



**COLORADO**

**Colorado Water  
Conservation Board**

Department of Natural Resources

1313 Sherman Street, Room 721  
Denver, CO 80203

February 2, 2015

Coal Creek Watershed Coalition  
Attn: Zach Vaughter, Executive Director  
P.O. Box 39  
Crested butte, CO 81224-0039

**RE: Notice to Proceed – WSRA Grant – McCormick Ditch Restoration Project in  
the Gunnison River Basin**

Dear Zach:

This letter is to inform you that the purchase order request for the WSRA grant to assist in the McCormick Ditch Restoration Project in the Gunnison River Basin was approved on February 2, 2015.

With the executed purchase order, you are now able to proceed with the project and begin invoicing the State of Colorado for costs incurred through April 30, 2015. Please provide the project name, contract or purchase order number, and basin when corresponding with or invoicing the State of Colorado for your project. Upon receipt of your invoice(s), the State of Colorado will provide payment no later than 45 days after review and signed approval by the project manager. I wish you much success in your project.

Sincerely,

/s/

***Craig Godbout***  
***Program Manager***  
***Colorado Water Conservation Board***  
***Water Supply Planning Section***  
*1313 Sherman St, Rm. 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)

Attachments





STATE OF COLORADO  
Department of Natural Resources

<b>ORDER</b>		<b>** IMPORTANT **</b>				
Number: PO PDAA 20150000000000000045		The order number and line number must appear on all invoices, packing slips, cartons and correspondence				
Date: 02/02/15						
Description: PDAA 2500 McCormick Ditch Restoration in the Gunn Basin		<b>BILL TO</b> COLORADO WATER BOARD CONSERVATION 1313 SHERMAN STREET, ROOM 718 DENVER, CO 80203				
<b>BUYER</b>		<b>SHIP TO</b>				
Buyer:		COLORADO WATER BOARD CONSERVATION				
Email:		1313 SHERMAN STREET, ROOM 718 DENVER, CO 80203				
<b>VENDOR</b>		<b>SHIPPING INSTRUCTIONS</b>				
COAL CREEK WATERSHED COALITION		Delivery/Install Date:				
PO BOX 39		F.O.B: FOB Dest, Freight Allowed				
CRESTED BUTTE, CO 81224-0039		<b>VENDOR INSTRUCTIONS:</b>				
Contact: .						
Phone: .						
<b>Line Item</b>	<b>Commodity/Item Code</b>	<b>UOM</b>	<b>QTY</b>	<b>Unit Cost</b>	<b>Total Cost</b>	<b>MSDS Req.</b>
1	G1000		0	0.00	\$21,346.00	<input type="checkbox"/>
Description: PDAA 2500 McCormick Ditch Restoration in the Gunn Basin						
Start Date: 02/02/15		End Date: 04/30/15				
<b>TERMS AND CONDITIONS</b>						
<a href="https://www.colorado.gov/osc/purchase-order-terms-conditions">https://www.colorado.gov/osc/purchase-order-terms-conditions</a>						
<b>DOCUMENT TOTAL = \$21,346.00</b>						

## **Exhibit A**

### **SCOPE OF WORK**

**WATER ACTIVITY NAME** – McCormick Ditch Reconstruction

**GRANT RECIPIENT** – Coal Creek Watershed Coalition

**FUNDING SOURCE** – Water Supply Reserve Account (WSRA), Gunnison Basin

#### **GENERAL DESCRIPTION OF PROJECT**

The McCormick Ditch is located at the lower end of Coal Creek, within the Town of Crested Butte. The current diversion is a gravel push-up dam which requires frequent maintenance resulting in damage to the ecological resources of the creek and cost to irrigators. This diversion reconstruction project is a partnership between an environmental group, a watershed group, and the Town of Crested Butte. We have discussed the project with the private irrigator and obtained his approval. The project will replace the push up dam with a permanent structure which will reconstruct a morphologically balanced channel. This project will improve an existing water supply with pre-1922 water rights by making diversions more reliable and efficient. It will also improve instream water quality by reducing sediment mobilized by annual maintenance, and it will restore riparian habitat along Coal Creek.

The McCormick Ditch serves the Town of Crested Butte and the Verzuh Ranch with municipal parks and agricultural irrigation water drawn from Coal Creek. The water rights associated with the Ditch date to 1906 and 1961 adjudications.

The current diversion structure for the McCormick Ditch is a gravel push-up dam which dominates Coal Creek at 4<sup>th</sup> and Teocalli Avenue in the Town of Crested Butte. High spring flows necessitate frequent maintenance on the dam which involves heavy equipment in the stream bed, dredging up sediment and damaging the riparian corridor just upstream of the Butte Avenue Bridge and Coal Creek's confluence with the Slate River.

The Project will replace the existing push-up dam with a permanent diversion structure which will be more efficient, not require yearly maintenance and will better conform to the natural contours of Coal Creek. Riparian habitat will be rehabilitated with the installation of toe logs and willows.

#### **TASKS**

Demolition of the current structure and construction of the new diversion is scheduled to take place in the low water month of October 2014. Total time for construction is expected to be one week, and will be dependent upon the schedule of the Town of Crested Butte and Crane Associates. Following the completion of construction, willows will be planted with the help of local volunteers. A full report to grantors will be available upon completion.

**Task #1 Demolish and remove existing diversion structure:** The current push-up gravel dam will be demolished. Material remaining in the stream from deconstruction of the dam will be re-graded and converted into part of a natural gravel bar and floodplain.

**Task #2 Install Boulders for new diversion structure:** The new diversion structure will be constructed from 2 to 3' diameter boulders installed on top of a 12" bed of gravel wrapped in filter fabric. A bed of willow cuttings will be installed between the bottom of the filter fabric and the gravel bed. The new diversion channel will be narrowed to approximately 10' wide and is designed for 10 cfs of flow.

**Task #3 Install Toe logs:** Toe logs will be installed along the toe of the right channel and will provide erosion control and habitat features.

**Task #4 Cut and plant willows:** Willow cuttings and other native riparian vegetation will be planted throughout the newly created floodplain. Additional willow cuttings will be planted to repair all staging areas.

## **REPORTING AND FINAL DELIVERABLE**

The Coal Creek Watershed Coalition (CCWC) will provide a full report to each grantor upon completion of the project. The report will document project work with a brief engineering report, before/during/after photographs, and a discussion of any changes to the above statement of work responsive to circumstances on the ground. The CCWC is also happy to present the report in person to grantor meetings.

## **PROJECT COST ESTIMATE**

The Colorado Water Conservation Board approved a grant for \$21,346.00 to be used in conjunction with a grant from the Upper Gunnison River Waters Conservancy District in the amount of \$23,345.00. The total project cost is estimated to be \$63,841.00.

#### VI. McCormick Ditch Diversion Project Budget

			UNIT	EST	SUB TOT	
ITEM DESCRIPTION	UNIT	QTY	COST	COST	COST	
<b>Mobilization/Demobilization</b>						
Equipment Transport (12)	LS	1	\$1,000	\$1,000		
					\$1,000	
<b>Diversion Structure</b>						
Demo and remove ex structure	CY	150	\$5	\$750		
Excavation w/rock hammer	CY	200	\$15	\$3,000		
3' boulders delivered & placed	CY	170	\$100	\$17,000		
1 1/2" gravel rock bed installed	CY	60	\$20	\$1,200		
Toe logs installed	LF	200	\$20	\$4,000		
Grout boulders	CY	20	\$250	\$5,000		
Willows cut and planted	LF	200	\$10	\$2,000		
Water control	LS	1	\$2,000	\$2,000		
					\$34,950	
<b>Labor Tasks (In Kind Contributions)</b>						<b>Operator</b>
Best Management Practices- repair and staging				\$500		Town of CB
Demolish and Remove Existing Structure				\$750		Town of CB
3' Boulder Placement				\$8,500		Town of CB
1 1/2" Gravel Rock Installation				\$600		Town of CB
Toe Logs Installation				\$2,000		Town of CB
Water Control				\$2,000		Town of CB
Best Management Practices- willows cut and planted				\$1,800		Coal Creek Watershed Coalition (CCWC)
To Be Determined				\$1,000		Bill Lacy
<b>SUBTOTAL LABOR</b>					\$17,150	
<b>SUBTOTAL MATERIAL COSTS</b>					\$35,950	
<b>CONTINGENCY (15%)</b>					\$5,393	
<b>CONSTRUCTION SUBTOTAL (not incl. in kind labor)</b>					\$41,343	
<b>Project administration (13%)</b>					\$5,348	(\$4,192 to Crane Associates for construction oversight, \$1,183 to CCWC for project management)
<b>TOTAL MATERIAL COST + Administration</b>					\$46,691	(\$23,345 granted by the UGRWCD)
<b>In Kind Contributions</b>					\$17,150	
<b>TOTAL PROJECT COST</b>					\$63,841	

## SCHEDULE

Project Implementation scheduled upon 'notice to proceed' from the Colorado Water Conservation Board and will be completed by March 31, 2015. A full grant report will be made available to funder upon completion.

**Table 2: Project Schedule**

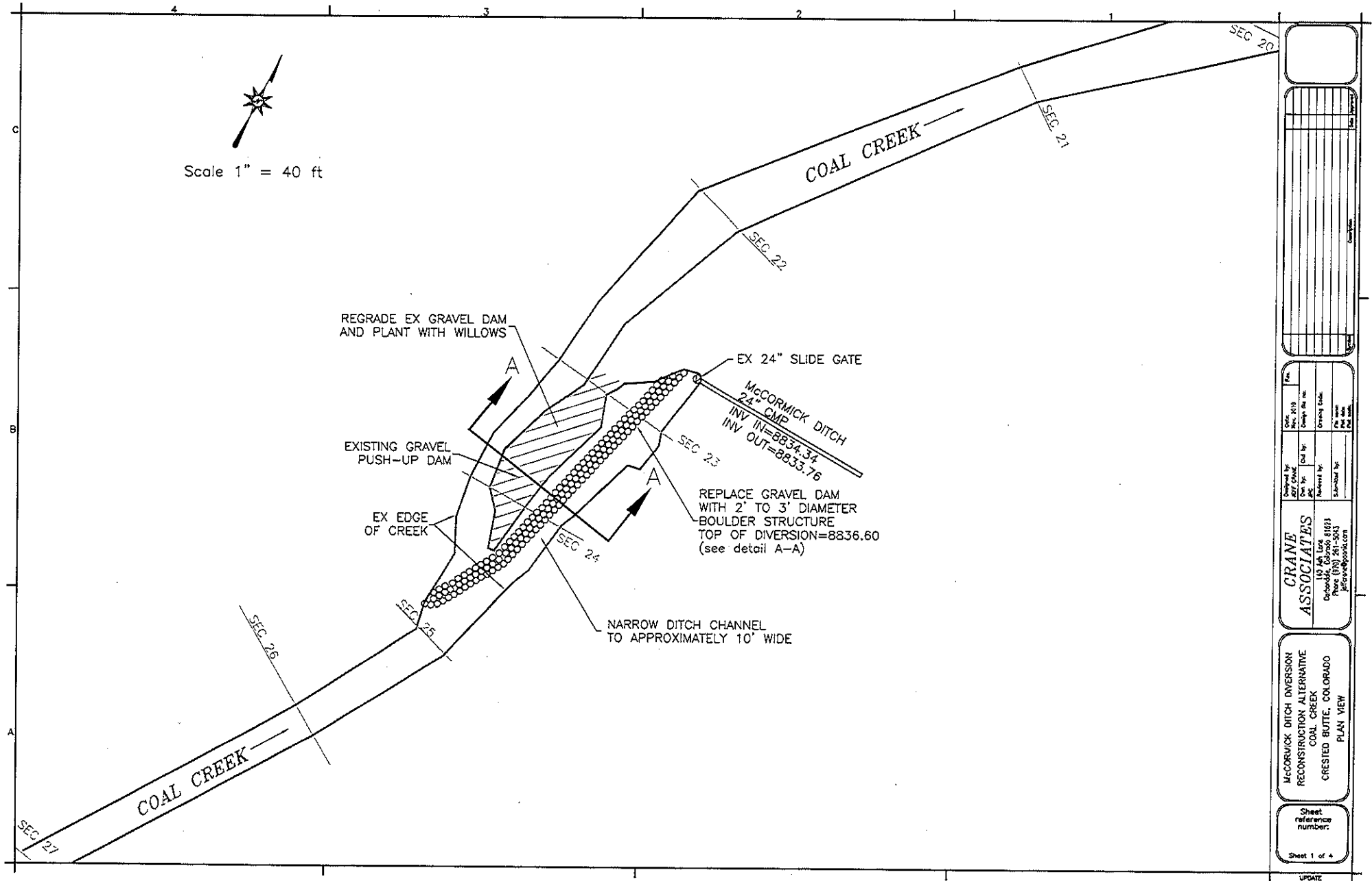
Task	Start Date	Finish Date
Construction	Notice to Proceed	3/31/2015
Final Project Close-out	Notice to Proceed	4/30/2015

## PAYMENT

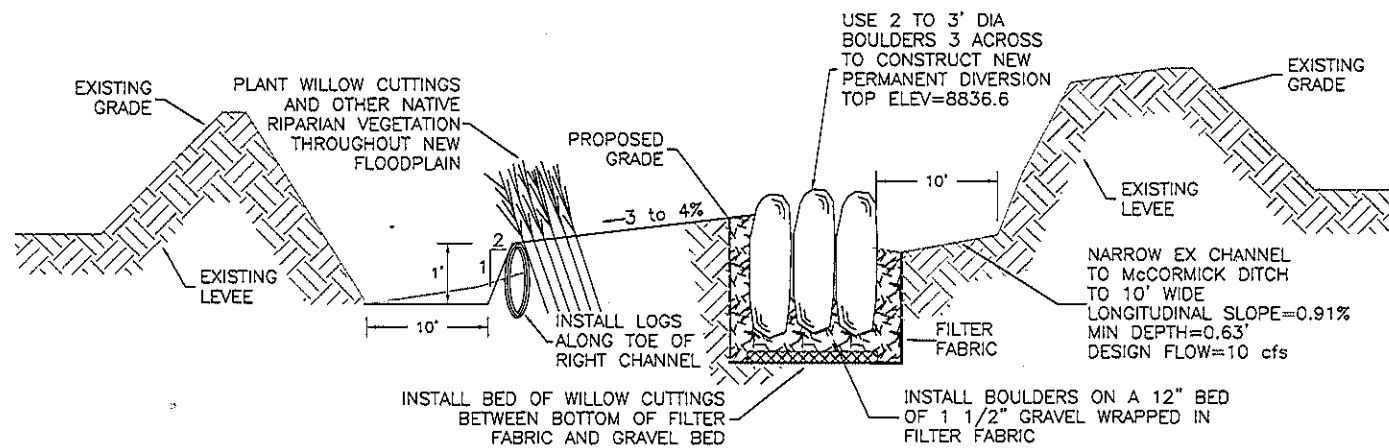
Payment will be made based on actual expenditures and invoicing by the applicant. Invoices from any other entity (i.e. subcontractors) cannot be processed by the State. The request for payment must include a description of the work accomplished by major task, and estimate of the percent completion for 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.

# Agenda Item 20(d): Coal Creek Watershed Coalition - McCormick Ditch Reconstruction



# Agenda Item 20(d): Coal Creek Watershed Coalition - McCormick Ditch Reconstruction



SECTION A-A

Horizontal Scale 1" = 10 ft  
Vertical Scale 1" = 2 ft

DATE: 10/10/2013		DESIGNER: J. CRANE	
DRAWN BY: J. CRANE		CHECKED BY: J. CRANE	
APPROVED BY: J. CRANE		DATE: 10/10/2013	
<b>CRANE ASSOCIATES</b> 1010 N. 1st St. Suite 8100 Colorado Springs, CO 80903 Phone (719) 591-5043 jcrane@craneassoc.com			
McCORMICK DITCH DIVERSION RECONSTRUCTION ALTERNATIVE COAL CREEK CRESTED BUTTE, COLORADO DETAILS			
Sheet reference number: Sheet 2 of 4			