

**WaterSMART Grant Application
Small-Scale Efficiency Projects
for Fiscal Year 2018
FOA No. BOR-DO-18-F009**

**Ashland Main Canal
Plummer Piping**

**TALENT IRRIGATION DISTRICT
APPLICANT**



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TECHNICAL PROPOSAL AND EVALUATION CRITERIA

EXECUTIVE SUMMARY

July 3, 2018

The Talent Irrigation District's project area includes land in and around the cities of Medford, Phoenix, Talent and Ashland in Jackson County in southwest Oregon. The District is requesting financial assistance to pipe a 360' section of the Ashland Main Canal through the Plummer property, located at 3368 Siskiyou Boulevard in Ashland Oregon. A significant leak developed several years ago, and many attempts since then were made to seal the leak including cutting the bank, smearing the canal prism, placing Teranap¹, and more recently reinforced shotcrete. These remedies succeeded for a while, but inevitably the leak would return. The District has determined that the best remedy would be to pipe this section using 36" HDPE water tight pipe. The estimated savings are 300 acre feet of water annually. This project is located within the Bureau of Reclamation's Rogue River Basin Project – Talent Division. The District would like to complete this project during the next maintenance season that runs from October 2018 through March 2019. The District will monitor the site during irrigation season making the estimated completion date September 30, 2019.

BACKGROUND DATA

The Talent Irrigation District is a special district government organized under Oregon Revised Statutes (ORS) 545 by order of the Jackson County Commissioners on May 22, 1916. By the late 1920s the District's original system was constructed which served approximately 10,000 acres.

In 1956 the water users of the District voted and approved the signing of a contract with the Bureau of Reclamation for the rehabilitation and enlargement of the system, which became known as the Rogue River Basin Project - Talent Division.

The District has storage in three Reclamation reservoirs: Howard Prairie, Hyatt Prairie and Emigrant. The District's irrigation water supply comes from the flows of the following creeks: South Fork of Little Butte Creek and its tributaries; Grizzly Creek and Keene Creek above Hyatt Prairie and Keene Creek Reservoirs; Emigrant Creek and its tributaries above Emigrant Reservoir; Bear Creek and its tributaries below Emigrant Reservoir; as well as several other tributaries throughout the Federal Project area.

Irrigation water is provided to the District waterusers by an extensive collection, diversion, storage, and conveyance system. The District makes its water deliveries through 120 miles of canals and 113 miles of laterals. Approximately 15 percent of the canals are either piped or lined. Approximately 70 percent of laterals are piped with varying sizes, pressures and materials.

¹ "Teranap GTX is a bituminous geomembrane that has been closely bonded to a puncture resistant geotextile which enhances the mechanical performance making it the most robust membrane in the industry." www.siplast.com/HC/Products/Waterproofing/SBS%20Modified%20Bitumen%20Waterproofing/Prefabricated%20Bituminous%20Geomembrane/Teranap%20GTX.aspx

The District provides agricultural water for commercial and residential irrigation to land included within its boundaries. The District consists of approximately 2,950 waterusers with 3,480 tax lots over 15,500 irrigated acres. The estimated annual usage is 55,000 acre feet. The dominant crop is forage (hay) followed by tree fruits, grapes, vegetables and other crops.

During hot weather events and the timing of certain crop harvests, the District struggles to keep water to the end-users of each of its six canals. Even though the design capacity of the canals are adequate to serve the canal acreages, during these hot weather events when the aquatic vegetation is at its peak and demand is at its highest, it is difficult and at times impossible to serve the end-user. Patrons on the tail-end of the canals are hesitant to convert from flood irrigation to more efficient methods due in large part to the unreliability of holding a workable or steady head on their intake systems.

According to the District's Water Management and Conservation Plan (WMCP)², the District operates at a deficit during below-average water years. When snow pack and stream flows are below normal, the District often has to draw from its storage reservoirs earlier than normal; and depending on the starting storage capacity, can create a shortfall for that year, which can also extend into the following year. The District relies heavily on accumulated storage supply to provide a full irrigation season.

The Ashland Main Canal is one of six canals the District uses to deliver water to its patrons. It begins at Reclamation's Green Springs Power Plant located southeast of the City of Ashland and terminates at Pinecrest Terrace and Starlite Place in south Ashland where the City of Ashland takes over responsibility of the canal. It serves approximately 880 patrons on 1,780 irrigated acres. Its main production is forage and hay production with some tree fruits and grapes. Approximately 8% of its 16.9 miles have been piped.

Since the District's irrigation water is delivered primarily through canals that are open channels that are subject to high seepage losses and periodic canal bank failures, continued monitoring of the delivery system helps to identify areas of concern, and high seepage areas are given higher priority status. This 360' section of the Ashland Main Canal has two areas where significant leaks are present, estimated at 300 acre feet per season.

Through Reclamation grant opportunities the District has been able to pair scarce District dollars with Federal funds to make improvements to the District's system that have resulted in conserving water, controlling soil erosion and increasing efficiency in water deliveries. Without continued financial assistance from the Bureau of Reclamation, the District would need to delay the majority of its capital improvement projects to find other funding sources. Below is a list of recent projects funded with Reclamation grant funds.

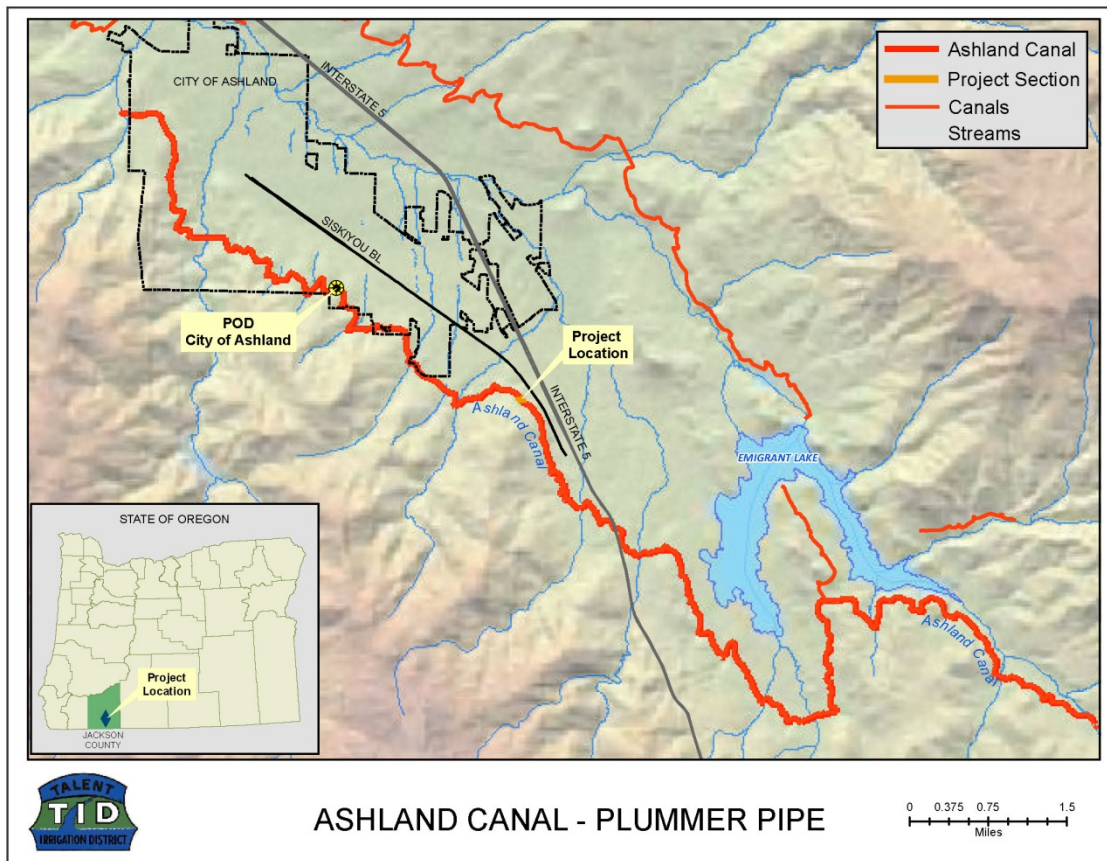
- R16AP00067 Canal Lining & Piping – \$25,000 grant - Completed April 20, 2018 – Lined 700' of canal and piped 560' for a cost of \$50,133.

² Talent Irrigation District – Water Management & Conservation Plan – April 2018

- R15AP00058 EMC Canal Lining Project - \$15,670 grant – Completed January 29, 2018 – Lined 1,140’ of canal for a cost of \$34,180.
- R09AP13423 2009 Canal Lining & Piping - \$126,709 grant – Completed March 9, 2014 – Lined 2,980’ of canal and piped 5,000’ for a cost of \$253,418.

PROJECT LOCATION

The Ashland Main Canal Plummer Piping project site is located in Jackson County, Oregon, approximately one mile southeast of the City of Ashland. The mid-point of the project is located on latitude 42°09’51.45N and longitude 122°39’26.93W. The project site is located between canal mile marker 12 and 13 on the 16.9 mile long canal.



TECHNICAL PROJECT DESCRIPTION

Two significant leaks, estimated at .75 to 1.0 cubic foot per second, have developed through this 360’ section of the Ashland Main Canal located between mile marker 12 and 13. Several attempts in the past to seal the leaks have been unsuccessful. The District proposes to pipe this section of canal through the Plummer property located at 3368 Siskiyou Boulevard just outside the City of Ashland with 36” high density polyethylene pipe (HDPE).

Labor will be provided by District personnel using District owned equipment. Materials and supplies will be purchased from local vendors according to current District policies and procedures.

Tasks include:

- Site Preparation
 - Removal of the existing concrete liner
 - Reshaping the canal prism
- Headwall Construction
 - Excavation of site
 - Build form for concrete structure
 - Pour concrete
 - Strip forms and backfill around structure
- Pipe Installation
 - Excavate canal prism
 - Place pipe
 - Backfill using material from District stockpile
- Point of Diversion Box Construct (2)
 - Excavate sites
 - Build forms for concrete structures
 - Pour concrete
 - Strip forms and backfill around boxes
- Site Cleanup
 - Haul off material
 - Restore grade
- Monitoring
 - Visual inspection of leak sites
 - Contact with property owner (Plummer)
- Reporting Requirements of grant
 - Periodic Reports
 - Final Report

The expected outcomes of this project are:

- Conserves water, estimated at 300 acre feet annually;
- Reduces damage from leaks to downslope property.

EVALUATION CRITERIA

Criterion A – Project Benefits (35 points)

- **Describe the expected benefits and outcomes of implementing the proposed project.**
 - **What are the benefits to the applicant’s water supply delivery system?**
 - Encloses the canal through the piped section, reducing water loss from leaks, seepage and evaporation in the system.
 - Provides a more efficient water delivery system.
 - Improves the flow of water by reducing friction/turbidity.

- Eliminates the growth of both aquatic and terrestrial vegetation through this section that can choke the canal.
- Reduces the need of canal cleanings through this section.
- Reduces the likelihood of a canal failure.
- **If other benefits are expected explain those as well.**
 - Conserves an estimated 300 acre feet of water annually.
 - Improves delivery reliability by preventing the loss of water in the delivery system, providing a more reliable supply to the end user.
 - Improves the water supply since the water saved can be held in the reservoirs for future use.
 - Increases the storage in the reservoirs, allowing for additional recreational use.
 - Increases the availability of water for other uses, such as augmenting the operational stream flow enhancement as determined by the requirement of the Biological Opinion.³
 - Reduces the risk of damage to downslope properties.

Criterion B – Planning Efforts Supporting the Project (35 points)

- **Describe how your project is supported by an existing planning effort.**
 - **Does the proposed project implement a goal or address a need or problem identified in the existing planning effort?**
 - As stated in the District’s Water Management and Conservation Plan (WMCP), Executive Summary, Page 11, GOALS, “General goals include development and implementation of conservation projects according to criteria that accounts for financial capacity of the TID, time, operational risk priorities, and environmental and regulatory consideration. Project objectives include:
 1. Improvements to water distribution system;
 2. Improvements in water measurement, management and control;
 3. Reductions in seepage losses;
 4. Reductions in operations and maintenance costs; and
 5. Improvements in water delivery accountability; and
 6. Reduce liabilities to the TID.”

Piping is the most efficient method of accomplishing these WMCP’s objectives. The placing of pipe in this 360’ section of the canal will:

1. Improve the efficiency of the water distribution system by eliminating water loss in this 360’ section;

³ Endangered Species Act Biological Opinion and Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat Response for the Future Operation and Maintenance of the Rogue River Basin Project (2012-2022), Rogue and Klamath River Basins (HUCs: 18010206, 17100308, 17100307), Oregon and California.

2. Improve water management and control by eliminating canal losses allowing more accurate measurements of on-farm use;
 3. Reduce leaks, seepage and evaporation losses by enclosing the canal prism;
 4. Reduce operation and maintenance costs by eliminating the need of canal cleaning in the winter months and moss removal during the summer months;
 5. Improve water delivery reliability by minimizing water loss through this section which provides
 - a. a more reliable flow to the end users and/or
 - b. for the conserved water to be held in storage;
 6. Reduce District liability by decreasing the likelihood of damage to the downslope property.
- **Explain how the proposed project has been determined as a priority in the existing planning effort as opposed to other potential projects/measures.**
 - Several previous attempts to seal the leaks have been unsuccessful.
 - A significant amount of water is being lost, estimated at 300 acre feet per season.
 - Continued damage to downslope property will be prevented.
 - The Ashland Main Canal is listed as a high risk canal through an urban area.

Criterion C – Project Implementation (10 Points)

- **Describe the implementation plan for the proposed project. Please include an estimated project schedule that shows the stages and duration of the proposed work, including major tasks, milestones, and dates.**
 - District personnel will perform all of the tasks detailed below with the exception of the regulatory compliance requirements which will be performed by Reclamation staff.

Project Schedule

DESCRIPTION	2018	2019	
	Oct - Dec	Jan - Mar	Apr - Sept
Regulatory Compliance			
Administrative			
Bid Material			
Grant Reporting			
Construction			
Prep Site			
Headwall Construction (1)			
Pipe Installation (360')			
POD Box Construction (2)			
Backfill			
Site Cleanup			
Monitor site for leaks/seepage			

- **Describe any permits that will be required.**
 - No permits are required.
- **Identify and describe any engineering or design work.**
 - No engineering or design work is required.
- **Describe any new policies or administrative actions required to implement this project.**
 - No new policies or administrative actions are required. The District will use the existing policies and procedures for procurements.
- **Describe how the environmental compliance estimate was developed.**
 - District staff consulted with Reclamation staff for an estimate of the regulatory compliance costs. The Environmental Protection Specialist feels this project should qualify for a Categorical Exclusion Checklist. The Archeologist expects this project will result in an Adverse Effect determination from the State Historic Preservation Officer.

Criterion D – Nexus to Reclamation (10 Points)

- **Is the project connected to a Reclamation project or activity?**
 - Yes. The District is part of Reclamation’s Rogue River Basin Project – Talent Division. The District signed a contract with Reclamation for the rehabilitation and enlargement of the system. As a result, the District in 1960 quitclaimed the system to the Bureau of Reclamation recorded in Vol. 495 Page 375 of the Official Records of Jackson County, Oregon.
- **Will the project benefit any tribe(s)?**
 - This project will not benefit any tribe.

Criterion E – Department of the Interior Priorities (10 Points)

- **Modernizing our infrastructure.**
 - With only 8% of the Ashland Main Canal enclosed in pipe, the remaining 92% is open channel. Projects such as this will assist in modernizing the existing infrastructure, creating a more efficient system.

PROJECT BUDGET

Funding Plan

The estimated cost of this project is \$52,093. The property owner has committed to providing financial assistance of \$4,000 toward the project and will make the funds available as soon as the District requests them. The District will provide in-kind contributions estimated at \$22,047. The District does not anticipate any pre-award costs and has not included any in the proposed budget.

Table 1. Summary of Non-Federal and Federal Funding Sources

FUNDING SOURCES	AMOUNT
Non Federal Entities	
1) Bob Plummer (Property Owner)	\$4,000
2) Talent Irrigation District In-Kind Contributions	\$22,047
REQUESTED RECLAMATION FUNDING	\$26,046

Budget Proposal

Table 2. Estimated Project Costs

BUDGET ITEM DESCRIPTION	\$/Unit	Quantity	Qty Type	TOTAL COST
Salaries & Wages				
Program Mngr - Jim Pendleton	INCLUDED IN DE MINIMUS COSTS BELOW			
Foreman	\$23.02	20.0	hour	\$460
<i>General Laborers</i>				
Laborer #4	\$16.32	87.0	hour	\$1,420
Laborer #6	\$17.15	110.0	hour	\$1,887
Laborer #8	\$17.15	150.0	hour	\$2,573
Laborer #9	\$19.34	124.0	hour	\$2,398
Laborer #11	\$23.01	114.0	hour	\$2,623
Total Salaries & Wages				\$11,361
Fringe Benefits				
Project Mngr - Jim Pendleton	INCLUDED IN DE MINIMUS COSTS BELOW			
Foreman	\$17.49	20.0	hour	\$350
<i>General Laborers</i>				
Laborer #4	\$7.44	87.0	hour	\$647
Laborer #6	\$12.61	110.0	hour	\$1,387
Laborer #8	\$14.44	150.0	hour	\$2,166
Laborer #9	\$15.73	124.0	hour	\$1,951
Laborer #11	\$18.01	114.0	hour	\$2,053
Total Fringe Benefits				\$8,554
Equipment (District Owned)				
Various Pickups	\$0.545	240.0	miles	\$131
#1 Cement Truck	\$38.200	3.0	hour	\$115
#4 Kenworth 10yd Dump Truck	\$56.400	10.0	hour	\$564
#8 Equipment Hauler	\$47.09	4.0	hour	\$188
#83 Zieman Trailer	\$3.47	4.0	hour	\$14
#130 Case Excavator	\$28.35	5.0	hour	\$142
#135 Concrete Mixer	\$2.09	12.0	hour	\$25
#313 Cat Excavator	\$33.70	28.0	hour	\$944
Total Equipment Use				\$2,122
Supplies and Materials				
36" HDPE Pipe	\$39.26	360	feet	\$14,134
36" 22 1/2 Degree Elbow	\$1,278.08	3	each	\$3,834
4" Sch 40 PVC Pipe	\$2.29	40	feet	\$92
4" Brass Gate Valve	\$106.00	2	each	\$212
4" MT Adaptor	\$6.86	4	each	\$27
Plywood 3/4"x4"x8'	\$24.50	14	each	\$343
2"x6"x12' Lumber	\$16.77	6	each	\$101
#4 Rebar 20'	\$6.15	15	each	\$92
Cement	\$11.25	23	bag	\$259
Sand & Gravel Mix	\$25.77	4.6	cubic yard	\$119
Locate Wire, Hardware, Wedge Ties				\$200

Total Material			\$19,412
TOTAL DIRECT COSTS			\$41,448
Indirect Costs			
de minimus	10%	\$41,448	\$4,145
Environmental Compliance			\$6,500
TOTAL ESTIMATED PROJECT COSTS			\$52,093

Budget Narrative

Salaries and Wages

The Program Manager is the District Manager, Jim Pendleton.

By the submittal of this application, I, Jim Pendleton, certify that the labor rates included in the budget proposal represent the actual current labor rates of the identified personnel. These rates are to be taken as estimates only. Increases to wages and salaries are determined annually by the Board of Directors during the budgeting process. If given, they become effective on October 1st of each year. Since this project will take place after October 1, 2018, actual labor costs applicable to that time period will be used in determining the District’s in-kind contribution.

The administrative staff will prepare the documents necessary for compliance with the reporting requirements of this agreement, including the final project report, with oversight by the Program Manager. Since this proposed project is scheduled to be completed within a 12 month period, the District anticipates producing two semi-annual reports and one final report. The time needed to meet reporting requirements is estimated at 15 hours. This cost is included in the 10% de minimus of the proposed budget.

Table 3. Estimated Labor Cost By Task

TASK DESCRIPTION	DIRECT LABOR RATE	FRINGE BENEFIT RATE	# of Hours	DIRECT LABOR TOTAL	FRINGE BENEFIT TOTAL	Total Each Task
Regulatory Compliance						
Bureau of Reclamation Personnel						
Program Management: Oversight						
Program Manager	INCLUDED IN DE MINIMUS					
Construction Supervision						
Foreman	\$ 23.02	\$ 17.49	20	\$460.40	\$349.80	\$810.20
Site Prep						
Laborer #4	\$ 16.32	\$ 7.44	10	\$163.20	\$74.40	\$1,612.00
Laborer #6	\$ 17.15	\$ 12.61	10	\$171.50	\$126.10	
Laborer #8	\$ 17.15	\$ 14.44	10	\$171.50	\$144.40	
Laborer #9	\$ 19.34	\$ 15.73	10	\$193.40	\$157.30	
Laborer #11	\$ 23.01	\$ 18.01	10	\$230.10	\$180.10	
Headwall Construction						
Laborer #4	\$ 16.32	\$ 7.44	24	\$391.68	\$178.56	\$1,612.00
Laborer #6	\$ 17.15	\$ 12.61	24	\$411.60	\$302.64	

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Laborer #8	\$ 17.15	\$ 14.44	24	\$411.60	\$346.56	
Laborer #9	\$ 19.34	\$ 15.73	24	\$464.16	\$377.52	
Laborer #11	\$ 23.01	\$ 18.01	24	\$552.24	\$432.24	\$3,868.80
Pipe Installation						
Laborer #4	\$ 16.32	\$ 7.44	40	\$652.80	\$297.60	
Laborer #8	\$ 17.15	\$ 14.44	40	\$686.00	\$577.60	
Laborer #11	\$ 23.01	\$ 18.01	40	\$920.40	\$720.40	\$3,854.80
POD Box Construction (2)						
Laborer #4	\$ 16.32	\$ 7.44	8	\$130.56	\$59.52	
Laborer #6	\$ 17.15	\$ 12.61	32	\$548.80	\$403.52	
Laborer #8	\$ 17.15	\$ 14.44	72	\$1,234.80	\$1,039.68	
Laborer #9	\$ 19.34	\$ 15.73	50	\$967.00	\$786.50	
Laborer #11	\$ 23.01	\$ 18.01	40	\$920.40	\$720.40	\$6,811.18
Backfill						
Laborer #6	\$ 17.15	\$ 12.61	40	\$686.00	\$504.40	
Laborer #9	\$ 19.34	\$ 15.73	40	\$773.60	\$629.20	\$5,987.50
Site Cleanup						
Laborer #6	\$ 17.15	\$ 12.61	4	\$68.60	\$50.44	
Laborer #8	\$ 17.15	\$ 14.44	4	\$68.60	\$57.76	
Monitoring						
Laborer #4	\$ 16.32	\$ 7.44	5	\$81.60	\$37.20	\$118.80
Reporting Requirements - project management and administrative costs included in 10% de minimus						
TOTALS			605	\$11,361	\$8,554	\$23,063

Fringe Benefits

The Fringe Rates used in the budget proposal are provisional rates for billing purposes based on current costs and should be taken as estimates only. Since construction of this project will take place after October 1, 2018, actual fringe benefit costs applicable to that time period will be used in determining the District’s in-kind contribution. The table below identifies the current fringe benefit and rate calculated for each position and reported in the proposed budget.

Table 4. Fringe Rates

Position	Retire-ment	FICA	Health Ins	St Emp Ins	Workers Comp Ins	Leave Accrual	Veh. Allow.	Fringe Rate
Prog. Mngr	11.62	3.76	10.96	.06	.21	3.33	1.15	31.09
Foreman	5.52	1.79	7.53	.03	.97	1.30	.35	17.49
Laborer #4	2.47	1.27	2.21	.02	.69	.43	.35	7.44
Laborer #5	2.17	1.12	5.47	.02	.61	.28	.24	9.91
Laborer #6	2.54	1.31	7.10	.02	.73	.91	.00	12.61
Laborer #8	4.11	1.33	7.10	.02	.73	.91	.24	14.44
Laborer #9	4.77	1.55	7.10	.02	.82	1.23	.24	15.73
Laborer #11	5.65	1.83	7.72	.03	.97	1.81	.00	18.01

Travel

No travel expenses are anticipated and are not included in the proposed budget.

Equipment

The District will use its own equipment on this proposed project. The usage rates have been calculated using the United States Army Corps of Engineers Construction Equipment Ownership and Operating Expenses Schedule and the Standard Mileage rate published by the United States Treasury, Internal Revenue Service.

The District’s equipment rates for 2018 are below:

EQUIPMENT RATES USING THE ARMY CORP OF ENGINEERS CONSTRUCTION EQUIPMENT OWNERSHIP & OPERATING SCHEDULE FOR REGION VIII DATED 11/30/2016				
REVISED 01/01/2018		2018 RATES		
#	DESCRIPTION	MILE	HOURLY	STANDBY
1	82 MILITARY CEMENT TRK		38.20	4.51
3	81 INTL DUMP TRK - 5 YD		22.03	2.50
4	80 KENWORTH DUMP TRK - 10 YD		56.40	5.43
8	88 PETERBILT LOWBOY		47.09	5.35
10	78 MILITARY TRK/BOOM		25.76	0.99
11	78 FORD TRK/BOOM		25.76	0.99
14-60	VARIOUS PASSENGER VEH	IRS SMR		
75	13 KUBOTA TRACK LOADER		15.47	2.10
83	99 ZIEMAN TRAILER		3.47	0.86
91	08 KUBOTA EXCAVATOR		10.17	2.14
121	04 KUBOTA EXCAVATOR		11.61	2.03
130	02 CASE EXCAVATOR		28.35	5.21
135	CEMENT MIXER		2.09	0.20
185	AIR COMPRESSOR		13.07	1.18
200	WELDER		1.19	0.13
204	85 THOMSEN CONCRETE PUMP		25.98	3.20
207	CHIPPER		14.04	1.46
312	97 CAT EXCAVATOR		30.37	5.43
313	09 312DL CAT EXCAVATOR		33.70	7.26
334	99 BOBCAT EXCAVATOR		10.37	1.66
550	95 JD CRAWLER/DOZER		40.37	5.42
580	90 CASE BACKHOE		16.20	1.54
600	D-6 CAT/DOZER		43.27	1.90

Materials and Supplies

A quote for the pipe and fittings was obtained from a local vendor. The cost of the remaining material was derived from recent purchases from our current suppliers. If this project is awarded, the District will follow its policies and procedures for the procurement of materials and supplies.

Contractual

There is no contractual cost budgeted for this project.

Environmental and Regulatory Compliance Costs

The District contacted the Bureau of Reclamation for cost estimates relating to environmental and cultural resources compliance. The Environmental Protection Specialist anticipates the project qualifies for a Categorical Exclusion Checklist. Reclamation’s Archeologist is anticipating an Adverse Effect on the cultural resources in relation to this project. The estimates are as follows and are included in the budget proposal:

- Environmental and Regulatory Compliance: \$500
- Historic and Cultural Resources Compliance: \$6,000

Other Expenses

No other expenses are anticipated for this project.

Indirect Costs

Included in the District’s budget is a *de minimis* rate of 10% of the modified total direct costs which will cover Project Management and administrative costs.

Table 5. Total Costs

TOTAL	IN-KIND	MONETARY	TOTAL	PERC.
NON-FEDERAL	\$22,047	\$4,000	\$26,047	50%
FEDERAL: Reclamation	\$6,500	\$15,546	\$26,046	50%

ENVIRONMENTAL AND CULTURAL RESOURCE COMPLIANCE

- **Will the proposed project impact the surrounding environment (i.e. soil [dust], air, water [quality and quantity], animal habitat, etc.)? Please briefly describe all earth-disturbing work and any work that will affect the air, water, or animal habitat in the project area. Please also explain the impacts of such work on the surrounding environment and any steps that could be taken to minimize the impacts.**

The District will use an excavator to reshape the canal prism before laying the pipe. Fill dirt will be brought in from the District’s stockpile as pipe cover. The project will have no impact on the surrounding environment as all work will be completed within the canal easement. Since this project will occur during the off-season, no water will be in the canal. Dust should not be a problem as all activities will occur during the fall and winter months.

- **Are you aware of any species listed or proposed to be listed as a Federal threatened or endangered species, or designated critical habitat in the project area?**
No.
- **Are there wetlands or other surface waters inside the project boundaries that potentially fall under Clean Water Act (CWA) jurisdiction as “Waters of the United States?”**

No.

- **When was the water delivery system constructed?**
The Ashland Main Canal was constructed in the early 1920s. The canal prism has received regular annual maintenance.
- **Will the proposed project result in any modification of or effects to, individual features of an irrigation system (e.g., headgates, canals or flumes). If so, state when those features were constructed and describe the nature and timing of any extensive alterations or modifications to those features completed previously.**
The shotcrete lining was placed in 2012. The two delivery turnouts are made of modern materials: one is constructed using concrete tile line; the second is constructed of HDPE pipe.
- **Are any buildings, structures, or features in the irrigation district listed or eligible for listing on the National Register of Historic Places? A cultural resources specialist at your local Reclamation office or the State Historic Preservation Office can assist in answering this question.**
Yes, the canals themselves are eligible in addition to many structures of the irrigation system.
- **Are there any known archeological sites in the proposed project area?**
There are no known archeological sites within the proposed project area.
- **Will the proposed project have a disproportionately high and adverse effect on low income or minority populations?**
This project will have no effect on low income or minority populations.
- **Will the proposed project limit access to and ceremonial use of Indian sacred sites or result in other impacts on tribal lands?**
No.
- **Will the proposed project contribute to the introduction, continued existence, or spread of noxious weeds or non-native invasive species known to occur in the area?**
No.

REQUIRED PERMITS OR APPROVALS

No permits are required for this project.

Bob Plummer

3368 Siskiyou Blvd
Ashland OR. 97520
T541 488-5003

boborbobbie@yahoo.com

April 30, 2018

Jim Pendleton
Talent Irrigation District
104 West Valley View Road
Talent, OR 97540

Dear Mr. Pendleton,

Mark (our ditch rider) came by this morning to ask if we were willing to help pay to install pipe for our section of the canal. The short answer is YES and will write you a check as soon as you request it. I will contribute \$4000 to the project and will also authorize you to excavate dirt from the uphill side of the canal. If you do need to excavate dirt I request you make a road and if necessary a flat area to get the dirt. I do not want to be left with a big hole. I also suggest that you stage as much fill as you can fit in at the large open area at the start of the new piped section. I think you can fit at least 50 yards in this spot. There is also a large amount of granite that you have removed from the canal at mile marker 12, maybe you can haul some of that to this job site (less than 1/2 mile). You can also use my road for access, at least if you do the work before it turns to mud.

That said, this leak has been going on for years and has killed four of my biggest oak trees. It also leaves the lower part of my property very swampy. I don't think I should be responsible for fixing a TID problem, but in the interest of getting the job done and ending the constant leak I will help to fund the repair.

Sincerely yours,

Bob Plummer

Bob Plummer

cc: Jim Simpson

**OFFICIAL RESOLUTION
OF THE BOARD OF DIRECTORS OF
TALENT IRRIGATION DISTRICT**

WHEREAS, the Bureau of Reclamation requests an official resolution to commit applicants of WaterSMART: Small-Scale Water Efficiency Projects, Funding Opportunity No. BOR-DO-18-F009 to the financial and legal obligations associated with receipt of WaterSMART grant financial assistance,

WHEREAS, the Talent Irrigation District must maintain, provide for, and service our existing irrigation water delivery system,

WHEREAS, the District desires to conserve water and manage its water supply more efficiently by enclosing 360' of the Ashland Main Canal through the Robert Plummer property located at 3368 Siskiyou Boulevard in Ashland, Oregon.

WHEREAS, the District desires to obtain grant funding from the Bureau of Reclamation through the WaterSMART: Small-Scale Water Efficiency Projects for Fiscal Year 2018, Funding Opportunity No. BOR-DO-18-F009.

NOW THEREFORE, BE IT RESOLVED that the Board of Directors of the Talent Irrigation District agrees and authorizes that:

- They have the legal authority and can authorize, Jim Pendleton, Secretary/Manager, to enter into this agreement;
- They have reviewed and support the application submitted;
- The Talent Irrigation District is capable of providing the amount of funding specified in the funding plan; and
- The Talent Irrigation District will work with Reclamation to meet established deadlines for entering into a grant or cooperative agreement.

DATED: July 3, 2018

ATTEST:




Jim Pendleton, Secretary-Manager



Bob Morris, President



Jeff Bohn, Vice-President



Michael S. Winters, Director
Constituting the Board of Directors of
the Talent Irrigation District