

**Lakefront Trail, Phase 2 - Revetment**  
**At 775 Hardy Road, Painesville, Ohio 44077**  
KS Project No. 21197-2

**BID DATE:** May 8, 2024 at 10:00am

**DATE OF ADDENDUM:** May 3, 2024

**ADDENDUM NUMBER:** 02

**TO THE DRAWINGS AND SPECIFICATIONS FOR:**

*Lake Metroparks, Lakefront Trail, Phase 2 - Revetment*

**TO ALL BIDDERS:**

THIS ADDENDUM, MODIFYING THE ORIGINAL CONTRACT DOCUMENTS, SHALL BE TAKEN INTO ACCOUNT IN PREPARING PROPOSALS, AND IS HEREBY MADE A PART OF THE CONTRACT DOCUMENTS.

---

**CLARIFICATIONS AND QUESTIONS**

1. Is Bid Item 04: Demolition and Debris Removal for the excavation of the revetment stone?
  - a. The line item is for the removal of any beach debris on-site, the excavation of the existing beach to place the revetment shall be incidental to the stone unit price.
2. Regarding Addendum 1, Insurance Requirements:
  - a. Item 3: Professional Liability Insurance does not apply to bidding Contractors. Pollution Liability Insurance applies, \$1,000,000 occurrence; \$4,000,000 aggregate.

**SPECIFICATIONS**

02 21 00 Construction Surveying (Removed section 3.1, part K)  
02 93 00 Site Restoration (Removed section 2.4 entirely, no topsoil required)

**DRAWINGS**

No changes to the Drawings have been made.

**END OF ADDENDUM**

---

Preparer: KS Associates, Inc.

**ATTACHMENTS**

1. 21197-2 Pre-Bid Meeting Sign-In Sheet
2. 21197-2 Updated Specifications

**SECTION 02 21 00**

**CONSTRUCTION SURVEYING**

**PART 1 - GENERAL**

**1.1 WORK INCLUDED**

- A. The work under this Section includes providing all labor, materials, tools and equipment necessary to perform all surveying and staking necessary for the completion of the Project in conformance with the Drawings and Specifications and standard engineering and surveying practices, including all calculations required to accomplish the WORK.
- B. The work shall include the staking, referencing and all other actions as may be required to preserve and restore land monuments and property corners which are situated within the Project area, and to establish monuments as shown on the Drawings.

**1.2 RELATED WORK**

- A. Section 01 60 00 – Special Contract Requirements
- B. Section 31 23 00 – Excavation, Grading, and Slope Preparation
- C. Section 35 31 19 – Armor Stone Revetment

**1.3 CONSTRUCTION SURVEY AND STAKING TOLERANCES**

- A. The Contractor shall provide construction surveying and staking to the tolerances specified below:

Type	Horizontal Tolerance (feet)	Vertical Tolerance (feet)
Stakes	0.01	N/A
All other surveying above water	0.05	0.10
All other surveying below water	0.20	0.20

**1.4 SURVEY DATA FORMAT**

- A. All survey data shall be provided in the coordinate system, datums, and units listed on the Contract Drawings. Nevertheless, the Contractor shall note the coordinate system, datums, and units with each submittal of survey data to the Engineer.
- B. All survey data shall be provided in AutoCAD 2020 \*.DWG format, AutoCAD 2019 \*.DWG format, or AutoCAD 2018 \*.DWG format. Where submittals require the submission of coordinate points (i.e.: topographic survey points, pile locations, etc.), points shall also be provided in plain-text or Excel format as a comma separated value (\*.CSV) file.

## PART 2 - PRODUCTS

### 2.1 GENERAL

- A. The Contractor shall furnish, at his own expense, all such stakes, spikes, steel pins, templates, platforms, equipment, tools and material and all labor as may be required in laying out any part of the work.

## PART 3 - EXECUTION

### 3.1 GENERAL

- A. All surveying shall be done by, or under the direction of, a registered Professional Surveyor licensed in the State of Ohio.
- B. The Owner or Engineer will supply information relative to the approximate locations of monuments and corners, but final responsibility for locations, referencing, and restoration shall rest with the Contractor.
- C. In the event the Contractor does not replace the survey monuments and property corners disturbed by the Contractor's operations, the Owner may, after first notifying the Contractor, replace the monuments in question. The cost of such replacements shall be deducted from payments to the Contractor.
- D. The Contractor shall provide the Engineer with a copy of all surveyors' notes, if requested by the Engineer, prior to each Pay Request that includes Construction Surveying as a payment item.
- E. The Contractor shall provide the Owner with a copy of all surveyors' notes, prior to the request for final payment, and include the information on the record drawings.
- F. The Contractor shall obtain all information necessary for as-built plan production, from actual measurements and observations made by its own personnel, including subcontractors, and submit this information to the Engineer.

- G. The Contractor shall furnish, at his own expense, all such stakes, spikes, steel pins, templates, platforms, equipment, tools and material and all labor as may be required in laying out any part of the work. It shall be the responsibility of the Contractor to maintain and preserve all stakes and other markers established by him until authorized to remove them. If any of the control points are destroyed by or through the negligence of the Contractor prior to their authorized removal, they shall be replaced by the Contractor. The Engineer may require that work be suspended if at any time when horizontal and vertical control points established at the site by the Contractor are not reasonably adequate to permit checking the work. Such suspension will be withdrawn upon proper placement of the control points.
- H. The Contractor shall perform all staking necessary to delineate clearing and/or grubbing limits; all cross sections necessary for determination of excavation and embankment quantities, including intermediate and/or remeasure cross sections as may be required; all slope staking; all staking of piles, sheet piles, and walkways, including the necessary checking to establish the proper location and grade to best fit the conditions on site; the setting of such finishing stakes as may be required; the staking of right-of-way; the staking, referencing and other actions as may be required to preserve or restore land monuments and property corners; and all other staking necessary to complete the project.
- I. Field notes shall be kept in standard bound notebooks in a clear, orderly and neat manner, consistent with standard engineering and surveying practices. The Contractor's field books shall be available for inspection by the Engineer at any time.
- J. All field survey notes, including those which become source documentations from which quantities for payment are computed, shall be recorded by a notekeeper furnished by the Contractor. The notekeeper shall be thoroughly familiar with generally accepted standards of good survey notekeeping practice.
- ~~K. A minimum of ten days prior to installation, unless otherwise approved by the Engineer, the Contractor shall stake the location of the new electric conduits, fire suppression mains, and fire suppression standpipe conduits. Each stake shall be a surveyor's lathe marked as to the type of service and placed at the right-of-way line at the locations shown on the Drawings.~~

END OF SECTION

## **SECTION 02 93 00**

### **SITE RESTORATION**

#### **PART 1 – GENERAL**

##### **1.1 SECTION INCLUDES:**

- 1.1.1 The work shall consist of furnishing all labor, equipment and material necessary to finish grade, topsoil, seed, mulch, establish and maintain vegetation for the areas as specified herein.
- 1.1.2 All disturbed areas shall be top soiled and vegetated.
- 1.1.3 The contractor shall be responsible for all damages caused by construction of the project and shall be responsible for restoring any damaged areas to their original condition (before construction started).
- 1.1.4 Installation of landscaping consisting of woody materials, i.e., bushes, shrubs, trees, plantings, etc. are not a part or required in this contract.

##### **1.2 RELATED SECTIONS:**

- 1.2.1 Section 31 23 00 Excavation, Grading and Slope Preparation

##### **1.3 SUBMITTALS:**

- 1.3.1 The Contractor shall submit a complete materials list of items proposed for the work and a description of how the work will be completed.
- 1.3.2 The Contractor shall submit seed certifications for all bags used in the project.

##### **1.4 DELIVERY, STORAGE AND HANDLING:**

- 1.4.1 Deliver grass and wildflower seed (if required) in original containers showing analysis of seed mixture, percentage of pure seed, year of production, net weight, date of packaging, and location of packaging. Damaged packages are not acceptable.

##### **1.5 MAINTENANCE:**

- 1.5.1 Maintain vegetated surfaces and supply additional topsoil where necessary, including areas affected by erosion.
- 1.5.2 Replant damaged grass areas showing root growth failure, deterioration, bare or thin spots, and eroded areas.
- 1.5.3 Water seeded areas as needed to promote growth as specified herein.

#### **PART 2 – PRODUCTS**

## **2.1 SEED MIXTURE:**

2.1.1 Use ODOT Item 659 Class 1 Lawn Mixture seed for grass.

## **2.2 MULCH:**

2.2.1 Mulching material: Oat or wheat straw, reasonably free from weeds, foreign matter detrimental to plant life, and in a dry condition.

2.2.2 Establishment blanket: Uniform open weave jute matting; excelsior matting; erosion control mulching fabric consisting of knitted construction of yard interwoven with strips of biodegradable paper; or organic fiber protective fiber mat consisting of half-inch layer of chopped straw, knitted into mat with thin netting of biodegradable polypropylene. Include 10% overlap.

## ~~**2.4 TOPSOIL:**~~

~~2.4.1 Minimum of 3" thickness, unless noted otherwise. All fill material shall be from the excavation and regrading.~~

## **PART 3 – EXECUTION**

### **3.1 EXAMINATION:**

3.1.1 The Contractor shall not begin work in this section until the final grading has been approved by the Engineer.

### **3.2 PREPARATION:**

3.2.1 The Contractor shall test the soil for the appropriate pH. The test results shall be submitted to the Engineer. New material shall be within 1 PH of the existing bluff material.

3.2.2 If needed, the Contractor shall apply agricultural liming material (amendments) as specified in Bulletin 472 "Agronomy Guide", published by the Cooperative Extension Service, The Ohio State University, buy at the OSU CFAES eStore **Publication Date:** April, 2017

### **3.3 APPLICATION GRASS SEED:**

3.3.1 The seeding shall be completed within three days after completion of final grading or as soon thereafter as conditions are favorable. Seeding shall occur between March 1 and October 30. Between October 30 and March 1, apply temporary seed according to ODOT Item 832.

3.3.2 The seedbed shall be prepared by pulverizing and breaking up the soil to a minimum depth of two inches with a disk harrow, drag harrow, spike tooth harrow or similar tool. All rocks over two inches in diameter, clods and undesirable material that would interfere with seeding operation shall be removed.

- 3.3.3 The grass seed shall be drilled or broadcast uniformly over the seedbed at a rate of 220 pounds per acre (5 pounds per 1,000 square feet) using methods and equipment acceptable to the Engineer. For wildflower seeding, plant at the rate specified by the manufacturer. The seeded area shall be passed over with a cultipacker or similar tool to help cover more seed and improve seeding establishment. Application of grass seed and fertilizer at the same time, in the same machine is not permitted.
- 3.3.4 Seed sowing is not permitted immediately following rain, when the ground is too dry, or during windy periods.
- 3.3.5 The approved mulch shall be applied over the seeded area at a rate of 2 tons per acre (one bale per 1,000 square feet) for straw. Hydro mulching will not be permitted.
- 3.3.6 The Contractor shall seed and mulch all disturbed areas.
- 3.3.7 Seeded areas shall be watered as necessary to promote good growth during the germination and establishment period. During the establishment period the Contractor shall water a minimum of one inch over the seeded area two times per week. In dry weather, more frequent watering will be required to provide a stand of grass.

#### **3.4 ADJUSTING:**

- 3.4.1 Any vegetated areas which are found to not have an adequate growth of cover during the first year shall be re-seeded as soon as weather conditions permit, at no additional cost to the Owner.

#### **3.5 INSTALLATION:**

- 3.5.1 The Contractor shall secure the work area and protect the vegetated areas until vegetation is accepted.

### **PART 4 – PAYMENT**

#### **4.1 PAYMENT:**

- 4.1.1 Payment for all work performed under this Section will be by lump sum bid price for Site Restoration.
- 4.1.2 Upon acceptable seeding, fertilizing and mulching phases of work as approved by the Engineer, fifty percent payment shall be made to the Contractor based on the division of contract price submitted.
- 4.1.3 Watering - Thoroughly water all permanent seeded areas (Classes 1 to 6) after the seed has germinated. Apply a total rate of 300 gallons per 1000 square feet in at least 2 applications spread over 7 days. Apply the water using a hydro-seeder or a water tank under pressure with a nozzle that produces a spray that will not dislodge the mulch material.

Perform a secondary water application between 7 and 10 days after the primary applications. If 1/2-inch (13 mm) or greater of rainfall has occurred within the first 7-day period, the Contractor may delay or omit the secondary application, depending on weather conditions.

4.1.4 Lime application per testing and will be paid as incidental to site restoration.

4.1.4 Upon established grass as approved by the Engineer, the remaining fifty percent payment based on the division of contract price shall be made to the Contractor.

**END OF SECTION**





# Pre-Bid Meeting Attendance Sheet

PROJECT NAME: Lakefront Trail Phase II Revetment (2024-032)

COMPANY NAME / ADDRESS	CONTACT NAME	PHONE	EMAIL
Mark Haynes Construction	Ted Stokowski	440 387 2139	Ted@MarkHaynesConstruction.com
MHC	Dave Shafar	716 633 9348	
Shoreline <del>Contractors</del> Contractors	Justin Bingham	440-222-8058	justinbingham@shorelinecontractors.com
Waleed ALABSI K.W.	KWOTHIO CON.	440-454-2954	
Great Lakes Crushing	Kaitlyn Szeker	440 867 8023	Kszeker.gic@gmail.com
	Rick Burrows	440 749 9596	Tburrows.gic@gmail.com
Geo Grubbe	Larry Fields	419-261-1240	Lfields@GeoGrubbeCo.com
Huffman Egypt	Rich Quandt	440 952 2770	huffman2730@aol.com
KS Associates	Mark Cencer	419-239-5135	cencer@ksassociates.com