

## **ORDINANCE NO. 22-020**

**AN ORDINANCE AUTHORIZING AND DIRECTING THE CITY MANAGER TO ENTER INTO AN AGREEMENT FOR PROFESSIONAL DESIGN SERVICES WITH MOTT MACDONALD, LLC OF CLEVELAND, OHIO, FOR THE WEST MONROE STREET RESURFACING PROJECT; AND DECLARING THAT THIS ORDINANCE SHALL TAKE IMMEDIATE EFFECT IN ACCORDANCE WITH SECTION 14 OF THE CITY CHARTER.**

**WHEREAS**, the City Commission approved and authorized the submission of an application to the Erie Regional Planning Commission, Metropolitan Planning Organization and an LPA Federal Project Agreement between the City and the Ohio Department of Transportation (ODOT) for the proposed West Monroe Street Resurfacing Project by Resolution No. 010-20R, passed on March 23, 2020; and

**WHEREAS**, the West Monroe Street Resurfacing Project consists of separating the combined sewer running down West Monroe Street, between Broadway and Camp Streets, and with any large utility replacement project large portions of the roadway will be removed, seeing that the current condition of the roadway is in less than fair condition containing several defects and portions that have been rooted out, the entire length of roadway along the project limits will be resurfaced, with only full depth replacement being seen at the area that has completely rutted out (lanes at W. Monroe Street / Tiffin Avenue and W. Monroe Street / Camp Street); and

**WHEREAS**, a Request for Qualifications (RFQ) was issued for the West Monroe Street Resurfacing Project in which eleven (11) submittals were received, evaluated and ranked by a selection committee and based upon the firm's expertise, professional knowledge and past experience and success with similar projects, it was determined Mott MacDonald, LLC, was the most qualified; and

**WHEREAS**, Mott MacDonald, LLC, will be providing professional design services for the West Monroe Street Resurfacing Project and is more fully described in the Scope of Services, which is attached to this Ordinance and marked Exhibit "A" and specifically incorporated herein; and

**WHEREAS**, the total cost of the professional design services is \$150,500.00 of which \$40,817.60 will be paid with Federal Highway Administration (FHWA) funds through the Ohio Department of Transportation (ODOT) and the Erie County Metropolitan Planning Organization (MPO) and the remaining balance of \$109,682.40 will be paid with Storm Water Funds in the amount of \$80,066.00 and Capital Street Funds in the amount of \$29,616.40; and

**WHEREAS**, this Ordinance should be passed as an emergency measure under suspension of the rules in accordance with Section 14 of the City Charter in order to immediately proceed with the design work in order to keep the project on track for ODOT design milestones; and

**WHEREAS**, in that it is deemed necessary in order to provide for the immediate preservation of the public peace, property, health, and safety of the City of Sandusky, Ohio, and its citizens, and to provide for the efficient daily operation of the Municipal Departments, including the Department of Public Works, of the City of Sandusky, Ohio, the City Commission of the City of Sandusky, Ohio finds that an emergency exists regarding the aforesaid, and that it is advisable that this **Ordinance** be declared an emergency measure which will take immediate effect in accordance with Section 14 of the City Charter upon its adoption; and NOW, THEREFORE, BE IT

**PAGE 2 - ORDINANCE NO. 22-020**

ORDAINED BY THE CITY COMMISSION OF THE CITY OF SANDUSKY, OHIO, THAT:

Section 1. The City Manager is authorized and directed to enter into an Agreement with Mott MacDonald, LLC, of Cleveland, Ohio, for Professional Design Services for the West Monroe Resurfacing Project (ERI-CR500-01.37, PID 113957), substantially in the same form as attached to this Ordinance, marked Exhibit "1", and specifically incorporated as if fully rewritten herein, together with any revisions or additions as are approved by the Law Director as not being substantially adverse to the City and consistent with carrying out the terms of this Ordinance, at an amount **not to exceed** One Hundred Fifty Thousand Five Hundred and 00/100 Dollars (\$150,500.00).

Section 2. If any section, phrase, sentence, or portion of this Ordinance is for any reason held invalid or unconstitutional by any Court of competent jurisdiction, such portion shall be deemed a separate, distinct, and independent provision, and such holding shall not affect the validity of the remaining portions thereof.

Section 3. This City Commission finds and determines that all formal actions of this City Commission concerning and relating to the passage of this Ordinance were taken in an open meeting of this City Commission and that all deliberations of this City Commission and of any of its committees that resulted in those formal actions were in meetings open to the public in compliance with the law.

Section 4. That for the reasons set forth in the preamble hereto, this Ordinance is hereby declared to be an emergency measure which shall take immediate effect in accordance with Section 14 of the City Charter after its adoption and due authentication by the President and the Clerk of the City Commission of the City of Sandusky, Ohio.



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RICHARD R. BRADY  
PRESIDENT OF THE CITY COMMISSION



ATTEST:

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CATHLEEN A. MYERS  
CLERK OF THE CITY COMMISSION

Passed: February 14, 2022

CITY OF Sandusky  
AGREEMENT NO. 37373

This Agreement No. 37373 entered into this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, by and between the City of Sandusky, hereinafter referred to as the City and Mott MacDonald, hereinafter referred to as the Consultant, with an office located at 18013 Cleveland Parkway Drive, Suite 200, Cleveland, OH 33135.

WITNESSETH:

That the City and the Consultant, for the mutual considerations herein contained and specified, have agreed and do hereby agree as follows:

CLAUSE I - WORK DESCRIPTION

The Consultant agrees to design the improvements required to rehabilitate CR 500 (West Monroe St) from Camp St to Broadway St, as may be authorized by the City for in Erie County, Ohio, identified as ERI-CR 500-1.37.

CLAUSE II - INVOICE & PROJECT SCHEDULE

The City and the Consultant agree to the attached Invoice & Project Schedule including the overall Agreement length, and Scheduled Submittal dates and Review Times set out in the Project Schedule.

The Consultant agrees to submit the completed Invoice & Project Schedule transmittal letter together with the updated Invoice & Project Schedule for all billing purposes for all Parts of this Agreement every thirty (30) days as follows:

- (a) Signed original transmittal letter and invoice (IPS) and three (3) copies of same.

CLAUSE III - PRIME COMPENSATION

The City agrees to compensate the Consultant for the performance of the Work specified in this Agreement as follows:

Part 1: Preliminary Engineering Phase

Lump sum compensation of ninety-nine thousand, nine hundred and sixty-six dollars (\$99,966).

Part 2: Environmental Engineering Phase

Lump sum compensation of thirty thousand, seven hundred and sixty-two dollars (\$30,762).

### Part 3: Final Engineering Phase

Lump sum compensation of nineteen thousand, seven hundred seventy-two dollars (\$19,772).

### If Authorized: Preliminary Engineering Phase

Lump sum compensation of one thousand, four hundred and ninety-five dollars (\$1,495).

### If Authorized: Environmental Engineering Phase

Lump sum compensation of twelve thousand, one hundred and sixty-two dollars (\$12,162).

### If Authorized: Final Engineering Phase

Lump sum compensation of two thousand, one hundred and seven dollars (\$2,107).

Prime Compensations, only as agreed and by proper modification of this Agreement and authorized in writing by the City, may be added to or subtracted from under the authority of the Department of Transportation's "Specifications for Consulting Services, 2016 Edition".

### EXHIBIT "1" CLAUSE IV - INCORPORATION BY REFERENCE

The following documents, or specified portions thereof, are hereby incorporated into and made a part of this Agreement as though expressly rewritten herein:

- (a) The Department of Transportation's "Specifications for Consulting Services, 2016 Edition".
- (b) The attached Scope of Services.
- (c) The Invoice & Project Schedule.
- (d) The most current Office of Budget and Management Travel Policy as published on the State of Ohio Website (<https://budget.ohio.gov/TravelRule>).

### CLAUSE V - GENERAL PROVISIONS

Any person executing this Agreement in a representative capacity hereby warrants that he/she has been duly authorized by his/her principal to execute this Agreement on such principal's behalf.

Additionally, it is expressly understood by the parties that none of the rights, duties and obligations described in this Agreement shall be binding on either party until such time as the expenditure of funds is certified by the Director of Budget and Management, pursuant to Section 126.07 of the Ohio Revised Code.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed as of the day and year first above written by affixing the signature of the duly authorized officer of Consultant and the signature of the Public Works Director.

Mott MacDonald

By: \_\_\_\_\_

Title: \_\_\_\_\_

City of Sandusky

\_\_\_\_\_

Public Works Director

[option DELETE 1 NOT USED]

\*\*\*COUNTY  
BOARD OF COMMISSIONERS

EXHIBIT "1"

\_\_\_\_\_  
Commissioner

\_\_\_\_\_  
Commissioner

\_\_\_\_\_  
Commissioner

APPROVED AS TO FORM:

By: \_\_\_\_\_

Title: \_\_\_\_\_

# OHIO DEPARTMENT OF TRANSPORTATION

## INTER-OFFICE COMMUNICATION

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To: Alana Haberman, Administrator, Office of Payroll & Project Accounting, ATTN: Doug Banks

From:

Date:

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Re: **Construction** Encumbrance Request for  
LPA Local Let Agreement No. \*\*\*\*\*  
CRS  
PID No.  
State Job No.  
Federal Project No.  
Construction Inspection

New: \_\_\_X\_\_\_

Vendor Name: \*\*\* Name of Local [OPTION Name of Consultant DIRECT PAY CERT ATTACH]

Vendor Address: \*\*\* Invoicing Address

\*\*\* Invoicing Address

OAKS No. \*\*\*\*\* 10 digit number for Local or Consultant

Add Code: \*\*\* 3 digit address code from accounting system for Local or Consultant

Completion Date: \*\*/\*\*/\*\* estimated Award date

Controlling Board No.:

**NOT REQUIRED ON LOCAL AGREEMENTS**

Object Code: 572011

**Encumbrance Request** Name: \*\*\*

**Funding Event** Name: \*\*\*

Amount to be Encumbered: \$\*\*\*.00 (\*% of \$.00 - Federal funds)

Audit Code \_\_\_\_\_

Program Manager Approval: \_\_\_\_\_  
Signature/Date

\*\*\*.\*\*\*

c: File

[date]

\*\*\* [NAME of Local Contractual Officer with Title i. e. County Engineer, The Honorable \*\* for Mayor]

\*\*\* [Local Entity i. e. Lucas County or City of Elyria]

\*\*\* [Local Address]

\*\*\* [Local Address]

Re: Proposed Consultant Agreement No. \*\*\*\*\*

\*\*\* [CRS]

PID No. \*\*\*\*\*

Federal Project No. E\*\*\*(\*\*\*)

\*\*\*\* [Name of consulting firm], Consultant

Dear Mr. \*\*\*: [use Mayor as title instead of Mr when applicable]

Transmitted herewith is an Agreement between the \*\*\*\* [Village/City/County/TID as applicable] and the Consultant for Construction Inspection of short work description for signature of consultant and signature/execution by the \*\*\*\* [VILLAGE/CITY/COUNTY/TID as applicable].

Please return to the District:

- 1) copy of executed Consultant Agreement No. \*\*\*\*\*,
- 2) copy of the \*\*\*\*'s [Village/City/County/TID as applicable] letter of authorization.

The Invoice & Progress Schedule will be provided by the District after receipt of the documents.

The Consultant shall not be authorized to proceed prior to the Award date of the construction contract. Any costs incurred prior to the Award date will not be compensable.

Respectfully,

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\*\*\*.\*\*\*

Enclosure

c: Project File

# **OHIO DEPARTMENT OF TRANSPORTATION INTER-OFFICE COMMUNICATION**

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To: Andrea Stevenson, Office of Local Programs

From:

Date:

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Re: **LPA Local Let Agreement No. \*\*\*\*\***  
Consultant Agreement No. \*\*\*\*\*  
\*\*\* [CRS]  
PID No. \*\*\*\*\*  
Federal Project No. E\*\*\*(\*\*\*)  
\*\*\* [Name of consulting firm], Consultant

Enclosed is a copy of the executed LPA Local Let Agreement and the Consultant Agreement with IPS for the subject project.

Adequate funds have been encumbered for this project under Encumbrance No. \*\*\*\*\*.

\*\*\*.\*\*\*

# EXHIBIT "A"

c: Project File





Joshua R. Snyder, Public Works Engineer  
City of Sandusky  
240 Columbus Avenue  
Sandusky, OH 44870

ERI-CR500-01.37, PID no. 113957 – Revised Scope and Fee

January 14, 2022

Dear Mr. Snyder:

As a follow-up to the Scope-of-Services meeting on December 17, 2021 and your comments on January 10, 2022, Mott MacDonald has prepared the ensuing Scope of Services for your review and consideration.

18013 Cleveland Parkway  
Drive  
Suite 200  
Cleveland OH 44135  
United States of America

T +1 (216) 535 3640  
F +1 (216) 265 2816  
[www.mottmac.com/americas](http://www.mottmac.com/americas)

## PROJECT DESCRIPTION

The basis for the project is to design the improvements in order to rehabilitate CR500 (West Monroe Street) from Camp Street to Broadway Street, a distance of about 0.5 miles in the City of Sandusky. This project will include resurfacing, installation of a new storm sewer, and curb, sidewalk, drive, curb ramp and pavement replacement as necessary. See Fee Narrative for additional task details.

## SCHEDULE

Mott MacDonald will complete these services in accordance with the proposed schedule, below.

Milestone	Proposed Date	Original Date in RFQ
Notice to Proceed	March 1, 2022	February 1, 2022
Survey Complete	May 1, 2022	
Stage 1 Submission	N/A	May 1, 2022
Stage 1 Approval	N/A	June 1, 2022
Stage 1 / 2 Submission	November 1, 2022	November 1, 2022
Stage 1 / 2 Approval	December 1, 2022	December 1, 2022
Stage 3 Submission	April 1, 2023	
Stage 3 Approval	May 1, 2023	
PS&E Package to D3	August 15, 2024	August 15, 2024

## STAFFING

We have proposed Scott Piazza, PE as Project Manager for this project. Scott will serve as your primary contact, and primary contact with all outside agencies, and will lead the design. Chris Preto, PE will serve as Project Principal and QA/QC for this project.



## EXCLUSIONS

1. If pre-bid services are desired, these will be negotiated at a later date.
2. If on-going services during construction are desired, these will be negotiated at a later date.

## COMPENSATION

This proposal is developed following ODOT's Consultant Fee Estimation Guidance, April 2021. Mott MacDonald will provide the base services outlined herein for a cost plus not to exceed fee of \$150,500. Mott MacDonald will provide the if-authorized services outlined herein for a cost plus not to exceed fee of \$15,763. The grand total of these services is \$166,264.

These services will be invoiced monthly. Mott MacDonald will begin promptly upon receiving written authorization to proceed.

If you have any questions regarding the scope and fee, please feel free to contact me. Mott MacDonald appreciates this opportunity to assist the City of Sandusky.

Respectfully,  
Mott MacDonald, LLC

A handwritten signature in blue ink that reads 'Chris Preto'.

Chris Preto, PE, ENV SP, LEED AP  
Principal Project Manager / Sr. Associate  
T (216) 535-3647  
C (513) 290-3468

[chris.preto@mottmac.com](mailto:chris.preto@mottmac.com)

EXHIBIT "A"

# Appendix A

## Scope of Services

### Documents

# EXHIBIT "A"

<b>C-R-S</b>	<b>ERI-CR500-01.37</b>						
<b>Consultant:</b>	Mott MacDonald						
<b>Agreement No.</b>	TBD						
<b>Modification No.</b>	0						
<b>PID No.</b>	113957						
<b>Proposal Date</b>	1/14/2022						
<b>Task Description</b>		<b>Task Needed</b>	<b>Consultant</b>	<b>ODOT</b>	<b>LPA</b>	<b>If-Authorized</b>	<b>Narrative</b>
<b>2 - Preliminary Engineering Phase</b>							
<b>2.1 - Develop Preliminary Alternatives</b>							
<b>2.1.A -Prepare and Complete Feasibility Study Report</b>							
2.1.A.G - Preliminary Alignment and Profile		X			X		City to conduct analysis of possible storm sewer location, determine location of storm sewer and provide location to Mott MacDonald.
<b>2.2 - Perform Environmental Field Studies</b>							
2.2.B - Cultural Resources Scoping Request From		X	X				Assume 1 hour to review and coordinate Lawhon's work.
2.2.C - Ecological Survey Report		X	X				Assume 1 hour to review and coordinate Lawhon's work.
2.2.D - Regulated Materials Review Screening Form		X	X				Assume 1 hour to review and coordinate Lawhon's work.
<b>2.3 - AER Design</b>							
<b>2.3.A - Field Survey and Aerial Mapping</b>							
2.3.A.C.1 - No R/W Project		X	X				Assume 2 hours travel to field verify survey with senior roadway engineer and junior roadway engineer = 4 hours. Assume 4 hours field work = 8 hours. Assume 4 hours office work. 16 hours per visit. Assume 1 visit to field verify survey and assess curb, curb ramp and drive repairs. Assume 2 hours coordination. 18 total hours.
2.3.A.G - Property Owner Notification		X			X		Assume 77 property owners. Letters to be provided by the City and sent to Mott MacDonald.
<b>2.3.C - Drainage</b>							
2.3.C.E - Conceptual BMP		X	X				Assume low complexity. 0.25 hours per station per ODOT fee guidance. Assume 2600 feet = 26 stations * 0.25 hours = 6.5 hours.
<b>2.6 - Public Involvement/Coordination</b>							
2.6.A - Public Involvement / Coordination		X			X		City to lead public involvement efforts.
<b>2.7 - Stage 1 Design</b>							
<b>2.7.A - Roadway</b>							
2.7.A.A - Title Sheet		X	X				Assume low complexity. 8 hours per sheet per ODOT fee guidance.
2.7.A.B - Schematic Plan		X	X				Assume low complexity. 20 hours per sheet per ODOT fee guidance.
2.7.A.C - General Notes		X	X				Assume low complexity. 4 hours per sheet per ODOT fee guidance.
2.7.A.D - Typical Sections		X	X				Assume less than low complexity. 5 hours per section. Assume 2 existing sections (normal and left turn lane) and 3 proposed sections (resurfacing, full depth, left turn lane). 5 sections total. Assume 5 sections will fit onto 2 sheets. 6 hours * 5 sections = 25 hours.
2.7.A.E - Cross Sections		X	X				Assume low complexity. 2 hours per section per ODOT fee guidance. Assume 400 feet / 50 ft section = 8 sections. Assume 4 sections/sheet = 2 sheets. 8 sections * 2 hours/section = 16 hours.
2.7.A.F - Plan and Profile - Mainline		X	X				Assume low complexity. 24 hours per sheet per ODOT fee guidance. Assume 2600 feet / 500 ft sheet = 6 sheets. 24 hours * 6 sheets = 144 hours.
2.7.A.J - Intersection Details		X	X				Assume low complexity. 12 hours per intersection per ODOT fee guidance. Assume intersection details for Tiffin and Camp. 12 hours * 2 intersections = 24 hours.
2.7.A.L - Driveway Details		X	X				Assume very low complexity. 2 hours per drive. Assume 16 drives need reconstructed. 16 drives * 2 hours = 32 hours.
2.7.A.N - Traffic Control		X	X				Assume very low complexity. Assume 4 hours. Assume 2600 feet / 500 ft sheet = 6 sheets. 4 hours * 6 sheets = 24 hours.
<b>2.7.B - Drainage</b>							
2.7.B.A - Storm Sewer Profiles		X	X				Assume low complexity. 0.5 hours per station per ODOT fee guidance. Assume 2600 feet = 26 stations * 0.5 hours = 13 hours. Assume 2 sheets.
2.7.B.D.3 - Storm Sewer		X	X				Assume low complexity. 0.25 hours per station per ODOT fee guidance. Assume 2600 feet = 26 stations * 0.25 hours = 6.5 hours.
2.7.B.E - BMP Design		X	X			X	Assume low complexity. 0.5 hours per station per ODOT fee guidance. Assume 2600 feet = 26 stations * 0.5 hours = 13 hours. Assume 1 sheet.
<b>2.7.C - Utilities</b>							
2.7.C.A - Utility Coordination and Documentation		X	X				Assume low complexity. 8 hours per project per ODOT fee guidance.
<b>2.7.D - Geotechnical Services</b>							
2.7.D.A - Geotechnical Services and Report		X	X				Assume 4 hours to review and coordinate.
<b>2.7.G - Miscellaneous</b>							
2.7.G.C - Finalize Pavement Build up and subsurface drainage requirements		X			X		City will provide full depth pavement design to Mott MacDonald.
<b>2.7.H - Prepare C2 Cost Estimates and Update Milestones</b>							
2.7.H.A - Roadway/Interchange Costs		X	X				Assume low complexity. 24 hours per project per ODOT fee guidance.
<b>2.7.J - Maintenance of Traffic</b>							
2.7.J.A - Detour Plan		X	X				Assume low complexity. 8 hours per detour per ODOT fee guidance. Assume 1 detour.
<b>2.8 - Project Management for Preliminary Engineering Phase</b>							
2.8.A - Meetings		X	X				Assume low complexity. Assume 1 meeting with 2 attendees. Assume virtual meeting. Assume 2 hour meeting. Assume 1 hour for meeting agenda and 1 hour for meeting minutes. 2 hours * 2 attendees = 4 hours + 2 hours for agenda and minutes = 6 hours.
2.8.B - General Oversight		X	X				Assume very low complexity. Assume 4 hours per month. Assume 7 months (March, April, May, June, July, August) for Stage 1. 4 hours * 7 months = 28 hours.
<b>3 - Stage 2 Detailed Design Phase</b>							
<b>3.1 - Environmental Field Studies and Refined Impacts</b>							
3.1.A - Phase I Cultural Archaeological		X	X			X	Assume 1 hour to review and coordinate Lawhon's work.
<b>3.3 - Stage2</b>							
<b>3.3.A - Roadway</b>							
3.3.A.A - Title Sheet		X	X				Assume low complexity. 4 hours per sheet per ODOT fee guidance.
3.3.A.B - Schematic		X	X				Assume low complexity. 4 hours per sheet per ODOT fee guidance.
3.3.A.C - General Notes		X	X				Assume low complexity. 8 hours per sheet per ODOT fee guidance. Assume 3 sheets. 8 hours * 3 sheets = 24 hours.

<b>C-R-S</b>	<b>ERI-CR500-01.37</b>					
<b>Consultant:</b>	Mott MacDonald					
<b>Agreement No.</b>	TBD					
<b>Modification No.</b>	0					
<b>PID No.</b>	113957					
<b>Proposal Date</b>	1/14/2022					
<b>Task Description</b>		<b>Task Needed</b>	<b>Consultant</b>	<b>ODOT</b>	<b>LPA</b>	<b>If-Authorized</b>
						<b>Narrative</b>
3.3.A.D - Typical Sections		X	X			Assume low complexity. 2 hours per section per ODOT fee guidance. Assume 2 existing sections (normal and left turn lane) and 3 proposed sections (resurfacing, full depth, left turn lane). 5 sections total. Assume 5 sections will fit onto 2 sheets. 2 hours * 5 sections = 10 hours.
3.3.A.E- Plan and Profile - Mainline		X	X			Assume low complexity. 8 hours per sheet per ODOT fee guidance. Assume 2600 feet / 500 ft sheet = 6 sheets. 8 hours * 6 sheets = 48 hours.
3.3.A.H - Cross Sections		X	X			Assume low complexity. 1 hours per section per ODOT fee guidance. Assume 400 feet / 50 ft section = 8 sections. Assume 4 sections/sheet = 2 sheets. 8 sections * 1 hours/section = 8 hours.
3.3.A.I - Intersection Details		X	X			Assume low complexity. 12 hours per intersection per ODOT fee guidance. Assume intersection details for Tiffin and Camp. 12 hours * 2 intersections = 24 hours.
3.3.B - Drainage						
3.3.B.A - Storm Sewer Profiles		X	X			Assume low complexity. 0.25 hours per station per ODOT fee guidance. Assume 2600 feet = 26 stations * 0.25 hours = 6.5 hours.
3.3.B.D - Underdrain details		X	X			Assume low complexity. 0.25 hours per station per ODOT fee guidance. Assume 2600 feet = 26 stations * 0.25 hours = 6.5 hours.
3.3.B.E - BMP details		X	X			Assume low complexity. 0.25 hours per station per ODOT fee guidance. Assume 2600 feet = 26 stations * 0.25 hours = 6.5 hours.
3.3.C - Traffic Control					X	
3.3.C.A - Pavement Marking Plan		X	X			Assume very low complexity. Assume 4 hours per sheet. Assume 2600 feet / 500 ft sheet = 6 sheets. 4 hours * 6 sheets = 24 hours.
3.3.E - Maintenance of Traffic						
3.3.E.A - MOT General Notes		X	X			Assume low complexity. 4 hours per sheet per ODOT fee guidance. Assume 2 sheets. 4 hours * 2 sheets = 8 hours.
3.3.E.E - MOT Typical Sections		X	X			Assume low complexity. 2 hours per typical per ODOT fee guidance. Assume 2 typical. Assume 1 sheet. 2 hours * 2 typical = 4 hours.
3.3.J - Utilities						
3.3.J.A - Utility Coordination and Documentation		X	X			Assume low complexity. 8 hours per project per ODOT fee guidance.
3.5 - Prepare Environmental Document						
3.5.A - Prepare Environmental Document		X	X			Assume 1 hour to review and coordinate.
3.6 - Environmental Commitments and Plan Notes						
3.6.A - Environmental Commitment Plan Notes		X	X			Assume 2 hours to add environmental commitment plan notes.
3.8 - Prepare Cost Estimates and Revise Milestone						
3.9 - Project Management for Environmental Engineering Phase						
3.9.B - General Oversight		X	X			Assume very low complexity. Assume 4 hours per month per ODOT fee guidance. Assume 4 months (September, October, November, December) for Stage 2. 4 hours * 4 months = 16 hours.
<b>4 - Final Engineering and R/W Phase</b>						
<b>4.2 - Stage 3 Detailed Design Plans</b>						
4.2.A - Quantities and Notes						
4.2.A.A - Pavement Subsummary		X	X			Assume low complexity. 12 hours per sheet per ODOT fee guidance.
4.2.A.B - Drainage Subsummary		X	X			Assume low complexity. 8 hours per sheet per ODOT fee guidance.
4.2.A.C - Roadway Subsummary		X	X			Assume low complexity. 18 hours per sheet per ODOT fee guidance.
4.2.A.E - Maintenance of Traffic Subsummary		X	X			Assume low complexity. 0.5 hours per sheet per ODOT fee guidance. Assume 6 sheets. 0.5 * 6 = 3 hours.
4.2.A.F - Pavement Marking Subsummary		X	X			Assume low complexity. 17 hours per sheet per ODOT fee guidance.
4.2.A.M - General Summary Sheet		X	X			Assume low complexity. 18 hours per sheet per ODOT fee guidance. Assume 2 sheets. 18 hours * 3 sheets = 54 hours.
4.2.A.P - General Notes		X	X			Assume low complexity. 4 hours per sheet per ODOT fee guidance. Assume 3 sheets. 4 hours * 3 sheets = 12 hours.
4.2.A.Q - Driveway Subsummary or Driveway Details (if included on same sheet)		X	X			Assume low complexity. 0.5 hours / sheet + 8 hours for base subsummary sheet per ODOT fee guidance. Assume 1 sheets. 8.5 hours.
4.2.D - Miscellaneous						
4.2.D.C - Project Site Plan		X	X			X Assume 18 hours.
4.2.D.F - Miscellaneous Details		X	X			Assume 16 City standard details to be included on plans sheets. Assume 4 details/sheet. Assume 4 sheets. Assume 1 hour per detail. Assume 16 hours.
<b>4.3 - Prepare Cost Estimates and Revise Milestone</b>						
4.3.A - Roadway/Interchange Costs		X	X			Assume very low complexity. 10 hours per project per ODOT fee guidance.
<b>4.4 - Final Plan Package</b>						
4.4.A - Submission of Final Tracings and Documentation		X	X			Assume low complexity. 0.25 hours per sheet per ODOT fee guidance. Assume 44 sheets. 44 * 0.25 = 11 hours.
<b>4.5 - Project Management for Final Engineering and Right of Way Phase</b>						
4.5.A - Meetings		X	X			Assume low complexity. Assume 1 meeting with 2 attendees. Assume virtual meeting. Assume 2 hour meeting. Assume 1 hour for meeting agenda and 1 hour for meeting minutes. 2 hours * 2 attendees = 4 hours + 2 hours for agenda and minutes = 6 hours.
4.5.B - General Oversight		X	X			Assume very low complexity. 3-5 hours per month per ODOT fee guidance. Assume 4 months (January, February, March, April) for Stage 3. 2 hours * 4 months = 8 hours.

## SUMMARY OF STEPS

## SUMMARY OF STEPS

**C-R-S**                      **ERI-CR500-01.37**  
**Consultant:** Mott MacDonald  
**Agreement No.** TBD  
**Modification No.** 0  
**PID No.** 113957  
**Proposal Date** 1/14/2022

Average Hourly Rate	Total Hours	Labor Costs	Overhead Costs	Cost of Money	Direct Costs	Subcon Costs	Net Fee	Total Cost
<b>AUTHORIZED TASKS:</b>								
Planning Phase								
\$0.00	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Preliminary Engineering Phase								
\$0.00	422	\$18,309	\$29,726	\$31	\$275	\$46,456	\$5,169	\$99,966
Environmental Engineering Phase								
\$0.00	199	\$8,599	\$13,961	\$15	\$124	\$5,635	\$2,428	\$30,762
Final Engineering Phase								
\$0.00	156.5	\$6,753	\$10,965	\$11	\$136	\$0	\$1,907	\$19,772
Construction Engineering Phase								
\$0.00	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>TOTAL AUTHORIZED TASKS</b>								
<b>\$0.00</b>	<b>777.5</b>	<b>\$33,661</b>	<b>\$54,652</b>	<b>\$57</b>	<b>\$535</b>	<b>\$52,091</b>	<b>\$9,504</b>	<b>\$150,500</b>
<b>IF-AUTHORIZED TASKS:</b>								
Planning Phase								
Preliminary Engineering Phase								
	13	\$514	\$835	\$1	\$0	\$0	\$145	\$1,495
Stage 2 Detailed Design Phase								
	7.5	\$316	\$513	\$1	\$0	\$11,244	\$89	\$12,162
Final Engineering Phase								
	18	\$725	\$1,176	\$1	\$0	\$0	\$205	\$2,107
Construction Engineering Phase								
<b>TOTAL IF-AUTHORIZED TASKS</b>								
	<b>38.5</b>	<b>\$1,554</b>	<b>\$2,523</b>	<b>\$3</b>	<b>\$0</b>	<b>\$11,244</b>	<b>\$439</b>	<b>\$15,763</b>
<b>GRAND TOTAL</b>	<b>816</b>	<b>\$35,215</b>	<b>\$57,175</b>	<b>\$60</b>	<b>\$535</b>	<b>\$63,335</b>	<b>\$9,943</b>	<b>\$166,264</b>

<b>C-R-S</b>	<b>ERI-CR500-01.37</b>	<b>PROPOSAL LABOR SUMMARY</b>									Version: Sept 2021	
<b>Consultant:</b>	Mott MacDonald											
<b>Agreement No.</b>	TBD											
<b>Modification No.</b>												
<b>PID No.</b>	113957											
<b>Proposal Date</b>	1/14/2022											
		<b>No. of Units</b>	<b>Transportation Director</b>	<b>Project Principal</b>	<b>Project Manager/Sr. Roadway Engineer</b>	<b>Junior Roadway Engineer</b>	<b>Senior Traffic Engineer</b>	<b>Junior Traffic Engineer</b>	<b>Technician</b>	<b>Admin.</b>	<b>Total</b>	
<b>Task Description</b>			\$90.50	\$72.25	\$58.75	\$31.00	\$63.25	\$38.25	\$43.00	\$35.50	<b>Hours</b>	<b>Cost</b>
<b>AUTHORIZED TASKS:</b>												
<b>2 - Preliminary Engineering Phase</b>												
<b>2.1 - Develop Preliminary Alternatives</b>												
2.1.A - Prepare and Complete Feasibility Study Report												
2.1.A.G - Preliminary Alignment and Profile												
<b>TOTAL 2.1 - Develop Preliminary Alternatives</b>												
		0	0	0	0	0	0	0	0	0	0	\$0
<b>2.2 - Perform Environmental Field Studies</b>												
2.2.B - Cultural Resources Scoping Request Form												
2.2.C - Ecological Survey Report												
2.2.D - Regulated Materials Review Screening Form												
<b>TOTAL 2.2 - Perform Environmental Field Studies</b>												
		3	0	0	3	0	0	0	0	0	3	\$176
<b>2.3 - AER Design</b>												
2.3.A - Field Survey and Aerial Mapping												
2.3.A.C - Base Mapping (incl. field verify.)												
2.3.A.C.1 - No R/W Project												
2.3.A.G - Property Owner Notification												
2.3.C - Drainage												
2.3.C.E - Conceptual BMP												
<b>TOTAL 2.3 - AER Design</b>												
		2	0	1	12	11.5	0	0	0	0	24.5	\$1,134
<b>2.6 - Public Involvement/Coordination</b>												
2.6.A - Public Involvement / Coordination												
<b>TOTAL 2.6 - Public Involvement/Coordination</b>												
		1	0	0	0	0	0	0	0	0	0	\$0
<b>2.7 - Stage 1 Design</b>												
2.7.A - Roadway												
2.7.A.A - Title Sheet												
2.7.A.B - Schematic Plan												
2.7.A.C - General Notes												
2.7.A.D - Typical Sections												
2.7.A.E - Cross Sections												
2.7.A.F - Plan and Profile - Mainline												
2.7.A.J - Intersection Details												
2.7.A.L - Driveway Details												
2.7.A.N - Traffic Control												
2.7.B - Drainage												
2.7.B.A - Storm Sewer Profiles												
2.7.B.D - Drainage Calculations												
2.7.B.D.3 - Storm Sewer												
2.7.B.E - BMP Design												
2.7.C - Utilities												

<b>C-R-S</b>	<b>ERI-CR500-01.37</b>	<b>PROPOSAL LABOR SUMMARY</b>										Version: Sept 2021
<b>Consultant:</b>	Mott MacDonald											
<b>Agreement No.</b>	TBD											
<b>Modification No.</b>												
<b>PID No.</b>	113957											
<b>Proposal Date</b>	1/14/2022											
		<b>No. of Units</b>	<b>Transportation Director</b>	<b>Project Principal</b>	<b>Project Manager/Sr. Roadway Engineer</b>	<b>Junior Roadway Engineer</b>	<b>Senior Traffic Engineer</b>	<b>Junior Traffic Engineer</b>	<b>Technician</b>	<b>Admin.</b>	<b>Total</b>	
<b>Task Description</b>											<b>Hours</b>	<b>Cost</b>
2.7.C.A - Utility Coordination and Documentation	1		\$90.50	\$72.25	\$58.75 8	\$31.00	\$63.25	\$38.25	\$43.00	\$35.50	8	\$470
2.7.D - Geotechnical Services												
2.7.D.A - Geotechnical Services and Report	1				4						4	\$235
2.7.G - Miscellaneous												
2.7.G.C - Finalize Pavement Build up and subsurface drainage requirements											0	\$0
2.7.H - Prepare C2 Cost Estimates and Update Milestones												
2.7.H.A - Roadway/Interchange Costs	1			1	8	15					24	\$1,007
2.7.J - Maintenance of Traffic												
2.7.J.A - Detour Plan	1				3	5					8	\$331
<b>TOTAL - 2.7 - Stage 1 Design</b>	<b>32</b>	<b>0</b>	<b>7</b>	<b>126</b>	<b>227.5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>360.5</b>	<b>\$14,961</b>
<b>2.8 - Project Management for Preliminary Engineering Phase</b>												
2.8.A - Meetings	1				6						6	\$353
2.8.B - General Oversight	1			3	25						28	\$1,686
<b>TOTAL 2.8 - Project Management for Preliminary Engineering Phase</b>	<b>3</b>	<b>0</b>	<b>3</b>	<b>31</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>34</b>	<b>\$2,038</b>
<b>Total - 2 Preliminary Engineering Phase</b>	<b>41</b>	<b>0</b>	<b>11</b>	<b>172</b>	<b>239</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>422</b>	<b>\$18,309</b>
<b>3 - Stage 2 Detailed Design</b>												
<b>3.3 - Stage2</b>												
<b>3.3.A - Roadway</b>												
3.3.A.A - Title Sheet	1				1	3					4	\$152
3.3.A.B - Schematic	1				1	3					4	\$152
3.3.A.C - General Notes	3				9	15					24	\$994
3.3.A.D - Typical Sections	2			1	3	6					10	\$435
3.3.A.E- Plan and Profile - Mainline	6			3	15	30					48	\$2,028
3.3.A.H - Cross Sections	2				3	5					8	\$331
3.3.A.I - Intersection Details	2				8	16					24	\$966
<b>3.3.B - Drainage</b>												
3.3.B.A - Storm Sewer Profiles	1				2	4.5					6.5	\$257
3.3.B.D - Underdrain details	1				2	4.5					6.5	\$257
3.3.B.E - BMP Details											0	\$0
<b>3.3.C - Traffic Control</b>												
3.3.C.A - Pavement Marking Plan	6				6	18					24	\$911
3.3.C.B - Signing Plan											0	\$0
<b>3.3.E - Maintenance of Traffic</b>												
3.3.E.A - MOT General Notes	2			1	2	5					8	\$345
3.3.E.E - MOT Typical Sections	1				1	3					4	\$152
3.3.E.F - MOT Plan Sheets											0	\$0
<b>3.3.J - Utilities</b>												
3.3.J.A - Utility Coordination and Documentation	1				8						8	\$470



<b>C-R-S</b>	<b>ERI-CR500-01.37</b>	<b>PROPOSAL LABOR SUMMARY</b>									Version: Sept 2021	
<b>Consultant:</b>	Mott MacDonald											
<b>Agreement No.</b>	TBD											
<b>Modification No.</b>												
<b>PID No.</b>	113957											
<b>Proposal Date</b>	1/14/2022											
		<b>No. of Units</b>	<b>Transportation Director</b>	<b>Project Principal</b>	<b>Project Manager/Sr. Roadway Engineer</b>	<b>Junior Roadway Engineer</b>	<b>Senior Traffic Engineer</b>	<b>Junior Traffic Engineer</b>	<b>Technician</b>	<b>Admin.</b>	<b>Total</b>	
<b>Task Description</b>			\$90.50	\$72.25	\$58.75	\$31.00	\$63.25	\$38.25	\$43.00	\$35.50	<b>Hours</b>	<b>Cost</b>
<b>TOTAL 3.3 - Stage2</b>	29	0	5	61	113	1	0	0	0	0	180	\$7,511
<b>3.5 - Prepare Environmental Document</b>												
3.5.A - Prepare Environmental Document	1			1							1	\$59
<b>TOTAL 3.5 - Prepare Environmental Document</b>	1	0	0	1	0	0	0	0	0	0	1	\$59
<b>3.6 - Environmental Commitments and Plan Notes</b>												
3.6.A - Environmental Commitment Plan Notes	1				2						2	\$62
<b>TOTAL 3.6 - Environmental Commitments and Plan Notes</b>	1	0	0	0	2	0	0	0	0	0	2	\$62
<b>3.8 - Prepare Cost Estimates and Revise Milestone</b>												
3.8.A - Roadway/Interchange Costs											0	\$0
<b>TOTAL 3.8 - Prepare Cost Estimates and Revise Milestone</b>	0	0	0	0	0	0	0	0	0	0	0	\$0
<b>3.9 - Project Management for Environmental Engineering Phase</b>												
3.9.A - Meetings											0	\$0
3.9.B - General Oversight	1		2	14							16	\$967
<b>TOTAL 3.9 - Project Management for Environmental Engineering Phase</b>	1	0	2	14	0	0	0	0	0	0	16	\$967
<b>Total - 3 Stage 2 Detailed Design Phase</b>	32	0	7	76	115	1	0	0	0	0	199	\$8,599
<b>4 - Final Engineering and R/W Phase</b>												
<b>4.2 - Stage 3 Detailed Design Plans</b>												
<b>4.2.A - Quantities and Notes</b>												
4.2.A.A - Pavement Subsummary	1			4	8						12	\$483
4.2.A.B - Drainage Subsummary	1			3	5						8	\$331
4.2.A.C - Roadway Subsummary	1			3	6						9	\$362
4.2.A.E - Maintenance of Traffic Subsummary	1			1	2						3	\$121
4.2.A.F - Pavement Marking Subsummary	1			2		5	10				17	\$816
4.2.A.M - General Summary Sheet	2		1	12	23						36	\$1,490
4.2.A.P - General Notes	3			4	8						12	\$483
4.2.A.Q - Driveway Subsummary or Driveway Details (if included on same sheet)	1			3	5.5						8.5	\$347
<b>4.2.D - Miscellaneous</b>												
4.2.D.F - Miscellaneous Details	4			4	12						16	\$607
<b>TOTAL 4.2 - Stage 3 Detailed Design Plans</b>	15	0	1	36	69.5	5	10	0	0	0	121.5	\$5,041
<b>4.3 - Prepare Cost Estimates and Revise Milestone</b>												
4.3.A - Roadway/Interchange Costs	1		1	3	6						10	\$435
<b>TOTAL 4.3 - Prepare Cost Estimates and Revise Milestone</b>	1	0	1	3	6	0	0	0	0	0	10	\$435

<b>C-R-S</b>	<b>ERI-CR500-01.37</b>	<b>PROPOSAL LABOR SUMMARY</b>									Version: Sept 2021	
<b>Consultant:</b>	Mott MacDonald											
<b>Agreement No.</b>	TBD											
<b>Modification No.</b>												
<b>PID No.</b>	113957											
<b>Proposal Date</b>	1/14/2022											
		<b>No. of Units</b>	<b>Transportation Director</b>	<b>Project Principal</b>	<b>Project Manager/Sr. Roadway Engineer</b>	<b>Junior Roadway Engineer</b>	<b>Senior Traffic Engineer</b>	<b>Junior Traffic Engineer</b>	<b>Technician</b>	<b>Admin.</b>	<b>Total</b>	
<b>Task Description</b>			\$90.50	\$72.25	\$58.75	\$31.00	\$63.25	\$38.25	\$43.00	\$35.50	<b>Hours</b>	<b>Cost</b>
<b>4.4 - Final Plan Package</b>												
4.4.A - Submission of Final Tracings and Documentation	44			1	3	7					11	\$466
<b>4.4 - Final Plan Package</b>	44	0	1	3	7	0	0	0	0	0	11	\$466
<b>4.5 - Project Management for Final Engineering and Right of Way Phase</b>												
4.5.A - Meetings	1			6							6	\$353
4.5.B - General Oversight	1		1	6						1	8	\$460
<b>TOTAL 4.5 - Project Management for Final Engineering and Right of Way Phase</b>	2	0	1	12	0	0	0	0	0	1	14	\$813
<b>4.6 - Pre-Bid Activities</b>												
4.6.A - Pre-Bid Questions											0	\$0
<b>TOTAL 4.6 - Pre-Bid Activities</b>	0	0	0	0	0	0	0	0	0	0	0	\$0
<b>4.7 - Limited Review</b>												
4.7.A - QA/QC for Limited Review											0	\$0
<b>4.7 - Limited Review</b>	0	0	0	0	0	0	0	0	0	0	0	\$0
<b>TOTAL - Final Engineering Phase</b>	62	0	4	54	82.5	5	10	0	1		156.5	\$6,753
<b>5 - Construction Phase</b>												
<b>5.1 - On-going Services during Construction</b>												
5.1.A - On-going Services During Construction											0	\$0
<b>TOTAL 5.1 - On-going Services during Construction</b>	0	0	0	0	0	0	0	0	0	0	0	\$0
<b>TOTAL - Construction Phase</b>	0	0	0	0	0	0	0	0	0	0	0	\$0
<b>TOTAL AUTHORIZED PARTS</b>	135	0	22	302	436.5	6	10	0	1		777.5	\$33,661
<b>IF-AUTHORIZED TASKS:</b>												
<b>2 - Preliminary Engineering Phase</b>												
2.7.B - Drainage												
2.7.B.E - BMP Design	1			4	9						13	\$514
<b>TOTAL - Preliminary Engineering Phase</b>	1	0	0	4	9	0	0	0	0	0	13	\$514

[illegible]

C-R-S	ERI-CR500-01.37	PROPOSAL COST SUMMARY									Version: Sept 2021
Consultant:	Mott MacDonald										
Agreement No.	TBD			State Average Overhead Rate			156.68%				
Modification No.	0			Consultant Overhead Rate:			162.36%				
PID No.	113957			Cost of Money:			0.17%				
Proposal Date	1/14/2022			Net Fee Percentage:			11%				
		No. of Units	Average Hourly Rate	Total Hours	Labor Costs	Overhead Costs	Cost of Money	Direct Costs	Subcon Costs	Net Fee	Total Cost
<b>Task Description</b>											
<b>AUTHORIZED TASKS:</b>											
<b>2 - Preliminary Engineering Phase</b>											
<b>2.1 - Develop Preliminary Alternatives</b>											
2.1.A - Prepare and Complete Feasibility Study Report											
2.1.A.G - Preliminary Alignment and Profile		0	#DIV/0!	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>TOTAL 2.1 - Develop Preliminary Alternatives</b>		0		0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>2.2 - Perform Environmental Field Studies</b>											
2.2.B - Cultural Resources Scoping Request Form		1	\$58.75	1	\$59	\$95	\$0	\$0	\$1,581	\$17	\$1,752
2.2.C - Ecological Survey Report		1	\$58.75	1	\$59	\$95	\$0	\$0	\$3,684	\$17	\$3,855
2.2.D - Regulated Materials Review Screening Form		1	\$58.75	1	\$59	\$95	\$0	\$0	\$4,076	\$17	\$4,247
<b>TOTAL 2.2 - Perform Environmental Field Studies</b>		3	\$58.75	3	\$176	\$286	\$0	\$0	\$9,341	\$50	\$9,853
<b>2.3 - AER Design</b>											
2.3.A - Field Survey and Aerial Mapping											
2.3.A.C - Base Mapping (incl. field verify.)											
2.3.A.C.1 - No R/W Project		1	\$46.42	18	\$836	\$1,357	\$1	\$55	\$24,207	\$236	\$26,691
2.3.A.G - Property Owner Notification		0	#DIV/0!	0	\$0	\$0	\$0	\$21	\$0	\$0	\$21
2.3.C - Drainage											
2.3.C.E - Conceptual BMP		1	\$45.88	6.5	\$298	\$484	\$1	\$0	\$0	\$84	\$867
<b>TOTAL 2.3 - AER Design</b>		2	\$46.28	24.5	\$1,134	\$1,841	\$2	\$76	\$24,207	\$320	\$27,580
<b>2.6 - Public Involvement/Coordination</b>											
2.6.A - Public Involvement / Coordination		1	#DIV/0!	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>TOTAL 2.6 - Public Involvement/Coordination</b>		1		0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>2.7 - Stage 1 Design</b>											
2.7.A - Roadway											
2.7.A.A - Title Sheet		1	\$37.94	8	\$304	\$493	\$1	\$0	\$0	\$86	\$882
2.7.A.B - Schematic Plan		1	\$40.71	20	\$814	\$1,322	\$1	\$0	\$0	\$230	\$2,368
2.7.A.C - General Notes		1	\$37.94	4	\$152	\$246	\$0	\$0	\$0	\$43	\$441
2.7.A.D - Typical Sections		2	\$38.77	25	\$969	\$1,574	\$2	\$0	\$0	\$274	\$2,818
2.7.A.E - Cross Sections		2	\$39.67	16	\$635	\$1,031	\$1	\$0	\$0	\$179	\$1,846
2.7.A.F - Plan and Profile - Mainline		6	\$41.97	144	\$6,044	\$9,812	\$10	\$0	\$0	\$1,706	\$17,572
2.7.A.J - Intersection Details		2	\$40.25	24	\$966	\$1,568	\$2	\$0	\$0	\$273	\$2,809
2.7.A.L - Driveway Details		4	\$40.54	32	\$1,297	\$2,106	\$2	\$0	\$0	\$366	\$3,772
2.7.A.N - Traffic Control		6	\$40.25	24	\$966	\$1,568	\$2	\$0	\$0	\$273	\$2,809
2.7.B - Drainage											
2.7.B.A - Storm Sewer Profiles		2	\$39.54	13	\$514	\$835	\$1	\$0	\$0	\$145	\$1,495
2.7.B.D - Drainage Calculations		0	#DIV/0!	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2.7.B.D.3 - Storm Sewer		1	\$39.54	6.5	\$257	\$417	\$0	\$0	\$0	\$73	\$747
2.7.B.E - BMP Design		0	#DIV/0!	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2.7.C - Utilities											

C-R-S	ERI-CR500-01.37	PROPOSAL COST SUMMARY									Version: Sept 2021
Consultant:	Mott MacDonald										
Agreement No.	TBD			State Average Overhead Rate			156.68%				
Modification No.	0			Consultant Overhead Rate:			162.36%				
PID No.	113957			Cost of Money:			0.17%				
Proposal Date	1/14/2022			Net Fee Percentage:			11%				
		No. of Units	Average Hourly Rate	Total Hours	Labor Costs	Overhead Costs	Cost of Money	Direct Costs	Subcon Costs	Net Fee	Total Cost
Task Description											
2.7.C.A - Utility Coordination and Documentation		1	\$58.75	8	\$470	\$763	\$1	\$0	\$0	\$133	\$1,367
2.7.D - Geotechnical Services											
2.7.D.A - Geotechnical Services and Report		1	\$58.75	4	\$235	\$382	\$0	\$0	\$12,908	\$66	\$13,591
2.7.G - Miscellaneous											
2.7.G.C - Finalize Pavement Build up and subsurface drainage requirements		0	#DIV/0!	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2.7.H - Prepare C2 Cost Estimates and Update Milestones											
2.7.H.A - Roadway/Interchange Costs		1	\$41.97	24	\$1,007	\$1,635	\$2	\$0	\$0	\$284	\$2,929
2.7.J - Maintenance of Traffic											
2.7.J.A - Detour Plan		1	\$41.41	8	\$331	\$538	\$1	\$0	\$0	\$94	\$963
TOTAL - 2.7 - Stage 1 Design		32	\$41.50	360.5	\$14,961	\$24,290	\$25	\$0	\$12,908	\$4,224	\$56,409
2.8 - Project Management for Preliminary Engineering Phase											
2.8.A - Meetings		1	\$58.75	6	\$353	\$572	\$1	\$0	\$0	\$100	\$1,025
2.8.B - General Oversight		1	\$60.20	28	\$1,686	\$2,737	\$3	\$199	\$0	\$476	\$5,100
TOTAL 2.8 - Project Management for Preliminary Engineering Phase			\$59.94	34	\$2,038	\$3,309	\$3	\$199	\$0	\$575	\$6,125
Total - 2 Preliminary Engineering Phase		38		422	\$18,309	\$29,726	\$31	\$275	\$46,456	\$5,169	\$99,966
3 - Stage 2 Detailed Design											
3.3 - Stage2											
3.3.A - Roadway											
3.3.A.A - Title Sheet		1	\$37.94	4	\$152	\$246	\$0	\$0	\$0	\$43	\$441
3.3.A.B - Schematic		1	\$37.94	4	\$152	\$246	\$0	\$0	\$0	\$43	\$441
3.3.A.C - General Notes		3	\$41.41	24	\$994	\$1,613	\$2	\$0	\$0	\$281	\$2,889
3.3.A.D - Typical Sections		2	\$43.45	10	\$435	\$705	\$1	\$0	\$0	\$123	\$1,263
3.3.A.E- Plan and Profile - Mainline		6	\$42.25	48	\$2,028	\$3,293	\$3	\$0	\$0	\$573	\$5,897
3.3.A.H - Cross Sections		2	\$41.41	8	\$331	\$538	\$1	\$0	\$0	\$94	\$963
3.3.A.I - Intersection Details		2	\$40.25	24	\$966	\$1,568	\$2	\$0	\$0	\$273	\$2,809
3.3.B - Drainage											
3.3.B.A - Storm Sewer Profiles		1	\$39.54	6.5	\$257	\$417	\$0	\$0	\$0	\$73	\$747
3.3.B.D - Underdrain details		1	\$39.54	6.5	\$257	\$417	\$0	\$0	\$0	\$73	\$747
3.3.B.E - BMP Details		0	#DIV/0!	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3.3.C - Traffic Control											
3.3.C.A - Pavement Marking Plan		6	\$37.94	24	\$911	\$1,478	\$2	\$0	\$0	\$257	\$2,647
3.3.C.B - Signing Plan		0	#DIV/0!	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3.3.E - Maintenance of Traffic											
3.3.E.A - MOT General Notes		2	\$43.09	8	\$345	\$560	\$1	\$0	\$0	\$97	\$1,002
3.3.E.E - MOT Typical Sections		1	\$37.94	4	\$152	\$246	\$0	\$0	\$0	\$43	\$441
3.3.E.F - MOT Plan Sheets		0	#DIV/0!	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3.3.J - Utilities											
3.3.J.A - Utility Coordination and Documentation		1	\$58.75	8	\$470	\$763	\$1	\$0	\$0	\$133	\$1,367

C-R-S	ERI-CR500-01.37	PROPOSAL COST SUMMARY									Version: Sept 2021
Consultant:	Mott MacDonald										
Agreement No.	TBD					State Average Overhead Rate	156.68%				
Modification No.	0					Consultant Overhead Rate:	162.36%				
PID No.	113957					Cost of Money:	0.17%				
Proposal Date	1/14/2022					Net Fee Percentage:	11%				
		No. of Units	Average Hourly Rate	Total Hours	Labor Costs	Overhead Costs	Cost of Money	Direct Costs	Subcon Costs	Net Fee	Total Cost
<b>Task Description</b>											
<b>TOTAL 3.3 - Stage2</b>		29		180	\$7,511	\$12,195	\$13	\$0	\$0	\$2,121	\$21,840
<b>3.5 - Prepare Environmental Document</b>											
3.5.A - Prepare Environmental Document		1	\$58.75	1	\$59	\$95	\$0	\$0	\$3,574	\$17	\$3,745
<b>TOTAL 3.5 - Prepare Environmental Document</b>		1		1	\$59	\$95	\$0	\$0	\$3,574	\$17	\$3,745
<b>3.6 - Environmental Commitments and Plan Notes</b>											
3.6.A - Environmental Commitment Plan Notes		1	\$31.00	2	\$62	\$101	\$0	\$0	\$0	\$18	\$180
<b>TOTAL 3.6 - Environmental Commitments and Plan Notes</b>		1		2	\$62	\$101	\$0	\$0	\$0	\$18	\$180
<b>3.8 - Prepare Cost Estimates and Revise Milestone</b>											
3.8.A - Roadway/Interchange Costs		0	#DIV/0!	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>TOTAL 3.8 - Prepare Cost Estimates and Revise Milestone</b>		0	#DIV/0!	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>3.9 - Project Management for Environmental Engineering Phase</b>											
3.9.A - Meetings		0	#DIV/0!	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3.9.B - General Oversight		1	\$60.44	16	\$967	\$1,570	\$2	\$124	\$2,061	\$273	\$4,997
<b>TOTAL 3.9 - Project Management for Environmental Engineering Phase</b>		1	\$60.44	16	\$967	\$1,570	\$2	\$124	\$2,061	\$273	\$4,997
<b>Total - 3 Stage 2 Detailed Design Phase</b>		32		199	\$8,599	\$13,961	\$15	\$124	\$5,635	\$2,428	\$30,762
<b>4 - Final Engineering and R/W Phase</b>											
<b>4.2 - Stage 3 Detailed Design Plans</b>											
<b>4.2.A - Quantities and Notes</b>											
4.2.A.A - Pavement Subsummary		1	\$40.25	12	\$483	\$784	\$1	\$0	\$0	\$136	\$1,404
4.2.A.B - Drainage Subsummary		1	\$41.41	8	\$331	\$538	\$1	\$0	\$0	\$94	\$963
4.2.A.C - Roadway Subsummary		1	\$40.25	9	\$362	\$588	\$1	\$0	\$0	\$102	\$1,053
4.2.A.E - Maintenance of Traffic Subsummary		1	\$40.25	3	\$121	\$196	\$0	\$0	\$0	\$34	\$351
4.2.A.F - Pavement Marking Subsummary		1	\$48.01	17	\$816	\$1,325	\$1	\$0	\$0	\$230	\$2,373
4.2.A.M - General Summary Sheet		2	\$41.40	36	\$1,490	\$2,420	\$3	\$0	\$0	\$421	\$4,333
4.2.A.P - General Notes		3	\$40.25	12	\$483	\$784	\$1	\$0	\$0	\$136	\$1,404
4.2.A.Q - Driveway Subsummary or Driveway Details (if included on same sheet)		1	\$40.79	8.5	\$347	\$563	\$1	\$0	\$0	\$98	\$1,008
<b>4.2.D - Miscellaneous</b>											
4.2.D.F - Miscellaneous Details		4	\$37.94	16	\$607	\$986	\$1	\$0	\$0	\$171	\$1,765
<b>TOTAL 4.2 - Stage 3 Detailed Design Plans</b>		15		121.5	\$5,041	\$8,184	\$9	\$0	\$0	\$1,423	\$14,656
<b>4.3 - Prepare Cost Estimates and Revise Milestone</b>											
4.3.A - Roadway/Interchange Costs		1	\$43.45	10	\$435	\$705	\$1	\$0	\$0	\$123	\$1,263
<b>TOTAL 4.3 - Prepare Cost Estimates and Revise Milestone</b>		1		10	\$435	\$705	\$1	\$0	\$0	\$123	\$1,263

C-R-S	ERI-CR500-01.37	PROPOSAL COST SUMMARY									Version: Sept 2021
Consultant:	Mott MacDonald										
Agreement No.	TBD			State Average Overhead Rate			156.68%				
Modification No.	0			Consultant Overhead Rate:			162.36%				
PID No.	113957			Cost of Money:			0.17%				
Proposal Date	1/14/2022			Net Fee Percentage:			11%				
		No. of Units	Average Hourly Rate	Total Hours	Labor Costs	Overhead Costs	Cost of Money	Direct Costs	Subcon Costs	Net Fee	Total Cost
Task Description											
4.4 - Final Plan Package											
4.4.A - Submission of Final Tracings and Documentation		44	\$42.32	11	\$466	\$756	\$1	\$12	\$0	\$131	\$1,366
4.4 - Final Plan Package		44		11	\$466	\$756	\$1	\$12	\$0	\$131	\$1,366
4.5 - Project Management for Final Engineering and Right of Way Phase											
4.5.A - Meetings		1	\$58.75	6	\$353	\$572	\$1	\$0	\$0	\$100	\$1,025
4.5.B - General Oversight		1	\$57.53	8	\$460	\$747	\$1	\$124	\$0	\$130	\$1,462
TOTAL 4.5 - Project Management for Final Engineering and Right of Way Phase		2		14	\$813	\$1,320	\$1	\$124	\$0	\$229	\$2,487
4.6 - Pre-Bid Activities											
4.6.A - Pre-Bid Questions		0	#DIV/0!	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL 4.6 - Pre-Bid Activities		0		0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4.7 - Limited Review											
4.7.A - QA/QC for Limited Review		0	#DIV/0!	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4.7 - Limited Review		0		0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL - Final Engineering Phase		62		156.5	\$6,753	\$10,965	\$11	\$136	\$0	\$1,907	\$19,772
5 - Construction Phase											
5.1 - On-going Services during Construction											
5.1.A - On-going Services During Construction		0	#DIV/0!	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL 5.1 - On-going Services during Construction		0		0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL - Construction Phase		0		0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL AUTHORIZED PARTS		132		777.5	\$33,661	\$54,652	\$57	\$535	\$52,091	\$9,504	\$150,500
IF-AUTHORIZED TASKS:											
2 - Preliminary Engineering Phase											
2.7.B - Drainage											
2.7.B.E - BMP Design		1	\$39.54	13	\$514	\$835	\$1	\$0	\$0	\$145	\$1,495
TOTAL - Preliminary Engineering Phase		1		13	\$514	\$835	\$1	\$0	\$0	\$145	\$1,495





C-R-S	ERI-CR500-01.37	DIRECT COSTS									Version: Sept 2021
Consultant:	Mott MacDonald	Miscellaneous	Meals	8.5x11 BW Copies	11x17 BW Copies	Mileage	Postage Package	Stamps	Direct Cost 8	Direct Cost 9	Total
Agreement No.	TBD										
Modification No.	0										
PID No.	113957										
Proposal Date	1/14/2022										
Task Description	Unit Cost:	\$1.00	\$1.00	\$0.09	\$0.27	\$0.52	\$12.00	\$0.55			
AUTHORIZED TASKS:											
2 - Preliminary Engineering Phase											
2.1 - Develop Preliminary Alternatives											
2.1.A -Prepare and Complete Feasibility Study Report											
2.1.A.G - Preliminary Alignment and Profile											
TOTAL 2.1 - Develop Preliminary Alternatives											
2.2 - Perform Environmental Field Studies											
2.2.B – Cultural Resources Scoping Request From											
2.2.C - Ecological Survey Report											
2.2.D - Regulated Materials Review Screening Form											
TOTAL 2.2 - Perform Environmental Field Studies											
2.3 - AER Design											
2.3.A - Field Survey and Aerial Mapping											
2.3.A.C - Base Mapping (incl. field verify.)											
2.3.A.C.1 - No R/W Project											
2.3.A.G - Property Owner Notification											
2.3.C - Drainage											
2.3.C.E - Conceptual BMP											
TOTAL 2.3 - AER Design											
2.6 - Public Involvement/Coordination											
2.6.A - Public Involvement / Coordination											
TOTAL 2.6 - Public Involvement/Coordination											
2.7 - Stage 1 Design											
2.7.A - Roadway											
2.7.A.A - Title Sheet											
2.7.A.B - Schematic Plan											
2.7.A.C - General Notes											
2.7.A.D - Typical Sections											
2.7.A.E - Cross Sections											
2.7.A.F - Plan and Profile - Mainline											
2.7.A.J - Intersection Details											
2.7.A.L - Driveway Details											
2.7.A.N - Traffic Control											
2.7.B - Drainage											
2.7.B.A - Storm Sewer Profiles											
2.7.B.D - Drainage Calculations											
2.7.B.D.3 - Storm Sewer											
2.7.B.E - BMP Design											
2.7.C - Utilities											

C-R-S	ERI-CR500-01.37	DIRECT COSTS									Version: Sept 2021
Consultant:	Mott MacDonald	Miscellaneous	Meals	8.5x11 BW Copies	11x17 BW Copies	Mileage	Postage Package	Stamps	Direct Cost 8	Direct Cost 9	Total
Agreement No.	TBD										
Modification No.	0										
PID No.	113957										
Proposal Date	1/14/2022										
Task Description	Unit Cost:	\$1.00	\$1.00	\$0.09	\$0.27	\$0.52	\$12.00	\$0.55			
2.7.C.A - Utility Coordination and Documentation											\$0.00
2.7.D - Geotechnical Services											
2.7.D.A - Geotechnical Services and Report											\$0.00
2.7.G - Miscellaneous											
2.7.G.C - Finalize Pavement Build up and subsurface drainage requirements											\$0.00
2.7.H - Prepare C2 Cost Estimates and Update Milestones											
2.7.H.A - Roadway/Interchange Costs											\$0.00
2.7.J - Maintenance of Traffic											
2.7.J.A - Detour Plan											\$0.00
TOTAL - 2.7 - Stage 1 Design		0	0	0	0	0	0	0	0	0	\$0.00
2.8 - Project Management for Preliminary Engineering Phase											
2.8.A - Meetings											\$0.00
2.8.B - General Oversight		175					2				\$199.00
TOTAL 2.8 - Project Management for Preliminary Engineering Phase		175	0	0	0	0	2	0	0	0	\$199.00
Total - 2 Preliminary Engineering Phase		175	0	0	0	106	2	38	0	0	\$275.02
3 - Stage 2 Detailed Design											
3.3 - Stage2											
3.3.A - Roadway											
3.3.A.A - Title Sheet											\$0.00
3.3.A.B - Schematic											\$0.00
3.3.A.C - General Notes											\$0.00
3.3.A.D - Typical Sections											\$0.00
3.3.A.E- Plan and Profile - Mainline											\$0.00
3.3.A.H - Cross Sections											\$0.00
3.3.A.I - Intersection Details											\$0.00
3.3.B - Drainage											
3.3.B.A - Storm Sewer Profiles											\$0.00
3.3.B.D - Underdrain details											\$0.00
3.3.B.E - BMP Details											\$0.00
3.3.C - Traffic Control											
3.3.C.A - Pavement Marking Plan											\$0.00
3.3.C.B - Signing Plan											\$0.00
3.3.E - Maintenance of Traffic											
3.3.E.A - MOT General Notes											\$0.00
3.3.E.E - MOT Typical Sections											\$0.00
3.3.E.F - MOT Plan Sheets											\$0.00
3.3.J - Utilities											
3.3.J.A - Utility Coordination and Documentation											\$0.00

C-R-S	ERI-CR500-01.37	DIRECT COSTS									Version: Sept 2021
Consultant:	Mott MacDonald	Miscellaneous	Meals	8.5x11 BW Copies	11x17 BW Copies	Mileage	Postage Package	Stamps	Direct Cost 8	Direct Cost 9	Total
Agreement No.	TBD										
Modification No.	0										
PID No.	113957										
Proposal Date	1/14/2022										
Task Description	Unit Cost:	\$1.00	\$1.00	\$0.09	\$0.27	\$0.52	\$12.00	\$0.55			
TOTAL 3.3 - Stage2		0	0	0	0	0	0	0	0	0	\$0.00
3.5 - Prepare Environmental Document											
3.5.A - Prepare Environmental Document											\$0.00
TOTAL 3.5 - Prepare Environmental Document		0	0	0	0	0	0	0	0	0	\$0.00
3.6 - Environmental Commitments and Plan Notes											
3.6.A - Environmental Commitment Plan Notes											\$0.00
TOTAL 3.6 - Environmental Commitments and Plan Notes		0	0	0	0	0	0	0	0	0	\$0.00
3.8 - Prepare Cost Estimates and Revise Milestone											
3.8.A - Roadway/Interchange Costs											\$0.00
TOTAL 3.8 - Prepare Cost Estimates and Revise Milestone		0	0	0	0	0	0	0	0	0	\$0.00
3.9 - Project Management for Environmental Engineering Phase											
3.9.A - Meetings											\$0.00
3.9.B - General Oversight		100					2				\$124.00
TOTAL 3.9 - Project Management for Environmental Engineering Phase		100	0	0	0	0	2	0	0	0	\$124.00
Total - 3 Stage 2 Detailed Design Phase		100	0	0	0	0	2	0	0	0	\$124.00
4 - Final Engineering and R/W Phase											
4.2 - Stage 3 Detailed Design Plans											
4.2.A - Quantities and Notes											
4.2.A.A - Pavement Subsummary											\$0.00
4.2.A.B - Drainage Subsummary											\$0.00
4.2.A.C - Roadway Subsummary											\$0.00
4.2.A.E - Maintenance of Traffic Subsummary											\$0.00
4.2.A.F - Pavement Marking Subsummary											\$0.00
4.2.A.M - General Summary Sheet											\$0.00
4.2.A.P - General Notes											\$0.00
4.2.A.Q - Driveway Subsummary or Driveway Details (if included on same sheet)											\$0.00
4.2.D - Miscellaneous											
4.2.D.F - Miscellaneous Details											\$0.00
TOTAL 4.2 - Stage 3 Detailed Design Plans		0	0	0	0	0	0	0	0	0	\$0.00
4.3 - Prepare Cost Estimates and Revise Milestone											
4.3.A - Roadway/Interchange Costs											\$0.00
TOTAL 4.3 - Prepare Cost Estimates and Revise Milestone		0	0	0	0	0	0	0	0	0	\$0.00

C-R-S	ERI-CR500-01.37	DIRECT COSTS									Version: Sept 2021
Consultant:	Mott MacDonald	Miscellaneous	Meals	8.5x11 BW Copies	11x17 BW Copies	Mileage	Postage Package	Stamps	Direct Cost 8	Direct Cost 9	Total
Agreement No.	TBD										
Modification No.	0										
PID No.	113957										
Proposal Date	1/14/2022										
Task Description	Unit Cost:	\$1.00	\$1.00	\$0.09	\$0.27	\$0.52	\$12.00	\$0.55			
4.4 - Final Plan Package											
4.4.A - Submission of Final Tracings and Documentation							1				\$12.00
4.4 - Final Plan Package		0	0	0	0	0	1	0	0	0	\$12.00
4.5 - Project Management for Final Engineering and Right of Way Phase											
4.5.A - Meetings											\$0.00
4.5.B - General Oversight		100					2				\$124.00
TOTAL 4.5 - Project Management for Final Engineering and Right of Way Phase		100	0	0	0	0	2	0	0	0	\$124.00
4.6 - Pre-Bid Activities											
4.6.A - Pre-Bid Questions											\$0.00
TOTAL 4.6 - Pre-Bid Activities		0	0	0	0	0	0	0	0	0	\$0.00
4.7 - Limited Review											
4.7.A - QA/QC for Limited Review											\$0.00
4.7 - Limited Review		0	0	0	0	0	0	0	0	0	\$0.00
TOTAL - Final Engineering Phase		100	0	0	0	0	3	0	0	0	\$136.00
5 - Construction Phase											
5.1 - On-going Services during Construction											
5.1.A - On-going Services During Construction											\$0.00
TOTAL 5.1 - On-going Services during Construction		0	0	0	0	0	0	0	0	0	\$0.00
TOTAL - Construction Phase		0	0	0	0	0	0	0	0	0	\$0.00
TOTAL AUTHORIZED PARTS		375	0	0	0	106	7	38	0	0	\$535
IF-AUTHORIZED TASKS:											
2 - Preliminary Engineering Phase											
2.7.B - Drainage											
2.7.B.E - BMP Design											\$0.00
TOTAL - Preliminary Engineering Phase		0	0	0	0	0	0	0	0	0	\$0.00



# Appendix B

## Subconsultants Proposals

### EXHIBIT "A"

## Engineering Services Agreement

<b>Engineer:</b> K.E. McCartney & Associates, Inc.	<b>Client:</b> Mott MacDonald
52 N. Diamond St.	18013 Cleveland Parkway Drive, Suite 200
Mansfield, Ohio 44902	Cleveland, Ohio 44135
<b>Project No.</b> PR-1203	<b>Date:</b> January 14, 2022
<b>Project Name:</b> ERI-CR0500-1.37; PID 113957	<b>Location:</b> Sandusky, Ohio

### **Scope of Services:**

#### **Field survey:**

- Establish horizontal and vertical control points and locate the existing roadway right of way of way, determining and plotting the existing roadway center lines
- Full drainage, sanitary and combination sewer survey (including pipe size, type, invert and casting elevation, flow direction, sketches, photos, etc.)
- Topography
- Call to OUPS to request plans and field markings. Surveying of OUPS delineated utility locations and other utility features in full topo areas
- Planimetric features including existing loop detectors, trees, signs, and geotechnical borings.

#### **Survey Limits:**

- Survey of the following ADA deficient or missing curb ramps on West Monroe Street only:
  - The intersections of Jay, Mills, Putnam, Harrison, Pearl, Camp, Clinton, Pear, and Broadway
- Entire intersection of West Monroe with Tiffin and Camp extending 100' past the radius return on Tiffin and Camp (400 L.F.)
- Park at the corner of Monroe/Mills/Tiffin for use as a potential location of a future detention pond (0.4 Ac.)
- Survey half of the road pavement or treelawn depending on the alignment selected by Client for future storm sewer to determine future casting elevations. Survey will be done later in 2022.

#### **Deliverables:**

Survey base map shall be generated by KEM in AutoCAD version 2016 or later, DTM will be furnished electronically in LandXML format. Scale shall be 1"=20' and contours shall be every 1'. Other deliverables include all survey point information including control points and benchmarks, photos, field book and any other information generated during field work.

#### **Schedule:**

Weather permitting, KEM will provide all deliverables within 45 calendar days of Notice to Proceed.

<b>Fee Arrangement:</b>	Billed on an Hourly Rate basis not to exceed: <b>\$24,207.00</b>
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#### **KEM 2022 Hourly Rates:**

Department Manager	\$167.00/HR	Sr Engineering Tech	\$ 95.00/HR	Add. Survey Crew Member	\$ 61.00/HR
Senior Project Manager	\$138.00/HR	Engineering Tech	\$ 76.00/HR	Administrative Assistant	\$ 72.00/HR
Project Manager	\$120.00/HR	Project Inspector	\$ 89.00/HR	Field Technician	\$ 73.00/HR
Project Engineer	\$107.00/HR	Survey w/Robotics	\$122.00/HR	CCTV Inspection	\$232.00/HR
Drone Services	\$109.00/HR	Survey with 3d Scanner	\$200.00/HR	Vac Truck	\$232.00/HR

#### **Special Conditions:**

1. Additional services include any not listed in the Scope of Services and will be billed at standard hourly rates following approval of the Client.
2. Site assessments including archaeological, environmental, ecological and wetland, or other such; and site investigations such as soil borings, or other such; are the responsibility of the Client. The Client shall provide KEM with any such assessments, delineations, or investigations that may impact project design.
3. Utilities marked by OUPS member companies will be surveyed pursuant to FHWA SUE QL-C. Engineer will make up to two (2) requests for locates to OUPS for utility owners to be notified.
4. No subsurface utility engineering (SUE) work is included.
5. Standard hourly rates may be adjusted annually as of 2023 to reflect current cost associated with inflation and overhead expenses.

**ERI-CR500-01.37**  
Mott Macdonald  
PID 113957

**ESTIMATE BY HOURS**

Category	Department Manager	Senior Proj. Manager	Proj. Manager	Proj. Eng.	Sr. Tech.	Tech.	Field Tech.	Survey Crew	Survey w/ 3D Scanner	Miles	KEM	Sub and/or Equip	SUBTOTAL	PHASE TOTALS
<b>1</b> <b>Surveying</b>														<b>\$24,207.00</b>
1.01    Field Work	1	4				4	20	75	10	900	\$14,101.00		\$14,101.00	
1.02    Base Map	2	24			20	60					\$10,106.00		\$10,106.00	
<b>Hours Subtotal</b>	<b>3</b>	<b>28</b>	<b>0</b>	<b>0</b>	<b>20</b>	<b>64</b>	<b>20</b>	<b>75</b>	<b>10</b>	<b>900</b>				
2022 Hourly Rate	\$167.00	\$138.00	\$120.00	\$107.00	\$95.00	\$76.00	\$73.00	\$122.00	\$200.00	\$0.52				
Design Budget Subtotal	\$501.00	\$3,864.00	\$-	\$-	\$1,900.00	\$4,864.00	\$1,460.00	\$9,150.00	\$2,000.00	\$468.00	\$24,207.00	\$-		
<b>TOTAL DESIGN BUDGET</b>													<b>\$24,207.00</b>	

EXHIBIT "A"





# Lawhon & Associates, Inc.

ENVIRONMENTAL CONSULTING AND ENGINEERING SERVICES

Columbus  
Cleveland  
Dayton  
Cincinnati

December 29, 2021

Chris Preto, PE, ENV SP, LEED AP BD+C  
Mott MacDonald  
18013 Cleveland Parkway Drive  
Suite 200  
Cleveland, OH 44135

RE: ERI-CR0500-1.37 (W Monroe St) PID No. 113957  
Environmental Scope  
Sandusky, Erie County, Ohio

Dear Mr. Preto:

Lawhon & Associates, Inc. is pleased to submit our proposal for the West Monroe Street improvement project. The proposed project includes storm sewer improvements, roadway reconstruction and roadway resurfacing along West Monroe Street, between Broadway St. and Camp Street in Sandusky, Erie County, Ohio. There will be no new right of way acquired. Our fee estimate is based upon correspondence with you on December 17<sup>th</sup> and December 28<sup>th</sup>. Our fee assumes Mott MacDonald will send out the property owner notification letters. A review of National Wetland Inventory map shows no ecological resources in the project area, we assume there will be no impacts and waterway permitting will not be required. Our proposed tasks include:

**Level 1 Ecological Survey Report** – Lawhon will complete a Level 1 Ecological Survey Report. The report will delineate wetlands if present, and any impacts will be calculated based upon Stage 1 design. The survey will utilize ODOT's most recent guidance manual and will be uploaded to EnviroNet for review and coordination.

**Section 106 Scoping Request**- Lawhon will complete a Section 106 Scoping Request Form per ODOT's most recent guidance manual. The form will be uploaded to ODOT's EnviroNet system for review and coordination

**Regulated Materials Review (RMR)**- The RMR Screening is the most recent ODOT equivalent to the Environmental Site Assessment (ESA) Screening. Lawhon will complete the RMR Screening following ODOT's current guidance manual; form will be uploaded to EnviroNet for review.

**C2 Environmental Document**- The project will be processed as a Level 2 Categorical Exclusion (C2). The CE will include all necessary documentation of required studies and will include Environmental Justice mapping, and public involvement documentation. This fee does not include standalone studies. CE will be completed and submitted through ODOT's EnviroNet system.

**General Oversight**- This task includes project setup, client updates, scheduling, invoices and client communication through project completion.

***If Authorized***

***Phase I Cultural Resource History/Architecture Survey-*** Two NRHP properties were identified within the project footprint, one of which has been demolished. Some of the Ohio Historic Inventory (OHIs) in the area have had "NR District Potential" checked on their forms so the research on the area would need to account for whether a historic district existed in the area. This task involves preparation of a Phase I Cultural Resources Survey for the footprint of the preferred alternative. If it is required, the scope of effort will be determined by ODOT as part of the review of the Section 106 Scoping Request Form. The fee estimate provided is based upon the anticipated project footprint and is a medium level in the ODOT Consultant Fee Guidance.

Fees were created using the ODOT Consultant Fee Guidance plus travel time when appropriate. All studies will follow the most recent OES guidance manuals and will be uploaded to EnviroNet for review and coordination.

Enclosed is the fee estimate for this effort. Please let me know if you have any questions.

Respectfully,

  
Jessica Stratigakos  
Sr. Project Manager

  
Susan S. Daniels, PE, AICP  
Director of NEPA Planning

EXHIBIT "A"

## Proposal Cost Summary

C/R/S : ERI-CR0500-1.37 (W Monroe St)  
PID: 113957

CONSULTANT: Lawhon & Associates, Inc.

DATE: 12/29/2021

Overhead Percentage 143.47%  
Avg OH rate 158.08%  
Net Fee Percentage 11.00%  
Cost of money 0.62%

Task - Description	Avg. Rate	Total Hours	Labor Costs	Overhead Costs	Cost of Money	Direct Costs	Sub Cons.	Net Fee	Total Cost
Level 1 Ecological Survey Report	\$32.70	40	\$1,308	\$1,877	\$8	\$120	\$0	\$371	\$3,684
Section 106 Scoping Request	\$32.22	18	\$580	\$832	\$4	\$0	\$0	\$165	\$1,581
Regulated Materials Review (RMR)	\$34.00	44	\$1,496	\$2,146	\$9	\$0	\$0	\$425	\$4,076
C2 Environmental Document	\$41.00	32	\$1,312	\$1,882	\$8	\$0	\$0	\$372	\$3,574
General Oversight	\$47.25	16	\$756	\$1,085	\$5	\$0	\$0	\$215	\$2,061
Total Authorized Tasks	\$36.35	150	\$5,452	\$7,822	\$34	\$120	\$0	\$1,548	\$14,976
<i>If Authorized</i>									
Phase I Cultural Resource History/Architecture Survey	\$47.25	110	\$3,940	\$5,653	\$24	\$508	\$0	\$1,119	\$11,244
Total with if Authorized Tasks	\$36.12	260	\$9,392	\$13,475	\$58	\$628	\$0	\$2,667	\$26,220

## Proposed Labor Rates and Hours

C/R/S : ERI-CR0500-1.37 (W Monroe St)  
 PID: 113957  
 Task Order: 0  
 Agreement Number: 0

CONSULTANT: Lawhon & Associates, Inc.

DATE: 12/29/2021

Category	Rate	Category	Rate
PR	\$70.00	Eng1	\$28.00
ES4	\$44.00	ES1	\$20.00
ES3	\$36.00	ES1-OT	\$30.00
ES2	\$28.00	GIS/Admin	\$30.00

Task	Labor Hours by Category								Total Hours	Labor Costs
	PR	ES4	ES3	ES2	Eng1	ES1	ES1-OT	GIS/Admin		
Level 1 Ecological Survey Report	0	6	10	18	0	0	0	6	40	\$1,308
Section 106 Scoping Request	0	4	0	8	0	0	0	6	18	\$580
Regulated Materials Review (RMR)	0	6	20	14	0	0	0	4	44	\$1,496
C2 Environmental Document	0	20	12	0	0	0	0	0	32	\$1,312
General Oversight	2	14	0	0	0	0	0	0	16	\$756
<b>Total Authorized Tasks</b>	<b>2</b>	<b>50</b>	<b>42</b>	<b>40</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>16</b>	<b>150</b>	<b>\$5,452</b>
<i>If Authorized</i>										
<i>Phase I Cultural Resource History/Architecture Survey</i>	0	32	42	30	0	0	0	6	110	\$3,940
<i>al with if Authorized Tasks</i>	0	32	42	30	0	0	0	6	110	\$9,392

## Non-Labor Direct Cost Summary

C/R/S : ERI-CR0500-1.37 (W Monroe St)  
PID: 113957  
Task Order: 0  
Agreement Number: 0

CONSULTANT: Lawhon & Associates, Inc.

DATE: 12/29/2021

# EXHIBIT "A"

Task	miles	mileage 0.52/mile	copies & postage	field supplies	per diem	hotel	other	Direct Costs
Level 1 Ecological Survey Report	230	\$120	\$0	\$0	\$0	\$0	\$0	\$120
Section 106 Scoping Request	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Regulated Materials Review (RMR)	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C2 Environmental Document	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
General Oversight	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Authorized Tasks	230	\$120	\$0	\$0	\$0	\$0	\$0	\$120
<i>If Authorized</i>								
Phase I Cultural Resource History/Architecture Survey	220	\$114	\$0	\$0	\$192	\$202	\$0	\$508
Total with if Authorized Tasks	450	\$234	\$0	\$0	\$0	\$0	\$0	\$628

December 30, 2021

Mott MacDonald  
18013 Cleveland Parkway Drive  
Suite 200  
Cleveland, Ohio 44135

Attention: Mr. Chris Preto, PE, ENV SP, LEED AP BD+C  
Principal Project Manager/Senior Associate

Reference: Proposal for Geotechnical Engineering Services  
ERI-CR0500-1.37 (W Monroe St) PID No. 113957  
Sandusky, Erie County, Ohio  
CTL Proposal No. 22050001CLE-PPL

Mr. Preto:

In response to your request, CTL Engineering, Inc. is pleased to submit this proposal for Geotechnical Engineering Services for the above referenced project. CTL will perform the subsurface investigation in accordance with your email request dated December 17, 2021 and ODOT Specifications for Geotechnical Exploration (SGE) with the exception of deliverable. Our report will not include soil profile, soil summary data, and design stage reviews/comments.

### **PROJECT DESCRIPTION AND SCOPE OF WORK**

The project consists of a storm sewer upgrades, roadway reconstruction and roadway resurfacing along West Monroe Street, between Broadway St. and Camp Street in Sandusky, Erie County, Ohio. We anticipate that the storm sewer will not be deeper than 6 to 8 feet below existing grades.

CTL plans to advance eight (8) soil borings at 10 feet deep below existing grades. CTL will obtain split spoon samples at 2.5-foot intervals in upper 10 feet. Borings will be advanced to the designated depths or sample refusal whichever occurs first. Our budget includes up to 5 feet of rock core at one of the proposed borings. The bore holes will be backfilled with auger cutting/cement mix. Laboratory testing will consist of visual-manual classification and moisture content of all samples, Atterberg Limits, Grain Size Analysis, and Sulfate Testing.

### **PROCEDURES**

CTL services will include the following items:

- A. Coordinate access with designated personnel.
- B. CTL will mark the soil borings in the field, Mott MacDonald or their representative will survey the borings and provide CTL with Stations, Offsets, elevation and Coordinates (Latitude/Longitude).

- C. CTL will contact Ohio Utility Protection Services (OUPS) to locate underground utilities. Borings, which are in the area of utilities will be offset and noted on the site plan.
- D. Drill the test borings near proposed areas and provide traffic control including flaggers.
- E. Field and laboratory testing in accordance with ASTM/ODOT specifications.
- F. Boring Location Plan.
- G. Engineering evaluation and reporting to include:
  - 1. General description of the site
  - 2. Boring logs and profile to include:
    - (a) Surface elevation at each test boring location.
    - (b) Thickness of pavement, topsoil and subsoil strata.
    - (c) Groundwater encountered during drilling, and at completion.
    - (d) Standard penetration and moisture content as a function of depth.
  - 3. Existing subsurface conditions.
  - 4. Groundwater/drainage management recommendations.
  - 5. Subgrade analysis and recommendations for pavement support.
  - 6. Recommendations for utility excavation, support, and backfill.

### **COST ESTIMATE**

The cost estimate will be in accordance with the attached rates. Based on the expected amount of work/scope, our budget is **\$12,908.00**.

### **CONTINGENCIES**

This proposal is valid for 90 days. If unforeseen conditions were encountered, the client will be notified to determine if additional work is required. In addition, this information is proprietary and confidential and CTL assumes no responsibility or liability for the reliance hereon or use hereof by anyone other than Mott MacDonald and his or her Representatives.

Additional Services if needed and authorized will be invoices at the provided rates:

### **SCHEDULE**

CTL can start the drilling within 7 to 10 working days of authorization and complete the field-testing within 9 to 10 working days pending on weather conditions. The geotechnical report will be available within 25 to 30 working days of authorization to proceed.

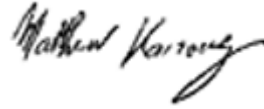


**CLOSING**

CTL is committed to provide comprehensive and quality services to its clients, and is confident that our services are commensurate with your professional expectations. CTL will assign the following staff to this project:

We sincerely appreciate the opportunity to provide this cost proposal and look forward to working with you. Should you have any questions, please feel free to contact me at (330) 220-8900.

Respectfully submitted,  
**CTL ENGINEERING, INC.**



H. Matthew Kairouz, P.E.  
Project Engineer

*Enclosure:*

- *Fee Schedule.*
- *Proposed Boring Location Plan.*

EXHIBIT "A"







*OHIO DEPARTMENT OF TRANSPORTATION*  
*OFFICE OF GEOTECHNICAL ENGINEERING*

*PROPOSAL*  
*for the*  
*GEOTECHNICAL EXPLORATION*

# EXHIBIT "A"

**ERI-CR0500-1.37**

**PID # 113957**

**W. Monroe St. Resurfacing & Utility Upgrades**

***CTL Engineering, Inc.***

Prepared By: **Matthew Kairouz**

Date prepared: **December 30, 2021**

**Matthew Kairouz  
3085 Interstate Parkway  
Brunswick, Ohio 44212**

**(330) 220-8900  
mkairouz@ctleng.com**



GEOTECHNICAL EXPLORATION PROPOSAL			LABOR HOURS								
C/R/S :	ERI-CR0500-1.37		<div>HOURLY RATES</div> <div><div>Personnel Category</div><div>Salary Rate</div></div> <div>Manager, P.E. \$61.50</div> <div>Project Engineer, P.E. \$49.00</div> <div>Staff Engineer \$31.00</div> <div>CADD Technician \$22.00</div> <div>Field Supervisor \$22.00</div> <div>Technician \$20.00</div> <div>Geologist \$22.00</div> <div>Secretary \$18.50</div>								
PID NO.:	PID # 113957										
CONSULTANT:	CTL Engineering, Inc.										
DATE:	December 30, 2021										
HOURS BY PERSONNEL CATEGORY											
Task	Manager	Project Engineer	Staff Engineer	CADD Technician	Field Supervisor	Technician	Geologist	Secretary	Total Hours	Labor Costs	
RECONNAISSANCE AND PLANNING											
Office Reconnaissance	0	1	0	0	0	0	0	0	1	\$49	
Field Reconnaissance	0	0	0	0	0	0	6	0	6	\$132	
Exploration Plan	1	0	0	0	0	0	0	0	1	\$62	
Subtotal	1	1	0	0	0	0	6	0	8	\$243	
FIELD COORDINATION											
Field Coordination	0	0	0	0	2	24	0	0	26	\$524	
Logging (if drilling is subcontracted)	0	0	0	0	0	0	0	0	0	\$0	
Subtotal	0	0	0	0	2	24	0	0	26	\$524	
GEOTECHNICAL EXPLORATION REPORT											
Subgrade and Roadway	0	2	16	0	0	0	4	4	26	\$756	
Bridge	0	0	0	0	0	0	0	0	0	\$0	
Other Structures (describe)	0	0	0	0	0	0	0	0	0	\$0	
Geohazard (describe)	0	0	0	0	0	0	0	0	0	\$0	
Stage 2 Plan Review	0	0	0	0	0	0	0	0	0	\$0	
Final Plan Review	0	0	0	0	0	0	0	0	0	\$0	
Subtotal	0	2	16	0	0	0	4	4	26	\$756	
LABOR TOTAL ALL PARTS	Total	1	3	16	0	2	24	10	4	60	\$1,523

GEOTECHNICAL EXPLORATION PROPOSAL				FIELD EXPLORATION		
C/R/S :	ERI-CR0500-1.37					
PID NO.:	PID # 113957					
CONSULTANT:	CTL Engineering, Inc.					
DATE:	December 30, 2021					
Task	Quantity	Unit	Unit Cost	Cost	Task Description	
Mobilization/Demobilization	1	lump	\$550.00	\$550	Getting the necessary equipment and personnel to and from the project site. Includes crew travel time and mileage to and from the site, at the start and upon completion.	
Subtotal				\$550		
Traffic Maintenance						
Typical Application No.	TA-21				Describe each traffic control set-up, as referenced in the Ohio Manual of Uniform Traffic Control Devices, by the Typical Application No. Includes all flaggers, law enforcement, per-diem, mileage, and equipment and personnel to set-up, maintain, and tear down traffic control zones	
	2	days	\$150.00	\$300		
Typical Application No.		days		\$0		
Railroad Traffic Control		days		\$0		
Subtotal				\$300		
Subsurface Exploration						
Hand Sampling					Includes all necessary equipment, materials, and personnel to move equipment and crew between borings, set-up, drill, sample, supply water, perform visual descriptions of rock samples, prepare field logs, backfill borehole, and contain, preserve and transport samples. All drilling footage measured from the ground surface or the bottom of the body of water, as applicable.	
Method Description		feet		\$0		
Method Description		feet		\$0		
Test Pits		each		\$0	Includes all equipment and personnel to excavate, sample, log and backfill test pit	
Pavement/Bridge Deck Coring						
Core Diameter		in.			Includes all equipment, personnel, and material to core and patch pavement/bridge deck and either handle or dispose of core.	
		each		\$0		
Core Diameter		in.				
		each		\$0		
Truck/ATV/Trailer Mounted Rotary Drilling					Includes all methods of rotary drilling on land, except skid rig	
Number of Drill Rig Days	2	days				
Total Soil Footage (ft)	80	40	ft/day			
Total Rock Footage (ft)	5	3	ft/day			
No Sampling		feet		\$0		
5-ft SPT		feet	\$21.00	\$0		
2.5-ft SPT	80	feet	\$23.00	\$1,840		
Continuous SPT		feet	\$33.00	\$0		
Undisturbed Samples		each	\$110.00	\$0		
Rock Coring	5	feet	\$65.00	\$325		
Permanent Borehole Sealing	80	feet	\$9.00	\$720		
Skid Drilling						Includes press, preservation, transport, and extraction, minimum 50% recovery
Number of Drill Rig Days	2	days				
Total Soil Footage (ft)	0	0	ft/day			
Total Rock Footage (ft)	0	0	ft/day			
No Sampling		feet		\$0		
5-ft SPT		feet		\$0		
2.5-ft SPT		feet		\$0		
Continuous SPT		feet		\$0		
Undisturbed Samples		each		\$0		
Rock Coring		feet		\$0		
Permanent Borehole Sealing		feet		\$0		
Barge Drilling					Includes press, preservation, transport, and extraction, minimum 50% recovery	
Number of Drill Rig Days		days				
Total Soil Footage (ft)	0	0	ft/day			
Total Rock Footage (ft)	0	0	ft/day			
5-ft SPT		feet		\$0		
2.5-ft SPT		feet		\$0		
Continuous SPT		feet		\$0		
Undisturbed Samples		each		\$0		
Rock Coring		feet		\$0		
Permanent Borehole Sealing		feet		\$0		
Barge		days		\$0		
Other Exploratory Methods						Includes all costs associated with barge drilling access (permits, spuds, safety equipment, boats, tugs, etc.)
Method Description		days		\$0		
Method Description		days		\$0		
		days		\$0		
In-situ Testing					Includes all mobilization/demobilization, equipment, material, labor, travel, per diem, calibration, and data reduction	
Test:		days		\$0		
Test:		days		\$0		
		days		\$0		
Installation/Reading of Geotechnical Instruments					Excludes cost of drilling - present above. Includes all material and labor for installation	
Open Standpipe Piezometer		feet		\$0		
Monitoring Well		feet		\$0		
Inclinometer		feet		\$0		
Misc (describe)						
		each		\$0		
Instrument Readings		trips		\$0		
Subtotal				\$2,885		
Direct Costs						
Drill Crew Meals and Lodging				\$0		
				\$0		
Subtotal				\$0		
FIELD EXPLORATION TOTAL ALL PARTS				Total	\$3,735	

## LABORATORY TESTING

DATE: **December 30, 2021**

	Test	Test Method		Quantity	Unit	Unit Cost	Cost	Remarks	
		AASHTO	ASTM						
Soil Testing	Complete Classification	Multiple	Multiple	16	each	\$173	\$2,768	Includes Visual Description per SGE Section 602, T265, T88, T89, T90	
	Water Content Test and Visual Description	T265	D2216	32	each	\$14	\$448	Visual Description per SGE Section 602	
	Particle Size Analysis - Sieve Only	T88	D422	3	each	\$72	\$216	As modified per SGE Section 603.3	
	Particle Size Analysis - Sieve and 2-hour Hydrometer	T88	D422	0	each	\$99	\$0	As modified per SGE Section 603.3	
	Liquid Limit Test	T89	D4318	0	each	\$44	\$0	As modified per SGE Section 603.3	
	Plastic Limit Test	T90	D4318	0	each	\$41	\$0	As modified per SGE Section 603.3	
	Organic Content by Loss on Ignition	T267	D2974	0	each	\$54	\$0		
	Soil Unconfined Compression Test	T208	D2166	0	each	\$86	\$0		
	Unconsolidated-Undrained Triaxial Compression Test	T296	D2850	0	1 point	\$191	\$0		
	Consolidated-Undrained Triaxial Compression Test (with pore pressure measurement)	T297	D4767	0	3 points	\$1,004	\$0		
	One-Dimensional Consolidation Test	T216	D2435	0	each	\$575	\$0		
	Specific Gravity Test	T100	D854	0	each	\$69	\$0		
	Direct Shear Test	T236	D3080	0	3 points	\$552	\$0		
	Sulfate Content in Soils, Colorimetric Method	ODOT S1122	NA	8	each	\$107	\$856		
	Misc. (identify test)			0			\$0		Identify the test and test method for any tests not listed above
	Misc. (identify test)			0			\$0		Identify the test and test method for any tests not listed above
Subtotal							\$4,288		
Rock Testing	Unconfined Compressive Strength of Intact Rock Core Specimen	NA	D7012, Method C	0	each	\$104	\$0		
	Slake Durability of Shales and Similar Weak Rocks	NA	D4644	0	each	\$240	\$0		
	Determination of the Point Load Strength Index of Rock	NA	D5731	0	each	\$69	\$0		
	Elastic Moduli of Intact Rock Core Specimens in Uniaxial Compression	NA	D7012, Method D	0	each	\$278	\$0		
	Misc. (identify test)			0			\$0	Identify the test and test method for any tests not listed above	
	Misc. (identify test)			0			\$0	Identify the test and test method for any tests not listed above	
	Misc. (identify test)			0			\$0	Identify the test and test method for any tests not listed above	
	Subtotal							\$0	
LABORATORY TESTING TOTAL ALL PARTS							\$4,288		

**GEOTECHNICAL EXPLORATION PROPOSAL****DIRECT COSTS**

C/R/S : ERI-CR0500-1.37

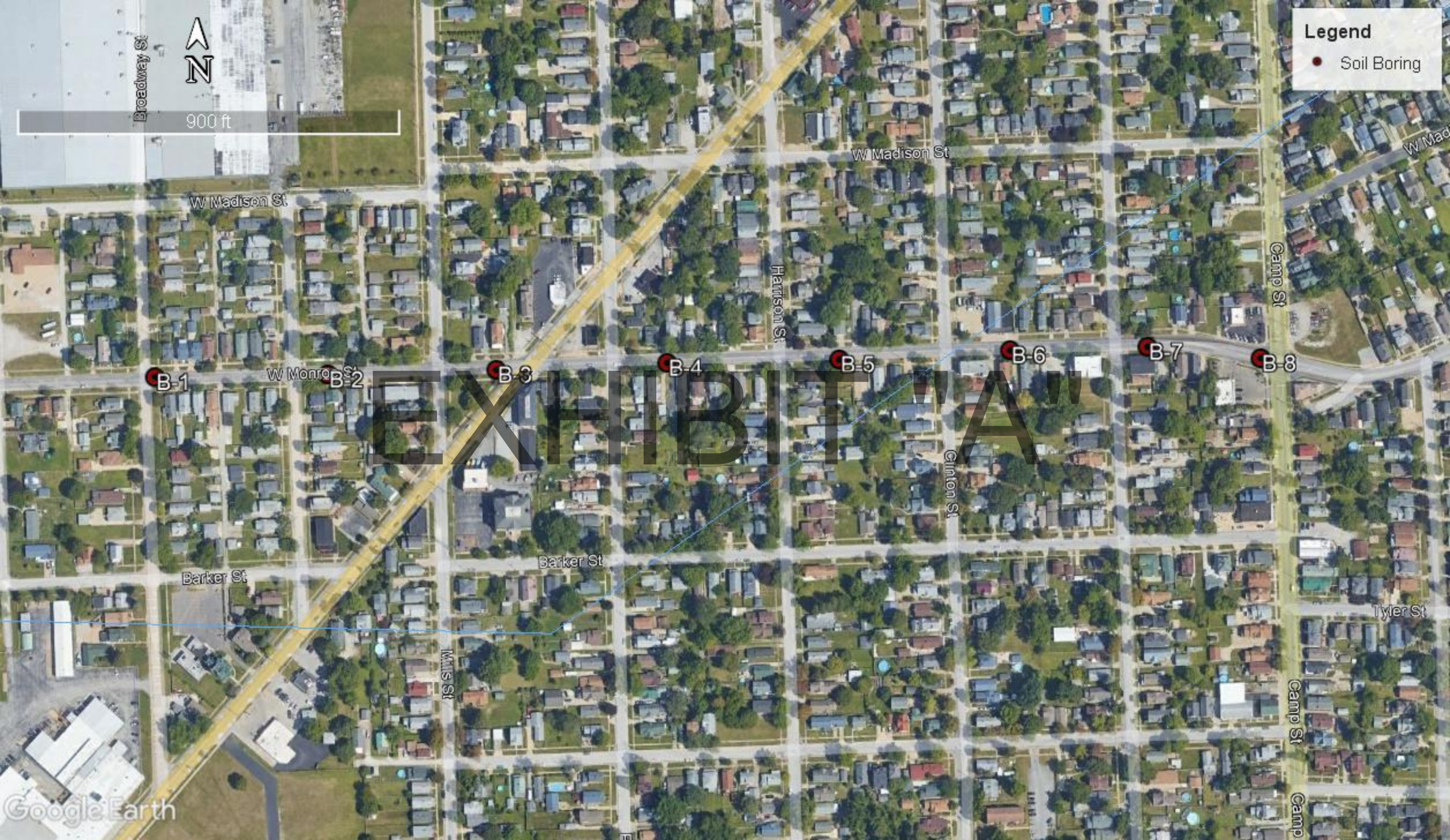
PID NO.: PID # 113957

CONSULTANT: CTL Engineering, Inc.

DATE: December 30, 2021

Task	Quantity	Unit	Unit Cost	Cost
<b>RECONNAISSANCE AND PLANNING</b>				
Mileage	125		\$0.52	\$65.00
(describe)	0		\$0.00	\$0.00
(describe)	0		\$0.00	\$0.00
<b>Subtotal</b>				<b>\$65.00</b>
<b>FIELD COORDINATION</b>				
<b>Field Coordination</b>				
Rock Core Setup	1	each	\$115.00	\$115.00
Mileage	375	mile	\$0.52	\$195.00
Permits	0	each	\$0.00	\$0.00
Dozer and Operator (site access and restoration)	0	hour	\$0.00	\$0.00
Site Restoration (not including Dozer)	0	site	\$0.00	\$0.00
Railroad Permits	0	each	\$0.00	\$0.00
Other (describe)	0		\$0.00	\$0.00
Other (describe)	0		\$0.00	\$0.00
<b>Subtotal</b>				<b>\$310.00</b>
<b>Logging (If drilling is subcontracted)</b>				
Meals and Lodging	0	day	\$0.00	\$0.00
Mileage	0	mile	\$0.52	\$0.00
Other (describe)	0		\$0.00	\$0.00
<b>Subtotal</b>				<b>\$0.00</b>
<b>Subtotal</b>				<b>\$310.00</b>
<b>GEOTECHNICAL EXPLORATION REPORT</b>				
(describe)	0		\$0.00	\$0.00
(describe)	0		\$0.00	\$0.00
<b>Subtotal</b>				<b>\$0.00</b>
<b>DIRECT COSTS TOTAL ALL PARTS</b>			<b>Total</b>	<b>\$375.00</b>





**Legend**

- Soil Boring

900 ft

North Arrow

EXHIBIT "A"

B-1

B-2

B-3

B-4

B-5

B-6

B-7

B-8

Broadway St

W Madison St

W Madison St

Harrison St

Clinton St

Camp St

W Madison St

Barker St

Barker St

Tyler St

Wills St

Camp St

Camp St