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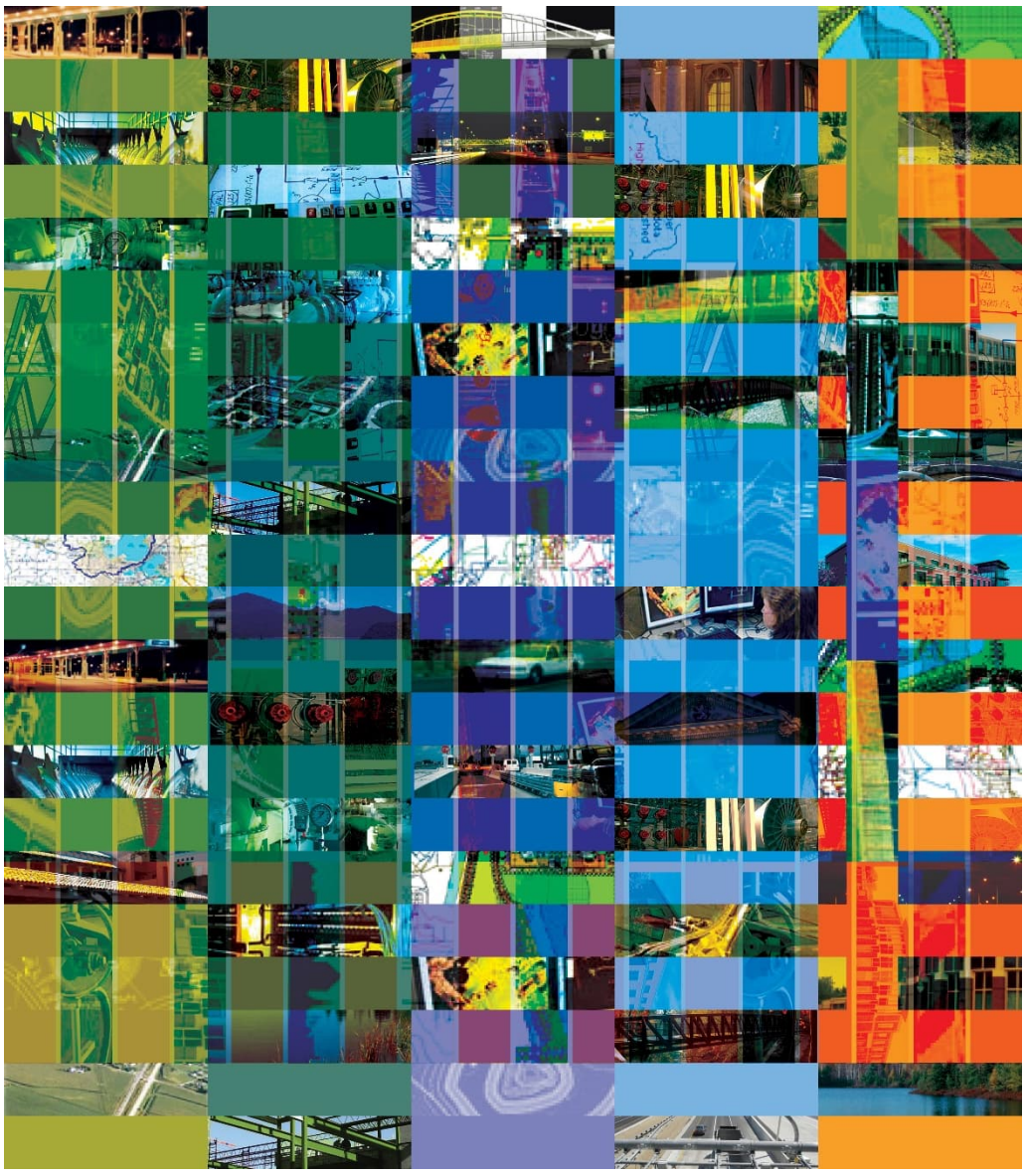

Proposal

City of
Whitewater, WI

September 25, 2025

STRAND
ASSOCIATES®

STRAND ASSOCIATES®
Excellence in Engineering℠

Strand Associates, Inc.®
910 West Wingra Drive
Madison, WI 53715
(P) 608.251.4843
www.strand.com

September 25, 2025

Mr. Brad Marquardt
Department of Public Works Director
City of Whitewater
312 W. Whitewater Street
Whitewater, WI 53190

Re: Request for Proposals (RFP) – Municipal Engineering Services

Dear Brad,

On behalf of Strand Associates, Inc.®, thank you for the opportunity to submit our proposal to the City of Whitewater for Municipal Engineering Services. We look forward to continuing to serve the City. If selected to continue serving in our current role, we will continue to make the following commitments:

- **Provide a diverse staff with creative ideas and solutions to City issues.**
- **Make clear and concise communication a priority on all projects.**
- **Provide up-to-date project budgeting and cost estimating.**
- **Provide high-quality engineering projects resulting in low construction change orders.**
- **Be an extension of the City's staff and a reliable resource.**
- **Help the community grow and prosper through forward-thinking projects.**

We have been providing civil and municipal engineering services as a firm since 1946. We have been providing multidisciplinary engineering services to the City of Whitewater since 1992. Our diverse expertise has the capability to provide many different services to the City, including municipal/civil, stormwater, structural, electrical, surveying, wastewater, water supply, transportation, and building facilities engineering. We also bring value to clients through assistance in obtaining grants and other funding opportunities. With more than 230 staff based in our Madison headquarters, we have the resources to meet the City's engineering needs under one roof.

We are committed to nurturing long-term client relationships and providing the most efficient and economic means to attain the City's engineering goals. Our *client first* philosophy means we make the interests of the City a top priority. Specifically, our team will continue to serve Whitewater as a top priority, focusing on the responsiveness that a client with the tenure of Whitewater deserves.

The relationships we have developed with our Wisconsin municipal clients and numerous federal, state, and local agencies show that we endeavor to be more than a consulting engineer. We strive to be a partner – willing and ready to assist on a wide range of associated items. It is this type of partnership that allows us to do what we do best: *high quality, thorough engineering*. Our vigorous commitment to these ideals will meet the City's goals and objectives for engineering services.

Again, thank you for this opportunity. If we can provide additional information, please feel free to call.

STRAND ASSOCIATES, INC.®

Andrew B. Constant, P.E.
Primary Municipal Engineer

Mark A. Fisher, P.E.
Quality Control Engineer

P250.801/MAF:mah

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Firm History

Seventy-Nine Years of Service Signifies Organizational Strength and Commitment to Quality

We have been providing exceptional civil and environmental engineering services to clients since 1946. We attribute our **organizational strength to our talented engineers, effective management, and, most of all, commitment to nurturing** long-term client relationships. Our Corporate Mission states that we are "dedicated to helping clients succeed through excellence in engineering." In accordance with this mission, we are continually expanding our staff and service offerings to broaden our base of experience and knowledge so that we can provide more creative and comprehensive solutions to meet the continually evolving needs of each client.

Our areas of specialization include civil and municipal engineering; stormwater management; water supply engineering; wastewater treatment and conveyance engineering; transportation engineering; electrical and heating, ventilation, and air conditioning (HVAC) engineering; building/facility engineering, architecture, and sustainable design; aviation; natural gas distribution; wetland mitigation and restoration; ecosystem study and restoration; geographic information systems (GIS) and mapping; surveying and right-of-way acquisition; land development; construction-related services; and financial assistance services.

Corporate office in Madison, Wisconsin.

To serve our national client base efficiently, we have multiple offices throughout the country, including Madison and Milwaukee, Wisconsin; Columbus, Indiana; Columbus and Cincinnati, Ohio; Joliet, Illinois; Lexington and Louisville, Kentucky; Phoenix, Arizona; Brenham, Texas; Ames, Iowa; and Nashville, Tennessee.

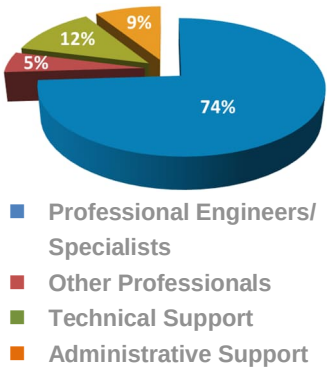
Reliable Consulting Service Has Cultivated Long-Standing Client Relationships

Clients rely on us as a partner in addressing their engineering and science needs. We have developed and continue to maintain long-standing affiliations, many extending into several decades of service. Our service is flexible and tailored to the unique needs of each client. For some, we serve as appointed engineers and are active committee members; for others, we serve as specialty consultants to their in-house staff on an as-needed basis.

We understand the value clients place on *consistency* of personnel, *continuity* in project development, and *responsiveness* to questions or concerns. Accordingly, we expend every effort to make sure that the team initially chosen is involved with a project from beginning to end, and that project inquiries are handled promptly and thoroughly.

Dedicated, Results-Oriented Staff Yields High Level of Service to Clients

Clients find reassurance in the fact that each of our engineers is supported by the expertise of a multidisciplined engineering firm. This approach enables use of all our resources while maintaining the personal involvement associated with a single point of contact – a person trained to assist through plan development, design, and implementation.



Our expert staff of more than 500 embody the academic backgrounds and experience of all disciplines normally necessary to complete a project successfully. More than 70 colleges and universities are represented on our staff. Our engineers average more than 11 years of experience and the majority are licensed or have advanced degrees. We are managed by our active engineering staff.

Long History of Engineering with the City of Whitewater Provides Integral Knowledge of Key Systems and Demonstrates True Partnership

The RFP identified engineering services the City may need assistance with in the future. As a full-service engineering firm, we have the resources to provide all the services identified with our in-house staff. We routinely provide these engineering services to municipalities throughout Wisconsin. More importantly, we have had the honor and privilege of providing these engineering services to the City of Whitewater since 1992. The following elaborates on our history and most recent projects with the City in each of the identified areas, and a few additional areas.

Streets

We have assisted the City with many miles of street reconstruction and construction of new streets. Our street reconstruction projects have included Starin Road through the University of Wisconsin (UW)-Whitewater campus, Milwaukee Street, and the Downtown East Gateway. Most recently, we completed street reconstruction projects on East Main Street, Fremont Street and Ann Street, North Fremont Street, and Walworth Avenue. Our projects with new streets have included the Whitewater Business Park, the Whitewater Technology Park, Bluff Road, and the Starin Road extension between Fremont Street and Newcomb Street. We worked closely with local officials and stakeholders to identify critical design criteria, including street widths, pedestrian accommodations, and bicycle accommodations as well as to understand community activities and events for purposes of construction staging and scheduling.

Fremont Street reconstruction project.

In addition to street construction projects, we have assisted the City with preparation of contract documents for street maintenance projects, including mill and overlay, chip seal, and crack filling. We have also assisted with traffic counts, traffic studies, roundabout design, and traffic signal design and modifications.

Water

We have assisted with several important water system improvements over the years, including design and construction of many miles of water main replacement and extensions, the Well No. 9 facility south of the Highway 12 bypass, the Southwest Elevated tank, and the recently completed Water Utility vehicle storage garage. We recently worked with the City on an important effort to eliminate lead water service lines in the city. We are also beginning a Wisconsin Department of Natural Resources (WDNR) required water supply service area plan that will include an update of the *2017 Water System Study*.

Well No. 9 and the Southwest Elevated Tank.

Wastewater

Our staff has worked with the City's wastewater staff on many projects. Projects completed at the wastewater treatment facility include various studies, planning efforts, and improvement and maintenance projects. We are currently assisting with the installation of a fourth return activated sludge (RAS) pump.

We have also completed extensive projects in the City's sanitary sewer collection system. In addition to sanitary sewer replacement associated with street reconstruction projects, we have assisted with interceptor design and construction between the wastewater treatment plant influent sewer and the Bluff Road area. We have designed four new wastewater pumping stations for the City, including the recently completed Vanderlip Pumping Station. Through strategic planning and project sequencing, we have assisted the City with elimination of four wastewater pumping stations, including the most recent abandonment of the Fraternity Lane pumping station. The abandonment of pumping stations, where feasible, not only reduces on-going operation and maintenance costs but also improves system reliability.

Vanderlip Pumping Station.

Stormwater Management

Over the past several decades, stormwater management has become a mandate for the City. We have assisted with stormwater studies, stormwater quality management plans, facility design and maintenance, stormwater ordinance development and updates, and creation of the Stormwater Utility. We have designed streambank stabilization projects and 11 of the city's stormwater management basins. Our creative design approach was used to meet stormwater management requirements on the recent East Main Street project by using curb cuts and a grass swale along the railroad right of way. This approach avoided acquisition of property for construction of a stormwater management facility. We are currently completing an update to the City's stormwater quality management plan and designing the first underground stormwater detention basin in the city, in Starin Park.

Curb cut and grass swale on East Main Street.

Storm Sewers

We have completed many storm sewer projects as part of routine street reconstruction projects. In 2001, as part of the Starin Road reconstruction project, we designed storm sewer infrastructure with a 100-year storm capacity to alleviate routine flooding on the UW-Whitewater campus. We also completed a storm sewer project on Ann Street and Franklin Street to alleviate flooding on Whitewater Street near Home Lumber. Most recently, in advance of the Walworth Avenue reconstruction project, we completed a storm sewer and drainageway project to alleviate flooding in the Douglas Court area.

Recently completed Walworth Avenue reconstruction project.

Sidewalks

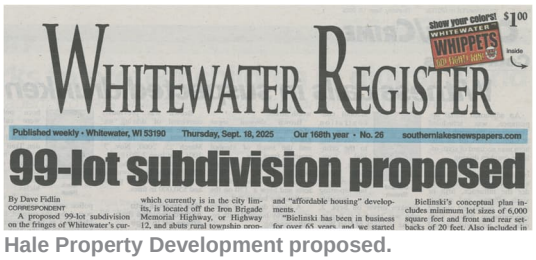
As part of street design projects, we work with City staff to identify and implement logical sidewalk extensions and replacements as well as Americans with Disabilities (ADA)-compliant curb ramps on all projects throughout the city. A good example is the East Clay Street project where no sidewalk existed on long sections of the project corridor. Street design included construction of a continuous sidewalk network throughout the corridor. In addition to sidewalks, we have assisted the City with several trail projects, including the entire Whitewater Creek trail system and three bridges, the path along North Fremont Road, the path along the Starin Road extension, and the path system in the Whitewater Technology Park.

Construction Management/Inspection

When requested by the City, we provided construction administration and on-site construction observation services for projects. We have provided these services on most recent projects we have designed for the City, but for some projects our role during construction is minimized by utilizing City staff. We have worked closely with City staff to identify the desired level of construction-phase assistance on projects and have tailored our services to meet the City's needs.

Subdivision Review

We have assisted with design, review, and construction observation for several subdivision projects, including Mound Park Acres, Waters Edge South, Park Crest, and Prairie Village. Our reviews have not been limited to subdivisions but have included reviews for many site development projects such as the Kwik Trip stores, Aldi, Dollar Tree, and the LaVelle Industries expansion. Recently, we worked with City staff to identify future residential development areas and developed conceptual development plans and cost information for possible future residential development on the Hoffman property and the Hale property on the south and west side of the city. We are also familiar with the City's goals for development of the Eastgate Plaza and the Starin Road/Hospital Hill area. We are uniquely qualified to assist the City with these projects as they move into the platting, design, and construction phases.



WHITEWATER REGISTER

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99-lot subdivision proposed

By Dave Fidlin
CORRESPONDENT

A proposed 99-lot subdivision on the fringes of Whitewater's cur-

which currently is in the city limits, is located off the Iron Brigade Memorial Highway, or Highway 12, and abuts rural township prop-

and "affordable housing" developments.

"Bielinski has been in business for over 65 years, and we started

Bielinski's conceptual plan includes minimum lot sizes of 6,000 square feet and front and rear setbacks of 20 feet. Also included in

Hale Property Development proposed.

Studies

We have completed various studies for the City, including for the water system, pumping stations and other wastewater facilities, and traffic facilities. Most recently, we completed a study of the Vanderlip Pumping Station and evaluated several alternatives for replacement of the pumping station. The selected alternative has now been constructed, including construction of a new Vanderlip Pumping Station with a sewer extension to allow abandonment of the Fraternity Lane Pumping Station. The new Vanderlip Pumping Station will serve existing and future development on the west side of the city for decades to come.

Water Department vehicle storage garage.

Facilities

We have assisted with facilities projects, including City Hall, roof replacements, site work for Cravath Lakefront Park, Treyton's Field of Dreams, the Water Department Vehicle Storage Garage, and the Fire Department remodeling. We are currently designing site work for a new training facility for the Whitewater Fire Department in the business park.

Funding

Our staff has deep expertise in various funding programs. We have assisted the City with projects utilizing several available funding programs, including those available from the Wisconsin Department of Transportation (WisDOT), WDNR, Economic Development Administration (EDA), Community Block Development Grant (CDBG), and Petroleum Environmental Cleanup Fund Award (PECFA). Recent examples include the following projects:

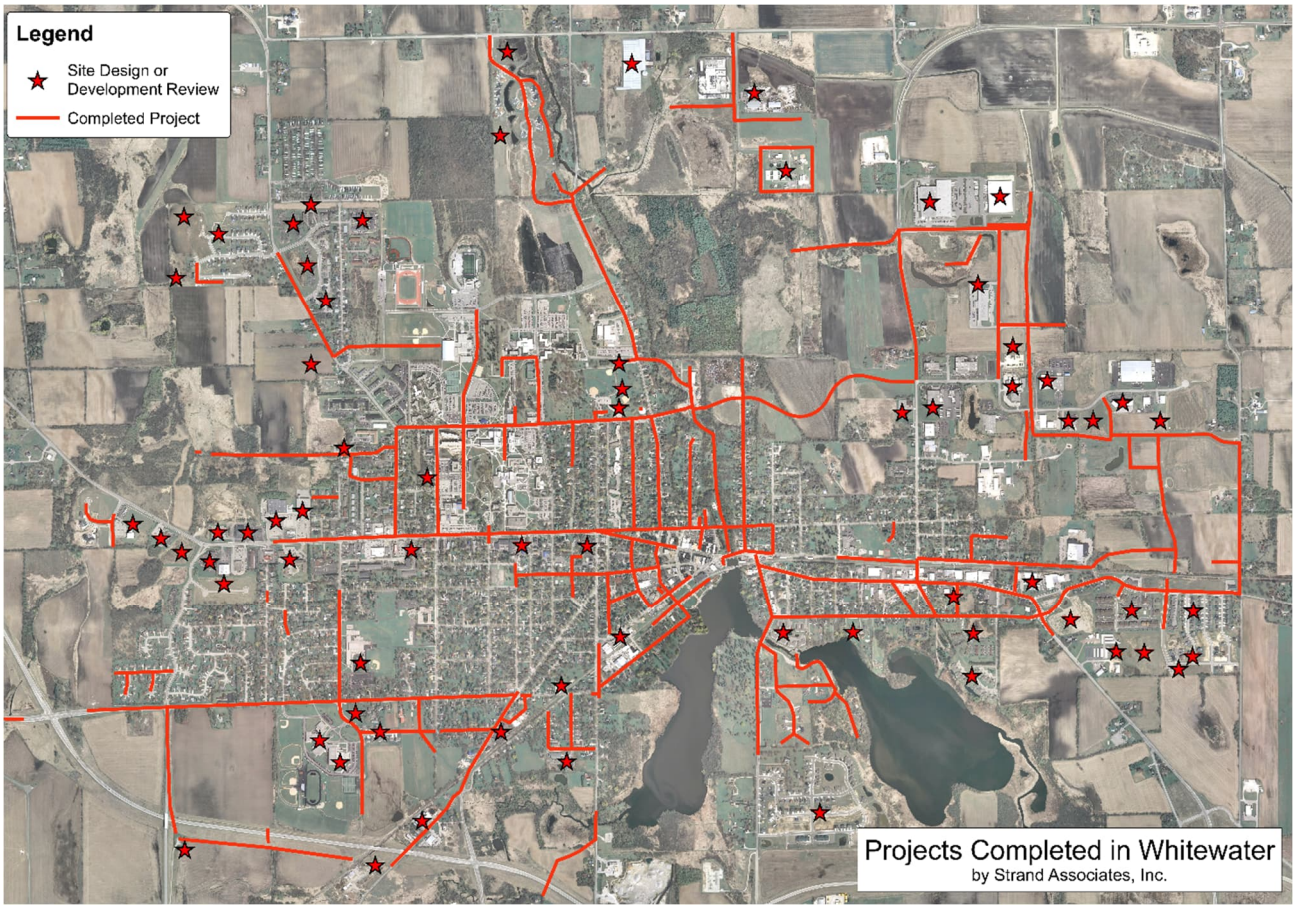
City Project	Funding Source
Ann Street and Franklin Street Reconstruction	CDBG, PECFA
Ann Street Detention Basin	WDNR- Urban Non-Point Source and Stormwater Grant
Clay Street Reconstruction	WisDOT-Surface Transportation Program (STP-Urban)
High Efficiency Street Sweeper Purchase	WDNR-Urban Non-Point Source and Stormwater Grant
Southwest Elevated Tank	CDBG
Stormwater Quality Management Plan Update	WDNR-Urban Non-Point Source and Stormwater Grant
Ann Street and Fremont Street Reconstruction	WisDOT-Local Road Improvement Program (LRIP)
Walworth Avenue Reconstruction	WisDOT-Bipartisan Infrastructure Law (BIL)
Innovation Drive Reconstruction	WisDOT-Bipartisan Infrastructure Law (BIL)
Vanderlip Pumping Station and Force Main	WDNR-Clean Water Fund Loan (CWF) and Hardship
Lead Service Line Replacements	WDNR-Safe Drinking Water Loan Program

Statement of Interest

Unmatched Knowledge of the City, and Established Working Relationships, Yields Effective Projects

We are genuinely interested in continuing our role as City Engineer for the City of Whitewater. We value the relationship we have developed with City staff and elected officials and are committed to maintaining a high level of service, in the most efficient manner possible. **We have completed nearly 200 projects and site reviews throughout the city,** as shown on the map below. We are intimately familiar with the City's facilities by having completed studies, surveys, designs, and construction services for a variety of projects, including street construction, bike paths, bridges, utility construction, water system facilities, wastewater facilities, and buildings. This has enabled us to develop unique hands-on knowledge of the location, capabilities, and overall importance of key City infrastructure.

Having firsthand knowledge of the topography of the city has given us an understanding of general drainage patterns and utility service areas throughout the city and enables us to efficiently identify areas of concern and determine how various areas can be served by city facilities and infrastructure. Through completed underground utility projects, we have knowledge of where to anticipate high bed rock, high groundwater, wetlands, and the potential for poor soil conditions, including possible soil contamination.



As City Engineer, we have worked closely with staff and have maintained continuity despite changes and reorganization. Through this close working relationship, we have developed an understanding of what to expect from each other as a project proceeds. We have made the effort to involve City staff at all levels to obtain valuable input and utilize their knowledge and have recognized their role in the success of each project. This has led to a high level of trust between our staff and City staff, which results in excellent communication and optimizes the use of resources.

The City has made many important infrastructure improvements in recent years, yet the City is poised to undertake additional projects in the coming years. We are very familiar with many of these projects, and we are eager to continue to assist the City with its municipal, stormwater, wastewater, water, and facilities projects. Our familiarity with these projects and initiatives will enable us to maintain continuity and make an immediate contribution to the City's projects.

Key Personnel

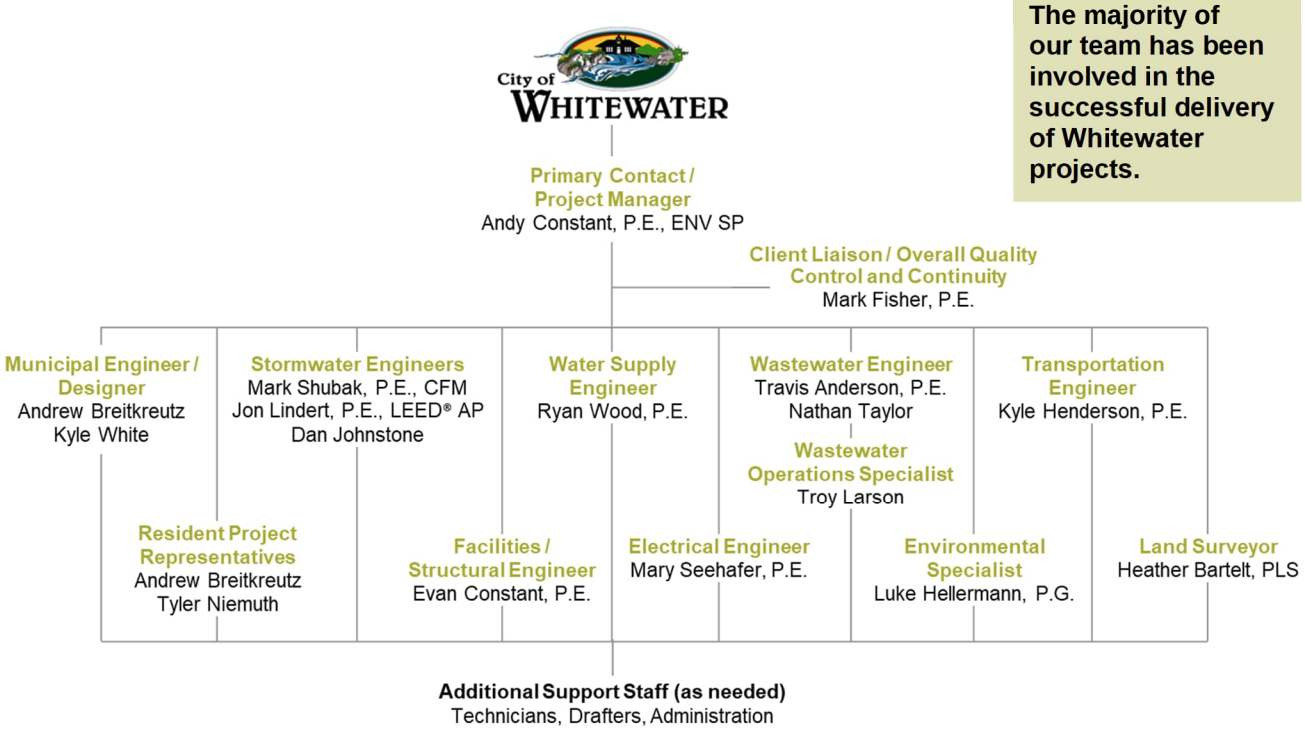
Continuity of Service Provided by Committed Team with Excellent Record of Responsiveness

Our firm is comprised of engineers and staff with diverse experience and talent. As an organization, we have the highest commitment to clients and, therefore, will provide the resources necessary to make sure the City's project goals are successfully met. Our proposed team has years of experience with design projects in Wisconsin and most of our team has provided design and/or construction services on City of Whitewater projects.

Below is an organizational chart followed by a brief description of each core team member and their role. **All individuals listed are based in our corporate office in Madison, only 50 minutes from the city.** We also have other well-qualified team members in-house available to help, as projects require.

Big-firm capabilities with small-firm dedication to service will result in responsive engineering and construction-related consultation services.

The majority of our team has been involved in the successful delivery of Whitewater projects.



As noted in the organizational chart, after more than 27 years of service as the primary contact for City Engineering services, Mark Fisher will transition that role to Andy Constant. Mark will continue as Project Manager for current projects, such as the Jefferson Street and Putnam Street reconstruction projects, but Andy will be the Project Manager for new projects starting in 2026.

We have an excellent record of delivering quality infrastructure improvements and doing so in a manner that is highly professional and responsive. Our low employee turnover rate provides confidence that the staff that begins each project will finish it. We recognize that City Engineering services require a high degree of responsiveness; a thorough understanding of local ordinances, procedures, and infrastructure; and the ability to communicate technical issues to City trustees and constituents alike.

Primary Contact / Project Manager

Andy Constant, P.E., ENV SP, is a Wisconsin-registered Professional Engineer and has served as a Project Manager, Project Engineer, and Field Engineer with our firm since 2014. He is currently the coordinator for our Madison Municipal Engineering discipline. Andy's 11 years of experience has been heavily involved in the plan development, design, and construction observation of numerous pumping stations, force mains, street, and utility projects. Andy has played a significant role in our capacity as official municipal engineer or on-call engineer for the cities of Whitewater, Lancaster, Lake Mills, Stoughton, and Waupaca; and the villages of Bristol, Brooklyn, Cottage Grove, and Waunakee. Andy's first involvement in Whitewater began in 2016 as Resident Project Representative (RPR) for Center Street, Boone Street/Court, and George Street reconstruction projects. More recently, he authored the Vanderlip Pumping Station Study and served as Co-Project Manager and Lead Design Engineer for the City's Vanderlip Pumping Station and Force Main project.

Andy's overall management, design, construction, and quality control review experience has provided him with useful knowledge over the full life cycle of a project and will enable him to bring a well-rounded approach to upcoming City projects. As Primary Contact and Project Manager, Andy will be responsible for coordinating the day-to-day activities of our team and communicating with City staff. He will be responsible for making sure project milestones are met and that the City's comments, concerns, and input are appropriately addressed in a timely manner. We are confident that Andy's existing relationship with several key City staff members will continue to serve the City in a positive manner.

Andy and Mark Fisher have worked on numerous projects together throughout Wisconsin and will continue to use that strong relationship to maintain continuity while serving as the City's engineer.

Client Liaison / Overall Quality Control and Continuity

Mark Fisher, P.E., Senior Associate, brings 35 years of experience in municipal engineering and is an outstanding resource for our team. Mark has been involved in almost all City projects since our initial selection as Whitewater's City Engineer in 1992 and has served as the main contact with the City since 1998.

Throughout his career, Mark has focused on serving municipal clients with a wide variety of infrastructure needs, both on-call and on an individual project basis. His vast experience includes subdivision and site reviews and design and construction management of streets and sidewalks, storm sewers, sanitary sewer interceptors, pumping stations, force mains, and water mains. Mark's specialty is completing street and utility projects in complex urban environments, and his overall experience and attention to detail with both design and construction issues provides a crucial resource for the communities he serves.

As the Quality Control Engineer, Mark will be responsible for review of design criteria and documents at predetermined levels of completion and be available to the project team as an experienced technical resource. He will stay involved with projects to ensure consistency with project delivery and with previously completed projects. As a result of Mark's overall experience with City projects, staff, and processes, and understanding of the City's infrastructure and needs, he will continue to be a trusted resource to our project team and City staff.

Municipal Engineer / Resident Project Representative

Andrew Breitkreutz has 4 years of combined municipal engineering and construction observation experience. His experience covers complete site civil design, utility infrastructure layout and design, permit applications for state agencies, and construction oversight. Andrew is currently providing RPR services for the City's Vanderlip Pumping Station and Force Main project and the Lead Service Line Replacement Project. In 2024, he provided efficient and successful RPR services for **six** different construction projects for the City, several of which were underway simultaneously. He is currently providing design assistance for the Jefferson Street Reconstruction Project. In addition to Whitewater projects, Andrew has designed or assisted with the Brookstone Development Phase VIII and Milton Street Reconstruction projects in Lake Mills; Hotel Street Reconstruction and Business Complex Phase II projects in Brooklyn; and the 31st and 32nd Avenue Reconstruction in Monroe. Along with design, Andrew served as the RPR for multiple construction projects in the Village of New Glarus and the Downtown Streets project for City of Middleton. Andrew brings hands-on field experience to the design phase, aiding in avoiding costly constructability issues during a project's construction phase.

Municipal Designer

Kyle White will be a Project Designer for street and utility projects. Over the past 20 years, Kyle has been exposed to a wide variety of technical assignments, including field surveys, design work, traffic control plans, drafting work, construction staking, and construction observation. He is a key resource for our team for surveying, design software, and construction staking. Kyle's experience and energy makes him a valuable member of our team and will result in cost efficiencies during construction. In addition, Kyle has worked closely with Mark Fisher on most of our Whitewater projects since 2010 and has assisted with the design and construction implementation of a diverse list of projects. He served as RPR for notable projects, including Milwaukee Street, Downtown East Gateway, and the Ann Street/Franklin Street projects. He is currently assisting Mark with the design of Putnam Street, Jefferson Street, and Main Street/Franklin Street intersection projects. Kyle's keen awareness in recognizing and resolving utility conflicts in congested utility corridors will be invaluable to the success of projects during design and construction.

Stormwater Engineers

Mark Shubak, P.E., CFM, Senior Associate, has 32 years of practical experience as a stormwater and water resource engineer, and is a Certified Floodplain Manager. Mark's background includes hydrologic and hydraulic (H&H) analyses using a variety of software packages; plan development, design, and construction administration of stormwater conveyance and storage facilities; preparation of stormwater utility feasibility studies and implementation plans; preparation of floodplain and floodway studies/maps; Phase 1 and 2 National Pollutant Discharge Elimination System (NPDES) stormwater permitting and grant writing; and streambank restoration plan development and design.

Mark has provided extensive stormwater and floodplain management expertise and guidance on numerous projects for municipal clients throughout the Midwest, including the City of Whitewater. He has assisted the City over the past 20 years performing stormwater and drainage focused review of land development projects to check conformance with City ordinances and design standards. His recent project experience includes the City's Putnam Street, Jefferson Street, and East Main Street Reconstruction projects, and the 2025 Detention Basin Maintenance projects. He also has been heavily involved with the City's Stormwater Management Master Planning and Phase 2 NPDES permit compliance efforts. Mark brings significant experience with projects along major river systems and how those systems impact performance of neighborhood- and watershed-level storm sewer systems. He served as the Lead Stormwater and Hydraulic Engineer for the Lower and Upper Bee Branch Creek Restoration Projects in Dubuque, Iowa, that replaced 4,500 feet of 15-foot-diameter storm sewer with a restored open waterway. He also served as the Lead Stormwater and Hydraulics Engineer for plan development and design of approximately 55,000 feet of storm sewer conveyance facilities, 5,600 feet of restoration to the Cincinnati, Ohio, historic Lick Run greenway corridor, and numerous stormwater green infrastructure techniques throughout the watershed.

Jon Lindert, P.E., LEED® AP, has been with our firm for 32 years and is a leading stormwater expert in the Midwest. His stormwater expertise includes plan development, analysis, design, construction, quality modeling/analysis, municipal separate storm sewer system (MS4)/total maximum daily load (TMDL) compliance, watershed plan development/management, H&H modeling, stormwater utilities, and floodplain management. Jon also has experience with design of storm sewers, culverts, streambank and natural area restorations, dredging projects, dry- to wet-pond conversions, bioretention basins, underground wet detention basins, bioswales, infiltration basins, and rain gardens. His project experience includes analysis of complex stormwater quality and quantity issues, navigation of complex regulatory requirements, and orchestration of significant public involvement plans.

Jon is our Corporate Technical Advisor on green infrastructure and stormwater funding and policy, urban stormwater analysis, and green infrastructure plan development and design. He has worked as a Project Engineer, Project Manager, Lead Stormwater Engineer, Technical Advisor, or Quality Control Engineer for most of our urban stormwater analysis projects. He is adept at providing practical, budget-conscious engineering services aimed at meeting specific project flood control or water quality goals while seeking green infrastructure opportunities to protect our environment.

Jon is currently managing the City's Stormwater Quality Management Plan and Starin Road Underground Wet Detention projects. Other City projects he managed included Municipal Phosphorus Reduction Credit and the TMDL Stormwater Plan. Jon completed the following Wisconsin Department of Administration (WI DOA) Division of Facilities Development (DFD) projects at UW-Whitewater: Parking Lot 19 Reconstruction, City of Whitewater and UW-Whitewater Stormwater Quality Management Plan, stormwater engineer for the UW-Whitewater Campus Master Plan, Lauderdale Drive Stormwater Improvements, and stormwater engineer for the Starin Road 100-year storm sewer and inlet design to alleviate flooding in the UW-Whitewater campus area. As a result of Jon's overall experience, he has developed a vital understanding of the City's stormwater needs and has important relationships with City of Whitewater staff.

Jon has held numerous leadership roles in professional associations (American Society of Civil Engineers, Central States Water Environment Association, and Rock River Coalition) and is a regular technical presenter on stormwater-related topics at conferences (Fox-Wolf Watershed Alliance; Wisconsin Association for Floodplain, Stormwater, and Coastal Management; APWA; and ASCE).

Daniel Johnstone, E.I.T., joined our firm in 2021 and will assist with stormwater design aspects. To-date, Dan's experience has included survey, design, stormwater quality and quantity modeling, innovative green infrastructure alongside traditional storm sewer upgrades, stormwater grant applications, and permitting for a variety of projects.

Dan is currently working with Jon on the City's Stormwater Quality Management Plan and Starin Road Underground Wet Detention Basin project, and Mark on the 2025 Detention Basin Maintenance project. Dan has also assisted in the writing of the grant that helped fund the Stormwater Quality Management Plan Update and he worked on the City's 2023 TP Leaf Credit. He recently completed our Manitowoc Stormwater Quality and Quantity Plan and Fond du Lac Localized Flood Study, including leading the XP-SWMM and WinSLAMM modeling efforts. He is adept at stormwater management for reconstructions and retrofits, including planning and design for storm sewer sizing for a 130-acre watershed, hydrodynamic separator serving a 47-acre watershed in Stoughton, dry- to wet-pond retrofits in Sheboygan and Wausau, wet pond dredging maintenance in Waunakee, and streambank restoration in Fitchburg. Dan assisted with stormwater quality plans for MS4/TMDL compliance in Wausau, Marshfield, Marathon County, and Manitowoc. He provides annual ongoing MS4 support in Waunakee and Westport (illicit discharge detection and elimination [IDDE] inspections, stormwater system mapping, MS4 annual report). Dan worked with Jon on the City of Madison's *Complete Green Streets: Enhanced Distributed Green Infrastructure and Tree Canopy Guidance* document. He is currently the lead XP-SWMM 2D modeler on a flood control study in Cedar Falls, Iowa. Dan's stormwater skill set is bolstered by his proficiency in XP-SWMM 2D, HydroCAD, WinSLAMM, GeoHECRAS, AutoCAD Civil 3D, and ArcGIS Pro.

Water Supply Engineer

Ryan Wood, P.E., Senior Associate, has been with our firm for more than 19 years, during which time he has acquired extensive experience in the planning, design, bidding, and construction of wells, water treatment plants, and reservoirs. Ryan currently serves as a Lead Project Facilitator, Project Manager, and Quality Control Engineer on water supply projects based in our Madison office and across the company.

As a licensed Professional Engineer in both Wisconsin and Illinois, Ryan has contributed to numerous water supply, water treatment, water studies, water storage, and cellular review projects for the communities he serves. His project portfolio includes work in dozens of Wisconsin communities, including Whitewater, East Troy, Fitchburg, Oregon, Platteville, Madison, Middleton, Slinger, and Fond du Lac; Rockford, Belvidere, Capron, Joliet, Loves Park, Lindenhurst, and Romeoville, Illinois; and Marietta, Circleville, Chillicothe, and Portsmouth, Ohio. Ryan is currently managing the City's Water Supply Service Area Plan and Well No. 7 Modifications projects. Ryan previously assisted the City with cellular reviews along with the planning, design, and construction of the City's southwest elevated tank project.

Wastewater Engineers

Travis Anderson, P.E., has been serving wastewater clients for 15 years and leads our team of Madison wastewater engineers as the Discipline Coordinator. Travis has a broad wastewater background, having served in a variety of roles, including process design, regulatory compliance, construction observation, project management, and quality control reviews. In Wisconsin, he has served as a Project Manager for wastewater projects in Whitewater, Appleton, Berlin, Bristol, Brooklyn, Delafield, Fond du Lac, Madison, Merrimac, Salem Lakes, and Waukesha, bringing a wide range of expertise. Travis is very familiar with Wisconsin wastewater regulations and all aspects of the City's Wastewater Treatment Plant (WWTP). Recent Whitewater projects include the WWTP Capacity Study, Biosolids Thickening Planning project, and Biosolids Study. He is currently serving as the Project Manager for and the WWTP RAS Pump project. Travis also worked with Jon on the City's Final Compliance Alternatives Plan for Phosphorus that brought together the WWTP, City MS4, and UW-Whitewater MS4 to collaborate on prioritization of WWTP and MS4 stormwater quality projects.

Nathan Taylor, E.I.T., has been with the firm since 2021 and participated in projects related to most treatment processes within a WWTP. Nathan is currently working with Travis on the City's WWTP RAS pump project, a digester mixing and piping construction project in Berlin, and a WWTP facilities project in Brooklyn. He recently provided engineering design services for WWTP projects in Bristol, Lancaster, and Marshfield; Bartlett and Milan, Illinois; Cedar Falls and Iowa City, Iowa; Shepherdsville, Kentucky; and Brazoria and El Campo, Texas.

Wastewater Operations Specialist

Troy Larson is a licensed wastewater operator with a B.S. in biology and has 33 years of experience in the wastewater operations field. Troy has operated numerous treatment facilities and supports our WWTP plan development, design, and construction-related projects from the perspective of the operator. Troy provides guidance during design efforts related to construction sequencing and specified startup, commissioning, and optimization. After design, he develops operations and maintenance manuals and leads process training and startup services. Troy's education in biology and his operations experience enable him to be a trusted troubleshooter and wastewater treatment optimization specialist. He also provides clients with another point of contact who 'speaks their language,' which can be invaluable when implementing projects. Troy has consulted with staff at the Whitewater WWTP on a variety of operations-related topics and issues over the years and has assisted with several WWTP projects. Currently, Troy is assisting Travis with the WWTP RAS Pump project. Other City projects include a WWTP Capacity Study, Biosolids Study, Phosphorus Evaluation Study, and WWTP planning and design improvements between 2010 and 2012.

Transportation Engineer

Kyle Henderson, P.E., has more than 18 years of experience in data collection, traffic operations and modeling, safety analysis, intersection design studies, roundabout design, and design of traffic control devices. He has completed more than 85 intersection control evaluations and has been involved in the traffic modeling and design of more than 60 traffic signals and 30 roundabouts throughout the Midwest. Kyle's experience has led him to be certified as a Level 2 qualified roundabout designer/reviewer through WisDOT, solidifying his role as a knowledgeable resource in the field. He has also completed Traffic Impact Analysis for many clients and provides traffic review services for communities throughout Wisconsin. Kyle was the Project Manager for the City's WIS 59 Speed Limit Evaluation and served in a similar role on the Prairie Street/Main Street Intersection and the Whiton Street/Main Street Highway Safety Improvement Program projects, addressing intersection safety concerns. He also led the data collection and evaluation efforts for the evaluation of east/west traffic through Whitewater during the evaluation of roadway updates to Starin Road.

Kyle has a proven record of collaborating with team members on projects large and small, as well as coordinating with public agencies to track and resolve project issues with solutions tailored to individual intersection needs. He is familiar with Highway Capacity Software (HCS), Synchro and SimTraffic, VISSIM, Paramics, MicroStation, GEOPAK Road, and AutoTURN programs, bringing a multi-talented member to the team.

Facilities / Structural Engineer

Evan Constant, P.E., is a licensed Wisconsin professional engineer and will provide structural engineering. His 10 years of experience includes designing pumping stations, wastewater structures, buildings, industrial facilities, stormwater structures, bridges, box culverts, and retaining walls. He has designed building expansions and completed structural assessments and capital improvement programs for treatment facilities and structures.

Evan's recent experience includes Whitewater's Fire Department Bunk Room Remodel, Fire Training Facility, and Water Utility Vehicle Storage Garage; Stoughton's Mandt Park and City Hall Renovations; McFarland's Public Works Facility Remodel; and many large industrial facility projects. These projects include a variety of building types, including precast concrete, concrete masonry unit and brick façade, and pre-engineered metal and wood buildings. Evan also provided a comprehensive structural assessment of more than 70 buildings and structures to generate a 5-year capital improvement program for the Thorn Creek Basin Sanitary District in Chicago Heights, Illinois; and structural modifications to an existing wastewater treatment headworks building that included replacing screening and screening handling equipment and retrofitting vortex grit removal tanks inside existing aerated grit tanks in Janesville.

Electrical Engineer

Mary Seehafer, P.E., and has been with our firm for 13 years and serves as the Discipline Coordinator of our Madison electrical discipline. Mary's design experience includes standby power systems, programmable logic controller (PLC)-based control systems using industrial Ethernet networks, remote telemetry (radio and cellular), communication systems (voice and data), and development of control algorithms and supervisory control and data acquisition (SCADA) system human-machine interface (HMI) graphics for both new and existing systems. Her projects have included design of new facilities, upgrades and additions to existing facilities, power monitoring for harmonics and related electrical problems, and the analysis of building electrical systems with respect to applicable codes. She has also designed roadway electrical and lighting systems for parking lots, municipal roadways, and state and interstate highways. A broad sample of Mary's electrical design projects include Whitewater's Vanderlip Pumping Station and Force Main project; parking lot lighting improvements at UW-Whitewater, multiple rehabilitation projects at the Janesville Wastewater Treatment Facility (WWTF), the South Slope WWTF Improvements and Water Treatment Plant (WTP) SCADA System Upgrades in Moline, Illinois; On-Call Water System Support Services and Still River Facility Modifications in Pewaukee; a WTP and SCADA System Replacement project in Marietta, Ohio; and roadway lighting system design on US 151 (Verona Road)/US 12/14 (West Madison Beltline) in Dane County.

Resident Project Representative

Tyler Niemuth, E.I.T., will provide construction support for the team. Tyler is a member of our Municipal Engineering Department, providing design and construction observation services for various municipal infrastructure projects throughout Wisconsin and Illinois for the past 3 years. Tyler has a unique connection to Whitewater, as a Whitewater native and a graduate of Whitewater High School. He has effectively led multi-million-dollar projects to successful completion by working closely with municipal staff, local officials, agencies, property owners, and contractors. As an RPR, Tyler has been responsible for construction staking, construction observation, public involvement, testing, and review of contractor payment applications and preparation of record drawings. In addition, he is proficient with management aspects of construction, including contract modification negotiations, materials quality assurance, estimate preparation, and finals documentation.

Tyler has a clear understanding of the City's construction process, having provided construction observation for the Vanderlip Pumping Station and Force Main, Southwest Water Main Extension, and the North Side Water Main Extension projects. Other projects where Tyler served as the RPR include the Mandt Park Phase 1, and the Fourth Street, Fifth Street, and South Street Reconstruction projects in Stoughton; and the Yahara Estates development project in Westport.

In addition to services in the field, Tyler has provided and continues to provide substantial added value as a resource to our project teams with design issues and constructability reviews. His municipal design experience includes projects in Whitewater, Stoughton, Westport, Middleton, Town of Brookfield, Prairie du Sac, and Stevens Point. His overall experience on municipal infrastructure projects, combined with his unique versatility, enhances his ability to provide comprehensive construction observation services.

Environmental Specialist

Luke Hellermann, P.G., is a Professional Geologist with 34 years of experience in environmental investigation, documentation, and permitting. He has completed numerous National Environmental Policy Act (NEPA) documentation for projects of all types, ranging from Categorical Exclusions (CE) to Environmental Impact Statements (EIS). Luke also has extensive experience with contaminated site investigation, sediment sampling, redevelopment planning, and waste management. Luke has evaluated contaminated material reuse and treatment/disposal options for numerous construction projects and has written contract special provisions and Material Handling Plans for the management and reuse of wastes. Some of the projects requiring these services in Whitewater include annual landfill monitoring since 2018; sediment sampling at various stormwater ponds/basins; Jefferson Street, Ann Street and Franklin Street, George Street, Clay Street, East Milwaukee Street, and East Gateway Boulevard Reconstruction projects; and environmental documents for Housing and Urban Development (HUD) and CDBG grant projects. Luke prepared the environmental site assessments for several properties the City now owns in the future Gateway Plaza area.

Land Surveyor

Heather Bartelt, PLS, is a licensed professional land surveyor in Wisconsin. She serves as our Lead Survey Crew Chief and computer-aided drafting (CAD) standards specialist and has been with our firm for more than 25 years. Heather has extensive experience in municipal and DOT design project development and has led numerous survey and plat preparation efforts. Her experience includes the use of High-Definition Surveying (HDS) 3-D laser scanning, Global Positioning Systems (GPS), and Total Stations. She has provided survey services and prepared many right-of-way plats for municipal and DOT roadway projects. In Whitewater, Heather has provided several easements and plats. Specifically, she worked on the Walworth Avenue temporary limited easement (TLE) acquisition exhibits, Clay Street Transportation Project Plat, Main Street and Franklin right-of-way and construction easements, and various Tax Increment Financing District (TID) legal descriptions, water main easement legal descriptions, Walworth Avenue and Prince Street drainage easements, and Fremont Street drainage easements. Heather will bring her expertise and Whitewater experience to any surveying, land division, or easement services the City may require.

City Engineering Services

Record of High Quality, Thorough Engineering on a Wide-Array of Projects Reassures City of Continued Success with Municipal Services

Many municipalities rely on us as a partner in addressing municipal engineering needs. We have developed and continue to maintain various long-standing affiliations with communities – many extending into several decades of service. Our service is flexible and tailored to the specific needs of each client. The relationships we have developed with our Wisconsin municipal clients show that we endeavor to be more than a consulting engineer – we strive to be a community partner, willing and ready to assist on a wide range of associated issues. It is this type of partnership that enables us to do what we do best: *high quality, thorough engineering*. Our vigorous commitment to these ideals will meet the City of Whitewater's goals and objectives for engineering services.

The following list includes Wisconsin communities where we currently serve as the village/city/town engineer or as a municipal consultant on an as-needed basis. For those communities in bold, we have provided contact information but can also provide additional contacts, if desired.

Wisconsin Communities Served by Strand Associates, Inc.®		
City of Bayfield, WI	Town of Brookfield, WI	Village of Merrimac, WI
City of Lake Mills, WI	Town of Westport, WI	Village of New Glarus, WI
City of Lancaster, WI	Village of Bristol, WI	Village of Oostburg, WI
City of Middleton, WI	Village of Brooklyn, WI	**Village of Prairie du Sac, WI**
City of Monona, WI	Village of Campbellsport, WI	Village of Salem Lakes, WI
City of Stoughton, WI	**Village of Cottage Grove, WI**	Village of Shorewood, WI
City of Waupaca, WI	Village of Fredonia, WI	**Village of Waunakee, WI**
City of Whitewater, WI	Village of Lannon, WI	Waupun Public Utilities, WI

Feel free to contact the following references. These individuals had direct involvement in our projects and can provide the best assessment of our continuing service.

References	
Village of Cottage Grove Kyela O'Loughlin, Public Works & Utilities Director 221 E. Cottage Grove Road, Cottage Grove, WI 53527 608-839-5813 | koloughlin@villageofcottagegrove.gov **Service Dates:** 2020 – Present	**City of Lake Mills** Drake Daily, City Manager 200D Water Street, Lake Mills, WI 53551 608-648-2344 | ddaily@ci.lake-mills.wi.us **Service Dates:** 1988 – Present
City of Stoughton Brett Hebert, Director of Public Works 2439 County Highway A, Stoughton, WI 53589 608-877-8684 | bhebert@cityofstoughton.com **Service Dates:** 1975 – Present	**City of Lancaster** John Hauth, Public Works Director 206 S Madison Street, Lancaster, WI 53813 608-723-7543 | DPW@lancasterwisconsin.com **Service Dates:** 1994 – Present
Village of Prairie du Sac Alan Wildman, II, Village Administrator 335 Galena Street, Prairie du Sac, WI 53578 608-643-2421 | awildman@prairiedusac.cnet **Service Dates:** 1991 – Present	**Village of Waunakee** Bill Frederick, Director of Public Works 500 W Main Street, Waunakee, WI 53597 608-849-5765 | bfrederick@waunakee.com **Service Dates:** 1998 – Present

Relevant Projects

Breadth and Depth of Current Projects Portray Engineering Range and Expertise

The list below summarizes our relevant Wisconsin project experience either completed or underway in 2025 in the fields of municipal engineering, stormwater management, water supply engineering, wastewater treatment and conveyance engineering, transportation engineering, and building/facility engineering. This is not an exhaustive list but rather a select list representative of the variety of projects with which we are involved.

Municipal Engineering		
Project Type	**Client Name**	**Project Name**
Local Sewer and Water	**City of Whitewater**	**Lead Service Line Replacement**
Local Streets Design	**City of Whitewater**	**Putnam Street Reconstruction**
Local Streets Design	**City of Whitewater**	**Walworth Avenue Reconstruction-BIL Funded**
Local Streets Design	**City of Whitewater**	**Innovation Drive-BIL Funded**
Local Streets Design	**City of Whitewater**	**Jefferson Street Reconstruction**
Local Streets Design	**City of Whitewater**	**2025 Street Maintenance**
Local Streets Design	**City of Whitewater**	**Main Street/Franklin Street Intersection**
Sanitary Sewer and Pumping Station	**City of Whitewater**	**Vanderlip Pumping Station and Force Main**
Construction Staking/Inspection	Town of Westport	Yahara Estates Construction Services
Pumping Station/Force Main	Madison Metropolitan Sewerage District	Pumping Station 10 Force Main Repairs
Traffic Studies	Village of Brooklyn	Business Park Complex Traffic Impact Analysis
Major Intersection/Interchange	City of Monroe	13th Street and 31st Avenue Reconstruction
Studies	City of River Falls	Safety Action Plan
Mapping/GIS	City of Lake Mills	GIS Services On-Call
General Design	City of Stoughton	RDA Site Development
Subdivision/Site Plan Review	Village of Cottage Grove	Project Silver Eagle (Amazon) Development Review and Construction Observation
Local Sewer and Water Design	Madison Metropolitan Sewerage District	Nine Springs Valley Interceptor Replacement
Local Streets	Town of Brookfield	Davidson Road Reconstruction
Construction Staking/Inspection	Town of Westport	Yahara Estates Construction Services
Sanitary Sewer and Pumping Station	City of Watertown	Allerman Lift Station and Force Main Design
Sanitary Sewer and Pumping Station	Walworth Count Metropolitan Sewerage District	Inspiration Ministries Pumping Station Study
Urban Streets	City of Kenosha	22nd Avenue Uptown Reconstruction
Urban Streets	City of Viroqua	Main Street Bike and Pedestrian Design
Traffic Studies	City of Oshkosh	Oshkosh Ave/Sawyer Street Intersection
Local Sewer and Water Design	Village of Cottage Grove	Hydrite Water Main Relocation
Local Sewer and Water Design	City of Janesville	Court Street Water Main Replacement
Local Streets Design	City of Stevens Point	Michigan Avenue Improvements
Construction Staking and RPR	Village of Waunakee	Kilkenny Farms West Development
Feasibility Studies	City of Cudahy	Whitnall DPW Concept Site Design
Plat Preparation/Review	City of Monona	Monona Civic Campus and Library
Local Sewer and Water Design	Menomonee Falls Water Utility	Sewer Cured-in-Place-Pipe (CIPP) Lining
Local Streets Design	Village of Merrimac	School Street Reconstruction
Local Streets Design	City of Pewaukee	Hickory Grove Sanitary Sewer and Road
Recreational Parks	Town of Oakland	Lake Ribley Public Boat Launch

Stormwater Management Engineering		
Project Type	**Client Name**	**Project Name**
Storm Sewer/Drainage Facility	**City of Whitewater**	**2025 Detention Basin Maintenance**
Stormwater Planning/Study	**City of Whitewater**	**Stormwater Quality Management Plan**
Stormwater Retention/Detention	**City of Whitewater**	**Starin Road Underground Wet Detention**
Stormwater Planning/Study	City of Brookfield	Stormwater Quality Management Plan
Stormwater Planning/Study	River Falls Municipal Utilities	Central River Falls Flood Control Study
Stormwater Planning/Study	City of Stoughton	Hydrodynamic Separator
Stormwater Planning/Study	City of Oshkosh	Nevada Avenue FEMA Wastershed Study
Stormwater Planning/Study	Village of Rothschild	Phosphorus Reduction Credit
Stormwater Planning/Study	City of Onalaska	Sand Lake Road/USH 53 Regional Pond
Stormwater Planning/Study	City of Fond du Lac	Central Fond du Lac Flood Control Study
NPDES Discharge Permits	Village of Caledonia	Illicit Discharge Detection and Elimination
Stormwater Retention/Detention	City of Manitowoc	Rubick Field Dry Detention Basin Design
Stormwater Retention/Detention	City of Sheboygan Falls	5th Street Detention Basin Design
Storm Sewer/Drainage Facility	City of Arcadia	Internal Drainage Support
Storm Sewer/Drainage Facility	Madison Gas & Electric	Sycamore Avenue Substation Drainage
Stormwater Planning/Study	Village of Cottage Grove	Stormwater Quality Management Plan
Feasibility Studies	Milwaukee Metro Sewerage District	Lyons Park Creek Maintenance Path
Stormwater Planning/Study	City of Milwaukee	North Sherman Boulevard
Stormwater Planning/Study	Village of Somers	Flood Study
Stormwater Utility Design	City of Wausau	Able Stormwater Pumping Station
NPDES Discharge Permits	City of Sheboygan	2025 Illicit Discharge Detection/Elimination
Stormwater Retention/Detention	City of Marshfield	Braem Park Wet Detention Basin
Stormwater Retention/Detention	City of Monroe	Willow Way Wet Detention Basin
Stormwater Planning/Study	City of Waukesha	FEMA BRIC Grant Sub Application

Water Supply Engineering		
Project Type	**Client Name**	**Project Name**
Pumphouse/Wellhouse Design	**City of Whitewater**	**Well No. 7 Modifications**
Water System Study/Modeling	**City of Whitewater**	**Water Supply Service Area Plan**
General	City of Fond du Lac	Private Lead Service Line Replacement
Water System Study/Modeling	City of Delavan	New Elevated Tank
Water System Study/Modeling	City of Pewaukee	Well No. 8 Facility Treatment Evaluation
Water System Study/Modeling	City of Platteville	Water Supply Service Area Plan
Water System Study/Modeling	City of Fitchburg	Unidirectional Flushing Plan
Well Design	City of Oconomowoc	Well No. 8 Design
Water Treatment Design	Green Bay Water Utility	Raw Water Pumping Station Intake
Water Storage Facility Paint Inspection	City of Monona	400,000 Gallon Elevated Tank Repaint
Water Facility Observation	Village of Campbellsport	Well Site Investigation
SCADA Design	City of Middleton	Pumping Station PLC and SCADA
General	City of Oak Creek	Intake Cleaning Permit
General	Racine Water & Wastewater	Risk and Resilience Assessment Update
Water System Study/Modeling	Village of East Troy	Well No. 10 Well Siting Study
Water System Study/Modeling	City of Pewaukee	Water Supply Service Area Plan
Well Design	Village of Lannon	New Water Source Study
Pumphouse/Wellhouse Design	City of Brookfield	Academy Water Facility Filter
Water Storage Facility	Cudahy Water Utility	Water Treatment Plant Reservoir Overflow
Financing	Village of Prairie du Sac	Well No. 5 Safe Drinking Water Loan
Water System Study/Modeling	City of Middleton	Water Facilities Condition Evaluation
Water Storage Facility	Village of Oregon	North Standpipe Rehabilitation

Wastewater Treatment and Conveyance Engineering		
Project Type	**Client Name**	**Project Name**
WWTP Facilities	**City of Whitewater**	**Wastewater Treatment Plant RAD Pump**
WWTP Facilities	**City of Whitewater**	**Wastewater Treatment Plant Return**
WWTP General	City of Whitewater	Wastewater Treatment Plant Capacity Study
Sanitary Sewer Service Area/Master Plan	Madison Metropolitan Sewerage District	Collection System Facilities Plan
WWTP Facilities Planning	Village of Brooklyn	Wastewater Treatment Facilities Plan
WWTP Facilities Planning	City of Sheboygan	Ultraviolet Disinfection Study
Sanitary Sewer System Rehabilitation Design	Walworth County Metropolitan Sewerage District	Emergency 30-Inch Force Main Rehabilitation
Sanitary Sewer System Rehabilitation Design	Town of Brookfield Sanitary District	Poplar Creek Interceptor Lining
WWTP Facilities	Village of Campbellsport	Phosphorus Removal and Facility Upgrades
WWTP Facilities	River Falls Municipal Utilities	WWTF Biosolids Dewatering and Dryer
NPDES Discharge Permit	Village of Marathon	WPDES Permit-Related Assistance
WWTP Operations Assistance	City of Waukesha	2025 Operations Assistance
SCADA Programming	City of Fond du Lac	WTRRF SCADA Services

Transportation Engineering		
Project Type	**Client Name**	**Project Name**
Urban Streets Study	City of Kenosha	128th Avenue Expansion
Traffic Studies	Wisconsin DOT	STH 54/Mason Street Bridge Traffic Study
Environmental Studies (EA, EIS)	Wisconsin DOT	I-39 NEPA Study
Interstate Highway Design	Wisconsin DOT	I-94
US Highway Design	Wisconsin DOT	USH 51
Bike/Pedestrian Path Design	City of Pewaukee	Meadowbrook Road Multi-Use Path Design
County Trunk Highway Design	Sheboygan County	CTH C and CTH TT Roundabout
State Trunk Highway Design	Wisconsin DOT	STH 57 Resurfacing
Right-of-Way Acquisition/Platting/Access	City of Milwaukee	N 35th Street and West Center Street
Bridge Design	Village of Beetown	Rattlesnake Road Bridge

Building/Facility Engineering		
Project Type	**Client Name**	**Project Name**
Structural General	**City of Whitewater**	**Fire Department Training Facility**
Buildings Design	**City of Whitewater**	**Fire Department Bunk Room**
HVAC Study	Green Bay Metropolitan Sewerage District	Heating Hot Water Glycol Addition Review
SCADA Programming	LW Allen	Sussex WPCF Upgrades
Facility Electrical Design	City of Stoughton	Wells No. 5 and 6 MCC Replacements
HVAC Design	Bush Brothers and Company	Augusta – HVAC Construction Services
Electrical Substation Design	Madison Gas & Electric	Nine Springs Substation Upgrade Design
Buildings Design	McCain Foods USA, Inc.	Plover – Infinity Plant Sensory Lab
Structures Design	City of Lake Mills	Bartel Beach Seawall Replacement
Structures Design	Nestle USA	Burlington Mixer Platforms
General Design	Town of Minocqua	Carbon Reduction Program
Computer Systems/Networks Services	City of Portage	IT Support – Administration, Police, Fire, Wastewater, and Water

Municipal Street Reconstruction Project Example: City of Stoughton – 2024 Street and Utility Construction

Successful Completion of Similar Municipal Project Conveys Strong Engineering Background

The RFP asks for information regarding a street and utility reconstruction project completed in 2024. While we completed several successful street and utility projects in Whitewater in 2024 (including Ann Street, Fremont Street, North Fremont Street, and Forest Avenue with a total cost of $3 million), we thought it would be helpful to highlight one of our projects outside the City.

City of Stoughton, WI

We have provided the City of Stoughton with municipal, water, and wastewater engineering services for 50 years. The following project highlights the level of detail and success typical of our municipal street reconstruction projects.

Project Contacts

Director of Public Works	Interim Utilities Director	Director of Planning
Brett Hebert City of Stoughton 2439 County Highway A Stoughton, WI 53589 608-877-8684	Mayor Tim Swadley Stoughton Utilities 600 South Fourth Street Stoughton, WI 53589 608-873-6459	Chris Munz-Pritchard City of Stoughton 207 South Forrest Street Stoughton, WI 53589 608-873-6619

Project Description

Stoughton is making significant investments in redevelopment of Mandt Park and former industrial sites along both sides of the Yahara River, just three blocks from the historic downtown area. To complement these efforts, we assisted the City of Stoughton and Stoughton Utilities with a large street and utility reconstruction project on Fourth Street, Fifth Street, and South Street. The timely reconstruction of Fourth Street and South Street was also important to the City as these streets will serve as a local detour route during the multi-year reconstruction of Main Street/US 51 through the city beginning in 2025. We began design work in 2023, and the $3.1 million project was constructed in 2024.

Fourth Street serves as the main corridor between downtown and Mandt Park. This three-block section of street includes a mix of land uses, including the public library, the City's public safety building, Stoughton Utilities' operations complex, an active industrial site, various residential properties, and vacant former industrial sites the City of Stoughton is planning to redevelop. Aside from upgrading the deteriorating street and aging underground infrastructure, the City's goals for Fourth Street included making the corridor more attractive, improving pedestrian accommodations, and including infrastructure provisions for the redevelopment site. The constructed project included strategic use of streetscaping elements, including decorative concrete, decorative streetlight fixtures, and the use of curb bump-outs to enhance crosswalks. Thoughtful construction staging was required to maintain access to the public buildings and the industrial site throughout construction.

Streetscape improvements on Fourth Street.

South Street is also adjacent to the redevelopment sites and includes a variety of residential land uses. The existing street was much wider than it needed to be and varied in width, and pedestrian accommodations were deficient. The new street was reconstructed to a uniform and narrowed width and included ADA-compliant sidewalks and curb ramps. The work on South Street included replacement of an under-utilized large sanitary sewer interceptor with a smaller diameter sanitary sewer. Field verification of sewer laterals and their depths was needed during design to make sure the new smaller sewer at a steeper slope could serve existing properties. South Street was also designed to accommodate a future phase of reconstruction currently planned for 2028.

Pedestrian accommodations on Fourth Street.

The project also included reconstruction of the street and utility infrastructure on one block of Fifth Street. Fifth Street is characterized by a very steep street slope of more than 10 percent lined with historic single-family homes. The City's fire station is also located on the end of Fifth Street. The design was challenged by the need to match existing driveways, landscaping, retaining walls, and other features on private property.

Scope of Services/Task Order

We had separate task orders with the City of Stoughton and Stoughton Utilities. The base scope and fee for each entity was for design and bidding-related services and we included amendments to each task order for construction-related services. Copies of these task orders and amendments are included in the *Appendix*.

- City of Stoughton – Task Order 22-09 (Design and Bidding-Related Services) and Amendment No. 1 (Construction-Related Services)

- Stoughton Utilities – Task order 22-04 (Design and Bidding-Related Services) and Amendment No. 1 (Construction-Related Services)

Engineer's Estimate, Bid Price, Dollar Value of Change Orders, and Final Construction Costs

The following table summarizes the dollar values of the opinion of probable construction cost (OPCC), bid price, change orders, and final construction costs.

Description	Cost
Engineer's Pre-Bid OPCC	$3,155,495
Awarded Bid Price	$3,126,724
Dollar Value of Change Orders (aside from typical variation in quantities)	$9,025
Final Construction Cost	$3,115,552

Aside from typical variation in quantities (up and down) for unit price bid items, the project included a total of $9,025 of change orders. The project remains in the warranty phase as punch list items are addressed. Although the final pay request has not been submitted, the estimated final construction cost is $3,115,552.

Engineering Costs

The following table summarizes the estimated and actual engineering costs for the project.

Description	Cost
Design and Bidding-Related Services (City of Stoughton – TO 22-09)	$148,000
Design and Bidding-Related Services (Stoughton Utilities – TO 22-04)	$77,000
Construction-Related Services (City of Stoughton – Amendment No. 1)	$149,000
Construction-Related Services (Stoughton Utilities – Amendment No. 1)	$99,000
Total Estimated/Approved Engineering Cost	***$473,000***
Total Actual Engineering Cost	**$412,661**

The estimated design and bidding cost for task order purposes was $148,000 (City of Stoughton) and $77,000 (Stoughton Utilities), for a total of $225,000. The estimated cost for construction-related services for task order amendment purposes was $149,000 (City of Stoughton) and $99,000 (Stoughton Utilities), for a total of $248,000. The total estimated/ approved cost for all engineering services was $473,000.

The actual cost to-date for all engineering services was $252,900 (City of Stoughton) and $159,761 (Stoughton Utilities), for a total of $412,661. The actual engineering cost was $60,339 (12.75 percent) less than the estimated/approved engineering cost.

Sample Drawings

Sample drawings are included in the *Appendix*.

Key Personnel

The table below includes key personnel for the project who are also included on our City of Whitewater team.

Name	Role
Mark Fisher, P.E.	Project Manager
Kyle White	Project Engineer and Construction Staking Coordination
Mark Shubak, P.E., CFM	Stormwater and Permitting
Andy Constant, P.E., ENV SP	Quality Control Review and Shop Drawing Review Assistance
Andrew Breitkreutz	Construction Observation Assistance
Tyler Niemuth	Construction Observation Assistance
Heather Bartelt, PLS	Right of Way and Easements
Luke Hellerman, PG	Contaminated Site Reviews and Documentation

Resumes

Primary Contact / Project Manager

Andrew B. Constant, P.E., ENV SP

Client Liaison / Overall Quality Control and Continuity

Mark A. Fisher, P.E., Senior Associate

Municipal Engineer / Resident Project Representative

Andrew J. Breitkreutz

Municipal Engineer

Kyle R. White

Stormwater Engineers

Mark K. Shubak, P.E., CFM
Jon H. Lindert, P.E., LEED® AP
Daniel J. Johnstone, E.I.T.

Water Supply Engineer

Ryan D. Wood, P.E., Senior Associate

Wastewater Engineers

Travis J. Anderson, P.E.
Nathan R. Taylor, E.I.T.

Wastewater Operations Specialist

Troy A. Larson

Transportation Engineer

Kyle R. Henderson, P.E.

Facilities / Structural Engineer

Evan J. Constant, P.E.

Electrical Engineer

Mary E. Seehafer, P.E.

Resident Project Representative

Tyler B. Niemuth, E.I.T.

Environmental Specialist

Luke T. Hellermann, P.G.

Land Surveyor

Heather S. Bartelt, PLS

Andrew B. Constant, P.E., ENV SP

AREAS OF EXPERTISE

- Conveyance Systems
- Force Main Surge Analysis
- Municipal Utility and Street Design
- Hydraulic System Modeling
- Agency Coordination and Reports

PROFESSIONAL EXPERIENCE

Conveyance System experience includes planning, design, and construction of various wastewater and stormwater pumping stations and force mains, including **Hydraulic System Modeling and Force Main Surge Analysis**. Specific project experience serving as Project Manager and Engineer includes the following:

- **Madison Metropolitan Sewerage District, Wisconsin**
  - Pumping Station Nos. 13 and 14 Rehabilitation
  - Pumping Station No. 10 Force Main Repairs
  - Collection System Facilities Plan Update
- **Village of Barrington, Illinois**
  - IDOT Pump Station 49
  - 111th Street Pumping Station
- **Fox Metro Water Reclamation District, Illinois**
  - North Aurora Pumping Station
  - 111th Street Pumping Station
- **Green Bay Metropolitan Sewerage District, Wisconsin**
  - De Pere Influent Pumping Station Rehabilitation
  - EBS-9 Pumping Station Rehabilitation
- **City of La Crosse, Wisconsin**
  - EDA Stormwater Lift Stations
- **City of Madison, Wisconsin**
  - Thurber Avenue Pumping Station Rehabilitation
- **City of Dubuque, Iowa**
  - Cedar Street and Terminal Street Force Main Assessment
  - Cedar Street Air Release Valve Replacement
- **City of Onalaska, Wisconsin**
  - 6th and Quincy Pumping Station Rehabilitation
  - Court Street Pumping Station
  - Franklin Street Pumping Station
- **Village of Menomonee Falls, Wisconsin**
  - County Line Road Pumping Station
- **Town of Salem, Wisconsin**
  - SLS 101, 102, 104, 207, and 211 Upgrades
- **Town of Westport, Wisconsin**
  - Mendota County Park Pumping Station Rehabilitation
- **City of Lancaster, Wisconsin**
  - Grant County Farm Development Force Main
  - Memorial Park Pumping Station
- **City of Wausau, Wisconsin**
  - Able Stormwater Pumping Station Rehabilitation
- **City of Whitewater, Wisconsin**
  - Vanderlip Pumping Station and Force Main Reconstruction
- **Walworth County Metropolitan Sewerage District, Wisconsin**
  - CTH O Force Main
  - Williams Bay No. 2 Force Main
- **City of Manitowoc, Wisconsin**
  - South 14th Street Lift Station and Force Main
  - South 19th Street Lift Station

Municipal Utility and Street Design experience as project manager engineer including design of various utility and roadway projects utilizing MicroStation and AutoCAD. Field services include construction observation, surveying, and staking.

Agency Coordination, Report, and System Assessment experience including coordination with the Wisconsin Department of Natural Resources, Economic Development Administration, and Wisconsin and Illinois Department of Transportation and development of facility plans, system assessments, design reports.

PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers (ASCE)

YEARS OF EXPERIENCE

11

YEARS WITH FIRM

11

EDUCATION

B.S. Civil Engineering – University of Iowa, Iowa City, Iowa, 2014

REGISTRATION

Professional Engineer in Wisconsin, Illinois, and Iowa

Institute for Sustainable Infrastructure Envision Sustainability Professional

STRAND ASSOCIATES®

Mark A. Fisher, P.E.
Senior Associate

AREAS OF EXPERTISE

- Municipal Engineering
- Street and Utility Design and Construction
- Wastewater Conveyance
- Water Distribution Systems

PROFESSIONAL EXPERIENCE

Municipal Engineering experience includes street and utility design, construction observation, and contract administration; stormwater management studies; bike path design and construction; easements; site design; survey work; grant administration; and subdivision reviews. Area of specialty includes street and utility reconstruction projects in congested urban environments. Serves as City Engineer for Lancaster and Whitewater, Wisconsin, and is a municipal consultant for two other cities.

Business Park Development experience includes planning, design, construction observation, and contract administration for projects in Whitewater, Lancaster, and Darlington, Wisconsin.

Wastewater Conveyance experience includes sewer service planning studies for areas up to 2,600 acres. Design experience includes intercepting sewers, pumping stations, force main, and regulatory approvals. Led project team on fast-track design of sanitary sewers and pumping stations to serve approximately 1,000 homes in an unsewered subdivision. Construction experience includes contract administration and construction observation of interceptors and pumping stations.

Water Distribution System experience includes computer modeling of existing distribution systems and proposed system improvements, including elevated tanks, multiple pressure zones, and booster pumps as well as construction observation for water main installation and booster pumping station construction.

Construction Administration experience includes work on general municipal projects and wastewater treatment facilities.

- **Downtown East Gateway Reconstruction – Whitewater, Wisconsin** – Project Manager for $2.4 million reconstruction near the city's historic downtown area. Infrastructure included utilities, storm sewer, street construction/realignment, street lighting, streetscaping, and a railroad crossing. The project is located near Cravath Lake and Whitewater Creek, which required extensive interaction with regulatory agencies.
- **Lake Como Sanitary District, Wisconsin** – Led the fast-track design of new sewer and water systems for a 1,000-home subdivision with failing well and septic systems on the shores of Lake Como. This $25 million project included several miles of sanitary sewer and water main, four pumping stations, well and water treatment facility, and office building.
- **Bee Branch Channel Restoration – Dubuque, Iowa** – Team resource and Quality Control Engineer for the Bee Branch Channel Restoration project in Dubuque. This multiphase project, valued at more than $40 million, will provide flood mitigation in a heavily urbanized part of the city by removing dozens of homes and recreating a natural channel with environmental and recreational amenities. Extensive channel grading required significant utility relocations.
- **Lick Run Valley Conveyance System Design – Metropolitan Sewer District of Greater Cincinnati, Ohio** – Mark is providing quality control services for the channel and utility construction components for the design of this wet-weather control and stormwater conveyance project. This project serves as an alternate approach for CSO control within the Lick Run watershed and

YEARS OF EXPERIENCE
35

YEARS WITH FIRM
35

EDUCATION
B.S. Civil Engineering – University of Wisconsin-Platteville, 1990

REGISTRATION
Professional Engineer in Wisconsin

includes approximately 10 miles of storm sewer conveyance facilities, 1 mile of restoration to the historic Lick Run corridor and use of stormwater green infrastructure techniques.

- **Green Ambassador Urban Agriculture Design – Northeast Ohio Regional Sewer District, Cleveland, Ohio –** Providing quality control services for the stormwater conveyance system for the Urban Agriculture project in Cleveland. Project components include storm sewer, bioretention basins, and rain gardens. This project uses green infrastructure for CSO control, per the Consent Decree.

PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers

Andrew J. Breitkreutz

AREAS OF EXPERTISE

- Street Construction
- Storm Sewer Design
- Water Main and Sanitary Sewer Design
- Site Grading and Design

PROFESSIONAL EXPERIENCE

Municipal experience includes design for local roadways, water main, sanitary sewer, storm sewer, site design, preparation of contract documents, and permitting.

- **Whitewater, WI**
  - Jefferson Street Reconstruction (Ongoing) – Design of water main, sanitary sewer, and storm sewer improvements. Sidewalk and intersection improvements.
- **Sterling, IL**
  - Griswold Avenue Drainage Improvements (Ongoing) – Urbanization of rural corridor. Local sidewalk and storm sewer improvements. Preparation of RAISE/BUILD grant submittals.
  - North Street Neighborhood Drainage Improvements (Ongoing) – Urbanization of a rural corridor. Design of a five-point intersection. Local sidewalk and storm sewer improvements.
- **Lake Mills, WI**
  - Brookstone Development Phase VIII (2023) – Site grading for development of residential neighborhood. Design of water main, sanitary sewer, and storm sewer improvements.
  - Milton Street Reconstruction (2024) – Design and layout of tree protection plans. Design of water main, sanitary sewer, and storm sewer improvements.
- **Brooklyn, WI**
  - Brooklyn Business Complex Phase II (2023) – Site grading for development of business park, including cut/fill balance and protection of existing wetlands. Design of water main, sanitary sewer, and storm sewer improvements.
- **Oshkosh, WI**
  - Fernau Avenue Extension (2024) – Design of storm sewer improvements. Design of concrete jointing plans. Layout of traffic control and detour plans for STH 76.
- **Monroe, WI**
  - 31st and 32nd Avenue Reconstruction (2025) – Urbanization of a rural corridor. Design of sanitary sewer, water main, and storm sewer improvements. Sidewalk and intersection improvements.
- **Merrimac, WI**
  - School Street Reconstruction (Ongoing) – Roadway pulverization and sidewalk improvements. Design of stormwater improvements.

Field experience consists of utility observation of water main, sanitary sewer, and storm sewer installation, and construction observation of local streets.

- **Whitewater, WI**
  - North Freemont Street Reconstruction – Construction observation for water main, sanitary sewer, and storm sewer installation. Observation of roadway improvements in rural and urban areas.
  - Ann and Freemont Street Reconstruction (2024) – Construction observation for water main, sanitary sewer, and storm sewer installation. Observation of stormwater BMP maintenance and roadway improvements in urban areas.
  - Forest Avenue Reconstruction (2024) – Construction observation for water main, sanitary sewer, and storm sewer installation.

YEARS OF EXPERIENCE

4

YEARS WITH FIRM

3

EDUCATION

B.S. Civil Engineering – University of Wisconsin-Platteville, 2022

- Vanderlip Pumping Station and Force Main (Ongoing) – Construction observation of gravity sanitary sewer and force main installation. Observation of base course and intersection improvements.
- Lead Service Line Replacement (Ongoing) – Construction observation of water service line replacements. Observation of tree protection, sidewalk, and roadway restoration.

- **University of Wisconsin, Whitewater, WI**
  - LOT 19 Reconstruction (2024) – Construction observation of storm sewer improvements. Proof rolling and subgrade improvements.
- **New Glarus, WI**
  - 9th Avenue Reconstruction (2022) – Construction observation for storm and sanitary sewer installation, roadway construction, including base course, asphalt paving, and subgrade improvements.
  - 3rd Avenue Phase II Reconstruction (2023) – Construction observation for water main, sanitary sewer, and storm sewer installation. Additional observation for roadway construction, asphalt paving, and subgrade improvements.

- **Middleton, WI**
  - Aurora Street, Elmwood Avenue, and Parmenter Street Reconstruction (2023) – Construction observation for water main installation, sanitary spot repairs, and base course improvement along existing roadway.

Kyle R. White

AREAS OF EXPERTISE

- Surveying
- CADD Drafting
- Construction Observation

PROFESSIONAL EXPERIENCE

Surveying and Data Collection experience includes use of GPS, Total Station and Robotic Total Station equipment to accomplish the following:

- Topographic surveys
- Construction staking and layout
- Construction staking verification
- Final cross-sections

CADD experience includes the use of EaglePoint, MicroStation, AutoCad, Geopak, and MicroStation for the following:

- Processing construction layout information.
- Processing final cross-sections and generating earthwork quantities.
- Drafting plans.
- Creating record drawings.

Construction Observation services in the following communities:

- Prospect Street Phase 2, Lake Mills, Wisconsin.
- Elm Point Road Force Main, Lake Mills, Wisconsin.
- East State and North Washington Street Reconstruction, Bonduel, Wisconsin.
- Second Street Reconstruction Phase 1, New Glarus, Wisconsin.
- Second Street Reconstruction Phase 2, New Glarus, Wisconsin.
- Arrow Ridge Business Park, Lancaster, Wisconsin.
- Phase 2 Water Main, Algoma, Wisconsin.
- STH 59 Reconstruction (WisDOT), Edgerton, Wisconsin.
- Sheboygan Street, Campbellsport, Wisconsin.
- Contractor, client, and property owner relations.
- Reviewed quantities for pay requests.

YEARS OF EXPERIENCE

20

YEARS WITH FIRM

20

EDUCATION

A.S. Civil Engineering Technology – Morrison Institute of Technology, Illinois, 2005

Mark K. Shubak, P.E., CFM
Senior Associate

AREAS OF EXPERTISE

- Stormwater Management and Permitting
- Floodplain and Floodway Studies
- Hydrologic and Hydraulic Modeling
- Highway Drainage Engineering
- Municipal Engineering
- Site Civil Planning and Design

PROFESSIONAL EXPERIENCE

Stormwater Management and Permitting experience includes stormwater master planning, conservation and sustainable site design, stormwater conveyance and storage facility design for residential and commercial developments, soil erosion control design and monitoring, stormwater review engineer for municipal and county governments, and permitting experience with various municipalities, counties, and regulatory agencies. Performed permitting/planning services that included stormwater system mapping, stormwater and erosion control ordinances, public information and education programs, illicit discharge detection and elimination, stormwater pollution prevention plans (SWPPs), annual reporting and stormwater quality management planning including Stormwater Best Management Practice (BMP) alternatives analysis and design.

Stormwater Utility experience includes assisting municipal clients with development of stormwater utility feasibility studies and implementation plans, performing stormwater utility rate studies and cash flow analyses, leading and facilitating stormwater utility task force groups and technical advisory committees, generating public education and information programs, drafting stormwater utility ordinances and credit policies.

Best Management Practice Evaluation and Design experience includes managing wet weather with various stormwater green infrastructure technologies such as wet detention basins, bioretention ponds, constructed wetlands, infiltration basins, vegetated swales, rain gardens, green roofs, rain harvesting, downspout disconnection, permeable pavements, and establishment of riparian buffers.

Floodplain and Watershed Management experience includes hydraulic and hydrologic modeling, watershed planning, shoreline and streambank stabilization/restoration, bridge hydraulics, floodplain and floodway analysis, floodplain mapping, and FEMA NFIP requirements and standards.

Streambank Restoration Project experience includes several projects in Wisconsin, Illinois, Iowa, and West Virginia to restore highly degraded urban streams. These projects incorporated the following streambank restoration techniques: vegetated geogrids, vegetated boulder revetments, sack gabions, gabion mattress, instream ledge rock drops, coir fiber rolls, riprap, erosion mat (temporary and permanent), articulated concrete blocks, and in-line stormwater treatment devices. Project highlights have included serving as the lead stormwater and hydraulic engineer on the $25 million Bee Branch Creek Restoration project in the City of Dubuque, Iowa.

Highway Drainage Engineering experience includes comprehensive stormwater drainage analysis and design for major highway and bridge projects for Wisconsin Department of Transportation (WisDOT), Illinois Department of Transportation (IDOT), and Illinois State Toll Highway Authority. Projects have included stormwater master planning and design for the Highway 51/29 corridor in Marathon County, Wisconsin, Highway 12 between Baraboo and Lake Delton, Wisconsin, Verona Road/West Madison Beltline in Madison, Wisconsin, and Open Road Tolling Plazas in DeKalb and Dixon, Illinois.

Municipal Engineering experience includes design and construction of urban and rural streets, sanitary sewers, water mains, and stormwater conveyance and storage facilities as well as intercepting sewers and separation of combined sewers, construction observation and contract administration, and review of new development site plans and improvement plans for municipalities.

YEARS OF EXPERIENCE
32

YEARS WITH FIRM
25

EDUCATION
B.S. Civil Engineering – University of Wisconsin-Platteville, 1993

REGISTRATION
Professional Engineer in Wisconsin, Illinois, Iowa, Ohio, and Texas

Certified Floodplain Manager

STRAND ASSOCIATES®

Mark K. Shubak, P.E., CFM
Senior Associate

Site Civil Planning and Design experience with major site development projects involving parking, grading, soil erosion and sedimentation control, stormwater drainage and management, lighting, traffic, permitting, landscaping, utilities, and roadway systems with commercial, industrial, institutional, and/or retail developments.

Specific Project experience:

- **Lick Run Valley Conveyance System Planning and Design – Metropolitan Sewer District of Greater Cincinnati, Ohio** – Lead stormwater and hydraulics engineer during our planning and design phases to develop wet weather control strategies for stormwater conveyance as an alternate approach for CSO control within the Lick Run watershed. Mark has performed the hydrologic and hydraulic modeling, for both planning and design, of approximately 55,000 feet of storm sewer conveyance facilities, 5,600 feet of restoration to the historic Lick Run corridor, and numerous stormwater green infrastructure techniques throughout the watershed. Mark is serving as the Channel Team Leader for the design of the Lick Run Valley conveyance channel. In addition, he oversaw the water quality analysis for the proposed Lick Run solution utilizing WinSLAMM.
- **Bee Branch Channel Restoration – City of Dubuque, Iowa** – Lead stormwater and hydraulic engineer for the $45 million Bee Branch Creek Restoration Project. This flood mitigation project provided flood relief for 1,155 properties and included construction of 4,500 feet of open waterway. Tasks included performing dynamic hydrologic and hydraulic modeling using XPSWMM-2D, planning and design of the open waterway, development of flood profiles and floodplain mapping, implementation of stormwater green infrastructure measures, and permitting coordination with IDNR, USACOE, and FEMA.
- **Rapid Run Sustainable Watershed Evaluation – Metropolitan Sewer District of Greater Cincinnati, Ohio** – Lead technical advisor and QC engineer for our planning and preliminary engineering analysis for stormwater and flood control strategies within the Rapid Run watershed. Mark provided technical oversight for the hydrologic and hydraulic modeling and preliminary design of 16,000 feet of storm sewer conveyance facilities and 4,300 feet of stream restoration on 35 properties acquired as part of a FEMA Hazard Mitigation Grant.
- **Master Stormwater Services Contract – WisDOT** – Project Manager and lead stormwater engineer for numerous on-call stormwater and hydraulic planning and engineering projects that have included MS4 stormwater permit compliance, Illicit Discharge Detection/Elimination program development, stormwater system mapping, and hydrologic and hydraulic planning and design.
- **Stormwater Management Design Standards – City of Bastrop, Texas** – Project Manager and lead stormwater engineer that was responsible for drafting new stormwater management and drainage design standards for the rapidly developing community of Bastrop. Mark helped lead a robust and highly successful public engagement process that included attending multiple focus group meetings with development community representatives and affected stakeholders, conducting several public involvement meetings, and presenting the final technical design standards and ordinances to the City Council.
- **Bastrop Bayou Flood Gates and Detention Pond Flood Study – City of Richwood, Texas** – Project Manager and lead stormwater engineer for development a comprehensive flood mitigation plan that sought to relieve catastrophic Hurricane Harvey flood damage experienced by over 340 structures in the City of Richwood. The recommended flood control master plan included over $8.8 million in drainage improvement projects that includes five flood gates structures, a 50-acre-foot detention basin, 15,000 gpm flood pumping station and a flood control facility that will create 75-acre-feet of Bastrop Bayou floodplain storage.

PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers
- Illinois Association of Floodplain and Stormwater Management
- Wisconsin Association of Floodplain Stormwater, and Coastal Management

Jon H. Lindert, P.E., LEED® AP
Senior Associate

AREAS OF EXPERTISE

- Stormwater Conveyance and Management
- Stormwater Utilities
- Stormwater Quality Management
- Green Infrastructure
- Floodplain Analysis and Mapping
- Streambank and Natural Area Restoration

PROFESSIONAL EXPERIENCE

Jon's background is a unique blend of stormwater, water resource, municipal, and green infrastructure engineering experience. Many years of field experience in these areas alongside the necessary technical analyses have led to practical, buildable, and permittable designs of many types as described below.

Stormwater Grants/Funding Coordinator includes overseeing our stormwater grant writing program including the following programs: Urban NPS and Stormwater Grant, Targeted Runoff Management Grant, Municipal Flood Control Grant, Lake Planning/Management Grant, Dane County Urban Water Quality Grant, FEMA, and others. From these programs over the past 22 years, we have assisted our clients in obtaining 122 grants worth more than $13.4 million in Wisconsin for planning, design, and implementation of Stormwater BMPs.

Streambank Stabilization/Restoration – Planning, design, permitting, and construction observation of 24 streambank restoration projects totaling 7.3 miles for Oshkosh, Brookfield, Madison, UW-Madison, Fitchburg, and Milwaukee Metropolitan Sewerage District, Wisconsin; Columbus, Indiana; Morgantown, West Virginia, Cincinnati, Ohio; Dubuque, Iowa; and Mundelein, Forest Preserve District of DuPage County, and Naperville, Illinois. Streambank restoration techniques designed include vegetated geogrids and boulder revetments, littoral shelves, paddling access, stormwater treatment devices, riprap, coir fiber rolls, turf reinforcement mat (TRM), j-hook vanes, root wads, sack gabions, gabion mattress, ledge rock drops, coarse woody debris, aquatic habitat, and native plantings.

Sustainable Design – LEED/ISI Envision – Collaboration with our sustainability team and clients to integrate sustainable elements into all aspects of project designs.

Stormwater Best Management Practice (BMP)/Green Infrastructure and Storm Sewer Design – Analysis and design of storm sewers, culverts, detention ponds, dry to wet pond conversions, porous pavement, bioretention basins, bioswales, rain gardens, energy dissipaters, and infiltration basins for Wausau, Sheboygan, Whitewater, New Berlin, Bristol, UW-Madison, Omro, Oshkosh, MMSD, Wisconsin; Cincinnati and Cleveland (NEORSD), Ohio; Louisville and Sanitation District No. 1 of Northern Kentucky, Kentucky; City of Aurora, Illinois, and others.

Municipal/Civil Site Design/Park and Natural Area Design experience includes survey, analysis, design, permitting, easement writing, public informational meetings, construction observation, and project management for new streets, street reconstructions, utility extensions/rehabilitation, pump/lift stations, commercial and institutional building sites, public works facilities, and park and recreational facilities with projects for UW-Madison, City of Waupun, Town of Omro, Ashippun Sanitary District No. 1, City of Monona, Town of Omro Sanitary District No. 1, and Verona Area School District.

Stormwater Management Master Plans (SMP) and Floodplain Management – Project Manager for more than 14 stormwater management plans (including numerous floodplain and bridge analyses and mapping) aimed at reducing flooding utilizing state of the art modeling software (XPSWMM, HydroCAD, StormCAD, HEC-1, TR-55, HEC-HMS, Hydraflow Hydrographs, HEC-RAS, and HEC 2). Select client list includes Sheboygan, Madison, UW-Madison, Oshkosh, Kenosha, Onalaska, Whitewater, Dodgeville, Waupun, Marshfield, Rothschild, and WisDOT.

YEARS OF EXPERIENCE
32

YEARS WITH FIRM
32

EDUCATION
B.S. Civil/Environmental Engineering – University of Wisconsin-Platteville, 1993

REGISTRATION
Professional Engineer in Wisconsin, Illinois, Iowa, and Ohio

LEED® Accredited Professional – US Green Building Council

Jon H. Lindert, P.E., LEED® AP
Senior Associate

Phase 1 and 2 NPDES/WPDES Stormwater Permitting and Stormwater Quality Management Plans – From 2001 to 2024, performed permitting/planning services a part of Phase 1 for ten communities [Monona, Shorewood Hills, Maple Bluff, UW-Madison, Waunakee, Westport (T), Fox Point, Whitefish Bay, Brookfield (T), Lisbon (T)] and 22 Phase 2 communities (Manitowoc, Sheboygan, Sheboygan Falls, La Crosse, Onalaska, Stoughton, Rothschild, Whitewater, Portage, Weston, Schofield, Kronenwetter, Merrill, Marathon County, Sheboygan County, Cedarburg (T), Omro (T), Dunn (T), Pleasant Springs (T), UW-La Crosse, UW-Platteville, UW-Whitewater). Services included stormwater system mapping, stormwater and erosion control ordinances, public information and education programs, illicit discharge detection and elimination, stormwater pollution prevention plans (SWPPPs), annual reporting, infiltration testing, and stormwater quality management planning, including stormwater BMP alternatives analysis and design. Stormwater BMPs considered in the plans included bioretention basins, porous pavement, green roofs, traditional and underground wet detention ponds **(with and without enhanced phosphorous removal through chemical treatment),** cisterns/rain barrels, grassy pavers, infiltration, removal of impervious surfaces, vacuum street sweeping, and in-line stormwater treatment devices. State-of-the-art modeling software included WinSLAMM, P8, RECARGA.

Dredging/Rehabilitation experience includes planning, sediment sampling, design, permitting, and construction observation for dredging/ rehabilitation of degraded stormwater ponds, channels, and lakes for UW-Madison (five ponds and Lake Mendota), Bristol (Pond A), Oshkosh (Sawyer Creek), Wheaton, Illinois (Streams Lake), Dane County (Dorn Creek), Monona (Winnequah Park Lagoon), and Stoughton.

PRESENTATIONS/PUBLICATIONS

- **Awards** – Ecological Restoration in UW-Madison Arboretum (2022): APWA WI; Secret Pond and Channel Restoration in UW-Madison Arboretum (2012): APWA WI and ASCE; Angler's Cove Restoration, UW-Madison (2006): ACEC and WI DOA.
- **Publications** – **XPSWMM website White Paper:** Urban Stormwater Analysis: Entering the 2nd and 3rd Dimension; **Rock River Reflections Newsletter:** UW-Madison Arboretum Secret Pond: Restoration Project Addresses Erosion and Water Quality Issues
- **Presentations – CSWEA Stormwater Webinar:** Eco-Restoration in UW-Madison Arboretum (2025), Dorn Creek Legacy Sediment Dredging (2018), **Waukesha County Workshop:** Eco-Restoration in UW-Madison Arboretum (2021), TP Credit for Leaf Collection Programs (2020), Innovative Green Infrastructure of the Midwest (2017); **MMSD Conference:** Improved Leaf Collection Pilot Study in Madison & Stormwater Retrofits in Monona (2016); **WAFSCM:** Stormwater Quality and Quantity Control in Monona's Tight Spaces (2021), TP Credit for Leaf Collection Programs (2020), Yahara CLEAN Engineering Report for the Clean Lakes Alliance (2012); **FWWA:** Stormwater Quality and Quantity Control in Monona's Tight Spaces (2022), Eco-Restoration in UW-Madison Arboretum (2021), Lake Wingra Watershed Plan (2015), Yahara CLEAN Engineering Report for the Clean Lakes Alliance (2012), Green Infrastructure-When Mandated Meets Discretionary (2011), BMPs and Rehabilitation in the University of Wisconsin-Madison Arboretum (2005); **APWA:** Small-Scale and Large-Scale Green: Two Approaches (2010); **SCOPE:** NR 151 Revisions (2008), Detention Basin Dredging and Maintenance (2006)

PROFESSIONAL AFFILIATIONS

- Rock River Coalition Board (2022-2025); American Society of Civil Engineers (ASCE) – Wisconsin Section (Past-President 2014-2015, President 2013-2014, Various Positions 2008-2013); ASCE – Southwest Branch (President 2007, Various Committees and Positions 2001 to 2007), Fox-Wolf Watershed Alliance
- Committees – CSWEA-WI Section: Watershed and Stormwater Committee (2014-2025); Clean Lakes Alliance: Committee on Strategic Implementation (2017-2022); WDNR's TMDL-MS4 Urban Stormwater Technical Team (2012-2014), Madison Area Municipal Stormwater Partnership Permit and Stormwater Monitoring Committees (2001-2008)

Daniel J. Johnstone, E.I.T.

AREAS OF EXPERTISE

- Stormwater Conveyance and Management
- Stormwater BMP and Green Infrastructure Design
- Stormwater Quality Management
- Stormwater Maintenance, Inspections, and Planning
- Municipal Engineering

PROFESSIONAL EXPERIENCE

Stormwater Conveyance and Management experience:

- Conducted XP-SWMM2D modeling for existing conditions and flood mitigation alternatives for a highly urbanized and flood prone 656-acre watershed for the City of Manitowoc, Wisconsin.
- Conducted XP-SWMM2D modeling for existing conditions and flood mitigation alternatives for four highly urbanized and flood prone watersheds with a total of just over 3,000 acres in the City of Fond du Lac, Wisconsin
- Performed a hydrology and hydraulic analysis of a watershed with two pumping stations using XP-SWMM2D in the City of Davenport, Iowa.
- Conducted XP-SWMM2D modeling for existing conditions and flood mitigation alternatives for highly urbanized and flood prone watersheds with a total of 1,315 acres in the City of Cedar Falls, Iowa.

Stormwater Quality Management experience:

- Completed stormwater quality management plans for the cities of Manitowoc, Marshfield, La Crosse, and Wausau; the Town of Brookfield; and Marathon County, Wisconsin, using WinSLAMM v10.5. The plans included existing conditions modeling and alternatives analysis development and OPCC creation.

Stormwater BMP and Green Infrastructure Design experience:

- Modeled, designed, managed, and performed Resident Project Representative activities for the installation of a hydrodynamic separator in the City of Stoughton, Wisconsin.
- Modeled, designed, and managed the dredging of a wet detention basin in the Village of Waunakee, Wisconsin.
- Conducted field topographic survey, stormwater quality and quantity modeling, design, and permitting for a dry-to wet-detention basin conversion project in the City of Sheboygan, Wisconsin.
- Modeled, designed, and managed the restoration of streambank along an 1,100-foot section of stream in the City of Fitchburg, Wisconsin.

Stormwater Maintenance, Inspections, and Planning experience:

- Managed three projects that inspected 21 stormwater BMPs in the Village of Waunakee, Wisconsin. The inspections included sediment depth surveys, topographic surveys, and BMP forms.
- Performed hydraulic conductivity testing for the City of Stoughton, Wisconsin, at two different bioretention basins using the double-ring infiltrometer testing method and the Modified Philip Dunne method.
- Conducted Illicit Discharge Detection and Elimination (IDDE) screenings for more than 100 outfalls in the City of Sheboygan, Wisconsin.
- Developed numerous successful stormwater-related grant applications, including WDNR UNPS construction and Planning Grants, FEMA BRIC Grants, Clean Water Fund ITA-PERF, and Dane County, Urban Water Quality Grant.

Municipal Engineering experience:

- Managed a feasibility study that investigated five different alternatives to best optimize the reconstruction of a street in the Village of Merrimac, Wisconsin

Computer Software experience includes XP-SWMM 1D & 2D, HydroCAD, StormCAD, WinSLAMM, AutoCAD Civil 3D, ArcMap, ArcGIS Pro, HEC-RAS, and HEC-HMS.

YEARS OF EXPERIENCE

4

YEARS WITH FIRM

3

EDUCATION

B.S. Biological Systems Engineering – University of Wisconsin-Madison, 2021

REGISTRATION

Engineer-in-Training

STRAND ASSOCIATES®

Ryan D. Wood, P.E.
Senior Associate

AREAS OF EXPERTISE

- Water Resources
- Water Storage Tank Design and Inspection
- Water Treatment
- Municipal Engineering Services
- Water Supply

PROFESSIONAL EXPERIENCE

Design and **Construction Management** experience includes managing project and project terms from preliminary design, final design, bidding, services, and construction-related services. Experience includes managing teams of 5 to 20 staff for source water, water treatment, water storage, site improvements, and administrative facility projects with project construction costs ranging from under $100,000 to more than $15,000,000.

Quality Assurance and **Control** experience includes technical reviews of source water design and rehabilitation, water treatment and facility projects, and water storage new construction and rehabilitation. Experience also includes quality assurance in reviewing project schedules, opinions of probable construction costs, and assisting junior staff to facilitate quality projects that meets project schedules.

Water System experience includes knowledge of regional aquifer characteristics and bedrock geology, well siting, wellhead protection and computing water system modeling and analysis of water distribution systems using WaterCAD and WaterGems programs. Modeling experience includes model assembly, calibration, and steady-state modeling. Models used to aid engineering decisions regarding current and future water distribution system needs.

Water Treatment experience includes chemical feed and treatment system design and construction observation for arsenic, iron, manganese, radium, and volatile organic compounds. Treatment systems utilized includes absorption, adsorption, air stripping, chemical dosing, and filtration.

Water Quality Remediation Studies and **Reports for Water Systems** experience includes pilot set-up, daily maintenance, sampling, water chemistry testing, and data analysis. Reports include contaminant removal goals, overall treatment process, sampling methods, data analysis, conclusions, and recommendations for full-scale design.

Facility Design and **Construction** includes design, project management, and construction observation experience for well, booster station, treatment plant, utility garage, and administration office facilities.

Hydraulic experience includes submersible turbine, centrifugal, positive-displacement, grinder, and other potable water and sludge waste pumps. Hydraulic experience also includes storm, sanitary, and water main design and construction observation.

Water Storage Tank experience includes preparing contract documents both new storage facilities and rehabilitation of existing storage facilities. Involvement also includes climbing and inspecting elevated and ground-level storage tanks, preparing inspection reports, and preparing and submitting all necessary related agency forms. Experience also includes reviewing proposed cellular modifications and additions on water towers and conducting field observations of corresponding work.

Municipal Engineering Services includes serving as the Village Engineer for Capron, Illinois. Involvement includes capital improvement and maintenance planning, reviewing development projects and other Village related duties. Experience also includes reviewing development and stormwater submittals for other municipalities.

PROFESSIONAL AFFILIATIONS

- American Water Works Association (AWWA)
  - AWWA-Wisconsin Section Senior Trustee, 2025
  - AWWA-Wisconsin Section Trustee, 2022-2024
- 2012 Wisconsin Section AWWA Young Professional of the Year

YEARS OF EXPERIENCE

19

YEARS WITH FIRM

19

EDUCATION

B.S. Civil and Environmental Engineering – University of Wisconsin-Madison, 2006

REGISTRATION

Professional Engineer in Wisconsin and Illinois

STRAND ASSOCIATES®

Travis J. Anderson, P.E.

AREAS OF EXPERTISE

- Environmental Engineering
- Wastewater Treatment Plant (WWTP) Design
- Construction Project Management

PROFESSIONAL EXPERIENCE

Wastewater Treatment Design experience includes a wide variety of improvements, such as rehabilitation of the anaerobic digestion structure at the Kankakee Metropolitan River Agency (KRMA) in Kankakee, Illinois; filtration upgrades and UV disinfection facilities in Waukesha, Wisconsin; and biological and chemical phosphorus removal for Salem Lakes, Wisconsin. Travis has also provided plan development services and developed user charge systems for several communities.

Travis provided engineering design and construction project management for the $44.9M Clean Water Plant (CWP) improvements in Waukesha, Wisconsin. During this 29-month-long construction project, Travis performed a variety of duties, including full-time construction observation, process-related training, development of the project operation and maintenance manual, responding to the contractor's requests for information, reviewing project submittals, and facilitating overall project communication. The project was completed in the summer of 2016 with nearly $0 net change orders.

Project Management experience includes the design of numerous innovative wastewater projects, such as the addition of primary sludge fermentation at Delafield-Hartland, Wisconsin; biosolids drying at Fond du Lac, Wisconsin; low-level phosphorus removal at New Glarus, Wisconsin; and low dissolved oxygen activated sludge at Ames, Iowa. Travis has also managed anaerobic digestion heating projects such as cogeneration and boiler improvements at Ames, Iowa, and complete digester heating system replacement at Waukesha, Wisconsin.

Travis provided project management for master plan development at the Town of Salem Utility District. The master plan for the collection system and WWTP outlined required long-term improvements and served as a financial planning document for the Village. Travis also provided project management during design for the recommended improvements at the WWTP, including new equipment and infrastructure for influent pumping, screening, grit removal, primary clarification, biological phosphorus removal (BPR), secondary clarification, ultraviolet disinfection, and effluent pumping.

Phosphorus-Related experience includes providing Wisconsin Pollution Discharge Elimination System (WPDES) permit assistance for many Wisconsin communities during the past several years, including Waukesha, Bristol, Horicon, Whitewater, New Glarus, and Brooklyn. Travis has assisted in several phosphorus removal pilot studies, including the evaluation of new filtration and ballasted clarification technologies. Travis is also actively working with plant staff at different treatment facilities to identify alternative coagulants that could potentially be more effective than the traditional chemicals typically used for phosphorus removal.

Air Permitting experience includes completing construction and operation air permit applications for the Fond du Lac Water Pollution Control Plant in Fond du Lac, Wisconsin; a Type A registration permit application for Stoughton Utilities in Stoughton, Wisconsin; a Type A registration permit for the Watertown WWTP in Watertown, Wisconsin; a Type A registration permit for the Waukesha WWTP in Waukesha, Wisconsin; and a Type A registration permit for the Salem WWTP in Salem Lakes, Wisconsin.

PROFESSIONAL AFFILIATIONS

- Central States Water Environment Association, Wisconsin
- Wisconsin Wastewater Operators Association, Wisconsin

YEARS OF EXPERIENCE

15

YEARS WITH FIRM

15

EDUCATION

M.S. Environmental Engineering – University of Iowa, 2010

B.S. Environmental Engineering – University of Wisconsin-Platteville, 2008

REGISTRATION

Professional Engineer in Iowa and Wisconsin

Nathan R. Taylor

AREAS OF EXPERTISE

- Wastewater Treatment, Planning, Design, and Construction
- Sanitary Sewer Collection System Assessment
- User Rate Development

PROFESSIONAL EXPERIENCE

Wastewater Treatment Design experience:

- Participate in facilities planning and preliminary design for municipal wastewater treatment facilities including process evaluation, flow and loading projections, alternatives analysis, and fiscal impact analysis.
- Participated in hydraulic calculations and evaluation of wastewater treatment facilities including pump stations, force mains, and gravity flow hydraulics.
- Develop construction documents for improvement projects and coordinate agency submittal requirements.
- Submit application and supporting materials required for state and federal funding.

Sanitary Sewer Collection System Assessments experience:

- Participated in collection system structure assessments.
- Participated in field observations to identify sources of Infiltration and Inflow.
- Generated recommendations for rehabilitation of collection system components based on field observations.

User Rate Study experience:

- Develop user rates by identifying the users of the utility, breaking down expenses to unit costs of the primary constituents in wastewater and developing equitable use rates in accordance with Wisconsin Administrative Code.

YEARS OF EXPERIENCE

3

YEARS WITH FIRM

3

EDUCATION

B.S. Environmental Engineering – University of Wisconsin-Platteville, 2021

STRAND ASSOCIATES®

Troy A. Larson

AREAS OF EXPERTISE

- Wastewater Operations Specialist
- Wastewater Treatment Plant Operator Training
- Wastewater Laboratory Analysis
- Wastewater Process Control
- Wastewater System Date Management
- Biological Wastewater Treatment

PROFESSIONAL EXPERIENCE

Operations Specialist experience includes start-up services, operator training, microscopy evaluations, and troubleshooting.

Wastewater Treatment Operator experience includes operating, monitoring, and controlling a high-rate anaerobic and aerobic wastewater treatment system for a high-strength dairy wastewater.

Wastewater Treatment Plant Start-Up and Operator Training experience includes monitoring and controlling a wastewater treatment plant during major upgrades.

Lab Analysis experience includes performing an analysis on wastewater and groundwater, including quality control, and reporting of the data following the analysis.

Waste Removal experience includes safe and proper application of wastewater treatment sludge, and industrial and crop wastes to farmland.

Wastewater System Data Management experience includes assistance with the organization and set up of data management databases.

Utility Construction Observation on various municipal projects.

Project Management experience related to planning studies, wastewater operations, and groundwater monitoring-related services as well as treatment plant planning and construction projects.

Pollutant Minimization Project experience includes industry and community involvement in mercury source-control projects.

Industrial Wastewater Characterization experience includes evaluation of products, raw materials, cleaning chemicals, and other factors that might affect wastewater treatment and pretreatment systems.

Trainer/Facilitator experience includes conducting 100s of training and workshop sessions designed to improve coordination and communication between operations and design teams.

Operability Quality Control Specialist experience includes participating in design efforts to identify user friendly options for cleaning, monitoring, controlling and maintaining future processes while including the operations staff in the design process.

CONTRIBUTING AUTHOR

- *Biological Nutrient Removal Operation in Wastewater Treatment Plants*. Published as Manual of Practice 29 by the Water Environmental Federation (WEF), American Society of Civil Engineers (ASCE) and Environmental and Water Resources Initiative (EWRI).

PROFESSIONAL AFFILIATIONS

- Water Environment Federation
- Wisconsin Wastewater Operators Association (WWOA)
- Central States Water Environment Association
  - Wisconsin Section Operations Chair
  - Association Vice President
  - 7s Society Member

YEARS OF EXPERIENCE

32

YEARS WITH FIRM

29

EDUCATION

B.S. Biology – University of Wisconsin-Whitewater, 1995

REGISTRATION

Certified Wastewater Operator in Wisconsin

Kyle R. Henderson, P.E.

AREAS OF EXPERTISE

- Traffic Modeling
- Civil Engineering
- Construction Observation

PROFESSIONAL EXPERIENCE

Traffic/Corridor Study experience includes the preparation of traffic impact studies and corridor improvement plans for several projects, including the following:

- Floyd County Thoroughfare Plan, Floyd County, Indiana
- Floyd County Thoroughfare Plan Update, Floyd County, Indiana
- US 41 Interstate Conversion, Southeastern and Northeastern Wisconsin
- WIS 100 Traffic Study, Milwaukee County, Wisconsin
- WIS 172 Corridor Study, Green Bay, Wisconsin
- WIS 20 Vision Study, Racine and Walworth County, Wisconsin
- WIS 83 Alternate Route Analysis, Mukwonago, Wisconsin
- Northwestern Avenue Traffic Study, Racine, Wisconsin
- Durand Avenue Traffic Study, Racine, Wisconsin
- IL 47 Reconstruction, Woodstock, Illinois
- IH 39 and WIS 11(Avalon Road) Diverging Diamond Interchange, Janesville, Wisconsin
- Madison Beltline Planning and Environmental Linkages (PEL) Study, Madison, Wisconsin
- Montgomery Road and SR 126 Interchange Conversion Montgomery, Ohio
- Citywide Speed and Travel Time Study, Prescott Arizona
- Research Forest Drive and Lake Woodlands Drive Traffic Analysis – Montgomery County Precinct #3, Texas
- Madison Bus Rapid Transit East/West Corridor – Madison, Wisconsin
- Madison Bus Rapid Transit North/South Corridor – Madison, Wisconsin
- Central Parkway Reconstruction Traffic Analysis – Cincinnati, Ohio

Duties included collecting field traffic data, preparing traffic forecast reports, assembling traffic data, performing traffic modeling, and preparing reports.

Traffic Modeling – Proficient in traffic modeling and analysis programs, including Synchro/SimTraffic, VISTRO, HCS, RODEL, Paramics, and VISSIM. Has developed and evaluated several extensive and detailed traffic simulation models including the following:

- VISTRO models of several interchanges on the I-39/90 corridor in Dane County to evaluate interchange improvements and a new interchange at I-94 and Milwaukee Street.
- Synchro models for the Stoughton Road South Corridor (Terminal Drive through Milwaukee Street) in Madison, Wisconsin.
- Synchro models evalutating the impact of both the East-West and North-South Bus Rapid Transit corridors on major roadways in Madison, Wisconsin.
- Paramics model of I-94 in St. Croix County from the Minnesota State Line to the US 63 Interchange, including 23 miles of freeway, five service interchanges, two system interchanges, and numerous traffic signal and roundabout intersections.
- Paramics models of the I-43/US 41/WIS 172 Freeway Loop in Green Bay, Wisconsin, including more than 40 miles of freeway, 14 service interchanges, five system interchanges, and numerous complex three-lane roundabout intersections.
- US 151/Verona Road Beltline Interchange modeling in Madison, Wisconsin.
- Complex roundabout-corridor simulation for WIS 21, Breezewood Lane, and Packerland Drive in northeast Wisconsin.

YEARS OF EXPERIENCE

18

YEARS WITH FIRM

18

EDUCATION

B.S. Civil Engineering – University of Wisconsin-Platteville, 2006

REGISTRATION

Professional Engineer in Wisconsin and Illinois

Kyle R. Henderson, P.E.

Intersection Control Evaluation experience includes completion of more than 80 Intersection Control Evaluations (ICE) including the analysis of several roundabout intersection alternatives.

Roundabout Intersection Design experience includes numerous intersections where initial conceptual roundabout geometrics were provided for intersection control evaluations as well as being the principal designer for several roundabouts that have been constructed or will be within the next 2 years. Designated by the Wisconsin Department of Transportation (WisDOT) as a Level 2 Qualified Roundabout Designer.

Conceptual roundabout designs for intersection control evaluations include the following locations:

- STH 19 and CTH Q, Waunakee, Wisconsin
- STH 19/STH 113/CTH I, Westport, Wisconsin
- STH 69 and CTH PB, Paoli, Wisconsin
- IH 39 and STH 11(Avalon Road), Janesville, Wisconsin
- STH 100 and Drexel Avenue, Hales Corners, Wisconsin
- IH 94 and STH 65 Interchange, Roberts, Wisconsin
- IL Rte 47 and Lake Avenue, Woodstock, Illinois

Full design plans for roundabout intersections include the following locations:

- STH 55 and CTH CE, Kaukauna, Wisconsin
- Sand Lake Road and Riders Club Road, Onalaska, Wisconsin
- Northwestern Avenue (STH 38) and Spring Street, Racine, Wisconsin
- Northwestern Avenue (STH 38) and High Street/Albert Street, Racine, Wisconsin
- USH 12 and STH 120 Interchange, Lake Geneva, Wisconsin
- Janesville Road (STH 24) and Forest Home Avenue, Hales Corners, Wisconsin
- USH 51 and STH 138, Stoughton, Wisconsin
- USH 51 and Hoel Avenue/Silverado Drive, Stoughton, Wisconsin
- USH 51 and CTH B/AB, Town of Dunn, Wisconsin
- 153rd Street and Ravinia Avenue, Orland Park, Illinois

PROFESSIONAL AFFILIATIONS

- Institute of Transportation Engineers (ITE)

Evan J. Constant, P.E.

AREAS OF EXPERTISE

- Structural Engineering
- Report Services
- Construction Observation
- Project Management
- Structure Inspection
- Drafting

PROFESSIONAL EXPERIENCE

Design Services experience utilizing software, including RISA 3D/Foundation, Analysis Group, Enercalc, Bentley LEAP Bridge Enterprise, MicroStation, and AutoCAD to design metal buildings, masonry buildings, bridges, retaining walls, pump stations, well facilities, and wastewater treatment structures. Additional project experience includes preparing cost estimates and Wisconsin Department of Transportation (WisDOT) plans, reviewing shop drawings, and utilizing COMcheck to ensure new building construction meets current energy codes.

Specific projects include the following:

- Fox River Water Reclamation District Pumping Station 31 Replacement – Elgin, Illinois
- 4th and 13th Street Pump Station Improvements – Huntington, West Virginia
- Joliet Wet-Weather Treatment Facility – Joliet, Illinois
- Multiple Sub-Zero Facilities Projects – Fitchburg, Wisconsin
- West Side Town Square Improvements – Janesville, Wisconsin
- US 18/151 and Verona Road Reconstruction – Madison, Wisconsin
- Iowa Amphitheater at Schmitt Island – Dubuque, Iowa
- Mars Chocolate North America Warehouse Expansion – Waco, Texas
- Stoughton Trailers Line Expansion – Stoughton, Wisconsin
- Madison Gas and Electric Office Space Expansion – Madison, Wisconsin
- Conagra Brands Corn and Pea Processing Facility – Waseca, Minnesota
- Phosphorus Removal Modifications Project – Theresa, Wisconsin

Project Manager on the following projects:

- MilliporeSigma Lateral Flow Membrane Production Facility – Sheboygan Falls, Wisconsin
- Burgess Norton 500-Ton Press Pit – Beaver Dam, Wisconsin
- Vehicle Storage Garage – Whitewater, Wisconsin
- Fire Department Renovations – Whitewater, Wisconsin
- Emmi Roth USA Brine Room Bridge Crane Addition – Monroe, Wisconsin

Field Services experience include construction observation of the installation of subgrade, steel piling, abutment and bridge deck reinforcement, and concrete placement for the following projects:

- Fadness Road to London Road, WIS 73 Reconstruction – Deerfield, Wisconsin
- Plainview Road Bridge Construction – Town of Lisbon, Wisconsin
- CTH K to CTH H East Branch Pecatonica River Bridge – Moscow, Wisconsin
- Town of Brigham, Clay Hill Road Gordon Creek Bridge – Brigham, Wisconsin

Additional Field Services include structural inspection and inventory of structures and buildings for the following projects:

- Condition Assessment of Water Treatment Facilities – East Moline, Illinois
- City Bridge Inventory and Plan of Repair – Monona, Wisconsin
- Emmi Roth USA Precast Floor Plank Sounding, Replacement and Reinforcement – Monroe, Wisconsin
- Thorn Creek Basin Sanitary District 5-Year Capital Improvement Program – Chicago Heights, Illinois

PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers (ASCE)
- Structural Engineering Institute (SEI)

YEARS OF EXPERIENCE

10

YEARS WITH FIRM

10

EDUCATION

B.S. Civil Engineering – University of Wisconsin-Platteville, 2015

REGISTRATION

Professional Engineer in Wisconsin, Iowa, and Kansas

Mary E. Seehafer, P.E.

AREAS OF EXPERTISE

- Water and Wastewater Treatment Process Controls
- Power Distribution
- SCADA System Graphic User Interface Development
- Facilities Electrical Design
- Roadway Lighting Design
- Sports Lighting

PROFESSIONAL EXPERIENCE

Municipal Electrical System experience includes design of water and wastewater system power distribution and standby power systems, process instrumentation and controls including PLC-based control systems using industrial Ethernet networks, remote telemetry (radio and cellular), communication systems (voice and data), and development of control algorithms for both new and existing systems.

Experience also includes electrical design of new facilities, upgrading and adding to existing facilities, power monitoring for harmonics and related electrical problems, and analysis of building electrical systems with respect to applicable codes. Design experience for these types of projects includes complete building power distribution layout, distribution upgrades and modifications, and on-site data collection.

Projects include the following:

- Bittersweet WRF Electrical Design – Bartlett, Illinois
- Crest Hill West STP Electrical Design – Crest Hill, Illinois
- Madison Metropolitan Sewerage District Pump Stations 7, 11, and 12 – Madison, Wisconsin
- NEW Water Air Compressor Replacement, Sodium Bisulfite Additions, Pump Station HVAC Upgrades – Green Bay, Wisconsin
- Cedar Rapids WPCF Unit Substation Replacement – Cedar Rapids, Iowa
- West Bend Water Utility SCADA System High Frequency Radio Upgrades – West Bend, Wisconsin

Industrial Electrical System experience includes design of electrical distribution, lighting and control systems for industrial and food processing plants. Experience in electric service to plant, analysis and modification of existing systems, plant communication network analysis and expansion, building automation system evaluation and expansion, P&ID preparation, and construction observation. Familiar with requirements for food processing areas including sanitation and wash down and effect on electrical system design.

SCADA System Graphic User Interface experience includes development and maintenance of computer-based graphics as the operator interface for water and wastewater plants. User interface development includes development of automatically generated State and operational reports.

Projects include the following:

- Waunakee Utilities Water System SCADA System – Waunakee, Wisconsin
- Moline North Slope WWTP Electrical SCADA System – Moline, Illinois
- Mount Horeb WWTP SCADA System – Mount Horeb, Wisconsin

Lighting Design experience includes design of new and retrofit lighting systems, lighting controls, and ramp gate systems. Design experience for these types of projects includes photometric analysis to meet local, state, and national guidelines, power distribution layout, and LED lighting cost-benefit analysis. Provided lighting design on the following projects:

- US 18/151 – Verona Road, Madison, Wisconsin
- CTH PD/McKee Road – Fitchburg, Wisconsin
- Lick Run VCS Corridor Lighting and Electrical Design, MSDGC – Cincinnati, Ohio

YEARS OF EXPERIENCE

13

YEARS WITH FIRM

13

EDUCATION

B.S. Electrical Engineering – University of Wisconsin-Madison, 2012

REGISTRATION

Professional Engineer in Kentucky, Minnesota, Nebraska, Oklahoma, Texas, and Wisconsin

Tyler B. Niemuth, E.I.T.

AREAS OF EXPERTISE

- Construction Observation
- Sanitary Sewer, Force Main, and Storm Sewer Design
- Surveying
- Water Main and Site Design
- General Municipal Engineering

PROFESSIONAL EXPERIENCE

Municipal experience includes design for local roadways, water main, sanitary sewer, storm sewer, site design, preparation of contract documents, and permitting.

Field experience consists of utility observation of water main, sanitary sewer, and storm sewer installation, and construction observation of local streets. Tasks include construction staking, construction observation, public involvement, testing, and review of contractor payment applications and preparation of record drawings.

Projects include:

- **Whitewater, Wisconsin**
  - Vanderlip Pumping Station and Force Main
  - Southwest Water Main Extension
  - North Side Water Main Extension
  - Walworth Avenue Drainage Improvements
  - Forest Avenue Reconstruction
- **Stoughton, Wisconsin**
  - Magnolia Development
  - Isham Street Extension
  - Kettle Park West Development
  - Fourth Street, Fifth Street, and South Street Reconstruction
  - Mandt Park Phase 1
- **Westport, Wisconsin**
  - Yahara Estates
- **Middleton, Wisconsin**
  - TID #5 Engineering
- **Town of Brookfield, Wisconsin**
  - Davidson Road Reconstruction
  - Weyer Road Drainage Improvements
- **Prairie due Sac, Wisconsin**
  - Fieldstone II Subdivision Development
  - Holly Court, Winnie Avenue, and 7th Street Reconstruction
- **Stevens Point, Wisconsin**
  - Michigan Avenue Reconstruction
- **Portsmouth, Ohio**
  - New Water Treatment Plan Construction

YEARS OF EXPERIENCE

3

YEARS WITH FIRM

3

EDUCATION

B.S. Civil Engineering – University of Wisconsin-Platteville, 2021

REGISTRATION

Engineer-in-Training

Luke T. Hellermann, P.G.

AREAS OF EXPERTISE

- Environmental Documentation
- Site Redevelopment and Waste Management
- Contaminated Site Investigation
- Environmental Compliance and Permitting
- Hydrogeologic Site Characterization
- Groundwater Flow Modeling

PROFESSIONAL EXPERIENCE

includes environmental analysis, environmental impact studies, and public involvement for the preparation of NEPA- and WEPA-compliant environmental documents. For WisDOT transportation projects, environmental documentation has included CEC-, ER-, EA-, and EIS-level documents. For non-transportation projects that have utilized federal funds, ER- and EA-level documentation has been completed. Familiar with necessary federal and state agency coordination and impact analysis, including effects to archaeological and historical properties, noise impacts, contaminated sites, indirect and cumulative effects, environmental justice, as well as effects to the natural environment.

Site Redevelopment and Waste Management experience includes site investigation, redevelopment planning, and remediation for redevelopments projects in Ohio, Illinois, Iowa, Texas, and Wisconsin. Evaluated contaminated material reuse and treatment/disposal options for numerous construction projects and has written contract special provisions and Material Handling Plans for management and reuse of wastes. Construction projects requiring these services have included urban redevelopment areas, stormwater channels and ponds, new industry and utilities, treatment plants, and numerous transportation projects, including local roads and bridges to lengthy highway corridor reconstruction such as WIS 13, WIS 23, US 12, and US 51.

Groundwater Flow Modeling experience includes municipal well and remediation well zone of influence and capture zone delineation and well field siting, design, and analysis. Modeling efforts have evaluated potential aquifer yields, well interference, and potential impacts to sensitive receptors such as springs and wetlands. Has completed assessments of regional aquifers and citywide wellhead protection areas. Has analyzed field data for aquifer characterization and remediation system design. Refined large, countywide groundwater flow models for well field evaluations. Proficient in the use of the following groundwater modeling programs and supporting software – Groundwater Vistas, MODFLOW, and MODPATH.

Contaminated Site Investigation and Remediation experience includes designing and implementing numerous contaminated site investigations to define the vertical and horizontal extent of contamination. Designed and implemented soil, sediment, air, and water sampling programs; aquifer slug tests, pump tests, and tracer tests; and completed hydraulic data collection and interpretation for hydrogeologic assessment reports, groundwater modeling, and remedial action plans.

CONTINUING EDUCATION

- University of Wisconsin-Extension
  - OSHA 40-hour Health and Safety Training, 1991
  - OSHA 8-hour Managers' Training, 1991
  - OSHA Annual 8-hour Refresher Training, Current
- Microbial Processes in the Degradation of Groundwater Contaminants – City of Louisville, Kentucky, 1992
- Wright State University IRIS Program – Modeling Groundwater Flow, 1994
- Improving the Performance and Analysis of Slug Tests – City of Madison, Wisconsin, 1999
- WDNR Air Enforcement Seminar – City of Milwaukee, Wisconsin, 2000
- Low-Cost Remediation Strategies for Contaminated Soil and Groundwater – City of Milwaukee, Wisconsin, 2001

YEARS OF EXPERIENCE

35

YEARS WITH FIRM

31

EDUCATION

B.S. Geology – University of Wisconsin-Madison, 1990

REGISTRATION

Professional Geologist in Wisconsin

Luke T. Hellermann, P.G.

- The MODFLOW Course, Using Visual Modflow – City of Orlando, Florida, 2001
- Brownfield Grant Application Writing Seminar – City of Madison, Wisconsin, 2004
- EPA's All Appropriate Inquiry Rule – City of Chicago, Illinois, 2005
- NEPA and Transportation Decision-Making – City of Madison, Wisconsin, 2006
- NEPA Indirect and Cumulative Effects Training, WisDOT – City of Madison, Wisconsin, 2006
- Webinar-Efficient NEPA Environmental Reviews for Project Decision Making, FHWA – City of Madison, Wisconsin, 2007
- American Water Resources Association, Wisconsin Section Annual Meeting – City of Brookfield, Wisconsin, 2008 Wisconsin
- Groundwater Association, Annual Meeting – City of Brookfield, Wisconsin, 2008
- Midwest Groundwater Conference – City of Dubuque, Iowa, 2008
- NEPA Environmental Justice Webinar – City of Madison, Wisconsin, 2012
- Webinar, NEPA Section 106, Transportation Research Board (TRB), 2019
- PFAS: Life Cycle, Regulations and Solutions, 2019
- Section 106 Training, Webinar hosted by WisDOT and SHPO, 2021 and 2024
- Endangered Species Act Training, Webinar hosted by WisDOT and FHWA, 2024

PRESENTATIONS/PUBLICATIONS

- 53rd Annual Midwest Groundwater Conference, 2008 – Well Field Siting Using a Regional Groundwater Flow Model, Fond du Lac County, Wisconsin

Heather S. Bartelt, PLS

AREAS OF EXPERTISE

- Surveying
- CADD Design
- 3-D Laser Scanning

PROFESSIONAL EXPERIENCE

Surveying and Data Collection experience includes use of GPS and Total Station equipment to accomplish the following:

- Property surveys
- ALTA surveys
- Subdivision plats
- Construction staking and layout
- Construction staking verification
- Final cross-sections
- Topographic surveys
- Survey and data reduction and modeling using 3-D laser scanner
- Hydrographic surveys of lake and river bottoms

Plat experience includes the development of approximately 60 plats over the last 5 years and numerous plat reviews. Some of her recent TPP experience includes:

- US 51, Stoughton to McFarland, Dane County, Wisconsin
- STH 23 and STH 136, Sauk County, Wisconsin
- Pleasant View Road, Dane County, Wisconsin
- City of Madison Bus Rapid Transit

Computer-Aided Design and Drafting (CADD) experience includes the use of Microstation, Civil 3-D, Autodesk Recap, EaglePoint, Geopak, Leica Cyclone and TopoDOT for the following:

- Processing construction layout information
- Processing final cross-sections and generating earthwork quantities
- Drafting plans
- Right-of-way (ROW) plats (traditional and transportation project plats)
- ALTA surveys, certified survey maps, subdivision plats, and easements
- Plant and pump station piping models
- Creating digital terrain models
- Creating 3-D drive-through models

Design experience includes storm sewers and landscaping.

SIGNIFICANT PROJECTS

Projects involving survey services, Transportation Project Plats (TPPs), and ROW plats for municipal and Wisconsin Department of Transportation (WisDOT) roadway projects are included below.

- Marquette Interchange, Milwaukee, Wisconsin
- Various pumping station scans – Madison and La Crosse, Wisconsin
- TPPs – Verona Road in Madison and Fitchburg, Wisconsin; McKee Road in Fitchburg, Wisconsin; and Northwestern Avenue and Durand Avenue in Racine, Wisconsin
- East Grand Avenue and 8th Street / East Grand Avenue intersection in Wisconsin Rapids, Wisconsin
- East Johnson Street in Madison, Wisconsin
- STH 120 in Lake Geneva, Wisconsin
- Monona Drive in Monona, Wisconsin
- Dane County A, E, Y, and JG Bridge Projects
- Libal Street Full Reconstruction (TPP) – Allouez, Wisconsin
- 22nd Avenue Intersection Improvement (TPP and scan) – Kenosha, Wisconsin
- Risseeuw Road Bridge Replacement – Sheboygan County, Wisconsin
- Silver Creek Cascade Road Bridge Replacement – Sheboygan County, Wisconsin
- CTH D Bridge Replacement – Washington County, Wisconsin
- CTH PB over Sugar River – Dane County, Wisconsin
- Wasson Lane – River Falls, Wisconsin
- Various Water Treatment Plant Scans Across the Country
- Various Food Process Plant Scans Across the Country

YEARS OF EXPERIENCE

26

YEARS WITH FIRM

26

EDUCATION

Associate Degree, Civil Engineering Technology – Madison Area Technical College, Wisconsin, 1999

REGISTRATION

Professional Land Surveyor in Wisconsin and Iowa

PROFESSIONAL AFFILIATIONS

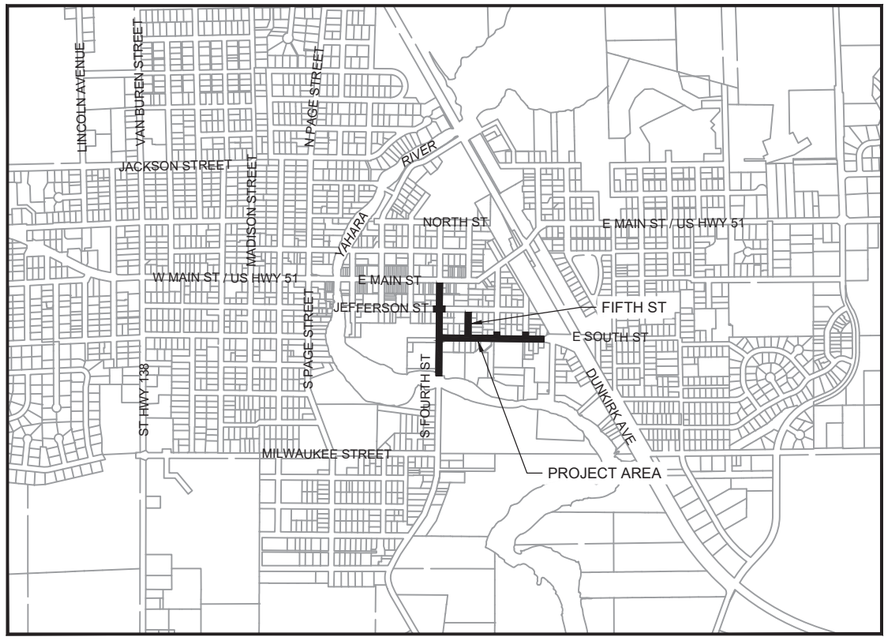
Member of Wisconsin Society of Land Surveyors

2024 STREET AND UTILITY CONSTRUCTION

FOR THE

CITY OF STOUGHTON
STOUGHTON, WISCONSIN
FEBRUARY 2024

AREA MAP
NO SCALE



PROJECT LOCATION MAP
NO SCALE

DRAWING LIST

SHEET NO.	SHEET TITLE
1	TITLE SHEET
2	STANDARD NOTES AND SYMBOLS
3	STAGE 1 - PROJECT OVERVIEW
4	STAGE 2 - PROJECT OVERVIEW
5-6	TYPICAL SECTIONS
7-8	CONSTRUCTION DETAILS AND SCHEDULES
9-12	INTERSECTION DETAILS
13	EROSION CONTROL DETAILS AND NOTES
14-18	EROSION CONTROL AND RESTORATION PLANS
	STAGE 1
19-21	E SOUTH STREET - PLAN AND PROFILE
22	FIFTH STREET- PLAN AND PROFILE
23	SIXTH STREET - PLAN AND PROFILE
24	SEVENTH STREET - PLAN AND PROFILE
25	RDA STORM SEWER - PLAN AND PROFILE
	STAGE 2
26-28	S FOURTH STREET - PLAN AND PROFILE
29	E JEFFERSON STREET - PLAN AND PROFILE
30	EAST ALLEY - PLAN AND PROFILE
31	UNIROYAL EASEMENT - WATER VALVE REPLACEMENT OVERVIEW
32	STREET LIGHTING AND TRAFFIC SIGNAL PLAN
33	STREET LIGHTING - DETAILS
	CROSS SECTIONS
34-49	E SOUTH STREET - CROSS SECTIONS
50-54	FIFTH STREET- CROSS SECTIONS
55-73	S FOURTH STREET - CROSS SECTIONS

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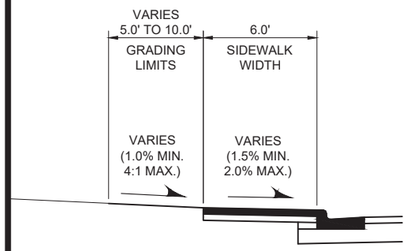
MARK A. FISHER
E-30301
MADISON
WI
PROFESSIONAL ENGINEER
2/16/24

STRAND ASSOCIATES®

CONTRACT 1-2024

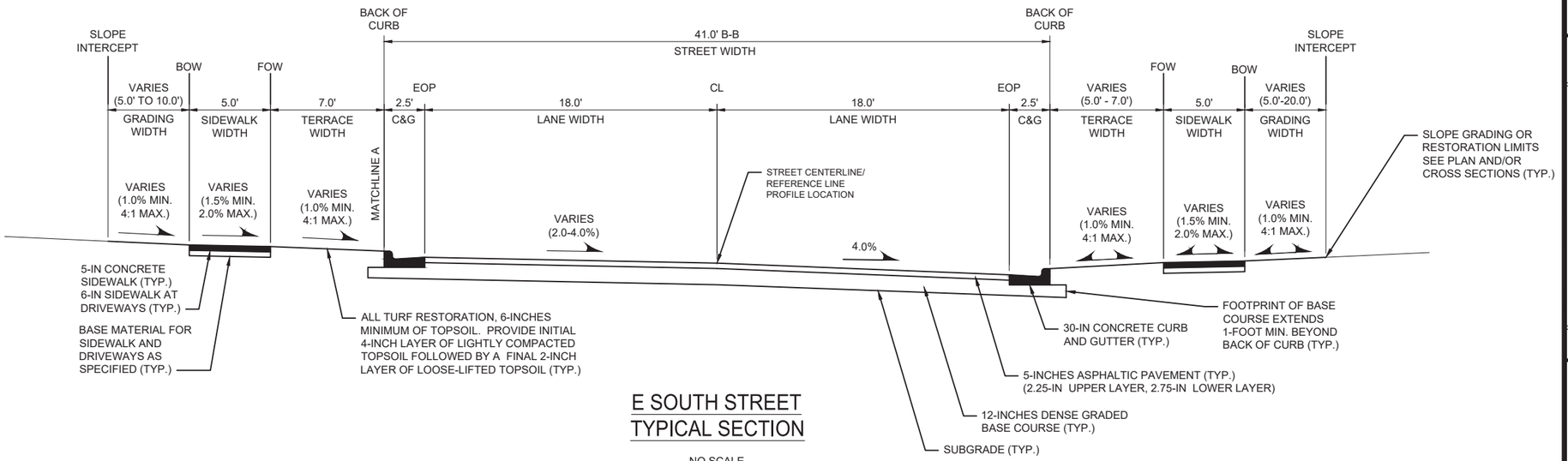
ISSUED FOR BID FEBRUARY 15, 2024

SHEET 1



MATCHLINE A

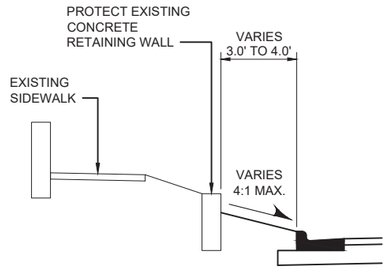
STA. 14+75 TO STA. 15+46



E SOUTH STREET
TYPICAL SECTION

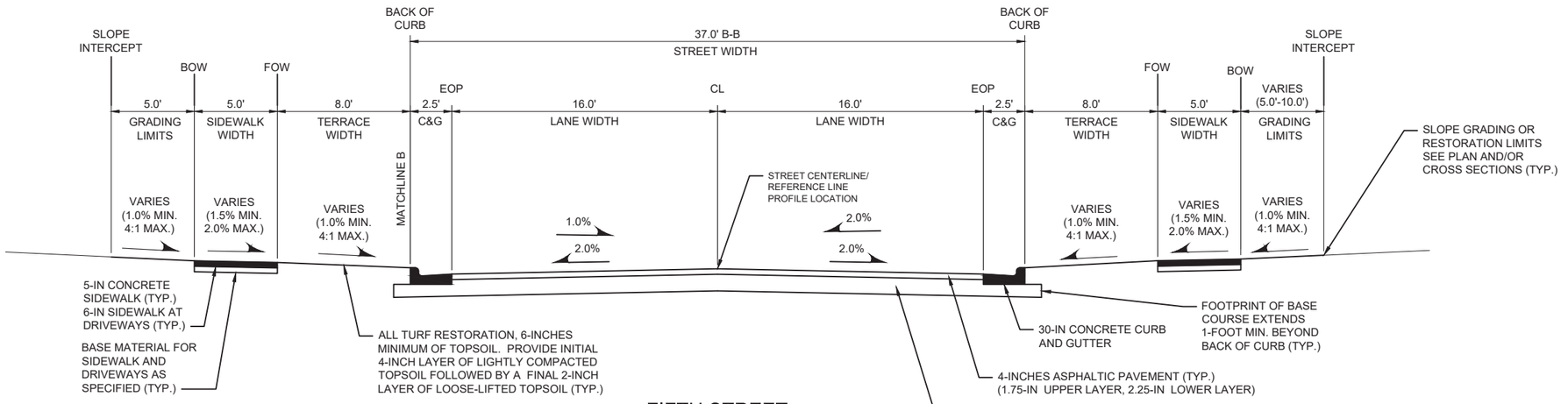
NO SCALE

S FOURTH STREET TO
SEVENTH STREET



MATCHLINE B

STA. 12+12 TO STA. 13+00



FIFTH STREET
TYPICAL SECTION

NO SCALE

E SOUTH STREET TO
E JEFFERSON STREET

DATE:
REVISIONS
NO.

TYPICAL SECTIONS

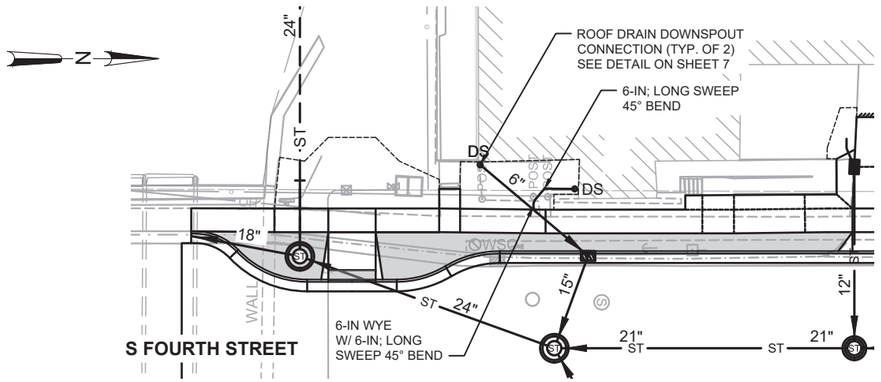
2024 STREET AND UTILITY RECONSTRUCTION
FOR THE
CITY OF STOUGHTON
DANE COUNTY, WISCONSIN

JOB NO.
1040.149

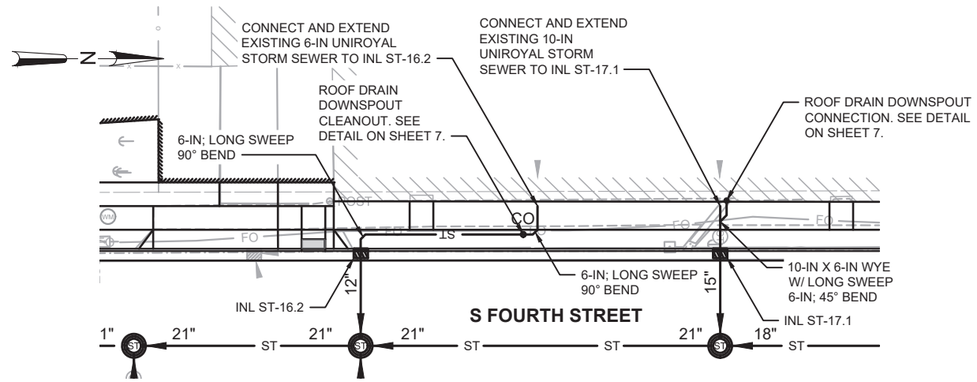
PROJECT MGR.
MAF

STRAND ASSOCIATES®

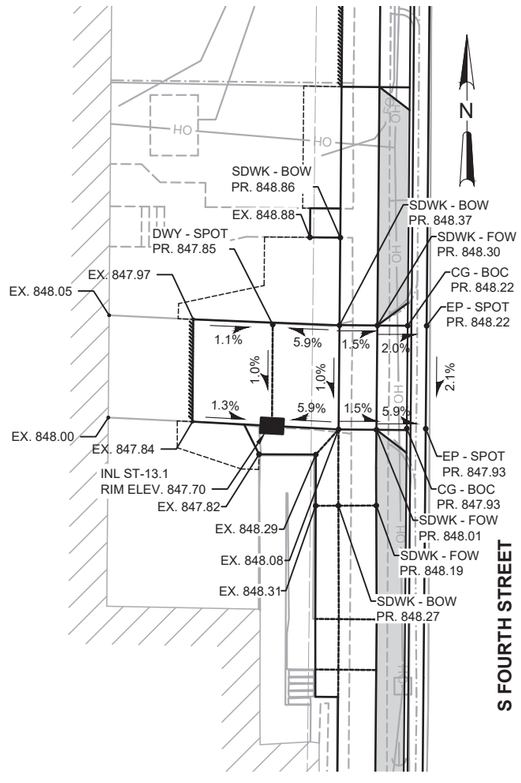
SHEET
5



600 S FOURTH STREET
ROOF DRAIN
SCHEMATIC

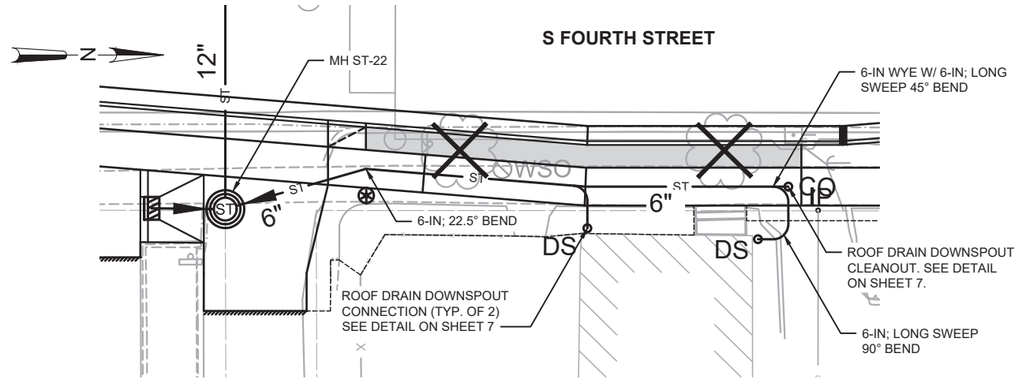


501 S FOURTH STREET
ROOF DRAIN
SCHEMATIC



STOUGHTON UTILITIES
LOADING AREA
PLAN DETAIL

0 5 10 20



309 S FOURTH STREET
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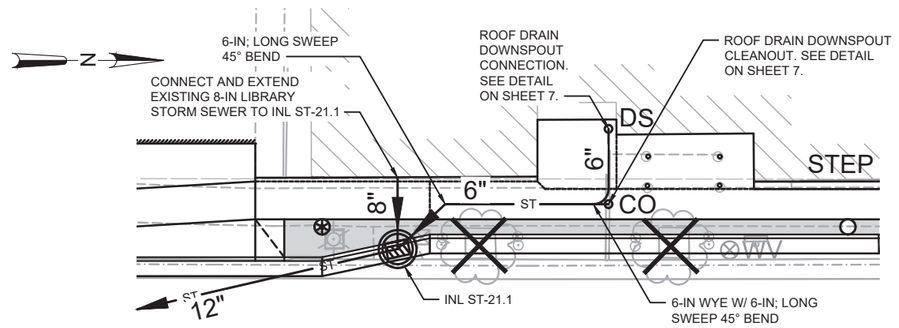

PUBLIC LIBRARY
ROOF DRAIN
SCHEMATIC

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CONSTRUCTION DETAILS AND SCHEDULES

2024 STREET AND UTILITY RECONSTRUCTION
FOR THE
CITY OF STOUGHTON
DANE COUNTY, WISCONSIN

JOB NO.
1040.149

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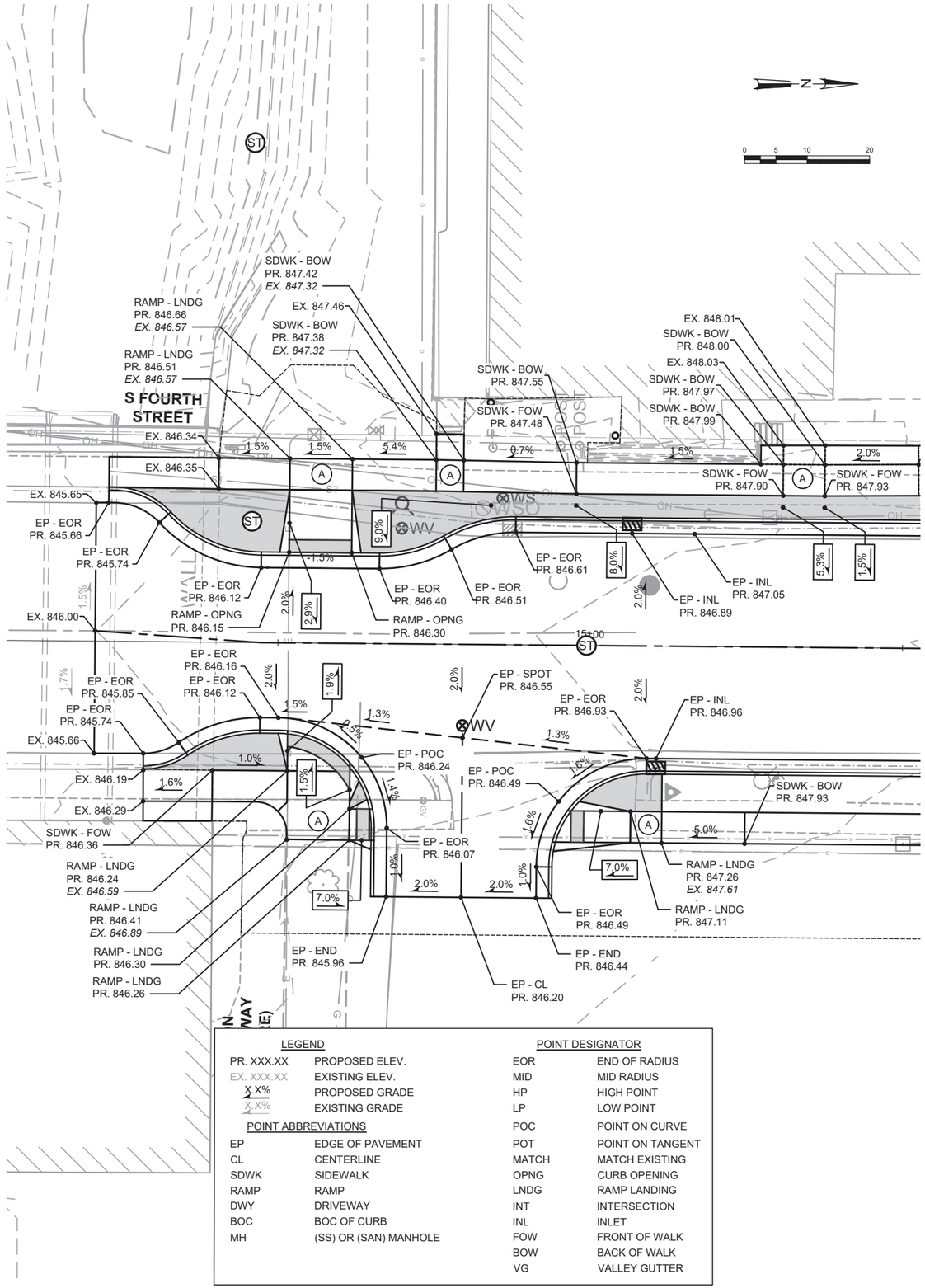

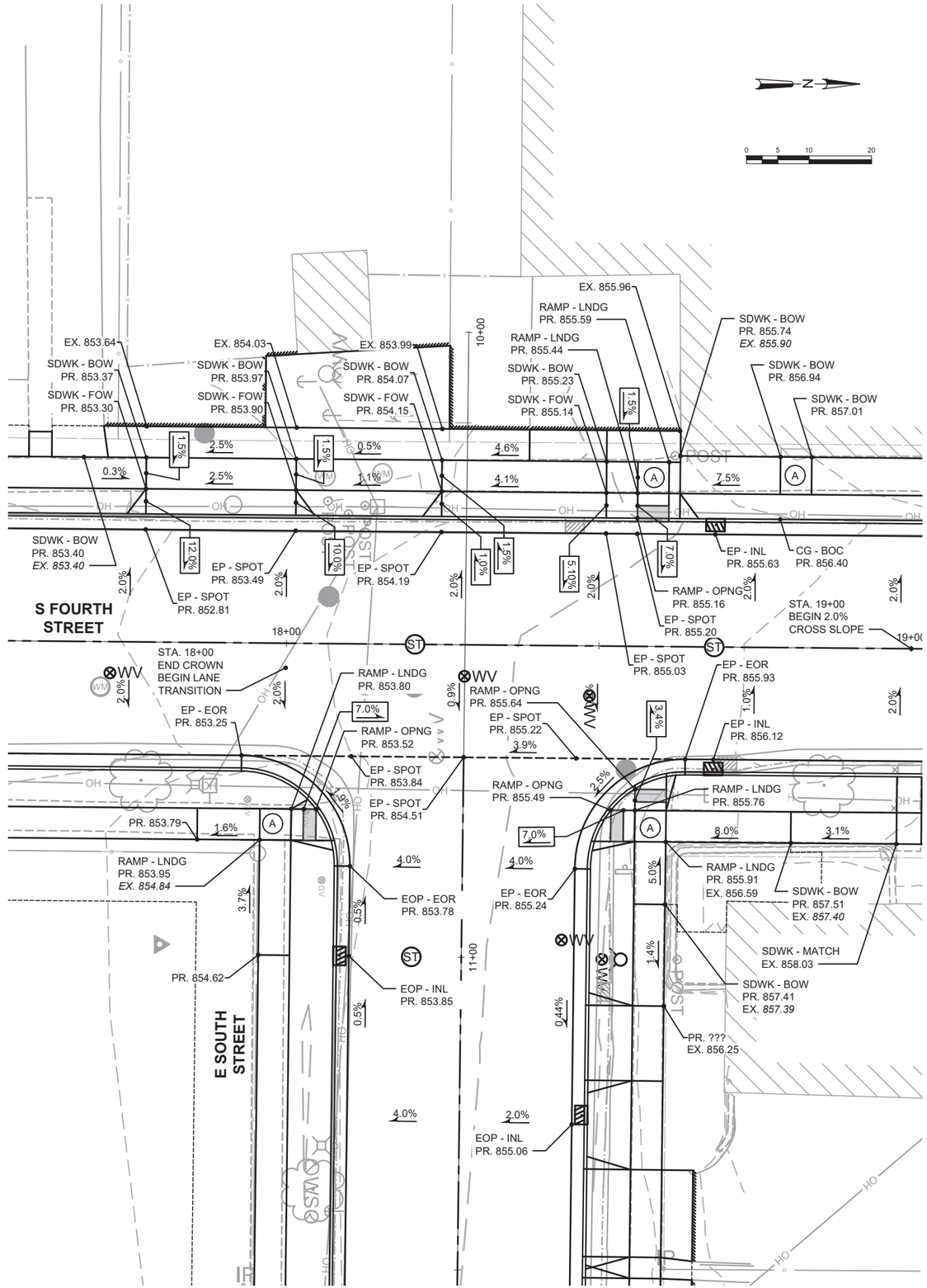

LEGEND		POINT DESIGNATOR	
PR. XXX.XX	PROPOSED ELEV.	EOR	END OF RADIUS
EX. XXX.XX	EXISTING ELEV.	MID	MID RADIUS
X.X%	PROPOSED GRADE	HP	HIGH POINT
X.X%	EXISTING GRADE	LP	LOW POINT
POINT ABBREVIATIONS		POC	POINT ON CURVE
EP	EDGE OF PAVEMENT	POT	POINT ON TANGENT
CL	CENTERLINE	MATCH	MATCH EXISTING
SDWK	SIDEWALK	OPNG	CURB OPENING
RAMP	RAMP	LNDG	RAMP LANDING
DWY	DRIVEWAY	INT	INTERSECTION
BOC	BOC OF CURB	INL	INLET
MH	(SS) OR (SAN) MANHOLE	FOW	FRONT OF WALK
		BOW	BACK OF WALK
		VG	VALLEY GUTTER

DATE:
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INTERSECTION DETAILS

2024 STREET AND UTILITY RECONSTRUCTION
FOR THE
CITY OF STOUGHTON
DANE COUNTY, WISCONSIN

JOB NO.
1040.149

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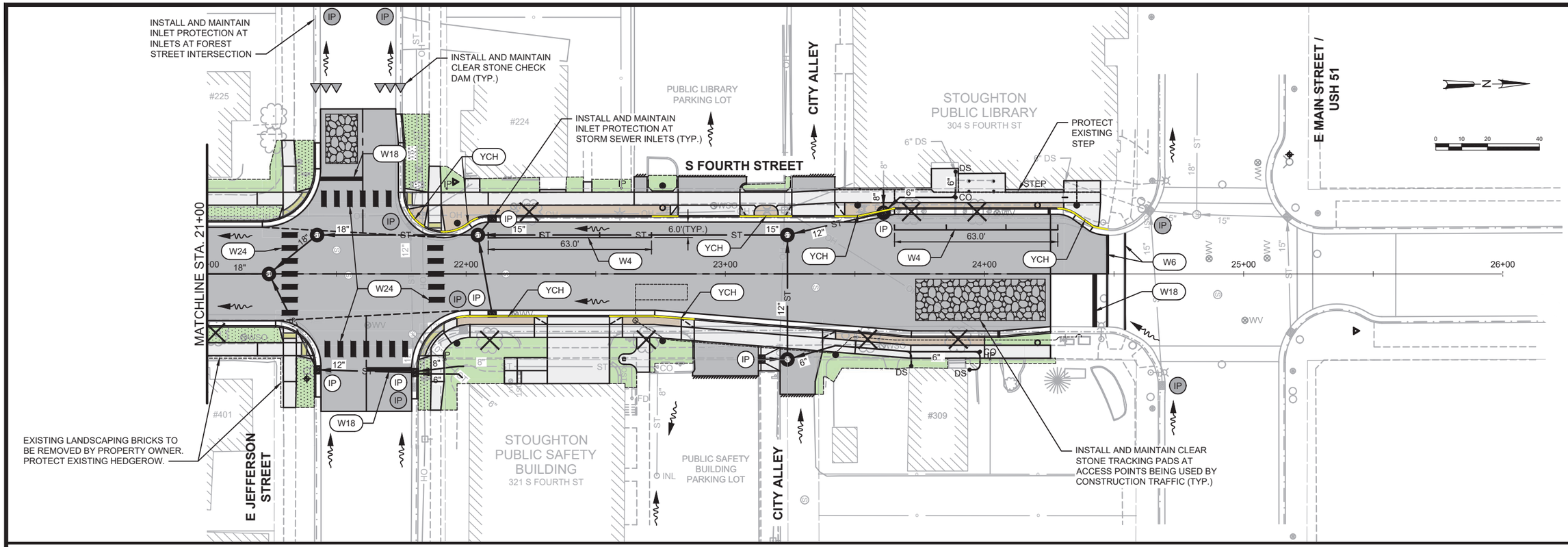

EROSION CONTROL LEGEND

- EROSION MAT WISDOT CLASS 1, TYPE A URBAN
- STRAW MULCH
- INLET PROTECTION AT NEW AND EXISTING STORM SEWER INLETS
- SITE FLOW DIRECTION
- STRAW WATTLE
- SILT FENCE
- CLEAR STONE CHECK DAM

EROSION CONTROL NOTES:

1. ALL TURF RESTORATION OUTSIDE OF THE AREAS IDENTIFIED FOR EROSION MAT SHALL BE PROTECTED WITH A CRIMPED OR ANCHORED MULCH. IF CRIMPING CANNOT BE COMPLETED, ANCHORING MAY BE PROVIDED BY APPLYING A PAL APPROVED TACKIFIER.
2. CLEAR STONE CHECK DAMS SHALL NOT DIVERT WATER ONTO PRIVATE PROPERTY. LOCATIONS SHALL BE ADJUSTED DURING CONSTRUCTION AS NEEDED WHILE MAINTAIN ACCESS TO FOR LOCAL TRAFFIC.

EPOXY PAVEMENT MARKING LEGEND

W4	PARKING LANE LINE, 4-INCH (WHITE)
W6	PEDESTRIAN CROSSING LINE, 6-INCH (WHITE)
W18	STOP LINE, 18-INCH (WHITE)
W24	CONTINENTAL CROSSWALK, 24-INCH x 6-FOOT (TYP.) , 10-FOOT LONG AT TRAIL CROSSING (WHITE). 3-FOOT GAP SPACING.
W24RR	RAILROAD AT GRADE STOP BAR, 24-INCH (WHITE)
RXR	RAILROAD GRADE CROSSING MARKING SYMBOL, RXR (WHITE).
YCH	CURB HEAD (YELLOW)

NO. | REVISIONS | DATE:

EROSION CONTROL AND RESTORATION PLAN

2024 STREET AND UTILITY RECONSTRUCTION
FOR THE
CITY OF STOUGHTON
DANE COUNTY, WISCONSIN

JOB NO. 1040.149

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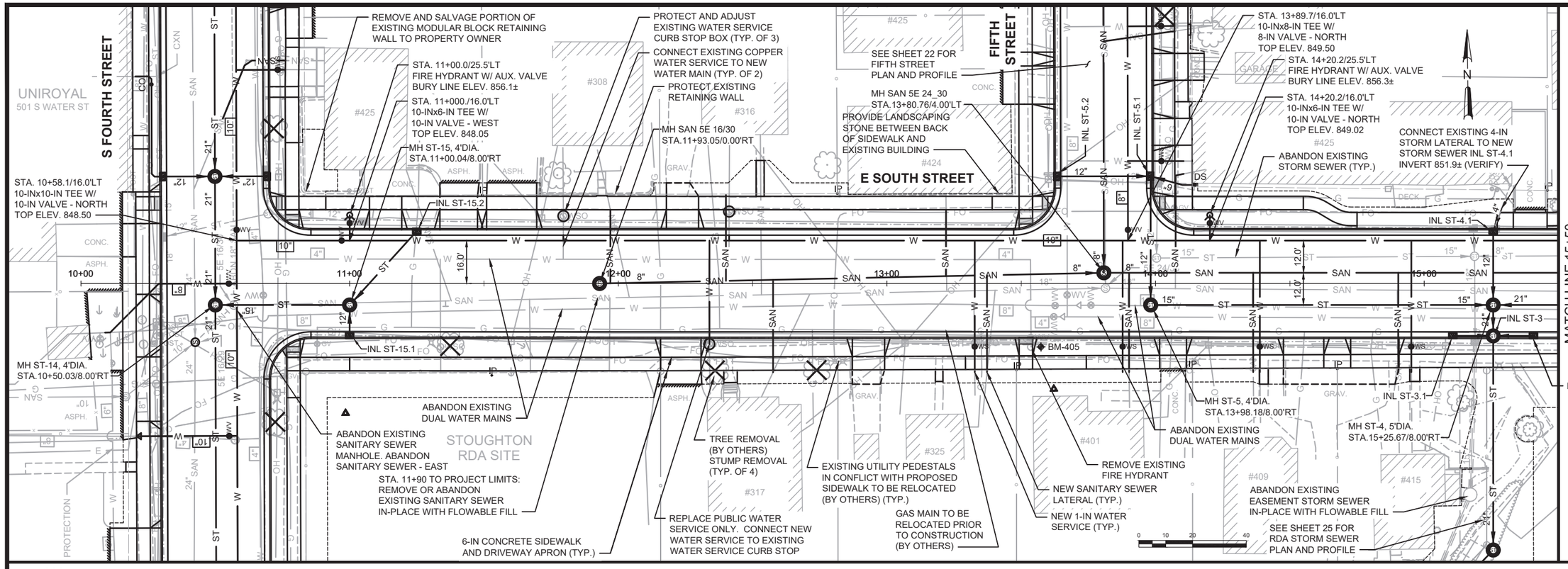
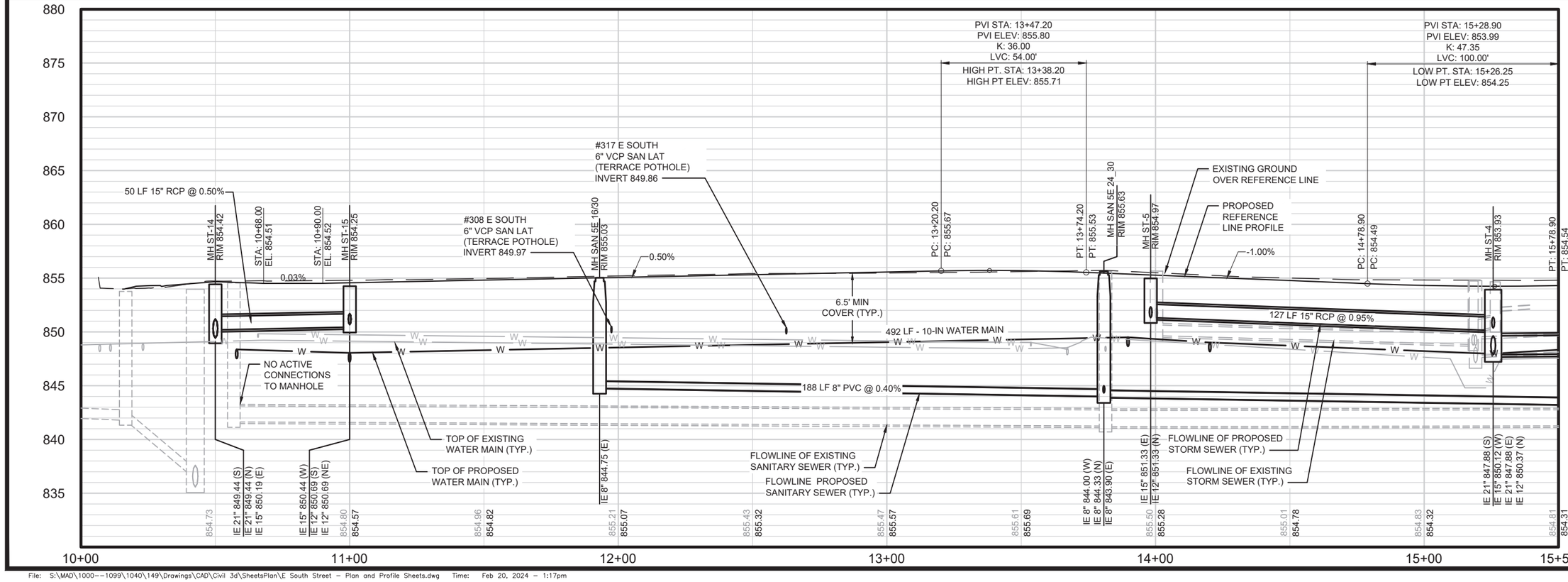
SHEET 18





E SOUTH STREET PLAN AND PROFILE

2024 STREET AND UTILITY RECONSTRUCTION FOR THE CITY OF STOUGHTON DANE COUNTY, WISCONSIN

NO.	REVISIONS	DATE:

JOB NO. 1040.149

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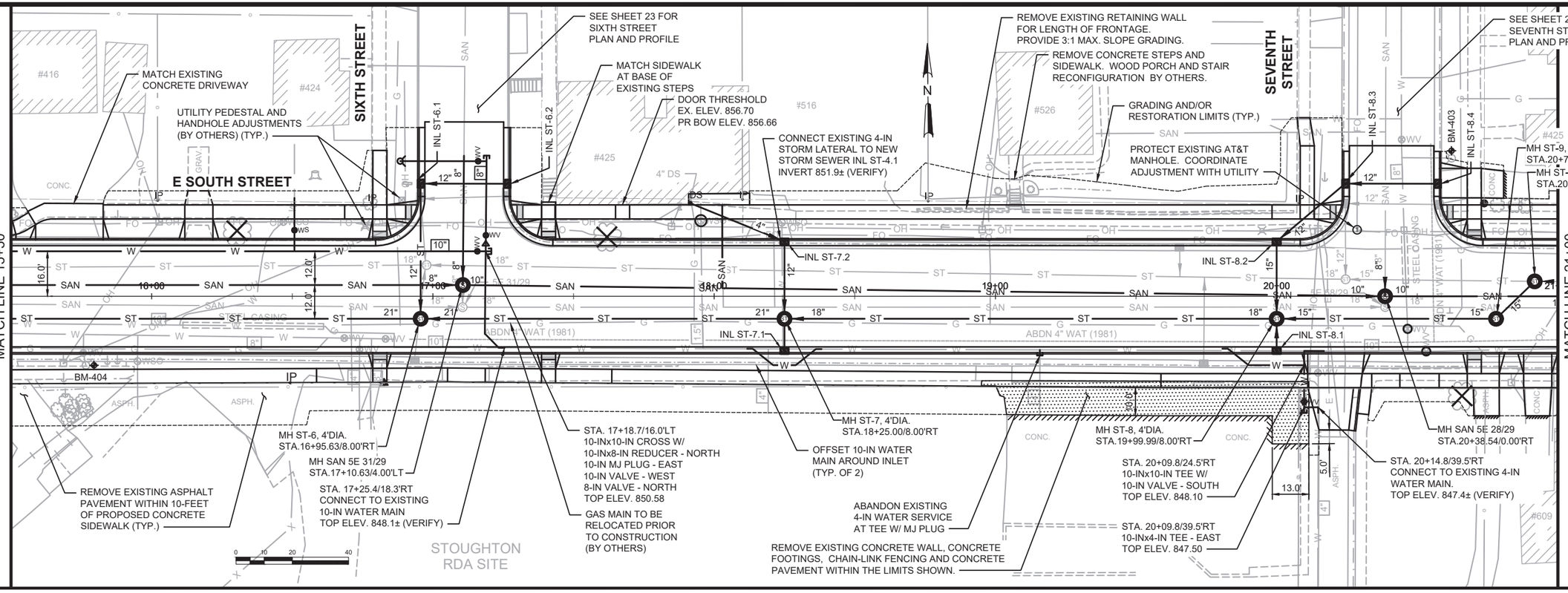
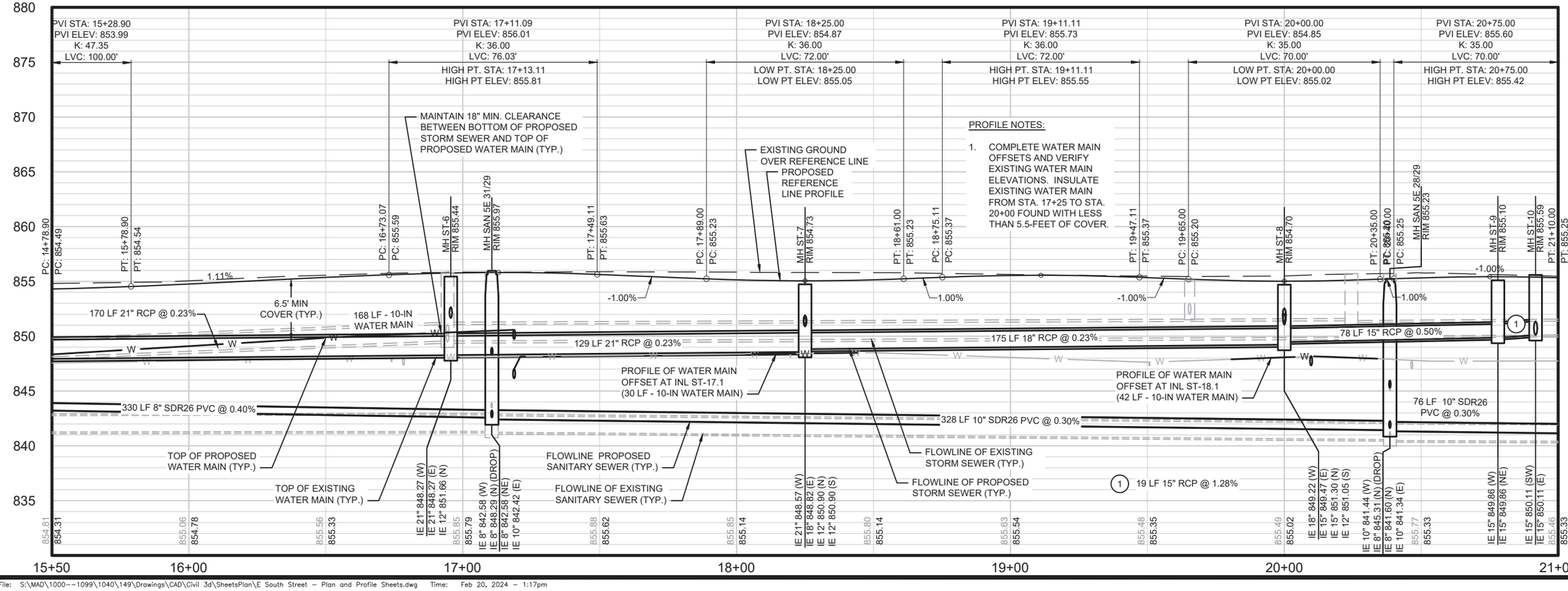
SHEET 19





E SOUTH STREET PLAN AND PROFILE

2024 STREET AND UTILITY RECONSTRUCTION FOR THE CITY OF STOUGHTON DANE COUNTY, WISCONSIN

NO.	REVISIONS	DATE:

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SHEET 20

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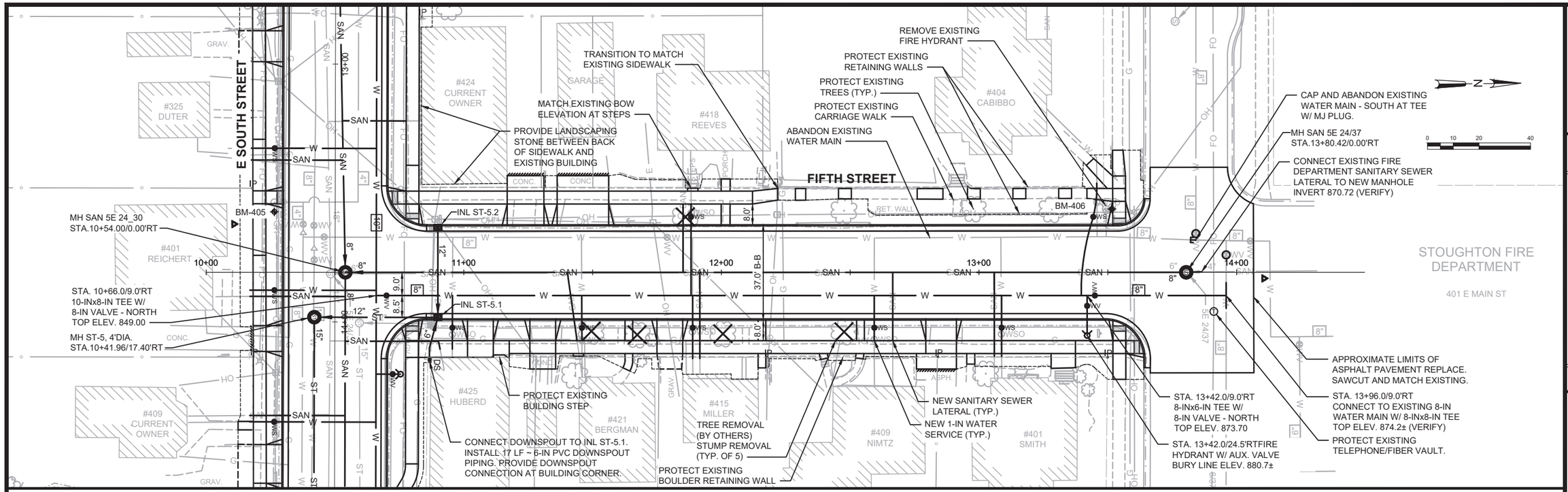

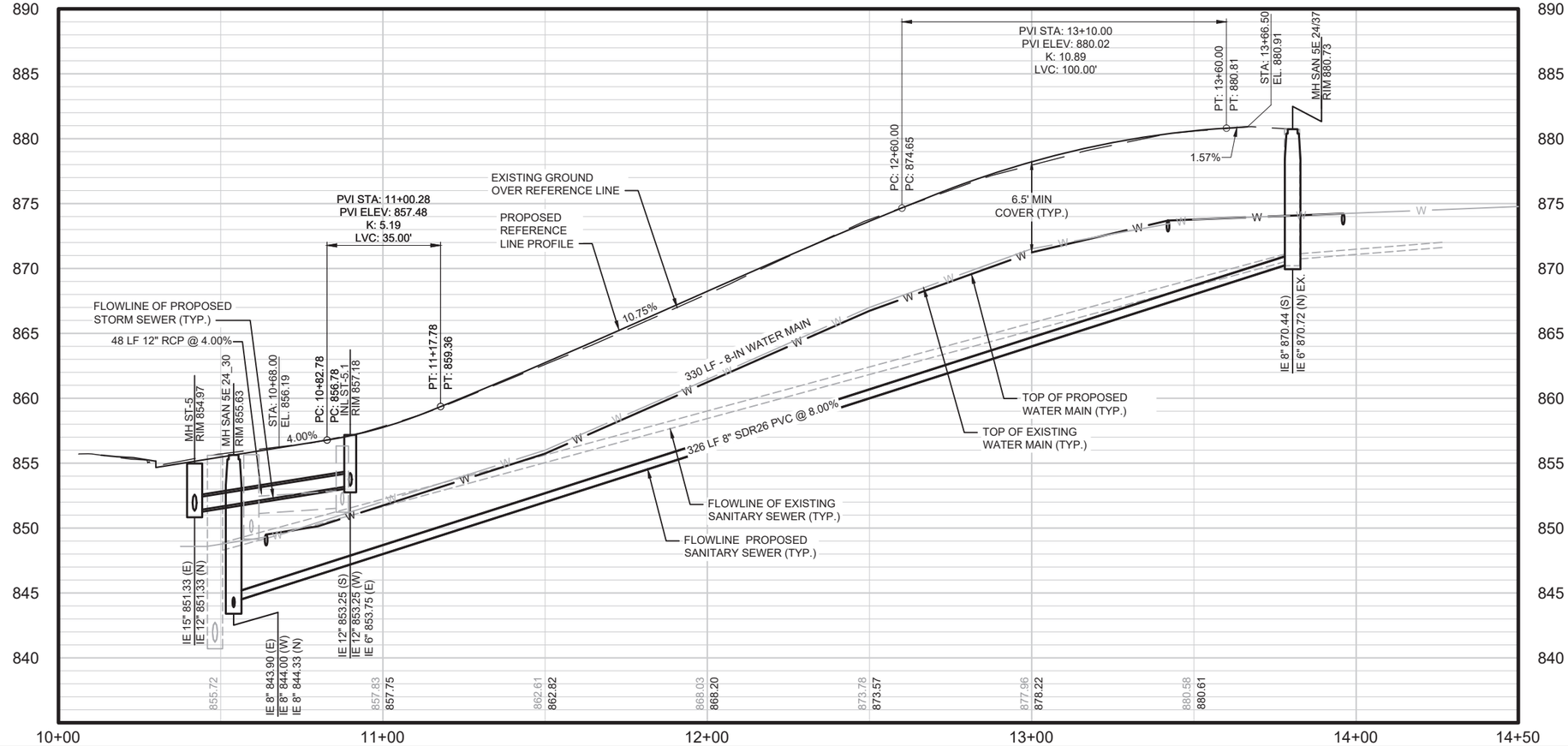

FIFTH STREET
PLAN AND PROFILE

2024 STREET AND UTILITY RECONSTRUCTION
FOR THE
CITY OF STOUGHTON
DANE COUNTY, WISCONSIN

NO.	REVISIONS	DATE:

JOB NO. 1040.149

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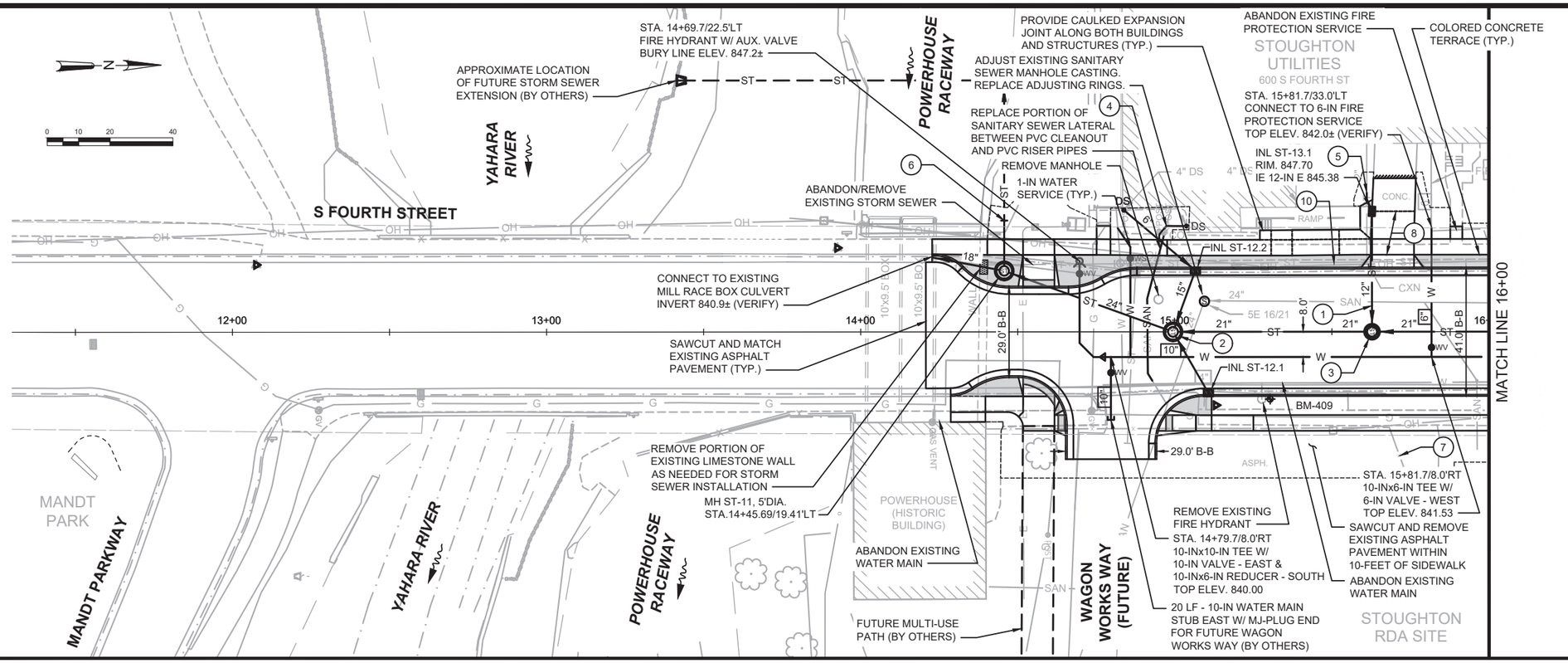
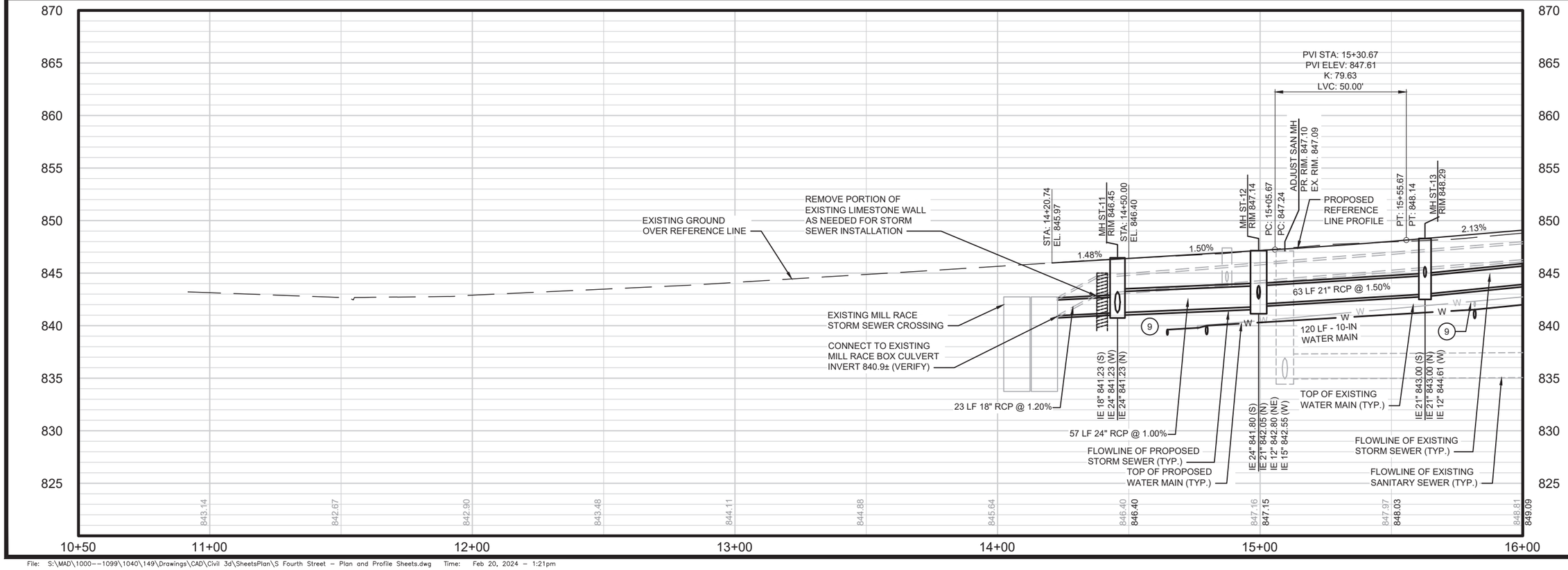
SHEET 22

KEY NOTES:

1. 38 LF - 12-IN STORM SEWER @ 2.00%
2. MH ST-12, 5'DIA. STA.14+99.4/0.0'RT
3. MH ST-13, 4'DIA. STA.15+62.8/0.0'RT
4. CONNECT DOWNSPOUT PIPING TO INL ST-12.2. INSTALL 42 LF ~ 6-IN PVC DOWNSPOUT PIPING W/ TRACER WIRE. PROVIDE DOWNSPOUT CONNECTION TO TWO LOCATIONS.
5. CONNECT EXISTING 2-IN STORM SEWER DISCHARGE TO INL ST-13.1. (VERIFY INVERT)
6. STUB 16-LF ~ 24-IN STORM SEWER @ -2.00%. BULKHEAD END WITH BRICK AND MORTAR.
7. EXISTING CHAIN-LINK FENCE SURROUNDING RDA SITE TO BE RELOCATED BY OWNER (TYP.)
8. 7-IN CONCRETE DRIVEWAY APRON AND SIDEWALK. PROVIDE THICKENED CURB ACROSS ENTRANCE.
9. MAINTAIN 18-INCHES MINIMUM CLEARANCE BETWEEN TOP OF WATER MAIN AND BOTTOM OF STORM SEWER.
10. REMOVE AND RESET STOUGHTON UTILITIES PAYMENT BOX.





S FOURTH STREET
PLAN AND PROFILE

2024 STREET AND UTILITY RECONSTRUCTION
FOR THE
CITY OF STOUGHTON
DANE COUNTY, WISCONSIN

NO.	REVISIONS	DATE:

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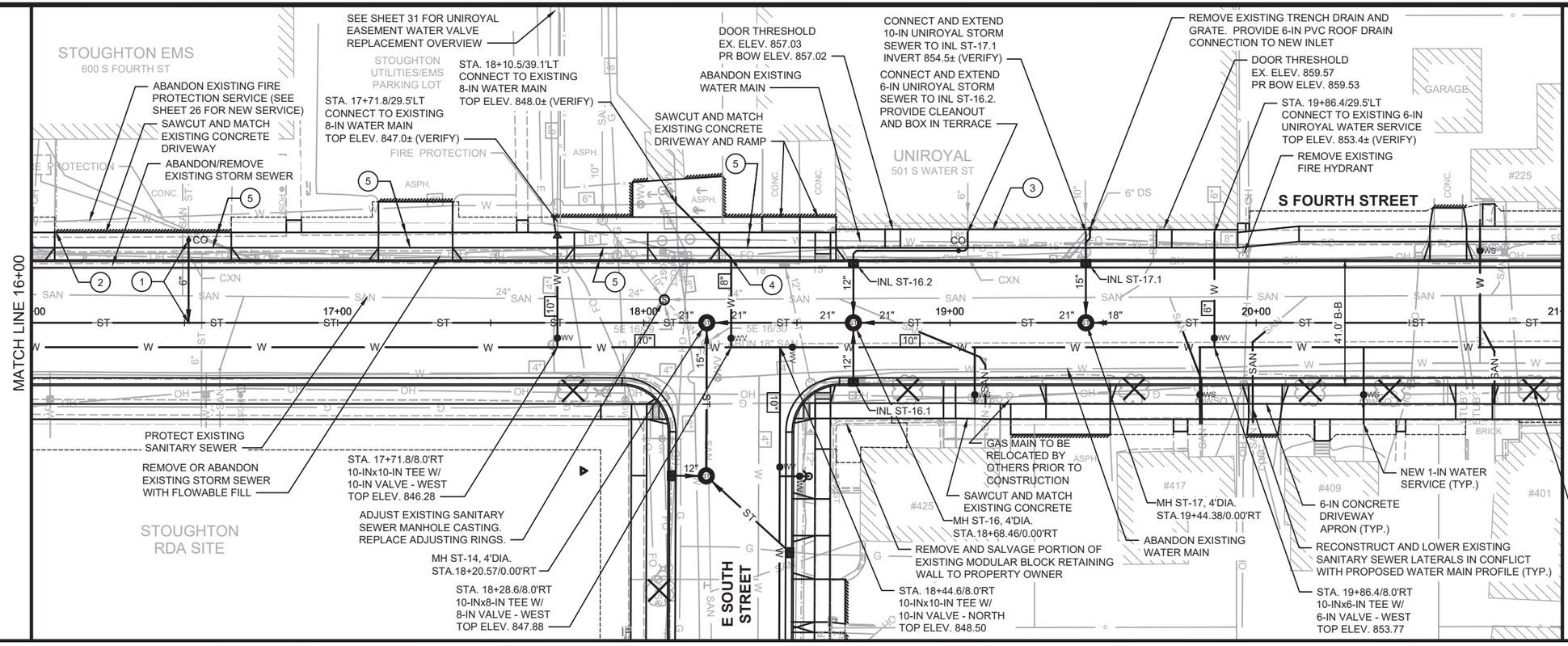
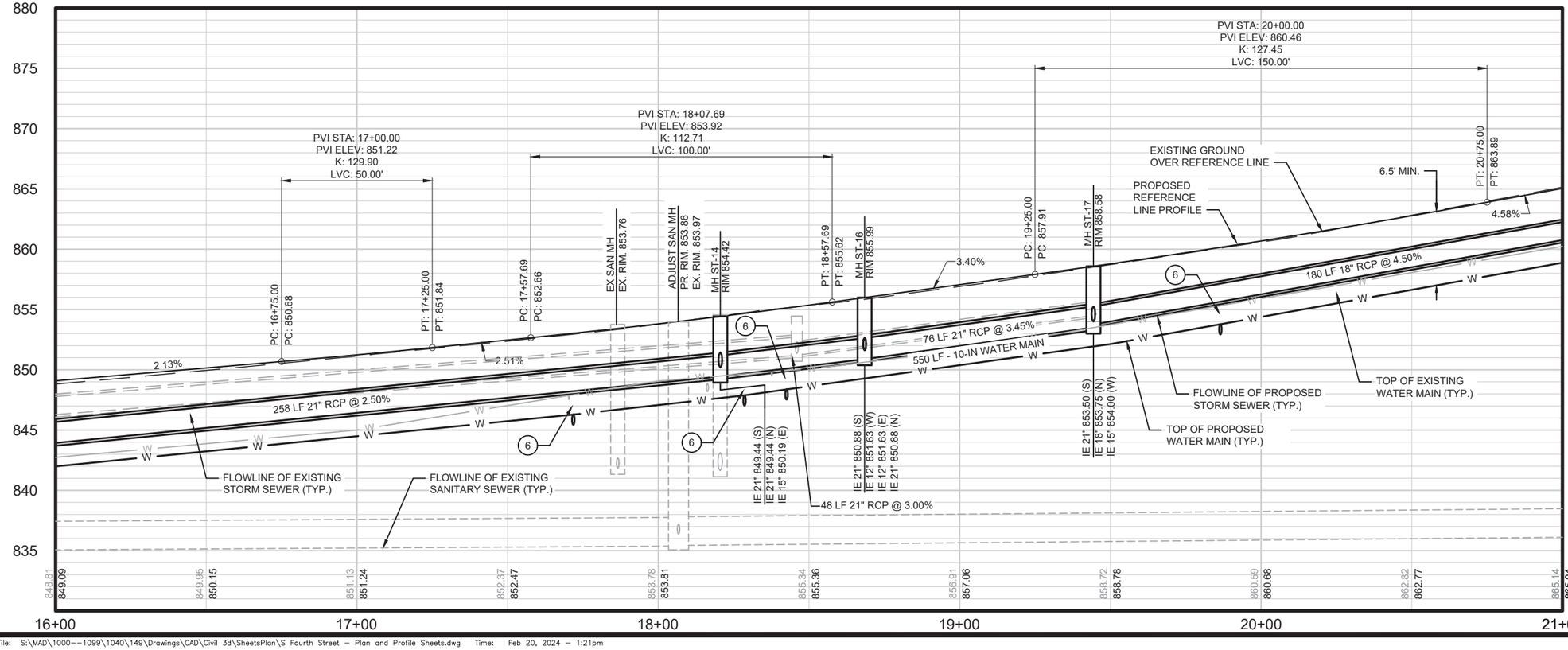
SHEET 26



KEY NOTES:

1. PROVIDE FIELD-CORED CONNECTION TO 21-IN STORM SEWER. INSTALL 30 LF ~ 6-IN PVC STORM DRAIN W/ TRACER WIRE. CLEANOUT SHALL BE PLACED IN TERRACE.
2. SAW AND REMOVE END OF CONCRETE WALL. REMOVE END OF STEEL PIPE HANDRAIL FLUSH WITH VERTICAL POST. FILL END OF PIPE WITH GROUT.
3. PROVIDE CAULKED EXPANSION JOINT ALONG BOTH BUILDINGS AND STRUCTURES (TYP.)
4. STA. 18+28.6/21.1'LT 8-IN; 45° BEND TOP ELEV. 847.88
5. 7-IN CONCRETE DRIVEWAY APRON AND SIDEWALK. PROVIDE THICKENED CURB ACROSS ENTRANCE.
6. MAINTAIN 18-INCHES MINIMUM CLEARANCE BETWEEN TOP OF WATER MAIN AND BOTTOM OF STORM SEWER.

TREE REMOVAL (BY OTHERS)
STUMP REMOVAL (TYP. OF 6)



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S FOURTH STREET
PLAN AND PROFILE

2024 STREET AND UTILITY RECONSTRUCTION
FOR THE
CITY OF STOUGHTON
DANE COUNTY, WISCONSIN

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REPLACE EXISTING SANITARY SEWER MANHOLE CASTING W/ LOW PROFILE; NEENAH R-1689. REPLACE ADJUSTING RINGS.

MH ST-19, 4'DIA. STA.21+42.48/15.00'LT

MH ST-18, 4'DIA. STA.21+23.92/0.00'RT

SEE SHEET 29 FOR JEFFERSON STREET PLAN AND PROFILE

GAS MAIN TO BE RELOCATED BY OTHERS PRIOR TO CONSTRUCTION

NEW SANITARY SEWER LATERAL (TYP.)

NEW 1-IN WATER SERVICE (TYP.)

STA. 22+18.8/5.0'LT 10-INx4-IN TEE W/ 4-IN VALVE - EAST TOP ELEV. 863.90

CONCRETE BARRIER CURB

7-IN CONCRETE DRIVEWAY APRON AND SIDEWALK. PROVIDE THICKENED CURB ACROSS ENTRANCE.

EXISTING FLAG POLE TO BE REMOVED (BY OTHERS)

CONNECT AND EXTEND 8-IN LIBRARY STORM SEWER TO INL ST-21.1. INVERT 868.0± (VERIFY)

PROVIDE DOWNSPOUT CONNECTION TO INL ST-21.1. INSTALL 40 LF ~ 6-IN PVC DOWNSPOUT PIPING W/ TRACER WIRE. CLEANOUT SHALL BE PLACED IN SIDEWALK.

PROTECT EXISTING BIKE RACK. REPLACE SURROUNDING CONCRETE.

COLORED CONCRETE TERRACE

PROTECT EXISTING LIBRARY STEP

PROVIDE CAULKED EXPANSION JOINT ALONG BOTH BUILDINGS AND STRUCTURES (TYP.)

PROTECT EXISTING LIBRARY DOWNSPOUT PIPING

BM-407

STA. 24+13.6/5.0'LT CONNECT TO EXISTING 10-IN WATER MAIN W/ MJ SLEEVE TOP ELEV.870.2± (VERIFY)

REMOVE AND REPLACE 9-IN CONCRETE PAVEMENT.

KEY NOTES:

1. STA. 21+36.2/8.0'RT 10-IN; 45° BEND TOP ELEV. 859.59
2. STA. 21+46.2/18.0'RT 10-IN; 45° BEND TOP ELEV. 858.57
3. STA. 21+62.6/18.0'RT 10-INx10-IN TEE W/ 8-IN REDUCER - EAST TOP ELEV. 862.73
4. STA. 21+62.6/5.0'LT 10-INx10-IN TEE W/ 8-IN REDUCER - WEST TOP ELEV. 861.73
5. MH ST-20, 4'DIA. STA.22+04.53/15.00'LT
6. MH ST-21, 4'DIA. STA.23+23.97/15.00'LT

STA. 21+00.0/8.0'RT 10-INx6-IN TEE W/ 10-IN VALVE - NORTH TOP ELEV. 858.88

STA. 21+19.5/24.5'RT FIRE HYDRANT W/ AUX. VALVE BURY LINE ELEV. 867.2±

MATCH LINE 21+00

S FOURTH STREET

WEST ALLEY

EAST ALLEY

E JEFFERSON STREET

E MAIN STREET / USH 51

STOUGHTON PUBLIC LIBRARY
304 S FOURTH ST

STOUGHTON PUBLIC SAFETY BUILDING
321 S FOURTH ST

PUBLIC LIBRARY PARKING LOT

INL ST-20.2

INL ST-20.1

INL ST-21.1

MH SAN 5E 16_37 STA.21+54.61/6.00'RT

REMOVE EXISTING FIRE HYDRANT

PROTECT EXISTING FLAG POLE

6-IN CONCRETE DRIVEWAY APRON (TYP.)

STA. 22+18.8/33.0'RT CONNECT TO EXISTING 4-IN FIRE PROTECTION SERVICE TOP ELEV. 864.2± (VERIFY)

MH SAN 5E 17/42 STA.23+34.91/6.00'RT

ABANDON EXISTING WATER MAIN

SEE SHEET 30 FOR EAST ALLEY PLAN AND PROFILE

TREE REMOVAL (BY OTHERS) STUMP REMOVAL (TYP. OF 8)

CONNECT EXISTING DOWNSPOUT (TYP. OF 3)

MH SAN TEMP-3 STA.24+15.12/7.02'RT

NOTE:

1. REFER TO SHEET 32 FOR STREET LIGHTING AND TRAFFIC SIGNAL PLAN.

0 10 20 40

PVI STA: 22+50.00
PVI ELEV: 871.90
K: 168.83
LVC: 300.00'

PVI STA: 24+43.46
PVI ELEV: 877.32
K: 50.00
LVC: 40.00'

EXISTING GROUND OVER REFERENCE LINE

PROPOSED REFERENCE LINE PROFILE

TOP OF PROPOSED WATER MAIN (TYP.)

24 LF 18" RCP @ 2.85%

10-INx10-IN TEE (ROLLED DOWN)

119 LF 15" RCP @ 1.50%

180 LF 8" PVC @ 2.50%

326 LF - 10-IN WATER MAIN

6.5' MIN.

2.80%

2.00%

PC: 21+00.00
PC: 865.04

MH ST-18 RIM 866.11

MH ST-19 RIM 866.49

ADJUST SAN MH PR. RIM. 866.98 EX. RIM. 867.20

MH SAN 5E 16_37 RIM 867.64

MH ST-20 RIM 868.90

MH ST-21 RIM 873.20

MH SAN 5E-17/42 RIM 874.38

INL ST-21.1 RIM 874.78

PT: 24+00.00
PT: 876.10

MH SAN TEMP-3 RIM 876.56
PC: 24+23.46
PC: 876.76

PT: 24+63.46
PT: 877.72

STA: 24+75.00
EL. 877.95

5E 17/45 RIM 878.39

IE 18" 861.83 (S)
IE 15" 862.08 (NE)
IE 18" 861.83 (NW)

IE 18" 862.51 (SE)
IE 18" 862.51 (N)

IE 8" 859.89 (W)
IE 8" 859.99 (N)
IE 8" 860.46 (E)

IE 18" 864.68 (S)
IE 15" 864.91 (N)
IE 12" 865.56 (NW)
IE 12" 865.58 (E)

IE 15" 866.70 (S)
IE 12" 869.28 (E)
IE 12" 866.88 (N)

IE 8" 864.50 (S)
IE 8" 864.60 (E)
IE 8" 864.60 (N)
IE 8" 868.65 (E) (DROP)

IE 12" 867.26 (S)
IE 8" 867.59 (W)
IE 6" 870.14 (NW)

IE 8" 867.09 (S)
IE 8" 867.77 (N)

IE 8" 869.49 (S)
IE 8" 869.59 (N)
IE 8" 869.59 (E)

FLOWLINE OF EXISTING SANITARY SEWER (TYP.)

FLOWLINE PROPOSED SANITARY SEWER (TYP.)

FLOWLINE OF PROPOSED STORM SEWER (TYP.)

62 LF 18" RCP @ 3.50%

10-IN; 45° BEND (ROLLED UP)

MAINTAIN 18" MIN. CLEARANCE BETWEEN BOTTOM OF SANITARY SEWER AND TOP OF NEW WATER MAIN (TYP.)

38 LF 12" RCP @ 1.00%

80 LF 8" PVC @ 3.10%

MANHOLE TO BE REMOVED AS PART OF FUTURE E MAIN STREET UTILITY PROJECT. PVC PIPE EXTENDED AT 3.1% TO CONNECT TO EXISTING SANITARY SEWER MH 5E-17/45.

TOP OF EXISTING WATER MAIN (TYP.)

865.14
865.04

867.45
867.25

869.63
869.32

871.34
871.24

873.09
873.01

874.60
874.63

876.06
876.10

877.36
877.43

21+00 22+00 23+00 24+00 25+00 26+00

890 885 880 875 870 865 860 855 850 845 840

DATE: REVISIONS NO.

S FOURTH STREET
PLAN AND PROFILE

2024 STREET AND UTILITY RECONSTRUCTION
FOR THE
CITY OF STOUGHTON
DANE COUNTY, WISCONSIN

JOB NO. 1040.149

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SHEET 28

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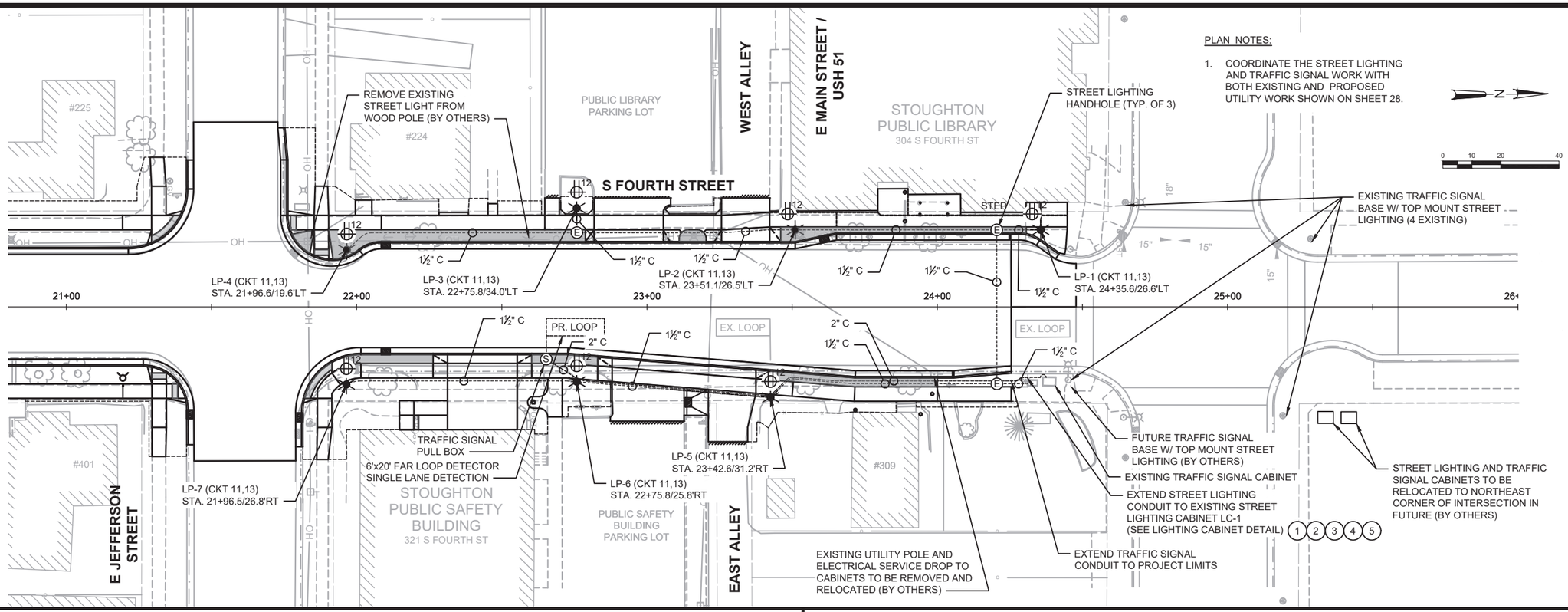


STREET LIGHTING NOTES:

1. LUMINAIRES SHALL BE LED AND WIRED AT 240 VOLT.
2. WIRING TO ALL LIGHTING SHALL BE 2~#12 AND #12 GROUND.
3. WIRING TO ALL FESTOON RECEPTACLES SHALL BE 2~#12 AND #12 GROUND.
4. POWER ALL LIGHTING AND RECEPTACLES FROM EXISTING LIGHTING CABINET.

STREET LIGHTING KEY NOTES:

1. EXISTING CABINET LOAD CENTER IS SQUARE D QO, CATALOG NO QOC24US.
2. PROVIDE ONE 20 AMP, TWO-POLE, 240V CIRCUIT BREAKER IN EXISTING LIGHTING CABINET FOR LIGHTING. WIRE LIGHTING CIRCUIT THROUGH EXISTING TIME CLOCK. PROGRAM TIMECLOCK TO MATCH EXISTING CONTROL AND TEST FUNCTIONALITY.
3. PROVIDE ONE 20 AMP, ONE-POLE, 120V CIRCUIT BREAKER IN EXISTING LIGHTING CABINET FOR FESTOON RECEPTACLES.
4. PROVIDE NEMA 4X BOX ON BACK SIDE OF CABINET FOR CONDUIT ROUTING.
5. MODIFY AND EXTEND WIRING FROM EXISTING PHOTOCELL AS NECESSARY FOR PHOTOCELL CONTROL TO NEW LIGHTING CONTACTOR. MAINTAIN EXISTING PHOTOCELL CONTROL FUNCTION TO EXISTING LIGHTING CONTACTORS.

TRAFFIC SIGNAL NOTES:

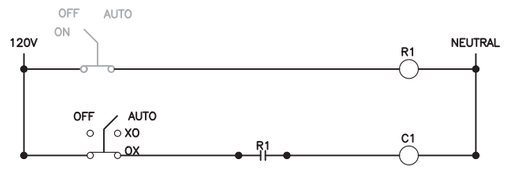
1. CONDUIT FOR LEAD DETECTION LOOP DETECTOR SHALL BE RECONNECTED TO EXISTING NEAR EXISTING STREET LIGHTING CABINET. NEW WIRING SHALL BE PULLED FROM TRAFFIC SIGNAL CABINET AND CONNECTED AT TRAFFIC SIGNAL PULL BOX.
2. PROTECT EXISTING LOOP DETECTORS NEAR S FOURTH STREET AND MAIN STREET INTERSECTION.

STREET LIGHTING AND TRAFFIC SIGNAL LEGEND:

- STREET LIGHTING CONDUIT (1½-INCH)
- DECORATIVE LIGHT POLE AND LUMINAIRE
- (E) STREET LIGHTING HANDHOLE
- RECEPTACLE
- (S) TRAFFIC SIGNAL PULL BOX
- TRAFFIC SIGNAL CONDUIT OR LOOP DETECTOR

FIXTURE SCHEDULE

Manufacturer(s)	Model Number	Mounting	Remarks
STRESSCRETE GROUP	K118R-P4PR-III-75-SSL-1030-120V-K16-4K-GN-#1	POLE	Provide 15-foot concrete pole as manufactured by Stresscrete Group, model KWC-15-E-35-SBP-140 30/30-GFI-NA. Coordinate pole finish with manufacturer to match previously installed poles.



LIGHTING CONTROL PANEL (LC–1) CONTROL DIAGRAM
NO SCALE

EXISTING LIGHTING CABINET
NO SCALE

DATE:
REVISIONS
NO.

STREET LIGHTING AND TRAFFIC SIGNAL PLAN

2024 STREET AND UTILITY RECONSTRUCTION
FOR THE
CITY OF STOUGHTON
DANE COUNTY, WISCONSIN

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SHEET 32

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Task Order No. 22-09
City of Stoughton, Wisconsin (City)
and Strand Associates, Inc.® (Strand)
Pursuant to Agreement for Technical Services dated March 18, 2014

Project Information

Project Name: Fourth Street, South Street, and Fifth Street Reconstruction

Project Description: Reconstruction of approximately 1,200 linear feet (LF) of roadway on Fourth Street (from Main Street to Mandt Parkway), 2,000 LF of South Street (from Fourth Street to Academy Street), and 300 LF of Fifth Street (from Jefferson Street to South Street).

Services Description: Design and Bidding-Related Services

Scope of Services

Strand will provide the following services to City.

Design Services

1. Request underground utility locates and conduct topographic survey in the project area. Prepare base mapping drawings based on survey.

2. Prepare conceptual design for the project corridor. Detailed design for South Street east of Eighth Street is excluded.

3. Design storm sewer along Fourth Street and South Street and show on plan and profile drawings.

4. Prepare plan and profile drawings and cross sections for street and sidewalk reconstruction. Design of up to 22 sidewalk curb ramps is anticipated.

5. Prepare erosion control drawings and details.

6. Prepare construction staging and traffic control drawings.

7. Assist City in obtaining necessary local and state permits for construction of the project, including the anticipated Wisconsin Department of Natural Resources Notice of Intent Permit and the City of Stoughton Erosion Control Permit. City shall pay permit fees.

8. Assist City with special assessments, including preparation of Engineer's Report and documentation of special assessments after construction.

9. Prepare for and attend one public information meeting/open house.

10. Meet with City to review design drawings and incorporate comments, as appropriate.

11. Submit base mapping and design drawings to private utility companies. Correspond with private utility companies regarding work plans for addressing utility conflicts with City project.Design revisions resulting from utility work plans shall be considered additional services

12. Prepare Bidding Documents using Engineers Joint Contract Documents Committee C-700 Standard General Conditions of the Construction Contract, 2018 edition, technical specifications, and engineering drawings.

Bidding-Related Services

1. Distribute Bidding Documents electronically through QuestCDN, available at www.strand.com and www.questcdn.com. Submit Advertisement to Bid to City for publishing.

2. Prepare addenda and answer questions during bidding.

3. Conduct bid opening electronically through QuestCDN, tabulate and analyze bid results, and assist City in the award of the Construction Contract.

4. Prepare up to three sets of Contract Documents for signature.

Compensation

City shall compensate Strand for Services under this Task Order on an hourly rate basis plus expenses an estimated fee of $148,000.

Schedule

Services will begin upon execution of this Task Order, which is anticipated on November 11, 2022. Services are scheduled for completion on December 29, 2023.

TASK ORDER AUTHORIZATION AND ACCEPTANCE:

STRAND ASSOCIATES, INC.®

Joseph M. Bunker 11/22/22
Joseph M. Bunker Date
Corporate Secretary

CITY OF STOUGHTON

Tim Swadley 11-15-22
Tim Swadley Date
Mayor

ATTEST

Candee J. Christen 11-15-22
Candee Christen Date
City Clerk

STRAND ASSOCIATES®
Excellence in Engineering℠

Strand Associates, Inc.®
910 West Wingra Drive
Madison, WI 53715
(P) 608.251.4843
www.strand.com

Amendment No. 1 to Task Order No. 22-09
City of Stoughton, Wisconsin (City)
and Strand Associates, Inc.® (Strand)
Pursuant to Agreement for Technical Services dated March 18, 2014

This is Amendment No. 1 to the referenced Task Order.

Project Name: Fourth Street, Fifth Street, and South Street Reconstruction

Under **Project Information**, REPLACE the Services Description in its entirety with the following: "Design, Bidding-, and Construction-Related Services."

Under **Scope of Services**, ADD the following:

"Construction-Related Services

1. Provide contract administration services including attendance at the preconstruction conference, review up to two iterations of contractor's shop drawing submittals, review of contractor's periodic pay requests, periodic site visits, up to four monthly construction progress meetings, and participation in project closeout.

2. Provide up to six staking trips for one iteration of construction staking for storm sewer, street lighting, curb and gutter, sidewalk, and base course. Additional iterations shall be considered additional services.

3. Provide resident project representative for up to 690 hours of full-time construction observation.

4. Provide record drawings in electronic format from information compiled from contractor's records. Strand is providing drafting Services only for record drawings based on the records presented to Strand by contractor and City. Strand will not be liable for the accuracy of the record drawing information provided by contractor and City."

Under **Compensation**, CHANGE $148,000 to "$297,000."

Under **Schedule**, CHANGE December 29, 2023, to "December 31, 2025."

TASK ORDER AMENDMENT AUTHORIZATION AND ACCEPTANCE:

STRAND ASSOCIATES, INC.®

Joseph M. Bunker 7/26/24
Joseph M. Bunker Date
Corporate Secretary

CITY OF STOUGHTON

Tim Swadley 7-24-24
Tim Swadley Date
Mayor

ATTEST:

Candee Christen 7-24-24
Candee Christen Date
City Clerk

Attachment A: Wage Scale and Billing Rates

	Hourly Billing Rates*
Principal Engineer	$246
Senior Project Manager	$207 to $246
Project Managers	$117 to $217
Project Engineers and Scientists	$ 91 to $146
Engineering Technicians and Draftspersons	$ 51 to $175
Administrative	$106 Average

* Updated annually on July 1

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www.strand.com

Task Order No. 22-04
Stoughton Utilities (Utility)
and Strand Associates, Inc.® (Strand)
Pursuant to Agreement for Technical Services dated May 15, 2014

Project Information

Project Name: Fourth Street, Fifth Street, and South Street Utility Construction

Project Description: Replacement of sanitary sewer and water main on Fourth Street, Fifth Street, and South Street in association with street reconstruction.

Services Description: Design and Bidding-Related Services

Scope of Services

Strand will provide the following services to Utility.

Design Services

1. Request underground utility locates and conduct topographic survey within the right-of-way for the street reconstruction project. Prepare base mapping drawings based on survey.

2. Design up to 150 linear feet (LF) of sanitary sewer on Fourth Street between South Alley and Main Street, 300 LF of sanitary sewer on Fifth Street between South Street and Jefferson Street, and 1,250 LF of sanitary sewer on South Street between Eighth Street and Fourth Street; and prepare plan and profile drawings.

3. Design up to 950 LF of water main on Fourth Street between the Yahara River Bridge and Main Street, 350 LF of water main on Fifth Street between South Street and Jefferson Street, and 650 LF of water main on South Street between Fourth Street and Sixth Street; and prepare plan and profile drawings.

4. Prepare erosion control drawings and construction details.

5. Prepare construction staging and traffic control drawings.

6. Prepare and submit permits, drawings, and specifications to the Wisconsin Department of Natural Resources for review and approval of sanitary sewer and water main.

7. Meet with Utility to review design drawings. Incorporate Utility review comments, as appropriate.

8. Prepare Bidding Documents using Engineers Joint Contract Documents Committee C-700 Standard General Conditions of the Construction Contract, 2018 edition, technical specifications, and engineering drawings.

Bidding-Related Services

1. Distribute Bidding Documents electronically through QuestCDN, available at www.strand.com and www.questcdn.com. Submit Advertisement to Bid to Utility for publishing.

2. Prepare addenda and answer questions during bidding.

3. Conduct bid opening electronically through QuestCDN, tabulate and analyze bid results, and assist Utility in the award of the Construction Contract.

4. Prepare up to three sets of Contract Documents for signature.

Compensation

Utility shall compensate Strand for Services under this Task Order on an hourly rate basis plus expenses an estimated fee of $77,000.

Schedule

Services will begin upon execution of this Task Order, which is anticipated the week of January 9, 2023. Services are scheduled for completion on June 30, 2024.

In witness whereof, the parties hereto have made and executed this Task Order.

STOUGHTON UTILITIES

01/16/2023
Jill Weiss, P.E. Date
Utilities Director

STRAND ASSOCIATES, INC.®

1/25/23
Joseph M. Bunker Date
Corporate Secretary

STRAND ASSOCIATES®
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Strand Associates, Inc.®
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Madison, WI 53715
(P) 608.251.4843
www.strand.com

Amendment No. 1 to Task Order No. 22-04
Stoughton Utilities (Utility)
and Strand Associates, Inc.® (Strand)
Pursuant to Agreement for Technical Services dated May 15, 2014

This is Amendment No. 1 to the referenced Task Order.

Project Name: Fourth Street, South Street, and Fifth Street Utility Construction

Under **Project Information**, REPLACE the Services Description in its entirety with the following: "Design, Bidding-, and Construction-Related Services."

Under **Scope of Services**, ADD the following:

"Construction-Related Services

1. Provide contract administration services including attendance at the preconstruction conference, review up to two iterations of contractor's shop drawing submittals, review of contractor's periodic pay requests, periodic site visits, up to four monthly construction progress meetings, and participation in project closeout.

2. Provide up to six staking trips for one iteration of construction staking for sanitary sewer and water main. Additional iterations of construction staking shall be considered additional services.

3. Provide resident project representative for up to 430 hours of full-time construction observation.

4. Provide record drawings in electronic format from information compiled from contractor's records. Strand is providing drafting Services only for record drawings based on the records presented to Strand by contractor and Utility. Strand will not be liable for the accuracy of the record drawing information provided by contractor and Utility."

Under **Compensation**, CHANGE $77,000 to "$176,000."

Under **Schedule**, CHANGE June 30, 2024, to "December 31, 2025."

TASK ORDER AMENDMENT AUTHORIZATION AND ACCEPTANCE:

STRAND:	UTILITY:
STRAND ASSOCIATES, INC.®	STOUGHTON UTILITIES
DocuSigned by: Joseph M. Bunker 80EAD785BE9D427... 7/1/2024	DocuSigned by: Jill Weiss B79088FBB499405... 7/1/2024
Joseph M. Bunker Date	Jill Weiss, P.E. Date
Corporate Secretary	Utilities Director

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