



Boulder County Purchasing
1325 Pearl Street
Boulder, CO 80302
purchasing@bouldercounty.org

**INVITATION TO BID
COVER PAGE**

BID Number: **7033-19**

BID Title: **FLOOD – CONSTRUCTION SERVICES FOR LAKE 4, WEST LAKE AND A-FRAME DAM REHABILITATION**

Mandatory Pre-Bid Meeting: **Monday, April 22, 2019 at 9:00 a.m.**
CSU Extension Office
9595 Nelson Road
Longmont, Colorado, 80501

BID Questions Due: **Wednesday, May 1, 2019 at 10:00 a.m.**

County Response Due: **Thursday, May 9, 2019 end of day**

Email Address: purchasing@bouldercounty.org

Documents included in this package:
Bid Instructions
Terms and Conditions
Specifications
Bid Bonds, Insurance and W-9 Requirements
Submittal Checklist
Evaluation Criteria
Signature Page
Attachments A-O

SUBMITTAL DUE DATE: Wednesday, May 22, 2019 at 10:00 a.m.



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INSTRUCTIONS

IMPORTANT NOTICE TO BIDDERS:

Commencement of this Project is contingent on Boulder County receiving requested funding from the Federal Emergency Management Agency (FEMA). An Award will only be made in the event that Boulder County receives the required level of funding for the Project from FEMA. Failure of Boulder County to receive sufficient FEMA funding may result in cancellation of the Project.

In submitting a Proposal under this Invitation to Bid, Bidder acknowledges there is a potential that Boulder County may not proceed with this Project. If Boulder County learns from FEMA that FEMA will not provide sufficient funding for the Project, Boulder County may withdraw this Invitation to Bid.

BACKGROUND:

Boulder County Parks and Open Space (BCPOS) is soliciting bids from qualified and experienced contractors to secure construction services for the restoration of four (4) breached earthen embankments on the County's Western Mobile Open Space property. Lake 4 with two (2) embankments including the main embankment between Lake 4 and West lake and the embankment between Lake 3 and Lake 4, West Lake, A-Frame Lake and the construction of the associated spillways, outlet structures, and Lake 4 outlet pipeline are located west of the Town of Hygiene Colorado. The construction services are required to restore the embankments to an operational condition from damage which occurred during the flood of September 2013. The Project shall be completed in compliance with the Contract documents prepared by the County and with all Federal and State regulations. The selected contractor will complete all construction aspects of the project within 320 calendar days from the date of mobilization, weather permitting.

CONTRACT LANGUAGE:

The successful bidder will be required to enter into a Contract for Services and meet all insurance requirements as required prior to any work beginning.

In the event the selected contractor is unable to commence work as agreed to, the Boulder County Commissioners may rescind the bid award and proceed to award the contract to another bidder based on the results of the Invitation to Bid, **BID #7033-19**, re-bid the work, or proceed in any lawful manner the County deems necessary.

GRANT SPECIFICATIONS:

This project is supported by a grant from the Federal Emergency Management Agency (FEMA) 97.036; Housing and Urban Development, a Community Development Block Grant – Disaster Recovery (CDBG-

DR) 14.269, administered by the Boulder County Collaborative, a loan from the Colorado Water Conservation Board (CWCB), with matching funds from Boulder County and St. Vrain and Left Hand Water Conservancy District (District). A copy of the CDBG-DR grant agreement and the Boulder County Collaborative requirements are part of the attachments to this document. This project and associated contract are contingent upon Boulder County receiving approval and an agreement from FEMA. In the event funding is not made available from FEMA this Project and all related Work may not commence. The agreement has been signed by Boulder County and is currently in FEMA's approval process. This project and associated contract will be subject to the terms and conditions of this Agreement and all FEMA and CDBG-DR Grant program requirements.

The successful proposer shall execute the required FEMA addendum as part of any contract with the County, and comply with all FEMA requirements set forth in that addendum. Specifications and a sample contract with the FEMA requirements are attached.

The selected contractor will comply with all State and Local licensing requirements, including but not limited to: filing the State of Colorado Statement of Foreign Entity Authority paperwork, if contractor is not a Colorado company.

This project has multiple funding sources which require reporting from the selected contractor to meet the conditions for each funding source. This project is funded by FEMA, CWCB, CDBG-DR, the County and the District.

Contractor shall be authorized to do business in the State of Colorado and shall provide the County with a current **Certificate of Good Standing** evidencing such authorization. Furthermore, contractor shall be responsible for all applicable sales and employment taxes.

The 2013 flood related project will require the selected contractor to adhere to the FEMA Grant Program Requirements for Procurement Contracts; therefore, all invoices submitted to Boulder County must contain sufficient information detailing expenses. Invoices shall be submitted on company letterhead and shall include; but are not limited to (depending on activity completed): project name, date(s), description of work performed, quantity of materials purchased, if applicable, number of material units purchased, if applicable, rate per hour, number of hours worked, mileage, mileage rate, administrative fees and complete site address of the project as awarded by the County.

The selected contractor will be required to be in good standing with the Federal Government, any agency that is not in compliance or in violation of Federal law will not be considered by Boulder County. Boulder County will not conduct business with any entities listed on the Federal Debarment Checklist.

Boulder County is an Equal Opportunity Employer and no otherwise qualified individual and/or company shall be subject to discrimination on the basis of race, color, religion, creed, national origin, ancestry, sex, age, sexual orientation (incl. transgender status), physical or mental disability, marriage to a co-worker and retaliation for engaging in protected activity (opposing a discriminatory practice or participating in an employment discrimination proceeding) in any phase of employment or selection for this Project.

The work to be performed under any contract issued as a result of this solicitation is subject to the requirements of Section 3 of the Housing and Urban Development (HUD) Act of 1968, as amended, 12 U.S.C. 70u (Section 3) which states that: 1) Employment, training, contracting and other economic opportunities generated by HUD assistance shall, to the greatest extent feasible, be directed to low and very low-income persons residing within the project area; and 2), Contracts for work in connection with

the project be awarded to businesses which are located in, or owned substantially by persons residing in the project area. All CDBG-DR funded projects must, to the greatest extent feasible, comply with Section 3 when contracting for professional services. Consultant selection will be made on the basis of a balance of adherence to the requirements of Section 3 of the Housing and Urban Development Act of 1968, as amended, 12 U.S.C. 70u (Section 3), qualifications and the cost of proposed services that provide best value to the project.

All work for this BID will be completed in compliance with the Davis-Bacon Act (40 USC 276a to a-7) as supplemented by Department of Labor regulations (29 CFR, Part 5). The contractor will be responsible for preparing a submittal list to be provided to Boulder County at the Pre-construction meeting. The contractor will be responsible for keeping a log of all Requests for Information (RFI's), Change Order (CO's), and submittals. These logs will be reviewed at the weekly construction meetings.

Contractor is required to comply with the prevailing wage rate requirements under the Davis- Bacon Act of 1931 for construction, repair or alteration contracts, "funded in whole or in part" with funds provided under this Contract. The Contractor is responsible for obtaining recent and applicable wage rates from the U.S. Department of Labor and incorporating them into the construction, alteration or repair contract.

RECORDS:

The Contractor agrees to maintain such records and follow such procedures as may be required under the State's CDBG-DR Program and any such procedures as Boulder County may prescribe. In general, such records will include information pertaining to the contract, obligations and unobligated balances, assets and liabilities, outlays, equal opportunity, labor standards (as appropriate), and performance.

All such records and all other records pertinent to this contract and work undertaken under this contract shall be retained by the Contractor for a period of five (5) years after final audit of Boulder County's CDBG-DR project, unless a longer period is required to resolve audit findings or litigation. In such cases, Boulder County shall request a longer period of record retention. Boulder County and other authorized representatives of the State and Federal government shall have access to any books, documents, papers and records of the Contractors which are directly pertinent to the contract for the purpose of making audit, examination, excerpts, and transcriptions.

Boulder County and duly authorized officials of the State and Federal government shall have full access and the right to examine any pertinent documents, papers, records and books of the Contractors involving transactions related to this local program and contract.

PRE-BID MEETING:

A Mandatory, Pre-Bid Meeting, is scheduled for 9:00 a.m. on Monday, April 22, 2019. Interested parties are to meet at the Boulder County Fairgrounds, CSU Extension Building at 9595 Nelson Road, Longmont, CO 80501. Bidders will be asked to sign-in and attend a brief project orientation where instructions for vehicle pooling to the project sites will be addressed. Parking is very limited at the project site and access is via private property; therefore, unescorted, individual site visits will not be permitted. The project site is located on the County's Western Mobile and Braly Open Space properties generally south of St. Vrain Creek and west of the North 61st Street. **A representative from your company must be in attendance at the meeting. Bids from firms not represented at the Mandatory Pre-Bid Meeting will not be accepted.**

ATTACHMENTS:

The following documents are part of this Bid:

1. Attachment A: Special Conditions
2. Attachment B: Contractor Qualification Statement
3. Attachment C: Western Mobile Lake 4 Dam Rehabilitation Construction Drawings and Specifications
4. Attachment D: Lake 4 Outlet Pipeline Replacement Construction Drawings and Specifications
5. Attachment E: West Lake Dam Maintenance and Rehabilitation Construction Drawings and Specifications
6. Attachment F: A-Frame Reservoir Rehabilitation Construction Drawings and Specifications
7. Attachment G: Conceptual Dewatering Plan
8. Attachment H: Potential Haul Routes
9. Attachment I: FEMA Addendum
10. Attachment J: CDBG-DR Addendum
11. Attachment K: Grant and Loan Agreements
12. Attachment L: FEMA REC report
13. Attachment M: Protected Plants and Wildlife Conservation Measures
14. Attachment N: Sample Contract
15. Attachment O: Boulder County Parks and Open Space Project Information

DROPBOX LINK FOR ALL ATTACHMENTS

https://www.dropbox.com/sh/x1v4qh1iit1zgtu/AADixB4eXW-tlZaaoZBiL_naa?dl=0

BID AWARDS:

All proposals submitted in response to this BID will be subject to the Boulder County Collaborative requirements and must contain all documentation as stated in the CDBG-DR Public Infrastructure Program Required Procurement and Contract Documents (see Attachment J).

All proposals submitted in response to this BID, project awards and contract documents will be evaluated and subject to approval from the County, the District and CWCB.

WRITTEN INQUIRIES:

All inquiries regarding this BID will be submitted via email to the Boulder County Purchasing Office at purchasing@bouldercounty.org on or before **10:00 a.m., Wednesday, May 1, 2019**. A response from the county to all inquiries will be posted and sent via email no later than **end of day Thursday, May 9, 2019**. Only questions submitted in writing and subsequently answered in writing can be relied upon.

Please do not contact any other county department or personnel with questions or for information regarding this solicitation.

SUBMITTAL INSTRUCTIONS:

BIDs are due at the Administrative Services Information Desk or email box (preferred) listed below, for time and date recording on or before **10:00 a.m. Mountain Time on Wednesday, May 22, 2019**. A bid opening will be conducted at 3:00 p.m. Mountain Time at county offices.

Your response can be submitted in the following ways. **Please note that email responses to this solicitation are preferred, but are limited to a maximum of 25MB capacity. NO ZIP FILES ALLOWED. Electronic submittals must be received in the email box listed below. Submittals sent to any other box**

will NOT be forwarded or accepted. This email box is only accessed on the due date of your questions or proposals. Please use the Delivery Receipt option to verify receipt of your email. It is the sole responsibility of the proposer to ensure their documents are received before the deadline specified above. Boulder County does not accept responsibility under any circumstance for delayed or failed email or mailed submittals.

Email purchasing@bouldercounty.org; identified as **BID #7033-19** in the subject line.

-OR-

US Mail One (1) unbound copy of your submittal, printed double-sided, 11 point, on at least 50% post-consumer, recycled paper must be submitted in a sealed envelope, clearly marked as **BID #7033-19**, to the Administrative Services Information Desk located at 1325 Pearl Street, Boulder, CO 80302.

All BIDs must be received and time and date recorded by authorized county staff by the above due date and time. Sole responsibility rests with the bidder to see that their BID response is received on time at the stated location(s). Any BIDs received after due date and time will be returned to the bidder.

The Board of County Commissioners reserves the right to reject any and all BIDs, to waive any informalities or irregularities therein, and to accept the proposal that, in the opinion of the Board, is in the best interest of the Board and of the County of Boulder, State of Colorado.

Americans with Disabilities Act (ADA): If you need special services provided for under the Americans with Disabilities Act, contact the ADA Coordinator or the Human Resources office at (303) 441-3525 at least 48 hours before the scheduled event.

DROPBOX LINK FOR ALL ATTACHMENTS

https://www.dropbox.com/sh/x1v4qh1iit1zgtu/AADixB4eXW-tlZaaoZBiL_naa?dl=0



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TERMS AND CONDITIONS

1. Bidders are expected to examine the drawing, specifications, schedule of delivery, and all instructions. Failure to do so will be at the bidder's risk.
2. Each bidder will furnish the information required in the Invitation to Bid.
3. The Contract/Purchase Order will be awarded to that responsible bidder whose submittal, conforming to the Invitation to Bid, will be most advantageous to the County of Boulder, based on best value not only price.
4. The County of Boulder reserves the right to reject any or all bids and to waive informalities and minor irregularities in bids received, and to accept any portion of or all items proposed if deemed in the best interest of the County of Boulder to do so.
5. No submittal will be withdrawn for a period of thirty (30) days subsequent to the opening of bids without the consent of the County Purchasing Agent or delegated representative.
6. A signed purchase order or contract furnished to the successful bidder results in a binding contract without further action by either party.
7. Late or unsigned bids will not be accepted or considered. It is the responsibility of bidders to ensure that the bid arrives at the Administrative Services Information Desk prior to the time indicated in the "Invitation to Bid."
8. The proposed price will be exclusive of any Federal or State taxes from which the County of Boulder is exempt by law.
9. Any interpretation, correction or change of the bid documents will be made by Addendum. Interpretations, corrections and changes of the bid documents made in any other manner will not be binding, and bidder will not rely upon such interpretations, corrections and changes. The County's Representative will not be responsible for oral clarification.
10. Confidential/Proprietary Information: Bids submitted in response to this "Invitation to Bid" and any resulting contract are subject to the provisions of the Colorado Public (Open) Records Act, 24-72-201 et.seq., C.R.S., as amended. Any restrictions on the use or inspection of material contained within the bid and any resulting contract will be clearly stated in the bid itself. Confidential/proprietary information must be readily identified, marked and separated/packaged from the rest of the bid. Co-mingling of confidential/proprietary and other information is NOT acceptable. Neither a bid, in its entirety, nor bid price information will be considered confidential/proprietary. Any information that will be included in any resulting contract cannot be considered confidential.
11. Boulder County promotes the purchase/leasing of energy efficient, materials efficient and reduced toxic level products where availability, quality and budget constraints allow. Bidders are expected whenever possible to provide products that earn the ENERGY STAR and meet the ENERGY STAR specifications for energy efficiency with power management features enabled. Bidders are encouraged to offer products and equipment with post-consumer recycled-content materials. Products should be packaged and delivered with a minimum amount of recycled packaging that adequately protects the product but is not excessive.



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SPECIFICATIONS

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PROJECT DESCRIPTION:

Heavy rains over several days in mid-September 2013 resulted in extensive flooding and debris flows along St. Vrain Creek and its tributaries. The rain event caused direct damage to existing water bodies known as Lake 4, West Lake, and A-frame Lake. The reservoirs listed in this project are located at the Boulder County Western Mobile property which is jointly owned and managed by the County and the District, as well as, the Braly Open Space properties which are owned and managed by Boulder County Parks and Open Space for aesthetic and natural resource purposes. The severe damage in the project area was due to the volume and velocity of water and the amount of sediment from spatially varied split flow in St. Vrain creek, upstream of the subject project area. The system of inter-related ponds at the properties was significantly impacted by the event. The embankments associated with Lake 4, West Lake, and A-frame Lake; hereafter referred to as Project Reservoirs, were also damaged during the 2013 flood. Specifically, the following flood damage occurred:

1. Lake 4, West Lake and A-frame Lake embankments were fully breached.
2. Lake 4 Outlet Structure was damaged.
3. 61st Street was completely eroded.
4. Alluvial material was deposited in Lake 4.
5. A large head cut developed downstream of 61st Street to the confluence with the St. Vrain Creek.

Lake 4 was originally constructed as a lined reservoir with a clay cutoff wall. This reservoir is owned and operated jointly by Boulder County Parks and Open Space and the District. The West and A-frame Lakes were constructed as unlined, reclaimed surface mining excavations. In their pre-flood state, Lake 4 was managed as a water storage reservoir for Boulder County and the District. The District used the water in the reservoir for augmentation by releasing water to the St. Vrain Creek through the outlet pipeline. Since the 2013 flooding, the Lake 4 and West Lake embankments have been classified as jurisdictional Dams by the State Engineer's Office, Dam Safety Branch. The design plans for Lake 4 and West Lake Dam Rehabilitations were prepared in accordance with the Colorado's Rules and Regulations for Dam Safety and Dam Construction (see Attachments C and E). The goals of the dam restoration portion of the project are as follows, but are not limited to:

1. Repair the damage suffered to the Project Reservoirs.
2. Construct emergency spillways and outlet structures for the Project Reservoirs.
3. Restore the original alignment and functionality of the Foothills Outlet and Clough and True Ditches by routing the ditches across the West Lake embankment using inverted siphon hydraulic structures.
4. Allow inter-related reservoirs to act as a system to pass future flood flows from St. Vrain Creek through the reservoirs and back to St. Vrain Creek.
5. Removal of flood deposited sediment from Lake 4

The outlet piping from Lake 4 to St. Vrain Creek has developed leaks over time. The pipeline runs from the Lake 4 outlet structure underneath West Lake and alongside A-Frame Reservoir to St. Vrain Creek. Slip-lining of the existing concrete pipe with high-density polyethylene (HDPE) is planned as part of this project. This activity should be sequenced with the reservoir projects to increase efficiency in excavation and dewatering efforts. The goals of the Lake 4 Pipeline portion of the project are as follows, but are not limited to:

1. Slip-line the existing concrete pipe with HDPE.
2. Install four (4) new manhole structures to facilitate pipe cleaning and inspection.
3. Install a concrete measurement and discharge structures.

Lake 4:

Lake 3 and Lake 4 were breached during the 2013 flood. Both reservoirs lie within the St. Vrain Creek geomorphic floodplain. Lake 4 is a jurisdictional lined reservoir managed for water storage and well augmentation for the District. Lake 3 is within a permitted mining area leased to Martin Marietta. An emergency spillway will be constructed from Lake 3 to Lake 4 to safely pass design flood flows from Lake 3 to Lake 4. Fill will be placed within Lake 3 as shown on the Lake 4 Plans, and along the Clough and True Ditch Alignment as described in Attachment O. Lake 4 was previously lined with a clay cutoff wall around the reservoir. A key part of the breach repair will include tying into this cutoff wall to restore the liner for Lake 4. The new embankment for Lake 4 will be constructed as a zoned embankment with a clay core. The clay material for the core will be provided by BCPOS from the Boulder County Swede Lake property. All efforts should be made to salvage clay material from the Project Reservoirs for the clay core as well.

The Lake 4 repairs will include the removal of approximately 250,000 cubic yards of flood deposited alluvium material to be used as described on the Plans in Attachment O. The flood-deposited sediment will be used as fill for embankment repairs with a significant amount to be placed in the bottom of West Lake.

The berms that separate the reservoirs help maintain the down-gradient natural drop in the relative elevations between the reservoirs. The existing outlet structure for Lake 4 will be removed and replaced with two (2) outlet towers which will connect to the slip-lined Lake 4 outlet pipe. A 155 foot wide spillway with riprap rundown will also be constructed that will discharge into West Lake. A crest control concrete cutoff wall will be constructed for protection against surface erosion during spillway overtopping. A six (6) inch toe drain running the entire length of Lake 4's east embankment will be constructed with two (2) outfalls to control phreatic surface between the two (2) separating reservoirs.

West Lake:

West Lake Reservoir was fully breached during the 2013 flood. It is a jurisdictional reservoir managed for ecologic and passive recreational purposes. It lies within the St. Vrain Creek geomorphic floodplain. It is separated from the down-gradient A-frame reservoir by a berm of alluvial gravels constructed by the Highland Ditch Company immediately after the 2013 flood. Reclamation of the mining depressions, followed by allowing them to fill with water, created a below ground reservoir. The full breach at West Lake will be repaired as a zoned embankment with a clay core, including installation of a 70 foot wide over-the-embankment spillway at the breach location. The spillway will be constructed using soil rip-rap. The spillway cut within the dam crest will be constructed with a 10% side slope. The existing 30 inch outlet structure will be removed and replaced with a concrete inlet tower and a concrete encased 20 inch diameter HDPE outlet pipe, which daylight through a concrete lined channel and measuring flume. A crest control concrete cutoff wall will be constructed for protection against surface erosion during spillway overtopping.

The Foothills Outlet and Clough and True Ditch have historically run across the top of the West Lake Embankment. To restore functionality to these two (2) ditches and allow for installation of the soil rip-rap

emergency spillway, two (2) inverted siphons encased with imported fill will be installed across the new embankment.

A-Frame Lake:

A-Frame Reservoir was breached during the 2013 flood. It is a non-jurisdictional reservoir managed for ecologic and passive recreational purposes. It lies within the St. Vrain Creek geomorphic floodplain. The main roadway, 61st Street forms the east A-frame embankment and was reconstructed immediately after the 2013 flood with local alluvial material. A-frame is a reclaimed gravel pit that was filled by groundwater after mining was complete. The berms that separate the reservoirs help maintain the down-gradient natural drop to St. Vrain Creek. A two (2) tier concrete overflow weir spillway structure combined with a ten (10) foot reinforced box culvert will be constructed to pass 100-year flow underneath 61st Street and out to St. Vrain Creek. Two (2) crest control concrete cutoff walls will be constructed for protection against surface erosion of backfilled scour east of 61st Street. A thirty (30) foot wide Turf Reinforcement Mat (TRM) will be installed at the east bank of 61st Street in addition to backfilling the entire pasture. A fourteen (14) inch full depth of Aggregate Base Course (ABC) will be placed and compacted where 61st Street is regraded, to allow recommended overtopping.

Lake 4 Outlet Pipeline:

There is an existing 18 inch reinforced concrete pipe (RCP) from the Lake 4 east embankment going to St. Vrain Creek. This pipe has developed leaks and will need to be restored for efficient release from Lake 4 to St. Vrain Creek. From the outlet structure at Lake 4 the existing pipeline runs under the West Lake floor and along the north side of A-Frame reservoir prior to discharging into St. Vrain Creek. Four (4) new service manholes will be installed along the existing pipeline at an approximate spacing of 500 feet. The existing pipeline will be slip lined with a fourteen (14) inch HDPE pipe between each manhole. The existing eighteen (18) inch RCP from the last access manhole will be abandoned and replaced with an eighteen (18) inch HDPE pipe located on a new alignment, with a measurement structure that spills into the planned A-Frame Reservoir ten (10) foot box culvert.

Dewatering:

The project will include a considerable dewatering effort. This will include complete dewatering of Lake 4 and West Lake to allow for the transportation of the Lake 4 flood deposited sediment from Lake 4 to the West Lake Sediment disposal area within the footprint of the reservoirs. **Material movement between Lake 4 and West Lake is required to be within the reservoir footprints to protect surrounding wildlife habitat.**

The material at the project site is assumed to be gravelly sand. The dewatering may be a combination of surface pumping from West Lake to A-frame to dewater Lake 4 and West Lake, and localized dewatering for excavations. Pumping from West Lake can be benefited by connecting to Longmont Power at the location shown in Attachment G. Requirements for connecting pumps to the Longmont Power supply will be coordinated by the Contractor with the City of Longmont Power and Communications.

The Contractor may also drawdown A-frame reservoir to minimize the amount of local dewatering that may be required for installation of the Lake 4 Pipeline Outlet Manholes, A-Frame Dam Rehabilitation and West Lake Dam Rehabilitation.

As part of this bid the Contractor shall submit a conceptual dewatering plan and dewatering qualifications, including any proposed subcontractors.

SCOPE OF WORK:

The Project consists of restoration of four (4) separate pond embankment breaches, installation of two (2) inverted siphons to route historical ditches across one (1) of the pond embankments, installation of outlet structures, and installation of emergency spillways. Major items of work include, but are not limited to:

1. Secure applicable permits prior to construction startup.
2. Mobilization and project controls.
3. Site preparation including pre-construction survey, necessary Best Management Practices (BMP), and any further soil analysis and testing that may be needed.
4. Clearing and grubbing within limits of disturbance and removing and stockpiling topsoil.
5. Removal of abandoned utilities appurtenances and flood generated trash and debris.
6. Demolition of existing structures as depicted in construction drawings (see Attachments C through F).
7. Unclassified excavation in conformity with the lines and grades shown in the construction drawings (see Attachments C through F).
8. Placement of zoned embankment fills.
9. Hauling excess material to predetermined disposal site.
10. Concrete grade control wall.
11. Placement of rip-rap spillway at three (3) embankments.
12. Installation of water level control structure and associated outlet pipe at three (3) of the embankments.
13. Realignment of the Foothills Outlet and Clough and True ditches across the West Lake embankment, including installation of inverted siphon structures.
14. Lining exiting outlet pipe with HDPE.
15. Construction of four (4) access manholes.
16. Construction of a flow measurement structure.
17. Dewatering temporary excavations.
18. Installation of slope stabilization measures such as rip-rap rundowns, Turf Reinforcement Mat, and seeding.
 - a. A minimum of one (1) year guarantee and warranty will be required for any re-vegetation efforts for survival rates.
19. Restoration of internal access/haul routes, staging areas and demobilization.

SCHEDULE:

The tentative schedule for construction is **September 1, 2019 to July 1 2020**, and may go through cold weather conditions dependent upon final contract award and Notice to Proceed. The selected Contractor should be prepared and take all appropriate measures to ensure proper construction of all elements of the scope of work, including but not limited to:

1. Cold weather protection for new concrete.
2. Proper compaction of embankment and roadway surfacing.

These measures should be incorporated into the unit costs of each line item in the Bid Tab and will not be paid as extra costs.

BCPOS COMMITMENTS:

Engineer Coordination:

Boulder County will serve as the point of contact between the Design Engineers and selected Contractor. They will also coordinate with the Design Engineers and selected Contractor to address any construction issues and provide design changes or clarifications as needed.

Drawings and Specifications:

BCPOS will provide digital Drawings and Specifications files as needed by the selected Contractor in order to fulfill the terms of the Contract.

Permitting:

BCPOS will support the selected Contractor in obtaining permits and licenses. BCPOS has already begun the process obtaining the following permits:

1. U.S. Army Corps of Engineers Jurisdictional Determination.
2. U.S. Fish and Wildlife Service Endangered Species Act Section 7 Consultation.
3. State Historical Preservation Office (SHPO) National Historic Preservation Act Section 106 Consultation.
4. Colorado Parks and Wildlife SB40 Certification.
5. Boulder County Stream Restoration Permit (see also Boulder County Stream Restoration Permit under Contractor Commitments).
 - a. Boulder County Floodplain Development Permit.
 - b. Boulder County Grading permit.
 - c. Boulder County Building permit.

Staging Areas:

Staging areas are identified on all attached Drawings (see Attachments C through F).

Private Landowner Permission:

Boulder County will obtain permission from all private landowners required to complete the Project as specified in this document for access and/or work on private land. Boulder County will not authorize commencement of work until all written permissions are secured.

CONTRACTOR COMMITMENTS:**Drawings and Specifications:**

The selected Contractor shall agree to work in a timely and efficient manner, and in accordance with the Drawings and Specifications attached with this BID, to accomplish the tasks specified in this Project.

Permitting:

The selected Contractor shall be responsible for obtaining permits and licenses as required by all Federal, State and Local regulations. The selected Contractor will obtain permits required for construction, collectively herein after referred to as, Contractor Required Permits, including but not limited to the following:

1. Colorado Department of Public Health and Environment (CDPHE) Water Quality Control Division Storm Water General Permit for Construction Activities.
2. CDPHE Construction Dewatering Permit.
3. Colorado Division of Water Resources Notice of Intent to Dewater.
4. Colorado Department of Transportation Special Use and/or Access Permit (if applicable).
5. Boulder County Oversize/Overweight permits (if applicable).
6. Contractor will provide information to BCPOS as part of the Boulder County Stream Restoration Permit. Documentation shall include:
 - a. Traffic Control Plan (including haul routes, access points, fueling locations, staging areas, stream access routes, construction sequencing with proposed quantities and a Traffic Control Plan developed a certified traffic control supervisor)
 - b. Boulder County Access permit.
 - c. Boulder County Oversize/Overweight permit.
 - d. Storm Water Management Plan.
 - e. Spill Prevention, Control, and Countermeasure (SPCC) Plan, if required.

Permitting will commence within ten (10) days of the date of the execution of the Contract and upon written Notice to Proceed from the County. All Contractor-required permit applications will be submitted

to applicable approval agencies within thirty (30) days of the execution of the Contract and upon written Notice to Proceed from the County. Project mobilization will commence within ten (10) days of approval of all Contractor-required permits. The Project is to be completed within 320 calendar days from the date of mobilization, weather permitting.

EQUIPMENT:

All equipment and vehicles utilized by the selected Contractor shall meet all the requirements of Federal, State and Local regulations without limitation, including all U.S. Department of Transportation (USDOT), and Colorado Department of Transportation (CDOT) safety regulations. Equipment operating within or adjacent to any surface waters shall be free of fluid leaks. Biodegradable hydraulic fluids shall be utilized for all equipment operating in surface waters. The contractor shall submit a list of equipment operating with certified non-toxic, biodegradable hydraulic fluids to the engineer prior to use (see Attachment A). All fueling, oiling, or maintenance of equipment shall be performed in designated upland locations, with adequate Best Management Practices to contain potential spills in accordance with the Plans and Specifications.

All equipment must be maintained and in good working order. Continuous, excessive oil and hydraulic fluid leakage will not be tolerated and will be cause to have the machinery removed from the project site and include removal of any contaminated soil by the selected Contractor. All operators shall have the skills to operate the machinery in a responsible, safe, and efficient manner while being conscientious of the natural resource values.

The selected Contractor will be responsible for providing on-site portable restroom facilities for their staff.

LIQUIDATED DAMAGES:

It is acknowledged that the selected Contractor's failure to meet the scheduled completion date of April 1, 2020 for the Lake 4 Dam Rehabilitation Project, within the specified contract time, will cause the District to incur substantial economic damages and losses of types and in amounts which are impossible to compute and ascertain with certainty as a basis for recovery by the County of actual damages, and that liquidated damages represent a fair, reasonable and appropriate estimate thereof.

Accordingly, in lieu of actual damages for such delay, the selected Contractor shall agree that liquidated damages may be assessed and recovered by the County against the selected Contractor and its Surety, in the event of delayed completion and without the County being required to present any evidence of the amount or character of actual damages sustained by reason thereof; therefore the selected Contractor shall be liable to the County for payment of liquidated damages in the amount of \$5,800.00 for each day that completion of the Lake 4 Rehabilitation Project is delayed beyond April 1, 2020; as adjusted for time extensions provided by the Contract Documents. Such liquidated damages are intended to represent estimated actual damages and are not intended as a penalty, and selected Contractor shall pay them to the County without limiting the County's right to terminate this agreement for default as provided elsewhere herein. The Lake 4 Dam Rehabilitation shall to be completed to allow for a 90-day liner test as required by the Colorado State Engineer's Office prior to filling on July 1, 2020.

The Highland Ditch Company operates the Foothills Outlet Ditch and has entered into an agreement with Boulder County to allow for construction of the Foothills Outlet Ditch Siphon prior to April 15, 2019 or after September 30, 2019.

This agreement also requires that if Highland Ditch Company cannot deliver the full demand for water to shareholders and contract water users between April 15 and September 30, 2019 due to Licensee's construction, Licensee shall provide wet water of a quality suitable for agricultural irrigation at the Robert Schlager Diversion Structure in an amount sufficient to fulfill the daily demand of said shareholders and contract water users.

WILDLIFE CONSERVATION MEASURES:

This project is in an area of many protected plants and wildlife, and as such, there are special provisions that are outlined in Attachment M, which must be strictly adhered to. Boulder County has procured the services of ERO Resources, Inc. to verify compliance with Federal, State and Local protected plant and wildlife requirements during construction.

CONSTRUCTION WATER:

The selected contractor will be responsible for procuring all water that will be used for construction activities. This includes, but is not limited to: dust abatement, soil compaction, clay processing, concrete mixing, equipment washing, or other consumptive use activity. At no time is the contractor permitted to use water from the reservoirs, irrigation ditches, or St. Vrain Creek for any construction activities without a prior executed lease agreement granting use of those rights. Such agreements must be submitted to the County prior to the use of leased water.

ADDITIONAL INFORMATION:

Pre-Construction Meeting:

Prior to commencement of work, the selected Contractor, any subcontractors and the persons responsible for coordination of the work shall meet with representatives from Boulder County. The meeting will be held at the Boulder County Parks and Open Space Administrative Building at 5201 St. Vrain Road, Longmont, Colorado 80503. The detailed pre-construction conference agenda will be provided to the selected Contractor for review prior to the meeting. The selected Contractor will be responsible for providing a base line schedule to the County's representative at the meeting. Weekly periodic progress meetings will be conducted at the project site to discuss schedule, progress, coordination, submittals, and job related topics. The District and/or representative from CWCB, the City of Longmont, and the County may be present at all or some of the designated weekly progress meetings.

OVERNIGHT CAMPING:

Boulder County prohibits any overnight camping; Operational staff is not authorized to be present at Project site from sunset to sunrise. The Open Space property will remain closed during these hours to the selected Contractor and its subcontractors and/or designated representatives and/or agents unless approved, in writing, by the County.

HOURS OF OPERATION:

Contractor work hours shall be Monday to Friday, 7:00 a.m. to 5:00 p.m. Work on Saturdays and Sundays, nights, and federal holidays shall not be allowed unless approved, in writing, by the County.

The selected Contractor shall comply with all regulations issued by the Secretary of Labor pursuant to the Contract Work Hours and Safety Standards Act, (Public Law 91-54, 83 Stat 96).

CONFLICT OF INTEREST:

Any party that has developed, designed or drafted specifications, requirements, statements of work and/or has participated in planning activities for this Project may be excluded from consideration for the award of this Project.

CHANGE ORDERS:

Any unplanned, change orders, modifications or additional services to this Project, shall be submitted by the selected Contractor, in a separate, written document, including a fee schedule and completion schedule and presented to the County for review. Approval from the County, in writing, must accompany all change order requests. Change order approval is subject to approval from the District and/or CWCB.

WATER DISCHARGE REQUIREMENTS: Contractor shall protect water quality by complying with the lawful requirements of Boulder County's Illegal Discharge Ordinance (No. 2012-4), MS4 permit (COR090000), and MS4 Program Description Documents regarding discharges to storm drainage systems or other watercourses in Boulder County's jurisdiction.

PERMITS, LICENSES, LOCATES AND CODES:

The selected Contractor shall have full responsibility for obtaining, prior to the start of work, and for maintaining throughout the term of the Project, any permits and licenses which may be required in order to carry out the work. The Contractor shall also be responsible for following all State and County codes, which may be required in order to carry out the Project. The Contractor shall also be responsible for all "locates" of all public utilities related to performing work under the terms of this Contract. The Contractor shall also be responsible for insuring that any of its subcontractors performing work on the Project satisfy the provisions of this paragraph.

CONTRACTOR LICENSING:

General contractors, HVAC contractors, and roofing contractors require licensing through the Boulder County Land Use Department. Electricians and plumbers are required to be licensed through the State of Colorado and registered with the Boulder County Land Use Building Safety and Inspection Division. Furthermore, it is required for all Architects, Professional Engineers and Professional Land Surveyors to be fully-licensed through the State of Colorado. It is the responsibility of the selected Contractor to apply for and ensure the appropriate Contractor's license is obtained.

TRAFFIC CONTROL PLAN:

Traffic Control Plan shall include haul routes, access points, fueling locations, staging areas, stream access routes, construction sequencing and proposed quantities and a Traffic Control Plan developed by a certified traffic control supervisor.

Designated haul routes for import of material or removal of material beyond the project boundaries have to meet all Federal, State, and Local regulations. This will include the following conditions:

1. The selected Contractor shall submit a Traffic Control Plan (TCP) including a haul plan to the Engineer for approval at the pre-construction meeting. The TCP shall be in conformance to the Manual of Uniform Traffic Control Devices (MUTCD) and CDOT standards and be developed by a certified Traffic Control Supervisor. The TCP and haul plan will be reviewed by the Boulder County Transportation Development Review Coordinator, BCPOS and the Engineer prior to the Stream Restoration permit submittal.
2. At the time of stream restoration permit application, a final haul plan and TCP developed by the selected Contractor shall be provided to Boulder County Transportation for final review and approval.
3. Hours of hauling shall be from 8:30 AM to 4:30 PM, Monday through Friday, to limit impacts on regular vehicular traffic, especially during peak commuter periods.
4. Flaggers and/or other traffic control measures may be required at the intersections of the access points to roadways and along off-site haul routes during hauling operations.
5. Variable Message Boards may be required along off-site haul routes during hauling operations.
6. Flaggers and all necessary traffic control devices shall be supplied and installed by the Contractor.
7. No heavy traffic or hauling through the Town of Hygiene on N.75th Street will be allowed.
8. No left turns entering or exiting the Martin Marietta gate from State HWY 66 will be allowed.
9. Traffic sequencing plan for the construction of 61st Street crossing and any related road closures.
10. To limit impacts on County roads, haul route planning should attempt to utilize internal circulation as much as possible.

The TCP and haul plan shall address the above conditions at a minimum, as well as, depict intended circulation (internal to site, between sites, off-site) for haul traffic, anticipated truck traffic volumes per haul route (daily and project total), and timing of hauling based on construction sequencing.

Preliminary staging areas, access points, access routes and haul routes are identified on the Plans (see Attachment C-F). Based on previous projects in the area Boulder County has included figures to show previously acceptable haul routes to the area for reference (see Attachment H). The selected Contractor shall be responsible for the final haul routes and obtaining approval from Boulder County for all final staging areas, access points, internal access routes and external haul routes.

All haulage between Lake 4 and West Lake is required to be within the Reservoirs' footprint. No material haulage or heavy construction traffic will be allowed outside the Lake 4 and West Lake reservoirs' footprint.



Boulder County Purchasing
1325 Pearl Street
Boulder, CO 80302
purchasing@bouldercounty.org

INSURANCE AND W-9 REQUIREMENTS

BID BOND:

A Bid Bond equal to an amount of five (5%) percent of the proposal is required for proposals over \$50,000.00. The Bid Bond is required at the time of Proposer's submittal and shall be in the form of a Certified Check, Cashier's Check, or Bid Bond duly executed by a corporate surety, qualified and licensed to do business in Colorado and maintaining a general agent, therein. The bid guarantee shall consist of a firm commitment accompanying a bid as assurance that the bidder will, upon acceptance of the bid, execute such contractual documents as may be required within the time specified.

BONDS:

Both a payment and a performance bond are required for this project and must equal 100% of the Contracted cost of the project. Please include the cost of this bonding into the total proposed cost. Payment and Performance Bond requirements are addressed in the attached Sample Contract. Bonds must be received and approved, by the County, prior to work commencing. A Notice of Final Settlement will be required and retainage of 5% held on all invoices.

SAM.GOV REGISTRATION:

Provide a copy of your business' registration in sam.gov with your proposal.

DUNS NUMBER:

Provide your business' DUNS number with your proposal.

INSURANCE REQUIREMENTS:

Note that the insurance amounts listed below are the minimum required for this project. **Proof of current insurance must be provided with your proposal in the form of a sample certificate or your proposal will be deemed non-responsive.** If you require a waiver of insurance requirements (e.g. Workers' Compensation and sole proprietorships) you may request one in your response with an explanation.

New certificates will be requested if the contract process takes more than 30 days after an award.

All proposers are instructed to thoroughly review all the stated insurance requirements for this Project, the insurance requirements stated are the minimum and standard for Boulder County Government, for this Project. All hired contractors are required to meet the insurance requirements, as stated, for contracted services as part of the Boulder County contracting process. Owner/Sole Proprietors/Officer are not exempt from the county's insurance requirements and coverage limits. Please refer to the Insurance Requirements in this RFP.

***This type of coverage will be required to remain in place and be maintained by the selected contractor for the 3-year period as noted after completion of the Project.**

*General Liability	\$1,000,000 Each Occurrence \$2,000,000 General Aggregate \$2,000,000 Products Completed Operations Aggregate *3 years Products/Completed Operations
Excess or Umbrella	\$3,000,000 May be required if higher limits are requested.
Automobile Liability	\$1,000,000 Each Accident *Including Hired & Non-Owned Auto
Worker’s Compensation and Employer’s Liability	Statutory limits
Professional Liability or Errors and Omissions	\$1,000,000 Per Loss \$1,000,000 Aggregate Coverage maintained or extended discovery period for 2 years
*Pollution Liability	\$1,000,000 Per Loss \$1,000,000 Aggregate *Coverage maintained or extended discovery period for 3 years

If the coverage is written on a claims-made basis, the Contractor warrants that any retroactive date applicable to coverage under the policy precedes the effective date of the Contract; and that continuous coverage will be maintained, or an extended discovery period will be exercised for a period of three (3) years beginning from the time that work under the contract is completed. In the event Contractor owns, or agrees to be responsible for the use, operation and maintenance of an above-ground petroleum storage tank, fuel truck, or performs fueling services, Contractor shall maintain Pollution Liability Insurance, or similar third-party environmental liability, at a minimum limit not less than \$1,000,000 per occurrence combined single limit with a \$1,000,000 annual aggregate providing coverage for damages against, but not limited to, bodily injury, property damage, clean up, corrective action including assessment, remediation and defense costs.

Additionally, the successful Contractor will be required to comply with the insurance requirements as specified in the Grant and Loan Agreements specified between FEMA and Boulder County, CDBG-DR and Boulder County, CWCB, and CDBG-DR and the District.

W-9 REQUIREMENT:

Please provide a copy of your business’s W-9 with your proposal.



Boulder County Purchasing
1325 Pearl Street
Boulder, CO 80302
purchasing@bouldercounty.org

BID TAB

BID INSTRUCTIONS:

All bid pricing shall be included in the following Bid Tab table and included with proposals. No bid pricing shall be included in the Attachments required for this BID.

The following instructions are to provide clarification on what costs should be included with each Bid Item.

All Projects:

1. Mobilization shall be distributed across each project based on the selected Contractor's assumed equipment and timing for each project. The selected Contractor should account for multiple mobilizations if needed based on proposed construction schedule and sequencing.
2. Davis-Bacon reporting requirements will be the responsibility of the selected Contractor and should be included in the total cost for the project.
3. Construction and Project Management shall be included in the total cost for the project, but will not be shown or charged as a separate line item.
4. Quality Control Testing will be the responsibility of the selected Contractor for all Work.
5. Dewatering shall be distributed across each project based on the selected Contractor's assumed level of effort for each project.
6. The selected Contractor will be responsible for verification and measurement of all quantities presented in the Bid Tab.

Lake 4 Dam Rehabilitation:

1. Bid Item G. This cost shall include excavating, transporting, and stockpiling Flood Sediment. Additional costs for compaction and placement at the designated locations included in subtasks 1-10. The estimated 250,000 cubic yards (CY) of material is the total amount of the flood deposited sediment to be removed from Lake 4.
2. Bid Item G.1. Additional costs for compaction and placement of the 21,000 CY of material to meet the Lake 4 Dam Rehabilitation Plans and Specifications shall be included with Bid Item I.2.
3. Bid Item G.2. Additional costs for compaction and placement of the 50,000 CY of material to meet the Lake 4 Dam Rehabilitation Plans and Specifications shall be included with Bid Item M.3.
4. Bid Item G.3. Additional costs for compaction and placement of the 7,720 CY of material shall be included with the West Lake Dam Rehabilitation Bid Item D.2. The volume included in this bid item is based on Bank CY at Lake 4 and Compacted CY as part of the West Lake Dam Rehabilitation Bid Item D.2. The West Lake Dam Rehabilitation project assumed a shrink factor of 0.90 for placement and compaction of this material. Resulting in 6,950 CY included in West Lake Dam Rehabilitation Bid Item D.2 and referenced in West Lake Dam Rehabilitation Bid Item D.3.
5. Bid Item G.4. Additional costs for compaction and placement of the 9,880 CY of material shall be included with the A-frame Reservoir Rehabilitation Bid Item H.3. The volume included in this bid item is based on Bank CY at Lake 4 and Compacted CY as part of the A-frame Reservoir Rehabilitation Bid Item H.3. The A-Frame Reservoir Rehabilitation project assumed a shrink factor of 0.90 for placement and compaction of this material. Resulting in 8,890 CY included in A-frame

Reservoir Rehabilitation Bid Item H.3 and referenced in A-frame Reservoir Rehabilitation Bid Item H.2.

6. Bid Item G.5. Additional costs for placement of 15,000 CY of material shall be included with the BCPOS Projects Bid Item 1. This material shall be placed in accordance with the work description in Project Worksheet 1198 included in Attachment O.
7. Bid Item G.6. Additional costs for placement of 2,500 CY shall be included with BCPOS Projects Bid Item 2. The material shall be placed and compacted to meet the A-frame Specifications within the Ramey Headcut area as identified in Attachment O.
8. Bid Item G.7. 20,000 CY shall be hauled and stockpiled at 5201 St Vrain Rd, Longmont, CO 80503 for future Boulder County projects. Additional costs for hauling and stockpiling should be included in BCPOS Projects Bid Item 3.
9. Bid Item G.8. Additional costs for placement and grading of this material shall be included in West Lake Bid Item D.9 as a unit price. The 152,200 CY estimated is the maximum allowable storage volume in the West Lake Sediment Disposal Area.

West Lake Dam Rehabilitation:

1. Bid Item C.2. Vehicle Tracking Control Pads shall be accounted for in A-Frame Reservoir Rehabilitation Bid Item B.3. Since the location identified for each project is the same no cost should be provided for this line item.
2. Bid Item C.3. Concrete Washout Area shall be accounted for in A-Frame Reservoir Rehabilitation Bid Item B.4. Since the location identified for each project is the same no cost should be provided for this line item.
3. Bid Item D.2. Quantity is reported as Compacted CY assuming a shrink factor of 0.9. Material from Bid Item D.1. is reported as Bank CY and was assumed to be used for backfilling. The quantity from Bid Item D.1 equates to 20,250 Compacted CY.
4. Bid Item D.3. 27,200 Compacted CY – 20,250 Compacted CY requires 6,950 Compacted CY to be imported from Lake 4. 7,720 Bank CY of material will be needed from Lake 4 (Lake 4 Dam Rehabilitation Bid Item G.5).

A-Frame Reservoir Rehabilitation:

1. Bid Item H.2. 14,000 Compacted CY – 5,110 Compacted CY requires 8,890 Compacted CY to be imported from Lake 4. 9,880 Bank CY of material will be needed from Lake 4 (Lake 4 Dam Rehabilitation Bid Item G.6).
2. Bid Item H.3. Quantity is reported as Compacted CY assuming a shrink factor of 0.9. Material from Bid Item C.1 and H.1 is reported as Bank CY and was assumed to be used for backfill. The quantity from Bid Items C.1 and H.1 equates to 5,110 Compacted CY.

Lake 4 Outlet Pipeline Replacement:

1. Bid Item 18 is an alternative Bid Item. Provide unit cost only.

BCPOS Projects:

1. Bid Item 1. This material will be used to rebuild the Clough and True Embankment as described in Project Worksheet 1198. This material shall be placed in accordance with the work description in Project Worksheet 1198 included in Attachment O.
2. The material shall be placed and compacted to meet the A-frame Specifications within the Ramey Headcut area as identified in Attachment O.
3. 20,000 CY shall be hauled and stockpiled at 5201 St Vrain Rd, Longmont, CO 80503 for future Boulder County projects. This item will include installation of all permanent Sediment Control Measures for the stockpile.

BID TAB:

Lake 4 Dam Rehabilitation					
Item	Description	Quantity	Units	Unit Cost	Total Cost
A.	Mobilization	1	LS		
B.	Surveying	1	LS		
C.	Clearing and Grubbing				
1	Lake 3 Embankment	5.8	Acre		
2	Lake 4 Dam	4.4	Acre		
D.	Dewatering				
1	Initial Dewatering	1	LS		
2	Dewatering Control	1	LS		
3	Maintaining Base Flow	1	LS		
E.	Stormwater and Erosion Control				
1	Silt Fence	1,500	LF		
2	Erosion Control Bales	8	EA		
3	Tracking Pad	2	EA		
4	Storm Water Management Plan	1	LS		
F.	Traffic Control	1	LS		
G.	Excavation and Disposal of Flood Sediment	250,000	CY		
1	Lake 4 Dam Rehabilitation	21,000	CY	Lake 4 Bid Item I.2	
2	Lake 3 Embankment	50,000	CY	Lake 4 Bid Item M.1	
3	West Lake Dam Rehabilitation	7,720	CY	West Lake Bid Item D.2	
4	A-Frame Dam Rehabilitation	9,880	CY	A-Frame Bid Item H.3	
5	Clough & True Ditch Placement	15,000	CY	BCPOS Projects Bid Item 1	
6	Ramey Headcut	2,500	CY	BCPOS Projects Bid Item 2	
7	BCPOS Projects	20,000	CY	BCPOS Projects Bid Item 3	
8	West Lake Sediment Disposal	144,900	CY	West Lake Bid Item D.7	
H.	Material Quantity Record	1	LS		
I.	Dam Rehabilitation				
1	Grading - Cut	12,000	CY		
2	Grading - Fill	33,000	CY		
3	Clay Core - Cut	200	CY		
4	Clay Core	3,000	CY		
5	Bedding Material	2,500	Tons		
5	Riprap - Class 12	8,800	Tons		
J.	Drain				
1	Slotted and Non-Slotted PVC	1,000	LF		
2	Zone 3 Sand	5,000	Tons		
3	Zone 4 Gravel	2,000	Tons		
4	Manholes	4	EA		
5	Toe Drain Outlet Structures - Concrete	4	CY		
6	Weirs	2	EA		
K.	Primary Outlet				
1	Remove Existing Control Tower and Outlet Pipe	1	LS		
2	Excavation and Backfill	6,000	CY		
3	Tower 1 - Concrete	125	CY		

Lake 4 Dam Rehabilitation					
Item	Description	Quantity	Units	Unit Cost	Total Cost
4	Tower 1 - Building	1	LS		
5	Tower 1 - Gage	1	LS		
6	Tower 1 - Trash Rack	1	LS		
7	Tower 2 - Concrete	75	CY		
8	Tower 2 - Railing	1	LS		
9	Gate/thimble/stem	2	EA		
10	Outlet Piping - 24" DIP	150	LF		
11	Concrete Encasement Through Dam	100	CY		
12	Bridge 1 - 67 ft long	1	LS		
13	Bridge 2 - 40 ft long	1	LS		
14	Bridge Abutments - Concrete	15	CY		
L.	Emergency Spillway				
1	Grade Control Beam - Concrete	110	CY		
2	Bedding Material	1,200	Tons		
3	Riprap - Class 18	5,700	Tons		
M.	Lake 3 Embankment				
1	Grading - Fill	50,000	CY		
2	Cut into Bedrock for Clay Core Key	3,000	CY		
3	Clay Core	5,000	CY		
4	Zone 3 Sand	1,900	Tons		
5	Bedding Material	700	Tons		
6	Riprap – Class 12	2,500	Tons		
N.	Lake 3 Embankment Spillway				
1	Riprap - Class 18	6,500	Tons		
2	Bedding Material	2,000	Tons		
3	Grade Control Beam - Concrete	110	CY		
O.	Irrigation Inlet				
1	Riprap - Class 12	400	Tons		
2	Bedding Material	100	Tons		
P.	Road Base				
1	Lake 3 Embankment	230	Tons		
2	Lake 4 Dam	380	Tons		
Q.	Fine Grade, Top Soil, Seeding				
1	Lake 3 Embankment - (i) Fine Grade	5.8	Acre		
2	Lake 3 Embankment - (ii) Top Soil	5.8	Acre		
3	Lake 3 Embankment - (iii) Seed, Soil Amendment, and Mulching	5.8	Acre		
4	Lake 4 Dam - (i) Fine Grade	4.4	Acre		
5	Lake 4 Dam - (ii) Top Soil	4.4	Acre		
6	Lake 4 Dam - (iii) Seed, Soil Amendment, and Mulching	4.4	Acre		
R.	Wildlife Conservation Measures	1	LS		
	Total Cost				

West Lake Dam Rehabilitation					
Item	Description	Quantity	Units	Unit Cost	Total Cost
A.	Site Preparation				
1	Mobilization & Demobilization	1	LS		
2	Clearing and Grubbing	4.7	AC		
3	Dewatering	1	LS		
4	Traffic Control	1	LS		
B.	Demolition				
1	Demolition - Remove and Dispose of Existing 5'-10" x 6'-6" CMP Foothills Outlet Ditch and Debris	210	LF		
2	Demolition - Remove and Dispose of Existing 30" CMP W Lake Outlet	100	LF		
3	Demolition - Remove and Dispose of Existing Power Pole	1	LS		
4	Demolition - Remove and Dispose of Existing 20" CMP Clough and True Outlet Ditch Pipe	50	LF		
5	Demolition - Remove and Dispose of Foothills Outlet Ditch South Branch Siphon Structures	1	LS		
6	Demolition - Remove and Dispose of 8.5' x 10' CMP Foothills Outlet Ditch Culvert	60	LF		
C.	Erosion and Sediment Control				
1	Furnish and Place Construction Fence	1,968	LF		
2	Furnish and Place Vehicle Tracking Control Pads	0	EA		
3	Furnish and Place Concrete Washout Area	0	EA		
D.	Earthwork				
1	Earthwork - Excavation (Cut)	22,500	CY		
2	Earthwork Backfill	27,200	CY		
3	Borrow Fill for Use in W Lake Project	6,950	CY	Quantity provided for reference	
4	Furnish and Place Clay Core (Imported from Swede Lake)	3,620	CY		
5	Furnish and Place Filter Zone 3A Material (ASTM C33 Aggregate Sand)	177	CY		
6	Furnish and Place 6" Riprap for Upstream Embankment Protection	215	CY		
7	Furnish and Place Type II Bedding for Upstream Embankment Protection	108	CY		
8	Excavate Lake 4 Sediment and Transport to West Lake for Disposal	152,200	CY	Quantity provided for reference	
9	Sediment Disposal Grading in W Lake	152,200	CY		
E.	Siphons				

West Lake Dam Rehabilitation					
Item	Description	Quantity	Units	Unit Cost	Total Cost
1	Furnish and Place Complete Foothills Outlet Ditch Siphon Structure	1	LS		
2	Furnish and Place Complete Clough and True Siphon Structure	1	LS		
3	Furnish and Place Sand Filter Collar (ASTM #8 Coarse Aggregate) Surrounding Siphons	685	CY		
4	Furnish and Place 9" Riprap	4	CY		
5	Furnish and Place 12" Riprap	340	CY		
6	Furnish and Place Type II Bedding	172	CY		
7	Furnish and Place 8" Siphon Drain Line	190	LF		
8	Furnish and Place Filter Diaphragm (C33 Concrete Sand) on Siphon Drain Line	107	CY		
9	Furnish and Install Foothills Outlet Ditch Lateral Crossing Culverts (18" Dia. CMP)	2	LS		
10	Furnish and Install Foothills Outlet Ditch Pre-Cast Reinforced Concrete Box Culvert	1	LS		
F.	Outlet				
1	Furnish and Place Concrete-Encased Outlet Pipe	269	LF		
2	Furnish and Place C33 Concrete Sand for Filter Diaphragm	85	CY		
3	Furnish and Place 6"x6" Outlet Gate, Stem, Control	1	LS		
4	Furnish and Place 18"x18" Outlet Gate, Stem, Control	1	LS		
5	Furnish and Place Trash Rack	1	LS		
6	Furnish and Place Gated Pedestrian Bridge with Handrail	1	LS		
7	Furnish and Place Concrete Inlet Tower	33	CY		
8	Furnish and Place Concrete Headwall and Apron at Outlet	8	CY		
9	Furnish and Place 12" Parshall Flume and Stilling Well	1	LS		
10	Furnish and Place Riprap for Energy Dissipation Basin (18" Dia.)	72	CY		
11	Furnish and Place Bedding for Energy Dissipation Basin	36	CY		
12	Furnish and Place Riprap at Outlet Tower (6" dia.)	68	CY		
13	Furnish and Place Bedding at Outlet Tower	34	CY		
14	Furnish and Place Concrete Channel at Outlet	3.3	CY		

West Lake Dam Rehabilitation					
Item	Description	Quantity	Units	Unit Cost	Total Cost
G. Spillway					
1	Furnish and Place 18" d50 Type H Soil Riprap (Spillway down to Normal Water Surface Elevation)	2,953	CY		
2	Furnish and Place 18" d50 Type H Soil Riprap (Spillway below Normal Water Surface Elevation)	399	CY		
3	Furnish and Place Type II Bedding (For Spillway)	1,676	CY		
4	Furnish and Place Topsoil - Top Layer on Soil Riprap Spillway	559	CY		
5	Furnish and Place Spillway Cutoff Wall	50	CY		
H. Stabilization and Revegetation					
1	Wetland Revegetation - Prepare Surface; Seeding and Mulching	0.4	AC		
2	Upland Revegetation - Prepare Surface; Soil Amendment, Seeding and Mulching	3.85	AC		
3	Import and Place Topsoil (6" Depth)	2,296	CY		
I. Survey and Testing					
1	Survey	1	LS		
2	Concrete and Geotechnical Testing	1	LS		
J. Wildlife Conservation Measures					
1	Wildlife Conservation Measures	1	LS		
Total					

A-frame Reservoir Rehabilitation					
Item	Description	Quantity	Units	Unit Cost	Total Cost
A.	Site Preparation				
1	Mobilization & Demobilization	1	LS		
2	Clearing and Grubbing	1	AC		
3	Dewatering	1	LS		
B.	Erosion and Sediment Control				
1	Furnish and Place Silt Fence	800	LF		
2	Furnish and Place Construction Fence	800	LF		
3	Furnish and Place Vehicle Tracking Control Pads	2	EA		
4	Furnish and Place Concrete Washout Area	1	EA		
5	Traffic Control	1	LS		
C.	Earthwork for Installation of Weir, Culvert, Cutoff Walls and Wingwalls at Outlet				
1	Excavation	5,600	CY		
2	Import Clay Material	300	CY		
3	Demolition - Dispose of Existing 36" CMP and Debris	1	LS		
4	Foundation Re-compaction for Concrete Structures	200	CY		
D.	Furnish and Place Concrete Weir and Inlet Structure				
1	Furnish and Place Reinforced Concrete Weir and Inlet Structure	310	CY		
2	Furnish and Place Ballast Concrete for Weir	42	CY		
3	Furnish and Place Slide Gate, 8"x8"	1	LS		
4	Furnish and Place Inlet Trashrack	1	LS		
5	Furnish and Install Access Ladder for Weir	1	LS		
6	Structural Backfill for Inlet	120	CY		
E.	Furnish and Place Concrete Cutoff Walls				
1	Furnish and Place Reinforced Concrete Cutoff Walls	200	CY		
F.	Furnish and Place 5'x10' Reinforced Concrete Box Culvert				
2	Furnish and Place 5'x10' Reinforced Concrete Box Culvert	336	LF		
G.	Furnish and Place Reinforced Concrete Wingwalls at Outlet				
1	Furnish and Install Reinforced Concrete Wingwalls at Outlet Structure	58	CY		
2	Furnish and Place Soil Riprap at Outlet (Type M)	25	CY		
H.	Earthwork for Final Grading and Stabilization				

A-frame Reservoir Rehabilitation					
Item	Description	Quantity	Units	Unit Cost	Total Cost
1	Excavation	79	CY		
2	Borrow Fill from Local Source (Lake 4)	8,890	CY	Quantity provided for reference	
3	Backfill	14,000	CY		
I.	Stabilization and Revegetation				
1	Furnish and Place Turf Reinforcement Mat	10,000	SY		
2	Furnish and Place Erosion Control Blanket at Outlet	70	SY		
3	Wetland Revegetation - Prepare Surface, Seeding and Mulching	0.1	AC		
4	Upland Revegetation - Prepare Surface, Soil amendment, Seeding, and Mulching	0.3	AC		
5	Pasture Revegetation - Prepare Surface, Seeding, and Mulching	1.7	AC		
6	Import and Place Topsoil (6")	1,600	CY		
J.	Furnish and Place Aggregate Base Course (14") on 61st Street				
1	Furnish and Place 14" Aggregate Base Course (61st Street)	520	CY		
K.	Survey and Testing				
1	Survey	1	LS		
2	Concrete and Geotechnical Testing	1	LS		
J.	Wildlife Conservation Measures				
1	Wildlife Conservation Measures	1	LS		
	Total				

Lake 4 Outlet Pipeline Replacement					
Item	Description	Quantity	Units	Unit Cost	Total Cost
1	Mobilization, Bonding and Insurance	1	LS		
2	Dewatering Excavations	1	LS		
3	Locate and Survey Existing 18-inch RCP Pipeline	1	LS		
4	Access Manhole #1	1	LS		
5	Access Manhole #2	1	LS		
6	Access Manhole #3	1	LS		
7	Access Manhole #4	1	LS		
8	Electrical Service to Access Manhole #4	1	LS		
9	14-inch HDPE Slip-lining of Existing 18-inch RCP Pipeline	2,015	LF		
10	18-inch HDPE Cut and Cover Pipeline	310	LF		
11	18-inch DIP Pipe and Fittings	1	LS		
12	Full Pipeline System Pressure Leak Test and Video Inspection	1	LS		
13	North 61st Street Road Crossing	1	LS		
14	Measurement Structure	1	LS		
15	Parshall Flume and Stilling Well	1	LS		
16	Remove Existing Measurement Structure	1	LS		
17	Site Restoration and Revegetation	1	LS		
18	Alternate Bid Item – Rock Stabilization Material (provide unit price only)	1	CY		
	Total				

BCPOS Projects					
Item	Description	Quantity	Units	Unit Cost	Total Cost
1	Clough & True Ditch Placement	1	LS		
2	Ramey Headcut	1	LS		
3	BCPOS Projects –Parks and Open Space Building	1	LS		
	Total				



Boulder County Purchasing
 1325 Pearl Street
 Boulder, CO 80302
purchasing@bouldercounty.org

SUBMITTAL SECTION

THIS CHECKLIST MUST BE SUBMITTED AS PART OF YOUR BID PACKAGE.

Please submit the following information in the order listed below. In order to be eligible for consideration, Contractor must submit all information as requested herein. Omission of any of the required information may be grounds to reject the Contractor’s bid from further consideration.

Contractor shall also submit a fully completed Contractor Qualification Statement (see Attachment B) to demonstrate these criteria.

Bidder will check each box indicating compliance:

INCLUDED	ITEM
	Technical ability, capacity, experience and skill of the contractor, and key team members assigned to the project.
	Past experience of the company having successfully completed projects of similar size and complexity.
	Quality and/or performance of work provided on previous projects.
	References and recommendations from former customers and/or design engineers and clients.
	Financial ability, sufficiency of resources, and bonding capacity to undertake and successfully complete the project.
	Organization and completeness of the Contractor Qualification Statement
	Additional relevant project information provided by the contractor.
	Conceptual baseline schedule showing major construction activities and constraints identified in this bid (i.e., Foothills Outlet Ditch, Wildlife Closures, etc.) .
	Conceptual dewatering plans and dewatering qualifications (including any subcontractors).
	Ability to commence the work within ten (10) days of approval of all Contractor-required permits and to complete construction within 320 calendar days from the date of mobilization.
	SAMPLE Certificate of Insurance
	W-9
	Contractor’s Duns Number
	Certificate of Good Standing
	SAM.Gov registration
	Boulder County Collaborative Addendum Documents
	Signature Page

Failure to submit any of the documents listed below as a part of your BID, or failure to acknowledge any Addendum in writing with your BID, or submitting a BID on any condition, limitation or provision not officially invited in this Invitation to Bid may be cause for rejection of the BID.



Boulder County Purchasing
1325 Pearl Street
Boulder, CO 80302
purchasing@bouldercounty.org

SIGNATURE PAGE

Contact Information	Response
Company Name including DBA	
List Type of Organization (Corporation, Partnership, etc.)	
Name, Title, and Email Address of Person Authorized to Contract with Boulder County	
Company Address	
Company Phone Number	
Company Website	

By signing below I certify that:

- I am authorized to bid on my company's behalf.
- I am not currently an employee of Boulder County.
- None of my employees or agents is currently an employee of Boulder County.
- I am not related to any Boulder County employee or Elected Official.
- (Sole Proprietorships Only) I am not a Public Employees' Retirement Association (PERA) retiree.

**Signature of Person Authorized to Bid on
 Company's Behalf**

Date

Note: If you cannot certify the above statements, please explain in a statement of explanation.