

EMERGENCY RESOLUTION NO. 29-2014

A RESOLUTION AUTHORIZING THE CITY MANAGER TO ACCEPT THE PROPOSAL FOR PROFESSIONAL ENGINEERING SERVICES SUBMITTED BY LJB INC. FOR DESIGN SERVICES FOR THE UNION ROAD RETAINING WALL AND DECLARING AN EMERGENCY.

WHEREAS, the retaining wall on Union Road is rapidly deteriorating; and

WHEREAS, Council desires to proceed with design services for the repairs necessary to the retaining wall.

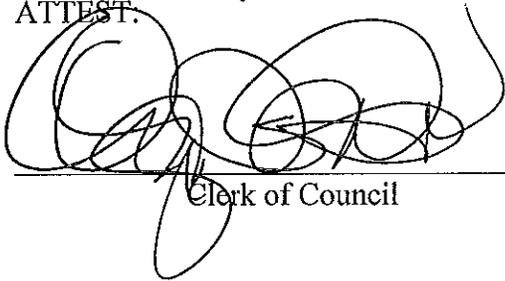
NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF MONROE, STATE OF OHIO, THAT:

SECTION 1: The City Manager is hereby authorized to accept the proposal for professional engineering services submitted by LJB Inc. for design services for the Union Road Retaining Wall pursuant to the terms and conditions set forth on Exhibit "1" attached hereto and made a part hereof.

SECTION 2: This measure is hereby declared to be an emergency measure necessary for the immediate preservation of the public peace, health, safety and welfare and further for the reason that Council desires to proceed with the design services to avoid further deterioration to the retaining wall. Therefore, this measure shall take effect and be in full force from and after its passage.

PASSED: May 27, 2014

ATTEST:



Clerk of Council

APPROVED:



Mayor

This legislation was enacted in an open meeting pursuant to the terms and provisions of the Sunshine Law, Section 121.22 of the Ohio Revised Code.

I, the undersigned Clerk of Council of the City of Monroe, Ohio, do hereby certify that the foregoing (ordinance or resolution) was published as Required by Section 7.16 of the Charter of the City of Monroe.



Clerk of Council
City of Monroe, Ohio

Exhibit "1"
E Res 29-2014



April 25, 2014

William J. Brock, P.E.
City of Monroe
233 South Main Street
Monroe, OH 45050-1330

Re: Union Road Retaining Wall Rehabilitation
Proposal for Engineering Services

Dear Mr. Brock:

Thank you for the opportunity to submit this proposal for engineering design services for the Union Road retaining wall rehabilitation project. Proposal details, including the project scope of services and tentative project schedule are attached.

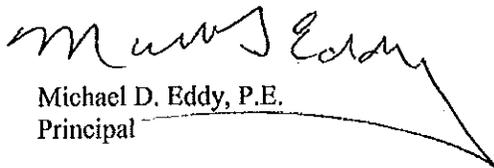
LJB proposes to complete this project according to the attached scope of services for the lump sum fee of **\$24,450**, itemized as follows:

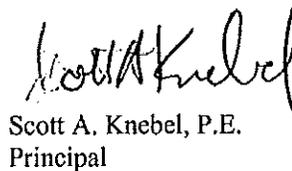
- > Survey - \$3,160
- > Soil Borings - \$4,990 (Bowser Morner)
- > Nationwide Permit Application - \$5,400
- > Structural Design (sheet pile wall) - \$9,700
- > Utility Coordination, Meetings and Project Management - \$1,200

Thank you again for this opportunity to work with the city and we look forward to assisting you with this project. If you have any questions or need additional information, please contact me at (937) 259-5070 or MEddy@LJBinc.com.

Sincerely,

LJB Inc.


Michael D. Eddy, P.E.
Principal


Scott A. Knebel, P.E.
Principal

cc: file



SCOPE OF SERVICES

Project name: Union Road Retaining Wall Rehabilitation

Client name: City of Monroe

Date: April 25, 2014

LJB Inc. has developed a detailed scope of services including project understanding, deliverables, exclusions, assumptions and project constraints. This document is based on the information known on the date of preparation and may be modified to reflect additional data received throughout the project process, if required.

PROJECT SCOPE OF SERVICES

Our understanding of the project is based on the discussions with the city during a site visit on March 28, 2014 and through e-mail correspondence. The purpose of this project is to rehabilitate a portion of the existing south sheet pile wall and replace the entire existing north sheet pile wall.

Survey

- > Both the entire north and south existing sheet pile walls will be surveyed. This survey will locate the wall geometry as well as wall elevations at the flow line, top of wall and ground line at back of wall.
- > Title Sheet – A title sheet will be prepared including project description, project vicinity map and index of sheets.

Geotechnical

- > Bowser-Morner will perform soil borings and provide geotechnical recommendations for this project. One structural boring (50 foot depth) will be taken at each wall location.

Environmental

- > LJB will prepare the application for Nationwide Permit #13 which covers bank stabilization activities provided they are less than 500 linear feet. Once the impacts are quantified, we will conduct a literature review for cultural and natural resources, conduct a qualitative stream assessment (all Corps requirements) and then proceed with the nationwide permit. An individual permit would be required for anything greater than 500 linear feet.

Structural

- > North Wall (short wall length) – a new sheet pile wall will be designed behind the existing sheet pile wall that is failing. This sheeting will be designed without tie-backs and run parallel to the existing wall at a distance of about 5 feet away from the existing. After the new sheeting is installed, the existing wall can be removed and Type A RCP can line the entire length of the new sheet pile wall.
- > South Wall (long wall length) – a similar fix to the failed section of the wall will be designed. New sheeting can be installed (designed to not need tie-backs) behind the existing sheet pile wall for the limits of the failure (100' +/-). The new sheeting can basically "connect-the-dots" from

where the failure begins and ends. After the new sheeting is installed and connected to the existing wall to remain, the failed section of wall can be removed. Type A RCP can be installed to line the new section of wall.

- > The retaining wall construction documents will include a title sheet, plan and profile of walls, typical wall sections, general notes and quantities.

Utility Coordination and Management

- > LJB will call OUPS and research known utilities. We will provide construction plans to them at preliminary and final design. It is our opinion that the existing gas line that runs parallel with the existing wall should be exposed prior to design or least prior to construction. LJB has NOT included that cost in our proposal.
- > We have included time for two project meetings.

PROJECT DELIVERABLES

The deliverables for this project will include:

Standards

- > The deliverables for this project will follow the City of Monroe standards.

Reports

- > Soil Boring Report from Bowser Morner

Plan Sets

- > LJB will provide plan sets and cost estimate at the 30%, 90% and 100% submittals.
- > The plans will be delivered to City of Monroe Engineer's Office.

Cost Estimate

LJB will provide a construction cost estimate in excel format.

PROJECT CONSTRAINTS

This scope of services was written assuming that rock is not close to the ground surface and that sheet piling can be driven to the required depths. If the outcome of the geotechnical investigation shows that rock is near the surface, a soldier pile wall will be required and a contract modification will be necessary.

ASSUMPTIONS

In preparing this scope of services, LJB has made the following assumptions:

- > Sheet pile walls will be used and a wall type study is not included.
- > The Warren County Engineer's office will also provide plan review.
- > ODOT CAD standards and 2013 specifications will be used for this project.
- > City of Monroe will prepare all general specifications and will facilitate the advertising, bidding, evaluation and award of the contract as well as all construction administration for the project.
- > The work will be entirely within existing right of way. No property work required.

EXCLUSIONS

LJB has excluded the following items in our scope of services:

- > Cost of permits
- > Hydraulic study
- > Shop drawing review
- > Utility relocation plans
- > Stormwater BMPs

PROPOSED SCHEDULE

Authorization to proceed:	May 23, 2014
30% plans submitted:	June 27, 2014
30% comments received:	July 11, 2014
90% plans submitted:	August 8, 2014
90% comments received:	August 22, 2014
100% final submittal:	September 1, 2014



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Dayton, OH 45401-0051
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937-233-2016 FAX
www.bowser-mornier.com

April 17, 2014

LJB Inc.
2500 Newmark Drive
Miamisburg, OH 45342

Attention: Mr. Daniel Springer, P.E.

Re: Quotation No. 14-2771-056,
Engineering Proposal for Soil Study,
Proposed Retaining Wall Rehabilitation
Project, Union Road, Monroe, Ohio

Dear Mr. Springer:

As you requested, our proposal to perform a soil study for the above project is described below. Thank you for the opportunity to submit this quotation.

PROJECT CHARACTERISTICS

You propose to repair or replace two sections of retaining wall along Union Road, north of State Route 63, in Monroe, Ohio.

The first section of failed retaining wall is on the east side of Union Road, along the bank of Shaker Creek, and east across the road from the parking lot for Traders World Flea Market. The second section of retaining wall is also on east side of Union Road near the intersection of Harmon Run and Shaker Creek. Mr. Springer told us that these sections of sheet pile retaining walls have failed and lean outward. Mr. Springer also told us that the replacement section of the sheet pile wall may have to be penetrated about 45 feet below the existing grade to provide the required horizontal resistance.

The purpose of this study is to determine the physical characteristics of the soil strata and to provide the recommendations for the computations of lateral earth pressures to be used by others for the design of the retaining wall. The design of these retaining walls is beyond the scope of our study.

ANALYTICAL SCIENCES • GEO-ENVIRONMENTAL SERVICES • CONSTRUCTION SERVICES

DAYTON • TOLEDO • CINCINNATI • LEXINGTON • SPRINGFIELD • BIRMINGHAM

FIELD AND LABORATORY STUDIES

As you requested, two borings, one of these borings on each section of the failed walls, will be made to evaluate the soil conditions for the retaining wall design criteria. Each of these structural borings was requested to be 50 feet deep.

Access (permission) to the site will be your responsibility. You understand that due to the size and weight of subsurface exploration equipment and vehicles some damage to landscaped areas, crops and weak pavements is unavoidable. Except in the case of Bowser-Morner's gross negligence, Bowser-Morner shall have no liability for such damage or its repair. If you desire, after the field work is complete, Bowser-Morner will provide you with a cost estimate for any landscape or pavement repair.

Bowser-Morner will avoid making subsurface penetrations in any areas where underground utilities or structures exist and such underground utilities and structures are properly identified and located. We will notify the Ohio Utilities Protection Service (OUPS) of our intent to perform subsurface investigations on the site. We will also contact underground utility owners that OUPS informs us do not participate in the OUPS program. You understand that OUPS participants and non-participating utilities are not required to identify and locate underground utilities on private property that is not part of that utility's easement. Consequently you agree to identify, either in the field or on accurate drawings, all underground utilities and structures on the site that are not within a legally recognized utility easement. Bowser-Morner shall have no liability for damage to or repair of any unidentified or mislocated underground utilities or structures. In the event of damage to unidentified or mislocated underground utilities or structures, we can, if you desire, contract with others to repair the damage and add that cost to our fee.

Standard penetration samples will be taken at 2.5-foot intervals for the first 10 feet and at 5-foot intervals thereafter. The laboratory analyses will be performed in accordance with items outlined in Attachment A.

REPORT AND LABORATORY STUDIES

The program is intended to provide the architect/engineer with geotechnical design parameters to be implemented by others into foundation design plans and specifications. The engineering report will include:

1. A discussion of the field work and laboratory testing performed for the study.
2. A description of the proposed project as we understand it.
3. A discussion of the subsurface conditions and groundwater levels beneath the project site as disclosed by the test borings.
4. Provide recommendations on computation of lateral earth pressure to be used by others for the design of the retaining walls to be based on the cross sections to be provided by the client.



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5. An evaluation of construction dewatering problems, if necessary, that are anticipated in conjunction with foundation and other excavations.
6. Logs of each test boring performed for the study, which will include standard penetration test results, borehole surface elevations, and the depths at which free ground water is encountered.
7. The results of the laboratory soil tests.
8. A vicinity map and boring location plan showing the general arrangement of the project site and the locations of the boreholes.

QUALIFICATIONS

In addition to the services outlined in this proposal, it is important to recognize services that are not included in the above scope of work. The following services are not included in this proposal:

- Design of pavement sections or retaining walls.
- Preparation of bid documents or construction cost estimates.
- Evaluation of this or adjacent properties with regard to environmental- or wetlands-related issues. (If an environmental or wetlands study is required, Bowser-Morner would be pleased to provide an additional proposal.)
- Design plan review.
- Construction observation and field testing services.

To reduce the possibility that the recommendations of our geotechnical report are improperly interpreted, we recommend that Bowser-Morner be retained after the completion of this work to review the design plan.

We also recommend that Bowser-Morner be retained to provide construction observation and testing services. Regardless of the thoroughness of a subsurface exploration, the actual soil and groundwater conditions encountered during construction may vary from those encountered in the borings. Nothing can be done to prevent unanticipated soil conditions, but steps can be taken to reduce their effects. One of the most important steps is to retain the geotechnical engineering firm of record to provide construction monitoring and field testing. If Bowser-Morner is not retained to provide these services, we cannot be liable for misinterpretation of our recommendations or construction-related problems.



INFORMATION REQUIREMENTS

We expect to be provided with copies of any information you have concerning the site that may be pertinent to our study. Such information includes, but is not limited to: previous subsurface investigation reports, current and historic topographic maps or aerial photographs, reports and test results on any fill materials placed on the site, locations and depths of buried utilities or structures, locations and design loads of intended construction.

We will rely on any information you provide; however, this proposal does not include research to establish the accuracy or completeness of provided information. We will return any documents you provide if requested to do so.

SCHEDULE, COST, AND PAYMENT

The report should be issued within four weeks after the completion of the field work and after all required documents such as prints and plans have been received from the client. The cost of this soil study for the scope of work outlined on Attachment "A" will be **\$4,990.00**. This cost does not include fees for any tow truck service if needed. The subsurface conditions at the site may be a governing factor in determining the final cost. Extra work performed beyond the scope defined on Attachment "A" will, upon the client's approval, be invoiced at the unit prices agreed upon at the time of client approval.

It should be noted that this quotation, and all of the pertinent project information in it, expires 90 days from the date of this document. Subsequent to this time period, Bowser-Morner reserves the right to review and, if necessary, revise the scope of work, costs, scheduling, or other associated items.

The work included in this proposal ends with the submission of the report. Specific items not included in this cost are: meetings or site visits, interface and implementation of the report with the designer into design plans and specifications, follow-up after our report submission, or revisions due to design changes. These will be invoiced separately after they are authorized.

Payment will be required within 30 days after the date of the invoice. Please let us know if this will present a problem.

AUTHORIZATION

This quotation is an offer by Bowser-Morner to provide the services described at the price(s) quoted herein. This offer is valid for ninety (90) days and expressly includes in the Master Subcontractor Agreement between LJB, Inc. and Bowser-Morner, Inc. dated August 27, 2008.



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We trust that this proposal meets with your approval and look forward to working with you on this project. If you have any questions, or if we can help you in any way, please call me at (937) 236-8805, extension 279.

Sincerely,

BOWSER-MORNER, INC.



Chris R. Ryan, M.S.C.E., P.E.
Geotechnical Engineer



Richard J. Y. Tseng, Ph.D., P.E.
Vice President
Chief Geotechnical Engineer

CRR/RJYT/ccs
1-Addressee
3-File



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Attachment A

Client: LJB Inc.
 Project: Retaining Wall Rehabilitation Project,
 Union Road, Monroe, Ohio

Date: April 17, 2014
 Quotation No. 14-2771-056

Field Work			
Work Scope Description	Unit	Quantity	
Number of Borings (Set up)	Each	2	
Total Feet of Boring	Feet	100	
Standard Penetration Test	Each	24	
Shelby Tube	Each	0	
Stake Borings & Elevations	Lump Sum	1	
Mobilization	Lump Sum	1	
NW Rock Core	Feet	0	
Traffic Control	Man-Hour	4	
Clear Utilities	Hour	1	
Other		0	
Laboratory Analysis			
Moisture Content Determination	Each	12	
Unified Classification Test	Each	0	
Atterberg Limits Test Only	Each Set	2	
Unconfined Compression Test	Each	0	
Consolidation Test	Each	0	
Proctor Test	Each	0	
CBR Test	Each	0	
Other		0	
Engineering Services			
Soil Report	Lump Sum	1	
Extra Work Units:			
Chief Engineer	Hour		
Senior Engineer II	Hour		
Engineer I	Hour		
Technical Writer	Hour		
Drafter	Hour		
Word Processor	Hour		
Subtotals			
	TOTAL		\$4,990.00



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