
Various Locations in Indiana

OWNER
Various Municipalities

ENGINEER/KEY PERSONNEL
UNITED CONSULTING
Keith Bryant, PE
Kelly Cunningham, PE

CITY OF HARTFORD CITY CSO STUDIES, CSO LTCP, SANITARY, & STORMWATER MASTER PLANNING

UNITED prepared Hartford City's CSO Operational Plan, Stream Reach Characterization Evaluation Report (SRCER), Long Term Control Plan (LTCP), and Use Attainability Analysis. **UNITED** guided the City through these critical studies, evaluations, and planning which included stormwater, sanitary, and treatment plant evaluation and Master Planning.

- **APPROXIMATE CONSTRUCTION COST:** $16,000,000
- **SERVICES PROVIDED BY UNITED:** IDEM Coordination and Agreed Order Negotiation, Coordination with City Personnel, Assembling the Reports, Conducting CAC Meetings, Establishing SRCER Protocol, System Investigations and Evaluations, Evaluating Data, Establishing and Evaluating Project Scope and Costs, Evaluating Alternatives, XPSWMM Hydraulic Modeling, Public Meetings and Presentations, Use Attainability Analysis, Affordability Analysis, and Preliminary Engineering

CITY OF SULLIVAN CSO LONG TERM CONTROL PLAN, WATER QUALITY COMPLIANCE PLAN

The city of Sullivan hired **UNITED** to prepare the City's CSO Long Term Control Plan (LTCP). The first step included Agreed Order negotiations with IDEM. The original LTCP was submitted in 2003. An Addendum #1 was prepared, submitted, and approved in 2006. **UNITED** also conducted the Water Quality Compliance Study for the wastewater treatment plant. The study resulted in identifying the need for a new mechanical treatment plant to meet future NPDES plant limits.

- **APPROXIMATE CONSTRUCTION COST:** $15,000,000
- **SERVICES PROVIDED BY UNITED:** IDEM Coordination and Agreed Order Negotiations, Coordination with City Personnel, Report Preparation, CAC Meetings, System Investigations and Evaluations, Data Evaluations, Establishing and Evaluating Project Scopes and Costs, Alternative Evaluations, XPSWMM Hydraulic Modeling, Public Meetings and Presentations, Use Attainability Analysis, Affordability Analysis, and Preliminary Engineering. **UNITED** also designed the completed wastewater treatment plant for the City.

CITY OF ANDERSON CSO 013 OUTFALL STABILIZATION PROJECT

The city of Anderson has a 108" diameter Combined Sewer Overflow (CSO) structure tributary to the West Fork White River (CSO-013). The discharge area immediately downstream of CSO-013 is scoured and eroded to the point that debris/waste collects after a CSO event and causes objectionable odors for users of the adjacent non-motorized pathway. The project includes construction of a trapezoidal concrete channel approximately 90 feet long with an 18 foot wide bottom width flaring out to 30 feet and 4 – 7 feet high side walls with 1:1.5 (rise:run) slopes. Additionally, 24" thick riprap will be placed at the end of the new concrete channel and outside of the wing walls of the existing outfall structure.

- **APPROXIMATE CONSTRUCTION COST:** $250,530
- **SERVICES PROVIDED BY UNITED:** Survey, Design, Permitting, Bidding, Construction Administration, Construction Inspection

■ RELEVANT UNITED CONSULTING PROJECTS

CITIZENS ENERGY GROUP - EAGLE CREEK CSO ABATEMENT PROJECT

PROJECT TYPE
Combined Sewer, CSO, Water Main

LOCATION
Indianapolis, Indiana

OWNER
Citizens Energy Group

OWNER CONTACT
Olivia Hawbaker, PE
Project Manager
Phone: 317-429-3957

ENGINEER/KEY PERSONNEL
UNITED CONSULTING
Keith Bryant, PE
Paul Glotzbach, PE
Dann Barrett, PE

SUBCONSULTANTS
Black & Veatch
CTL Engineering
Guidon
Parsons, Cunningham, and Shartle

CONTRACTOR
Wilhelm Construction

CONSTRUCTION COST
$11,100,000

COMPLETION YEAR
2016

SERVICES PROVIDED
Design, Permitting, Construction Administration

DESCRIPTION
The Eagle Creek CSO Abatement Project involved construction of consolidation sewers, diversion structures, a screen/gate structure and related improvements to provide conveyance of wet-weather flow to the Eagle Creek Tunnel/Deep Rock Tunnel Connector and reducing CSO volumes to four CSOs discharging to Eagle Creek in the City of Indianapolis. The project included 2,800 feet of 48-inch sewer, cast-in-place concrete diversion and screen/gate structures, power building, connection to 250-foot deep drop shaft, and water main relocation. The project also included restoration and improvements at Ross Claypool Park, which was the upper end of the Eagle Creek Tunnel and drop shaft site. These improvements included parking lot replacement, basketball court replacement, and trails.

■ RELEVANT UNITED CONSULTING PROJECTS

CITY OF COLUMBIA CITY - PHASE IIB CSO MITIGATION PROJECT

PROJECT TYPE
CSO Storage Basin, Sanitary Sewer, Lift Station

LOCATION
Columbia City, Indiana

OWNER
City of Columbia City

OWNER CONTACT
Mike Cook
Water Pollution Control Superintendent

ENGINEER/KEY PERSONNEL
UNITED CONSULTING
Keith Bryant, PE
Chris Rowlett

CONTRACTOR
R.E. Crosby, Inc.

CONSTRUCTION COST
$10,480,085

COMPLETION YEAR
2021

SERVICES PROVIDED
Preliminary Engineering Report, XPSWMM Modeling, Funding Coordination (Rural Development & OCRA), Design, Permitting, Bidding, Construction Administration and Construction Observation

DESCRIPTION
This project was the final phase of the City's approved long term control plan to address combined sewer overflows. Work consisted of construction of three CSO storage basins and large diameter interceptors to provide below grade storage during and immediately after storm events to accommodate the 10-year/1-hour storm event. In addition to the three concrete storage basins, work included one duplex lift station (3,000 gpm pumping capacity), approximately 2,800 linear feet of 16-inch force main, 4,500 LF of 8-inch to 60-inch sanitary sewer, 2,000 LF of 4-inch to 12-inch water main replacement, and site restoration.

OTHER
UNITED prepared a preliminary engineering report and assisted the City in securing an OCRA grant and USDA Rural Development financing for the project.

■ RELEVANT UNITED CONSULTING PROJECTS

MUNCIE - GUARANTEED SAVINGS CONTRACT PROJECTS

PROJECT TYPE
CSO Mitigation / Green Infrastructure / Drainage Improvements / Levee Improvements / Emergency Maintenance / System Expansion

LOCATION
Muncie, Indiana

OWNER
Muncie Sanitary District (MSD)

OWNER CONTACT
John Barlow
District Administrator
Phone: 765-213-6468

ENGINEER/KEY PERSONNEL
UNITED CONSULTING
Paul Glotzbach, PE
Matt Schutte, EI
Barry Pratt

SUBCONSULTANTS
BLN

CONTRACTOR
Bowen Engineering

CONSTRUCTION COST
$89,000,000

COMPLETION YEAR
2021

SERVICES PROVIDED
Survey, Design, Permitting, GSC Contracting, Construction Administration, Inspection

DESCRIPTION
The project involves planning, design, construction administration, and construction inspection of CSO Mitigation Projects for compliance with MSD's CSO Long Term Control Plan, Green Infrastructure, Drainage Improvements, Levee Improvements, Emergency Maintenance, and System Expansion. A total of over 60 projects have been constructed by one general contractor as designed by MSD and 13 engineering firms. In addition to planning and design of several projects, United provided day to day coordination between MSD, contractor, design engineers, and construction inspectors.

OTHER
Specific tasks as follows:

- Coordination with City, County, INDOT, railroads, and utilities
- Coordination of easements and right of entries
- Permitting – DNR, USACE, IDEM
- Daily reports of construction progress
- Construction photographs
- Material verification and testing
- Assist with construction contracting
- Issue Request for Proposals (RFP's) and assist with price negotiations
- Issue Field Orders (FO's) to document assignments to contractor
- Track budget status of MSD bonds
- Track savings balance achieved through construction
- Develop and maintain list of projects for funding by potential savings
- Issue Substantial Completion and Final Completion documents
- Prepare punchlist of remaining work to be completed for Project Final Completion
- Coordinate submittal of engineering invoicing to assist MSD accounting
- Review monthly pay applications and contractor buy sheets for payment recommendations
- Manage allowances established in construction contract
- Coordinate Requests for Information (RFI's) between contractor and engineering
- Assist with GMAX process, price negotiations, and construction contracting
- Manage eCommunications web-based platform for access to all construction documentation by MSD, engineering, contractor, and inspectors

RELEVANT UNITED CONSULTING PROJECTS

CITY OF TERRE HAUTE – LOST CREEK LIFT STATION

PROJECT TYPE
Sanitary Lift Station

LOCATION
Terre Haute, Indiana

OWNER
City of Terre Haute

ENGINEER/KEY PERSONNEL
UNITED CONSULTING
Keith Bryant, PE
Paul Glotzbach, PE

CONSTRUCTION COST
$5,500,000

SERVICES PROVIDED
Land Acquisition, Design Engineering, Permitting, Construction Administration

DESCRIPTION
The project included construction of a 22 MGD sanitary lift station and approximately 320 feet of 30-inch force main to replace the existing lift station on the same site. The new lift station featured a cast-in-place concrete screen channel, wet-well, and valve vault, masonry building, submersible pumps with VFD controls, dual channel mechanical screen equipment, equipment hoist, diesel generator, site lighting, and various site improvements. The project also included stream bank and channel stabilization along the perimeter of the site and demolition of the existing lift station to allow space for additional site improvements.

■ RELEVANT UNITED CONSULTING PROJECTS

CICERO WWTP EXPANSION PROJECT

PROJECT TYPE
WWTP Expansion (Extended Aeration Oxidation Ditch)

LOCATION
Cicero, Indiana

OWNER
Town of Cicero

OWNER CONTACT
Terry Cooper
Street & Utilities Director
Phone: 317-984-4833

Matt Dotson
Wastewater Superintendent
Phone: 317-984-4833

ENGINEER/KEY PERSONNEL
UNITED CONSULTING
Keith Bryant, PE
Dann Barrett, PE
Troy Casey, PE

CONTRACTOR
Reynolds Construction

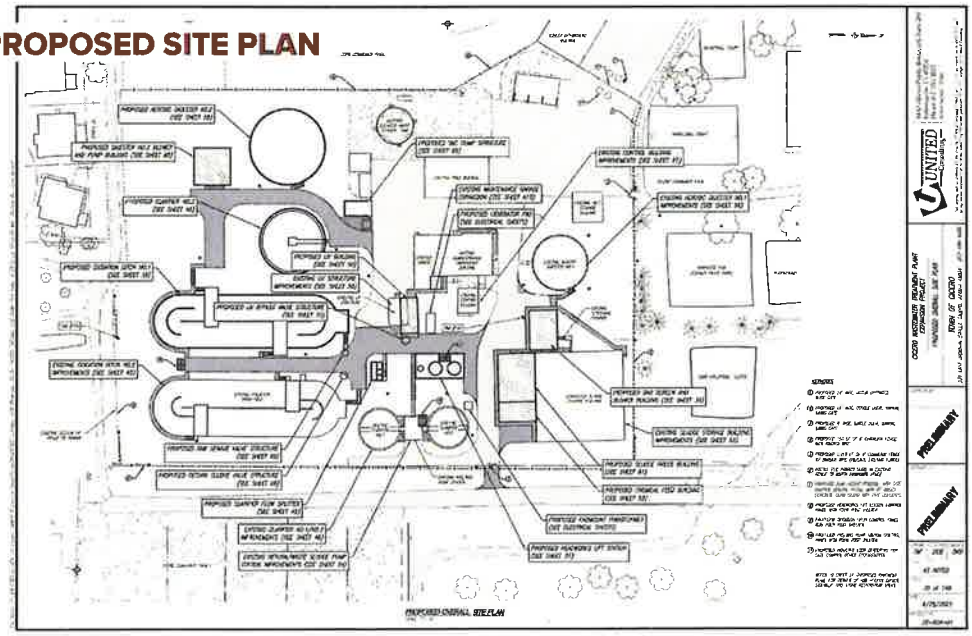
CONSTRUCTION COST
$22,500,000

SERVICES PROVIDED
Survey, Design, Bidding, Value Engineering, Construction Administration

DESCRIPTION
This project is a wastewater treatment plant expansion project aimed to address an IDEM agreed order for wet weather bypasses and to increase biological loading capacity of the facility. Work included new structures, piping, and improvements to existing facilities to double the plant capacity from 0.75 MGD average daily flow to 1.5 MGD average daily flow with a peak hourly flow of 4.3 MGD. Improvements included mechanical screening, headworks lift station, oxidation ditches, clarifier splitter structure, secondary clarifiers, ultraviolet disinfection, RAS/WAS lift station, aerobic digesters, sludge dewatering and storage, chemical phosphorus removal, vac dump station, multiple masonry buildings, SCADA monitoring system, site piping, and related site enhancements. Construction sequencing was developed to maintain operations and effluent quality during construction.

OTHER
Project delivery methods were evaluated and ultimately a BOT (Build-Operate-Transfer) process was determined to be the best path forward. **UNITED** worked closely with the Town to guide them through the BOT selection process and then worked with the selected contractor to perform a robust value engineering and alternative analysis for the project.

PROPOSED SITE PLAN



PROJECT APPROACH

Based on the anticipated scope of services, our team's proposed approach is divided between a planning phase for the alternative evaluation and design phase for the selected project delivery as follows:

PLANNING PHASE (ALTERNATIVE EVALUATION)

1. Coordinate a preliminary project scoping meeting with the town of Speedway representatives to introduce the project team and establish project goals to ensure expectations are met.
2. Compile and review all available data including record drawings, IDEM correspondence, long term control plans, MROs, rainfall data, and flow monitoring data.
3. Evaluate alternatives to determine the most effective way to achieve the level of control defined in the town of Speedway's long term control plan. The evaluation will consider feasibility, effectiveness, construction costs, and operation and maintenance requirements.
4. Conduct a site visit and preliminary site survey to verify details of interest for project alternatives.
5. Conduct a phone survey with wastewater facilities employing alternative CSO control facilities being evaluated to better understand operations, maintenance, and effectiveness. Efforts will focus on alternative approaches to satisfy the agreed order including inline storage and cloth media disk filters for wet weather treatment. Site visits may be coordinated with town of Speedway representatives as desired to review technology and operations.
6. Develop planning level cost estimates for each alternative.
7. Develop and analyze the life cycle costs for each alternative accounting for operation and maintenance expenditures.
8. Hold regular meetings with town of Speedway representatives as the Preliminary Engineering Report is being developed to update on current progress, review approach, seek input, and discuss findings. Meeting minutes will be prepared and distributed following each meeting.
9. Identify the recommended project alternative.
10. Develop a draft Preliminary Engineering Report summarizing the research, evaluation, alternatives, and recommendations for the CSO Expansion Project including relevant exhibits, cost estimates, and figures.
11. Review the draft Preliminary Engineering Report with town of Speedway representatives.
12. Prepare a final Preliminary Engineering Report.
13. Assist the town of Speedway with the selected project submittal to IDEM in accordance with the CSO Compliance Plan and Agreed Order.
14. Address any questions from IDEM related to the selected plan. Assist the town of Speedway throughout the IDEM approval process and into the start of the project design phase.
15. Provide quality assurance / quality control throughout the Preliminary Engineering Report development process.

PROJECT APPROACH

DESIGN PHASE (SELECTED PROJECT ALTERNATIVE)

1. Coordinate a design phase kickoff meeting with the town of Speedway representatives to introduce the project team and establish project goals to ensure expectations are met.
2. Complete full topographical survey for the selected project alternative.
3. Perform geotechnical engineering to establish soil conditions, bearing capacities, and construction recommendations for the selected project alternative. Results will be summarized in a geotechnical investigation report.
4. Perform an environmental review as required in compliance with all local, state, and federal guidelines.
5. Assist with land acquisition services as required.
6. Prepare detailed plans and specifications and conduct design review workshops with town of Speedway at the 30%, 60%, 90% phases of the project.
7. Develop detailed cost estimates for the project at each design submittal phase.
8. Coordinate with the Town's SCADA consultant to ensure seamless integration of the selected project with the Town's existing monitoring and control system.
9. Develop a proposed construction schedule, sequencing, and restrictions to comply with permit conditions and maintain plant effluent quality throughout construction.
10. Perform an independent constructability review at the 30% and 60% completion stages.
11. Prepare permit applications and coordinate project permitting including the IDEM Wastewater Treatment Plant Construction Permit.
12. Prepare and submit final (100% design) bidding documents and estimate.
13. Assist with funding and loan closeout.
14. Prepare and distribute monthly progress status reports detailing completed work, upcoming work, schedule updates, scope changes, and action items.
15. Hold regular meetings with town of Speedway representatives as the design is being developed to update on current progress, review approach, seek input, and discuss findings. Meeting agendas will be distributed in advance and minutes will be prepared and distributed following each meeting.
16. Assist with any public meetings as desired by town of Speedway.
17. Provide quality assurance / quality control throughout the design process for every deliverable including plans, specifications, and estimates.

PROJECT APPROACH




18 Provide bidding phase services including the following:

- **A.** Coordinate the plan room set up and project advertisement.
- **B.** Respond to contractor, supplier, and vendor questions.
- **C.** Attend and conduct a pre-bid meeting and distribute minutes.
- **D.** Review the bids and prepare a certified bid tabulation.
- **E.** Verify the apparent low-bidder's project understanding, previous experience, and capabilities to perform the project.
- **F.** Prepare a formal recommendation for project award.
- **G.** Meet with Town personnel to review the post-bid results and recommendations.
- **H.** Assemble the construction contract.

19 Provide construction phase services including the following:

- **A.** Attend and conduct a pre-construction meeting and distribute minutes.
- **B.** Provide appropriate coordination with onsite construction and Town representatives during construction.
- **C.** Assist in resolution of questions or construction issues.
- **D.** Attend and conduct monthly construction progress meetings and distribute minutes.
- **E.** Additional site inspections and meetings periodically throughout construction to ensure that the project proceeds in accordance with the Contract Documents.
- **F.** Review shop drawing submittals for compliance with the project specifications.
- **G.** Review Contractor pay applications and make recommendations to the town of Speedway.
- **H.** Review Contractor change order claims and make recommendations to the town of Speedway.
- **I.** Witness system testing and equipment start up.
- **J.** Assist with substantial completion inspection, assembly of punch list items, and paperwork.
- **K.** Prepare record drawings based upon red-line markups from the contractor.
- **L.** Assist with warranty inspection, assembly of punch list items, and paperwork.

SPEEDWAY CSO RFP / UNITED'S ITEMIZED AND TOTAL PROPOSED PRICE

The proposed project will be executed in multiple phases. The preliminary engineering phase has a defined scope of work and schedule. We have developed a detailed scope of work and proposed fee for consideration to evaluate four specific alternatives and prepare a Preliminary Engineering Report. A proposed agreement with all terms and conditions is included in Appendix A with a proposed fee of $99,400. Upon selection, this Agreement could be executed to begin the Preliminary Engineering Report efforts immediately.

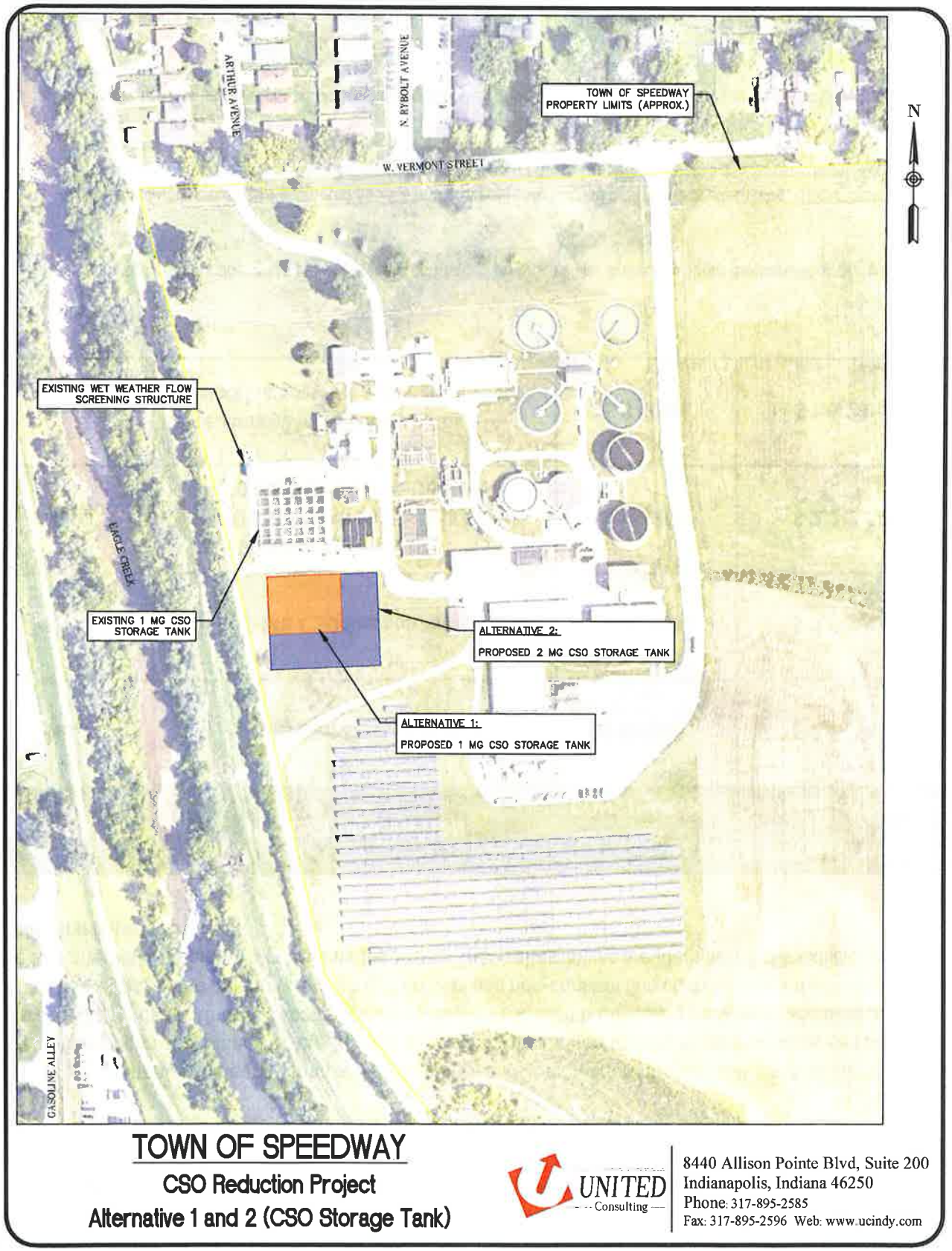
Once the preliminary engineering phase is complete, a recommended project will be presented for Town consideration. Upon acceptance by the Town, a detailed scope and fee for engineering services can be prepared for the accepted project. Until that scope of work is clearly defined, it is difficult to provide an accurate proposal for the cost of services. In the meantime, construction costs and non-construction costs have been estimated for each of the four alternatives below for budgetary purposes. These alternatives are identified in the exhibits included on the following pages (25-27).

ALTERNATIVE	PROJECT DESCRIPTION	ESTIMATED COSTS	
		CONSTRUCTION	NON-CONSTRUCTION
No. 1	1 MG CSO Storage Tank	$ 10-12M±	$ 2.0-2.4M±
No. 2	2 MG CSO Storage Tank	$ 15-17M±	$ 3.0-3.4M±
No. 3	Wet Weather Treatment - 10 MGD Cloth Media Disk Filters - 20 MGD UV System Upgrade	$ 11-13M±	$ 2.2-2.6M±
No. 4	Inline Storage in 72" interceptor - Select low pressure sewer installations	$ 8-10M±	$ 1.6-2.0M±

Notes:

- Estimated construction costs are preliminary and based on past similar projects without the benefit of design plans or specifications.
- Non-construction costs are estimated as 20% of the overall construction cost for each alternative. These costs include survey, geotechnical, engineering (design phase, bid phase, construction phase assistance), legal, and financial services.
- All work is assumed to occur within existing right-of-way and easements. Non construction costs exclude land acquisition.
- Construction costs will be better defined in the Preliminary Engineering Report following investigation of site conditions, preliminary design layouts, and coordination with equipment vendors.

PROJECT ALTERNATIVE 1 AND 2 (CSO STORAGE TANK)



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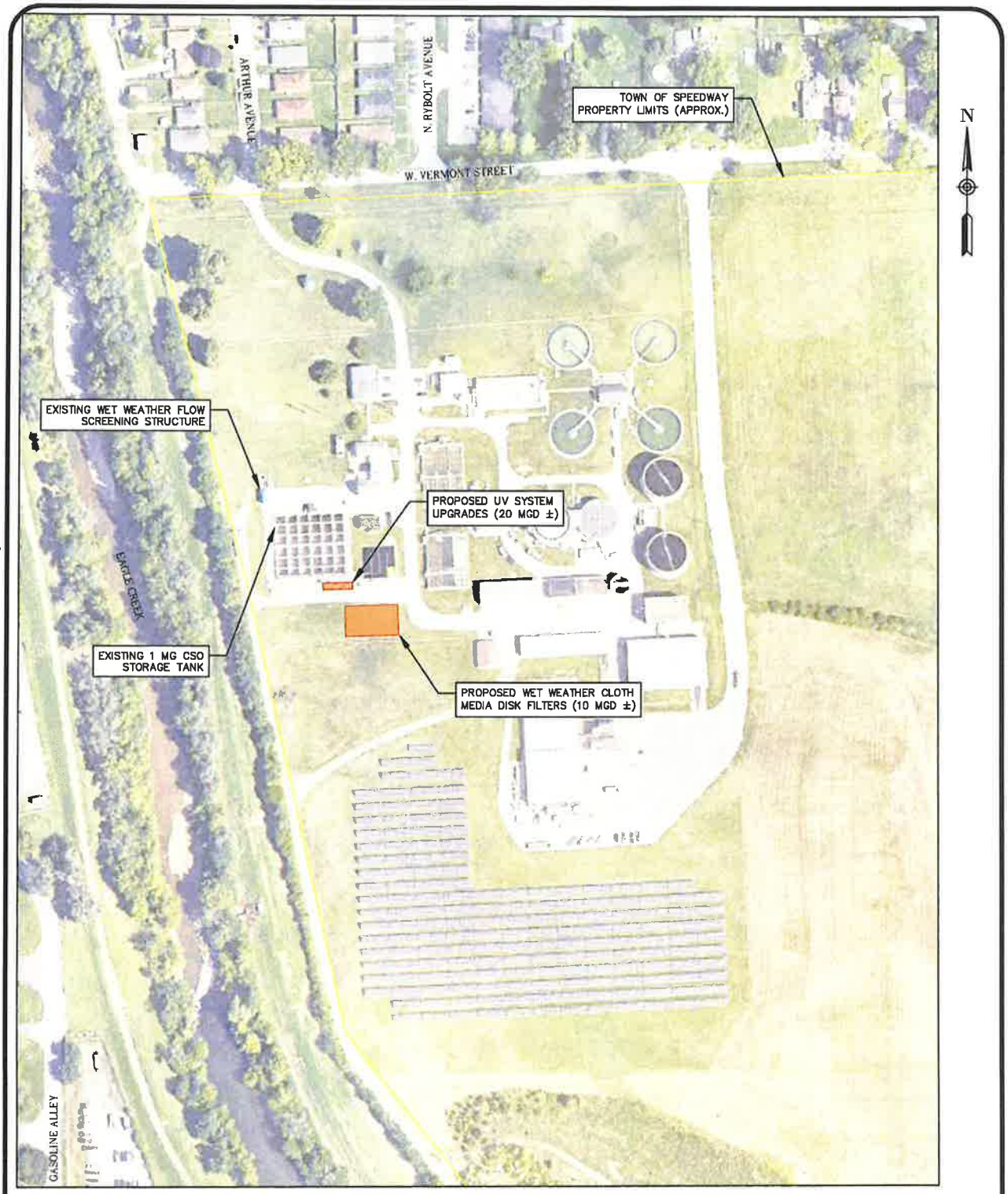
TOWN OF SPEEDWAY

CSO Reduction Project

Alternative 1 and 2 (CSO Storage Tank)

UNITED Consulting
8440 Allison Pointe Blvd, Suite 200
Indianapolis, Indiana 46250
Phone: 317-895-2585
Fax: 317-895-2596 Web: www.ucindy.com

PROJECT ALTERNATIVE 3 (WET WEATHER TREATMENT)



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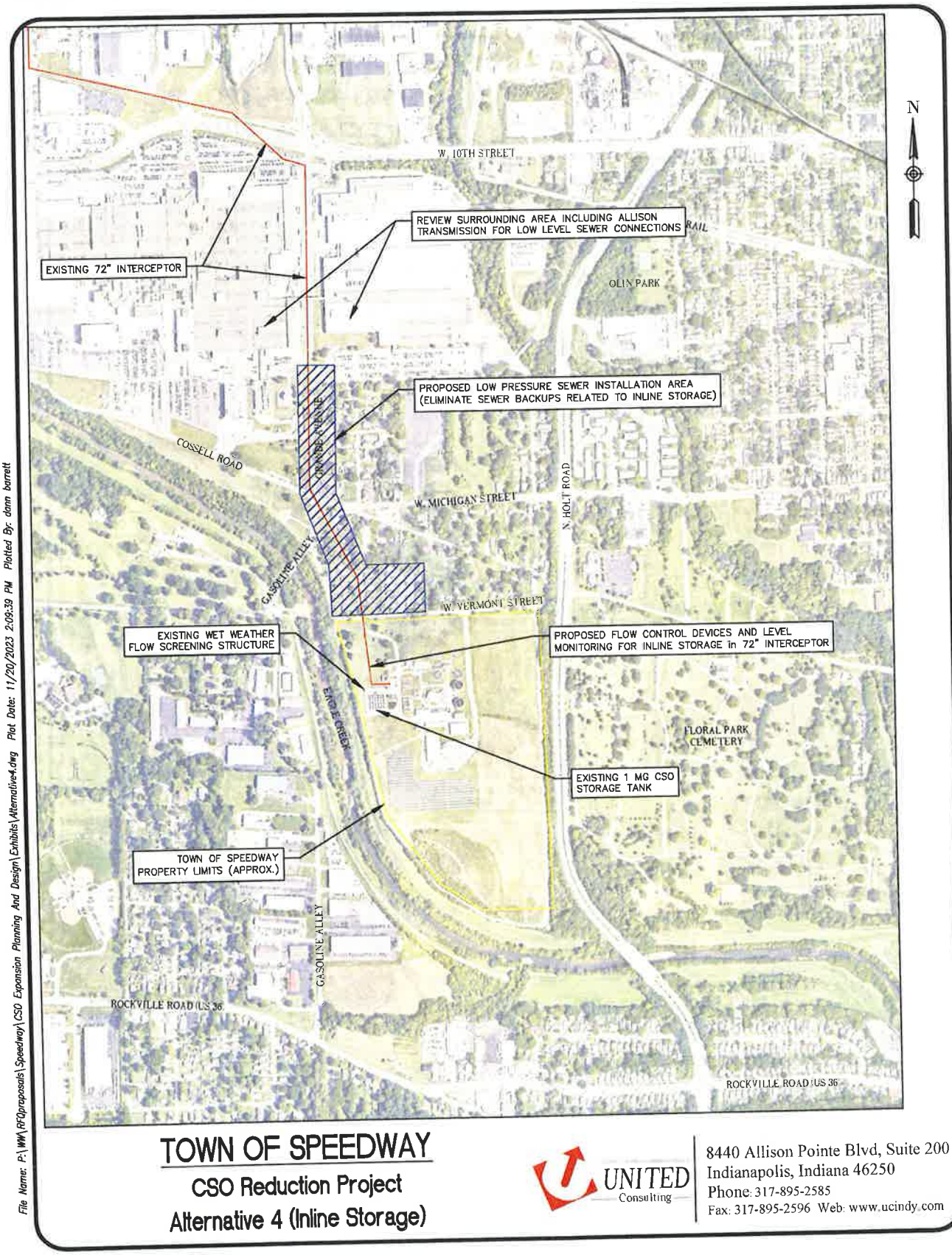
TOWN OF SPEEDWAY

CSO Reduction Project

Alternative 3 (Wet Weather Treatment)

UNITED Consulting
8440 Allison Pointe Blvd, Suite 200
Indianapolis, Indiana 46250
Phone: 317-895-2585
Fax: 317-895-2596 Web: www.ucindy.com

PROJECT ALTERNATIVE 4 (INLINE STORAGE)



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TOWN OF SPEEDWAY

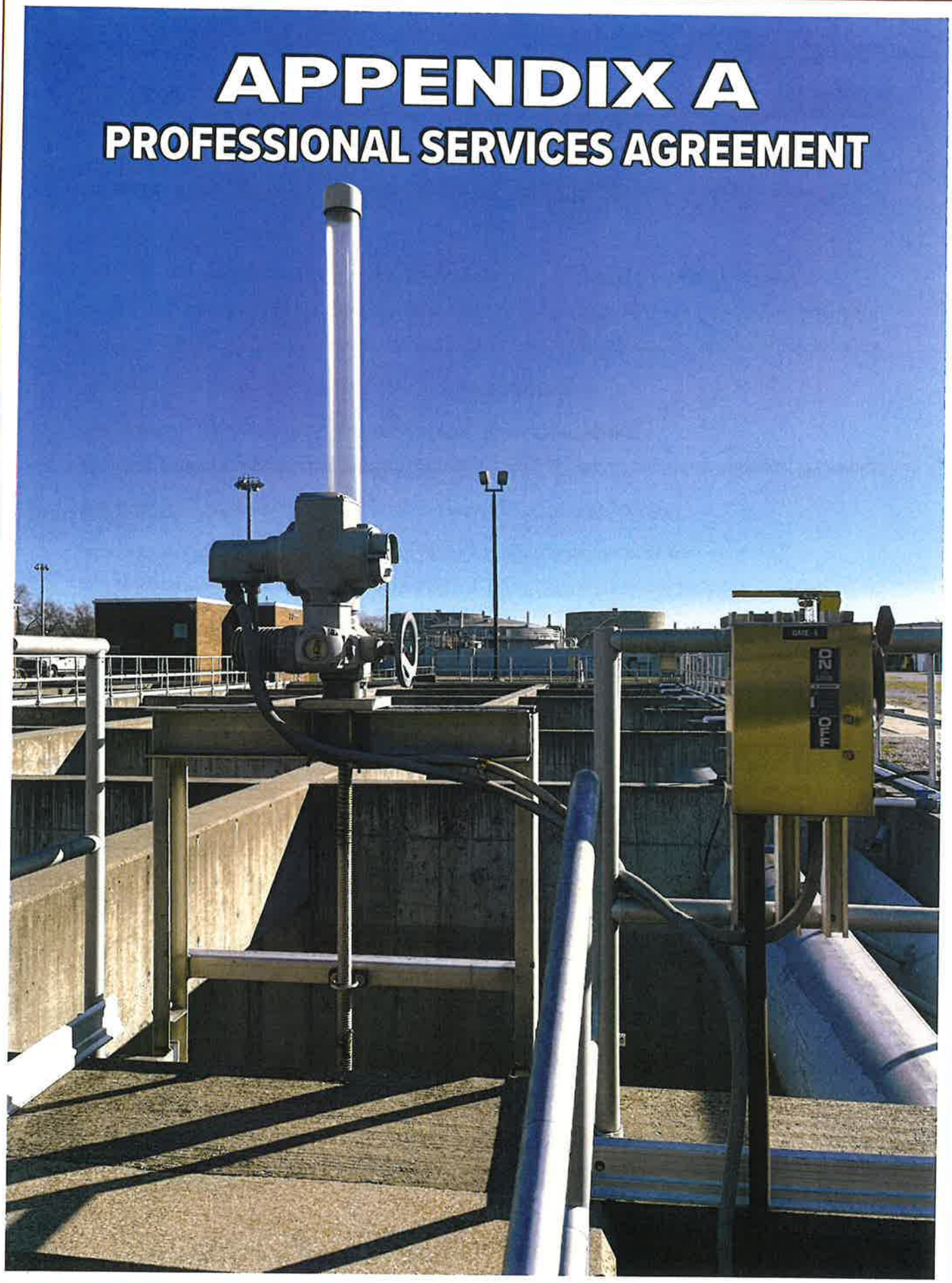
CSO Reduction Project

Alternative 4 (Inline Storage)

UNITED Consulting
8440 Allison Pointe Blvd, Suite 200
Indianapolis, Indiana 46250
Phone: 317-895-2585
Fax: 317-895-2596 Web: www.ucindy.com

APPENDIX A

PROFESSIONAL SERVICES AGREEMENT



PROFESSIONAL SERVICES AGREEMENT

This PROFESSIONAL SERVICES AGREEMENT ("Agreement") is made, by and between ***TOWN OF SPEEDWAY***, ("CLIENT") and ***UNITED CONSULTING,*** an Indiana corporation ("UNITED CONSULTING").

WITNESSETH

WHEREAS, UNITED CONSULTING desires to provide, and CLIENT desires for UNITED CONSULTING to provide, certain professional services to be performed with respect to ***CSO EXPANSION – PRELIMINARY ENGINEERING REPORT*** ("Project"), subject to the terms and conditions set forth in this Agreement;

NOW, THEREFORE, in consideration of the promises, the mutual covenants and undertakings herein contained and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereby agree as follows:

Section I – Services by UNITED CONSULTING

The professional services to be performed by UNITED CONSULTING are described in Appendix "A" attached hereto, and made a part hereof, and are referred to herein as the "Services".

Section II – Information and Services to be furnished by CLIENT

The information and services to be furnished by the CLIENT are as set out in Appendix "B", which is attached to this Agreement, and incorporated herein by reference.

Section III – Commencement of Services and Schedule

UNITED CONSULTING shall commence performance under this Agreement upon execution by the parties and shall provide the Services hereunder in accordance with the Schedule contained in Appendix "C", which is attached to this Agreement, and incorporated herein by reference.

Section IV - Compensation

For all Services rendered by UNITED CONSULTING under this Agreement, CLIENT agrees to pay UNITED CONSULTING on the basis of fees and charges established in Appendix "D", which is

attached to this Agreement, and incorporated herein by reference.

Section V – Term and Termination

1. Term

This Agreement shall commence upon execution by the parties and shall continue until completion of the Services and deliverables as set forth in Appendix "C" or unless terminated as set forth below.

2. Termination

CLIENT reserves the right to terminate or suspend this Agreement upon five days advance written notice to UNITED CONSULTING. Upon termination of this Agreement, UNITED CONSULTING shall deliver all Work Product (as defined herein) to CLIENT. The dollar amount for any earned but unpaid Services performed by UNITED CONSULTING shall be based upon an estimate of the portions of the total Services completed by UNITED CONSULTING through the effective date of termination, which estimate shall be as made by CLIENT in the exercise of its honest and reasonable judgment for all Services to be paid for on a lump sum basis and shall be based upon an audit by CLIENT of those Services to be paid for on a cost basis or a cost plus fixed fee basis as described in Section IV hereof.

Section VI - General Provisions

1. Subcontracting

It is recognized that UNITED CONSULTING may engage subcontractors to perform a portion of the work under this Agreement. The engagement of subcontractors by UNITED CONSULTING shall not relieve UNITED CONSULTING of any responsibility for the fulfillment of this Agreement. No subcontractor shall subcontract any portion of its work under this Agreement.

UNITED CONSULTING will include a term requiring compliance with all applicable Code of Ethics and Conflict of Interest Policies of the CLIENT in any agreement with a subcontractor for the fulfillment of work under this Agreement.

2. Ownership of Documents

All reproducible materials prepared by UNITED CONSULTING or its subcontractors in connection with this Agreement, alone or in combination with others, on any and all media, in whole or in part, and all copies thereof, whether created before, during, or after the term

of this Agreement (collectively, the "Work Product") will be the property of CLIENT.

UNITED CONSULTING shall be allowed to retain copies of all documents included in the Work Product, unless prohibited for reasons of security and as mutually agreed by both parties.

UNITED CONSULTING agrees that written agreements with any and all subcontractors used by UNITED CONSULTING to fulfill UNITED CONSULTING's obligations hereunder shall contain language substantially similar to that of this Subsection to assign to CLIENT all Work Product by such subcontractors, and to require cooperation with UNITED CONSULTING on the same terms and conditions as set forth herein.

The provisions of this Subsection shall survive the expiration, suspension, abandonment, termination, or completion of this Agreement.

3. *Access to Records*

Full access to the work during the progress of the Services shall be available to the CLIENT. UNITED CONSULTING and its subcontractors shall maintain all books, documents, papers, accounting records and other evidence pertaining to the cost incurred under this Agreement and shall make such materials available at its respective offices at all reasonable times during the period of this Agreement and for three (3) years from the date of final payment for Services is made by the CLIENT to UNITED CONSULTING.

4. *Liability for Damages*

UNITED CONSULTING assumes all risk of loss, damage or destruction to the work product, to all of its materials, tools, appliances and property of every description, and for injury to or deaths of its employees or agents arising out of or in connection with the performance of this Agreement, excluding that which occurs due to the acts or failure to act of any third party, and excluding that which is caused by the CLIENT.

5. *Insurance*

a. Amounts and Coverage. UNITED CONSULTING shall procure and maintain at its expense insurance of the kind and in the amounts set forth in Appendix "E" by companies authorized to do such business in the State of Indiana covering all Services and related activities performed by UNITED CONSULTING.

b. Evidence of Insurance. Before commencing its Services, UNITED CONSULTING shall

furnish to CLIENT a certificate, or certificates, showing that it has complied with this Section VI.5. The policies shall not be changed or canceled unless thirty (30) days prior written notice has been given to CLIENT.

6. *Workmen's Compensation*

UNITED CONSULTING shall be responsible for providing all necessary unemployment and Worker's Compensation Insurance for it employees. UNITED CONSULTING shall provide the CLIENT with a certificate of insurance indicating that it has complied with this requirement.

7. *Changes in Work*

a. Prior Approval. UNITED CONSULTING shall not commence any additional services or change of scope until authorized by the CLIENT.

b. Additional Services. Additional services may include, but not be limited to:

i. Services associated with significant changes in the scope, extent, or character of the portions of the Project required by, but not limited to, changes in scope, complexity or schedule and revisions required by changes in applicable laws and regulations or due to any other causes beyond UNITED CONSULTING's control.

ii. Preparing to serve or serving as a consultant or witness for CLIENT in any litigation or other dispute resolution process related to the Project that does not involve a claim against UNITED CONSULTING or a claim that is based on an alleged act of negligence or breach of contract by UNITED CONSULTING.

iii. Subject to other provisions of this Agreement, additional or extended services during the Project made necessary by (1) emergencies or Acts of God endangering the Project site, (2) an occurrence of a hazardous environmental condition, (3) damages to CLIENT facilities caused by fire, flood or other cause, (4) acceleration or deceleration of the Project Schedule involving services beyond normal working hours, (5) significant delays, changes, or price increases occurring as a direct or indirect result of materials, equipment, or energy shortages, and (6) default or failure to perform by other consultants.

8. *Non-Discrimination and Code of Ethics*

UNITED CONSULTING and its subcontractors, if any, shall not discriminate against any employee or applicant for employment, to be employed in the performance of the Services under this Agreement, with respect to hire, tenure, terms, conditions or privileges of employment or any matter directly or indirectly related to employment, because of race, color, religion, sex, handicap, national original or ancestry. Breach of this covenant may be regarded as a material breach of the Agreement.

UNITED CONSULTING shall comply with all applicable Code of Ethics and Conflict of Interest Policies of the CLIENT.

9. *Safety*

a. Responsibility. UNITED CONSULTING shall be directly responsible for the safety requirements and programs applicable to its own employees, its subcontractors and other parties with whom it has contracted to perform Services with respect to the Project.

b. Compliance. UNITED CONSULTING's safety program shall comply with applicable federal, state and local statutes, rules, regulations and ordinances. UNITED CONSULTING shall report to CLIENT, in writing, any injury or accident at the Project site involving its employees, its subcontractors or other parties for which it is responsible, within forty-eight (48) hours or a shorter period of time if required by law.

c. Notification. UNITED CONSULTING shall not be responsible for the safety requirements or programs applicable to any other person or entity involved with the Project other than UNITED CONSULTING and its subcontractors.

10. *Independent Contractor*

CLIENT and UNITED CONSULTING are acting in an individual capacity in the performance of this Agreement and will not act as agents, employees, partners, joint venturers or associates of one another. The employees or agents of one party shall not be deemed or construed to be the employees or agents of the other party for any purpose whatsoever. Neither party will assume any liability for any injury (including death) to any persons, nor damage to any property, arising out of the acts or omissions of the agents, employees, or subcontractors of the other party. UNITED CONSULTING shall be responsible for providing all necessary unemployment and workers' compensation insurance for its employees.

11. *Indemnification*

UNITED CONSULTING agrees to indemnify the CLIENT for all claims and liability due to the negligent acts of UNITED CONSULTING or its subcontractors, agents or employees.

12. *Notification*

All written notices required by this Agreement shall be sent to the parties at the following addresses by Certified Mail, Return Receipt.

CLIENT:

Town of Speedway
Grant Kleinhenz, Town Manager
5300 Crawfordsville Road
Speedway, IN 46224

UNITED CONSULTING:

United Consulting
Michael A. Rowe, PE, President
8440 Allison Pointe Boulevard, Suite 200
Indianapolis, IN 46250

13. *Authority to Bind United Consulting*

As used in this Agreement, UNITED CONSULTING refers to United Consulting Engineers, Inc. d/b/a UNITED CONSULTING. Further, the signatory for UNITED CONSULTING represents that he/she has been duly authorized to execute this Agreement on behalf of UNITED CONSULTING and has obtained all necessary or applicable approvals to make this Agreement fully binding upon UNITED CONSULTING when his/her signature is affixed hereto.

14. *Successors and Assignees*

This Agreement is binding upon and shall inure to the benefit of CLIENT and UNITED CONSULTING and their respective successors and permitted assigns. UNITED CONSULTING shall not assign this Agreement without the written consent of CLIENT.

15. *Entire Agreement; Amendments*

This Agreement and its Appendices, each of which is incorporated herein by reference and made a part of this Agreement, constitutes the entire Agreement of the parties with regard to the subject matter hereof and supersedes all prior discussions or agreements concerning any subject matter related hereto. This Agreement may only be amended, supplemented or modified by a written document executed in the same manner as this Agreement.

16. *Governing Law*

This Agreement shall be governed by and construed in accordance with the laws of the State of Indiana, without giving effect to principles respecting conflicts of laws. Subject to Section 19, any action pursuant to this Agreement shall be brought and tried in a court of competent jurisdiction in Marion County, Indiana, and each party hereby irrevocably consents to the personal and subject matter jurisdiction of any such court and waives any objection to such jurisdiction and venue.

17. *Non-Waiver*

It is agreed and acknowledged that no action or failure to act by CLIENT or UNITED CONSULTING as to a breach, act or omission of the other shall constitute a waiver of any right or duty afforded either of them under this Agreement, as to any subsequent breach, act or omission of the other nor shall any such action or failure to act constitute an approval of or acquiescence in any breach thereof, except as may be specifically agreed in writing. No right conferred on either party under this Agreement shall be deemed waived and no breach of this Agreement excused unless such a waiver or excuse shall be in writing and signed by the party claimed to have waived such right.

18. *Invalid Provisions*

If any part of this Agreement is later found to be contrary to, prohibited by or invalid under applicable law, rules or regulations, that provision shall not apply and shall be omitted to the extent so contrary, prohibited or invalid, but the remainder of this Agreement shall not be invalidated and shall be given full force and effect insofar as possible.

19. Dispute Resolution

Any dispute arising out of this Agreement that cannot be resolved through informal discussions between the parties, shall be subject to this Section.

a. The parties agree that the existence of a dispute notwithstanding, the parties shall continue without delay to carry out all of their respective responsibilities under this Agreement.

b. Should any dispute arise with respect to this Agreement that cannot be resolved through informal discussions between the parties, a party shall serve written notice to the other party outlining the details of the dispute and demanding mediation. No later than twenty (20) days from the date of the notice demanding mediation, the parties shall confer to discuss the selection of the mediator and agree upon other mediation procedures.

c. Submission of a dispute under this Agreement to a mediation procedure shall be a condition precedent to filing litigation. No litigation shall be initiated by either party unless the mediation has been completed (unsuccessfully) or a party has failed to participate in a mediation procedure.

[Signature page follows]

UNITED CONSULTING - DRAFT PROFESSIONAL SERVICES AGREEMENT

IN WITNESS WHEREOF, the parties hereto have executed this Agreement.

UNITED CONSULTING

BY: _____
Michael A. Rowe, PE - President

BY: _____
Paul Glotzbach, PE – Vice President

DATE: _____

CLIENT

Town of Speedway

BY: _____
Vince Noblet, President

BY: _____
Gary Pedigo, Vice President

BY: _____
Eileen Fisher, Councilor

BY: _____
David Lindsey, Councilor

BY: _____
Gary Raikes, Councilor

DATE: _____

ATTEST: _____
Philip Foust, Clerk-Treasurer

LIST OF APPENDICIES

APPENDIX A

Services by UNITED CONSULTING

A. UNITED CONSULTING shall prepare a Preliminary Engineering Report and evaluate four different alternatives to determine the most effective way to achieve the level of control defined in the Town of Speedway's long term control plan. Completion of the Preliminary Engineering Report shall include the following items:

1. Coordinate a preliminary project scoping meeting with the Town of Speedway representatives to introduce the project team and establish project goals to ensure expectations are met.
2. Compile and review available data including record drawings, IDEM correspondence, long term control plans, MROs, rainfall data, and flow monitoring data.
3. Evaluate alternatives to determine the most effective way to achieve the level of control defined in the Town of Speedway's long term control plan. The evaluation will consider feasibility, effectiveness, construction costs, and operation and maintenance requirements.
4. Conduct a site visit and preliminary site survey to verify details of interest for project alternatives.
5. Conduct a phone survey with wastewater facilities employing alternative CSO control facilities being evaluated to better understand operations, maintenance, and effectiveness. Efforts will focus on alternative approaches to satisfy the agreed order including inline storage and cloth media disk filters for wet weather treatment. Up to one site visit may be coordinated with Town of Speedway representatives as desired to review technology and operations.
6. Develop planning level cost estimates for each alternative.
7. Develop and analyze the life cycle costs for each alternative accounting for operation and maintenance expenditures.

8. Hold one progress meeting with Town of Speedway representatives as the Preliminary Engineering Report is being developed to update on current progress, review approach, seek input, and discuss findings. Meeting minutes will be prepared and distributed following the meeting.
9. Identify the recommend project alternative.
10. Develop a DRAFT Preliminary Engineering Report summarizing the research, evaluation, alternatives, and recommendations for the CSO Expansion Project including relevant exhibits, cost estimates, and figures.

B. UNITED CONSULTING shall conduct a meeting to review the DRAFT Preliminary Engineering Report to ensure the final deliverable complies with the CLIENT's expectations of the Scope contained herein.

C. UNITED CONSULTING shall prepare a final Preliminary Engineering Report which shall include feedback from the CLIENT provided during the CLIENT coordination meeting.

D. UNITED CONSULTING shall assist the Town of Speedway with the selected project submittal to IDEM in accordance with the CSO Compliance Plan and Agreed Order.

E. UNITED CONSULTING shall provide Quality Assurance / Quality Control throughout the Preliminary Engineering Report development process.

Additional Services: UNITED CONSULTING may also provide additional services as directed by the CLIENT for an agreed upon lump sum fee. Additional services may include the following tasks:

1. XP-SWMM model development.
2. Design Phase, Bid Phase, and Construction Phase services of the selected project identified in the Preliminary Engineering Report.
3. Supplemental design survey.
4. Other additional services as requested.

APPENDIX B

UNITED Consulting

Services by CLIENT

The CLIENT shall furnish UNITED CONSULTING with the following:

1. Existing wastewater treatment plant and collection system mapping (PDF, CAD, GIS, etc. as available).
2. Plans of any existing structures within the project limits including record drawings of the wastewater treatment plant (PDF, CAD, etc. as available).
3. All previous correspondence with IDEM pertaining to the Agreed Order, CSO Compliance Plan, and Long-Term Control Plan.
4. All modeling data, rainfall data, MRO's, CSO Bypass data etc. related to Wastewater Treatment Plant operations and CSO operations.
5. Access to all treatment plant equipment and processes, facilities, sewers, and manholes.
6. Criteria for design and details as necessary including specifications and standard drawings applicable to the project.
7. All written views pertinent to the project that is received by the CLIENT.
8. Direction and option selection as recommended by UNITED CONSULTING.
9. Guarantee access to enter upon public and private lands as required for the UNITED CONSULTING to perform work under this Agreement.

APPENDIX C

UNITED Consulting

Schedule

All work by UNITED CONSULTING under this Agreement shall be completed and delivered to the CLIENT for review and approval within the following time periods:

A. Draft Preliminary Engineering Report and recommendations within ***180*** calendar days after receipt of flow monitoring data from the CLIENT.

B. Final Preliminary Engineering Report within ***60*** calendar days after receipt of Draft Engineering Report comments.

It is understood that the schedule may be impacted by weather and information to be provided by the CLIENT. UNITED CONSULTING will make efforts to meet the schedule subject to the impacts beyond its control.

APPENDIX D

Compensation

A. Amount of Payment

1. UNITED CONSULTING shall receive as payment for the work performed under this Agreement the total lump sum fee not to exceed **$99,400** unless a modification of the Agreement is approved in writing by the CLIENT.

B. Method of Payment

1. UNITED CONSULTING may submit a maximum of one invoice voucher per calendar month for work covered under this Agreement. The invoice voucher shall be submitted to the CLIENT. The invoice voucher shall represent the value, to the CLIENT, of the partially completed work as of the date of the invoice voucher. UNITED CONSULTING shall attach thereto a summary of each pay item in Section A.2. of this Appendix, percentage completed and prior payments.

2. The CLIENT for and in consideration of the rendering of UNITED CONSULTING services provided for in Appendix "A", agrees to pay UNITED CONSULTING for rendering such services the fee established above upon completion of the work thereunder and acceptance thereof by the CLIENT.

3. In the event of a substantial change in the scope, character or complexity of the work on the project, the maximum fee payable and the specified fee shall be adjusted in accordance with item 7, (changes in work) of the General Provisions, set out in this Agreement.

APPENDIX E

Insurance

ACORD

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 11/28/2023

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME:	Kristen Walker, CIC	
Walker Professional Insurance	PHONE (A/C, No, Ext):	(317)758-9321	FAX (A/C, No):
PO Box 55	E-MAIL ADDRESS:	Certificate@WalkerProfessional.com	
Carmel IN 46082	INSURER(S) AFFORDING COVERAGE		NAIC #
INSURED	INSURER A:	Sentinel Insurance Co. Ltd	11000
United Consulting Engineers, Inc.	INSURER B:	Hartford Accident & Indemnity Co	22357
8440 Allison Pointe Blvd Ste 200	INSURER C:	Property and Casualty Insurance Company of Hartford	34690
Indianapolis IN 46260	INSURER D:		
	INSURER E:		
	INSURER F:		

COVERAGES CERTIFICATE NUMBER: CL23102443713 REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	☒ COMMERCIAL GENERAL LIABILITY ☐ CLAIMS-MADE ☒ OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: ☐ POLICY ☒ PRO-JECT ☐ LOC ☐ OTHER:			36SBWUI8421	11/01/2023	11/01/2024	EACH OCCURRENCE	$ 1,000,000
							DAMAGE TO RENTED PREMISES (Ea occurrence)	$ 1,000,000
							MED EXP (Any one person)	$ 10,000
							PERSONAL & ADV INJURY	$ 1,000,000
							GENERAL AGGREGATE	$ 2,000,000
							PRODUCTS - COMP/OP AGG	$ 2,000,000
								$
B	AUTOMOBILE LIABILITY ☒ ANY AUTO ☐ OWNED AUTOS ONLY ☐ SCHEDULED AUTOS ☒ HIRED AUTOS ONLY ☒ NON-OWNED AUTOS ONLY			36UEGAE5702	11/01/2023	11/01/2024	COMBINED SINGLE LIMIT (Ea accident)	$ 1,000,000
							BODILY INJURY (Per person)	$
							BODILY INJURY (Per accident)	$
							PROPERTY DAMAGE (Per accident)	$
								$
A	☒ UMBRELLA LIAB ☒ OCCUR ☐ EXCESS LIAB ☐ CLAIMS-MADE ☐ DED ☒ RETENTION $ 10,000			36SBWUI8421	11/01/2023	11/01/2024	EACH OCCURRENCE	$ 5,000,000
							AGGREGATE	$ 5,000,000
								$
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y/N [N] N/A If yes, describe under DESCRIPTION OF OPERATIONS below			36WECCB8685	11/01/2023	11/01/2024	☒ PER STATUTE ☐ OTH-ER	
							E.L. EACH ACCIDENT	$ 1,000,000
							E.L. DISEASE - EA EMPLOYEE	$ 1,000,000
							E.L. DISEASE - POLICY LIMIT	$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Where allowable by law: General Liability, Automobile and Umbrella liability provides for additional insured when agreed by written contract or agreement. General Liability, Automobile and Umbrella liability are provided on a primary, non-contributory basis when agreed by written contract or agreement. General Liability, Automobile and Workers Compensation include blanket waiver of subrogation when agreed by written contract or agreement. Umbrella is follow form per the terms of the policy. 30 days notice of cancellation, except for non-payment, shall be provided to the certificate holder.

CERTIFICATE HOLDER	CANCELLATION
Town of Speedway Speedway Municipal Center 5300 Crawfordsville Road Speedway IN 46224	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE

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UNITED CONSULTING - DRAFT PROFESSIONAL SERVICES AGREEMENT

ACORD

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 11/28/2023

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER SterlingRisk 135 Crossways Park Drive P.O. Box 9017 Woodbury NY 11797 License#: BR-1418528	CONTACT NAME: PHONE (A/C, No, Ext): 800-767-7837 FAX (A/C, No): 516-487-0372 E-MAIL ADDRESS: request@sterlingrisk.com
INSURED United Consulting Engineers, Inc. 8440 Allison Pointe Blvd Suite 200 Indianapolis IN 46250 UNITCON-02	INSURER(S) AFFORDING COVERAGE / NAIC # INSURER A : Travelers Casualty and Surety Company of America 31194 INSURER B : INSURER C : INSURER D : INSURER E : INSURER F :

COVERAGES CERTIFICATE NUMBER: 1365319652 REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	COMMERCIAL GENERAL LIABILITY ☐ CLAIMS-MADE ☐ OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: ☐ POLICY ☐ PRO-JECT ☐ LOC ☐ OTHER						EACH OCCURRENCE $ DAMAGE TO RENTED PREMISES (Ea occurrence) $ MED EXP (Any one person) $ PERSONAL & ADV INJURY $ GENERAL AGGREGATE $ PRODUCTS - COMP/OP AGG $ $
	AUTOMOBILE LIABILITY ☐ ANY AUTO ☐ OWNED AUTOS ONLY ☐ SCHEDULED AUTOS ☐ HIRED AUTOS ONLY ☐ NON-OWNED AUTOS ONLY						COMBINED SINGLE LIMIT (Ea accident) $ BODILY INJURY (Per person) $ BODILY INJURY (Per accident) $ PROPERTY DAMAGE (Per accident) $ $
	☐ UMBRELLA LIAB ☐ OCCUR ☐ EXCESS LIAB ☐ CLAIMS-MADE ☐ DED ☐ RETENTION $						EACH OCCURRENCE $ AGGREGATE $ $
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y/N If yes, describe under DESCRIPTION OF OPERATIONS below	N/A					☐ PER STATUTE ☐ OTH-ER E.L. EACH ACCIDENT $ E.L. DISEASE - EA EMPLOYEE $ E.L. DISEASE - POLICY LIMIT $
A	Professional Liability			107663053	7/1/2023	10/1/2024	$3,000,000 $5,000,000 Limit each claim Aggregate

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
Waiver of Subrogation applies where required by previously written agreement

CERTIFICATE HOLDER	CANCELLATION
Speedway, Town of Speedway Municipal Center 5300 Crawfordsville Road Speedway IN 46224	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE

ACORD 25 (2016/03)

TOWN OF SPEEDWAY

CSO EXPANSION PLANNING AND DESIGN SERVICES

SUBMITTED: DECEMBER 1, 2023

AMERICAN STRUCTUREPOINT INC.

SECTION 1

COVER LETTER

AMERICAN STRUCTUREPOINT INC.

AMERICAN STRUCTUREPOINT
9025 River Road, Suite 200
Indianapolis, IN 46240
TEL: 317.547.5580

December 1, 2023

Town of Speedway
5300 Crawfordsville Rd
Speedway, IN 46224

Dear Selection Committee Members:

Thousands of customers across the Town of Speedway depend on you to provide our most essential resource on Earth—water. We sincerely value our relationship with Town of Speedway, which is why we want to be part of your continued growth and expansion. We have the expertise to collaborate with you to meet your goals. T**he American Structurepoint team has the extensive field and design experience to deliver the best wet weather solution focused on efficiency and reduced costs to the Town of Speedway.** Please consider the following details on why American Structurepoint will be the Prime Engineering firm to represent your project:

OUR UNDERSTANDING Our approach will focus on evaluating your preferred alternatives for compliance with your recent Agreed Order with IDEM. Our Team has direct experience working with IDEM on these types of projects, and we understand how critical good communication is, as well as identifying the solution that considers life cycle costs in addition to capital costs. During our cost estimates and alternative analysis, we will engage contractors to discuss potential cost saving measures in construction, overall constructability, and sequencing.

AVAILABLE TEAM Our team has a strong background in wastewater treatment and wet weather planning and design, which will allow us to work efficiently to meet your Agreed Order timeline. Customer satisfaction is always our priority, and American Structurepoint, including a dedicated project manager, will dedicate the necessary resources so that your project receives the time and attention it deserves.

WE KNOW YOU Our team understands your process, and understands how valuable early planning, collaboration, and communication will be. We will come prepared to share, answer questions, and collaborate with your team regarding feedback and suggestions for the preliminary engineering report, 30%, 60%, 90%, and 100% meetings. We will listen to your ideas and concerns and ask questions throughout the project to confirm understanding and gain concurrence. All deliverables will undergo our internal quality control/quality review process prior to submittal or presentation.

We look forward to exceeding your expectations on this project by bringing our vast experience in coordinating with IDEM, CSO projects, alternatives analysis, experience working with Speedway, and our ability to work efficiently and in good communication to maintain budget.

Sincerely,
American Structurepoint, Inc.

Karen Saavedra, PE, Assoc. DBIA
Project Manager

Will Lyon, PE
Vice President

SECTION 2

PROPOSED SCOPE & PRICE

SCOPE AND FEE

TOTAL ESTIMATED COST FOR BASE SERVICES BID

See below for our scope and fee to complete the preliminary engineering report.

After the preferred alternative has been selected, and approved by IDEM, our team will provide the full design and construction services contract and fees.

The Town of Speedway, Indiana (Owner) is planning to pursue State Revolving Loan Fund (SRF) money from the Indiana Finance Authority (IFA) to finance a combined sewer overflow Agreed Order project. The project is expected to include the following improvements:

1. Wet weather storage at or near the Speedway Wastewater Treatment Plant

This project will meet the requirements of the 2023 Agreed Order between IDEM and the Town in regard to overflows occurring at less than the 10-year, 1-hour storm event.

This project SRF loan involves preparation of a preliminary engineering report (PER) in order to obtain funding through the SRF program. The PER will be prepared in accordance with latest Preliminary Engineering Requirements for Wastewater SRF Projects Guidance Document.

PART 1 – BASIC SERVICES

Development of the Preliminary Engineering Report Task

A. The proposed services are outlined as follows:

1. Conduct a kickoff meeting with Owner. During the kickoff meeting, the following will be discussed:
    a. Project scope
    b. Communication protocol and contact
    c. Deliverable
    d. Schedule
2. Assist the Owner with preparation of an SRF Program Application for the proposed work to be funded under the State Revolving Loan Program.
3. Attend a pre-planning meeting with the Town and the Indiana Finance Authority (IFA)
4. Data Collection and Information Review
    a. The Engineer will conduct one workshop with the Owner's staff to gather information and their input on the projects. The workshop will be conducted in conjunction with the kickoff meeting. Review the collected information and determine needed additional information.

5. Develop the PER document according to the latest guidelines published by the Indiana Finance Authority. The following report sections will be fully developed:
    a. Executive Summary
    b. Chapter 1 – Current Conditions
    c. Chapter 2 – Utility Needs
    d. Chapter 3 – Evaluation of Alternatives
    e. Chapter 4 – Proposed Project
    f. Chapter 5 – Evaluation of Environmental Impacts
    g. Chapter 6 – Public Participation and Legal, Financial and Managerial Capability
6. As part of Chapter 3, evaluation of alternatives is for four (4) technically feasible alternatives, and will include for each alternative the capital cost, annual O&M cost, salvage value, present worth and net present worth cost estimates.
7. As part of Chapter 4, conduct a green project analysis to determine potential for development of a case for achieving the green project goals and receive a reduced interest rate. Complete requirements for green project reserve checklist and provide required supporting information.
8. As part of Chapter 5, perform environmental review documentation as required in the IFA PER Guidance, and perform an archaeological records check.
9. As part of development of Chapter 6, conduct a public hearing to discuss the proposed project. Provide all requirements detailed in the guidance document including meeting advertisement, agenda, meeting minutes. Respond to all written comments from the public and maintain an attendance record.
10. Coordinate appendices preparation, including resolutions, financial forms, design summary, and green project incentives.
11. Prepare a Fiscal Sustainability Plan (FSP) for the assets associated with the project. This includes providing required documentation to the IFA.
12. Prepare final draft PER and conduct a review meeting with Owner
13. Revise the PER in response to Owner's comments, as appropriate
14. Respond to one round of comments from IFA on PER

B. Engineer's services under the Study and Report Phase will be considered complete on the date when the PER has been submitted to IFA and, if applicable, Engineer has responded to one (1) round of comments from IFA.

C. Assumptions:

1. The Owner will provide the relevant information required to complete the PER.
2. The PER will be based upon the information that is received from the Owner.

D. Meetings

1. One kickoff meeting with Owner
2. One (1) workshop with the Owner's staff
3. One (1) public hearing
4. One (1) review meeting with the Owner.

E. Deliverables

1. Three (3) hard copies and one electronic copy of the draft PER
2. Three (3) hard copies and one electronic copy of the final PER

F. Schedule

The proposed work will be completed within 7 months after receiving Notice to Proceed (NTP). A breakdown of the preliminary schedule is as follows:

Kickoff meeting/workshop with Owner	Seven (7) days after NTP
Draft PER	6 months after kickoff meeting with Owner
Review meeting	Within seven (7) days after draft PER submittal
Final PER and IFA submittal	Within two (2) weeks after receipt of Owner's comments on the draft PER

G. Compensation

1. Owner shall pay Engineer for the Basic Services set forth above as follows:
    a. A Lump Sum amount of $85,000.
    b. The Lump Sum includes compensation for Engineer's services and services of Engineer's Consultants, if any. Appropriate amounts have been incorporated in the Lump Sum to account for labor, overhead, profit, and Reimbursable Expenses.
    c. The portion of the Lump Sum amount billed for Engineer's services will be based upon Engineer's estimate of the percentage of the total services actually completed during the billing period.

SECTION 3

QUALIFICATIONS, EXPERIENCE, AND REFERENCES

SIMILAR PROJECTS

WE'VE DONE THIS BEFORE

SOUTH BEND CSO EQ BASIN AT WWTP SOUTH BEND, INDIANA

The South Bend Wastewater Treatment Plant (WWTP) Combined Sewer Overflow (CSO) 045 Equalization (EQ) Basin project is in the final design stages in response to the City of South Bend's Consent Decree and Long-Term Control Plan (LTCP), which will require decreasing the frequency and magnitude of combined sewer overflows into the St. Joseph River. Starting in January of 2024, construction will begin using the design-build delivery method. One part of this effort will involve providing a new three-million-gallon EQ basin upstream of the WWTP to store peak combined sewer flows until after the wet weather event passes and the stored flow can be pumped to the WWTP for full treatment. The first step in this project will involve preparation of a preliminary engineering report (PER) to determine the project components, consider and recommend process equipment, identify and evaluate EQ basin alternatives, prepare an engineer's opinion of probable construction costs, and recommend the most reliable and cost-effective solution.

The next step in this project is design of the recommended infrastructure, which includes a diversion structure with automatically controlled weir gates and mechanical screens; 40 MGD EQ basin influent pump station; prestressed concrete EQ basin with cleaning system; control building; and new 48" and 96" sewers. American Structurepoint will prepare the project design consisting of City coordination, survey, permitting, and preparation of detailed plan sheets, technical specifications, quantities, and cost estimate. The project also involves a State Revolving Fund (SRF) application. The project will be delivered utilizing the alternative delivery method of a Guaranteed Savings Contract (GSC). American Structurepoint prepared the GSC solicitation, assisted the City with contractor selection, and worked in conjunction with the selected contractor to finalize the design in preparation for construction. **Construction will be starting in January 2024.**

SIMILAR PROJECTS

SPEEDWAY WASTEWATER TREATMENT PLANT REHABILITATION SPEEDWAY, INDIANA

American Structurepoint led the design to rehabilitate the Town of Speedway's wastewater treatment facility. The $4.8 million improvements included upgrading the PSA oxygen generation system, improving efficiency of the oxygen transfer system in the biological process (UNOX), structural repairs to the biological tank, adding blanket level detectors for the final clarifiers as a secondary control strategy, replacement of 50-year-old pipes and pumps that vibrate too much in the anaerobic digestion system, addition of a cake pump for the belt filter press system, and addition of a storage nitrification denitrification reactor (SNDR) for the anaerobically digested sludge to reduce the ammonia concentration in the filtrate. The PSA, UNOX, and SNDR projects are designed to resolve plant performance issues that resulted in an agreed order. The PSA and UNOX improvements are estimated to reduce power consumption by almost 40 percent due to high-efficiency motors, SCADA and control systems that will allow the main air compressor to unload when oxygen production is not required, and adjustable frequency drives on the mixers help to reduce power costs.

The SNDR process resulted in a more easily dewatered cake and requires less polymer to dewater. The savings in polymer and disposal alone yielded a predicted return on investment of 14 years. The SNDR process removes ammonia from the recycle stream, providing less ammonia for the biological process to convert to nitrate and thereby allowing the plant to reach compliance with the permit limits. Construction began in early 2011 and was completed in early 2012. The project was funded through a State Revolving Fund Loan. Although the preliminary engineering report was prepared by another consultant, American Structurepoint prepared the Greenpoint reserve business case regarding energy savings related to the improvements in the UNOX and SNDR processes. The business case resulted in a reduction of the interest rate when the loan closed.

SIMILAR PROJECTS

CITY OF NORWALK - WASHINGTON STREET CSO NO.1 NORWALK, OHIO

American Structurepoint has commenced with designing the next phase of the city of Norwalk, Ohio Combined Sewer Overflow (CSO) Program. This is in response to the City addressing the most significant element in their final projects defined in their EPA- approved Long Term Control Plan (LTCP), which is the elimination of CSO #1 on the city's west side and CSO #2 on the city's east side. The recommended improvements included installation of approximately 8,500 lft of 48-inch-diameter relief sewer to transport the peak wet weather flow to the city of Norwalk's Wastewater Treatment Plant (WWTP). This project included a cost/benefit analysis in the preliminary design phase to determine which construction method (tunneling vs. open cut) for the interceptor sewer would be the more beneficial to the City. The resulting decision had the least impact on the area residents while also controlling costs.

The WWTP is currently rated for 8 MGD peak treatment capacity. The preliminary and primary treatment processes were recently upgraded for a peak treatment capacity of 15 MGD, but the remaining processes (secondary biological treatment, tertiary filtration, and post treatment disinfection) remain in need of upgrades. American Structurepoint performed a study of the WWTP to determine the improvements needed to expand the secondary, tertiary, and post-treatment capacity from 8 MGD to 15 MGD. The study included evaluations for each unit process, including treatment performance, hydraulic analysis, capital costs, and operations and maintenance life cycle costs. Additionally, an expansion of the existing equalization basin at the WWTP will be needed to attenuate the peak flow that is in excess of the existing treatment capacity of the WWTP. **American Structurepoint is currently in design of the WWTP improvements.**

SIMILAR PROJECTS

CITY OF ELKHART, WATER SRF 2019 PROJECTS ELKHART, INDIANA

As part of their 2019 water state revolving fund (SRF) program, the City of Elkhart, Indiana, required a water main replacement on Lexington Avenue, a new equipment storage facility, a new wellfield generator, and an office design retrofit. The American Structurepoint team tackled this multi-faceted SRF project with efficiency.

The Lexington water main replacement extended along the south side of Lexington Avenue near the curb line. To minimize disruption to traffic, limit pavement restoration, and maintain clearances from existing utilities, the proposed water main was placed along the south side of Lexington, installing the proposed water main while keeping the existing water main in service. Additionally, pilot tube service lead installation saved project construction cost and disturbance to the road.

The City of Elkhart's Distribution Department had outgrown their existing storage building and desired to construct a new economical building to store more equipment and accommodate future equipment storage needs. The design team provided all-inclusive professional services including survey, geotechnical, civil, architectural, structural, electrical, plumbing, and mechanical.

The North Wellfield required a new generator and the American Structurepoint design team prepared the design of the generator, motor control center, and operations plan.

Finally, the American Structurepoint team designed the proposed renovation project for a 1,500-sft portion of the Department of Public Works and Utilities 7,750-sft building to accommodate more staff in an open office concept.

Our design team worked proactively with the Indiana Finance Authority to complete the required documents for the SRF loan, allowing the program to remain on schedule. Our competent team was prepared to start writing the required sections in the first week of work on the contract, submitting the preliminary engineering report (PER) within six weeks of the notice to proceed. Our unique staffing structure allowed individual projects to be assigned to several design teams. These teams utilized distinct expertise for the specific projects and worked on a parallel schedule to meet the City's desired completion date.

SIMILAR PROJECTS

TERRE HAUTE CSO LTCP INTERCEPTOR STUDY AND DESIGN
TERRE HAUTE, INDIANA

American Structurepoint was selected to study the alignment of the CSO Interceptor in Terre Haute, Indiana as part of their long-term control plan. After the study phase, our team moved into design. The design includes a 78" sewer installed via microtunnel. This parallel interceptor sewer is approximately 7,000 linear feet and discharges into a pump station. The sewer will capture the CSOs along its route and acts as a relief sewer. Flows in excess of the parallel sewer will be stored in two, one-million gallon storage tanks. The project also includes floatables control on the existing CSO outfall that will remain.

ADVANCE FACILITY PLANNING BEE SLOUGH / EAST WWTP
EVANSVILLE, INDIANA

The City of Evansville developed an Integrated CSO Overflow Control Plan. The early primary focus of the plan involved addressing the highest volume discharges. This project included development of a preliminary engineering report and 20-percent design drawings for two initiatives. The East WWTP secondary treatment capacity is to be expanded from 28 MGD to 40 MGD for wet weather flow. In addition, a CSO treatment/retention facility was evaluated. The treatment plant expansion planning includes hydraulic and process modeling and evaluation of alternatives for capacity expansion of secondary treatment, disinfection, flow monitoring, and site piping. The CSO treatment facility included hydraulic and process evaluation, including sizing, siting, screening and disinfection analysis, conveyance piping, flushing gates, pumping for dewatering, pile foundation, and cast-in-place concrete design. All alternative reviews include opinions of probable construction costs, as well as lifecycle cost analysis.

SIMILAR PROJECTS

PORTAGE WASTEWATER TREATMENT PLANT BIOSOLIDS IMPROVEMENTS
PORTAGE, INDIANA

American Structurepoint provided preliminary and final design plans, along with construction inspection, for a new biosolids handling facility at the City's Water Reclamation Facility (WRF). These improvements eliminated an existing capacity restriction in the WRF by expanding and improving the biosolids thickening system utilizing a gravity belt thickener to thicken the waste activated sludge (WAS) before aerobic digestion with the associated building, pumps, piping, electrical and instrumentation, and controls. We also designed a new biosolids drying pad with associated piping and electrical; associated improvements to the digester aeration system, diffusers, and blowers to accommodate thicker sludge; new WAS pumps; and site improvements including a new access road to the new biosolids drying pad. The drying pad was located on organic soils and required the use of rammed aggregate piers to support and stabilize the 220' x 220' concrete slab.

GERRARD AND ALLISON STORM RELIEF
SPEEDWAY, INDIANA

This project included the design and construction inspection of storm sewer infrastructure in two large residential areas in the town that experienced flooding during significant rain events. In addition, this project eliminated the combined sewers in these neighborhoods and was considered an early-action project for the town in implementing their long-term control plan to eliminate combined sewer overflows at the town's wastewater treatment plant. This project improved the storm drainage system to collect and convey a 10-year/1-hour design storm. Value engineering in the preliminary engineering phase yielded an estimated $1 million in cost savings through evaluation and revisions to the originally proposed route. American Structurepoint designed a new storm sewer system to remove the stormwater from the combined/sanitary sewer system to reduce CSOs and reduce flooding. The constructed storm drainage system included the installation of new storm sewers used in tandem with the existing storm sewers by providing cross connections at strategic locations. A 55 cfs (35 mgd) stormwater treatment system was installed to remove floatables from storm flow, and a 500,000-gallon underground storage retention system was constructed to attenuate storm flow to the receiving stream. American Structurepoint also prepared preliminary engineering reports to qualify for a Community Development Block Grant and an SRF loan.

IDEM CSO PROJECTS

IDEM EXPERIENCE

LAWRENCE UTILITIES 2021 EPA ASSISTANCE LAWRENCE, INDIANA

The City of Lawrence is under an Agreed Order with the Environmental Protection Agency (EPA) to reduce sanitary sewer overflows. American Structurepoint was chosen to work with the City of Lawrence to negotiate the terms of the Agreed Order with EPA, and then carry out the tasks outlined in the Order. was to update the City's Capacity, Management, Operation and Maintenance (CMOM) manual. Next, 15 flow meters were installed throughout the City and data collected for 5-months, which was used to recalibrate the City's existing sanitary sewer model, specifically focusing on areas where recurring sanitary sewer overflows (SSOs) are occurring. The recalibration effort was documented in a thorough Hydraulic and Hydrologic (H&H) report, that was reviewed and approved by the EPA. After the sewer model calibration was approved, our Team began coming up with solutions to eliminate the SSOs within the City of Lawrence, checking downstream conditions for all solutions. The SSO Action Plan report, which will include alternatives analysis, cost estimates, and construction timelines is due to the EPA in February 2024.

KOKOMO LTCP ADDENDUM NO. 2 AND RATE ANALYSIS KOKOMO, INDIANA

American Structurepoint provided planning, design, and construction services to reduce combined sewer overflows (CSOs) in the northeast section of Kokomo. One of the projects developed from the LTCP update was the CSO 041 Sewer Separation, which was originally scheduled for completion by the end of 2014. However, this project impacted the development of future LTCP projects and therefore American Structurepoint completed the complex project design in just over two months. CSO 041 consists of an interconnection between an 84-inch combined sewer and a 96-inch storm sewer.

The design actually consisted of two separation projects: installation of 42-inch storm sewer to eliminate storm flows entering the existing 84-inch combined sewer as well as separation of the 96-inch storm sewer from the 84-inch combined sewer using inverted siphons. The siphon design included the installation of two siphon structures that utilize one 30-inch and two 63-inch siphon pipes to convey a design storm as large as 250 MGD underneath the existing 84-inch combined sewer. American Structurepoint used creative design and construction methods as well as innovative project sequencing to eliminate the need for significant bypassing of storm flows. The creative design allowed for construction of the siphon and appurtenances on a small residential site as well as significant cost savings during the construction phase including an estimated $2 million in bypassing costs alone. A preliminary engineering report was completed to get the SRF loan.

REFERENCES

RELATIONSHIPS THAT LAST

Our firm understands that happy clients become repeat clients.

Since our founding in 1966, more than 1,400 clients have hired American Structurepoint at least two or more times. On average a client repeatedly hires our firm to complete at least seven projects. This high percentage of repeat business could not be possible without our unyielding commitment to communication, customer satisfaction, and quality design and consulting services.

The references shared below best align with the anticipated scope of services for your contract. We invite you to contact any of these references, while our team is also pleased to provide additional regional contacts if desired:

CITY OF LAWRENCE
Scott Salsbery, PE
Superintendent
EMAIL: ssalsbery@cityoflawrence.org
TEL: (317) 377-6000

CITY OF SOUTH BEND
Eric Horvath, PE
Executive Director
EMAIL: ehorvath@southbendin.gov
TEL: (574) 235-9251

CITIZENS ENERGY GROUP
Mike Latos
Project Manager
EMAIL: mlatos@citizensenergygroup.com
TEL: (317) 429-3978

SECTION 4

PROPOSER'S TEAM

ORGANIZATIONAL CHART

YOUR INDUSTRY LEADING TEAM

PRELIMINARY ENGINEERING REPORT ORGANIZATIONAL CHART

TOWN OF SPEEDWAY

POINT PERSON
PROJECT MANAGER
KAREN SAAVEDRA, PE, ASSOC. DBIA

TECHNICAL ADVISOR
DAVID MOHLER, PE

PROJECT TEAM

SENIOR ENGINEER
Bob Henricksen, PE

PROJECT ENGINEER
John Judge, PE

STAFF ENGINEER
Clara Almeter, EI

DESIGN PHASE ORGANIZATIONAL CHART

TOWN OF SPEEDWAY

POINT PERSON
PROJECT MANAGER
KAREN SAAVEDRA, PE, ASSOC. DBIA

TECHNICAL ADVISOR
DAVID MOHLER, PE

PROJECT TEAM

SENIOR ENGINEER
Bob Henricksen, PE

PROJECT ENGINEER
John Judge, PE

STAFF ENGINEER
Clara Almeter, EI

DESIGN PHASE

AMERICAN STRUCTUREPOINT SERVICES *(as needed)*
CIVIL ENGINEERING
STRUCTURAL ENGINEERING
ENVIRONMENTAL
SURVEY

SUBCONSULTANTS
Electrical Engineer *(as needed)*
Geotechnical Engineer *(as needed)*

PROJECT TEAM

KAREN SAAVEDRA, PE, ASSOC. DBIA

PROJECT MANAGER

As an experienced project manager, Karen's duties include managing staff, coordinating between disciplines, tracking financials and deadlines, ensuring the design meets the client's expectations and that quality reviews are completed. She is regularly involved in the design and evaluation of wastewater underground infrastructure and treatment facilities. Other assignments include wastewater process computer modeling, preparation of planning/feasibility reports, permit packages, technical specifications, and layout of maps and plan sheets utilizing ArcGIS and AutoCAD. Karen also provides management and design on other project tasks, including cost estimating, bidding, and construction administration.

EDUCATION

Master of Science, Environmental Engineering, University of Notre Dame
Bachelor of Science, Environmental Engineering, University of Miami

LICENSE AND CERTIFICATIONS

Professional Engineer - Indiana, Kentucky, Ohio
DBIA Design-Build Professional
NASSCO Manhole Assessment - Indiana
NASSCO Lateral Assessment - Indiana
NASSCO Pipeline Assessment - Indiana
CSI Construction Documents Technologist

LAWRENCE UTILITIES 2021 EPA ASSISTANCE LAWRENCE, INDIANA

PROJECT MANAGER The City of Lawrence is under an Agreed Order with the Environmental Protection Agency (EPA) to reduce sanitary sewer overflows. American Structurepoint was chosen to work with the City of Lawrence to negotiate the terms of the Agreed Order with EPA, and then carry out the tasks outlined in the Order. was to update the City's Capacity, Management, Operation and Maintenance (CMOM) manual. Next, 15 flow meters were installed throughout the City and data collected for 5-months, which was used to recalibrate the City's existing sanitary sewer model, specifically focusing on areas where recurring sanitary sewer overflows (SSOs) are occurring. The recalibration effort was documented in a thorough Hydraulic and Hydrologic (H&H) report, that was reviewed and approved by the EPA. After the sewer model calibration was approved, our Team began coming up with solutions to eliminate the SSOs within the City of Lawrence, checking downstream conditions for all solutions. The SSO Action Plan report, which will include alternatives analysis, cost estimates, and construction timelines is due to the EPA in February 2024. Karen serves as the project manager. She holds regular meetings with the City and EPA to maintain project communication and schedule.

KOKOMO LTCP AND RATE ANALYSIS KOKOMO, INDIANA

PROJECT ENGINEER American Structurepoint provided planning, design, and construction services to reduce combined sewer overflows (CSOs) in the northeast section of Kokomo. One of the projects developed was the CSO 041 Sewer Separation, which was scheduled for completion by the end of 2014. Karen assisted in design and construction management. She also presented this project at the 2013 Indiana Water Environment Association Conference and the 2014 WEF Collection Systems Specialty Conference.

PORTAGE WASTEWATER TREATMENT PLANT BIOSOLIDS IMPROVEMENTS PORTAGE, INDIANA

PROJECT MANAGER Karen was responsible for managing the wastewater treatment plant biosolids improvements from bidding through construction. She coordinated with the contractor and owner as well as the financing company. Karen helped the client navigate through changed site conditions to find the most cost-effective change order solution that met the project needs.

PROJECT TEAM

DAVID MOHLER, PE

TECHNICAL ADVISOR

David is a vice president and practice leader in charge of American Structurepoint's Utility Infrastructure Group. As a professional, LEED-accredited engineer with 20 years of experience, he has been involved with the planning, design, and implementation of numerous sanitary sewer, combined sewer, stormwater, and potable water projects. David also has served as principal/project manager in designing and implementing projects that include combined sewer separation, storage, conveyance, and treatment.

EDUCATION

Bachelor of Science, Civil Engineering, Purdue University

LICENSE AND CERTIFICATIONS

Professional Engineer - Indiana

HCRSD WASTEWATER TREATMENT PLANT EXPANSION DESIGN-BUILD
AVON, INDIANA

PRINCIPAL David served as principal for this 1.75 MGD wastewater treatment plant (WWTP) expansion. The project was delivered via progressive design-build.

PORTAGE WASTEWATER TREATMENT PLANT BIOSOLIDS IMPROVEMENTS
PORTAGE, INDIANA

PRINCIPAL David was the principal for this wastewater treatment plant biosolids improvements from bidding through construction.

AQUA ABOITE MASTER PLAN UPDATE,
FORT WAYNE, INDIANA

PRINCIPAL David was the principal for this 5-year collection system master plan update for Aqua Indiana's Aboite Division. The Aboite Division has 36 lift stations and approximately 200 miles of gravity sewer.

WWTP HEADWORKS UPGRADE SPEEDWAY, INDIANA

PRINCIPAL As Principal, David worked with the Town of Speedway to evaluate several headworks screen options that could operate and physically fit within the existing influent channel and hydraulic profile of the plant.

ZIONSVILLE WASTEWATER CAPACITY EVALUATION ZIONSVILLE INDIANA

PRINCIPAL David was the principal for this capacity evaluation of the Town's wastewater system that helped update the sanitary sewer and treatment plant master plans. As part of the evaluation, American Structurepoint evaluated the collection system capacity; developed existing wastewater treatment assets; evaluated the wastewater treatment facility capacity; and evaluated potential areas for expansion on the existing treatment plant site.

AQUA WHU WWTP BASIS OF DESIGN REPORT HANCOCK COUNTY INDIANA

PRINCIPAL David was the principal for this basis of design report for the Aqua Indiana Aboite Division in Allen County, Indiana. Our team reviewed potential expansion options, collected, and reviewed applicable drawings, determined the proposed loadings for the plant, and recommended alternatives and life cycle analysis on how to expand the plant.

PROJECT TEAM

BOB HENRICKSEN, PE

SENIOR ENGINEER – HYDRAULICS

Bob is involved with the planning, preparation, and design of projects directly impacting surface water quality. Projects include new sanitary collection and transmission systems, water and wastewater treatment plant projects, storm sewer planning and design, and identification of and design of infiltration and inflow reduction measures. Bob has considerable experience regarding hydraulic design including multiple pumping projects, as well as design of hydraulic components of water and wastewater treatment plants. He has regular client contact; is involved in local, state, and federal agencies regarding regulations and permits; has conducted public hearings and project presentations; and performs construction administration.

EDUCATION

Bachelor of Science, Civil Engineering,
North Carolina State University

LICENSE AND CERTIFICATIONS

Professional Engineer - Indiana
OSHA Confined Space Entry Non-Entry Rescue

HCRSD WASTEWATER TREATMENT PLANT EXPANSION DESIGN-BUILD AVON, INDIANA

SENIOR PROJECT ENGINEER Bob served as senior project engineer for this project focusing on the hydraulic components of the design.

NOBLESVILLE WWTP PHOSPHORUS REMOVAL AND AERATION IMPROVEMENTS
NOBLESVILLE, INDIANA

QA/QC Bob performed a site-specific process optimization program to develop design criteria for the recommended biological phosphorus removal (Bio-P) process at the 10 MGD City of Noblesville WWTP.

CITY OF NORWALK CSO NO. 1, NORWALK, OHIO

SENIOR PROJECT ENGINEER Bob was the senior project engineer for this elimination of CSO #1 on the city's west side and CSO #2 on the city's east side.

LS2 UPGRADES STUDY AND DESIGN
NOBLESVILLE, INDIANA

PROJECT MANAGER & LEAD DESIGN ENGINEER Bob was the project manager and lead designer for this replacement lift station for LS2 to increase the capacity from 6 MGD to 19 MGD.

AQUA OHIO STRUTHERS DIVISION WATER TREATMENT PLANT UPGRADE DESIGN-BUILD
POLAND, OHIO

SENIOR PROJECT ENGINEER Bob served as senior project engineer for several portions of the design, including influent hydraulics, flow splitter box, clarifiers design, lime sludge handling, and miscellaneous hydraulic and pumping designs.

NOBLESVILLE WWTP STUDY
NOBLESVILLE, INDIANA

SENIOR PROJECT ENGINEER American Structurepoint provided design, bid, and construction services for upgrade of the Noblesville Wastewater Treatment Plant to include a biological phosphorus removal treatment process. Phosphorus removal is mandated by their new NPDES permit.

SOUTH BEND CSO EQ BASIN AT WWTP,
SOUTH BEND, INDIANA

SENIOR PROJECT ENGINEER Bob was the Senior Project Engineer for this South Bend Wastewater Treatment Plant (WWTP) Combined Sewer Overflow (CSO) 045 Equalization (EQ) Basin project was completed in response to the City of South Bend's Consent Decree and Long Term Control Plan (LTCP), which required decreasing the frequency and magnitude of combined sewer overflows into the St. Joseph River.

PROJECT TEAM

JOHN JUDGE, PE

PROJECT ENGINEER

John is a member of the Utility Infrastructure Group in the Indianapolis office at American Structurepoint. His responsibilities include evaluation and design of water, wastewater, and stormwater systems. Other assignments include preparation of planning/feasibility reports, preparation of technical specifications, and cost estimating.

EDUCATION

Bachelor of Science, Environmental Engineering, University of Notre Dame

LICENSE AND CERTIFICATIONS

Professional Engineer - Indiana
NASSCO Manhole Assessment
NASSCO Lateral Assessment
NASSCO Pipeline Assessment
OSHA 10 Hour Training-Construction - Indiana

LAWRENCE UTILITIES 2021 EPA ASSISTANCE LAWRENCE, INDIANA

STAFF ENGINEER The City of Lawrence is under an Agreed Order with the Environmental Protection Agency (EPA) to reduce sanitary sewer overflows. American Structurepoint was chosen to work with the City of Lawrence to negotiate the terms of the Agreed Order with EPA, and then carry out the tasks outlined in the Order. was to update the City's Capacity, Management, Operation and Maintenance (CMOM) manual. Next, 15 flow meters were installed throughout the City and data collected for 5-months, which was used to recalibrate the City's existing sanitary sewer model, specifically focusing on areas where recurring sanitary sewer overflows (SSOs) are occurring. John is the project engineer completing the reports, alternatives analysis and cost estimating for the project.

HCRSD WASTEWATER TREATMENT PLANT EXPANSION DESIGN-BUILD AVON, INDIANA

STAFF ENGINEER John was responsible for chemical storage design, specifications, site layout, and submittal review. He assisted with hydraulic modeling, drawing creation, and specifications on this project.

SOUTH BEND CSO EQ BASIN AT WWTP, SOUTH BEND, INDIANA

STAFF ENGINEER Bob was the Senior Project Engineer for this South Bend Wastewater Treatment Plant (WWTP) Combined Sewer Overflow (CSO) 045 Equalization (EQ) Basin project was completed in response to the City of South Bend's Consent Decree and Long Term Control Plan (LTCP), which required decreasing the frequency and magnitude of combined sewer overflows into the St. Joseph River.

LS2 UPGRADES STUDY AND DESIGN NOBLESVILLE, INDIANA

STAFF ENGINEER American Structurepoint designed a replacement lift station for LS2 to increase the capacity from 6 MGD to 19 MGD.

PORTAGE WASTEWATER TREATMENT PLANT BIOSOLIDS IMPROVEMENTS PORTAGE, INDIANA

STAFF ENGINEER American Structurepoint provided preliminary and final design plans, along with construction inspection, for a new biosolids handling facility at the City's Water Reclamation Facility (WRF).

PROJECT TEAM

CLARA ALMETER, EI

STAFF ENGINEER

Clara's responsibilities include utility coordination, collection system design and evaluation assistance, pump station design and evaluation assistance, as well as plan and submittal review. Clara has specialized training in the inspection and assessment of pipelines, laterals, and manholes, as well as experience with the Exactix 811 design ticket and inquiry tool for utility coordination.

EDUCATION

Bachelor of Science, Environmental Engineering, Gannon University, 2022

LICENSE AND CERTIFICATIONS

Engineer Intern - Indiana

IEDC LEAP LARGE DIA- PHASE 1 PRELIMINARY ENGINEERING REPORT
BOONE COUNTY, INDIANA

STAFF ENGINEER American Structurepoint was selected for the Citizens Energy Group new large diameter extension to Boone County, Indiana, as part of the new LEAP development.

CBU FULLERTON PIKE PHASE 3
BLOOMINGTON, INDIANA

STAFF ENGINEER This project involved the relocation of water main and sanitary sewer as a result of a road reconstruction project involving a round-about installation and bridge widening. The relocations included approximately 1,000 lineal feet of sanitary sewer from 8-inch to 12-inch, and 1,500 lineal feet of water main from 8-inch to 24-inch. A portion of the 24-inch water main relocation requires jack and boring underneath an existing creek.

CITIZENS ENERGY LS 360 AND FORCE MAIN DESIGN-BUILD INDIANAPOLIS, INDIANA

STAFF ENGINEER American Structurepoint designed a lift station and force main for Citizens to expand its sanitary sewer network to serve current and future development in Shelby County. This project was delivered in a design build effort with Bowen Engineering on a compressed schedule to meet the needs of current development. To that end, American Structurepoint accelerated design to allow pump and pipe pre-procurement while survey was starting at the beginning of design. The design uses dual force mains each with a length of greater than 13,000 feet so that the same two pumps can be utilized over the entire life of the lift station over a wide range of flows. The project also included American Structurepoint providing land acquisition services to assist with the challenges inherent with acquiring private property for the 20+ force main easements required on the compressed schedule. American Structurepoint's experience on this project provides Citizens Energy Group with valuable lessons learned regarding preprocurement of material and acceleration of land acquisition to meet a compressed project schedule.

SR 32 WESTFIELD WATER MAIN RELOCATION INDIANAPOLIS, INDIANA

STAFF ENGINEER American Structurepoint was selected to complete the new relocation of the SR32 water main in Westfield, Indiana as part of the SR 32 Road Widening project with the Indiana Department of Transportation.

SECTION 5

PAST PERFORMANCE

PAST PERFORMANCE

CAPABILITY TO PROVIDE RESPONSIVE PROFESSIONAL SERVICE

CONFLICT RESOLUTION PERFORMANCE

If there is a conflict that rises, the best strategy to tackle it is to handle it swiftly with action. Communication is key to solving project issues, whether its on the design side, or a disagreement with the project owner, American Structurepoint is dedicated to have flawless communication. **Karen Saavedra, our Project Manager, will swiftly deal with conflicts that arise in a timely manner.**

DAILY

Daily team huddles provide discussion on all project tasks, challenges, milestones, and action items.

PARTICIPANTS: Karen Saavedra, Design Team Leads, Design Staff

WEEKLY

Updates to keep the project manager informed on all project tasks, challenges, milestones, action items, and coordination of project components and discipline leads.

PARTICIPANTS: Karen Saavedra, Design Team Leads

MONTHLY

American Structurepoint project managers provide monthly updates to Speedway with overall project development, schedule milestones, and status updates on any challenges.

PARTICIPANTS: Karen Saavedra, David Mohler, Speedway Project Managers, Design Team Leads (As Needed)

HISTORY OF MEETING DEADLINES

American Structurepoint prides ourselves in turning deliverables in early, on-time, and with precision. If there is an issue with meeting deadlines, then we are holding our own standards. **As a firm, we promptly submit our deliverables on-time for each and every project.**

78 PROJECTS COMPLETED TOGETHER

18+ YEARS OF WORKING TOGETHER

OVER 20 DIFFERENT WATER/UTILITY IMPROVEMENT PROJECTS:
WASTEWATER, WATERMAIN, GIS, AND CIPP

CIVIL TOWN OF SPEEDWAY

5300 Crawfordsville Road
Speedway, Indiana 46224-5406

January 22, 2023

Ms. Anita Bjork
Office Manager
Indianapolis Metropolitan Planning Organization (IMPO)
200 E. Washington Street
Indianapolis, IN 46204

RE: 2024 IMPO Voting Membership Updates – Policy and Technical Committees

Dear Ms. Bjork,

For the Town of Speedway, Indiana, the voting member for the Indianapolis Metropolitan Planning Organization Policy Committee is Town Manager Grant Kleinhenz (gkleinhenz@speedwayin.gov phone 317-371-4705) and proxy is Town Council President Jason DeLisle (jdelisle@speedwayin.gov) and the voting member for the Indianapolis Metropolitan Planning Organization Technical Committee is Street Commissioner Rob Wetnight (rwetnight@speedwayin.gov phone 317-557-4380) and proxy is Assistant Street Commissioner Jared Sutton (jsutton@speedwayin.gov).

Please let me know if there are any questions. Thank you.

Sincerely,

Grant A. Kleinhenz, ICMA-CM
Town Manager

CC: Town Councilors
Rob Wetnight, Street Commissioner
Jared Sutton, Assistant Street Commissioner