



INVITATION TO BID

Bid Package

Montrose County

3- Sided Precast Concrete Box Culvert (B-145)

Bids Due and Opening

September 23, 2021

Time: 2:00 p.m.

**Montrose County Public Works
63160 LaSalle Rd
Montrose, CO 81401**

General Bid Information

Montrose County is accepting sealed bids for a 3-sided precast concrete box culvert.

Bid Packages can be downloaded from Montrose County's web site using the following link: <http://www.montrosecounty.net/Bids.aspx>. For further information, please contact Brandon Wallace at 970-252-7003 or e-mail at bwallace@montrosecounty.net.

Bidder Instructions

Submitted bids must be enclosed in a sealed opaque envelope marked "**Precast Box Concrete Culvert B-145 Bid**" with the name of the bidder and delivered to Montrose County Public Works, Attn: Keith Laube, 63160 LaSalle Rd, Montrose, CO 81401, no later than **2 p.m. local time, September 23, 2021**. The bids will be opened immediately thereafter and read aloud. Bids received after the time due will not be considered and will be returned to the bidder un-opened.

Bids are to be submitted on the Bid Forms included within the bid package. Bidder must provide the Bid Price for individual bid items and the Total Bid Price on the Bid Schedule Form. In case of discrepancy on the Bid Schedule Form, the Bid Price for individual items governs.

Any bid questions must be received by 2 pm local time, September 16, 2021.

Any modifications to the Invitation to Bid package will be an Addendum and posted to the County website by 5 pm, September 17, 2021 and distributed to all known bidders. It is the responsibility of the bidder to verify if an addendum has been issued. **Bidder shall acknowledge Addenda in the Bid and Addenda Acknowledgment section of the Bid Form.**

General Conditions

All bids shall be irrevocable for 45 days from the date of the bid opening.

The successful bidder will be issued a Purchase Order.

Payment to Contractor will be made upon delivery of the box culvert to the project site and approval of invoice. Payment will follow normal County payment processing cycles for issuance of checks.

Awarding of Bid

Award may be made to the lowest responsive, responsible bidder meeting applicable county and state requirements. In reviewing the bids received, the County reserves the right to reject, for any reason whatsoever, any and all bids, and to waive any informality or irregularity in a bid. The County reserves the right to accept the bid that provides the best value to the County in the County's sole discretion. The County reserves the right to make a determination in the County's sole discretion as to the sufficiency of qualifications of any bidder. The action to award a contract is subject to approval by the Board of County Commissioners. The submission of a bid does not

in any way commit the County to enter into an agreement or contract with that bidder. It is anticipated that award of the contract will be made within two (2) weeks of the bid opening. All bidders will be notified of the Commissioners decision. Within three weeks of award, any required submittals will be due. A purchase order will be used for authorization to proceed.

Schedule of the Work

- This structure is intended for installation in an irrigation canal at an elevation of 5700 feet.
- The bridge replacement project is scheduled to be completed by County crews during the winter of 2021-2022 when there are no irrigation flows. Site preparation will take several weeks after the end of the irrigation season, which typically ends in November. Irrigation season begins late March.

Requirements of Successful Bidder

- Provide complete structural design including plans stamped by a Colorado Registered Professional Engineer.
- Manufacturer's in-house specifications controlling production of this type of structure.
- Manufacturer's quality control / quality assurance methods and procedures.
- Manufacturer's standard concrete testing protocol.
- Manufacturer's standard joint detail between adjacent box segments.
- Assurance that manufacturer has sufficient trucking capacity be able to deliver all precast components within a 48-hour period.
- Furnish a completed Form W-9 "Request for Taxpayer Identification Number and Certification".

Additional Terms and Scope of Services

1. The bidder shall meet the specifications as shown on Attachment "A" – Specifications for Precast Concrete Box Culvert and on the Construction Plans prepared by Buckhorn Engineering dated June 23, 2021.
2. Contractor shall deliver the precast concrete box culvert sections to the project site no later than January 25, 2022. The project site is located approximately 6 miles south of Montrose, Colorado. More particular, the site is on Highway 550 Frontage Road, approximately 0.2 miles south of Government Springs Road.
3. If the delivery deadline date is not met, the County may assess liquidated damages against the Contractor in the amount of \$200.00 for each calendar day beyond the deadline date.

4. County crews will install the concrete box culvert. County will coordinate equipment for unloading the concrete box culvert from the manufacturer's delivery truck(s). County will be responsible for all cast-in-place concrete.

Attachment “A” – Specifications for 3-Sided Precast Concrete Box Culvert

1. Manufacturer shall provide structural design for the Precast Box Culvert in accordance with the following criteria:
 - a. Traffic Loading: AASHTO HL 93
 - b. Dead Loading: Depth of aggregate backfill of 0 to 3 feet
 - c. Design Standard: ASTM C-1577-17: AASHTO - LRFD
 - d. Inside dimensions shall be consistent with Construction Plans prepared by Buckhorn Engineering dated June 23, 2021.
 - e. Exterior dimensions (based upon wall & lid thickness) shall be determined by structural engineer.
 - f. Concrete shall be Type I/II sulfate resistant Portland Cement.
 - g. Minimum clear cover on reinforcement shall be 1½ inches on all surfaces except the top deck, which shall have 2 inches minimum clear cover.
 - h. Epoxy coated reinforcement is not desired.
 - i. Design shall be stamped & signed by a Colorado Registered Professional Engineer.
2. The structural engineer shall provide structural drawings and a report detailing the engineer’s methods, assumptions, and results of the structural analysis for review by the County.
3. Concrete clear cover on reinforcing underneath the keyway cast in the end box segments shall not be less than ACI minimum values.
4. Manufacturer shall test concrete during casting operations in conformance with manufacturer’s testing protocol as provided to, and approved by, the County.
5. Manufacturer shall submit shop drawings for review by County prior to ordering reinforcing steel and specialty components.
6. Shop drawings shall detail cast in place anchors for rebar extensions into County cast entrance and discharge slabs and wingwalls. Wingwalls will be cast directly against the mating surface of the end box segments. County solicits manufacturer’s recommendations regarding corrosion protection where rebar may be exposed to water at the juncture between the precast box and the field cast slabs.
7. Manufacturer shall determine the size of individual segments of the box culvert based on highway transport weight limit criteria.
8. Manufacturer shall provide lifting anchors in the precast components and lifting instructions to facilitate installation of the structure.
9. Manufacturer shall furnish lifting hardware to connect with lifting and installation anchors for use during installation. Owner will return lifting hardware to manufacturer immediately upon completion of installation.

10. Manufacturer shall provide County with copies of all materials testing results generated during the manufacturing process.
11. Manufacturer shall provide joint sealing materials in conformance with the approved shop drawings.
12. Manufacturer's price shall include delivery of the precast box culvert segments to the job site. Manufacturer shall provide a sufficient trucking capacity to deliver all precast components to the site within 2 working days. Delivery shall be provided at intervals through the course of the delivery in accordance with a schedule to be provide by the installation foreman.
13. Precast concrete box culvert sections shall be new.
14. There are no steel embedded plates required for this box culvert. The following sentence from the note on sheet D1 of the construction plans from Buckhorn Engineering, dated June 23, 2021 shall be ignored: *"Each segment shall be fabricated with steel embed plates for field-welded connections."*

BIDDER INFORMATION
3-Sided Precast Concrete Box Culvert (B-145)

Bidder: _____

Address: _____

Phone Number: _____

E-Mail Address: _____

Representative's Signature _____

Printed Name of Signer _____

Title _____

Date _____

Exceptions or Comments

BID SCHEDULE FORM
3-Sided Box Precast Concrete Culvert (B-145)

| <u>Bid Item Description</u> | <u>Bid Price</u> |
|---|-------------------------|
| Structural design including signed and stamped drawings | _____ |
| Precast concrete box culvert: 3-sided box, single cell, inside dimensions of 3 feet high by 18 feet wide and flowline length of 43 feet; | _____ |
| Freight, FOB destination | _____ |
| Total Bid Price | _____ |
| *Bid price shall be FOB destination, which is the B-145 bridge site on Hwy 550 Frontage Road located approximately 0.18 miles south of Government Springs Rd, Montrose, Colorado. Pricing is to be free of sales tax. | |
| Specific warranties included in Bid Price: _____ _____ | |
| Estimated delivery time after receipt of purchase order: _____ | |

**BID AND ADDENDA ACKNOWLEDGMENT
3-Sided Box Precast Concrete Culvert (B-145)**

The undersigned, having carefully read and considered the Invitation to Bid for the Montrose County Precast Concrete 3-Sided Box Culvert (B-145) bid, does hereby offer to supply such services to the County of Montrose, Colorado in the manner described and subject to the Contract Documents.

The undersigned acknowledges receipt of addenda (if any). **The undersigned shall initial after the appropriate item(s):**

Acknowledgment of Addendum #1: _____

Acknowledgment of Addendum #2: _____

Acknowledgment of Addendum #3: _____

The undersigned further states that this bid is made and submitted in good faith and is not founded on, or in consequence of, any collusion, anticompetitive agreement or other type of anticompetitive activities between themselves and any other interested party, in restraint of free competition.

Bidder Business Name _____

Authorized Representative Signature _____

Authorized Representative Name & Title (print)

Date _____