COLORADO
Colorado Water Conservation Board
Department of Natural Resources

1313 Sherman Street, Room 718
Denver, CO 80203

October 21, 2016

Animas Consolidated Ditch Company
Attn: Ed Zink, Board Member
Attn: Carrie Lile, Engineering Consultant
P.O. Box 3777
Durango, Co 81302

RE: Notice to Proceed – WSRF Grant – **POGG1 2017-491 – 48 inch Culvert Replacement Project**

Dear Ed and Carrie,

This letter is to inform you that purchase order to assist in the above WSRF grant project has been approved. The email notice and attachments serve as your original contract documents.

With the executed purchase order you are now able to proceed with the project and invoice the State of Colorado for costs incurred through July 31, 2107. Please provide the project name, POGG1 number, and basin when corresponding with or invoicing for your project. Upon receipt of your invoice(s), the State of Colorado will provide payment no later than 30 days after review and signed approval of the project manager.

Please refer to the WSRF Criteria & Guidelines for reporting requirements for the six month progress report and final deliverable requirements in order to avoid a delay in payment.

If you have any questions or concerns regarding the project, please contact Craig Godbout, Project Manager at 303-866-3441 x3210 or at craig.godbout@state.co.us. You can contact me at 303-866-3441 ext. 3250 for invoicing and payment disbursement questions.

Thank you.

Sincerely,

//s//

Doriann Vigil
Program Assistant II
O 303-866-3441 ext. 3250
1313 Sherman Street, Rm. 719, Denver, CO 80203
Dori.vigil@state.co.us / cwcb.state.co.com

Attachments

STATE OF COLORADO
Department of Natural Resources

ORDER
Number: POGG1 PDAA 201700000491
Date: 10/21/16
Description:
PDAA 2500 WSRF 48 in Culvert Replacement Project in the SW
Effective Date: 10/24/16 Expiration Date: 07/31/17

BUYER
Buyer:
Email:

VENDOR
ANIMAS CONSOLIDATED DITCH COMPANY
PO BOX 3777
DURANGO, CO 81302-3777

Contact: .
Phone: .

**** IMPORTANT ****
The order number and line number must appear on all invoices, packing slips, cartons and correspondence

BILL TO
COLORADO WATER BOARD CONSERVATION
1313 SHERMAN STREET, ROOM 718
DENVER, CO 80203

SHIP TO
COLORADO WATER BOARD CONSERVATION
1313 SHERMAN STREET, ROOM 718
DENVER, CO 80203

SHIPPING INSTRUCTIONS
Delivery/Install Date:
F.O.B: FOB Dest, Freight Allowed
VENDOR INSTRUCTIONS:

Line Item	Commodity/Item Code	UOM	QTY	Unit Cost	Total Cost	MSDS Req.
1	G1000		0	0.00	$34,354.00	☐

Description: PDAA 2500 WSRF 48 in Culvert Replacement Project in the SW

Service From: 10/24/16 Service To: 07/31/17

TERMS AND CONDITIONS
https://www.colorado.gov/osc/purchase-order-terms-conditions

DOCUMENT TOTAL = $34,354.00

Scope of Work - EXHIBIT A

WATER ACTIVITY NAME – ACDC 48 inch Culvert Replacement Project

GRANT RECIPIENT – Animas Consolidated Ditch Company

FUNDING SOURCE – Basin Account Water Supply Reserve Account

INTRODUCTION AND BACKGROUND

The Animas Consolidated Ditch Company owns and operates the Animas Consolidated Ditch, which serves the west side of the Animas River Valley between Baker's Bride and Durango. The ditch company has been in operations for over 100 years and has a diversion water right of 91 cfs which provides irrigation and other water uses to roughly 3,000 acres.

An existing squash culvert, within the Animas Consolidated Ditch delivery system, is a corrugated metal pipe with a diameter of 4 feet. The squash culvert delivers 30 cubic feet per second of water to approximately 1,000 acres of irrigated land. This culvert is one of many within the delivery system. The 84 foot long squash culvert is failing; the bottom is being crushed upwards creating exposed, rough metal edges creating turbulent flow and trash traps. The project proposes replacing the existing culvert with a concrete culvert of similar diameter and length. The existing culvert is sandwiched between an old historic home and County Road 203. It is a difficult location and therefore requires significantly more resources for construction than a typical culvert replacement. Due to the close proximately of the home and road, pre-construction surveying and engineering design are necessary.

OBJECTIVES

The project objectives are to design, construct and replace the 84 foot long 48 inch squash culvert. The site will be surveyed and an engineered design will be produced. A construction company familiar with this type of installation work will be contracted. The construction will be overseen by the design engineer to ensure the project is completed as designed.

TASKS

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

TASK 1 – Surveying and Site Assessment

Description of Task

A cursory survey was conducted to determine the gradient of the existing squash culvert. This survey provided adequate data to NRCS to determine the required diameter (4 feet) to delivery 30 cubic feet per second. Due to the location of the culvert, close proximately to a home and county road, cross sectional surveying of the project area is necessary. The design engineer will conduct a site assessment and work with the surveyor to determine the locations of the necessary cross sections to design a replacement culvert.

Method/Procedure

Common engineering and surveying principles and practices will be employed to determine the locations of the cross sections. All points will be established on the Colorado State Plane Grid system South Zone 503, NAD 1983, NAVD 1988.

Deliverable
The deliverable will be a site layout of cross section locations with latitude and longitude values for applicable points.

TASK 2 – Culvert Design
Description of Task
The second task will be for a professional engineer to design the replacement culvert. The design engineer will utilized the gradient survey data, cross section survey data, preliminary specifications generated by NRCS and any other applicable information.

Method/Procedure
The design engineer will employ common engineering principles and practices to design the new squash culvert. The design will be reviewed and approved by the Animas Consolidated Ditch Company representatives.

Deliverable
The major deliverable will be an engineered design to install a new squash culvert along with a construction packet to be used by the contractors.

TASK 3 – Construction
Description of Task
The third task will be for construction of the new culvert. This work will at a minimum including: excavation of the site, plugging of existing culvert, installation of the new culvert, repair of ditch before and after the culvert to create smooth transitions, and landscaping of the distributed area.

Method/Procedure
The contractors will employ all required measures of safety, applicable county codes, and all other requirements during their period of work. The work is scheduled to begin after the 2016 irrigation season.

Deliverable
The major deliverable will be the installation of a new squash culvert.

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 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, summaries of meetings and engineering reports/designs.

Animas Consolidated Ditch Company

Attachment to Scope of Work

48 inch Culvert Replacement Project

			WSRA Grant				
Task	Description	Total Cost	Technical	Construction	Other Direct Costs	Total WSRA Grant	Total Matching
1	Surveying and Site Assessment	$1,500	$1,500	$0	$0	$750	$750
2	Engineered Design	$4,980	$4,980	$0	$0	$2,490	$2,490
3	Construction	$62,227	$12,445	$49,782	$5,000	$31,114	$31,114
	Subtotals	**$68,707**	**$18,925**	**$49,782**	**$5,000**	**$34,354**	**$34,354**
	Total						**$68,707**

		Technical					
		Principal Engineer Services		Surveyor Professional Sevices		Construction Services	
	Labor Distribution	$120	Subtotal	$100	Subtotal	Subtotal	Subtotal
Task 1	Surveying and Site Assessment	5	$600	15	$1,500	$0	$2,100
Task 2	Engineered Design	27	$3,240	0	$0	$0	$3,240
Task 3	Construction	9.5	$1,140	0	$0	$62,227	$63,367
		Total	$4,980	Total	$1,500	Total	$68,707

Total	**$68,707**

* The allocation of costs between each component may change depending upon the actual effort for each component.
* Billing rates will remain fixed or decreased.
* Contractors bid as one job not by individual tasks.

TASK COMPLETION SCHEDULE

Tentative Task Completion Schedule	Start Date	Completion Date
Task 1 - Surveying and Site Assesment	P.O. Issued Date	Fall of 2016
Task 2 - Engineering Design	P.O. Issued Date	Fall of 2016
Task 3 - Construction	Fall of 2016	May-2017
Final Report	May 2017	May-2017 -July 2017