

**Water Supply Reserve Fund – Grant and Loan Program**  
**Water Activity Summary Sheet**  
**March 22-23, 2017**  
**Agenda Item 24(g)**

**Applicant & Grantee:** Montezuma County

**Water Activity Name:** Rehabilitate the Wooden Trough of the McElmo Creek Flume

**Water Activity Purpose:** Education Implementation

**County:** Montezuma

**Drainage Basin:** Southwest

**Water Source:** McElmo Creek

**Amount Requested/Source of Funds:** \$20,000 Southwest Basin Account

**Matching Funds:** Applicant Match: \$196,104 (cash & in-kind) =

- 980% of the Basin Account request (meets 25% min)
- 89.5% of the total project cost of \$241,472

|                              |
|------------------------------|
| <b>Staff Recommendation:</b> |
|------------------------------|

|   |
|---|
| Staff recommends approval of up to \$20,000 from the Southwest Basin Account to help fund the project titled: Rehabilitate the Wooden Trough of the McElmo Creek Flume. |
|---|

**Water Activity Summary:** WSRF grant funds, if approved, will assist in the repairs to the wooden trough of the McElmo Creek Flume – the last of the 104 flumes originally built on the Montezuma Valley Irrigation System in the 1890s. A significant portion (87%) of the funding needed to rehabilitate the entire structure has already been secured. The Flume has been out of use since 1992 and has deteriorated rapidly due to water and wind events. In 2016, repairs to the foundation of the Flume were completed, as well as the new interpretive stop/parking lot on the Trail of the Ancients. Repairs to the wooden trough comprise the final phase and basis for this request; while basin funds, will be used for general physical repairs (of deteriorated frame, stringers, and sills), project is primarily an educational one and will not affect any water supplies. Without the construction of this irrigation system, which allowed ranching and farming to prosper, Montezuma County and the City of Cortez would not have developed. Located on a major southern Colorado highway (160), the interpretive stop is passed by hundreds of people daily, including half million people who visit Mesa Verde National Park every year.

**Discussion:** As described in the Southwest Basin Roundtable Chair’s Recommendation Letter, this project is explicit in the Southwest Basin Implementation Plan (SWBIP) Multi-Basin IPP #16-DM: *“Rehabilitation of the McElmo Creek Flume.”* This project assists in satisfying Colorado’s Water Plan Critical Goals and Actions as identified in *Chapter 10.3.H: Education, Outreach, and Innovation* by creating a new opportunity for the public to learn about the water history of the Montezuma Valley.

**Issues/Additional Needs:** Staff will work cooperatively with the grantee to ensure total project cost of \$241,471 is met and to obtain all necessary letters of commitment from secured and pending funders.

**Eligibility Requirements:** The application meets requirements of the three subsections of the Eligibility Requirements: General Eligibility, Entity Eligibility, and Water Activity Eligibility.

**Eligibility Based on Funding Match Requirements:** This application meets the Basin Account Matching requirements.

**Evaluation Criteria:** This activity has undergone review and evaluation and staff has determined that it satisfies the Evaluation Criteria. Please refer to Basin Roundtable Chair's Recommendation Letter and the WSRF Grant Application for applicant's detailed response.

**Funding Summary / Matching Funds:**

| <b><u>Funding Source</u></b>          | <b><u>Cash</u></b> | <b><u>In-kind</u></b> | <b><u>Total</u></b> |
|---------------------------------------|--------------------|-----------------------|---------------------|
| Colorado State Historical Fund        | \$181,104          | \$0                   | \$181,104           |
| Southwest Water Conservation District | \$15,000           | \$0                   | \$15,000            |
| Ballantine Family Fund                | \$5,000            | \$0                   | \$5,000             |
| Pending Source*                       | \$20,000           | \$0                   | \$20,000            |
| <b>Subtotal Matching Funds</b>        | <b>\$221,104</b>   | <b>\$0</b>            | <b>\$221,104</b>    |
| WSRA Southwest Basin Account          | \$20,000           | \$0                   | \$20,000            |
| <b>Total Project Costs</b>            | <b>\$241,472</b>   | <b>\$0</b>            | <b>\$241,472</b>    |

\*Potential funding sources identified include Ute Mountain Ute Tribe, National Trust for Historic Preservation, and Montezuma County Historical Society

**CWCB Project Manager:** Megan Holcomb

All products, data, and information developed as a result of this grant must be provided to the CWCB in hard copy and electronic format as part of the project documentation. This information will in-turn be made widely available to Basin Roundtables and the general public and will help promote the development of a common technical platform. In accordance with the revised WSRF Criteria and Guidelines, staff would like to highlight additional reporting and final deliverable requirements. The specific requirements are provided below.

**Reporting:** The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of the executed contract. The progress report shall describe the completion or partial completion of the tasks identified in the scope of work including a description of any major issues that have occurred and any corrective action taken to address these issues.

**Final Deliverable:** At completion of the project, the applicant shall provide the CWCB a final report that summarizes the project and documents how the project was completed. This report may contain photographs, meeting summaries, and engineering reports/designs.

**Engineering:** All engineering work (as defined in the Engineers Practice Act (§12-25-102(10) C.R.S.)) performed under this grant shall be performed by or under the responsible charge of a professional engineer licensed by the State of Colorado to practice engineering.

**SOUTHWEST BASINS ROUNDTABLE**

**Michael Preston, Chair**  
**c/o Dolores Water Conservancy District**  
**P.O. Box 1150**  
**Cortez, Colorado 81321**  
**970-565-7562**

January 16, 2017

Mr. Craig Godbout  
Water Supply Management Section  
Colorado Water Conservation Board  
1580 Logan Street, Suite 600  
Denver, Colorado 80203

SUBJECT: Rehabilitate the Wooden Trough, McElmo Flume - \$20,000 from Basin Fund

Dear Mr. Godbout:

The Southwest Basin Roundtable approved funding of \$20,000 from the Basin Fund to Rehabilitate of the Wooden Trough of the McElmo Flume, sponsored by the Montezuma County. The application was considered in detail at the January 11, 2017 meeting of the Southwest Basin Roundtable. There was a quorum of Roundtable members present.

This Project is IPP 16-DM. The project highlights the heritage of the City of Cortez as an irrigation water supply town and will display the unique craftsmanship involved in the construction of the flumes that made the historic Montezuma Irrigation Company delivery system work. Rehabilitating the wooden trough is the final step in a multi-faceted effort that has involved stabilizing the foundation, and building a pull-out on the Highway 160 entrance to Cortez near the Fairgrounds, and installing historic display panels. These phases have been completed. The project has leveraged substantial financial investment by the State Historic Preservation Program and a wide variety of matching sources.

The completed Grant Application will be forwarded directly to you by the applicant. Please contact the applicant directly or me at 970-565-7562, [mpreston@frontier.net](mailto:mpreston@frontier.net), if you have questions or wish to discuss this application in more detail.

Sincerely,



Michael Preston  
Southwest Basin Roundtable Chair



# COLORADO WATER CONSERVATION BOARD



## WATER SUPPLY RESERVE ACCOUNT APPLICATION FORM

Today's Date: December 29, 2016

Rehabilitate the Wooden Trough of the McElmo Creek Flume

### Name of Water Activity/Project

Montezuma County

### Name of Applicant

Amount from Statewide Account:

0

Amount from Basin Account(s):

20,000

Total WSRA Funds Requested:

20,000

### Approving Basin Roundtable(s)

*(If multiple basins specify amounts in parentheses.)*

FEIN:84-6000786

### Application Content

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| Water Rights, Availability, and Sustainability | page 10 |
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### Required Exhibits

- A. Statement of Work, Budget, and Schedule
- B. Project Map
- C. As Needed (i.e. letters of support, photos, maps, etc.)

### Appendices – Reference Material

- 1. Program Information
- 2. Insurance Requirements
- 3. WSRA Standard Contract Information (Required for Projects Over \$100,000)
- 4. W-9 Form (Required for All Projects Prior to Contracting)



## Water Supply Reserve Account – Application Form

Revised October 2013

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### **Instructions**

To receive funding from the Water Supply Reserve Account (WSRA), a proposed water activity must be approved by the local Basin Roundtable **AND** the Colorado Water Conservation Board (CWCB). The process for Basin Roundtable consideration and approval is outlined in materials in Appendix 1.

Once approved by the local Basin Roundtable, the applicant should submit this application **with a detailed statement of work including budget and schedule as Exhibit A** to CWCB staff by the application deadline.

WSRA applications are due with the roundtable letter of support 60 calendar days prior to the bi-monthly Board meeting at which it will be considered. Board meetings are held in January, March, May, July, September, and November. Meeting details, including scheduled dates, agendas, etc. are posted on the CWCB website at: <http://cwcb.state.co.us> Applications to the WSRA Basin Account are considered at every board meeting, while applications to the WSRA Statewide Account are only considered at the March and September board meetings.

When completing this application, the applicant should refer to the [WSRA Criteria and Guidelines](http://cwcb.state.co.us/LoansGrants/water-supply-reserve-account-grants/Documents/WSRACriteriaGuidelines.pdf) available at: <http://cwcb.state.co.us/LoansGrants/water-supply-reserve-account-grants/Documents/WSRACriteriaGuidelines.pdf>. In addition, the applicant should also refer to the [Supplemental Scoring Matrix](#) applied to Evaluation Criteria Tiers 1-3 for Statewide Account requests .

The application, statement of work, budget, and schedule **must be submitted in electronic format** (Microsoft Word or text-enabled PDF are preferred) and can be emailed or mailed on a disk to:

Craig Godbout - WSRA Application  
Colorado Water Conservation Board  
1313 Sherman St., Room 721  
Denver, CO 80203  
[Craig.godbout@state.co.us](mailto:Craig.godbout@state.co.us)

If you have questions or need additional assistance, please contact Craig Godbout at: 303-866-3441 x3210 or [craig.godbout@state.co.us](mailto:craig.godbout@state.co.us).

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### Part I. - Description of the Applicant (Project Sponsor or Owner);

|    |                    |   |                 |                      |
|----|--------------------|---|-----------------|----------------------|
| 1. | Applicant Name(s): | Montezuma County                                |                 |                      |
|    | Mailing address:   | 109 West Main St., Room 302<br>Cortez, CO 81321 |                 |                      |
|    | FEIN #:            | 84-60000786                                     |                 |                      |
|    | Primary Contact:   | James Dietrich                                  | Position/Title: | Community Services   |
|    | Email:             | jdietrich@montezuma.co.us                       |                 |                      |
|    | Phone Numbers:     | Cell: 970-570-9494                              | Office:         | 970-565-4702         |
|    | Alternate Contact: | Melissa Brunner                                 | Position/Title: | County Administrator |
|    | Email:             | mbrunner@montezuma.co.us                        |                 |                      |
|    | Phone Numbers:     | Cell:   | Office:         | 970-565-4154         |

### 2. Eligible entities for WSRA funds include the following. What type of entity is the Applicant?

- ☒ Public (Government) – municipalities, enterprises, counties, and State of Colorado agencies. Federal agencies are encouraged to work with local entities and the local entity should be the grant recipient. Federal agencies are eligible, but only if they can make a compelling case for why a local partner cannot be the grant recipient.
- ☐ Public (Districts) – authorities, Title 32/special districts, (conservancy, conservation, and irrigation districts), and water activity enterprises.
- ☐ Private Incorporated – mutual ditch companies, homeowners associations, corporations.
- ☐ Private individuals, partnerships, and sole proprietors are eligible for funding from the Basin Accounts but not for funding from the Statewide Account.
- ☐ Non-governmental organizations – broadly defined as any organization that is not part of the government.

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### 3. Provide a brief description of your organization

Montezuma County has extensive experience administering grants from many different funding agencies with many different funding levels and technical complexities. Montezuma County annually receives multiple federal and state grants and has an exemplary record in administering those grants on time and without complications.

Montezuma County has maintained an outstanding record working with the State of Colorado, in particular with DOLA and GOCO. The Montezuma County Fairgrounds Complex, for example (which is where the Flume is located) was constructed largely through DOLA and GOCO grants which helped to construct the indoor and outdoor arena, grandstands and trail network.

The Lewis/Arriola Community Center site plan was also funded in part by GOCO and administered by Montezuma County. This project included development of a baseball field, parking area, picnic facilities, rest rooms, a walking path, playgrounds and other assorted recreational amenities.

Montezuma County also has an established record with 3 State Historical Fund (SHF) grants to assess and rehabilitate the McElmo Creek Flume. In 2012, Montezuma County worked with the team of Ron Anthony of Anthony & Associates, Inc., Doug Porter of Conservation Associates Inc., Michael Nulty from the Center of Preservation Research at the University of Colorado, and Linda A. Towle, Historic Preservation Consultant, on the Archaeological Assessment of the McElmo Creek Flume. This grant was completed on time and within budget.

In 2013, Montezuma County was awarded a second SHF grant to conduct a foundation assessment of the Flume and produce construction documents. The addition of Carlo Citto of Atkinson-Noland & Associates, Inc. to the team of Anthony, Porter & Towle provided the engineering expertise to minimize interventions while maximizing retention of historic fabric and maintaining the integrity of the Flume. This grant resulted in repair recommendations to the steel and concrete substructure of the Flume, and construction documents for both the substructure and wooden flume repairs. This project was completed on time and within budget.

In 2014, Montezuma County was awarded a third SHF grant to repair the foundation. This work was completed by Triad Western of Cortez in the winter of 2016, on time and within budget.

In 2012, the County partnered with the Trail of the Ancients National Scenic Byway to construct a new stop on the Trail to interpret the McElmo Creek Flume and tell the water history of the Montezuma Valley. This new stop was completed in the summer of 2016.

Also in the summer of 2016, the County was awarded the FINAL SHF grant to repair the wooden trough of the Flume. This will complete the rehabilitation of the Flume, so that its function can be better understood at the new overlook.

The County's Community Service Director, James Dietrich, has served as the administrator for the 3 previous SHF grants for the Flume, and will be the administrator for this next grant.

3. If the Contracting Entity is different then the Applicant (Project Sponsor or Owner) please describe the Contracting Entity here.

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Not Applicable.

4. Successful applicants will have to execute a contract with the CWCB prior to beginning work on the portion of the project funded by the WSRA grant. In order to expedite the contracting process the CWCB has established a standard contract with provisions the applicant must adhere to. A link to this standard contract is included in Appendix 3. Please review this contract and check the appropriate box.

☒ The Applicant will be able to contract with the CWCB using the Standard Contract

☐ The Applicant has reviewed the standard contract and has some questions/issues/concerns. Please be aware that any deviation from the standard contract could result in a significant delay between grant approval and the funds being available.

5. The Tax Payer Bill of Rights (TABOR) may limit the amount of grant money an entity can receive. Please describe any relevant TABOR issues that may affect the applicant.

Montezuma County receives very little grant money annually. This grant request is relatively small and would not exceed our annual cap.

### Part II. - Description of the Water Activity/Project

1. What is the primary purpose of this grant application? (Please check only one)

☐ Nonconsumptive (Environmental or Recreational)

☐ Agricultural

☐ Municipal/Industrial

☐ Needs Assessment

☒ Education

☐ Other Explain:

2. If you feel this project addresses multiple purposes please explain.

Not applicable.

3. Is this project primarily a study or implementation of a water activity/project? (Please check only one)

☐ Study

☒ Implementation

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4. To catalog measurable results achieved with WSRA funds can you provide any of the following numbers?

New Storage Created (acre-feet)

New Annual Water Supplies Developed, Consumptive or Nonconsumptive (acre-feet)

Existing Storage Preserved or Enhanced (acre-feet)

Length of Stream Restored or Protected (linear feet)

Length of Pipe/Canal Built or Improved (linear feet)

Efficiency Savings (acre-feet/year OR dollars/year – **circle one**)

Area of Restored or Preserved Habitat (acres)

☒

Other -- Explain:

This project will not affect any water supplies.

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4. To help us map WSRA projects please include a map (Exhibit B) and provide the general coordinates below:

Latitude: 37d 20' 53.5"N

Longitude: 108d 30' 10.75"W

5. Please provide an overview/summary of the proposed water activity (no more than one page). Include a description of the overall water activity and specifically what the WSRA funding will be used for. A full **Statement of Work** with a detailed budget and schedule is required as **Exhibit A** of this application.

This water education project will enhance a new opportunity for the public to learn about the water history of Montezuma Valley and the development of the Montezuma Valley Irrigation Company's (MVI) extensive system of laterals and flumes by funding the final phase of the rehabilitation of the McElmo Creek Flume.

The McElmo Creek Flume is the LAST SURVIVING flume of the original 104 flumes on the Montezuma Valley Irrigation system. The original wooden flume system was begun in the late 1890s and was completed in the 1920s when the Montezuma Valley Irrigation Company finished 150 miles of canals and 104 wooden flumes. This irrigation system brought water to the Montezuma Valley which allowed large-scale farming and ranching to develop, and also allowed the townsite of Cortez to become the City it is today.

The McElmo Flume remained operational until 1992 when the McPhee Reservoir was constructed and underground laterals were built to replace the canals and flumes. In 2011, the McElmo Creek Flume was listed on Colorado Preservation Inc.'s Endangered Places List, and in 2012, it was listed on the National Register of Historic Places.

The Flume is located east of the City of Cortez on land owned by Montezuma County. After several condition assessments of the Flume's foundation and wooden superstructure between 2012 and 2014, the foundation of the Flume was stabilized in the winter of 2016 (see pictures in Exhibit B). This work was partially funded by \$20,000 in matching funds from the Southwest Basin Roundtable.

The Rehabilitation of the McElmo Creek Flume is identified in the Southwest Basin Roundtable IPP (#16-DM). The project was created in January of 2014, and it lists the remaining steps as "Construct highway access point; rehabilitate flume." The construction of the new McElmo Flume stop on the Trail of the Ancients Scenic Byway was completed in the summer of 2016, and there is now a paved parking area with an accessible trail that leads to an overlook for the Flume. When visitors look at the Flume, the wooden trough is the prominent portion that they see, and it has deteriorated significantly (see pictures in Exhibit B). The only remaining work is the repair of the wooden trough, and the rehabilitation of the Flume will be finished.

Also in 2016, Montezuma County received a fourth and final grant from the Colorado State Historical Fund (SHF) to implement the repairs to the wooden trough of the McElmo Creek Flume recommended in earlier grants. This grant, for \$181,104, will fund the repairs to the wooden trough. This rehabilitation of the wooden trough of the Flume is necessary so that it can be properly interpreted to the visiting public at the new stop on the Trail of the Ancients Scenic Byway.

This SHF grant requires matching funds of \$60,368. This request to WSRA is for \$20,000 needed to match the SHF grant. Matching funds have already been secured from the Southwest Water Conservancy District (\$15,000), and requested from the Ballantine Family Fund (\$5,000). A Fund Raising Plan is included in Exhibit C.

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### Part III. – Threshold and Evaluation Criteria

1. Describe how the water activity meets these **Threshold Criteria**. (Detailed in Part 3 of the Water Supply Reserve Account Criteria and Guidelines.)

- a) The water activity is consistent with Section 37-75-102 Colorado Revised Statutes.<sup>1</sup>

This education project is non-consumptive and there are no water rights involved in this project.

- b) The water activity underwent an evaluation and approval process and was approved by the Basin Roundtable (BRT) and the application includes a description of the results of the BRTs evaluation and approval of the activity. At a minimum, the description must include the level of agreement reached by the roundtable, including any minority opinion(s) if there was not general agreement for the activity. The description must also include reasons why general agreement was not reached (if it was not), including who opposed the activity and why they opposed it. Note- If this information is included in the letter from the roundtable chair simply reference that letter.

A letter of approval will be sent by the Southwest Basin Roundtable Chair.

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<sup>1</sup> 37-75-102. Water rights - protections. (1) It is the policy of the General Assembly that the current system of allocating water within Colorado shall not be superseded, abrogated, or otherwise impaired by this article. Nothing in this article shall be interpreted to repeal or in any manner amend the existing water rights adjudication system. The General Assembly affirms the state constitution's recognition of water rights as a private usufructuary property right, and this article is not intended to restrict the ability of the holder of a water right to use or to dispose of that water right in any manner permitted under Colorado law. (2) The General Assembly affirms the protections for contractual and property rights recognized by the contract and takings protections under the state constitution and related statutes. This article shall not be implemented in any way that would diminish, impair, or cause injury to any property or contractual right created by intergovernmental agreements, contracts, stipulations among parties to water cases, terms and conditions in water decrees, or any other similar document related to the allocation or use of water. This article shall not be construed to supersede, abrogate, or cause injury to vested water rights or decreed conditional water rights. The General Assembly affirms that this article does not impair, limit, or otherwise affect the rights of persons or entities to enter into agreements, contracts, or memoranda of understanding with other persons or entities relating to the appropriation, movement, or use of water under other provisions of law.

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- c) The water activity meets the provisions of Section 37-75-104(2), Colorado Revised Statutes.<sup>2</sup> The Basin Roundtable Chairs shall include in their approval letters for particular WSRA grant applications a description of how the water activity will assist in meeting the water supply needs identified in the basin roundtable's consumptive and/or non-consumptive needs assessments.

This section will be completed after the Southwest Basin Roundtable meeting on January 11, 2017.

- d) Matching Requirement: For requests from the **Statewide Fund**, the applicants will be required to demonstrate a **25 percent** (or greater) match of the total grant request from the other sources, including by not limited to Basin Funds. A minimum match of 5% of the total grant amount shall be from Basin funds. A minimum match of 5% of the total grant amount must come from the applicant or 3rd party sources. Sources of matching funds include but are not limited to Basin Funds, in-kind services, funding from other sources, and/or direct cash match. Past expenditures directly related to the project may be considered as matching funds if the expenditures occurred within 9 months of the date the contract or purchase order between the applicant and the State of Colorado is executed. Please describe the source(s) of matching funds. (NOTE: These matching funds should also be reflected in your Detailed Budget in **Exhibit A** of this application)

Montezuma County has received a fourth and final grant from the Colorado State Historical Fund (SHF) to implement the repairs to the wooden trough of the McElmo Creek Flume recommended in earlier grants. This grant, for \$181,104, will rehabilitate this National Register listed property so that it can be properly interpreted to the visiting public at the new stop on the Trail of the Ancients Scenic Byway.

This SHF grant requires matching funds of \$60,368 for a total project cost of \$225,488. Matching funds of \$15,000 have already been secured from the Southwestern Water Conservation District. The SHF grant is significantly more than the 25% match required for the CWCB grant.

Additional matching funds are being solicited from the Ballantine Family Fund, the Ute Mountain Ute Tribe, the Montezuma County Historical Society, the National Trust for Historic Preservation, and through private donations (see Donation Form and Fund Raising Plan in Exhibit C). A Detailed Budget for this work is presented in Exhibit A.

2. For Applications that include a request for funds from the **Statewide Account**, describe how the water activity/project meets all applicable **Evaluation Criteria**. (Detailed in Part 3 of the Water Supply Reserve Account Criteria and Guidelines and repeated below.) Projects will be assessed on how well they meet the Evaluation Criteria. **Please attach additional pages as necessary.**

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<sup>2</sup> 37-75-104 (2)(c). Using data and information from the Statewide Water Supply Initiative and other appropriate sources and in cooperation with the on-going Statewide Water Supply Initiative, develop a basin-wide consumptive and nonconsumptive water supply needs assessment, conduct an analysis of available unappropriated waters within the basin, and propose projects or methods, both structural and nonstructural, for meeting those needs and utilizing those unappropriated waters where appropriate. Basin Roundtables shall actively seek the input and advice of affected local governments, water providers, and other interested stakeholders and persons in establishing its needs assessment, and shall propose projects or methods for meeting those needs. Recommendations from this assessment shall be forwarded to the Interbasin Compact Committee and other basin roundtables for analysis and consideration after the General Assembly has approved the Interbasin Compact Charter.



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**Evaluation Criteria** – the following criteria will be utilized to further evaluate the merits of the water activity proposed for funding from the Statewide Account. In evaluation of proposed water activities, preference will be given to projects that meet one or more criteria from each of the three “tiers” or categories. Each “tier” is grouped in level of importance. For instance, projects that meet Tier 1 criteria will outweigh projects that only meet Tier 3 criteria. The applicant should also refer to the Supplemental Scoring Matrix applied to Evaluation Criteria Tiers 1-3 for Statewide Account requests. WSRA grant requests for projects that may qualify for loans through the CWCB loan program will receive preference in the Statewide Evaluation Criteria if the grant request is part of a CWCB loan/WSRA grant package. For these CWCB loan/WSRA grant packages, the applicant must have a CWCB loan/WSRA grant ratio of 1:1 or higher. Preference will be given to those with a higher loan/grant ratio.

### **Tier 1: Promoting Collaboration/Cooperation and Meeting Water Management Goals and Identified Water Needs**

- a. The water activity addresses multiple needs or issues, including consumptive and/or non-consumptive needs, or the needs and issues of multiple interests or multiple basins. This can be demonstrated by obtaining letters of support from other basin roundtables (in addition to an approval letter from the sponsoring basin).
- b. The number and types of entities represented in the application and the degree to which the activity will promote cooperation and collaboration among traditional consumptive water interests and/or non-consumptive interests, and if applicable, the degree to which the water activity is effective in addressing intrabasin or interbasin needs or issues.
- c. The water activity helps implement projects and processes identified as helping meet Colorado’s future water needs, and/or addresses the gap areas between available water supply and future need as identified in SWSI or a roundtable’s basin-wide water needs assessment.

### **Tier 2: Facilitating Water Activity Implementation**

- d. Funding from this Account will reduce the uncertainty that the water activity will be implemented. For this criterion the applicant should discuss how receiving funding from the Account will make a significant difference in the implementation of the water activity (i.e., how will receiving funding enable the water activity to move forward or the inability obtaining funding elsewhere).
- e. The amount of matching funds provided by the applicant via direct contributions, demonstrable in-kind contributions, and/or other sources demonstrates a significant & appropriate commitment to the project.

### **Tier 3: The Water Activity Addresses Other Issues of Statewide Value and Maximizes Benefits**

- f. The water activity helps sustain agriculture & open space, or meets environmental or recreational needs.
- g. The water activity assists in the administration of compact-entitled waters or addresses problems related to compact entitled waters and compact compliance and the degree to which the activity promotes maximum utilization of state waters.
- h. The water activity assists in the recovery of threatened and endangered wildlife species or Colorado State species of concern.
- i. The water activity provides a high level of benefit to Colorado in relationship to the amount of funds requested.
- j. The water activity is complimentary to or assists in the implementation of other CWCB programs.

Continued: Explanation of how the water activity/project meets all applicable

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### Evaluation Criteria.

**Please attach additional pages as necessary.**

#### Tier 1:

- b. This non-consumptive water education project will promote cooperation and collaboration between several organizations and the public. The rehabilitation of the McElmo Creek Flume allows it to be the focal point of the new stop on the Trail of the Ancients Scenic Byway (TOTA). The Flume is located on land owned by Montezuma County who is partnering with CDOT, the owner of the land on which the new TOTA stop has been constructed. TOTA received funding from the National Scenic Byways Program to fund the construction of this new stop. And the beneficiary of these partnerships is the visiting public.
- c. The rehabilitation of the McElmo Creek Flume is specifically identified in the Southwest Basin Roundtable IPP (16-DM). The IPP states that: “The Flume represents the heritage of the culture that developed with the advent of water being trans-basin diverted from the Dolores during the mid-1880s. This is a water education project that will provide a new opportunity for the public to learn about the water history of the Montezuma Valley.” It also states that the remaining steps include “Construct highway access point; rehabilitate flume.”

The new stop has been completed, and the foundation of the Flume has been repaired. The final phase is to complete the rehabilitation of the wooden trough, which is now the focal point for visitors at the Flume Overlook at the new Byways stop.

#### Tier 2:

- e. A significant portion (87%) of the funding needed to rehabilitate the wooden trough of the McElmo Creek Flume has already been secured. Montezuma County has received a grant from the Colorado State Historical Fund for \$181,104 to repair the trough. Additional funding will be provided by the Southwestern Water Conservation District (\$15,000). This clearly demonstrates a significant commitment to preserving the water history of Montezuma County, especially with the strong support from the Southwestern Water Conservation District.

In 2014, the WSRA provided \$20,000 in matching funds for the repair of the foundation. This new grant request is for another \$20,000 needed to complete the repairs to the wooden trough of the McElmo Creek Flume. Without these repairs, the Flume will continue to deteriorate and it is only a matter of time before the wooden superstructure will collapse. Then an important part of our local and state water history will be lost forever.

#### Tier 3:

- f. This water education project will help sustain recreational needs, and indirectly, agricultural efforts in Montezuma County. The County is capitalizing on the recreational demand in the local area by expanding access to public lands and improving its trail systems.

This new TOTA stop is part of a network of trails and there are several recreational opportunities within a ½ mile of the new McElmo Creek Flume interpretive site which can be easily accessed by foot or by bicycle. The interpretative site links directly to two existing trail parks, and will be an essential focal point for an expanding trail system which will include a proposed trail that will extend 23 miles from the

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Town of Mancos to the Town of Cortez, and incorporates foot and bicycle access to the Mesa Verde National Park entrance.

The location of this new stop is essential for providing access from the Montezuma County Fairgrounds Trail Park located on the south side of Highway 160 to the Phil's World Trail Park on the north side as it has an access tunnel below Highway 160 providing users with an access option that avoids highway traffic.

Also adjacent to Phil's World and the new Byways stop is the Four Corners Rifle and Pistol Club Range where multiple competitive events take place annually including the Cowboy Action Shoots which draw many spectators and re-enactors. The new interpretative stop/trail head is also located at the Montezuma County Fairgrounds where rodeos, home and garden shows, auto racing and many other activities take place throughout the year.

This water education program and the rehabilitation of the McElmo Creek Flume does not directly support agricultural development or the existing agriculture economy. However, the recent growth of agro-tourism in Montezuma County will be enhanced by visitors learning about the water history at the new McElmo Flume stop on the Trail of the Ancients. This interest will be reinforced by information on local opportunities advertised at the Welcome Center, such as visits to local farms and ranches, guest ranch and farm stays, and the local farmers market and u-pick locations. This activity will directly support the local agricultural economy.

- i. This water education project is requesting only \$20,000 from the Southwest Basin Roundtable. This is a relatively small amount of money, and is less than 9% of the total cost for the rehabilitation of the wooden trough of the McElmo Creek Flume.

For this modest amount of money, thousands of people will drive by, and many are already visiting, this new interpretive stop on a weekly basis. They will be commuting, traveling to Mancos and Durango, or visiting the area. This location is between Cortez and the entrance to Mesa Verde National Park, which attracted more than a half million visitors last year. This is a large audience who will be educated about Montezuma Valley water history for a small investment. Since this is a permanent stop on the Trail of the Ancients, this investment will continue to educate the public for decades to come.

- j. This water education project is listed in the Southwest Basin Roundtable's IPP (16-DM). This new stop on the Trail of the Ancients Scenic Byway will reach a much larger audience than any existing water education program in southwestern Colorado. The Anasazi Heritage Center does interpret the history of the Dolores Project and the construction of McPhee reservoir, which replaced the MVI irrigation system in the 1980s. This new TOTA stop will fill in the 19<sup>th</sup> and 20<sup>th</sup> century gap between the story at the Heritage Center and the information on Ancestral Puebloan water use strategies at Mesa Verde and other archaeological sites in the area.

### Part IV. – Required Supporting Material

- 1. **Water Rights, Availability, and Sustainability** – This information is needed to assess the viability of the water project or activity. Please provide a description of the water supply source to be utilized, or the water body to be affected by, the water activity. This should include a description of applicable water rights, and

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water rights issues, and the name/location of water bodies affected by the water activity.

This project involves no consumptive use of water and will have no impact on water rights.

2. Please provide a brief narrative of any related studies or permitting issues.

Montezuma County received a 404 permit from the Army Corps of Engineers for work on the Flume's foundation in 2015. CDOT provided Section 106 compliance with the National Historic Preservation Act and the County completed environmental assessments required by CDOT.

Two architectural assessments were completed of the McElmo Creek Flume in 2012 and 2013. These projects generated the list of repairs needed and the engineering drawings needed to undertake the rehabilitation of the wooden trough. No further studies are needed.

3. Statement of Work, Detailed Budget, and Project Schedule

The statement of work will form the basis for the contract between the Applicant and the State of Colorado. In short, the Applicant is agreeing to undertake the work for the compensation outlined in the statement of work and budget, and in return, the State of Colorado is receiving the deliverables/products specified. **Please note that costs incurred prior to execution of a contract or purchase order are not subject to reimbursement.** All WSRA funds are disbursed on a reimbursement basis after review invoices and appropriate backup material.

**Please provide a detailed statement of work using the template in Exhibit A.** Additional sections or modifications may be included as necessary. Please define all acronyms and include page numbers.

### REPORTING AND FINAL DELIVERABLE

**Reporting:** The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of the executed contract. The progress report shall describe the completion or partial completion of the tasks identified in the statement of work including a description of any major issues that have occurred and any corrective action taken to address these issues.

**Final Deliverable:** At completion of the project, the applicant shall provide the CWCB a final report that summarizes the project and documents how the project was completed. This report may contain photographs, summaries of meetings and engineering reports/designs.

### PAYMENT

Payment will be made based on actual expenditures and invoicing by the applicant. Invoices from any other entity (i.e. subcontractors) cannot be processed by the State. The request for payment must include a description of the work accomplished by major task, and estimate of the percent completion for individual tasks and the entire water activity in relation to the percentage of budget spent, identification of any major issues and proposed or implemented corrective actions. The last 10 percent of the entire water activity budget will be withheld until final project/water activity documentation is

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completed. All products, data and information developed as a result of this grant must be provided to the CWCB in hard copy and electronic format as part of the project documentation. This information will in turn be made widely available to Basin Roundtables and the general public and help promote the development of a common technical platform.

## Water Supply Reserve Account – Application Form

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### Water Supply Reserve Account – Application Form

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The above statements are true to the best of my knowledge:

Signature of Applicant: 

Print Applicant's Name: Larry Don Suckla, Chairman, Montezuma Board of County Commissioners

Project Title: Rehabilitation of the Wooden Trough of the McElmo Creek Flume

Date: December 19, 2016

Return an electronic version (hardcopy may also be submitted) of this application to:

Craig Godbout – WSRA Application  
Colorado Water Conservation Board  
1313 Sherman St., Room 721  
Denver, CO 80203  
303-866-3441, ext. 3210 (office)  
303-547-8061 (cell)  
[craig.godbout@state.co.us](mailto:craig.godbout@state.co.us)

## SOUTHWEST BASIN ROUNDTABLE'S CONCEPTS FOR BASIN EVALUATION

**The following will be used to evaluate a project submitted to the Southwest Basin Roundtable.**

*The listed requirements include Southwest Basin Roundtable specific requirements as well as the Colorado Water Conservation Board requirements for completing the Water Supply Reserve Account (WSRA) application. This is not an exhaustive list and all application forms should be thoroughly reviewed and completed.*

### REQUIRED:

- A. Projects must be submitted on application forms used by the [Colorado Water Conservation Board](#) (CWCB) and [Southwest Basin Roundtable](#) (Roundtable).
- B. All applicable sections must be completed.
- C. Applicants will identify which of the goals and measurable outcomes apply as described in the [Roundtable's Basin Implementation Plan](#) (BIP), add address those applicable goals and measurable outcomes for the Project. Below are the BIP's goals, with full plan (BIP) entirety available on the Roundtable's website ([swwcd.org/resources/southwest-basin-roundtable](http://swwcd.org/resources/southwest-basin-roundtable)).

The Southwest Basin Roundtable's BIP does not include specific goals for preservation of historic water-related features. It does, however, mention our local agricultural heritage and our "extensive recreational opportunities. Many communities within the area rely heavily on tourism and the recreational industry as a primary economic driver. Agriculture and the open spaces it maintains contribute to the culture, economy and quality of life of the Southwest Basin."

The rehabilitation of the McElmo Creek Flume allows the story of the local agricultural heritage to be interpreted to the visiting public. In our area, agriculture could not have been supported without the development of the Montezuma Valley Irrigation Company's system of 150 canals and 104 flumes in the 1890s. The McElmo Creek Flume is the ONLY flume left of the original 104. Thus it serves as an "artifact" to interpret local water history at the new McElmo Flume stop on the Trail of the Ancients Scenic Byway.

- D. In addition to describing applicable BIP goals, the applicant will also identify if the project is listed as an identified project and/or process (IPP) in the BIP and note the identification number of the IPP in their application. The IPP list is available on the [Roundtable's website](#). If the project is not an IPP, the applicant should make note of this in the application.

The Rehabilitation of the McElmo Creek Flume is identified in the Southwest Basin Roundtable IPP (#16-DM). It was created in January of 2014, and it lists the remaining steps as "Construct highway access point; rehabilitate flume."

The construction of the new McElmo Flume stop on the Trail of the Ancients Scenic Byway was completed in the summer of 2016, and was dedicated in December. The first phase of the rehabilitation of the Flume, the repair of the foundation, was completed in February of 2016. The only remaining work is the repair of the wooden trough, and the rehabilitation of the Flume will be finished.

Provide the financial overview of the project and/or process, including cost sharing and other possible funding sources. The Roundtable requires a minimum 25% match of the total project cost (or that portion of the Project) being requested to be funded by WSRA grant funds, not to exceed 10% as in-kind (i.e. minimum of 15% cash match) to be provided to all WSRA basin fund requests. Please provide details of the in-kind contributions. The Roundtable strongly encourages cash contributions from project beneficiaries or applicants. Waivers of these requirements will be considered on a case-by-case basis.

|  |                 |
|--|-----------------|
| <b>Total cost of Project, or portion being funded by WSRA Basin funds*</b> | <b>\$20,000</b> |
| Total Cash Match Amount (15%)  | \$196,104       |
| Total In-Kind Match Amount (10%)**   | \$0             |
| Total WSRA Basin Fund Grant Request Amount                                 | \$20,000        |

*\*Amount of Grant Request plus amount of match should equal total cost of Project*

*\*\*CWCB allows for “past expenditures directly related to the project may be considered as matching funds (i.e. in-kind contributions) if the expenditures occurred within 9 months of the date of the contract or purchase order between the applicant and the State of Colorado is executed.”*

E. Provide a proposed timeline for completion of the project and/or process.

Once all of the matching funds have been secured, Montezuma County will sign the contract with the Colorado State Historical Fund. The proposed timeline is:

Months 1-2: SHF grant contract fully executed, initial SHF meeting

- Submit subcontract certifications, existing conditions photos, and Bid package
- Award contracts to contractor and owner's representative

Month 2: Pre-construction meeting with SHF

Months 2 – 8: Conduct repairs on wooden superstructure and stave flume:

1. General requirements, including crane support, scaffolding, temporary fencing
2. Numbering of staves, clamps, and framing bents, and removal for repair
3. Repair of concrete and steel at the top of concrete-encased steel girders
4. Assessment/repair of top flange of steel girders where framing bents bear on them; install (weld) new steel plates that support timber stringers
5. Repair / replacement in-kind of deteriorated stringers and framing bent sills
6. Repair of curved framing bents
7. Installation of salvaged staves, supplemented by additional material to complete the half-pipe and engage steel rods and spreaders.

Month 6: SHF and owner's representative interim meeting

Month 8: SHF and owner's representative site visit

Month 9: Submittal of final deliverables

- After photos, documentation of outreach activities, final report
- SHF review

Month 10: Project completion

F. The Roundtable recommends an applicant's request of grant basin funds to not exceed \$50,000 per application. Waiver of this recommendation will be considered on a case-by-case basis.

G. The Roundtable requires that if the application is approved, the applicant provide at a minimum semi-annual progress reports of the project as well as a final report once the project is completed. The first



report is due six months after the notice to proceed is given. To not duplicate efforts, the applicant may electronically send the same progress and final reports, as required by CWCBC, to the Roundtable chair for distribution to the group. Applicants are always encouraged to come share project completion stories including successes and lessons learned.

- H. Projects must answer, to the best of their ability, the posed evaluation questions presented below. These questions and answers assist the Roundtable during the application review process.

## **SOUTHWEST BASIN ROUNDTABLE'S EVALUATION QUESTIONNAIRE**

**To assist the Roundtable in determining whether and to what extent a proposed project and/or process meets the values set forth in the By-Laws and goals of the Basin Implementation Plan, the following questions should be addressed separately as can reasonably be answered by the applicant.** *Note: this is not an exhaustive list and additional questions may be asked of the applicant.*

1. What benefit(s) does the project provide? Are there multiple purposes? *Note: this does not mean that a single purpose project would be rejected, but for major funding requests, addressing multiple use needs would be an advantage.*

This water education project will complete a new opportunity for the public to learn about the water history of Montezuma Valley and the development of the Montezuma Valley Irrigation Company's (MVI) extensive system of laterals and flumes by funding the final phase of the rehabilitation of the McElmo Creek Flume.

The McElmo Creek Flume is the LAST SURVIVING flume of the original 104 flumes on the Montezuma Valley Irrigation system. The original wooden flume system was begun in the late 1890s and was completed in the 1920s when the Montezuma Valley Irrigation Company finished 150 miles of canals and 104 wooden flumes. This irrigation system brought water to the Montezuma Valley which allowed large-scale farming and ranching to develop, and also allowed the townsite of Cortez to become the City it is today.

The McElmo Creek Flume was Flume No. 6 on the Highline Lateral, and delivered water to the Ute Mountain Ute Tribe's reservoir north of Towaoc. The original flume was replaced in 1921 with a Creo-Wood Flume from the Continental Pipe Manufacturing Company. In 1955, the flume's timber trestles were replaced with reinforced concrete piers, steel I-beam stringers, and diagonal steel braces.

The McElmo Flume remained operational until 1992 when the McPhee Reservoir was constructed and underground laterals were built to replace the canals and flumes. In 2006, runoff from a heavy rainstorm collapsed a portion of the Flume. In the winter of 2010, high winds dislodged boards in the southern end of the Flume, where the bank had eroded away and the braces for the Flume were no longer supported.

In 2011, the McElmo Creek Flume was listed on Colorado Preservation Inc.'s Endangered Places List, and in 2012, it was listed on the National Register of Historic Places.

The Flume is located east of the City of Cortez on land owned by Montezuma County. It was adjacent to an informal CDOT pullout on highway 160, which is part of the San Juan Skyway and Trail of the Ancients National Scenic Byways. In 2012, the Trail of the Ancients Scenic Byway (TOTA) was awarded a National Scenic Byways Grant to build a formal pullout with interpretive panels to tell the story of MVI, the McElmo Creek Flume, and historic water use in the Montezuma Valley. This new interpretive stop was completed in 2016 (see pictures in Exhibit B). Other stops along the Byway discuss Ancestral Puebloan water history so this new stop on

TOTA is an excellent venue for educating the local and traveling public about the 19<sup>th</sup> and 20<sup>th</sup> century water history of our area.

Although this stop was built to tell the story of water in the Montezuma Valley with a few pictures on the wayside panels, it will be much more effective if the public can see the restored McElmo Creek Flume. The foundation of the Flume was repaired in the winter of 2016, and now the wooden trough of this “artifact” of the early MVI irrigation system needs to be rehabilitated in order to insure it’s survival for the foreseeable future.

2. Outline the steps needed for completion of the project. What permit issues must be overcome? How will funds acquired in this process be used to accomplish the final goal?

Montezuma County has received a fourth and final grant from the Colorado State Historical Fund (SHF) to implement the repairs to the wooden trough of the McElmo Creek Flume which were recommended in earlier grants. This grant, for \$181,104, will fund the repairs to the wooden trough superstructure. This final phase of the rehabilitation of the Flume is necessary so that it can be properly interpreted to the visiting public at the new McElmo Flume stop on the Trail of the Ancients Scenic Byway.

This SHF grant requires matching funds of \$60,368. This request to the SW Basin Roundtable is for \$20,000 needed to match the SHF grant. Matching funds have already been secured from the Southwestern Water Conservation District (\$15,000), and requested from the Ballantine Family Fund (\$5,000). Additional funds will be solicited from the Ute Mountain Ute Tribe, the Montezuma County Historical Society, the National Trust for Historic Preservation, and through private donations.

3. For prioritization of different proposals and assessment of the merits of the plan, can this project be physically built with this funding? Are further studies needed before actual construction is commenced (if the project anticipates construction)? Will these studies or additional steps delay the completion of the project substantially?

No further studies are needed to begin construction on this project. Two assessments of the structural integrity of the Flume have already been completed. In 2012, Montezuma County worked with the team of Ron Anthony of Anthony & Associates, Inc., Doug Porter of Conservation Associates Inc., Michael Nulty from the Center of Preservation Research at the University of Colorado, and Linda Towle, Historic Preservation Consultant, to complete an Archaeological Assessment of the McElmo Creek Flume. This was funded by a State Historic Fund (SHF) grant. A copy of that report is available on request.

In 2013, Montezuma County was awarded a second SHF grant to conduct a foundation assessment of the Flume and produce construction documents. The addition of Carlo Citto of Atkinson-Noland & Associates, Inc. to the team of Anthony, Porter & Towle provided the engineering expertise to minimize interventions while maximizing retention of historic fabric and maintaining the integrity of the Flume. This grant resulted in repair recommendations to the steel and concrete substructure of the Flume, and construction documents for both the substructure and wooden flume repairs. A copy of that report is available on request.

In 2014, the County received a third SHF grant to repair the foundation of the Flume. This work was completed in the winter of 2016 (see pictures in Exhibit B), and the repair of the wooden trough is ready to begin once all the matching funds are secured.

4. Does the proposal envision and anticipate financial or in-kind support from its beneficiaries or from other sources in addition to the funding requested here? Would a loan reasonably address the needs of the applicant or, with a grant, should a recommendation be added to assess the future project status for

ability to repay a portion of the grant?

As mentioned above, Montezuma County has already acquired a significant portion (87%) of the funding needed for rehabilitation of the wooden trough of the McElmo Creek Flume. The SHF has awarded the County a fourth and final grant of \$181,104 for this work. Matching funds have already been secured from the Southwestern Water Conservation District (\$15,000), and requested from the Ballantine Family Fund (\$5,000). Additional funds will be solicited from the Ute Mountain Ute Tribe, the Montezuma County Historical Society, the National Trust for Historic Preservation, and through private donations.

Montezuma County currently has no funding mechanisms in place to support historic preservation activities. Therefore contributions towards projects of this nature are limited. Without dedicated funding streams, it would be difficult for Montezuma County to repay a loan for projects of this nature. To repay a loan, Montezuma County would have to pass a bond through a general election which would be impractical for this dollar amount.

5. What is the ability of the sponsor to pay for the project? What actions have been taken to secure local funding? Are there supporting factors which overcome the sponsor's inability to pay? Please provide a summary of the sponsor's financial health such as customer fee structure, mill levy rate, or other applicable information that demonstrates the sponsor's ability to pay for the project. (These could be related to basin water needs and compact considerations).

In 2013, the County provided \$2,625 of matching funds for the SHF grant to assess the structural integrity of the foundation of the Flume. For the 2014 SHF grant, the County contributed another \$2,500 of matching funds. The County also contributed \$52,000 of in-kind match consisting of materials, labor and equipment for the construction of the new McElmo Flume stop on the Trail of the Ancients in 2015.

Montezuma County has many obligations to the tax payers to maintain the health and safety of its citizens. This includes law enforcement and maintenance of over 530 miles of roads. Montezuma County is also one of the more economically challenged counties in Colorado with a median household income of \$37,000 compared to \$55,000 average for the State of Colorado. Nearly 17% of Montezuma County's residents live below the poverty level as compared to 9.3% statewide.

Montezuma County does not have a sales tax which leaves the county reliant on property taxes alone. In 2015, 62% of Montezuma County's tax revenue came from oil & gas production. Of that 62%, over 90% came from CO2 production. Because CO2 demand is tied to oil recovery, the slump in oil and gas demand has resulted in a drastic decline in the production of CO2. This in turn resulted in a precipitous decline in revenue for Montezuma County in 2017.

The sudden drop in revenue lead to a \$1.3 million cut to the county general fund for fiscal year 2017. A 10% across the board budget cut to all Montezuma County Departments was made. In addition, annual funding requests to the county from various groups and agencies will be cut by 10%. To put a further burden on the strained budget, Montezuma County is also mandated by the state to contribute \$6 million to build a new combined courthouse. As we are making this final request for funding for the Flume rehabilitation, Montezuma County is in greater need of financial support from the SW Basin Roundtable than ever before in our effort to successfully finish this project.

As mentioned above, local funding has already been secured from the Southwestern Water Conservation District (\$15,000), and requested from the Ballantine Family Fund (\$5,000) for the rehabilitation of the wooden trough.

6. What alternative sources of water or alternative management ideas have you considered? Are there

water rights conflicts involving the source of water for the project? If yes, please explain.

This water education project is a non-consumptive project that does involve water rights or impact water use.

7. Has there been public input solicited and is there local support for the project? Have the beneficiaries solicited funding, letters or other documentation to demonstrate support?

There is much local support for the preservation and interpretation of the McElmo Creek Flume. The Cortez Journal has run 20 articles about the Flume in the last 5 years. The dedication of the McElmo Flume Interpretive stop in December 2016 was front page news in the Journal and the Durango Herald. Articles have also appeared in the magazine “Celebrate Our Spirit,” and the Colorado Preservation, Inc., newsletter in 2016. KSJD, our local radio station, has conducted interviews about the progress and importance of saving the Flume.

For past grants, letters of support for funding for the Flume have come from a diverse set of organizations, including the Montezuma Valley Irrigation Company, the Dolores Water Conservancy District, the Southwestern Water Conservation District, the Montezuma County Historical Society, the Cortez Historic Preservation Board, the Colorado Department of Transportation, Colorado Preservation, Inc., Cortez Chamber of Commerce, the Anasazi Heritage Center, Cortez Cultural Center, Crow Canyon Archaeological Center, the Colorado Archaeological Society, and Mesa Verde National Park, among others.

Letters of support from the April 2016 SHF grant application are included in Exhibit C. This is the grant which is providing the funding to rehabilitate the wooden trough of the Flume. Additional letters are available on request.

8. Is there opposition to the project? If there is opposition, how have those concerns been addressed? Identify any conflicts that may exist and how they will be addressed.

There has been no opposition to this project to date. Many people have parked at the new McElmo Flume stop, read the signs at the Flume overlook, and it is unlikely that anyone would oppose finishing this project by rehabilitating the wooden trough of the Flume.

9. Does this project affect the protection and conservation of the natural environment, including the protection of open space? If yes, please explain.

The rehabilitation of the wooden trough of the McElmo Creek Flume will not affect the natural environment of the McElmo Creek. There will be temporary, short-term impacts during the rehabilitation work, but these will be mitigated and the creek bed will be protected.

While not directly providing additional open space, this project is focused on agriculture and water conservation education. Fully understanding the importance of water to the arid west will help build support in the general public for ongoing water conservation strategies that could help to benefit the State of Colorado and other areas in the west. Water resource management will always be a relevant issue in the arid regions of the country and educating the general public on the challenges associated with managing this resource is important.

A secondary effect of rehabilitation the Flume is the completion of the new McElmo Flume interpretive stop on the Trail of the Ancients Scenic Byway. The area where this stop was constructed was previously a dirt pullout created by CDOT to stockpile materials during work on highway 160. Although this could have been considered “open space,” it was actually a weed infested, unattractive disturbance that is now greatly enhanced by the construction of the new parking and viewing areas (see pictures in Exhibit B). This new stop connects several hiking and biking trails, and will be a key piece in a proposed hiking/biking trail between Cortez and Mancos.

Thus it will enhance the public's access to existing open space.

10. Are there impacts of the proposed action on other non-decreed values of the stream or river? Non-decreed values may include things such as non-decreed water rights or uses, recreational uses and soil/land conservation practices.

This water education project is a non-consumptive project that does not involve water rights or impact water use.

11. Does this project relate to local land use plans? If yes, please explain.

The completion of the new McElmo Flume interpretative stop/ trail head on the Trail of the Ancients (TOTA) Scenic Byway and the rehabilitation of the McElmo Creek Flume is compatible with, and will enhance, current land use plans in Montezuma County.

The 8,500 residents of Cortez and 25,000 residents of the greater Montezuma County area enjoy a very active Colorado lifestyle which includes access to hiking, biking and horseback riding opportunities on public lands. In addition, a significant portion of Montezuma County's overall economy is tourism based since it is geographically located between Moab, Utah and Durango, Colorado, both of which are internationally known as outdoor recreation destinations.

Mesa Verde National Park is the most significant visitor draw to Montezuma County bringing in 593,000 visitors in 2016. With its strategic location between these well-known destinations, many tourists traveling between Durango and Moab are traveling the Trail of the Ancients Scenic Byway, and stopping over in Montezuma County to enjoy the recreational opportunities that we have here before going on to other destinations.

Recreation and access to trails is an essential for meeting the type of experience many of the residents and visitors demand. There are several recreational opportunities within a ½ mile of the new McElmo Creek Flume interpretive site/trail head on the Trail of the Ancients which can be easily accessed by foot or by bicycle. The interpretative site will link directly to two existing trail parks, and will be an essential focal point for an expanding trail system which will include a proposed trail that will extend 23 miles from the Town of Mancos to the Town of Cortez, and incorporates foot and bicycle access to the Mesa Verde Park entrance.

Montezuma County is capitalizing on the recreational demand by expanding access to public lands and improving its trail systems. This is resulting in increasing recreational tourism dollars as our community is becoming known for its recreational potential. This new TOTA stop fits the existing land use plans and enhances the future plans.

12. Does the project depend on a conversion of an agricultural water right? If yes, please explain.

This water education project is a non-consumptive project that does not involve water rights or impact water use.

13. Does the project support agricultural development or protect the existing agricultural economy? If yes, please explain.

This water education program and the rehabilitation of the McElmo Creek Flume does not directly support agricultural development or the existing agriculture economy. However, the recent growth of agro-tourism in Montezuma County will be enhanced by visitors learning about the water history at the new stop on the Trail of the Ancients. This interest will be reinforced by information on local opportunities advertised at the Welcome Center, such as visits to local farms and ranches, guest ranch and farm stays, and the local farmers market and u-pick locations. This will directly support the local agricultural economy.

In addition, interpreting the story of water irrigation in Montezuma County in the 19<sup>th</sup> and 20<sup>th</sup> centuries celebrates the families who developed the agriculture opportunities here as a result of the increased availability of water. Many of these families, and their descendants, are still ranching and farming in Montezuma County today.

14. Does the project optimize existing water rights and/or existing infrastructure? If yes, please explain.

This water education project is a non-consumptive project that does not involve water rights or impact water use.

15. Does the applicant anticipate future funding requests to complete the additional components of this project? Does the applicant have a long term operation, maintenance and replacement plan? When was the last update of the plan?

The rehabilitation of the wooden trough of the McElmo Creek Flume is the final phase of rehabilitation. There will be no future funding requests once this phase is completed. The new McElmo Flume stop on TOTA is also completed.

The maintenance of the Flume is the responsibility of Montezuma County. Both the rehabilitation of the foundation and the wooden trough of the Flume were designed to last for several decades, so there will probably be only minor maintenance required. The maintenance of the new TOTA stop is shared by Montezuma County and CDOT.

16. Does this project have an education component? If yes, please explain how it is consistent with the Roundtable's Education Action Plan.

Yes, this is a water education project. Although not specifically identified in SW Basin Roundtable Education Action Plan for 2017, the new interpretive stop at the Flume will educate thousands of local residents and visitors as they read about the water history of the Montezuma Valley. The panels at the Flume discuss the diversion of the Dolores River, the 150 miles of canals and 104 flumes that delivered water to the valley in the 19<sup>th</sup> and 20<sup>th</sup> centuries, and the Dolores Project which provided water for the Ute Farming and Ranching Enterprise. Teachers have also discussed field trips to the Flume to bring local history to life for their students.

The rehabilitation of the McElmo Creek Flume is identified in the Southwest Basin's IPP (16-DM), showing the Roundtable's support for completing this project.

## **Exhibit A**

### **a. Statement of Work**

**WATER ACTIVITY NAME - Rehabilitate the Wooden Trough of the McElmo Creek Flume**

**GRANT RECIPIENT – Montezuma County**

**FUNDING SOURCE - Southwest Basin Roundtable**

#### **INTRODUCTION AND BACKGROUND**

Provide a brief description of the project. (Please limit to **no more than 200 words**; this will be used to inform reviewers and the public about your proposal)

This water education project will implement the repairs to the wooden trough of the McElmo Creek Flume. This is the last of the 104 flumes originally built on the Montezuma Valley Irrigation system in the 1890s. The rehabilitation of this National Register property is necessary so that it can be properly interpreted to the visiting public at the new McElmo Flume stop on the Trail of the Ancients Scenic Byway on Highway 160. Wayside panels at this stop tell the story of the 19<sup>th</sup> and 20<sup>th</sup> century water history in Montezuma County. Without the construction of this irrigation system which allowed ranching and farming to prosper, Montezuma County and the City of Cortez would not have developed. This major highway across southern Colorado is traveled by hundreds of people daily, including the half million people who visit Mesa Verde National Park every year. This is the final phase of the rehabilitation of the McElmo Creek Flume, which is the primary focus of this new stop. This will allow the actual Flume to be viewed and its function understood by the public. This project is included in the SWBRT's IPP (#16-DM).

#### **OBJECTIVES**

List the objectives of the project

The objective of this project is to finish the rehabilitation of the Flume by repairing the wooden trough. The Flume has been out of use since 1992 and has deteriorated rapidly due to water and wind events. In 2016, the repairs to the foundation of the Flume were completed, and the new McElmo Flume interpretive stop on the Trail of the Ancients was also completed. Now the wooden trough must be repaired to insure the survival of the Flume, which is the focal point at this new stop on the Trail of the Ancients.

#### **TASKS**

Provide a detailed description of each task using the following format:

##### **TASK 1 – General requirements, including crane support, scaffolding, temporary fencing.**

The drawings for repairing the wooden trough of the Flume were completed and approved in the 2013 SHF assessment grant. Removal of framing bents is likely to require light crane support. Scaffolding platforms will be erected on the trestle structure, and temporary fencing will be used to prevent access to the site by the public.

**TASK 2 - Numbering of staves, clamps, and framing bents, and removal for repair.**

Temporary removal of the woodwork from the framing bents up is required for completion of substructure repairs. Numbering will allow for the location of parts and assemblies on annotated drawings to facilitate re-assembly of the trough.

**TASK 3 - Repair of concrete and steel at the top of concrete-encased steel girders.**

Deteriorated or defective concrete will be removed until sound material is reached. Exposed steel surfaces will be cleaned of loose concrete, rust, and other contaminants by sandblasting. Cleaned steel will be coated with a zinc rich primer. New concrete will be cast to restore cross-section of concrete-encased steel girders.

**TASK 4 - Assessment/repair of top flange of steel girders where framing bents bear on them.**

Weld new steel plates that support timber stringers. The surface condition of top flanges will be evaluated. Where corrosion is found, steel surface will be cleaned of rust and other contaminants by sandblasting. A three-layer protective coating will be applied to the cleaned steel. New steel plates have been inserted under the existing timber stringers. Steel plates will be centered on existing steel girts and welded according to the repair detail included in the construction drawings.

**TASK 5 - Repair/replacement in-kind of deteriorated stringers and sills.**

These timber elements exhibit similar deterioration conditions, including decay pockets along drying checks and below housings. Repair options include filling decay pockets with lumber dutchmen, splicing new timber into deteriorated members, and in-kind replacement.

**TASK 6 - Repair of curved framing bents.**

Framing bents are composed of elements having one of three repetitive profiles. Replacement pieces can be cut from patterns and brought to the site, where they can be used for dutchman repairs, splices, and replacement in kind. Repaired bents can be pre-assembled before returning them to the flume.

**TASK 7 - Installation of salvaged staves.**

These staves will be supplemented by additional material (profiled to match the original) to complete the half-pipe and engage steel rods and spreaders. Replacement staves can be profiled on a 4-sided moulder to match samples collected in the field.

**TASK 8 - Supervision/construction management.**

Ron Anthony, of Anthony & Associates, will be the Owner's Representative for this grant. He conducted the initial 2012 SHF-funded assessment of the Flume, and is a world-renowned expert in historic wood preservation.

**REPORTING AND FINAL DELIVERABLE**

Reporting: The applicant shall provide the CWCBA a progress report every 6 months, beginning from the date of the executed contract. The progress report shall describe the completion or



partial completion of the tasks identified in the statement of work including a description of any major issues that have occurred and any corrective action taken to address these issues.

Final Deliverable: At completion of the project, the applicant shall provide the CWCB a final report that summarizes the project and documents how the project was completed. This report may contain photographs, summaries of meetings and engineering reports/designs.

## **b. BUDGET**

Provide a detailed budget by task including number of hours and rates for labor and unit costs for other direct costs (i.e. mileage, \$/unit of material for construction, etc.). A detailed and perfectly balanced budget that shows all costs is required for the State's contracting and purchase order processes. Sample budget tables are provided below. Please note that these budget tables are examples and will need to be adapted to fit each individual application. Tasks should correspond to the tasks described above.

The total cost for this project is \$241,472 (see below), of which \$181,104 has been provided by a grant from the State Historical Fund. This grant requires a match of \$60,368. Montezuma County is requesting \$20,000 from the WSRA as a part of this required match.

The budget below for the repair work of the wooden trough is based on published construction cost data, using the construction documents produced in 2013.

| <b>Total Costs</b>   |       |                    |                                   |                     |
|--|-------|--------------------|-----------------------------------|---------------------|
|  | Labor | Other Direct Costs | Matching Funds<br>(If Applicable) | Total Project Costs |
| Task 1 - General Requirements                                |       |                    |                                   | \$19,030            |
| Task 2 –Numbering of<br>Elements & Removal for Repair        |       |                    |                                   | \$26,940            |
| Task 3 – Repair of Concrete &<br>Steel at top of Girders     |       |                    |                                   | \$ 4,190            |
| Task 4 – Assessment/Repair of<br>Top Flange of Steel Girders |       |                    |                                   | \$ 3,300            |
| Task 5 – Repair/Replace<br>Deteriorated Stringers & Sills    |       |                    |                                   | \$58,860            |
| Task 6 – Repair of Curved<br>Framing Bents                   |       |                    |                                   | \$43,800            |
| Task 7 – Installation of<br>Salvaged Staves                  |       |                    |                                   | \$50,400            |
| Task 8 – Supervision/<br>Construction Management             |       |                    |                                   | \$13,000            |
| Contingency (7.5%)<br>SHF Grant                              |       |                    | \$181,104                         | \$21,952            |
| <b>Total Costs:</b>  |       |                    |                                   | <b>\$241,472</b>    |

## **SCHEDULE**

Provide a project schedule including key milestones for each task and the completion dates or time period from the Notice to Proceed (NTP). This dating method allows flexibility in the event of potential delays from the procurement process. Sample schedules are provided below. Please

note that these schedules are examples and will need to be adapted to fit each individual application.

| Task  | Start Date    | Finish Date    |
|---|---------------|----------------|
| 1 General Requirements                        | Upon NTP      | NTP + 10 days  |
| 2 Numbering of Elements & Removal for Repairs | NTP + 10 days | NTP + 30 days  |
| 3 Repair of Concrete & Steel                  | NTP + 30 days | NTP + 35 days  |
| 4 Assessment/Repair of Top Flanges            | NTP + 35 days | NTP + 40 days  |
| 5 Repair/Replace Stringers & Sills            | NTP + 40 days | NTP + 60 days  |
| 6 Repair Curved Framing Bents                 | NTP + 60 days | NTP + 80 days  |
| 7 Installation of Salvaged Staves             | NTP + 80 days | NTP + 105 days |

NTP = Notice to Proceed

## **PAYMENT**

Payment will be made based on actual expenditures and invoicing by the applicant. Invoices from any other entity (i.e. subcontractors) cannot be processed by the State. The request for payment must include a description of the work accomplished by major task, and estimate of the percent completion for individual tasks and the entire water activity in relation to the percentage of budget spent, identification of any major issues and proposed or implemented corrective actions. The last 5 percent of the entire water activity budget will be withheld until final project/water activity documentation is completed. All products, data and information developed as a result of this grant must be provided to the CWCB in hard copy and electronic format as part of the project documentation. This information will in turn be made widely available to Basin Roundtables and the general public and help promote the development of a common technical platform.

| Flume Fund Raising Plan:           |           |                 |  |                 |            |           |  |  |          |                   |                |  |           |
|------------------------------------|-----------|-----------------|--|-----------------|------------|-----------|--|--|----------|-------------------|----------------|--|-----------|
| Rehabilitate Wooden Superstructure |           |                 |  |                 |            |           |  |  |          |                   |                |  |           |
|                                    | Grant     | Match           |  |                 |            |           |  |  |          |                   |                |  |           |
|                                    | Amount    | Needed          |  |                 |            |           |  |  |          | Amount?           |                |  | \$ to     |
|                                    |           |                 |  |                 |            |           |  |  |          |                   |                |  |           |
| 2016 SHF                           | \$181,104 | <b>\$60,368</b> | Southwestern Water Conservation District | 9/14/2016       | 10/11/2016 | 11/8/2016 |  |  |          | <b>\$15,000</b>   | <b>Awarded</b> |  | County    |
|                                    |           |                 | MVI                                      |                 |            |           |  |  |          |                   |                |  |           |
|                                    |           |                 | SW Basin Roundtable                      | 1/2/2017        | 1/11/2017  |           |  |  | \$20,000 | Requested         |                |  | County    |
|                                    |           |                 | Ballantine Family Fund                   | 12/31/2016      | NA         |           |  |  | \$5,000  | Requested         |                |  | TOTA      |
|                                    |           |                 | National Trust for Historic Preservation | 2/1/2017        | NA         |           |  |  | \$5,000  | Requested         |                |  | County    |
|                                    |           |                 | Ute Mountain Ute Tribe                   | ?               |            |           |  |  |          |                   |                |  | TOTA      |
|                                    |           |                 | Dolores Water Conservation District      | ?               |            |           |  |  |          |                   |                |  |           |
|                                    |           |                 | Montezuma County Historical Society      | ?               | 2nd Tues   |           |  |  |          |                   |                |  | County    |
|                                    |           |                 | Private Donations                        |                 |            |           |  |  |          |                   |                |  | TOTA      |
|                                    |           |                 | KSJD/Zine                                |                 |            |           |  |  |          |                   |                |  | web site? |
|                                    |           |                 | Go Fund Me                               |                 |            |           |  |  |          |                   |                |  |           |
|                                    |           |                 | New Ballantine Grant Program?            |                 |            |           |  |  |          |                   |                |  |           |
|                                    |           |                 |  | Balance Needed: |            |           |  |  | \$45,000 |                   |                |  |           |
|                                    |           |                 |  |                 |            |           |  |  |          |                   |                |  |           |
|                                    |           |                 |  |                 |            |           |  |  |          | <b>\$ Awarded</b> |                |  |           |

## Rehabilitation of the Wooden Trough of the McElmo Creek Flume

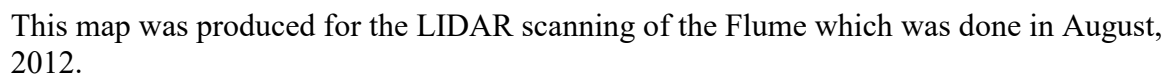
# Trail of the Ancients/ San Juan Skyway Interpretative Site

This map shows the location of the Historic McElmo Flume Interpretative Site in Montezuma County, Colorado. The site is marked with a red star on a yellow rectangular background, situated 3 miles east of Cortez. Key features include:

- Highway 160 Trail of the Ancients/ San Juan Skyway:** A yellow line running through the center of the map.
- Montezuma County Fairgrounds:** Located just west of the interpretative site.
- Cortez & Main St:** The town of Cortez is shown to the west.
- McElmo Flume & Interpretative Site Coordinates:** 108°30'10.75" W 37°20'53.5" N.
- Other Landmarks:** Totton Lake, Montezuma County Fairgrounds, Montezuma County Airport, Montezuma, Mancos, and the San Juan Skyway.
- Map Details:** Includes a scale bar, a north arrow, and a coordinate box in the bottom right corner.

**Vicinity Map**

**Historic McElmo Flume**  
Montezuma County Colorado



b. Photos:

Foundation Repairs, 2015-2016



Before: Southern end of Flume, showing erosion under supports.



After: New concrete piers installed at southern end, with rip-rap to prevent future erosion.

New McElmo Flume stop on the Trail of the Ancients Byway



Before: informal dirt CDOT pullout.



After: New stop on the Trail of the Ancients.





Panel explaining the preservation of the Flume, and crediting the donors.



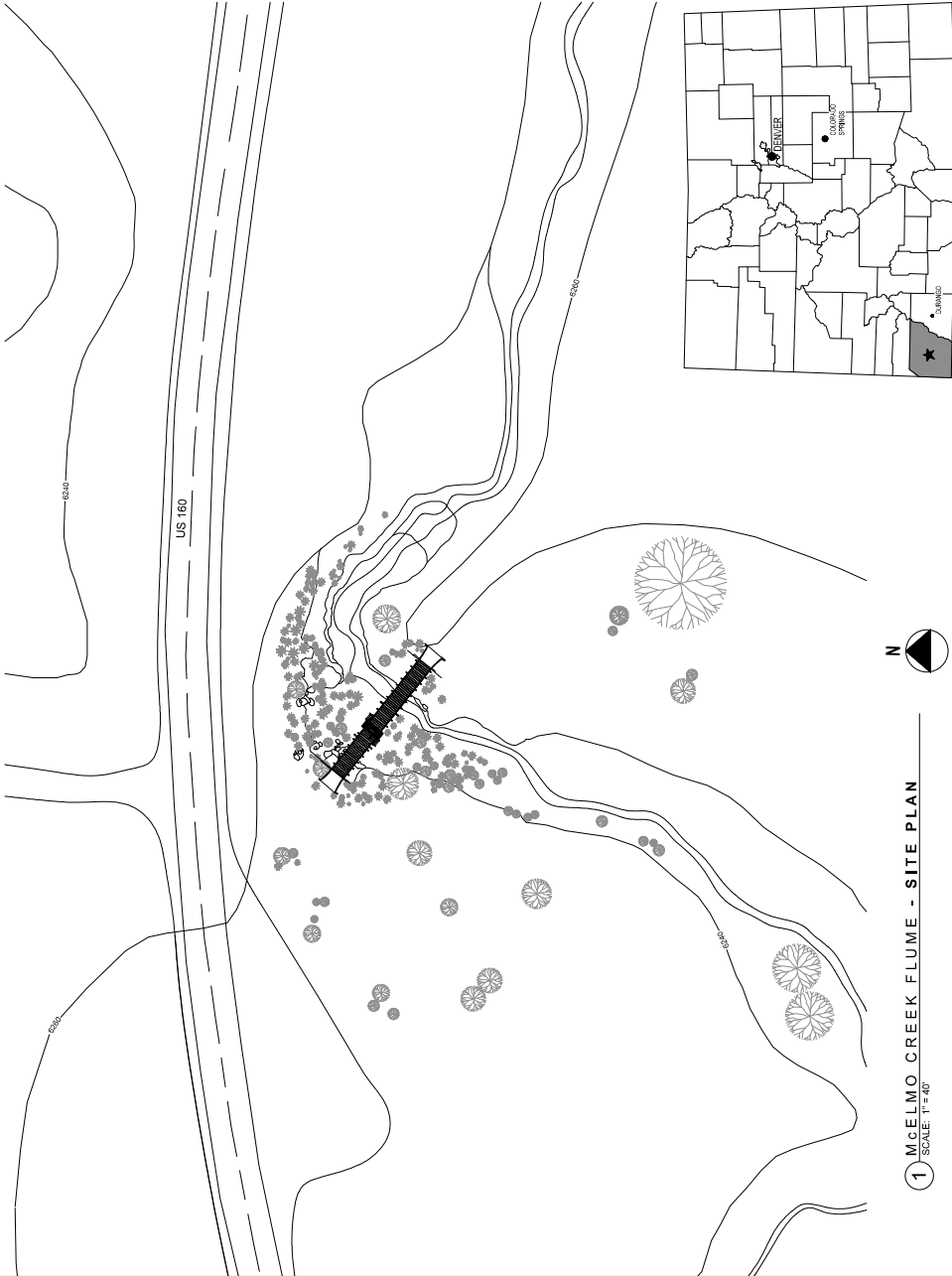
Panel at the Flume overlook. Flume is in the background.



View of the wooden trough of the Flume from the Trail of the Ancients overlook. Repairing the trough is the final phase of the restoration and interpretation of the McElmo Creek Flume.

# McELMO CREEK FLUME

## MONTEZUMA COUNTY, COLORADO



1 McELMO CREEK FLUME - SITE PLAN  
SCALE: 1"=40'

2 VICINITY MAP  
N.T.S.

### SHEET INDEX

|        |   |
|--------|---|
| 01     | COVERSHEET AND SITE PLAN                      |
| 02     | PLAN AND ELEVATION                            |
| 03     | DIMENSIONED PLAN                              |
| 04     | DIMENSIONED ELEVATION                         |
| 05     | PLAN DETAILS                                  |
| 06--07 | SECTIONS AND DETAILS                          |
| CC-01  | CURRENT CONDITIONS - CONCRETE AND FOUNDATIONS |
| CC-02  | CURRENT CONDITIONS - STEEL                    |
| CC-03  | CURRENT CONDITIONS - TIMBER                   |
| R-01   | REPAIR RECOMMENDATIONS - FOUNDATIONS          |
| R-02   | REPAIR RECOMMENDATIONS - CONCRETE             |
| R-03   | REPAIR RECOMMENDATIONS - STEEL                |
| R-04   | REPAIR RECOMMENDATIONS - TIMBER               |

### GENERAL NOTES

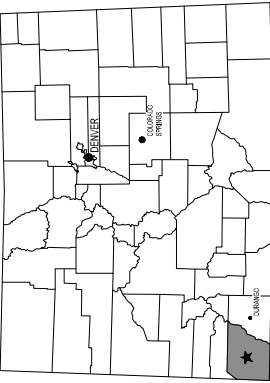
DOCUMENTATION FOR THIS PROJECT WAS COMPLETED BY RON ANTHONY (ANTHONY + ASSOCIATES), KIM DUGAN (ANTHONY + ASSOCIATES), DOUG PORTER (PORTER AND ASSOCIATES), KERI STEVENSON (PORTER AND ASSOCIATES), CARLO GITTO (ATKINSON-ANDLAND + ASSOCIATES), AND THE CENTER FOR PRESERVATION RESEARCH (MONTEZUMA COUNTY HISTORIC ARCHIVES). MEASUREMENTS WERE TAKEN IN JULY 2012 AND MAY 2013 AND ON LIDAR SCAN DATA COLLECTED BY THE CENTER FOR PRESERVATION RESEARCH IN AUGUST 2012.

ALL DRAWINGS (WITH THE EXCEPTION OF CC-01 - CC-03) DERIVE THE 'AS-BUILT' STATE OF THE McELMO FLUME AS INFERRED FROM SURVIVING FEATURES. EXISTING CONDITIONS SHOULD BE VERIFIED IN FIELD. THIS DRAWING SET WAS PRODUCED BY PORTER AND ASSOCIATES FOR ANTHONY AND ASSOCIATES IN JULY 2013.

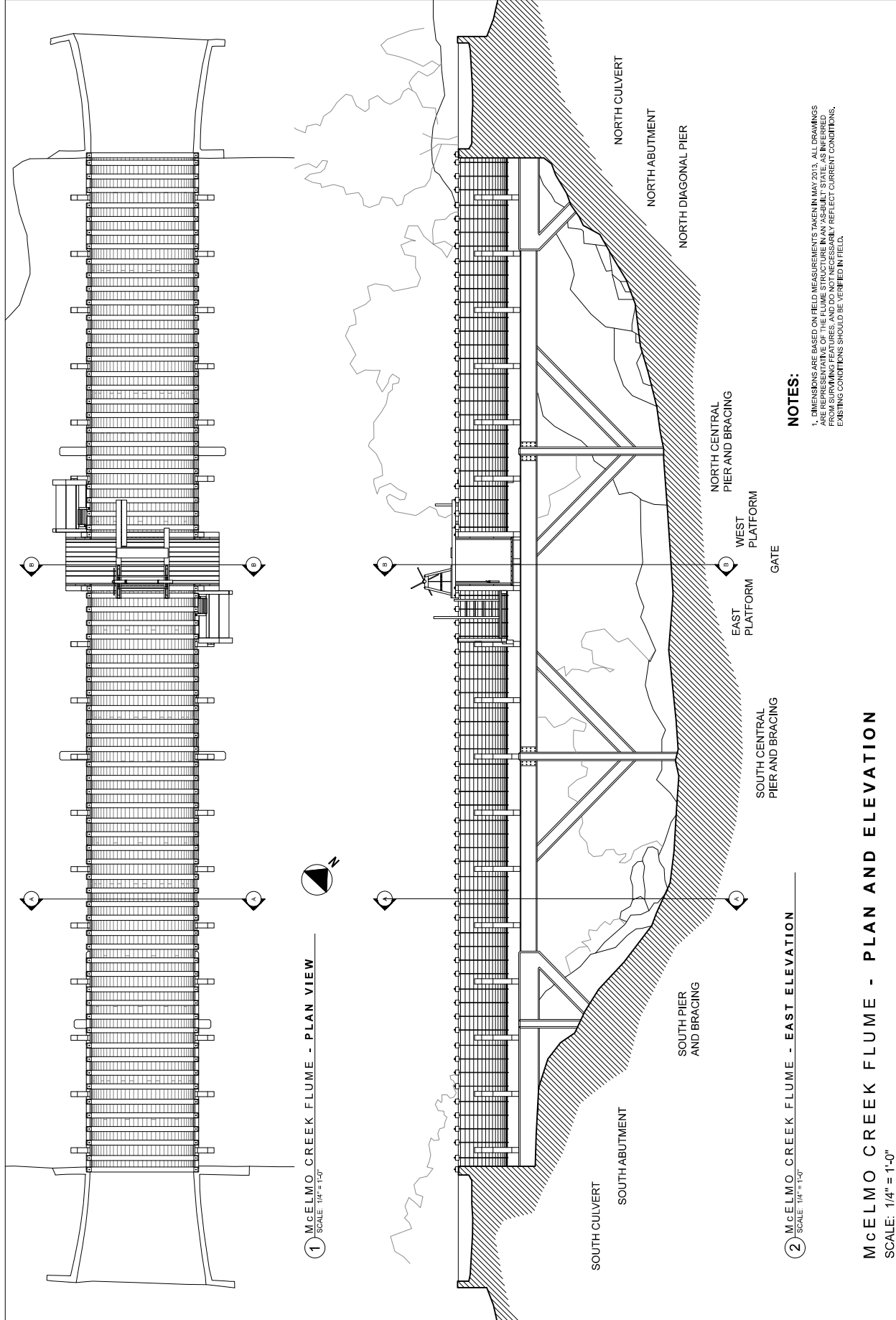
REPAIR SHEETS REFERENCE RECOMMENDATIONS MADE IN THE FOLLOWING REPORTS:  
ATKINSON-ANDLAND + ASSOCIATES, INC. STEEL AND CONCRETE INVESTIGATION REPORT, McELMO FLUME, JUNE 2013.

ANTHONY + ASSOCIATES, ARCHAEOLOGICAL ASSESSMENT AND LIMITED CONDITION MONITORING OF McELMO FLUME, MARCH 2011, AND McELMO FLUME, SEPTEMBER 2012, MONTEZUMA COUNTY, COLORADO.

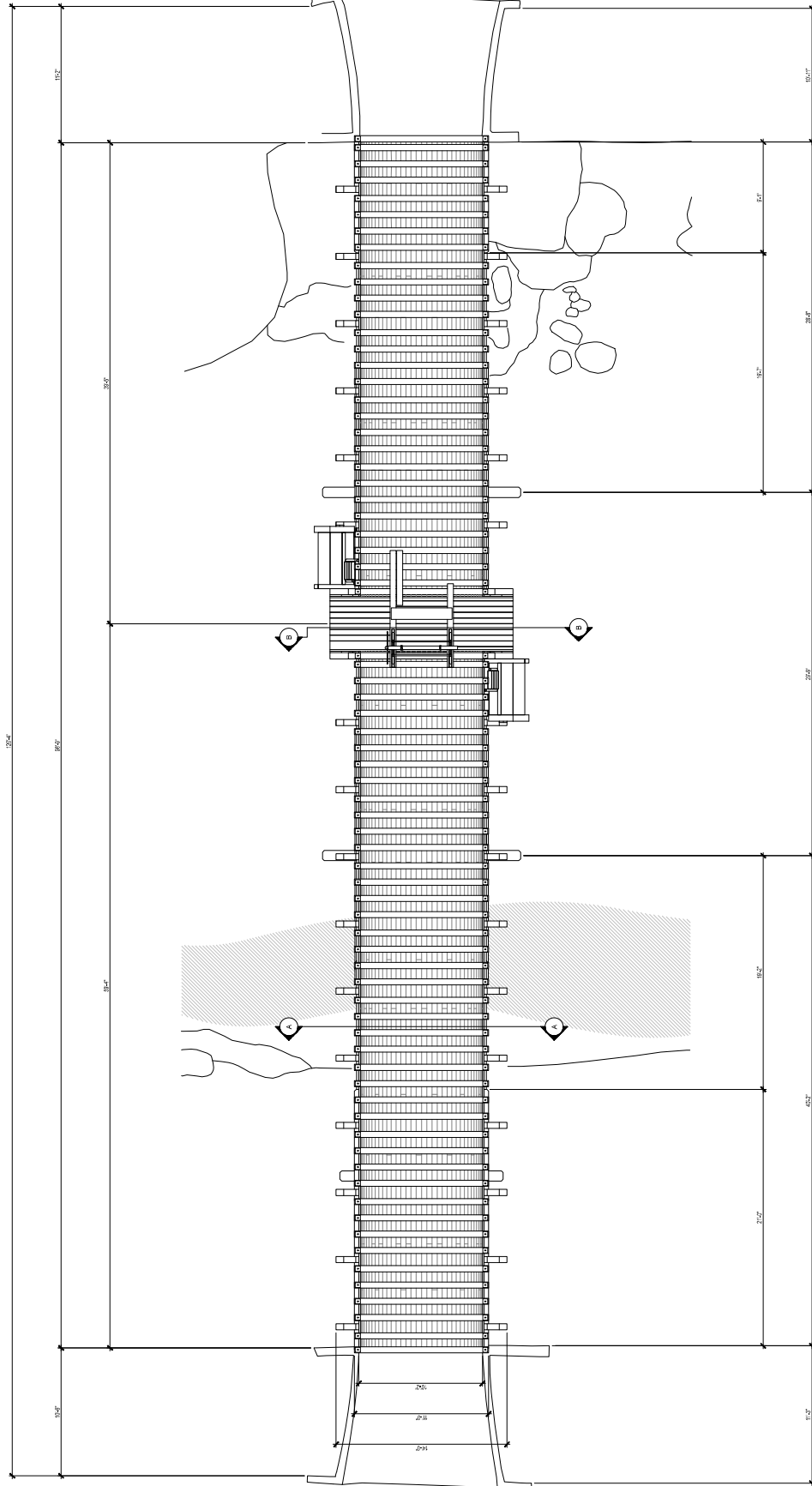
DUGAN, KIMBERLY, RECOMMENDATIONS FOR THE McELMO FLUME (LETTER TO LINDA TOWNE), MARCH 21, 2011.  
FISHER, PRESTON, INITIAL STRUCTURAL OBSERVATIONS AND RECOMMENDATIONS FOR McELMO FLUME, MARCH 2011.



3 LOCATION MAP  
N.T.S.





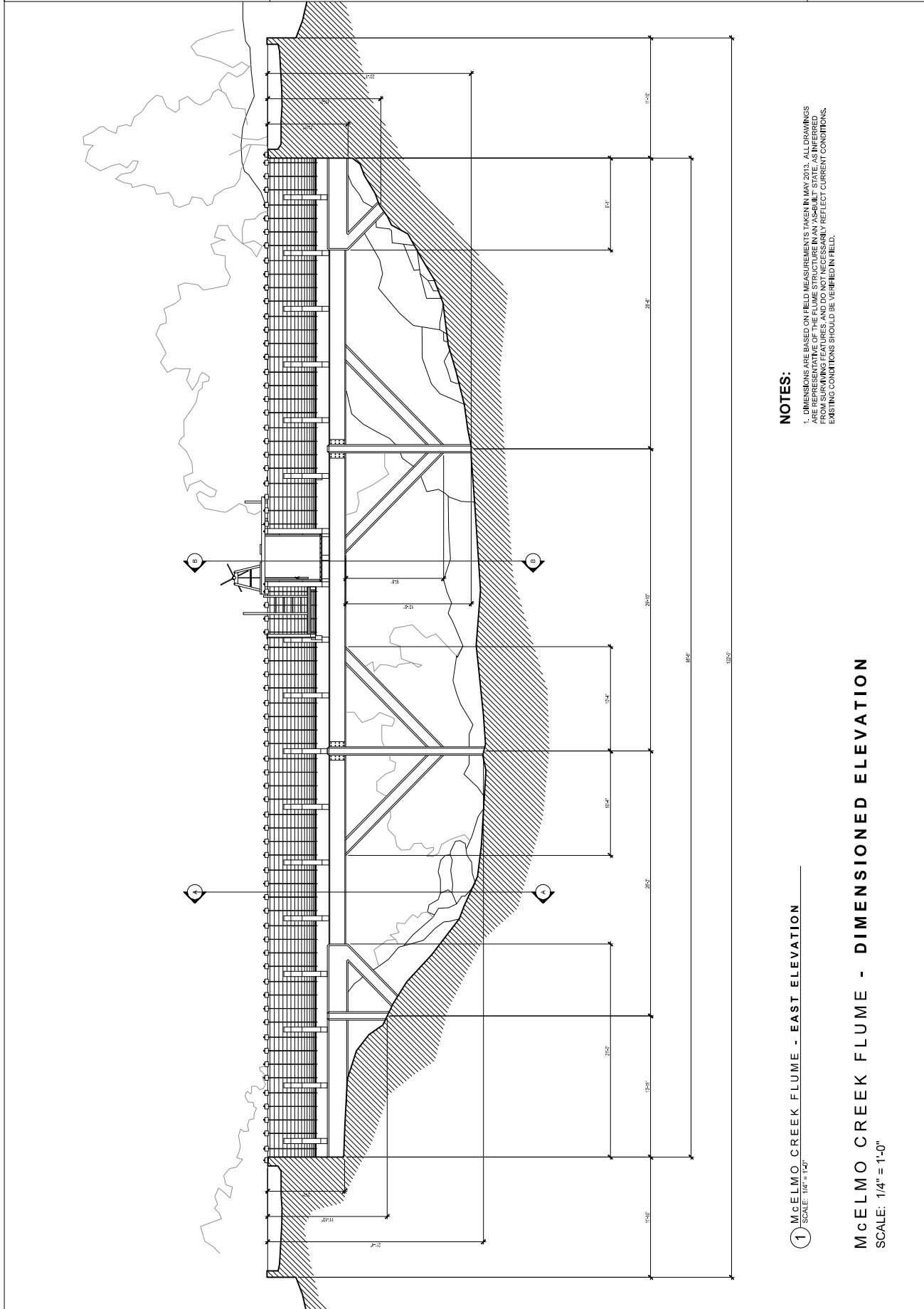


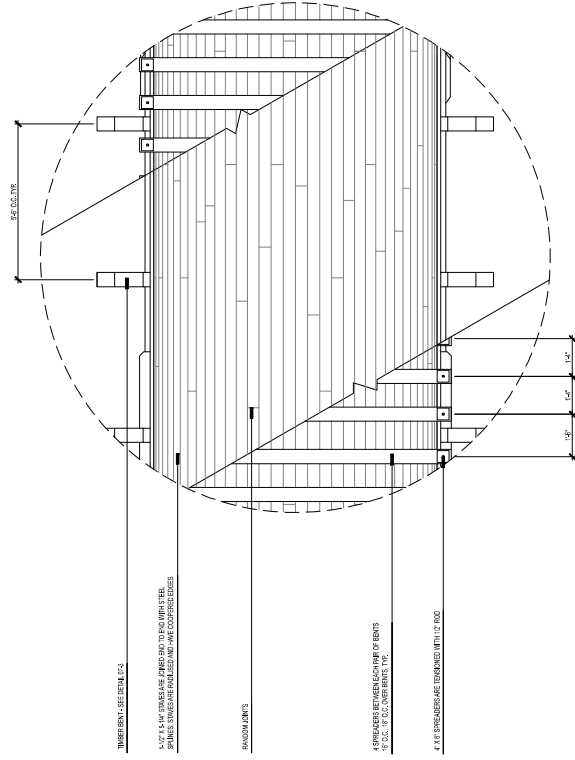
**NOTES:**

1. DIMENSIONS ARE BASED ON FIELD MEASUREMENTS TAKEN IN MAY 2013. ALL DRAWINGS ARE REPRESENTATIVE OF THE FLUME STRUCTURE IN AN AS-BUILT STATE, AS INFERRED FROM SURVIVING FEATURES, AND DO NOT NECESSARILY REFLECT CURRENT CONDITIONS. EXISTING CONDITIONS SHOULD BE VERIFIED IN FIELD.

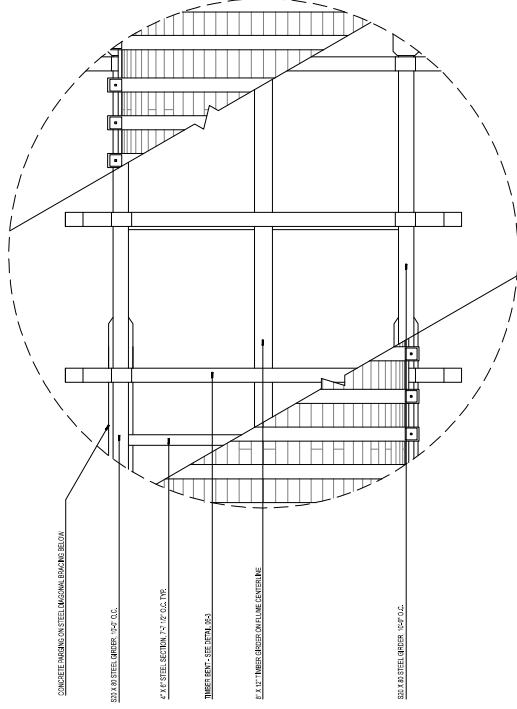
1 McELMO CREEK FLUME - PLAN VIEW  
SCALE: 1/4" = 1'-0"

**McELMO CREEK FLUME - DIMENSIONED PLAN**  
SCALE: 1/4" = 1'-0"

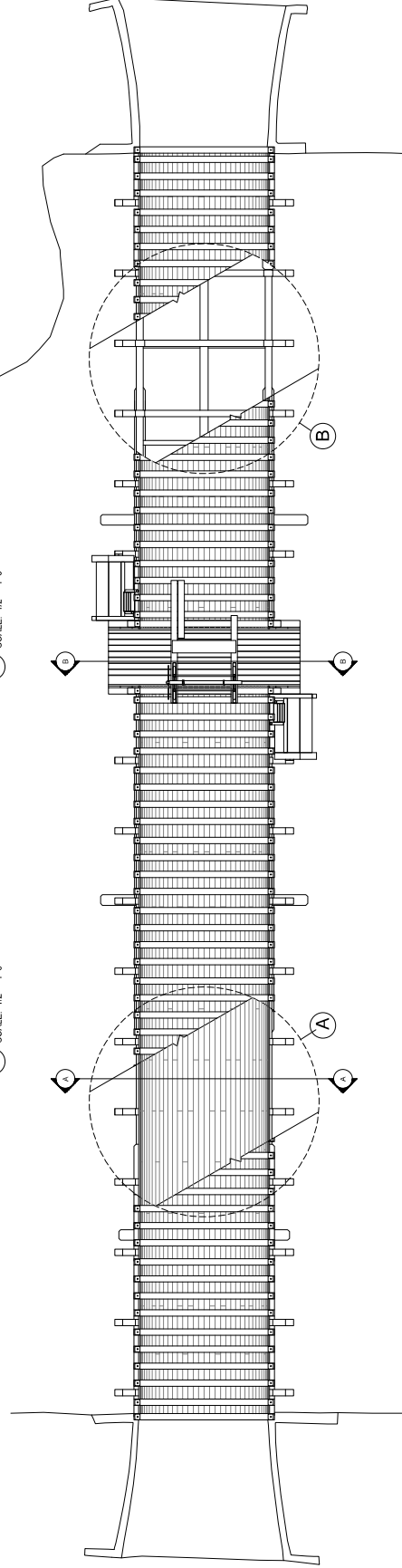




**A** **DETAIL OF STAVES AT "A" BELOW**  
SCALE: 1/2" = 1'-0"



**B** DETAIL OF FRAMING AT "B" BELOW  
SCALE: 1/2" = 1'-0"



1 McELMO CREEK FLUME - CUT-AWAY PLAN VIEW



MCELMO CREEK FLUME - PLAN DETAILS

SCALE: 1/4" = 1'-0"

**NOTES:**

1. DIMENSIONS ARE BASED ON FIELD MEASUREMENTS TAKEN IN MAY 2013. ALL DRAWINGS ARE REPRESENTATIVE OF THE FLUME STRUCTURE IN AN "AS-BUILT" STATE, AS INFERRED FROM SURVIVING FEATURES, AND DO NOT NECESSARILY REFLECT CURRENT CONDITIONS. EXISTING CONDITIONS SHOULD BE VERIFIED IN FIELD.

PO BOX 3002, BURLINGTON, VT

HIGHWAY 160, 3 MI EAST OF CORTEZ, MONTEZUMA COUNTY, COLORADO

06

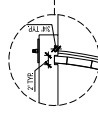
SCALE: 1/2" = 1'-0"

1. DIMENSIONS ARE BASED ON FIELD MEASUREMENTS TAKEN IN MAY 2013. ALL DRAWINGS ARE REPRESENTATIVE OF THE FLUME STRUCTURE IN AN "AS-BUILT" STATE, AS INFERRED FROM SURVIVING FEATURES, AND DO NOT NECESSARILY REFLECT CURRENT CONDITIONS. EXISTING CONDITIONS SHOULD BE VERIFIED IN FIELD.

## 2 PARGED STEEL MEMBERS - TYPICAL SECTIONS



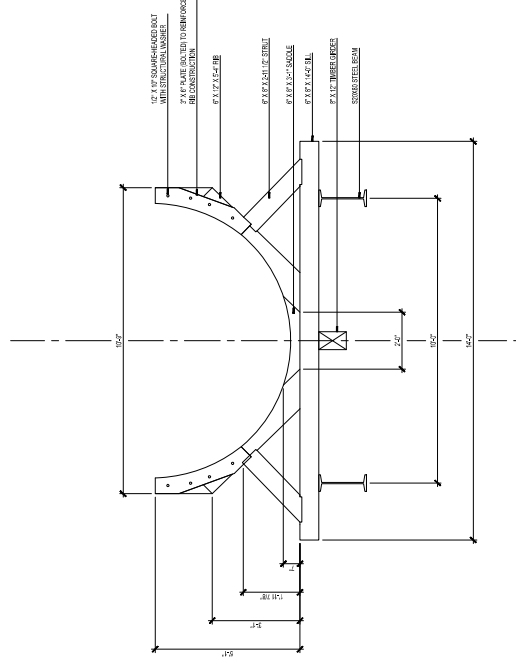
1 SOUTH PIER

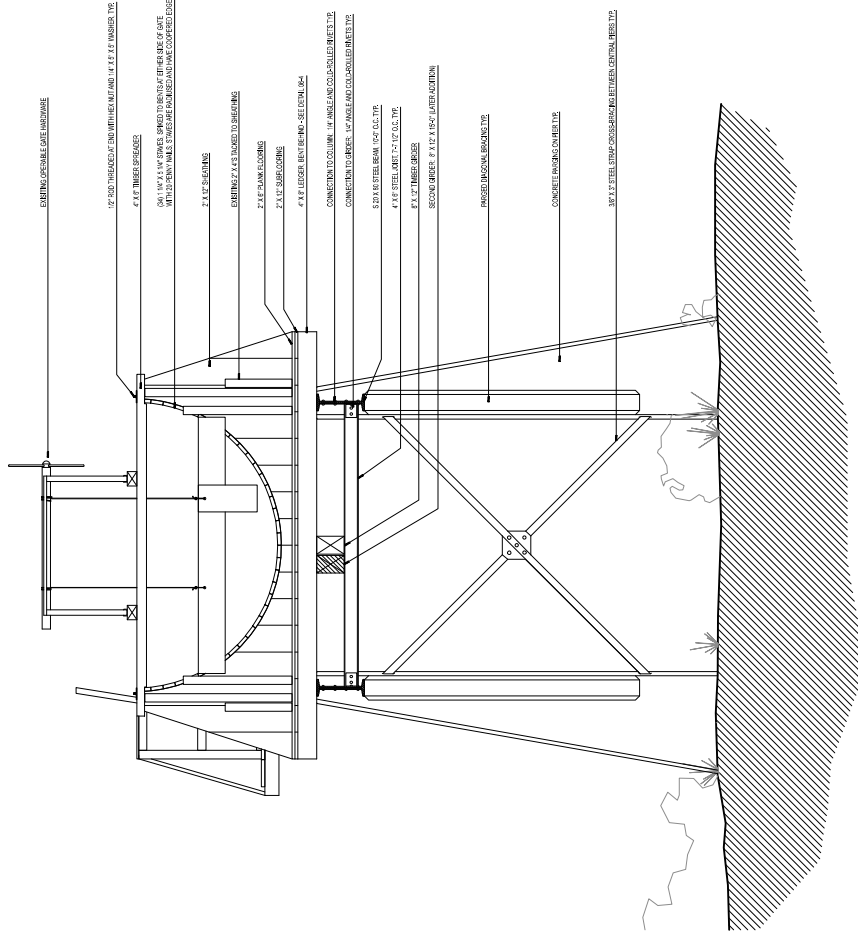
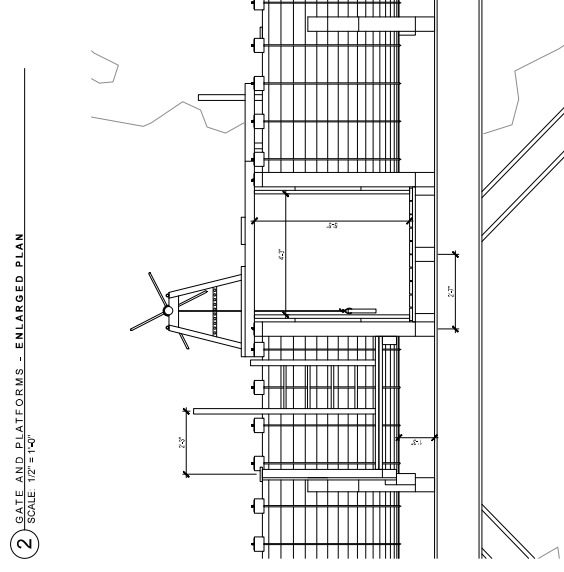
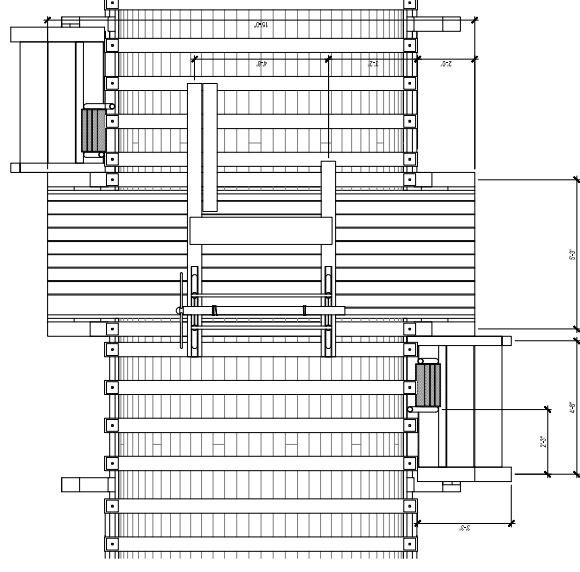


**TIMBER BEN**  
SCALE: 1/2" = 1'-0"



**TIMBER BENT**



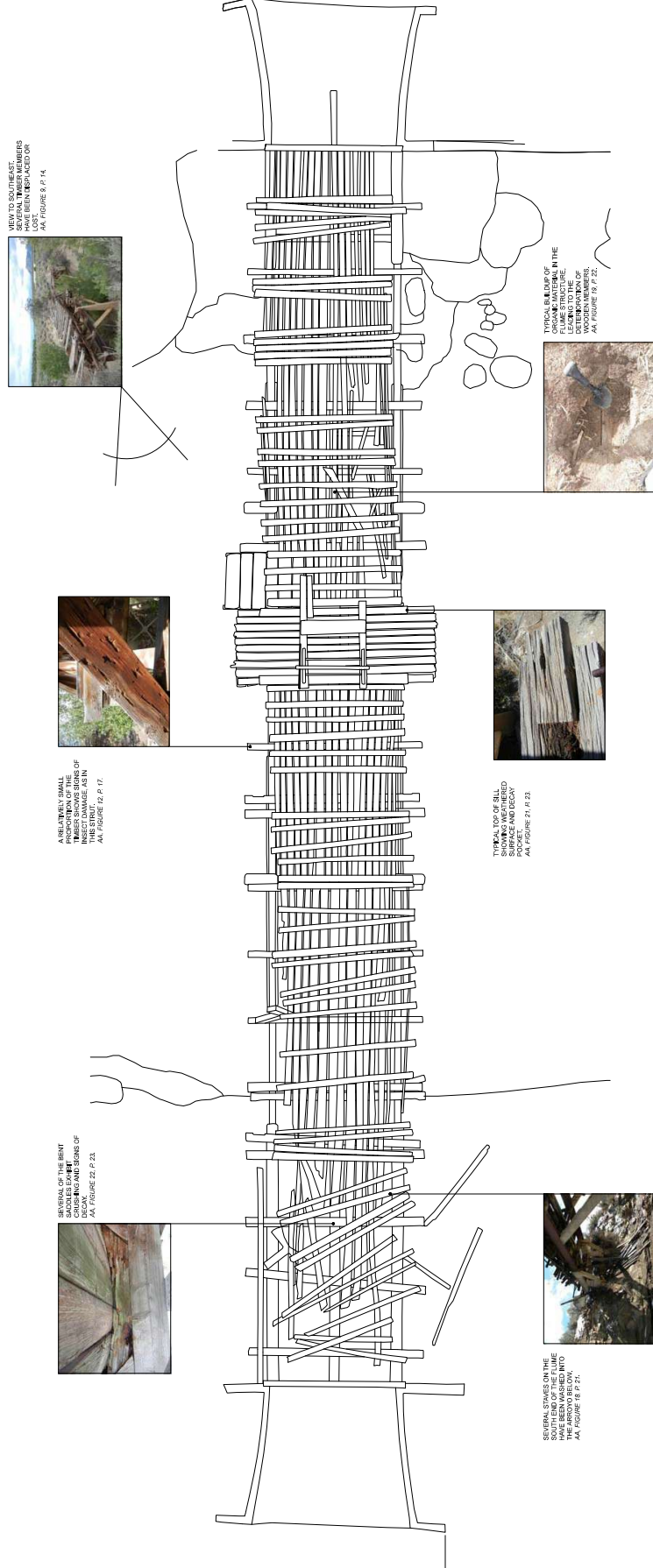


**NOTES:**

1. DIMENSIONS ARE BASED ON FIELD MEASUREMENTS TAKEN IN MAY 2013. ALL DRAWINGS ARE REPRESENTATIVE OF THE FLUME STRUCTURE IN AN "AS-BUILT" STATE, AS INFERRED FROM SURVIVING FEATURES, AND DO NOT NECESSARILY REFLECT CURRENT CONDITIONS. EXISTING CONDITIONS SHOULD BE VERIFIED IN FIELD.

## McELMO CREEK FLUME - SECTIONS AND DETAILS

SCALE: 1/2" = 1'-0"



**1 McELMO CREEK FLUME - PLAN VIEW**  
SCALE: 1/4" = 1'-0"

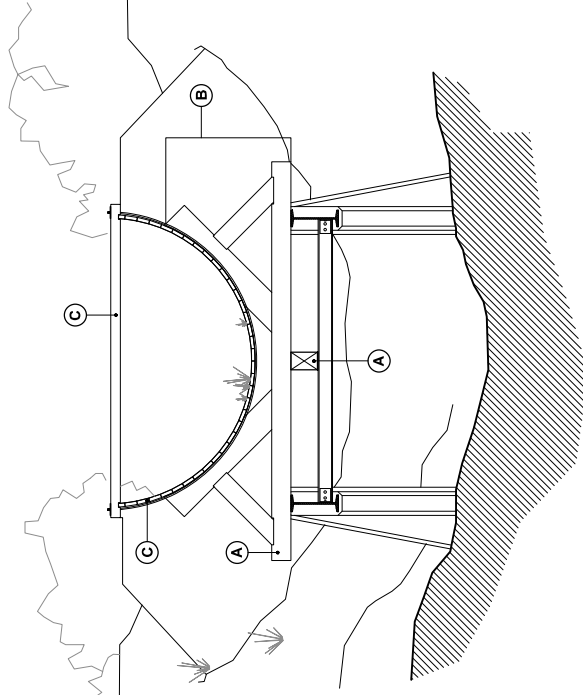
SCALE: 1/4" = 1'-0"

**NOTES:**

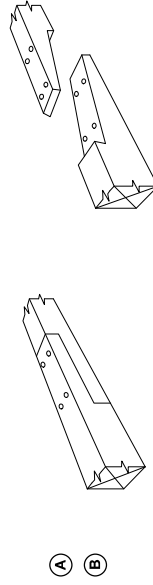
1. EXISTING CONDITIONS SHOULD BE VERIFIED IN FIELD.
2. **THREE REPAIR RECOMMENDATIONS AND PHOTOS FROM ANTHONY + ASSOCIATES (AA) ARCHAEOLOGICAL ASSESSMENT AND LIMITED CONDITION ASSESSMENT OF MONTEZUMA CASTLE NATIONAL MONUMENT & MONUMENTAL AREA, COCHISE COUNTY, ARIZONA, 15 SEPTEMBER 2010, REFER TO REPORT FOR DETAILED DESCRIPTIONS OF EXISTING CONDITIONS AND REPAIR RECOMMENDATIONS.**
3. **PLAN IMAGE COURTESY THE CENTER FOR PRESERVATION RESEARCH, UNIVERSITY OF COLORADO, DENVER.**

McELMO CREEK FLUME - CURRENT CONDITIONS - TIMBER

SCALE: 1/4" = 1'-0"



1 McELMO CREEK FLUME - SECTION THROUGH A-A

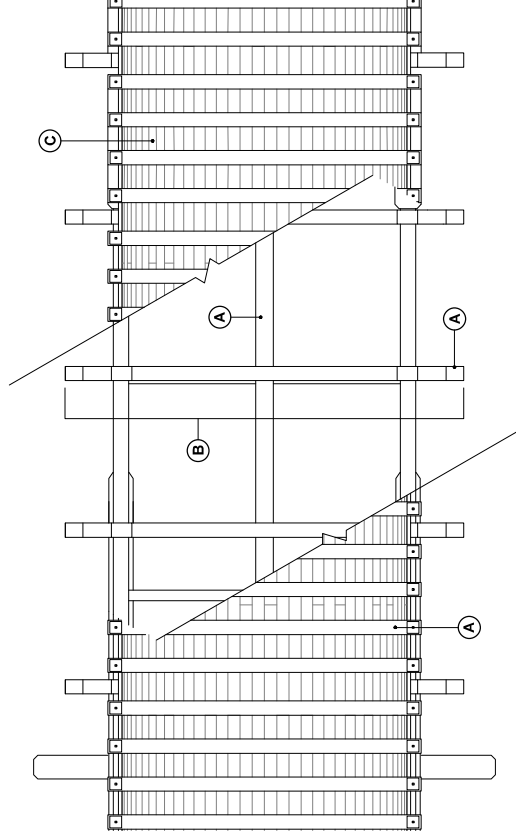


## 2 DETAILS - TYPICAL HALVED AND SPLAYED SCARF REPAIRS <sup>2 NTS.</sup>

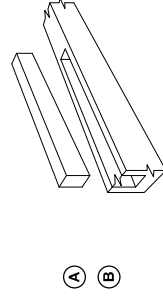
\* SCARF JOINT DIAGRAMS FROM: HIRST ET AL., THE STRUCTURAL PERFORMANCE OF TRADITIONAL OAK TENON AND SCARF JOINTS, 2009.

**McELMO CREEK FLUME - REPAIRS - TIMBER**

SCALE: 1/4" = 1'-0"



3 McELMO CREEK FLUME - CUT-AWAY PLAN VIEW



#### 4 DETAILS - TYPICAL DUTCHMAN REPAIR

**NOTES:**

- [illegible]



August 3, 2016

Mr. James Dietrich  
Public Lands Coordinator  
Montezuma County  
109 West Main Street  
Room 302  
Cortez, CO 81321

Dear Mr. Dietrich:

History Colorado has completed its review of grant applications (less than \$35,000) submitted to the State Historical Fund for the April 1, 2016 deadline. We are pleased to announce that a State Historical Fund grant of \$181,104 has been awarded to your project for Rehabilitation of the Montezuma Valley Irrigation Company Flume #6-McElmo Creek Flume-Flume #6. Congratulations!

Enclosed is a packet of information that will assist you as you move forward with your project, including business cards for the Historic Preservation Specialist and Grant Contracts Specialist assigned to your project. Also in this packet you will find a letter from your Grant Contracts Specialist outlining information needed from you in order to begin the grant contracting process. Please note that work cannot begin until a grant contract has been fully executed. After executing the contract, you should discuss the project with your assigned Historic Preservation Specialist before beginning work.

**As a condition of the receipt of this grant, Montezuma County and the property owner (if different from grant recipient) will be required to allow the State Historical Fund staff via the grant award contract to record a 20-year covenant on the site; even if there is an existing covenant on the site. In order to acknowledge this condition, the Montezuma County and the property owner must sign this letter with original signatures and dates, and return the signed letter with original signatures to our offices within 60 days, or your grant award may be rescinded. For additional information on the covenant requirement, please refer to the enclosed information sheet.**

If your project requires any approval by a federal or state agency, a federal or state agency license, or is receiving any type of federal or state agency funding, please contact History Colorado's Intergovernmental Services Director, Amy Pallante at (303) 866-4678 to determine if any consultation is needed pursuant to the State Register Act or Section 106 of the National Historic Preservation Act.

Please note that the State Historical Fund takes very seriously the issue of conflict of interest in regards to our grant projects. Please refer to our Handbook as well as the enclosed Grant Manual for an explanation of what constitutes a conflict of interest so that you may be sure to avoid it during your project.

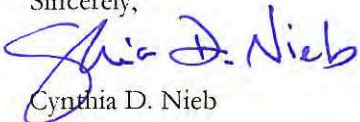
If you don't already have an active email address, you are required to obtain one and monitor it regularly for grant management purposes. Please notify SHF contracts staff ([shfcontracts@state.co.us](mailto:shfcontracts@state.co.us) include project # provided below) of any changes to your contact information from the information provided in the application.

Congratulations again on receiving this State Historical Fund award. We look forward to getting your project under contract and on its way to successful completion. If you have any questions about the grant award, please do not hesitate to contact Cynthia D. Nieb, Director, History Colorado, State Historical Fund at (303) 866-2809.

CALLER ON H/A



Sincerely,



Cynthia D. Nieb

Director

History Colorado State Historical Fund



Montezuma County

Date

Property Owner

Date

Project #: 17-01-032

Funded

3f644c5a-42a5-4c98-8631-fde079ca748d.doc

**Southwestern Water Conservation District  
Board of Directors Meeting  
October 11, 2016**

**Present:** John Porter, President                      Steve Fearn, Vice-President                      Bob Wolff, Secretary-Treasurer  
J.R. Ford (partial mtg by phone) Rusty Hinger                      Monte Naslund  
Jenny Russell                      Doug Stowe

**Absent:** David Guilliams

**Staff:** Bruce Whitehead, Southwestern Water Conservation District (SWCD) Executive Director  
Laura Spann, SWCD Programs Coordinator

**Consultants:** Carrie Lile, Harris Water Engineering  
Beth Van Vurst, Fairfield and Woods  
Peggy Montano, Trout, Raley, Montano, Witwer & Freeman (by phone)

**Guests:** Christine Arbogast, Kogovsek & Associates (by phone)  
Russell Berwell, Sullivan Ditch Company  
Jimbo Buickerood, San Juan Citizens Alliance  
Jeff Derry, Center for Snow and Avalanche Studies  
Laurie Dickson, Four Corners Office for Resource Efficiency  
James Dietrich, Montrose County  
Finn Kjome, Norwood Water Commission  
Kandace Kjome, Town of Norwood  
Amanda Kuenzi, Mountain Studies Institute  
Laura Kudo, Watershed Education Program (Telluride Institute)  
Rob Genualdi, Colorado Division of Water Resources  
Steve Harris, Harris Water Engineering  
David Mau, U.S. Geological Survey  
Darlene Marcus, U.S. Representative Scott Tipton  
Ann McCoy-Harold, U.S. Senator Cory Gardner  
Marc Miller, U.S. Bureau of Reclamation  
Gabi Morey, San Juan Mountains Association  
Caroline Munger, Sullivan Ditch Company  
Kevin Murphy, U.S. Geological Survey  
Jessica Pace, Durango Herald  
Elizabeth Stuffings, San Miguel Watershed Coalition  
Ed Tolen, La Plata Archuleta Water District  
Linda Towle, Public  
Jim Wells, Norwood Water Commission  
John Whitney, U.S. Senator Michael Bennet  
Mark Williams, Spring Creek Extension Ditch Company

President John Porter called the meeting to order at 9:30 a.m. Roll was taken and a quorum established.

**General Session**

**Approval of Minutes (August 9, September 8, September 15)**

*(time: 00:01:00)*

Doug Stowe moved to approve the August 9, September 8, and September 15 minutes. Rusty Hinger seconded.  
The motion passed unanimously.

## **Approval of Treasurer's Report (September 2016)**

(time: 00:01:30)

Bruce Whitehead and Laura Spann detailed the financial report, including the budget comparison, bank account summaries, and transaction detail. Steve Fearn moved to accept the Treasurer's Report. Bob Wolff seconded. The motion passed unanimously.

## **Board Member Reports**

### **Monte Naslund (Montrose County)**

(time: 00:08:40)

Nucla/Naturita had a good water year. The Tri-State Nucla Generating Station will be closing effective 2020.

### **Jenny Russell (San Miguel County)**

(time: 00:10:00)

The San Miguel Watershed Coalition met with stakeholders in the lower San Miguel basin and discussed the tax revenue impact to public services with the closing of the coal mine and generating station. Tri-State will likely be looking at water rights issues starting in 2017. San Miguel County and other entities submitted a letter to the CWCB board requesting their support for Wild and Scenic suitability findings on several stream reaches as part of the draft BLM/USFS Uncompahgre Joint Resource Management Plan. CWCB's ultimate position was to support the Wild & Scenic suitability findings made in the Plan.

### **Steve Fearn (San Juan County)**

(time: 00:13:30)

The EPA is considering treating discharges from not only the Gold King, but the American Tunnel and Red & Bonita mine as well. Trout Unlimited has said that a second trout species has appeared at Tall Timbers, and fishing has improved on the Animas in Durango. EPA is hoping to start early remediation projects, and will need an appropriation to fund the work.

### **Rusty Hinger (Mineral County)**

(time: 00:17:20)

The Village at Wolf Creek development is moving forward, and may affect water rights at the top of the pass. Pagosa Springs had a good tourist season this year.

### **Doug Stowe (Dolores County)**

(time: 00:18:00)

A workshop was held with David Robbins regarding the proposed Dolores River National Conservation Area.

### **Bob Wolff (La Plata County)**

(time: 00:18:45)

A ceremony was held in mid-September to recognize the groundbreaking on pipeline construction from Lake Nighthorse (aka Ridges Basin Reservoir) to Lake Durango, the initial pipeline phase of a larger project to bring a rural domestic water supply to western La Plata County. These efforts were spearheaded by the La Plata West Water Authority, and the Lake Durango Water Authority, and would not have been possible without the grant support from SWCD. The rural domestic water system may indeed be the first use from the Animas-La Plata Project. The boat inspection station and the turn lane for Lake Nighthorse are also under construction.

### **John Porter (Montezuma County)**

(time: 00:21:30)

At the proposed Dolores River NCA workshop with David Robbins, about 95% of the legislation has general consensus. Among the remaining issues are the formation of a state-sponsored fish monitoring team and dropping Wild & Scenic suitability on the lower Dolores in exchange for limiting future impoundments. There was discussion of David Robbins lobbying on behalf of the proposed legislation.

## **Agency Reports**

### **U.S. Geological Survey (USGS)**

(time: 00:26:00)

Kevin Murphy and David Mau reported that several monitors have been installed on Cement Creek, Mineral Creek, and the Animas River in San Juan County to measure water quality, temperature, and turbidity. These monitors are funded through fall 2018. Funding has been secured to continue operation of the Animas at Durango gage from SWCD, the ALPOM&R Association and the U.S. Bureau of Reclamation. Tall Timbers gage has been relocated to the Animas at Cascade Creek. It was suggested to rename the gage to "Animas below Cascade

Creek.” The San Juan at Pagosa gage will be temporarily inactive due to the replacement of a pedestrian bridge that will affect data collection. Kevin responded to board questions. *(Note: Due to follow up discussions after the October 11 meeting between Bruce and the USGS, the name of the gage will continue to be “Animas River near Tall Timbers” to avoid confusion in administration of the recent ALP water rights case.)*

### **Colorado Foundation for Water Education (CFWE)**

*(time: 00:36:45)*

Laura Spann was elected to replace Steve Fearn on the CFWE board beginning in January 2017. Among the other new 2017 board members are Kate McIntyre, Jorge Figueroa, Travis Robinson, and Rick Cables. Nicole Seltzer, Executive Director, and Kristin Maharg, Program Manager, have announced their departure. Kristin’s replacement, Stephanie Scott, and Nicole will meet with Bruce, Steve and Laura in Durango sometime in November to begin planning the 2017 Basin Tour in southwestern Colorado. The search for a new executive director has begun, with interviews anticipated to start in late November. CFWE’s 2017 budget is \$636,000, which has increased from \$550,000 several years ago and allowed for a beneficial expansion of programs.

### **Colorado Water Resources & Power Development Authority (CWR&PDA)**

*(time: 00:41:35)*

CWR&PDA’s small hydropower loan fund is dwindling, and staff was directed to generate a recapitalization proposal for the next board meeting. The Authority continues to work with the CWCB to discuss vehicles for funding water plan implementation.

### **U.S. Bureau of Reclamation (BOR)**

*(time: 00:44:20)*

Marc Miller reported area reservoir levels. Bruce expressed concerns regarding the reversal of MOA funding approvals by the BOR, some of which were to support approved projects along the Florida River.

### **Colorado Water Conservation Board (CWCB)**

*(time: 00:49:10)*

April Montgomery provided an update via email, which Bruce relayed to the board:

- CWCB is now distributing a monthly newsletter that provides a summary of the last meeting.
- Becky Mitchell reported to the CWCB board on Colorado water plan implementation efforts, which are posted on the Colorado Water Plan website. Implementation efforts will become a regular agenda item at each CWCB meeting.
- The board approved changes to the Water Supply Reserve Fund Criteria and Guidelines. Perhaps the most significant changes were made to requirements regarding matching for statewide and basin grants (but with the provision of a waiver), roundtable implementation of a conflict of interest policy, and the establishment of a competitive bid process for roundtable grants over \$100,000. The final version is on the CWCB homepage.
- The board spent some time talking about its current strategic plan and next steps for updating it in light of the water plan.

### **Interbasin Compact Committee (IBCC) & Roundtable**

*(time: 00:54:50)*

The primary discussion at the last IBCC meeting in August was how to fund water plan implementation, including the proposal of a container fee. There was also an emphasis on multi-purpose projects, and what sideboards might be placed on the use of any proposed new funding vehicle. Eric Kuhn has presented on the Joint West Slope Curtailment Risk Study to the IBCC, several Roundtables, the River District and SWCD. An RFP has gone out for further study of Front Range storage per legislation passed in 2016. The next IBCC meeting is scheduled for late November. The next Roundtable meeting is October 12. There were no applicants for the open at large agricultural seat, so the seat will remain open with additional interest being sought. San Juan RC&D (Carrie Lile and Ann Oliver) has received the Notice to Proceed from CWCB for the Basin Implementation Plan grant funding.

### **River Protection Workgroup**

*(time: 01:09:50)*

A steering committee meeting scheduled for November 1 was postponed to allow for informal discussions to continue regarding a draft outline for proposed legislation. The goal is to have draft legislation agreed upon to present to the new Congress in early 2017.

**Water Information Program (WIP)***(time: 01:11:20)*

New 2016 WIP partners are Trout Unlimited Five Rivers Chapter, The Nature Conservancy, SGM-Bikis Water Consultants, and La Plata West Water Authority. The Fifth Annual Forest-to-Faucets Teacher Training Workshop was held in late June and sold out. The Annual Water 101 Workshop in late September had more than 60 attendees, and the Pilot Water 202 session was well received. The WIP Steering Committee met on September 27 and approved a budget to recommend to the SWCD board. They also reviewed the four educational applications for consideration by the SWCD board today, and those recommendations are provided to the board in a handout.

**Division of Water Resources***(time: 01:13:15)*

Rob Genualdi added that the CWCB called for the Dolores River instream flow. The call is being administered by DWR as extending above McPhee Reservoir. There are no structures being called out in Division 4, but a few minor flows curtailed in Division 7. The call will affect reservoir administration for the first and second fills on Groundhog and McPhee Reservoirs. As of the date of the meeting, the call has not resulted in any additional flows below McPhee Reservoir for the ISF water right

**Colorado Water Congress (CWC)***(time: 01:18:10)*

The Summer Conference in late August in Steamboat had record attendance. The CWC board adopted a resolution in support of Amendment 71 (Initiative 96) asking voters to mandate minimum ballot initiative signature requirements with geographic diversity of 2% of voters in all 35 State Senate Districts, and increasing the threshold for ballot initiative voter approval from 50% to 55% in order to amend Colorado's Constitution. At the most current Colorado Water Stewardship Project meeting, there was discussion of the long term role of the program. The proposed 2017 budget for CWC is \$900,000. The next CWC board meeting is December 9.

**Questions/Comments from the Audience***(time: 01:28:00)*

Jimbo Buickerood commented that Water 202 was a productive and engaging workshop.

**Office Report***(time: 01:29:50)*

Bruce Whitehead directed board members to the written Executive Director report, which he summarized:

- Bruce summarized stream flows and reservoir levels.
- SWCD Project Water Rights and the USFS reserved water rights will be discussed further in executive session.
- Files continue to be transferred from Maynes, Bradford, Shipps & Sheftel.
- Bruce detailed legislation from the Interim Water Resources Review Committee to be proposed in the 2017 session.
- Board members were directed to a letter of support for a barrier on Hermosa Creek, a project put forward by Five Chapters Trout Unlimited.
- Laura is expecting a child and will be taking family leave in late March/early April 2017. She and Bruce have begun working on a plan to cover her responsibilities in her temporary absence.

**Old Business****Instream Flow – Future Use Allocation***(time: 01:40:00)*

Several board members attended a meeting with other stakeholders regarding the possible incorporation of a future use allocation in instream flows appropriated by the CWCB. There was discussion of suggesting that the CWCB address this issue as part of their strategic planning process.

**Proposed Budget Fiscal Year 2017***(time: 01:43:40)*

Several board members attended the September workshop, at which the board and staff evaluated the draft FY 2017 budget line by line. Additional discussions will take place in Executive Session to discuss employee compensation. The budget notice will be published by October 15, with the draft budget available to the public after that date. The public budget hearing will be held during the board meeting scheduled for December 6.

## New Business

### Resolution 16-04 in Support of Initiative 96

(time: 01:58:50)

Steve Fearn moved to adopt Resolution 16-04 in support of Initiative 96 (Amendment 71) "Raise the Bar, Requirements for Initiated Constitutional Amendments." Doug Stowe seconded. The motion passed unanimously.

### Ltr to Congressional Delegation Re. Water Resources Development Act (\$2848)

(time: 02:02:40)

Christine Arbogast, John Whitney, Ann McCoy-Harold, and Darlene Marcus summarized recent activity regarding the Water Resources Development Act (WRDA), the vehicle for U.S. Army Corps of Engineers project funding. The Colorado Delegation is working on several items for inclusion in the WRDA, including provisions to 1) help local entities receive reimbursement for costs associated with the Gold King Mine incident and 2) prevent aquatic nuisance species in Colorado waterways. Governor Hickenlooper, the River District and the Dolores Water Conservancy District have submitted letters in support of these provisions. Steve Fearn moved to direct staff to write a letter to the Colorado Congressional Delegation regarding provisions proposed for inclusion in the Water Resources Development Act. Monte Naslund seconded. The motion passed unanimously. There was consensus to further strategize how to garner a broader coalition to support additional funding for aquatic nuisance species management before sending a letter to other entities such as the U.S. Bureau of Reclamation.

### Proposed 2017 SWCD Board Meeting Schedule

(time: 02:27:50)

Bruce Whitehead explained the proposed 2017 board meeting schedule. Steve Fearn moved to adopt the 2017 board meeting schedule. Monte Naslund seconded. The motion passed unanimously.

### Grant Request: Norwood Water Commission

(time: 02:32:50)

Finn Kjome, Jim Wells, and Kandace Kjome presented the 2017 request for \$175,000 to support delivering a portion of current agricultural water shares to Norwood water customers for lawn and garden irrigation purposes. This project is designed to increase Norwood's water security during drought, lessen demand upon the Norwood water treatment plant and defer the need for plant expansion, and to provide chloramine-free water for gardens, lawns, trees, shrubs and other irrigation needs. The Town's immediate goal is to complete construction of Phase 1, which consists of the full build-out of the Raw Water System within Norwood Town Boundaries, for water supplies to be provided at a raw water shack. Norwood will request \$50,000 from the Roundtable in January. The total cost for Phase 1 is \$462,868. Presenters responded to board questions regarding tap fees, matching funds, and phased costs.

### Grant Request: San Miguel Watershed Coalition

(time: 03:03:31)

Elizabeth Stuffings presented the request for \$3,200 to support 2016-17 education and outreach, specifically a cleanup at the Dolores-San Miguel confluence to increase local awareness of river issues, the annual Watershed Forum at which stakeholders share information related to watershed health, and an interactive map and website education/outreach for easily-accessible river information. The combined total cost of these tasks is \$5,350. The Coalition has secured support from San Miguel County, the Town of Telluride, the Town of Mountain Village, and donations local sponsors. The Coalition is also contributing \$200 for informational packets and time and labor from volunteer board members. The WIP Steering Committee recommended the grant request for approval by SWCD at 50% of the total project budget, or no more than the reduced amount of \$2,675. In addition, it was suggested to find sponsors for Task 1 instead of requesting funding. Elizabeth responded to board questions.

### Grant Request: Telluride Institute

(time: 03:20:00)

Laura Kudo presented the 2016-17 request for \$6,000 to support the Watershed Education Program, which provides full-day, multi-day, and overnight field trip curriculum planning and implementation to Telluride, Norwood, West End, and Paradox Valley Charter schools. The Watershed Education Program uses the San Miguel Watershed as a non-arbitrary, place-based teaching tool for physical, ecological, hydrological, cultural, historical, and economic relationships. Funding partners include the Telluride and JFK Foundations. The estimated project costs are \$68,370 for 2016 and \$56,570 for 2017. The WIP Steering Committee recommended the grant for approval in the full amount. Laura responded to board member questions regarding the portions of the program specifically focused on water.

**Grant Request: Center for Snow and Avalanche Studies***(time: 03:34:30)*

Jeff Derry presented the 2017 request for \$5,000 to support monitoring and sampling of dust-on-snow deposition in the San Juan Mountains. In addition, the Center will publish regular alerts and updates throughout the winter and spring describing current dust-on-snow conditions and forecasting how dust will impact snowmelt timing and rates. Funding partners include the U.S. Bureau of Reclamation, the City of Grand Junction, the River District, CWCB, and Upper Gunnison River Water Conservancy District, among others. Jeff responded to board questions.

**Grant Request: Montezuma County***(time: 03:52:20)*

Linda Towle and James Dietrich presented the 2017 request for \$40,000 in support of completing rehabilitation of the McElmo Creek Flume located east of Cortez—the only wooden flume remaining from the water delivery system built in the 1890s. The final phase of restoration is repairing the wooden trough of the flume at an estimated cost of \$241,472. Montezuma County has received a State Historical Fund grant for \$181,104, or 75% of the project cost. Additional funds will be requested from the Southwest Basin Roundtable, the Ballantine Family Fund, the Montezuma County Historical Society, Montezuma County, the Ute Mountain Ute Tribe, Montezuma Valley Irrigation Company and the National Trust for Historic Preservation. Linda and James responded to board questions.

**Grant Request: Mountain Studies Institute (Forest to Faucets)***(time: 04:06:10)*

Amanda Kuenzi and Gabi Morey presented the request for \$9,648 in support of the 2017 Forest to Faucets Teacher Training Workshop, a program designed to provide 25-30 teachers with 16 hours of in-depth education about watershed science and local water resources. The workshop is organized in partnership with WIP and the San Juan Mountains Association, and builds off of four years of previous workshops and a classroom-based demonstration project. The 2017 workshop will focus on the Upper San Juan River Basin near Pagosa Springs. Expanding on previous programs, this year's workshop will reach out to middle and high school teachers, as well as provide an additional half-day workshop about stormwater education for all grades. The WIP Steering Committee recommended the grant request for approval in the full amount. Amanda responded to board member questions.

**Grant Request: Four Corners Office for Resource Efficiency (4CORE)***(time: 04:22:30)*

Laurie Dickson presented the request for \$7,000 to support the HomeH2O Program, an educational effort to provide La Plata County residents with information, workshop opportunities and equipment for rainwater harvesting and continued water conservation education. The program includes six presentations for water conservation and program details, at which time residents can sign up for additional workshops on how to build their own rain barrel or opt for a complete kit purchase in a group buy program. The estimated project cost is \$47,200. 4CORE has requested \$18,000 from the City of Durango, and would generate revenue from the workshops and rain barrel kits to help with covering program costs. The WIP Steering Committee recommended the grant request for approval in the full amount, contingent upon securing the significant funding commitment from the City of Durango or another source. Board members reported their experiences with rainwater harvesting and Laurie responded to questions.

**Grant Request: River District (West Slope Curtailment Risk Study)***(time: 04:36:50)*

The River District is requesting \$24,750 to support Phase II of the Joint West Slope Roundtable Curtailment Risk Study. Phase II would provide additional hydrologic analysis using CRSS, modeling of alternative approaches for demand management, and the development of a "risk ranking" for the various drivers that may contribute to a Powell deficit. The estimated study cost is \$89,500. Funding requests will also go to the four West Slope Roundtables, each for \$10,000. The River District requests that the remaining balance, \$49,500, to be split between the River District and SWCD.

**Grant Request: Water Bank Working Group Phase IIC***(time: 04:40:00)*

The Water Bank Working Group (WBWG) is requesting \$35,000 to support the Grand Valley Water Users Association pilot program and other expenses for 2017. The proposed 2017 pilot program budget estimates

expenses at \$1,000,000, with continued CSU research bringing the total WBWG 2017 budgeted expenses to \$1,075,000. Funding will come from the System Conservation Pilot Program (UCRC), working group partners, a proposed CWCB alternative transfer methods grant, and foundation funding secured by The Nature Conservancy. In previous years, SWCD has supported the WBWG in the range of \$15,000 annually. The request of \$35,000 is for 2017 based on a two year budget projection for the WBWG, with no additional funding request from SWCD anticipated in 2018.

### **Grant Request: Spring Creek Extension Ditch Company**

(time: 04:42:45)

Mark Williams presented the request for \$29,000 in support of the replacement of an existing inverted siphon that carries the East lateral of the Spring Creek Ditch under the Pine Valley Canal. The inverted siphon is a concrete pipe that is approximately 75 years old and has deteriorated to a point that a failure of the siphon is likely. Failure of the siphon during irrigation season would interrupt irrigation supplies to approximately 1,200 acres of land and around 65 shareholders. The estimated project cost is \$65,908. Funding has been approved by the Roundtable for \$29,000. Ditch shareholders have committed \$8,000. Mark responded to board questions.

### **Grant Request: Sullivan Ditch Company**

(time: 04:47:15)

Russell Berwell and Caroline Munger presented the request for \$27,298 in support of piping and repairing two sections of the Sullivan Ditch, which are at risk due to the soil composition and the proximity of the ditch to the edge of a cliff. Funding is also being requested from the Roundtable. Shareholders will fund one third of the project costs. The total cost is estimated at \$81,895. Russell and Caroline responded to board questions.

### **Financial Assistance Requests Approval**

(time: 04:52:20)

The board made the following motions:

- Center for Snow and Avalanche Studies, \$5,000, 2017, Jenny Russell moved for approval, Steve Fearn seconded, passed;
- Four Corners Office for Resource Efficiency, \$7,000, 2017, Monte Naslund moved for denial, Bob Wolff seconded, passed;
- Montezuma County, reduced to \$15,000, 2017, Doug Stowe moved for approval, Monte Naslund seconded, passed;
- Mountain Studies Institute, \$9,648, 2017, Jenny Russell moved for approval, Bob Wolff seconded, passed;
- Norwood Water Commission, \$175,000, 2017, Steve Fearn moved for approval contingent upon securing commitments for other funding for Phase I to supply water via the water shack, Jenny Russell seconded, passed 6-1;
- River District (West Slope Risk Assessment Study), up to \$24,750, 2016, Bob Wolff moved for approval, Steve Fearn seconded, passed;
- San Miguel Watershed Coalition, \$2,675, 2016-17, Jenny Russell moved for approval at the reduced amount of 50% of total project budget or \$2,675 from the requested amount of \$3,200, Bob Wolff seconded, passed 4-3;
- Spring Creek Extension Ditch Company, \$29,000, 2017, Steve Fearn moved for approval, Rusty Hinger seconded, passed 5-2;
- Telluride Institute, \$6,000, 2017, Jenny Russell moved for approval, Doug Stowe seconded, passed;
- Sullivan Ditch Company, \$27,298, 2016, Rusty Hinger moved for approval, Monte Naslund seconded, passed; and
- Water Bank Working Group Phase IIC, \$35,000, 2017, Steve Fearn moved for approval, Bob Wolff seconded, passed.

### **Engineering Report**

(time: 05:45:30)

Carrie Lile referred board members to the written report, and highlighted the following:

- **San Juan River Basin Recovery Implementation Program (SJRBRIP):** This year's small bodied fishes monitoring trip captured 23 age-0 Colorado Pikeminnow across multiple sample sites. This is unprecedented and indicates that is a year class of wild spawned Colorado Pikeminnow in the San Juan River. Discussions will continue to tackle outstanding questions regarding non-native fish removal.



- **Water Bank Working Group (WBWG):** A meeting in Thursday in Grand Junction will cover the pilot effort with Grand Valley Water Users Association. Carrie has joined the outreach sub-group, which plans to generate general presentations, including a white board video, for use as outreach products. Carrie also presented on the Water Bank at the Water 101 seminar. The Upper Colorado River Commission is now soliciting proposals for the third cycle of the System Conservation funding. The Grand Valley Water Users Association pilot may fit the criteria to submit a funding application.

## General Counsel Legal Report

(time: 05:52:00)

Beth Van Vurst referred the board to the written report, and highlighted the following:

- **Water Quality Control Commission – Regulation No. 31 Rulemaking Proceeding:** Despite being unwilling to adopt the transition zone and shoulder season proposals on a statewide basis, the Commission made clear that it is open to considering whether it is appropriate to implement these proposals on a more regional or site-specific basis. The next opportunity for that to occur is at the rulemaking hearing for the San Juan, Dolores and Gunnison river basins, which will be held in June 2017. There will be a number of entities from across the State participating in that hearing because those entities view the San Juan-Gunnison river basins hearing as an opportunity to “test drive” the transition zone and shoulder season proposals. Beth attended a scoping meeting for the Temperature Workgroup on September 29, which was held to gauge public interest and develop an advisory committee that is comprised of 8-10 technical experts from across the State. An informational hearing will be held on November 14.
- **Uncompahgre Resource Management Plan and Environmental Impact Statement:** Public comments are due on November 1. There was significant board discussion regarding how SWCD should weigh in. The CWCB Board has expressed support for Wild and Scenic suitability findings as part of the draft RMP. There was board consensus to direct staff and legal counsel to submit comments that do not challenge Wild and Scenic suitability on proposed reaches, express general support for the stakeholder process, and state any concerns with the draft plan in general terms.
- **City of Ouray, Case No. 13CW3040, Division 7; Case No. 13CW3072, Water Division 4:** Settlement negotiations are progressing favorably. SWCD entered into a settlement on Case No. 13CW3072. It is likely Case No. 13CW3040 will be resolved under similar terms. Board members were directed to the full details in the written legal report.
- **Personnel Matters:** This topic was recommended for executive session.
- **Contract Matters:** This topic was recommended for executive session.
- **USFS Federal Reserved Rights, Case No. W-1605-76, Division 7:** This topic was recommended for executive session.
- **San Luis Valley Water Conservancy District, Case No. 14CW3011, Division 3:** A settlement negotiations meeting has been proposed for early November.
- **Treasure Pass Ditch, Case No. 10CW36, Division 3:** The status conference is scheduled for October 24.

## Special Counsel Legal Report

(time: 06:17:35)

Peggy Montano reported that in Case No. 13CW3011 (Animas La Plata Project water rights), SWCD filed a Motion for Supplemental Findings for the decree entered by the judge in early 2016. That Motion is still pending before the court. Objector responses are due by October 21. This topic was recommended for executive session.

## Executive Session

(time: 06:18:46)

Beth Van Vurst recommended that the board go into executive session for the purpose of discussing the SWCD Project water rights, USFS reserved rights (W-1605-76), personnel matters, and contract matters. The statutes covering this session are § 24-6-402(4)(b), C.R.S., “conferences with an attorney for the district for the purposes of receiving legal advice on specific legal questions,” § 24-6-402(4)(e), C.R.S., “determining positions relative to matters that may be subject to negotiations; developing strategy for negotiations; and instructing negotiators,” and § 24-6-402(4)(f), C.R.S., “personnel matters.” Bob Wolff moved that the board go into executive session. Monte Naslund seconded. The motion passed unanimously. Jenny Russell left the meeting before executive session. Bob Wolff and JR Ford (by phone) participated in a portion of the executive session.

Beth Van Vurst announced that the board was out of executive session, during which no action was taken. The board discussed the SWCD Project water rights, USFS reserved rights (W-1605-76), personnel matters, and contract matters. Direction was provided to staff and legal counsel regarding negotiations.

Monte Naslund moved to increase the Office Manager's compensation by \$4,450 effective December 1 to comply with the Department of Labor Overtime Rule. Rusty Hinger seconded. The motion passed 5-0.

Steve Fearn moved for termination of contract services with Environmental Dimensions. Monte Naslund seconded. The motion passed 5-0.

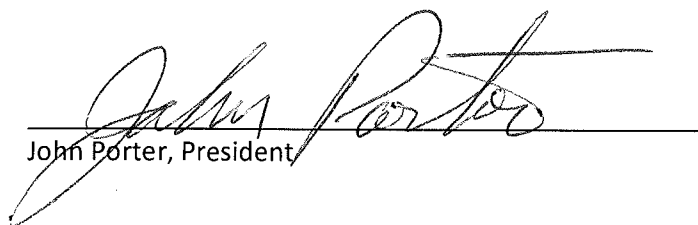
Steve Fearn moved to increase the proposed budget for Aid to Water Management & Development from \$500,000 to \$650,000. Doug Stowe seconded. The motion passed 5-0.

### **Next Meetings**

Tuesday, December 6                      10:00am                      Special Regular Board Meeting

### **Adjournment**

President John Porter adjourned the meeting at 7:00 p.m.



John Porter, President



**THE SOUTHWESTERN WATER CONSERVATION DISTRICT**

Developing and Conserving the Waters of the  
SAN JUAN AND DOLORES RIVERS AND THEIR TRIBUTARIES  
IN SOUTHWESTERN COLORADO  
**West Building – 841 East Second Avenue**  
**DURANGO, COLORADO 81301**  
(970) 247-1302

March 22, 2016

The History Colorado State Historical Fund  
History Colorado Center  
1200 Broadway  
Denver, CO 80203

To Whom it May Concern:

On behalf of the Board of Directors of the Southwestern Water Conservation District (SWCD), the purpose of this letter is twofold.

First, we sincerely thank you for your initial major contribution to this project. Work is complete on repairing the foundation of the McElmo Creek Flume. The highway pullout on the Trail of the Ancients Scenic Byway is also now complete. The pullout will have interpretive signs. From our perspective the work so far is quite impressive. It is now time to fix the wooden superstructure, which will complete the entire project.

Our District was established by the Colorado legislature to conserve and protect the waters of the San Juan and Dolores Rivers and their tributaries. The District currently manages a grant program, and also has committed funds to the restoration of the McElmo Flume. Normally, our grant program includes funding for water supply projects, water quality studies, or habitat improvements. This grant is very unique, and broadly supported by the board, because of the value water history has in our corner of the State. As our Board looks to the region's water future, there must be reflection on the past.

As you are aware, the project is the last remaining structure of what was an extensive system of wooden flumes that serviced Cortez and the surrounding area in the late 1800s. It is ideally located along to Highway 160, just miles from Mesa Verde National Park, where throngs of visitors go each year to explore the history of the region. What better place to emphasize the importance of water availability to the history of the West.

Secondly, the SWCD board respectfully requests that you give favorable consideration to a second contribution to finish the McElmo Flume Project.

Thank you in advance for your time and attention to this project.

Sincerely,

John Porter  
Board President



**CROW CANYON**  
ARCHAEOLOGICAL CENTER  
Discover the Past, Share the Adventure

March 18, 2016

The State Historical Fund  
History Colorado - Colorado Historical Society  
1200 Broadway  
Denver, CO 80203

Dear grant review committee,

The Crow Canyon Archaeological Center is pleased to support to the Montezuma County Commissioners' proposal to fund the project "Rehabilitation of McElmo Creek Flume Wooden Superstructure. The Flume is a critical part of Montezuma County's history—a physical reminder of the late 18<sup>th</sup> and early 19<sup>th</sup> century history of water management and use. Crow Canyon is supportive of the Commissioners' efforts to highlight, interpret, and communicate Montezuma County's cultural history through the vehicle of the Flume, and to make that history more accessible to local populations and to visitors alike.

Crow Canyon's mission is to advance knowledge of the human experience through archaeological research, educational programs, and collaboration with American Indians. Located in southwestern Colorado (the homeland of the ancestral Pueblo Indians), the Center conducts sustained field research in collaboration with the public, creates and delivers engaging and enriching educational materials and programs, collaborates with American Indians to develop and implement research and education programs, and disseminates its work through multiple media.

The Flume's rehabilitation and interpretation mesh well with Crow Canyon's mission and current projects. The Flume illustrates that critical part of the area's history that focuses on historic water use, thereby extending the story of prehistoric water use told that is reconstructed from the area's plentiful archaeological remains. Crow Canyon has met with a Montezuma County Historical Society representative to discuss our mutual interest in the Flume and its history. We agree that local school children should have the opportunity to visit and learn about the Flume, and to learn about the importance of water in arid southwestern Colorado. Accordingly Crow Canyon plans to work with Montezuma County Historical Society staff to incorporate the story of the McElmo Creek Flume into the educational curriculum that Crow Canyon is coordinating as part of the Southwestern Colorado Community Education Project, which is part of SHF grant 2014-02-035. Because water flowed through the Flume to Towaoc (the headquarters of the Ute Mountain Ute Tribe), the history surrounding the Flume also intertwines with the tribe's history.

TOTA's proposed project will contribute to the goals of the Colorado Statewide Preservation Plan, and it complements the preservation, outreach, and educational efforts of other organizations in southwestern Colorado. We encourage the State Historical Fund to add its generous support to this project.

Sincerely,

Shirley Powell, Vice President of Programs



March 25, 2016

History Colorado  
State Historical Fund  
1200 Broadway  
Denver, CO 80203

In 2011 Colorado Preservation Inc. placed the McElmo Creek Flume in Montezuma County on its' Most Endangered Places List. The McElmo Flume is the only surviving monument to an irrigation system that consisted of 104 flumes and over 150 miles of canals; allowing farmers in Montezuma County to establish thriving agricultural communities.

Since the McElmo Creek Flume was listed on the Endangered Places List in 2011 local preservationists have developed strong working relationships with the Montezuma County Commissioners and the Montezuma Valley Irrigation Company. They have worked with those groups, as well as the State Historical Fund, the Colorado Department of Transportation and others to undertake and complete a series of projects related to the Flume. In recent months, repairs to the foundation of the Flume have been completed; and the new stop and pullout on the Trail of the Ancients Scenic Byway is nearing completion and will provide interpretive signage, including a panel on the historic preservation process, and a viewing platform.

It is now time for the final phase of work on the McElmo Creek Flume. The proposed grant application to the State Historical Fund will include repair and replacement (like-kind) of wood components of the trough that the water ran through. The completion of this critical stage of the project will allow visitors and locals to see and understand the complex water system, as well as seeing the impact of historic preservation and the State Historical Fund.

Equally important is the affect completion of this project will have on the local community, and the Colorado water community. This project already has forged a strong working relationship between preservationists and the Montezuma County Commissioners, and has contributed to the County's interest in establishing a historic preservation board. Completion of the project also will be a shining example to the Colorado water conservancy and irrigation community that historic preservation can educate the public on the importance of Colorado water and irrigation systems; as well as providing a potential partner for the rehabilitation and interpretation of other water resources. While development of this relationship will be a long-term effort, completion of the McElmo Creek Flume is an important step in the right direction.

For all these reasons, Colorado Preservation Inc. strongly encouraged favorable review of this project and the grant application for the Rehabilitation of McElmo Creek Flume Wooden Superstructure. After five years of continuous effort and work, it is imperative that SHF and the preservation community support this critical final step.

Respectfully,

Jennifer Orrigo-Charles  
Interim Executive Director

# STATE OF COLORADO

## DEPARTMENT OF TRANSPORTATION

### TRAFFIC AND SAFETY UNIT

#### REGION 5

3803 N. Main Avenue, Suite 100

Durango, CO 81301

(970) 385-8360

Fax (970) 385-8361



March 11, 2016

To: State Historical Fund  
History Colorado Center  
1200 Broadway  
Denver, CO 80203

Re: CDOT approval for a Grant to Repair McElmo Flume -  
Rehabilitation of McElmo Creek Flume Wooden Structure

CDOT has reviewed your proposal for stabilization and repair of the McElmo Flume wooden trough at the Flume site on US 160 located at MM 43.1, south side at the existing pull off.

CDOT has been fully in favor of the preservation of this structure for future generations to view since its inception in 2010. The State has permitted the construction of a very tourist-attractive pullout, overlook and kiosk information area within its right of way, which is under construction now.

We understand the Montezuma Board of County Commissioners has been briefed on the concept and that they are also in favor of the Flume stabilization to help educate the travelling public about the historic early efforts to transport water across the mesas and drainages of this part of the County. The preserved flume across McElmo Creek is the key feature that the public will see, when stopping into this attractive rest area.

The McElmo Flume, which has a portion of the flume within the state right of way, has our approval to be rebuilt and stabilized in a manner that best preserves the historical workmanship of the early settlers inherent in this important structure.

Please let us know if this department can assist with this grant in any way.

Thank you.

Sincerely,

Rick Routh, PE

Colorado Dept of Transportation – R5 Traffic Dept  
3803 North Main Ave Ste 100  
Durango, CO 81301  
970 385-3629



# Trail of the Ancients National Scenic Byway

P.O. Box 759, Cortez CO 81321 (970) 739-3158

March 14, 2014

State Historic Fund  
History Colorado Center  
1200 Broadway  
Denver, CO 80203

Dear Sir/Madame:

Trail of the Ancients National Scenic Byway (TOTA) received a Federal Highways grant in 2012 to develop a wayside pull-out overlooking the historic McElmo Flume. We are currently constructing the parking lot, walkway and overlook at the new byway stop, and we anticipate completing the project by midyear. Our community has welcomed this fascinating testimonial to the history of irrigation and its influence on local development, and a wide variety of jurisdictions, community groups, government agencies and local historians have contributed information and perspective to development of the descriptive panels at the overlook.

The Federal Highways grant guidelines do not allow the funding to be used for preservation of the flume, yet without protection the public will not have anything to look at! The State Historic Fund has already given strong support to the assessment and concrete stabilization components, and we ask that you help us complete the project by funding stabilization of the wooden part of the flume. We are so close to launching this unique addition to Trail of the Ancients and appreciate your consideration of our grant request.

Please do not hesitate to contact me with any questions you may have.

Sincerely yours,

Susan E. Thomas  
Byway Coordinator



March 21, 2016

State Historical Fund  
History Colorado Center  
1200 Broadway  
Denver, CO 80203

RE: Rehabilitation of McElmo Creek Flume Wooden Superstructure.

The Cortez Historic Preservation Board is writing to support the grant request from Montezuma County to finish the rehabilitation of the McElmo Creek Flume. This flume is the last of the 104 flumes which originally carried water as part of the Montezuma Valley Irrigation Company's system to develop ranching and farming in the Montezuma Valley in the late 1890s.

The Flume has suffered damage from flooding and wind events in the years since it was abandoned. Many concerned area residents have watched it deteriorate as they drive by on Highway 160 since it is visible from the road. Previous SHF grants have funded assessments of the Flume's substructure and wooden superstructure, and in February of 2016, the repairs to the foundation were completed. Now the County is ready to move forward with rehabilitating the wooden trough of this National Register listed historic structure.

The Board believes that preserving this last piece of the water history of Montezuma Valley is an important undertaking. Once it is rehabilitated, and with the development of the interpretive pullout adjacent to the Flume which will be completed this spring, visitors, residents, and school children will learn more about the history of agriculture and ranching in the County.

In 1996, the Flume was identified as a future stop along the Trail of the Ancients Byway to extend the story of prehistoric water use into the 19<sup>th</sup> and 20<sup>th</sup> centuries. Funding from the Federal Byways Program has been awarded to build the formal pullout, so it is imperative that the County finish the rehabilitation of the Flume so that it can enhance the interpretation of our water history in Montezuma County in the 19<sup>th</sup> and 20<sup>th</sup> centuries.

The Board encourages the State Historical Fund to award this grant so that work can begin repairing the wooden staves, stringers and framing bents on the wooden trough of the Flume. Without the funding to conduct this work soon, the Flume remains in danger of further damage. We do not want that to happen.

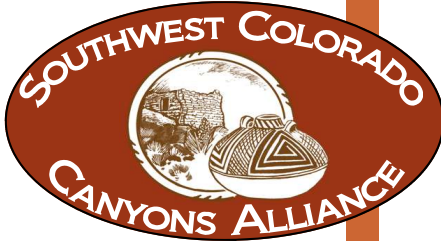
Sincerely,

/signed/

Linda A. Towle  
Chairman



March 25, 2016



**SUPPORTING  
CANYONS OF THE  
ANCIENTS NATIONAL  
MONUMENT AND THE  
ANASAZI HERITAGE  
CENTER**

**BOARD OF DIRECTORS:  
BOB BERNHART  
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SENSA WOLCOTT**

**EXECUTIVE DIRECTOR:  
DIANE MCBRIDE**

**27501 Hwy. 184  
DOLORES, CO 81323**

**970-882-5628  
INFO@SWCOCANYONS.ORG  
WWW.SWCOCANYONS.ORG**

State Historic Fund  
History Colorado Center  
1200 Broadway  
Denver, CO 80203

Re: Rehabilitation of McElmo Creek Flume Wooden Superstructure

Southwest Colorado Canyons Alliance is proud to support the rehabilitation of the McElmo Creek Flume. As a partnering organization of Canyons of the Ancients National Monument and the Anasazi Heritage Center, we greatly respect and celebrate the importance of revitalizing and maintaining elements of both ancient and more recent history of those who call the exceptional landscape of Southwest Colorado their home.

Water has always been a key component for survival and livelihood in the Southwest, from the people who, more than a thousand years ago, backed up soil in order to maintain meager moisture for their corn to today when, once again, lack of moisture at the appropriate times threatens farming, ranching, and those who make their livelihood on rivers.

Water and irrigation have played integral roles in the history of Montezuma County. Without the forethought of early European-American settlers to initiate the Montezuma Valley Irrigation system, no modern settlement of the area would have been possible. The McElmo Creek Flume is one of the last vestiges of this time and represents the snapshot in history of struggles that pioneers to the area endured to "tame the West."

The new Trail of the Ancients Byway signage will highlight the flume and its significance in local history via interpretive signage. Reparation of the flume will inspire pride in local residents and appreciation in visitors to the area to understand this important legacy left by those who came before.

Thank you for considering funding *The McElmo Creek Flume Wooden Superstructure*. It is a project worthy of funding for its value in the history of Montezuma County.

In gratitude,

A handwritten signature in dark ink that reads "Diane McBride". The signature is fluid and cursive, with the first name "Diane" and last name "McBride" clearly legible.

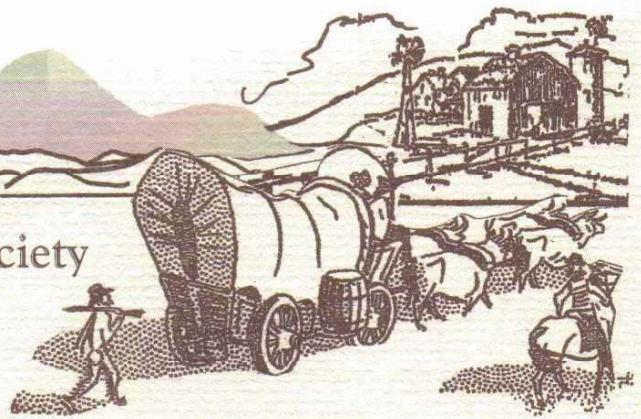
Diane McBride  
Executive Director





# Montezuma County Historical Society

P.O. Box 218  
Cortez, Colorado 81321



March 22, 2016

State Historical Fund  
History Colorado Center  
1200 Broadway  
Denver CO 80203

RE: Rehabilitation of McElmo Creek Flume Wooden Superstructure

The Montezuma County Historical Society is seeking your support for the County of Montezuma's grant request to complete the rehabilitation of the McElmo Creek Flume, which is listed on the National Register of Historic Places.

As the final stage of rehabilitation, we are asking the SHF to provide funds to support and repair the most visible portion of the wooden trough that has lain in disrepair along Highway 160 east of Cortez.

Area residents of longstanding remember a network of 104 of such flumes that brought water to the Montezuma Valley to support the farmers and ranchers that enabled this area to thrive.

When the wooden trough is completed, it will serve as an educational roadside exhibit so all may learn of the importance of water to a desert-like environment.

Several years ago the McElmo Creek Flume was listed as an "Endangered Place" in Montezuma County. Over the last three years historic preservationists and generous donors have allowed the understructure to be repaired and strengthened, the final work completed this winter despite freezes and major snowfall.

When the wooden trough is rehabilitated, and when adults and school children can see how water was delivered in the 19th and 20th centuries, the McElmo Creek Flume can be listed as "SAVED"!!

We thank you for your continuing interest and previous assistance on this project.

Sincerely,

David C. Everett, Chairman  
Montezuma County Historical Society