



Proposal for

Water Storage Tank Rehabilitation Improvement Project No. 20-50

City of Blaine, Minnesota

SEH No. BLAIN 156821 | August 24, 2020



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Engineers | Architects | Planners | Scientists



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August 23, 2020

RE: Water Storage Tank Rehabilitation
Improvement Project No. 20-50
City of Blaine, Minnesota
SEH No. P-BLAIN 156821 14.00

Mr. Jon Haukaas, PE
Director of Public Works
City of Blaine
1801 101st Avenue NE
Blaine, MN 55449

Dear Jon:

Thank you for your Request for Proposal (RFP) for the cleaning and repairs necessary on your three water storage facilities in the City of Blaine.

As we have conducted the initial inspections on all five of your water storage tanks, SEH is intimately familiar with the details of each of your facilities. In the case of the your Lexington tank, we provided construction documents in 2010, and our contracting partner, Classic Protective Coatings performed the coatings rehabilitations on both the Hamline and Aquatone tanks, over the last several years.

For this project, we wanted to present you with the absolute best of our tank maintenance team. We provide a unique combination of professional engineers, certified coatings specialists, and tank inspectors, each with a specific role on your project in order to minimize overall cost.

Jana Nyhagen is the Operations Manager for our comprehensive Water Tank Maintenance Services (WTMS) program. She currently oversees the initial rehabilitation and ongoing maintenance needs for nearly 40 water similar storage tanks, throughout the upper Midwest. Patrick Skodje is a recent addition to our SEH team and the leader of our Protective Coatings group. He brings over 20 years of practical coatings experience from the contracting industry to our staff.

These two individuals will manage our internal team of NACE-certified inspectors, each of whom have a long inspection history of similar projects throughout the metro area.

It has been our privilege to serve the City of Blaine with your tank inspections. But as you are aware, SEH provides a number of other related services, including your recent street-improvement project. Failure to **exceed your expectations** on these tank projects may jeopardize our working relationship on our other more traditional engineering projects. *A risk we are simply not willing to take.*

If you have any questions or requests for additional information, please contact me at 612.741.5411.

Thanks again for this opportunity.

Respectfully submitted,

Jana Sprague, PE
Principal

Jana Nyhagen, PE NACE
Operations Manager

Patrick Skodje, NACE
Protective Coatings Manager

Engineers | Architects | Planners | Scientists

Short Elliott Hendrickson Inc., 3535 Vadnais Center Drive, St. Paul, MN 55110-5196

SEH is 100% employee-owned | sehinc.com | 651.490.2000 | 800.325.2055 | 888.908.8166 fax



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RE: Water Storage Tank Rehabilitation
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City of Blaine, Minnesota
SEH No. P-BLAIN 156821 14.00

Mr. Jon Haukaas, PE
Director of Public Works
1801 101st Ave NE
Blaine, MN 55449

Dear Jon:

As per your request, the City of Blaine is in need of full-service design, inspection and contract administration services for the reconditioning of the City's Hamline Ave Water Tower #3, Lexington Ave Water Tower #4 and the Sunnyside Ground Storage Reservoir. Short Elliott Hendrickson Inc. (SEH®) appreciates the opportunity to submit a proposal for providing these services. This proposal includes our scope of services; including project approach, schedule, project personnel, relevant experience and references, performance, project fees, and benefits to the City.

Our team's many advantages include extensive water tank construction and coatings inspection experience throughout the Midwest, as well as being one of the few Minnesota engineering consultants with an in-house protective coatings management staff, including personnel with prior contractor field and office work experience. This expertise has translated into numerous awards from the American Council of Engineering Companies (ACEC), related to water tower reconditioning.

PROJECT UNDERSTANDING

SEH has reviewed the evaluations and recommendations of each facility as completed by SEH in January 2019 and May 2020. In addition, discussions with the City have been conducted to determine the City's directives in relation to the maintenance and long-term service of these facilities. The evaluation and discussion with the City were used to determine the approach for this project to meet the City's scope. After reviewing the provided information and recommendations, we understand your project expectations, the work required for these facilities, and the staffing and scheduling needs necessary for a successful project outcome.

PROJECT TEAM

All proposed services will be completed by SEH with our own personnel. Jana Nyhagen will be the Project Manager and Project Engineer for this City of Blaine project and is a NACE Certified Coating Inspector. With a career in water distribution planning and specification development for water storage reconditioning in excess of 18 years, Jana brings experience

specializing in project management involving protective coatings and rehabilitation projects. This experience assists with contractor scheduling and logistics, foresight of project complications to reduce or eliminate potential change orders prior to the bid phase and contract work, and the level of critical inspection required to successfully complete a project while providing value to the owner in the reduction of overall cost.

With respect to project inspection, SEH will provide the City with NACE Certified Inspection by NACE CIP I, Kyle Linscott working under the direct supervision of the project manager. SEH NACE CIP II, Jeff Joseph will be assigned as an alternate inspector.

Additional team members include Protective Coatings Manager Patrick Skodje with more than 30 years of experience leading coatings teams, coatings expert Joe Cesarek with more than 40 years of protective coatings experience as well as Telecommunications Manager and Principal, Dan Zienty who brings more than 25 years of project management experience.

PROJECT APPROACH

SEH will work directly with City staff to implement the recommendations to recondition these three (3) facilities. The scope of work, based upon the evaluation reports and review with the City, incorporates 3 individual bid packages to be completed during the 2020 Construction Season including:

- Hamline Ave Water Tower # 3 – 1.0 MG Hydropillar Tank constructed in 1981 and last painted in 2013
 - Exterior Repairs and Modifications
 - Cleaning the overflow pipe and screen replacement
 - Exterior Coating Rehabilitation
 - Power wash clean to remove dirt and mildew accumulation
 - Spot prepare and spot coat minor damage and delamination areas
 - Interior Coating Rehabilitation
 - Prepare and coat areas of the access tube ladder and access tube weld seams
- Lexington Ave Water Tower #4 – 2.0 MG Composite Tank constructed and last painted in 2009
 - Exterior Coating Rehabilitation
 - Power wash cleaning, spot prepare areas of delamination and application of a top coat
 - Interior Coating Rehabilitation
 - Abrasive blast and replacement of the dry tube areas of delamination and rust bleed
- Sunnyside Ground Storage Reservoir – 5.0 MG concrete structure constructed in 1987
 - Exterior Coating Rehabilitation
 - Power wash cleaning and application of top coat
 - Interior Repairs and Modifications
 - Power wash cleaning and sediment removal

SEH is well aware of the costs in completing a reconditioning project, both through on-going reconditioning projects within the region and through our project manager's past work experience. Today's coating systems are formulated to last 15 to 20 years with periodic

maintenance. The success of the project starts with attention to the initial preparation of the surface and application of the coating system, which is why inspection of the work becomes so important. This schedule will fall within a single Construction Season, minimizing each facility's out-of-service time to the City's water system.

Estimated Construction Schedules

- Hamline Ave Water Tower #3 3 weeks
- Lexington Ave Water Tower #4 4 weeks
- Sunnyside Reservoir 3 weeks

Finally, SEH will incorporate provisions into the specification requiring a two-year contractor warranty for each facility. This proposal includes services for conducting the warranty inspection.

PROJECT SCHEDULE

Upon your authorization, SEH is ready to proceed. The overall project schedule is based on the City's ability to remove these facilities from service independently without detriment to its water distribution system or residents. As identified above, a formal timing of the project will be confirmed with City staff at the initiation meeting.

Aside from scheduling issues specific to demands on water distribution, ambient conditions needed for proper coating application and cure are required. Therefore, our schedule will take into consideration timing, sequencing of operations, and product selection.

Event	Date
Consultant Selection	Week of September 7, 2020
Submit Draft Plans/Specifications for City Review	Week of October 19, 2020
Advertise for Bids	Week of November 2, 2020
Bid Opening	Week of November 30, 2020
Project Award	Week of December 21, 2020
Preconstruction Meeting	Week of April 13, 2021
Early Project Commencement	Week of May 24, 2021
Late Project Completion	Week of September 13, 2020

**Project schedule dates are flexible to meet the demands of the City for this facility and will be finalized based on when each facility may be taken out of service.*

SCOPE OF WORK

I. Design Services and Construction Document Preparation

The work tasks and deliverables for this section shall include:

- Pre-Design
 - Review inspection reports and photos
 - Field Review/Engineering Evaluation of each of the three facilities, noting any observed discrepancies with the inspection reports

- Meet to review recommendations with the City to determine scope
- Establish overall project requirements and objectives related to contractor procurement and schedule
- Construction Document Preparation
 - Prepare contract documents, drawings, and specifications, including both general conditions and technical sections as related to facility surface preparation and coating application (*Specifying systems in accordance with AWWA D102*), and structural modifications.
 - Meeting (1) with City staff to review plans and specifications
 - Submit final contract documents to the City in electronic format for review and approval
 - Prepare final engineer's estimate and schedule based on the final plans
 - Provide permit application and specification to the Minnesota Department of Health
 - *Permitting fee(s) reimbursed by the City of Blaine

II. Bidding Administration

The work tasks and deliverables for this section shall include:

- Prepare advertisement for bid and submit to required publications
- Provide response to bidder questions
- Issue addenda, as applicable
- Attend bid opening and prepare a tabulation of the bids
- Review bids and prepare letter of award recommendation to the City Council
- Prepare Notice of Award and Contract Agreement and forward to contractor

III. Contract Administration

The work tasks and deliverables for this section shall include:

- Coordinate and facilitate a pre-construction meeting and subsequent meeting minutes
- Coordinate telecom tenant shutdowns and service interruptions
- Perform periodic on-site reviews of project work and provide status reports to the City
- Coordinate and facilitate on-site progress meetings
- Prepare monthly pay request forms for City approval
- Prepare change orders, as required
- Prepare letter of final review and acceptance in coordination with the on-site inspector
- Review submittals and other pertinent documentation associated with the plans/specifications
 - Shop drawing review
 - Cleaning and preparation materials
 - Coating materials
- Final Review
 - Conduct a final project review verifying completion of punch list items with contractor

- Prepare Engineer's recommendation of project final completion
- Provide City with As-Built record drawings of the project (electronic format)

IV. Construction Observation/Inspection Services

- Construction Observation/Inspections
 - Inspection and record keeping for surface preparation and coatings will be provided by a NACE Certified Coatings Inspector. Daily records of construction activities of both the prime contractor and their subcontractors will be kept. SEH proposes to provide critical inspection services placing an emphasis of observation time on operations related to surface preparation and prime-coat application for this project as outlined below, and assumes a 5 day contractor work week. Inspections outside these operations are intended to be coordinated in cooperation with contractor, or at the City's request.
- During the project, SEH will perform the following tasks:
 - Monitor field operations and testing in accordance with the specifications, manufacturer recommendations, and government regulations as related to:
 - Surface preparation materials and equipment
 - Surface preparation operations inclusive of paint removal and approval of samples
 - Coating application materials and equipment
 - Coating operations inclusive of mixing and application
 - Prepare and file copies of reports on the construction activities
 - Work directly with residents and property owners, responding to construction related issues
 - Participate in a weekly on-site meeting with City staff during active work periods and prepare a written update including applicable progress updates for public notification(s)
 - Prepare punch list at substantial completion
 - Assist the City with coordination of facility disinfection and testing (contractor initiated)
 - Prepare final inspection letter to the contractor

PROPOSED INSPECTION EFFORT

Hamline Ave Water Tower # 3 – 1.0 MG Hydropillar

Operation	Week	Inspection Hours
Surface Preparation and Prime Coat Application	1	32
Finish Coat Application	2	24
Site Restoration/Punch-List/Disinfection	3	8
Total – Hamline Ave*		64

Lexington Ave Water Tower #4 – 2.0 MG Composite

Operation	Week	Inspection Hours
Surface Preparation and Prime Coat Application	1-2	48
Finish Coat Application	3	24
Site Restoration/Punch-List/Disinfection	4	8
Total – Lexington*		72

Sunnyside Ground Storage Reservoir – 5.0 MG concrete

Operation	Week	Inspection Hours
Interior Power Washing and Sediment Removal	1	8
Surface Preparation and Prime Coat Application	2	24
Finish Coat Application	3	8
Site Restoration/Punch-List/Disinfection	3	8
Total – Sunnyside*		48

*Inspection time includes travel and reports, in addition to time spent on site.

In circumstances where the Contractor requires additional inspection hours outside of specified working times (and/or excess of 40 hours) SEH specifications place the responsibility of additional inspection fees on the Contractor to reduce costs incurred by the City.

V. Warranty Inspection

The deliverables and work tasks for a two-year warranty inspection in accordance with this section of the proposed specification shall include:

- Contacting the City approximately six months prior to the expiration date to verify our proceeding with contracted operations
- Coordinating with the City and SEH the schedule for the inspection
- SEH notifying the contractor of the inspection date

Upon completion, a letter will be sent to the City and the contractor informing each party of the inspection results and recommended repairs, and requesting scheduling any follow up work with the City. SEH will rely on the City for access and operation of their facility as needed for completing the above operations.

Our fee does not include any necessary inspection of warranty repairs resulting from the above Warranty assessment. The City will be billed for the Warranty inspection following submission of the SEH result letter.

PROPOSED COST OF ENGINEERING SERVICES

SEH proposes to complete the tasks identified below for an estimated fee of \$61,960.00. Additional services may be provided as authorized by the City of Blaine.

Hamline Ave Water Tower # 3 – 1.0 MG Hydropillar

Task	Estimated Hours	Amount
Pre-Design and Construction Document Preparation	27	\$4,180.00
Bidding Administration	12	\$1,830.00
Contract Administration	43	\$6,565.00
Construction Observation/Inspection Services	64	\$6,855.00
Warranty Inspection – 2 Year	15	\$2,020.00
TOTAL COST		\$21,450.00

Lexington Ave Water Tower #4 – 2.0 MG Composite

Task	Estimated Hours	Amount
Pre-Design and Construction Document Preparation	27	\$4,180.00
Bidding Administration	12	\$1,830.00
Contract Administration	43	\$6,565.00
Construction Observation/Inspection Services	72	\$7,765.00
Warranty Inspection – 2 Year	15	\$2,020.00
TOTAL COST		\$22,360.00

Sunnyside Ground Storage Reservoir – 5.0 MG Concrete Reservoir

Task	Estimated Hours	Amount
Pre-Design and Construction Document Preparation	27	\$4,180.00
Bidding Administration	12	\$1,830.00
Contract Administration	28	\$4,580.00
Construction Observation/Inspection Services	48	\$5,145.00
Warranty Inspection – 2 Year	15	\$2,415.00
TOTAL COST		\$18,150.00

SEH reserves the right to submit for additional fees for services requested by the City. Further, additional change orders, as granted to the contractor, may require additional costs for administration and inspection by SEH.

SUMMARY

This Letter Agreement shall serve as the basis of work for the project described herein. If you are in agreement with the terms, please sign two copies of this Letter Agreement with proper signatures, returning one copy to our office and keeping one copy for your files.

If you have any questions regarding this proposal or the information contained herein, please contact Jana Nyhagen directly at 715.781.4567. We appreciate your consideration and look forward to continuing our working relationship with the City of Blaine.

Sincerely,

SHORT ELLIOTT HENDRICKSON INC.



Jana Nyhagen, PE (IA/IN/MN/ND/SD/WI)
Associate | Project Manager, WTMS
NACE Coating Inspector Level 1 - Cert No. 51481



Greg Anderson, PE
Client Services Manager

Accepted on this ____ day of _____, 2020

City of Blaine, Minnesota

By: _____

Tom Ryan

Printed Name

Title: Mayor

By: _____

Michelle Wolfe

Title: City Manager

JANA N. NYHAGEN, PE, NACE

ASSOCIATE/PROFESSIONAL ENGINEER

Ms. Nyhagen is a Project Manager/Engineer with 18 years of environmental related experience with SEH including; modeling, design, construction, surveying, staking, inspection and technical report writing. Jana is responsible for design, reports, permitting, and environmental documents for water projects, as well as project management. Jana is proficient in MS Word, Excel, PowerPoint, AutoCAD, Haestad Methods WaterCAD, MWHSoft H₂O Map and MWHSoft Infowater.

In 2013, Jana took over as Operations Manager for the SEH Design|Build Water Tank Maintenance Services Program. Since then she has overseen rehabilitation and maintenance on 36 tanks, which have a combined storage volume of over 46 million gallons.

Jana has spent the last several years taking water projects from inception to completion in various roles, including design engineer, construction engineer, and project manager. Jana has also completed several water system studies. She works closely with the MDH, WDNR and Public Service Commission (PSC) to obtain approvals for various projects. Jana has also provided project management and engineering for several traditionally bid water tower inspection and rehabilitation projects.

EXPERIENCE

Water Tower/Water Tower Maintenance Services/Telecom Services

Water Tower – Village of Ellsworth, Wis.

Project Manager on design and construction of a water tower to create a new pressure zone. The water tower is a glass-fused-to-steel tank on a concrete pedestal. The water tower was designed so that it could temporarily operate on a lower pressure zone until a new, adjacent well was completed. The project required an archeological survey due to the proximity to the Pierce County Poor Farm. Jana also coordinated agency approvals, including the WDNR, Public Service Commission, and the FAA.

Water Tower Maintenance Services/Telecom – Eagle River, Wis.

Project Manager for the maintenance services contract, including scheduling and coordinating work, coordinating inspections, and annual reporting of the work completed on the 0.3 MG spheroid tank. Services also include telecom coordination and FAA Lighting approval.

Water Tower Maintenance Services - Oconomowoc, Wis.

Project Manager for the maintenance services contract, including scheduling and coordinating work, coordinating inspections, and



X

**18 years
OF EXPERIENCE**

EDUCATION

Bachelor of Science
Environmental Engineering
University of Wisconsin-
Platteville (2002)

REGISTRATIONS/CERTIFICATIONS

Professional Engineer in IA
(#P22998, 2015)

Professional Engineer in IN
(#PE11600562, 2016)

Professional Engineer in MN
(#51458, 2014)

Professional Engineer in SD
(#12305, 2014)

Professional Engineer in WI
(#E-39065, 2007)

NACE Coating Inspector
Level 1 - Certified (2013),
NACE International

PROFESSIONAL ASSOCIATIONS

American Water Works
Association, Member (2010-
present)

Wisconsin Water
Association, Member (2009-
2014)

Society for Protective
Coatings, Member (2015-
present)

NACE International, Member
(2014-present)

annual reporting of the work completed on the four 0.5 MG spheroid and standpipe tanks.

Water Tower Maintenance Services/Telecom – West Allis, Wis.

Project Manager for the maintenance services contract, including scheduling and coordinating work, coordinating inspections, and annual reporting of the work completed on the two 1.5 MG legged and spheroid tanks. Services also include telecom coordination.

Water Tower Maintenance Services – Hammond, Wis.

Project Manager for the maintenance services contract, including scheduling and coordinating work, coordinating inspections, and annual reporting of the work completed on the 0.2 MG spheroid tank.

Water Tower Rehabilitation Services – River Falls, Wis.

Project Manager for two rehabilitation projects, which varied from minor upgrades and an exterior overcoat to major modifications and a complete interior and exterior blast and re-coat. Jana's tasks included scheduling and coordinating work, coordinating inspections, and reviewing contractor submittals.

Water Tower Maintenance Services – Lakeland, Minn.

Project Manager for the maintenance services contract, including scheduling and coordinating work, coordinating inspections, and annual reporting of the work completed on the 0.3 MG standpipe tank. Recommendation and coordination was also provide for installation of tank mixing equipment.

Water Tower Maintenance Services – Rush City, Minn.

Project Manager for the maintenance services contract, including scheduling and coordinating work, coordinating inspections, and annual reporting of the work completed on the 0.3 and 0.5 MG spheroid tanks. The tanks were reconditioned during the same construction season, which required coordination in having only one tank out of service at a time.

Water Tower Maintenance Services – Barnum, Minn.

Project Manager for the maintenance services contract, including scheduling and coordinating work, coordinating inspections, and annual reporting of the work completed on the 125,000-gallon legged tank.

Water Tower Maintenance Services – Hopkins, Minn.

Project Manager for the maintenance services contract, including scheduling and coordinating work, coordinating inspections, and annual reporting of the work completed on the 0.5 MG legged tank and 2.0 MG toro-tank and standpipe.

Water Tower Maintenance Services - Cottage Grove, Minn.

Project Manager for the maintenance services contract, including scheduling and coordinating work, coordinating inspections, and annual reporting of the work completed on the 1.0 MG hydropillar

AREAS OF EXPERIENCE

Modeling, Design,
Construction, Surveying,
Staking, Inspection and
Technical Report Writing

tank and 3.0 MG standpipe tank. These tanks require significant coordination with telecom tenants.

EXPERIENCE PRIOR TO JOINING SEH

Jana's previous responsibilities included all project phases, including water, storm, and sanitary sewer extensions, road construction, and site grading. She gathered preliminary site survey information, drafted existing conditions and proposed changes, assisted in specification writing, provided construction staking and construction inspection, and edited drawings for as-builts.

PRESENTATIONS

Water Tower Case History: Eagle River Aging Gracefully,
Wisconsin Section of AWWA Technical Conference, September 2015

Water Tank Maintenance - Protecting Your Tank and the Water In It
| Hammond, Wis., Midwest Water & Wastewater Operator Expo
(Central States Water Environment Association & Wisconsin Water Association), February 2015

EENIE, NEMA, ANSI & MO, Making Sense of Industry Acronyms,
Wisconsin Rural Water Association (WRWA) Technical Conference,
March 2013

Web Tools You Can Use, Wisconsin Rural Water Association
(WRWA) Technical Conference, April 2011

Implementing Disinfection, Wisconsin Rural Water Association
(WRWA) Technical Conference, March 2010

Water Reuse, The Future is Now!, Wisconsin Rural Water
Association (WRWA) Technical Conference, March 2009

Making Sense of Main Materials, Wisconsin Rural Water
Association (WRWA) Technical Conference, April 2008

Inspecting Your Inspector, Wisconsin Rural Water Association
(WRWA) Technical Conference, March 2007

PATRICK SKODJE

COATINGS MANAGER

Mr. Skodje is a Protective Coatings Manager with extensive experience helping communities throughout the Midwest ensure long-term asset protection of facilities, storage tanks and process equipment. Patrick coordinates coating related evaluations, design services, construction administration and National Association of Corrosion Engineers (NACE) inspections. Patrick holds several certifications including NACE Level III Coatings Inspector and Society for Protective Coatings (SSPC) Quality Control Supervisor. A former Chair of the SSPC-North Central Region Chapter and President of the North Dakota Construction Council, Patrick is actively involved in the industry and is knowledgeable of evolving technologies and trends.



X

30 years
OF EXPERIENCE

EDUCATION

FMI Construction Executive
Institute FMI Leadership
Institute

REGISTRATIONS/CERTIFICATIONS

Remote Pilot (2019), Federal
Aviation Administration

Ground Instructor (2007),
Federal Aviation
Administration

Private Pilot (1994), Federal
Aviation Administration

NACE Certified Coating
Inspector - Level 3 (2006),
NACE International

PROFESSIONAL ASSOCIATIONS

The Society for Protective
Coatings, Member, Trainer
(2002)

NACE International (2005)

SSPC North Central States
Chapter (2003)

EXPERIENCE

STPWU Water Tank Assessments (Saint Paul Regional Water Services)

Project Manager for evaluation and recommendations of 8 water towers

ELKMU Gary St WT Rehab Inspect (Elk River Municipal Utilities)

Project Manager for rehabilitation of 1.0 MG Hydropillar Water Tower

HUDSO Wisconsin St. WT Recond. (City of Hudson)

Project Manager for reconditioning of 300,000 G Elevated Legged Water Tower

WHBRL Centerville Tower Rehab. (City of White Bear Lake)

Project Manager for rehabilitation of 1.0MG Hydropillar Water Tower

West Water Tower Rehabilitation (City of Little Falls) – Little Falls, MN

Project Manager for rehabilitation of 1.0 MG Elevated Legged Water Tower

SSTPA Alice Ct. WT Recondition (City of South Saint Paul)

EXPERIENCE PRIOR TO JOINING SEH

Jones Island WRF Secondary Clarifier Upgrade (Milwaukee Metropolitan Sewerage District/JF Ahern) – Milwaukee, WI

Biogas Conditioning & Main Campus HS Project (WLSSD/Lakehead Constructors) – Duluth, MN

Metropolitan Waste Treatment Plant Solids Management Building (MCES/Harris Companies) – St Paul, MN

SEH D|B WATER TANK MAINTENANCE PROGRAM CLIENTS

City of Barnum, Minnesota

Mr. Brett Collier
Public Works Supervisor
3741 Front Street
Barnum, MN 55707
Phone | 218.389.6814

Ten-year tank maintenance contract including:

- 125,000-gallon elevated legged tank



The existing tank coatings included the presence of heavy metals and required careful removal and

Brainerd (MN) Public Utilities

Mr. Scott Magnuson
Utility Superintendent
8027 Highland Scenic Road
Brainerd, MN 56401
Phone | 218.829.8726

Ten-year tank maintenance contract including:

- 1.5 MG elevated toro-spheroid tank
- 600,000-gallon elevated radial cone tank



The tank protective coatings were completely rehabilitated and incorporated several OSHA safety improvements.

Engineers | Architects | Planners | Scientists

Short Elliott Hendrickson Inc., 3535 Vadnais Center Drive, St. Paul, MN 55110-5196
SEH is 100% employee-owned | sehinc.com | 651.490.2000 | 800.325.2055 | 888.908.8166 fax

City of Cottage Grove, Minnesota

Mr. Rick Alt
Public Works Supervisor
8635 West Point Douglas Road South
Cottage Grove, MN 55016
Phone | 651.458.2842
Ten-year tank maintenance contract including:

- 1.0 MG West Draw hydropillar tank
- 3.0 MG Innsdale ground storage tank



The rehabilitated tank includes a comprehensive 10-year warranty to protect against coating failures.

Village of Hammond, Wisconsin

Mr. Tony Bibeau
Village President
455 Davis Street
Hammond, WI 54015
Phone | 715.796.2727
Ten-year tank maintenance contract including:

- 200,000-gallon spheroid pedestal tank



The Hammond tank included a very tight



This is one of two single pedestal tanks located in Hammond.

City of Little Canada, Minnesota

Mr. Bill Dircks
Director of Public Works
515 Little Canada Road East
Little Canada, MN 55117
Phone | 651.766.4049
Five-year tank maintenance contract (expired)
including:

- 1.5 MG hydropillar tank



The hydropillar in Little Canada is tightly-located in a residential area.



An all-encompassing containment curtain was utilized to minimize any potential impact from the rehabilitation on the surrounding neighborhood.

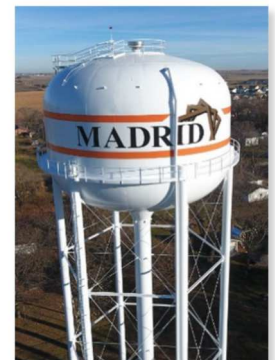
City of Madrid, Iowa

Mr. Scott Church
Public Works Director
304 South Water Street
Madrid, IA 50156
Phone | 515.795.3930
Ten-year tank maintenance contract including:

- 500,000-gallon elevated legged tank
- 50,000-gallon lime storage tank



This 500,000-gallon legged tank was one of two tanks rehabilitated in Madrid, Iowa. The rehabilitation of this tank included several AWWA and



The revised color scheme and updated logo has provided the city of Madrid

Mora (MN) Public Utilities

Ms. Lindy Crawford
City Administrator
101 South Lake Street
Mora, MN 55051
Phone | 320.225.4806

Ten-year tank maintenance contract including:

- 500,000-gallon elevated hydropillar tank



The city of Mora sought to replace the high school mascot name...



...with an updated color, font, and city slogan.

City of Hopkins, Minnesota

Mr. Steve Stadler
Director of Public Works
1010 1st Street
Hopkins, MN 55343-7573
Phone | 952.939.1338

14-year tank maintenance contract including:

- 2.0 MG Moline toro-standpipe tank
- 500,000-gallon Blake elevated legged tank



The finished tank incorporated safer access and improved community identity.

SEH Hourly Billable Rate Range

<i>Classification</i>	<i>Billable Rate⁽¹⁾</i>
Office Staff	
Principal	\$165.00 - \$265.00
Project Manager	\$140.00 - \$235.00
Senior Project Specialist	\$135.00 - \$215.00
Project Specialist	\$100.00 - \$175.00
Senior Professional Engineer I	\$115.00 - \$175.00
Senior Professional Engineer II	\$140.00 - \$220.00
Professional Engineer	\$105.00 - \$165.00
Graduate Engineer	\$85.00 - \$125.00
Senior Architect	\$120.00 - \$210.00
Architect	\$100.00 - \$150.00
Graduate Architect	\$85.00 - \$110.00
Senior Landscape Architect	\$115.00 - \$170.00
Landscape Architect	\$95.00 - \$120.00
Graduate Landscape Architect	\$85.00 - \$100.00
Senior Scientist	\$130.00 - \$170.00
Scientist	\$90.00 - \$130.00
Graduate Scientist	\$80.00 - \$100.00
Senior Planner	\$130.00 - \$205.00
Planner	\$95.00 - \$140.00
Graduate Planner	\$80.00 - \$105.00
Senior GIS Analyst	\$105.00 - \$170.00
GIS Analyst	\$90.00 - \$120.00
Project Design Leader	\$120.00 - \$180.00
Lead Technician	\$105.00 - \$165.00
Senior Technician	\$85.00 - \$135.00
Technician	\$65.00 - \$110.00
Graphic Designer	\$90.00 - \$140.00
Administrative Professional	\$55.00 - \$125.00
Field Staff	
Professional Land Surveyor	\$110.00 - \$155.00
Lead Resident Project Representative	\$95.00 - \$150.00
Sr. Project Representative	\$90.00 - \$135.00
Project Representative	\$75.00 - \$125.00
Survey Crew Chief	\$85.00 - \$130.00
Survey Instrument Operator	\$60.00 - \$95.00

⁽¹⁾ The actual rate charged is dependent upon the hourly rate of the employee assigned to the project. The rates shown are subject to change.

Effective: January 1, 2020
Expires: December 31, 2020



seh hourly billable rate range

SEH Schedule of Expenses – 2020

Vehicle Mileage Rates

Current IRS rate if IRS rate is whole cents, otherwise rounded down to nearest whole cent.

Vehicle Allowance Costs

Resident Project Representative \$16.00/day

Survey and Field Vehicle \$4.50/hour + mileage as referenced above

Survey Equipment

Robotic Total Station \$30.00/hour

Global Positioning System (GPS) \$30.00/hour

Computer Equipment

Computer Charges per Direct Hour of Labor \$3.00/hour

Other Equipment Expenses

SEH uses many different types of equipment, such as traffic counters; flow meters; air, water, and soil sampling kits; inspection cameras; density meters; 3-D printers; drones, and many others. Our equipment is frequently upgraded to utilize current technology.

You will be charged for equipment usage per your agreement with SEH.

Rates are subject to change.

Identifiable Reproduction and Reprographic Costs ^{(1) (2)}

Item	8½x11	11x17	Large Format	Per Item
Black/White Copy ⁽³⁾	0.07	0.24	0.95 + 0.50/sq. ft.	
Color Copy ⁽³⁾	0.46	1.02	0.95 + 2.55/sq. ft.	
Mylar			5.00	
CD Copy				3.00
Lamination	2.00	3.50	3.50/sq. ft.	
Laminated Foamcore				
– up to 30"x 42"			40.00	
– larger than 40"x 60"			75.00	
3-Ring Binder <i>size</i>	1"	2"	3"	4"
<i>cost</i>	3.20	4.80	5.60	7.24
Machine Folding				0.02
Binding				
wire				3.60
comb				3.20
Covers				
custom				0.15
blank				0.03
Tabs (white)				0.20
Mailing/Processing				UPS or USPS rates

⁽¹⁾ prices include operator time

⁽²⁾ prices denote single-sided printing

⁽³⁾ standard stock, white paper used for pricing

Prices are subject to change and may not be accompanied by immediate notification.



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for All of Us®

SHORT ELLIOTT HENDRICKSON INC.