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WHITE LAKE TOWNSHIP DEPARTMENT OF PUBLIC SERVICES

7525 Highland Road, White Lake, Michigan 48383-2900, (248) 698-7700, www.whitelaketwp.com

November 14, 2022

Honorable Board of Trustees
Charter Township of White Lake
7525 Highland Road
White Lake, MI 48383

Re: DLZ Proposal – WLT CWSRF 5900-1 2023 Sanitary Sewer Relining and Manhole Repair

Honorable Board of Trustees,

In January and early February 2022, White Lake and DLZ Engineering of Michigan had been in discussions with the State Revolving Fund regarding The American Rescue Plan Act (ARPA) and Infrastructure Investment and Jobs Act (IIJA) monies being allocated through the State Revolving Funds. The Township Board approved the project plan development at the February 17, 2022 Special Board Meeting. The Final Project Plan was presented and adopted by Resolution 22-021 at the May 17, 2022 Regular Board Meeting. The executive summary of the project plan is attached.

On October 31, 2022, DPS was notified by the State Revolving Fund that our Project 5800-01 is now fundable for Fiscal Year 2023 (FY23) for a CWSRF \$2,855,000 loan and that we would qualify for 10% (\$285,000) principal forgiveness.

The next step is to approve the engineering proposal so that we can then request bids for the project. As always with SRF projects there is an aggressive timeline per a milestone schedule for the project that is issued by the State. The services contained in the project budget were expected to be \$187,000 however the attached proposal is significantly less at \$130,000 once a deeper dive into the project details.

I request the Township Board approve the DLZ proposals, Professional Engineering Services WLT CWSRF 5900-1 2023 Sanitary Sewer Relining and Manhole Repair, in an amount not to exceed \$130,000. I request the Township Supervisor be authorized to execute the agreement.

Please feel free to contact me if you have any questions.

Sincerely,

A handwritten signature in black ink that reads "Aaron Potter". The signature is written in a cursive style with a large, looped "A" and "P".

Aaron Potter
DPS Director
White Lake Township

EXECUTIVE SUMMARY

The Charter Township of White Lake completed and submitted a Stormwater, Asset Management, and Wastewater (SAW) Grant project in December 2019. The SAW Wastewater Asset Management Plan (WWAMP) document identified 14,011 feet of sanitary sewer, 22 gravity manholes, and 21 pressure manholes that are in need of repair and rehabilitation.

A general concern with the existing infrastructure is the accumulation of hydrogen sulfide resulting in the corrosion and damage of the concrete structures. This buildup of hydrogen sulfide is due to low flows from the current lack of connections made to the sanitary system, hence the absence of adequate flow results in stagnant zones for hydrogen sulfide to accumulate. Because of the excessive hydrogen sulfide, the Township has conducted CCTV inspections on an annual basis and has confirmed structural damage and corrosion in their existing infrastructure. The most prominent location of hydrogen sulfide buildup is at the intersection of Elizabeth Lake Road and Union Lake Road, where the pressure sewer discharges into the gravity main. Based on the CCTV inspection results showing where the excessive hydrogen sulfide buildup is located, the Township has proposed to conduct Cast in Place (CIP) Pipe Lining to rehabilitate and protect 14,011 feet of sanitary sewer, 22 gravity manholes, and 21 pressure manholes from corrosion due to hydrogen sulfide.

In 2022, the Township authorized the preparation of this 2023 Clean Water State Revolving Fund (CWSRF) Project Plan to develop a strategy to rehabilitate their existing infrastructure. Information from this plan will be incorporated into an application document that will be submitted to the Michigan Department of Environment, Great Lakes, and Energy (EGLE) for consideration to receive a CWSRF low interest construction loan to line the gravity main and manholes to be more reliable and to prevent failure of the wastewater conveyance system. The Township submitted an Intent to Apply Form in January 2022 to EGLE, which is also included in Appendix I.

Proposed projects that have been identified to be included in the Project Plan are:

- Cast in Place Pipe Lining of 14,011 feet of Gravity Sewer Main.
 - Cast in Place Lining of 22 Gravity Manholes.
 - Cast in Place Lining of 21 Pressure Manholes.
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INNOVATIVE IDEAS
EXCEPTIONAL DESIGN
UNMATCHED CLIENT SERVICE

November 11, 2022

Mr. Rik Kowall
Supervisor
White Lake Township
7525 Highland Road
White Lake, MI 48383

Re: Clean Water State Revolving Fund (CWSRF) – Sanitary Sewer Relining and Manhole Repair

Dear Mr. Kowall:

DLZ Michigan, Inc. (DLZ) is pleased to submit this proposal for continued professional engineering services related to design engineering and bidding services to the Charter Township of White Lake (TOWNSHIP) for the CWSRF Sanitary sewer lining and manhole repair along Union Lake Road, Farnsworth Road, Hutchins Road, Round Lake Road, and Cooley Lake Road. Design services will be in accordance with conclusions and recommendations developed in the 2022 Clean Water State Revolving Fund Project Plan (CWSRF Project Plan). The plan was prepared by DLZ.

BACKGROUND

Based on the findings presented in the recently completed CWSRF Project Plan, it is our understanding that the TOWNSHIP is committed to facilitating design and construction of sanitary sewer relining and manhole rehabilitation for utilities identified in the CWSRF Project Plan.

Approximately 14,011 feet of sanitary gravity main will be lined and rehabilitated from the intersection at Elizabeth Lake Road and Union Lake Road running south along Union Lake Road, Farnsworth Road, Hutchins Road, and Round Lake Road to Cooley Lake Road. The Cast-In-Place (CIP) relining method allows the TOWNSHIP to protect their existing infrastructure from corrosive damage due to excessive hydrogen sulfide buildup.

In addition, 22 gravity manholes and 21 pressure manholes will be repaired and rehabilitated utilizing similar CIP methods. A portion of the gravity manhole structures are located along the stretch of gravity main that will also be relined, with the rest located within the Autumn Glen Subdivision. The 21 pressure manholes are primarily scattered north of Highland Road and Pontiac Lake Road. Like the gravity main, these manhole structures will be repaired to address damage from the excessive buildup of hydrogen sulfide.

SCOPE OF SERVICES – DESIGN ENGINEERING

- DLZ will meet with representatives of White Lake TOWNSHIP to verify the scope of the project and to gather input on the proposed gravity main and manhole lining and repairs. Topics during these discussions shall include owner logistics, restoration issues, involvement with third party regulatory agencies, and interaction with other Township departments.
- DLZ will prepare contract documents for the sewer and manhole rehabilitation project, which will consist of standard Construction Contract documents, technical specifications, and the Department of

Environment, Great Lakes and Energy (EGLE) requirements related to CWSRF funding requirements. Specific requirements of EGLE that must be addressed include: Disadvantaged Business Enterprise, Debarment Certification, Davis-Bacon Prevailing Wage Rate requirements, and American Iron and Steel requirements. DLZ will also prepare any documents and requirements for the Build America, Buy America Act (BABAA).

- DLZ will initiate interim review meetings with the parties affected by the proposed construction to include: the TOWNSHIP, COUNTY, and EGLE staff, as necessary.
- DLZ will identify permits that may be required for the prosecution of this project to include: EGLE permits for sanitary sewers (Part 41 of Act 451), Road Commission permits, Soil Erosion and Sedimentation Control permits, and other permits as may be required. DLZ will prepare all applications for permits. **This agreement does not include application fees for permits.**
- Based on comments received in review meetings, described above, DLZ will complete the final plans and specifications for bidding. Based on the final plans, DLZ will prepare estimates of probable costs for the proposed improvements and will assist the TOWNSHIP by supplying information for bonding. We will include in our estimates of probable costs our estimated cost for material testing services to be utilized in the construction phase of the project.
- DLZ will conduct final review meetings with the TOWNSHIP. Topics will include the following: bidding schedule; logistics of pre-bid meeting(s); agenda items for pre-bid meeting(s); locations for taking bid(s); post bid requirements; EGLE scheduling issues; and EGLE requirements related to bond sales.
- DLZ will conduct a pre-bid meeting related to the project as described above. DLZ will prepare an agenda, conduct the meeting, take minutes and disseminate the minutes in the form of an addendum. In addition, DLZ will answer questions of prospective bidders and plan holders during the bidding process. DLZ will prepare addenda as required.
- DLZ will assist the TOWNSHIP in taking competitive bids for construction of the proposed improvements. Upon receipt of bids, DLZ will prepare tabulations and make recommendations to the TOWNSHIP within the required time frames to meet EGLE requirements.
- DLZ will assist the TOWNSHIP in the preparation and submittal of documents required by EGLE to meet DWSRF requirements. This will be as relates to bidding and other requirements. DLZ will also assist in the preparation and submittal of items such as CWSRF Application Part I, II, and III submittals as relates to the project.
- Throughout the course of the project, DLZ will assist the TOWNSHIP in the preparation and submittal to EGLE of required documentation as it relates to Requests for Disbursement of Funds.
- DLZ will use their internal professional resources or contract with a firm known to have expertise in the geotechnical field to obtain subsurface information relating to soils. This information will be used in conjunction with the design and as an aid for contractors bidding the project.

SCOPE OF SERVICES – SPECIAL SERVICES

The following services, when requested and authorized by the TOWNSHIP, will be provided by DLZ or an authorized sub-consultant. Compensation for Special Services as described herein or services beyond the



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EXCEPTIONAL DESIGN
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scope of this agreement will be based our existing Services Agreement. Sub-consultant expenses will be provided and approved by the TOWNSHIP prior to commencement of work as well.

- Services due to changes in the scope and complexity of the Project(s) or their design, including, but not limited to, changes in size, alignment, or character of construction.
- Services due to unforeseen underground conditions such as, but not limited to, the presence of petroleum products in the soil or groundwater of the site as may be encountered by excavation or dewatering activities.
- Services related to dewatering activities, testing of wells, and laboratory services that may be required in connection with the Project.

SERVICE FEE

Costs in this section of the contract are below the budget limit established with the project budget presented in *Table 9 - Alternative 4 – Total Project Budget of the White Lake Township FY2023 CWSRF Project Plan*.

For services described in **SCOPE OF SERVICES, DESIGN ENGINEERING** related to preliminary and final design of Sanitary Sewer Relining and Manhole Repair, DLZ proposes to charge, and the TOWNSHIP agrees to pay a Lump Sum fee of **\$130,000.00**. Invoices will be rendered monthly.

For Services described in **SCOPE OF SERVICES, SPECIAL SERVICES** if required, DLZ proposes to charge, and TOWNSHIP agrees to pay in accordance with our existing Services Agreement.

FEE SUMMARY:

Design Engineering	\$130,000.00
Total Amount	\$130,000.00

If you approve and accept this Proposal, please sign, date and return one copy of this Proposal for our records. Should you prefer to issue a Purchase Order as your official acceptance, we request that you reference this Proposal in your paperwork.

DLZ appreciates the opportunity to submit this Letter Agreement for professional services. This offer will remain open for acceptance for 60 days. If for any reason you should have questions, please do not hesitate to call Mike Leuffgen at (248) 681-7800.

Sincerely,
DLZ MICHIGAN, INC.

Manoj Sethi, PE
President

Approved and Accepted	
Signature	_____
Printed Name	_____
Title	_____
Date	_____