COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Last Updated: July 2019

Colorado Water Conservation Board

Water Plan Grant Application

Instructions

To receive funding for a Water Plan Grant, applicant must demonstrate how the project, activity, or process (collectively referred to as "project") funded by the CWCB will help meet the measurable objectives and critical actions in the Water Plan. Grant guidelines are available on the CWCB website.

If you have questions, please contact CWCB at (303) 866-3441 or email the following staff to assist you with applications in the following areas:

Water Storage Projects	Anna.Mauss@state.co.us
Conservation, Land Use Planning	Kevin.Reidy@state.co.us
Engagement & Innovation Activities	Ben.Wade@state.co.us
Agricultural Projects	Alexander.Funk@state.co.us
Environmental & Recreation Projects	Chris.Sturm@state.co.us

FINAL SUBMISSION: Submit all application materials in one email to *waterplan.grants@state.co.us*
in the original file formats [Application (word); Statement of Work (word); Budget/Schedule (excel)]. Please do not combine documents. In the subject line, please include the funding category and name of the project.

Water Project Summary

Name of Applicant	Cedar Mesa Ditch Company
Name of Water Project	Assistance with Piping Lower Cedar Mesa Ditch

CWP Grant Request Amount	$70,000
Other Funding Sources WSRF Grant	$45,000 (pending)
Other Funding Sources CWCB Loan	$1,359,460
Other Funding Sources NRCS Grants	$1,045,553
Applicant Funding Contribution	$300,000
Total Project Cost	$1,365,000

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Applicant & Grantee Information
Name of Grantee(s) Cedar Mesa Ditch Company
Mailing Address PO Box 1118, Cedaredge, CO 81413
FEIN 84-0873324
Organization Contact Erik Fritchman
Position/Title President
Email erikfritchman@yahoo.com
Phone 970 640 2925
Grant Management Contact Annie Holron
Position/Title Board Member
Email
Phone
Name of Applicant (if different than grantee)
Mailing Address
Position/Title
Email annieholton2@gmail.com
Phone 970 485 0905

Description of Grantee/Applicant
Provide a brief description of the grantee's organization (100 words or less).
Cedar Mesa Ditch Company was organized October 13, 1898 as a non-profit water conveyance company. From the Surface Creek head-gate, it is approximately 12 miles to the end of the ditch. It has 403 shares of stock owned by 50 shareholders who raise cattle, hay, peaches, apples, plums, apricots, hemp and grapes. The company owns four water rights as follows: 1) September 1894, Surface Creek #36, 10 cfs.; 2) September 1894, Surface Creek #A32, 16 cfs.; 3) January 1999, Surface Creek #98CW30, 24 cfs.; 4) Aug. 1936, J-52, 2 cfs. The shareholders have numerous water rights in some 40 reservoirs on the Grand Mesa. In an average year, the ditch conveys about 3000 acre-feet to irrigate approximately 1043 acres of land. Piping the lower ~3 miles of this ditch is expected to recover between 250 and 500 acre-feet annually.

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Type of Eligible Entity (check one)	
	Public (Government): Municipalities, enterprises, counties, and State of Colorado agencies. Federal agencies are encouraged to work with local entities. 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.
XX	**Private Incorporated:** Mutual ditch companies, homeowners associations, corporations.
	Private Individuals, Partnerships, and Sole Proprietors: Private parties may be eligible for funding.
	Non-governmental organizations (NGO): Organization that is not part of the government and is non-profit in nature.
	Covered Entity: As defined in Section 37-60-126 Colorado Revised Statutes.

Type of Water Project (check all that apply)	
	Study
XX	Construction
XX	Identified Projects and Processes (IPP) see Exhibit D, project 22.,Cunnison Basin Proposed Water Projects (2015 Gunnison Basin Water Plan)
	Other

Category of Water Project (check the primary category that applies and include relevant tasks)		
	Water Storage - Projects that facilitate the development of additional storage, artificial aquifer recharge, and dredging existing reservoirs to restore the reservoirs' full decreed capacity and Multi-beneficial projects and those projects identified in basin implementation plans to address the water supply and demand gap.. *Applicable Exhibit A Task(s):*	
	Conservation and Land Use Planning - Activities and projects that implement long-term strategies for conservation, land use, and drought planning. *Applicable Exhibit A Task(s):*	
	Engagement & Innovation - Activities and projects that support water education, outreach, and innovation efforts. Please fill out the Supplemental Application on the website. *Applicable Exhibit A Task(s):*	
XX	Agricultural - Projects that provide technical assistance and improve agricultural efficiency. *Applicable Exhibit A Task(s):*	
	Environmental & Recreation - Projects that promote watershed health, environmental health, and recreation. *Applicable Exhibit A Task(s):*	
XX	Other	Explain: Water Quality – reducing salinity and selenium

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Location of Water Project			
Please provide the general county and coordinates of the proposed project below in **decimal degrees**. The Applicant shall also provide, in Exhibit C, a site map if applicable.			
County/Counties	Delta		
Latitude	38.890605	south to	38.849604
Longitude	-107.878089		-107.896500

Water Project Overview

Please provide a summary of the proposed water project (200 words or less). Include a description of the project and what the CWP Grant funding will be used for specifically (e.g., studies, permitting process, construction). Provide a description of the water supply source to be utilized or the water body affected by the project, where applicable. Include details such as acres under irrigation, types of crops irrigated, number of residential and commercial taps, length of ditch improvements, length of pipe installed, and area of habitat improvements, where applicable. If this project addresses multiple purposes or spans multiple basins, please explain.
The Applicant shall also provide, in Exhibit A, a detailed Statement of Work, Budget, Other Funding Sources/Amounts and Schedule.

This application is for assistance with **construction** of the Lower Cedar Mesa Ditch pipeline. Specifically, this request is for funds to reduce the shortfall between what NRCS cost estimates and those of the company engineer.

The pipeline will be constructed in the existing ditch right-of-way. No addition land purchases or easements are required. Feasibility studies and engineering design plans and are complete.

Cedar Mesa Ditch is supplied from Surface Creek which, in turn, is fed by numerous reservoirs on the Grand Mesa. The 12-mile ditch supplies irrigation water to 1043 acres through 37 head-gates. It serves 58 shareholders who raise cattle, hay, peaches, apples, plums, apricots and grapes. The lower part of the ditch runs thought Machos Shale where seepage is the greatest. The BOR estimates 900 ton/yr salt is contributed to the Colorado River from CMD. It is estimated that piping the lower 3.5 miles of the ditch will recover 60% of the shrink. This recovery will significantly reduce salt and selenium leaching from the ditch through the Mancos Shale. Significantly, seepage form CMD feeds into Fruitgrower's Reservoir, the second National Water Quality location identified in Colorado for which Best Management Plans are being developed.

Most irrigation water rights in the Surface Creek Valley belong to private, non-profit companies. Irrigation water is not tied to land and may be leased or sold to other users. Typical costs for leasing range from $25 - $150 an acre-foot, depending on availability (weather). During the 2018 drought year, water was being leased for more than $200 an acre-foot. Piping this portion of the ditch would recover $6,000 to $12,000 worth of water. In a drought year like 2018, that value would approach $100,000 if the water were available.

The project is phased to start in 2020 and be completed in 3 years. Each year approximately 33% of the construction will be completed. Each year's plans and deliverables are detailed in Exhibit A.

This project addresses agricultural efficiency and the water supply and demand gap.

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Measurable Results		
To catalog measurable results achieved with the CWP Grant funds, please provide any of the following values as applicable:		
	New Storage Created (acre-feet)	
250-500 acre-ft	New Annual Water Supplies Developed or Conserved (acre-feet), Consumptive or Nonconsumptive	
	Existing Storage Preserved or Enhanced (acre-feet)	
	Length of Stream Restored or Protected (linear feet)	
$12500-$25000/yr up to $100,000 during drought years	Efficiency Savings (indicate acre-feet/year OR dollars/year)	
	Area of Restored or Preserved Habitat (acres)	
	Quantity of Water Shared through Alternative Transfer Mechanisms	
	Number of Coloradans Impacted by Incorporating Water-Saving Actions into Land Use Planning	
	Number of Coloradans Impacted by Engagement Activity	
	Other	Explain:

Water Project Justification
Provide a description of how this water project supports the goals of Colorado's Water Plan, the most recent Statewide Water Supply Initiative, and the applicable Roundtable Basin Implementation Plan and Education Action Plan. The Applicant is required to reference specific needs, goals, themes, or Identified Projects and Processes (IPPs), including citations (e.g. document, chapters, sections, or page numbers). The proposed water project shall be evaluated based upon how well the proposal conforms to Colorado's Water Plan Framework for State of Colorado Support for a Water Project (CWP, Section 9.4, pp. 9-43 to 9-44;)
Improvements to Cedar Mesa Ditch are listed as Proposed Project 22 on Tier 1 of the Gunnison Basin Water Plan. This project addresses two aspects of Water Storage and Supply. First: "Improve agricultural water supplies to reduce shortages" The 2010 Statewide Water Supply Initiative reported an annual shortage for District 40 of 75,128 acre-feet by 2050. That is approximately a 30% shortfall for the District. An update of the Statewide Water Supply Initiative, currently underway, is expected to increase that value. The proposed piping project is expected to recover approximately half the water need to address the gap among its users. This project is anticipatory to IPP 91 of the Gunnison Basin Implementation Plan (2015, p.105 Second: "Discourage the conversion of productive agricultural land to all other uses within the context of property rights." More frequently, there are years when less than average water is available causing reduced productivity and/or increasing expense (water leasing). Increasingly, shortages result in the conversion of agricultural land to other uses. The Cedar Mesa Ditch Board has heard more than one producer say that if he can't get sufficient water, he'll subdivide and sell his land. By reducing water shortages, the piping project address the above second goal of the Gunnison Basin Implementation plan:

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Related Studies

Please provide a list of any related studies, including if the water project is complementary to or assists in the implementation of other CWCB programs.

Feasibility Study and Loan and Grand Application Report for Cedar Mesa Ditch Company, McDermith and Schuster, 1975

Cedar Mesa and Lone Pine Ditches – 2017 Technical Assistance Report – JUB Engineers Inc

Statewide Water Supply Initiative – 2010 Appendix I, Technical Memorandum State of Colorado Current and 2050 Agricultural Demands, Appendix A, Western Slope Agricultural Demands, Table 1 and Figure 2, Water District 40 demands.

Gunnison Basin Implementation Plan, 2015, Gunnison Basin Roundtable

Annual Report to the Water Quality Control Commission and Colorado Legislature, 2018

Feasibility of Piping Lower Cedar mesa Ditch Study, 2019, Submitted with CWCB loan application.

Previous CWCB Grants, Loans or Other Funding

List all previous or current CWCB grants (including WSRF) awarded to both the Applicant and Grantee. Include: 1) Applicant name; 2) Water activity name; 3) Approving RT(s); 4) CWCB board meeting date; 5) Contract number or purchase order; 6) Percentage of other CWCB funding for your overall project.

A 1) Cedar Mesa Ditch Company; 2) Piping Lower Cedar Mesa Ditch; 3) $1,359,460, 1.55%, 30 yrs; 4) Jan 20,2020, 5) Loan No.CT2020-2680 ; 6) 4% pending (WSRF Grant, see below)

B) Cedar Mesa Ditch Company; 2) Piping Lower Cedar Mesa Ditch; 3) $54,000 4) Pending 5) TBD; 6) CWCB Loan for 100% of the project

C) 1) NRCS (EQUIP program grants) to Erik Fritchman, Edward Badding,and Robert Halley; 2) Piping Lower Cedar Mesa Ditch; 3) $1,045,553 total; 4) December, 2019; 5) TBD; 6) 78% of project.

Taxpayer Bill of Rights

The Taxpayer Bill of Rights (TABOR) may limit the amount of grant money an entity can receive. Please describe any relevant TABOR issues that may affect your application.

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Submittal Checklist	
	I acknowledge the Grantee will be able to contract with CWCB using the Standard Contract.
Exhibit A See attached and below	
	Statement of Work(1) See Exhibit A that follows
	Budget & Schedule(1) See Exhibit A that follows
	Engineer's statement of probable cost (projects over $100,000) NRCS Engineer's Estimate $1,072,275 Company's engineer's estimate (Robert Gallegos) $1,365,000
	Letters of Matching and/or Pending 3rd Party Commitments(1) Sent from my Verizon, Samsung Galaxy smartphone -------- Original message -------- From: "Mason - DNR, Peg" <peg.mason@state.co.us> Date: 1/20/20 10:38 AM (GMT-07:00) To: erikfritchman <erikfritchman@yahoo.com> Subject: APPROVED-CWCB Loan No.CT2020-2680 for the Lower Cedar Mesa Ditch Piping Project This email is to inform you that the CWCB Loan No.CT2020-2680 for the Lower Cedar Mesa Ditch Piping Project was approved and signed on, January 16, 2020. The total loan amount of $1,359,460.00 includes a 1% service fee. A copy of the contract documents are attached to this email. A hard copy of the contract has been placed in the mail for your records. The loan funds are now available. In order to issue a payment an invoice must be received. Please contact Matt Stearns at 303-866-3441 ext. 3257 regarding disbursements and any required documentation. **Please reference CWCB Contract Number: CT2020-2680 on your payment requests and invoices.** Please contact me if you have any contract questions or concerns. **Thank you,** **Peg Mason, Contracts Manager** **Colorado Water Conservation Board** **1313 Sherman St., Room 718, Denver, CO 80203** **303-866-3441 ext.3227** peg.mason@state.co.us
Exhibit C See attached	
	Map (if applicable)(1)
	Photos/Drawings/Reports
	Letters of Support (Optional)
	Certificate of Insurance (General, Auto, & Workers' Comp.) (2)
	Certificate of Good Standing with Colorado Secretary of State(2)
	W-9(2)
	Independent Contractor Form(2) (If applicant is individual, not company/organization)
Engagement & Innovation Grant Applicants ONLY	
	Engagement & Innovation Supplemental Application(1)

(1) Required with application.
(2) Required for contracting. While optional at the time of this application, submission can expedite contracting upon CWCB Board approval.

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Water Plan Grant - Exhibit A

Statement Of Work	
Date:	**1/15/2020**
Name of Grantee:	**Cedar Mesa Ditch Company**
Name of Water Project:	**Piping Lower Cedar mesa Ditch**
Funding Source:	**NRCS, CWCB Loan, CWCB grants**

Water Project Overview:

Brief description of project "Piping Lower Cedar Mesa Ditch"

This application is for a portion of the cost of materials and construction of the Lower Cedar Mesa Ditch pipeline. It includes the major purchases of pipe, concrete, and fill dirt in addition to smaller miscellaneous supplies and expendables. The budget also includes construction and installation costs of driveway and road crossings, inlet and outlet boxes, vents, flanges, and the cost of fusing h.d.p.e. pipe. A detailed accounting estimate is provided in the budget and schedule template.

The pipeline will be constructed in the existing ditch right-of-way. No addition land purchases or easements are required. Feasibility studies and engineering design plans and are complete.

Cedar Mesa Ditch is supplied from Surface Creek which, in turn, is fed by numerous reservoirs on the grand Mesa. The 12-mile ditch supplies irrigation water to 1043 acres through 37 head-gates. It serves 64 shareholders who raise cattle, hay, peaches, apples, plums, apricots and grapes. The lower part of the ditch runs thought Machos Shale where seepage is the greatest. It is estimated that piping the lower 3.5 miles of the ditch will recover 60% of the shrink. This recovery will significantly reduce salt and selenium leaching from the ditch through the Mancos Shale.

Most irrigation water rights in the Surface Creek Valley belong to private, non-profit companies. Irrigation water is not tied to land and may be leased or sold to other users. Typical costs for leasing range from $25 - $150 an acre-foot, depending on availability (weather). During this drought year (2018) water is being leased for $200 an acre-foot. Piping this portion of the ditch would recover $6,000 to $12,000 worth of water. In a drought year like 2018, that value would approach $100,000 if the water were available.

The project is phased to be completed in 3-4 years. Each year approximately 25- 35% of the construction will be completed.

Project Objectives:

The overall objective is to conserve water and improve water quality by piping the lower 3.5 miles of Cedar Mesa Ditch. These multiple objectives include:

A. Establishing buy-in from the membership
B. Securing funding
C. Completing final engineering based on detailed preliminary plans in hand.
D. Planning and open bid process (bid package, pre-bid meeting, bid acceptance, notifications)
E. Purchasing pipe and other equipment
F. Installation
G. Inspections and sign-off by engineer

Tasks
Task 1 – [Name]
Description of Task:
Using the preliminary engineering plans as a guide, the project has been broken down into 70 components that can be considered tasks. These tasks (components) and associated costs are listed in three pages that follow. The first page of the preliminary engineering design is included. The preliminary engineering design is available on request.

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Tasks

PRACTICE CODE - COMPONENT	Unit	Amount	Unit Cost	Proposed Payment Incentive	Protracts Payment Incentive	NOTES
587-Structure for Water Control: Concrete Turnout Structure	CuYd	20	1090.67	$ 21,813.40	$ 21,814.00	Overflow structure
587-Structure for Water Control: Concrete Turnout Structure	CuYd	30	1090.67	$ 32,720.10	$ 32,721.00	Intake structure
587-Structure for Water Control: Concrete Turnout Structure - Small	Ea		2715.38	$ -	$ -	6+16, 10+30, 15+54, 15+74, 156+50
587-Structure for Water Control: Concrete Turnout Structure	CuYd		1090.67	$ -	$ -	27+55
587-Structure for Water Control: Concrete Turnout Structure	CuYd		1090.67	$ -	$ -	48+10
587-Structure for Water Control: Concrete Turnout Structure	CuYd		1090.67	$ -	$ -	58+40
587-Structure for Water Control: Concrete Turnout Structure	CuYd		1090.67	$ -	$ -	74+33
587-Structure for Water Control: Concrete Turnout Structure	CuYd		1090.67	$ -	$ -	102+00
587-Structure for Water Control: Cleaning Screens	Lb		10.01	$ -	$ -	
587-Structure for Water Control: Steel Fabrication	Lb		3.14	$ -	$ -	
430-Irrigation Pipeline: PVC Pipe >= 10 inch	Lb		2.61	$ -	$ -	24" pipe
430-Irrigation Pipeline: PVC Pipe >= 10 inch	Lb		2.61	$ -	$ -	21" pipe 5380' 80psi
430-Irrigation Pipeline: PVC Pipe >= 10 inch	Lb	20291	2.61	$ 52,959.51	$ 52,960.00	1435' 18" 80psi, 40' 18" 100psi 142+85-157+20
430-Irrigation Pipeline: PVC Pipe >= 10 inch	Lb		2.61	$ -	$ -	18" hdpe
430-Irrigation Pipeline: PVC Pipe >= 10 inch	Lb	21357	2.61	$ 55,741.77	$ 55,742.00	2280' 15" 80psi, 40' 100psi 157+20-180+00
430-Irrigation Pipeline: PVC Pipe >= 10 inch	Lb	14669	2.61	$ 38,286.09	$ 38,287.00	1600' 15" 0+00-16+00
587-Structure for Water Control: Concrete Turnout Structure	CuYd		1090.67	$ -	$ -	117+80
587-Structure for Water Control: Concrete Turnout Structure	CuYd		1090.67	$ -	$ -	142+82
587-Structure for Water Control: Concrete Turnout Structure - Small	Ea	1	2715.38	$ 2,715.38	$ 2,716.00	156+50
587-Structure for Water Control: Concrete Turnout Structure	CuYd	4	1090.67	$ 4,362.68	$ 4,363.00	157+20
587-Structure for Water Control: Concrete Turnout Structure	CuYd	8	1090.67	$ 8,725.36	$ 8,726.00	174+86
Practice Code: Component	Unit_ Type		0	$ -	$ -	
587-Structure for Water Control: Steel Fabrication	Lb	808	3.14	$ 2,537.12	$ 2,538.00	covers & defkectors 120# @ 8.5 #/sqft
Practice Code: Component	Unit_ Type		0	$ -	$ -	50' 36", 20' 18", 350' 12"
			TOTAL	$219,861.41	$219,867.00	

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Tasks

PRACTICE CODE - COMPONENT	Unit	Amount	Unit Cost	Proposed Payment Incentive	Protracts Payment Incentive	NOTES
587-Structure for Water Control: Concrete Turnout Structure	CuYd	0	1090.67	$ -	$ -	Overflow structure
587-Structure for Water Control: Concrete Turnout Structure	CuYd	0	1090.67	$ -	$ -	Intake structure
587-Structure for Water Control: Concrete Turnout Structure - Small	Ea	0	2715.38	$ -	$ -	6+16, 10+30, 15+54, 15+74, 156+50
587-Structure for Water Control: Concrete Turnout Structure	CuYd	0	1090.67	$ -	$ -	27+55
587-Structure for Water Control: Concrete Turnout Structure	CuYd	0	1090.67	$ -	$ -	48+10
587-Structure for Water Control: Concrete Turnout Structure	CuYd	0	1090.67	$ -	$ -	58+40
587-Structure for Water Control: Concrete Turnout Structure	CuYd	0	1090.67	$ -	$ -	71+33
587-Structure for Water Control: Concrete Turnout Structure	CuYd	6	1090.67	$ 6,544.02	$ 6,545.00	102+00
Practice Code: Component	Unit_ Type		0	$ -	$ -	
587-Structure for Water Control: Steel Fabrication	Lb	2966	3.14	$ 9,313.24	$ 9,314.00	covers and deflectors 8.5#/sqft: 95+95+159sqft
430-Irrigation Pipeline: PVC Pipe >= 10 inch	Lb		2.61	$ -	$ -	24"
430-Irrigation Pipeline: PVC Pipe >= 10 inch	Lb	86532	2.61	$ 225,848.52	$ 225,849.00	4467' 21" 80 psi, 60' 21" 100 psi 71+33-102+00, 118+40-128+00
430-Irrigation Pipeline: PVC Pipe >= 10 inch	Lb	22820	2.61	$ 59,560.20	$ 59,561.00	1620' 18" 80psi, 40' 100psi 102+00-118+20
430-Irrigation Pipeline: HDPE (Iron Pipe Size & Tubing)	Lb	30295	2.88	$ 87,249.60	$ 87,250.00	1500' 18" hdpe DR21 128+00-142+85
430-Irrigation Pipeline: PVC Pipe >= 10 inch	Lb		2.61	$ -	$ -	15" pipe 80psi, 100psi
430-Irrigation Pipeline: PVC Pipe >= 10 inch	Lb		2.61	$ -	$ -	12" pipe
587-Structure for Water Control: Concrete Turnout Structure	CuYd	6	1090.67	$ 6,544.02	$ 6,545.00	117+80
587-Structure for Water Control: Concrete Turnout Structure	CuYd	16	1090.67	$ 17,450.72	$ 17,451.00	142+82
Practice Code: Component	Unit_ Type		0	$ -	$ -	
587-Structure for Water Control: Concrete Turnout Structure	CuYd		1090.67	$ -	$ -	157+20
587-Structure for Water Control: Concrete Turnout Structure	CuYd		1090.67	$ -	$ -	174+86
587-Structure for Water Control: Cleaning Screens	Lb		10.01	$ -	$ -	deflectors
587-Structure for Water Control: Steel Fabrication	Lb		3.14	$ -	$ -	covers
Practice Code: Component	Unit_ Type		0	$ -	$ -	
			TOTAL	$412,510.32	$412,515.00	

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Tasks

PRACTICE CODE - COMPONENT	Unit	Amount	Unit Cost	Proposed Payment Incentive	Protracts Payment Incentive	NOTES
587-Structure for Water Control: Concrete Turnout Structure	CuYd	0	908.89	$ -	$ -	Overflow structure
587-Structure for Water Control: Concrete Turnout Structure	CuYd	0	908.89	$ -	$ -	Intake structure
587-Structure for Water Control: Concrete Turnout Structure - Small	Ea	4	2262.81	$ 9,051.24	$ 9,052.00	6+16, 10+30, 15+54, 15+74
587-Structure for Water Control: Concrete Turnout Structure	CuYd	7	908.89	$ 6,362.23	$ 6,363.00	27+55
587-Structure for Water Control: Concrete Turnout Structure	CuYd	5	908.89	$ 4,544.45	$ 4,545.00	48+10
587-Structure for Water Control: Concrete Turnout Structure	CuYd	8	908.89	$ 7,271.12	$ 7,272.00	58+40
587-Structure for Water Control: Concrete Turnout Structure	CuYd	8	908.89	$ 7,271.12	$ 7,272.00	71+33
587-Structure for Water Control: Concrete Turnout Structure	CuYd	0	908.89	$ -	$ -	102+00
Practice Code: Component	Unit_ Type	0	0	$ -	$ -	
587-Structure for Water Control: Steel Fabrication	Lb	5024	2.62	$ 13,162.88	$ 13,163.00	deflectors and covers 8.5#/sqft
430-Irrigation Pipeline: PVC Pipe >= 10 inch	Lb	143076	2.18	$ 311,905.68	$ 311,906.00	24" pipe 5670' 80psi, 220'100psi 0+00-58+40
430-Irrigation Pipeline: PVC Pipe >= 10 inch	Lb	24586	2.18	$ 53,597.48	$ 53,598.00	1293' 21" 80psi 58+40-71+33
430-Irrigation Pipeline: PVC Pipe >= 10 inch	Lb	0	2.18	$ -	$ -	535' 18" 80psi 0+00-5+35
430-Irrigation Pipeline: PVC Pipe >= 10 inch	Lb	0	2.18	$ -	$ -	18" hdpe 1582' DR21
430-Irrigation Pipeline: PVC Pipe >= 10 inch	Lb	0	2.18	$ -	$ -	1040' 15" 80psi 5+35-15+75
430-Irrigation Pipeline: PVC Pipe >= 10 inch	Lb	0	2.18	$ -	$ -	12" pipe
587-Structure for Water Control: Concrete Turnout Structure	CuYd	0	908.89	$ -	$ -	117+80
587-Structure for Water Control: Concrete Turnout Structure	CuYd	0	908.89	$ -	$ -	142+82
Practice Code: Component	Unit_ Type	0	0	$ -	$ -	
587-Structure for Water Control: Concrete Turnout Structure	CuYd	0	908.89	$ -	$ -	157+20
587-Structure for Water Control: Concrete Turnout Structure	CuYd	0	908.89	$ -	$ -	174+86
587-Structure for Water Control: Cleaning Screens	Lb	0	8.34	$ -	$ -	
587-Structure for Water Control: Steel Fabrication	Lb	0	2.62	$ -	$ -	covers/deflectors
430-Irrigation Pipeline: Steel (Corrugated Steel Pipe)	Lb	0	1.06	$ -	$ -	50' 36", 20' 18", 350' 12"
			TOTAL	$413,166.20	$413,171.00	

Method/Procedure:

Contractor will install pipe, concrete boxes, gates, culverts fittings etc. in accordance with the specifications given on the engineering plans and in compliance with NRCS and local rules and codes. Each task will be observed and approved by the NRCS/company engineer.

The procedure of installation will be dictated by the annual irrigation schedule, weather, and flow of finances. The ditch will to remain operable during irrigation seasons, so work will be scheduled around the April 1 to Oct 1 window. Work is intended to begin Oct 15, 2020, but might be earlier depending on the details of the water year. In a mild winter, work might continue in the winter months, but the elevation of the ditch (6000-7500 ft) may preclude work during cold weather. The project is anticipated to require work during the Fall of 2020 and Spring and Fall of 2021. The company anticipates being able to keep cash flow and work going continuously, but there could be scheduling matters arising from weather, material availability, and from efforts to maximize the use of grants while minimizing the use of the loan.

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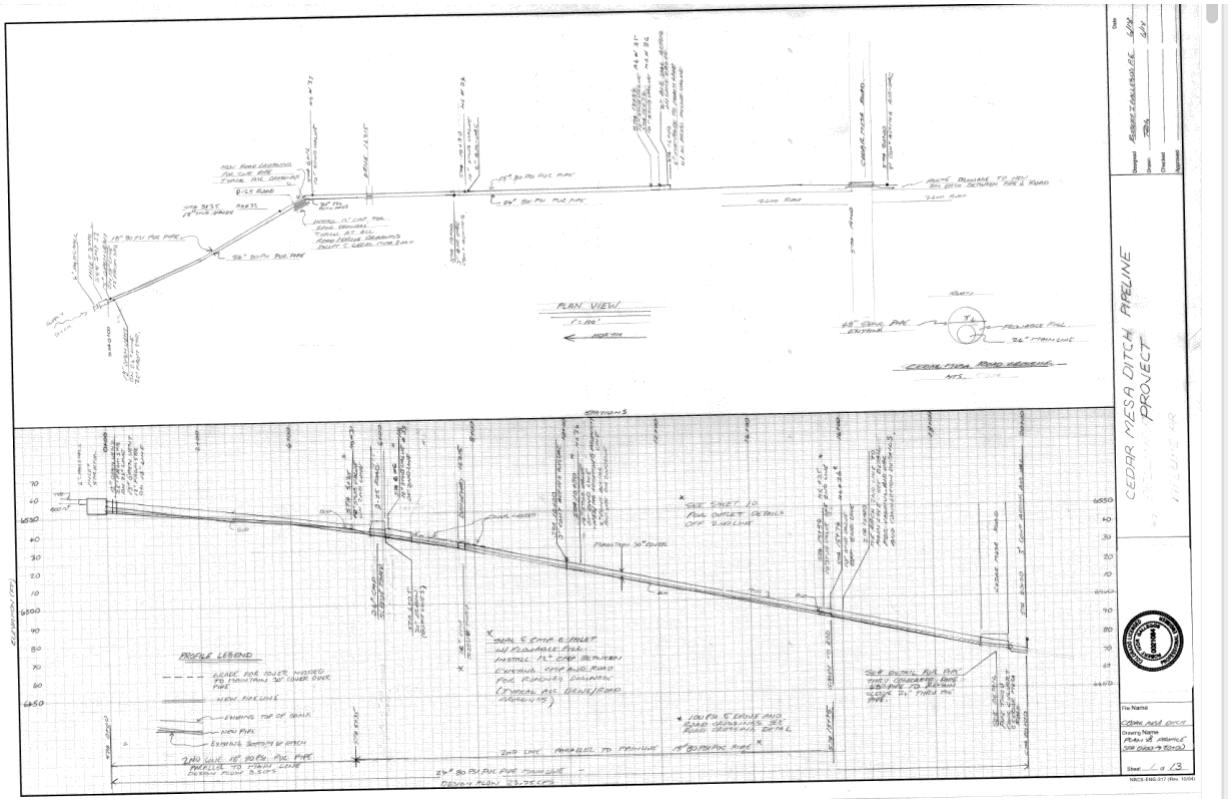

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Water Plan Grant – Exhibit C

Maps of Project Area and Service Area

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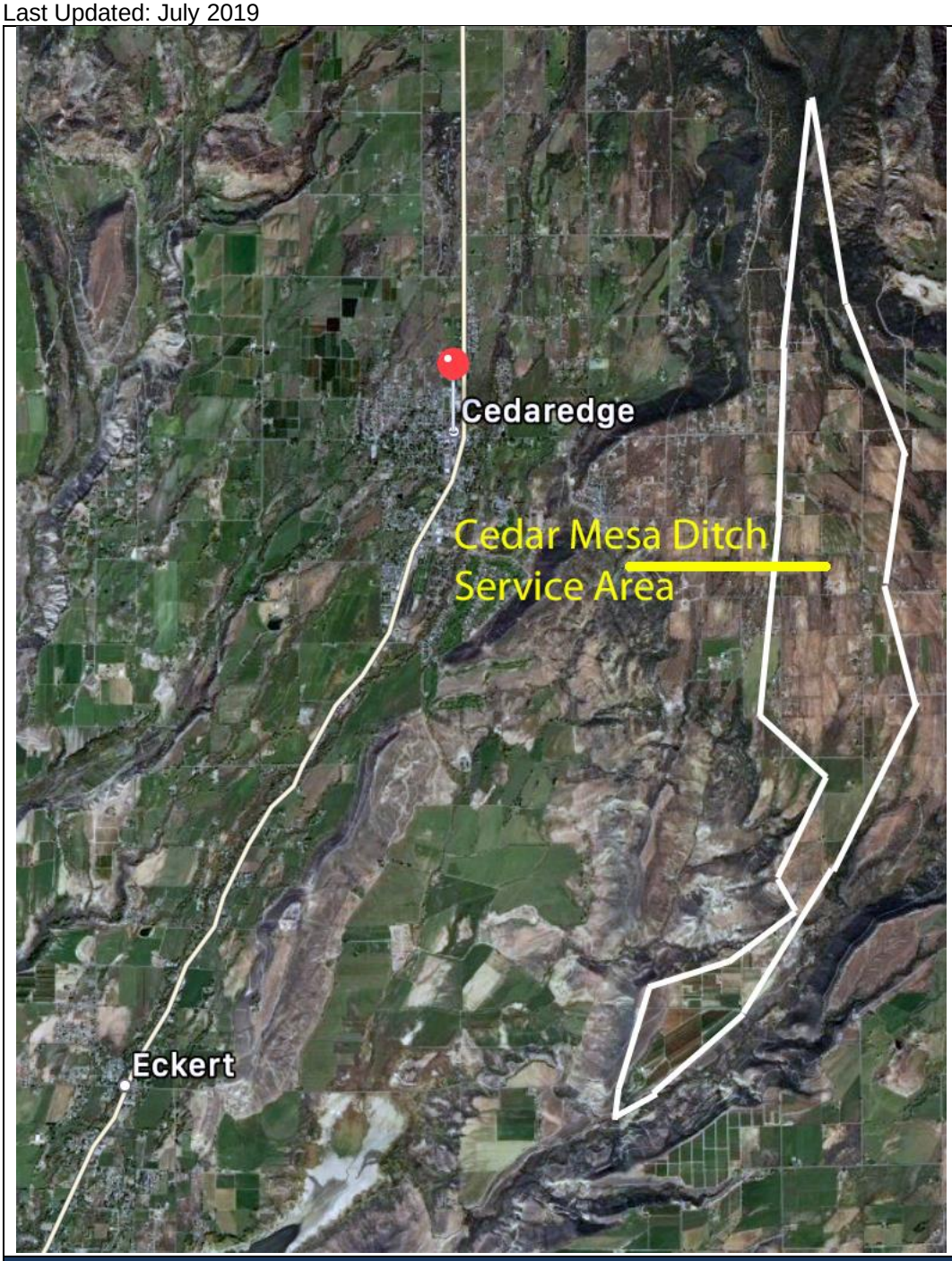

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Reporting Requirements

Progress Reports: The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of issuance of a purchase order, or the execution of a contract. The progress report shall describe the status 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 Report: At completion of the project, the applicant shall provide the CWCB a Final Report on the applicant's letterhead that:

- Summarizes the project and how the project was completed.
- Describes any obstacles encountered, and how these obstacles were overcome.
- Confirms that all matching commitments have been fulfilled.
- Includes photographs, summaries of meetings and engineering reports/designs.

The CWCB will pay out the last 10% of the budget when the Final Report is completed to the satisfaction of CWCB staff. Once the Final Report has been accepted, and final payment has been issued, the purchase order or grant will be closed without any further payment.

Payment

Payment will be made based on actual expenditures and must include invoices for all work completed. The request for payment must include a description of the work accomplished by task, an estimate of the percent completion for individual tasks and the entire Project in relation to the percentage of budget spent, identification of any major issues, and proposed or implemented corrective actions.

Costs incurred prior to the effective date of this contract are not reimbursable. The last 10% of the entire grant will be paid out when the final deliverable has been received. All products, data and information developed as a result of this contract must be provided to CWCB in hard copy and electronic format as part of the project documentation.

Performance Measures

Performance measures for this contract shall include the following:
(a) Performance standards and evaluation: Grantee will produce detailed deliverables for each task as specified. Grantee shall maintain receipts for all project expenses and documentation of the minimum in-kind contributions (if applicable) per the budget in Exhibit A. Per Water Plan Grant Guidelines, the CWCB will pay out the last 10% of the budget when the Final Report is completed to the satisfaction of CWCB staff. Once the Final Report has been accepted, and final payment has been issued, the purchase order or grant will be closed without any further payment.
(b) Accountability: Per Water Plan Grant Guidelines full documentation of project progress must be submitted with each invoice for reimbursement. Grantee must confirm that all grant conditions have been complied with on each invoice. In addition, per Water Plan Grant Guidelines, Progress Reports must be submitted at least once every 6 months. A Final Report must be submitted and approved before final project payment.
(c) Monitoring Requirements: Grantee is responsible for ongoing monitoring of project progress per Exhibit A. Progress shall be detailed in each invoice and in each Progress Report, as detailed above. Additional inspections or field consultations will be arranged as may be necessary.
(d) Noncompliance Resolution: Payment will be withheld if grantee is not current on all grant conditions. Flagrant disregard for grant conditions will result in a stop work order and cancellation of the Grant Agreement.

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Performance Measures
Performance measures are specified by the NRCS and the engineer. These include purchase oversight, quality materials, regular inspections, construction monitoring, concrete strength measures, contractor paperwork completion, and overall installation timing.