

THREE MILE LAKE  
RESTORATION PHASE 2  
UNION COUNTY, IOWA  
PROJECT NUMBER: 19-04-88-02

July 14, 2023

This Addendum is issued to modify, explain or correct the original Drawings and Specifications, and is hereby made a part of the Contract Documents. Please attach this Addendum to the Project Manual in your possession. Insert the number and issue date of this Addendum in the blank space provided on the Proposal Form.

Specifications:

- A. 02275, Riprap – paragraph 2.1 (G) regarding soundness losses shall be omitted from this project.
- B. 02445, Barbed Wire Fences – This specification was inadvertently added to the Table of Contents, but does not apply to this project. Please disregard this reference.
- C. 05500, Metal Fabrications – This specification was inadvertently left out of the project manual. Attached is the missing specification.

Question and Answers:

1. **Q.** Do Davis-Bacon Provisions apply to this project?  
**A.** Yes
2. **Q.** Item 22 Water Handling – Per the notes, this item includes drainage and dewatering for BMP 15, BMP 16, and BMP 20. Where are 15 and 16 and what are we dewatering them for? I don't see them shown anywhere in the plans?  
**A.** The inclusion of BMP 15 and BMP 16 is a typo. Item 22 Water Handling is only associated with BMP 20.
3. **Q.** Are all the logs available on site for the Hardwood Logs (item 69). If so, will they be delivered to the installation location or do I need to go find them and bring them to the site?  
**A.** Trees will need to be cleared for construction and those removed of sufficient size should be reused for the x-vane. If hardwood species are not immediately available, other species of similar size may be substituted as directed by the engineer.
4. **Q.** How are we able to get to STA 820+00 to install the armoring? This is going to require a significant amount of tree clearing or something very extravagant from the lake unless there is a different way into this location?  
**A.** It is intended that the contractor accesses the lake via locations identified on sheet A.3 and utilizes the lake bottom.
5. **Q.** Can the limestone material be quarried in the winter time? Previous projects did not allow this but I didn't see anything in the specs that says we can't.  
**A.** We do not have restrictions on when the material can be quarried as long as it meets our spec.
6. **Q.** The portion of dike at BMP 20 that is being removed to drain the pond and install a pipe has verbiage in an item about protecting existing utilities. Are there some utilities in this dike that we need to be aware of?  
**A.** We do not have reason to believe there are utilities in the embankment.
7. **Q.** Can Shoreflex be substituted for Flexamat (line items 10, 11, 18, and 39)?

**A.** Shoreflex with Double Net Coconut (DNC) is an approved substitute for Standard Flexamat (line item 10 only). Shoreflex with a 10 oz. Non-Woven Backing is not an approved substitute for Flexamat 10NW, because the non-woven backing of the Shoreflex is not bonded to the concrete blocking.

**SECTION 05500  
METAL FABRICATIONS**

**PART 1 GENERAL**

**1.1 SECTION INCLUDES**

A. Shop fabricated ferrous metal items, galvanized.

**1.2 RELATED SECTIONS**

A. All applicable sections.

**1.3 MEASUREMENTS AND PAYMENTS**

A. Section 01250 - Measurement and Basis of Payment.

**1.4 REFERENCES**

A. ASTM A36 – Structural Steel

B. ASTM A153 – Zinc Coating (Hot-Dip) on Iron and Steel Hardware.

C. ASTM A283 – Carbon Steel Plates, Shapes, and Bars.

D. ASTM A307 – Carbon Steel Bolts and Studs, 60,000 PSI Tensile Strength.

E. ASTM A325 – High Strength Bolts for Structural Steel Joints.

F. SSPC – Steel Structures Painting Council.

G. ASTM A53 - Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless

H. ASTM A595 - Steel Tubes, Low-Carbon or High-Strength Low-Alloy, Tapered for Structural Use

I. ASTM A392 Specification for Zinc-Coated Steel Chain-Link Fence Fabric

J. ASTM A780 Standard Practice for Repair of Damaged and Uncoated Areas of Hot-Dip Galvanized Coatings

K. ASTM F552 Standard Terminology Relating to Chain Link Fencing

L. ASTM F567 Standard Practice for Installation of Chain Link Fence

M. ASTM F626 Specification for Fence Fittings

N. ASTM F1083 Specification for Pipe, Steel, Hot-Dipped Zinc-Coated (Galvanized) Welded, for Fence Structures

## **1.5 SUBMITTALS**

A. Submit under provisions of Section 01300.

B. Shop Drawings: Indicate profiles, sizes, connection attachments, reinforcing, anchorage, size and type of fasteners, and accessories. Include erection drawings, elevations, and details where applicable.

## **1.6 FIELD MEASUREMENTS**

A. Verify that field measurements are as indicated on Drawings.

## **PART 2 PRODUCTS**

### **2.1 MATERIALS**

A. Steel Pipes, Angles, Angle Irons, Plates and Rods: ASTM A53, Solid Grade B, Schedule 40, Stainless or Galvanized Steel

B. Anchor Bolts: Stainless Steel or ASTM A307 galvanized to ASTM A153 for galvanized component. Material must be consistent with object that is being bolted.

C. Bolts, Nuts, Brackets and Washers: Stainless Steel or ASTM A325 galvanized to ASTM A153 for galvanized component. Material must be consistent with object that is being bolted.

D. Shop and Touch-up primer for galvanized surfaces: SSPC 20, Type I, inorganic.

E. Chemical Anchors: Power-fast epoxy injection gel (warm weather) or acrylic-100 anchor (cold weather) as manufactured by Powers Fastener and Distributed by Concrete Industries, Inc., or approved equal.

### **2.2 FABRICATION**

A. Fit and shop assemble in largest practical sections, for delivery to site.

B. Fabricate items with joints tightly fitted and secured.

C. Continuously seal joined members by continuous welds along all adjoining edges.

D. Grind exposed joints flush and smooth with adjacent finish surface. Make exposed joints butt tight, flush, and hairline. Ease exposed edges to small uniform radius.

E. Exposed Mechanical Fastenings: Screws or bolts; unobtrusively located; consistent with design of component, except where specifically noted otherwise.

F. Supply components required for anchorage of fabrications. Fabricate anchors and related components of same material and finish as fabrication, except where specifically noted otherwise.

## **2.3 FINISHES**

A. Clean surfaces of rust, scale, grease, and foreign matter prior to finishing.

B. Smooth any rough or sharp edges or areas.

C. Coat bare metal edges or areas with touch up primer for galvanized surfaces.

## **PART 3 EXECUTION**

### **3.1 EXAMINATION**

A. Verify that field conditions are acceptable and are ready to receive work.

B. Beginning of installation means erector accepts existing conditions.

### **3.2 PREPARATION**

A. Supply items required to be cast into concrete with setting templates, to appropriate sections.

### **3.3 INSTALLATION**

A. Install items plumb and level, accurately fitted, free from distortion or defects.

B. Allow for erection loads, and for sufficient temporary bracing to maintain true alignment until completion of erection and installation of permanent attachments.

C. Obtain Engineer approval prior to site cutting or making adjustments not scheduled.

D. After erection, prime welds, abrasions, and surfaces not shop primed, except surfaces to be in contact with concrete.

E. Install necessary and required accessories.

F. Check installed fabrications for proper and easy operation where applicable.

### **3.5 ERECTION TOLERANCES**

A. Maximum Variation From Plumb: ¼ inch.

B. Maximum Offset from True Alignment:  $\frac{1}{4}$  inch.