

**HEADS CREEK RESERVOIR DAM REHABILITATION  
ADDENDUM NO. 4  
Issued March 21, 2022**

City of Griffin  
Solicitation Number: 22-007

Sealed Bids will be received at the City Manager’s Conference Room, 3<sup>rd</sup> Floor, 100 South Hill Street, Griffin, Georgia 30223 until 2:00 p.m., local time, March 29, 2022.

Receipt of this addendum, and all other addenda, should be acknowledged as part of your Bid (refer to Section 00 40 00 Bid Form). Failure to acknowledge receipt of the addenda may result in rejection of the Bid. This addendum forms a part of the Contract Documents.

The following changes, clarifications, additions, revisions, and/or deletions are hereby made a part of the Contract Documents for the aforementioned Project as fully and completely as if the same were fully set forth therein:

**A. GENERAL**

1. The bidder question period has ended.

**B. RESPONSES TO QUESTIONS RECEIVED FROM MARCH 11, 2022, THROUGH MARCH 15, 2022:**

1. Can you add a line (or we can just make a note) on the bid form for any clarifications in specific regards to the bid alternate 1? In order to keep the lake level at full pond, we may need to stipulate some conditions that we need from the EOR and Owner.

**Response: Bidders may add a narrative to the Bid Form on a separate page.**

2. Would the owner consider the qualifications of Contractors for projects involving high hazard dam safety in surrounding states as opposed to exclusively Georgia Safe Dams projects?

**Response: Bidders should provide the information requested in Section 00 30 00 Statement of Bidder’s Qualifications. The project experience requested in Items 25, 26, & 27 of the referenced section may include projects in Georgia and other states.**

3. Would the owner consider assigning a value to “Engineering and Inspection” charges and increasing liquidated damages accordingly instead of having liquidated damages and unknown special damages? As this unquantifiable amount is hard to define in our risk/contingency matrix.

**Response: The value of the Special Damages can fluctuate depending on the type of work and required staffing. Therefore, we are unable to predetermine the amount.**

4. How close together can the Raw Water Pipe and Drawdown Pipe be, as shown on detail 2/C62?

**Response: The centerline-to-centerline distance between pipes is 6-1/2 ft.**

5. Is it acceptable to drill and epoxy dowels for the Chute Blocks ( detail 5/S21) and Baffle Piers (detail 6/S21) in lieu of casting them into the slab below?

**Response: Post-installed dowels are not acceptable. Dowels must be cast into the bottom slab as shown.**

6. Note C-3 on sheet S00, states "CLASS A1 CONCRETE (4,500 PSI): NORMAL WEIGHT STRUCTURAL CONCRETE TO BE USED IN ALL STRUCTURES QUALIFYING AS ENVIRONMENTAL CONCRETE STRUCTURES THAT ARE DESIGNED IN ACCORDANCE WITH ACI 350 INCLUDING PUMP STATIONS, TANKS, BASINS, PROCESS STRUCTURES, AND ANY STRUCTURES CONTAINING FLUID OR PROCESS CHEMICALS OR OTHER MATERIALS USED IN TREATMENT PROCESS". It is our understanding that the spillway chute, spillway chute endwalls, inlet structure, and impact basin all qualify as Environmental Concrete Structures per ACI 350. Is water testing per ACI 350 strictly for containment structures such as the inlet well and impact basin? Or does water testing also apply to the spillway chute and spillway chute endwalls?

**Response: The listed structures qualify as Environmental Concrete Structures.**

**Leakage testing will NOT be required for the Chute Spillway, Chute Spillway Endwalls, Raw Water Intake, and Impact Basin.**

7. Specification 03 11 00 subsection 3.08.B Ambient Temperature Chart has extended durations for form removal, can forms be removed earlier than listed on the chart to maintain formwork cycling production and schedule?

**Response: The times given in the referenced table are minimums for the structural elements listed and may not be reduced.**

8. (Reference: Book 1 – Bid Submittal Documents, Page 00 40 00-10) Please confirm that Item C on the bid form, "Bid Alternate Amount" is an additive or deductive amount to both the base bid (Item A) and unit price bid (Item B) as listed on the bid form.

**Response: Alternate Bid Item No. 1 (Bid Form Item C) is an additive or deductive amount associated with the Project. If selected, the amount associated with Alternate Bid Item No. 1 will adjust the Lump Sum Base Bid Amount.**

**As stated at the bottom of Page 00 40 00 – 12: Basis of award shall be any combination of the LUMP SUM BASE BID, UNIT PRICE ITEMS, and ALTERNATE BID ITEM AMOUNTS, at the sole discretion of the Owner.**

9. (Reference: Book 1 – Bid Submittal Documents, Page 00 40 00-11) Since Bid Item 5, “Outlet Channel Riprap Protection Additional Area” is being paid by the square yard please confirm that the depth will be 36” as depicted in the drawing details.

**Response: Bidders should reference Detail 4 on Drawing C61 for the materials and thicknesses associated with Unit Price Bid Item 5 – Outlet Channel Riprap Protection Additional Area.**

10. (Reference: Plan Sheet ESC07) Please confirm that all silt fencing shall be steel posts with woven wire backing and not the C-Pop system with wooden posts per the detail on plan sheet ESC07.

**Response: All Silt Fencing shall be Type “C” for Sensitive Areas (Sd1-S).**

11. (Reference: Plan Sheet C60, Detail 6/C60) This detail notes the seepage drain outlet pipe as “Class 350” but according to the Foundation Drainage System Specifications this pipe should be thickness Class 54. Please verify what pipe is required at these locations.

**Response: The Ductile Iron Pipe for the Seepage Drain Outlets shall be minimum Thickness Class 54 in accordance with the referenced specification.**

12. Are “as-built” drawings available for the existing reservoir and structures. If so, can they be distributed to the prospective bidders?

**Response: We are unaware of “as-built” drawings for the original dam construction. The available Original Construction Drawings are included in Book 3 – Appendix.**

13. Please confirm that Specification Section 03 60 00, Grout does not apply to the grout filling of the existing box culvert and inlet riser.

**Response: Correct. The referenced specification does not apply to the abandonment of the Existing Box Culvert or Existing Drawdown and Raw Water Intake Structure.**

14. After quite a bit of evaluation on the bid alternate no. 1, we do not see a way to achieve the request within the 1 year calendar duration. Will additional time be allowed for the substantially different cofferdam and control of water scheme to be installed?

**Response: The Contract Time to achieve Substantial Completion and Final Payment is extended 180 calendar days for the Alternate Bid Item.**

**The Bid Form will be Reissued through this Addendum as indicated below in Section C.**

15. In the instructions to bidders, 13.06 The following listed documents are the Bid Submittal Document and shall be submitted with each Bid. Each document shall be executed in the manner described in Paragraph 13.03 unless another manner is indicated.
- A. Book 1 Bid Submittal Document is listed as the sole document to be submitted.

In Book 2 is the EPA DBE Compliance. Are any forms from the DBE Compliance section required at the time of bid? If yes, please specify which form(s) are required with the Bid Submittal Document?

**Response: No.**

16. The existing riprap on the project is noted as “to be removed as needed stockpile for reuse” – what is the depth of riprap for these areas for bidding purposes? Alternatively, is there a volume quantity for reusable riprap that can be used for bidding purposes?

**Response: The thickness of the existing Riprap Wave Protection has not been determined. The intent is to reuse the existing riprap as Wave Protection on the upstream embankment.**

17. The Technical Memorandum Geotechnical Report – page 7, last note – suggests excavating alluvial soil down to the residual layer, cutting sheet pile at residual layer, and installing a keyway downstream of the existing sheet pile wall. A keyway is not shown in the cross-section plans. Is it the intent of the project to perform these tasks suggested by the geotechnical report or only excavate to the “undercut limits as recommended by engineer” shown on the cross sections and replace the excavated alluvium with appropriate fill material?

**Response: The referenced note only applied to the Principal Spillway’s Ogee Weir which is remaining in place and incorporated into the construction.**

18. Specification Section 31 35 33 Part 3.06.N states the open cells in the ACB system shall be backfilled with 57 stone. Plan sheet ESC04 shows Tp (Topsoil) and Ds3 (Permanent seeding) is to be placed in the areas occupied by the ACB. On the contrary, details on sheet C51 do not show topsoil on top of the ACB system. Please confirm that there is topsoil and permanent seed on top of the ACB (that will have its open cells backfilled with 57 stone). If this is not the case and the ACB system with 57 stone backfill is to be exposed and final elevation is 773.8, please revise drawing ESC04 and remove the Tp and Ds3 designation in these areas.

**Response: The ACB open cells shall be backfilled and compacted with Georgia DOT No. 57 Stone with the backfill extending slightly above the top surface of the ACB mats as indicated in the referenced specification section.**

**Drawing ESC04 will be Reissued through this Addendum as indicated below in Section E.**

19. The lead time for obtaining Ductile iron Pipe has been increased to as much as 9 months from submittal approval. Can the town consider delaying the Notice to Proceed date to accommodate the delayed delivery of DIP ?

**Response: The Owner considered the request and chose to maintain the Contract Time for the Base Bid.**

## C. BIDDING REQUIREMENTS

1. Book 1 – Bid Submittal Documents Section 00 40 00 Bid Form is Reissued through this Addendum. Below is a summary of the changes. Bidders should thoroughly review the section.

- i. Section 00 40 00 Bid Form Page 00 40 00 – 12: Alternate Bid Item No. 1.

- a. The following has been added to the Description:

The Contract Time to achieve Substantial Completion and Final Payment is extended 180 calendar days for the Alternate Bid Item.

## D. SPECIFICATIONS

1. No Modifications

## E. DRAWINGS

1. Erosion, Sedimentation, and Pollution Control Plans – Drawing ESC04 is Reissued through this Addendum. Below is a summary of the changes. Bidders should thoroughly review the plans.

- i. ESC04

- a. Annotations indicating the ACB are to be backfilled with topsoil and grassed have been removed.

- b. The following callout has been added for the ACB:

ACB OPEN CELLS SHALL BE BACKFILLED AND COMPACTED WITH GEORGIA DOT NO. 57 STONE.

THE BACKFILL SHALL EXTEND SLIGHTLY ABOVE THE TOP SURFACE OF THE ACB MATS.

SEE SPECIFICATION SECTION 31 25 33 – ARTICULATED CONCRETE BLOCK.

- c. The Pre-Runoff and Post-Runoff Coefficients were updated.

– End Addendum No. 4 –

**SECTION 00 40 00**  
**BID FORM**

**ARTICLE 1 – BID RECIPIENT**

1.01 This Bid is submitted to:

CITY OF GRIFFIN  
100 SOUTH HILL STREET  
GRIFFIN, GA 30223

1.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the price(s) and within the times indicated in this Bid and in accordance with the Bidding Documents.

**ARTICLE 2 – BIDDER’S ACKNOWLEDGEMENTS**

2.01 Bidder accepts all of the terms and conditions of the Advertisement for Bids and Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for the number of days after the Bid opening set forth in the Bidding Documents, or for such longer period of time that Bidder may agree to in writing upon request of Owner. Bidder will sign the Agreement and will furnish the required contract security, and other required documents within the time periods set forth in the Bidding Documents.

**ARTICLE 3 – BIDDER’S REPRESENTATIONS**

3.01 In submitting this Bid, Bidder represents that:

A. Bidder has examined and carefully studied the Bidding Documents, other related data identified in the Bidding Documents, if any, and the following Addenda, receipt of all of which is hereby acknowledged.

| <b>Addendum No.</b> | <b>Date Received</b> | <b>Addendum No.</b> | <b>Date Received</b> |
|---------------------|----------------------|---------------------|----------------------|
|                     |                      |                     |                      |
|                     |                      |                     |                      |
|                     |                      |                     |                      |
|                     |                      |                     |                      |

- B. Bidder has visited the Site and become familiar with and is satisfied as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
- C. Bidder is familiar with and is satisfied as to all Laws and Regulations that may affect cost, progress, and performance of the Work.
- D. Bidder has carefully studied all reports of explorations and tests of subsurface conditions at or contiguous to the Site and all drawings of physical conditions relating to existing surface or subsurface structures at or contiguous to the Site (except Underground Facilities), if any, that have been identified in Specifications and Contract Drawings as containing reliable “technical data”.
- E. Bidder has considered the information known to Bidder, information commonly known to contractors doing business in the locality of the Site, information and observations obtained from visits to the Site, the Bidding Documents, and the Site-related reports and drawings identified in the Bidding Documents with respect to the effect of such information, observations, and documents on:
  - 1. The cost, progress, and performance of the Work.
  - 2. The means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, including applying any specific means, methods, techniques, sequences, and procedures of construction expressly required by the Bidding Documents to be employed by Bidder.
  - 3. Bidder’s safety precautions and programs.
- F. Based on the information and observations referred to in Paragraph 3.01.E, Bidder does not consider that further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price(s) bid and within the times required and in accordance with the other terms and conditions of the Bidding Documents.
- G. Bidder is aware of the general nature of work (if any) to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.
- H. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, and discrepancies that Bidder has discovered in the Bidding Documents, and the written resolution thereof by Engineer is acceptable to Bidder.
- I. Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance of the Work for which this Bid is submitted.

## **ARTICLE 4 – BIDDER’S CERTIFICATIONS**

4.01 Bidder certifies that:

- A. This Bid is genuine and is not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any agreement or rules of any group, association, organization, or corporation.
- B. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid.
- C. Bidder has not solicited or induced any individual or entity to refrain from bidding; and
- D. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of the Paragraph 4.01.D.
  - 1. “Corrupt practice” means the offering, giving, or soliciting of anything of value likely to influence the action of a public official in the bidding process
  - 2. “Fraudulent practice” means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Owner, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition.
  - 3. “Collusive practice” means to scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish bid prices at artificial, non-competitive levels.
  - 4. “Coercive practice” means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

## **ARTICLE 5 – BASIS OF BID**

5.01 Bidder will complete the Work in accordance with the Contract Documents for the amount as listed on the Bid Form at the end of this Section. Total bid amount(s) shall be shown in words and numbers. In case of discrepancy, the bid amount shown in words will govern.

## **ARTICLE 6 – TIME OF COMPLETION**

6.01 Bidder agrees that the Work will be substantially complete and completed and ready for final payment in accordance with Paragraph 14.07 of the General



Conditions on or before the dates or within the number of calendar days indicated in the Agreement.

- 6.02 Bidder accepts the provisions of the Agreement as to liquidated and special damages in the event of failure to complete the Work within the Contract Times.

#### **ARTICLE 7 – ATTACHMENTS TO THIS BID**

7.01 The following documents are attached to and made a condition of this Bid:

- A. Book 1 Bid Submittal Document

#### **ARTICLE 8 – DEFINED TERMS**

8.01 The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders and the General Conditions and Supplementary Conditions.

**THIS SPACE LEFT BLANK INTENTIONALLY**

**ARTICLE 9 – BID SUBMITTAL**

9.01 This Bid submitted on \_\_\_\_\_, 20\_\_ by:

If Bidder is (pick one):

**INDIVIDUAL**

Name: \_\_\_\_\_  
(Typed or Printed)

By: \_\_\_\_\_  
(Individual's Signature)

Doing business as: \_\_\_\_\_  
License or Registration  
Number: \_\_\_\_\_

Business Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Phone No.: \_\_\_\_\_ Fax No.: \_\_\_\_\_

E-mail: \_\_\_\_\_

**PARTNERSHIP**

Partnership Name: \_\_\_\_\_

By: \_\_\_\_\_  
(Signature of General Partner - Attach evidence of authority to sign)

Name: \_\_\_\_\_  
(Typed or Printed)

License or Registration  
Number: \_\_\_\_\_

Business Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Phone No.: \_\_\_\_\_ Fax No.: \_\_\_\_\_

E-mail: \_\_\_\_\_

**CORPORATION**

Corporation Name: \_\_\_\_\_

\_\_\_\_\_  
(State of Incorporation)

By: \_\_\_\_\_  
(Signature – Attach evidence of authority to sign)

Name and Title: \_\_\_\_\_  
(Typed or Printed)

(CORPORATE SEAL)

Attest \_\_\_\_\_  
(Secretary)

License or Registration  
Number: \_\_\_\_\_

Business Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Phone No.: \_\_\_\_\_ Fax No.: \_\_\_\_\_

E-mail: \_\_\_\_\_

**LIMITED LIABILITY COMPANY**

By: \_\_\_\_\_  
(Firm Name)

\_\_\_\_\_  
(State of Formation)

By: \_\_\_\_\_  
(Signature of Member / Authorized to Sign)

\_\_\_\_\_  
(Printed or Typed Name and Title of Authorized to Sign)  
(Attach evidence of authority to sign.)

License or  
Registration Number: \_\_\_\_\_

Business Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Phone No.: \_\_\_\_\_ Fax No.: \_\_\_\_\_

E-mail: \_\_\_\_\_

**JOINT VENTURE**

Name of Joint Venture: \_\_\_\_\_  
First Joint Venturer  
Name: \_\_\_\_\_

By: \_\_\_\_\_  
(Signature of First Joint Venturer – Attach evidence of authority to sign)

Name (Typed or  
Printed): \_\_\_\_\_

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

Second Joint Venturer  
Name: \_\_\_\_\_

By: \_\_\_\_\_  
(Signature of First Joint Venturer – Attach evidence of authority to sign)

Name (Typed or  
Printed): \_\_\_\_\_

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

(Each joint venturer must sign. The manner of signing for each individual, partnership, corporation or limited liability company that is a party to the joint venture shall be in the manner indicated above).

License or  
Registration Number: \_\_\_\_\_

Business Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Phone and fax numbers and address for receipt of communications to joint venture.

Phone No.: \_\_\_\_\_ Fax No.: \_\_\_\_\_

E-mail: \_\_\_\_\_

**BID FORM**

**CITY OF GRIFFIN  
HEADS CREEK RESERVOIR DAM REHABILITATION**

|  |   | <i>Amount in Numbers</i> |
|--|---|--------------------------|
| <b>A</b>   | <b>LUMP SUM BASE BID AMOUNT:</b>                                  | \$                       |
| <b>B</b>   | <b>UNIT PRICE BID ITEM TOTAL AMOUNT:<br/>(See Schedule Below)</b> | \$                       |
| <b>C</b>   | <b>BID ALTERNATE AMOUNT:<br/>(See Schedule Below)</b>             | \$                       |
| <b>TOTAL BID AMOUNT (SUM OF A, B, &amp; C):</b>  |   | \$                       |
| <b>TOTAL BID AMOUNT (SUM OF A, B, &amp; C) in Words:</b><br><br>_____<br><br>_____                                   |   |                          |
| <b>BIDDER NAME:</b><br><br><br>  |   |                          |
| <small>NOTE: ALL SIGNATURES REQUIRED IN THE BID FORM MUST BE PROPERLY EXECUTED TO BE CONSIDERED A VALID BID.</small> |   |                          |

## UNIT PRICE BID ITEM SCHEDULE

| ITEM DESCRIPTION  |   | ESTIMATED QUANTITIES | UNITS        | UNIT PRICE | TOTAL AMOUNT |
|---|---|----------------------|--------------|------------|--------------|
| 1   | Undercut and Replacement                          | 8,000                | Cubic Yards  | \$         | \$           |
| 2   | Undercut  | 11,000               | Cubic Yards  | \$         | \$           |
| 3   | Offsite Disposal of Unsuitable Excavated Material | 8,000                | Cubic Yards  | \$         | \$           |
| 4   | Foundation Drain                                  | 500                  | Cubic Yards  | \$         | \$           |
| 5   | Outlet Channel Riprap Protection Additional Area  | 100                  | Square Yards | \$         | \$           |
| 6   | Onsite Borrow                                     | 12,000               | Cubic Yards  | \$         | \$           |
| 7   | Offsite Borrow                                    | 4,000                | Cubic Yards  | \$         | \$           |
| <b>TOTAL AMOUNT OF UNIT PRICE BID ITEMS (ITEM B IN BID FORM):</b> |   |                      |              |            | <b>\$</b>    |



**ALTERNATE BID ITEM NO. 1**

**Reservoir Maintenance and Raw Water Connection**

**DESCRIPTION:**

Alternate Bid Item No. 1:

Maintain the reservoir's normal operating level no lower than elevation 767.0, which is two feet below the current normal pool level, during the performance of the Work. Provide a continuous raw water connection (minimum 24-inch diameter) from the reservoir to the City of Griffin's Pump Station located directly downstream of the Project.

The Contract Time to achieve Substantial Completion and Final Payment is extended 180 calendar days for the Alternate Bid Item.

The additive amount shall be shown as a positive number.

**TOTAL ALTERNATE BID ITEM NO. 1 PRICE (in numbers):**  
**(ITEM C IN BID FORM)**  
**CIRCLE ONE: ADDITIVE or DEDUCTIVE**

\$

**TOTAL ALTERNATE BID ITEM NO. 1 PRICE (in words):**

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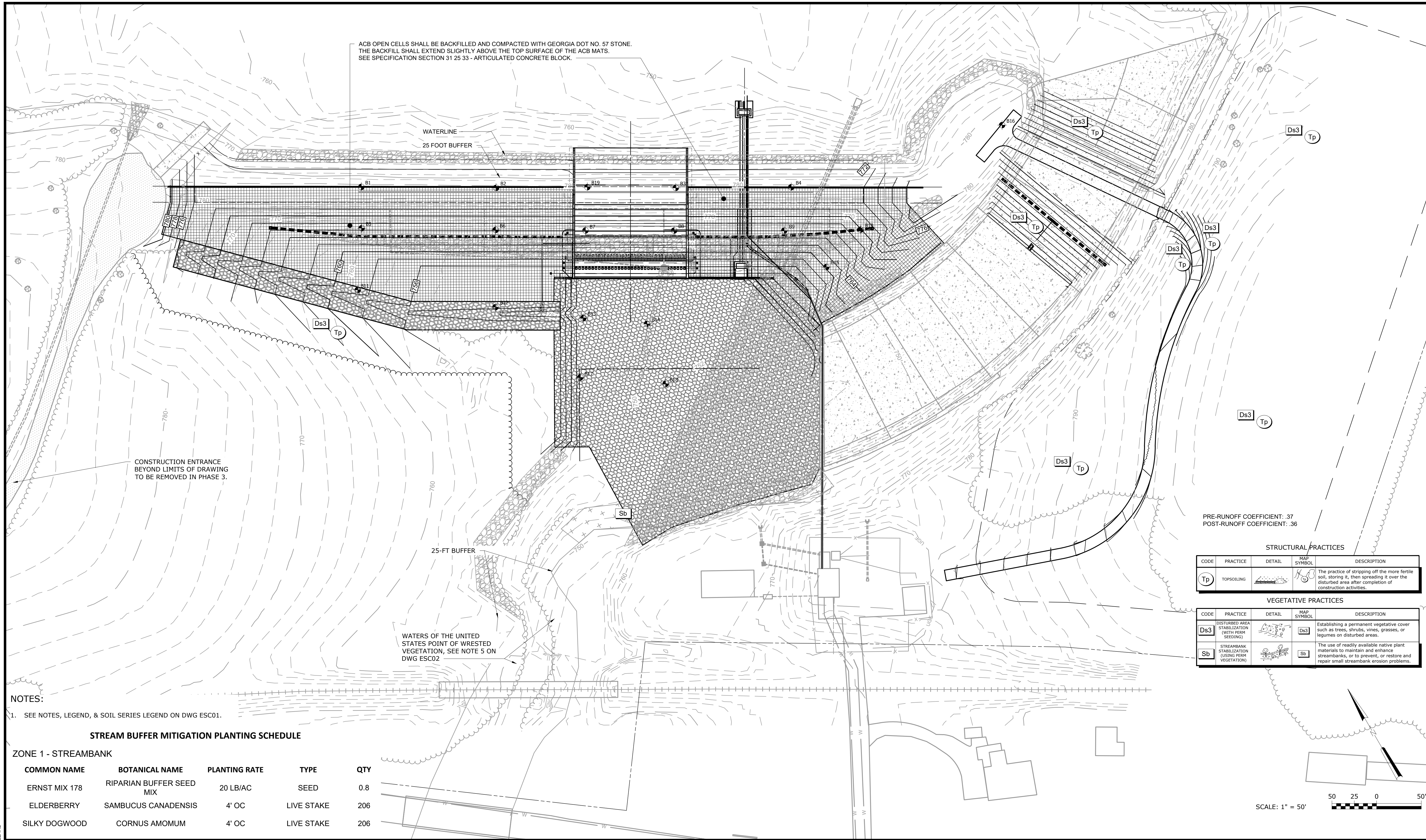
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Basis of award shall be any combination of the LUMP SUM BASE BID, UNIT PRICE ITEMS, and ALTERNATE BID ITEM AMOUNTS, at the sole discretion of the Owner.

**END OF BID FORM**



ACB OPEN CELLS SHALL BE BACKFILLED AND COMPACTED WITH GEORGIA DOT NO. 57 STONE.  
 THE BACKFILL SHALL EXTEND SLIGHTLY ABOVE THE TOP SURFACE OF THE ACB MATS.  
 SEE SPECIFICATION SECTION 31 25 33 - ARTICULATED CONCRETE BLOCK.



PRE-RUNOFF COEFFICIENT: .37  
 POST-RUNOFF COEFFICIENT: .36

STRUCTURAL PRACTICES

| CODE | PRACTICE   | DETAIL | MAP SYMBOL | DESCRIPTION   |
|------|------------|--------|------------|---|
| Tp   | TOPSOILING |        |            | The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities. |

VEGETATIVE PRACTICES

| CODE | PRACTICE   | DETAIL | MAP SYMBOL | DESCRIPTION  |
|------|--|--------|------------|--|
| Ds3  | DISTURBED AREA STABILIZATION (WITH PERM SEEDING) |        |            | Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.  |
| Sb   | STREAMBANK STABILIZATION (USING PERM VEGETATION) |        |            | The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems. |

- NOTES:  
 1. SEE NOTES, LEGEND, & SOIL SERIES LEGEND ON DWG ESC01.

STREAM BUFFER MITIGATION PLANTING SCHEDULE

ZONE 1 - STREAMBANK

| COMMON NAME   | BOTANICAL NAME            | PLANTING RATE | TYPE       | QTY |
|---------------|---------------------------|---------------|------------|-----|
| ERNST MIX 178 | RIPIARIAN BUFFER SEED MIX | 20 LB/AC      | SEED       | 0.8 |
| ELDERBERRY    | SAMBUCUS CANADENSIS       | 4' OC         | LIVE STAKE | 206 |
| SILKY DOGWOOD | CORNUS AMOMUM             | 4' OC         | LIVE STAKE | 206 |

File: C:\31252-2\252-2\31252-01\ESC04 - BIM\CIVIL\ESC04.dwg, Saved by: MBALLARD Save date: 3/17/2022 10:59 AM PLOT DATE: 3/17/2022 11:08 AM BY: MBALLARD

|   |            |      |    |
|---|------------|------|----|
| PROJECT ENGINEER:   | P. BAILEY  |      |    |
| DESIGNED BY:  | P. BAILEY  |      |    |
| DRAWN BY:   | HAZEN      |      |    |
| CHECKED BY:   | K. RAY     |      |    |
| IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE |            |      |    |
| REV   | ISSUED FOR | DATE | BY |

ESC CERT. ID#: 0000092856 EXP 01/08/2024  
 GBPE LIC#: PE046288 EXP 12/31/2022

**Hazen**  
 HAZEN AND SAWYER  
 1300 ALTMORE AVENUE  
 SUITE 520  
 ATLANTA, GEORGIA 30342

CITY OF GRIFFIN  
 GRIFFIN, GEORGIA  
  
 HEADS CREEK RESERVOIR  
 DAM REHABILITATION

EROSION, SEDIMENTATION,  
 AND POLLUTION CONTROL  
 PLAN PHASE 3

|                 |            |
|-----------------|------------|
| DATE:           | MARCH 2022 |
| HAZEN NO.:      | 31252-015  |
| CONTRACT NO.:   | TO-15      |
| DRAWING NUMBER: | ESC04      |

SCALE: 1" = 50'