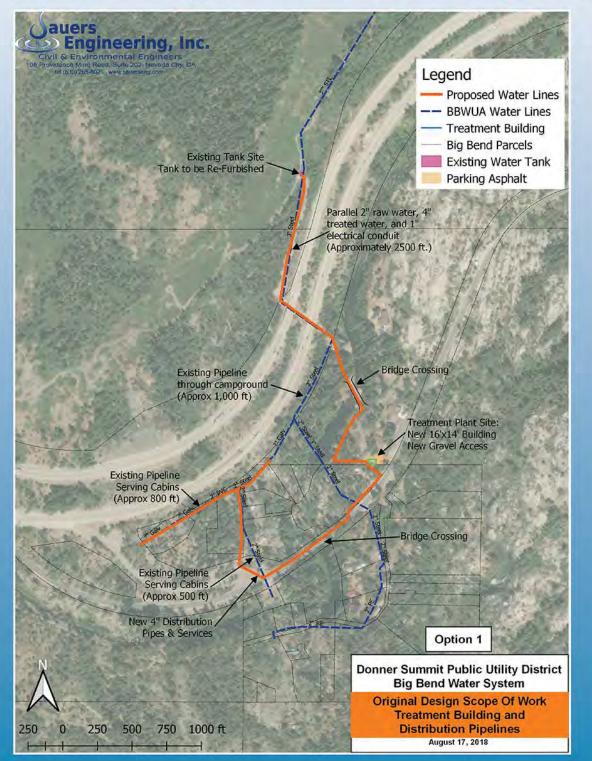


Big Bend Water System Improvements





	Replac	rface Wat ement of	tion 1 er Treatment & Distribution Sys			
			er System Impostruction Estin			
August 17, 2018						
Item	Quantity	Units	Materials	Labor	Extension	Category
Mobilization		I.s.	\$120,000		\$120,000	
SWPPP Implementation		ea	\$10,000	\$10,000	\$20,000	
Clearing & Grubbing	1	I.s.	\$0	\$10,000	\$10,000	
					-	\$150,000.00
Treatment Building and Site Work						
Site Grading		11.s.	\$0	\$10,000	\$10,000	
Slab/Foundation		sq ft	\$20	\$20	\$10,000	
Wood frame building	250 sq ft		\$80	\$80	\$40,000	
Gravel Parking and Access			\$1	\$2	\$9,000	
Electrical Service	3000 sq ft		\$12,000	42	\$12,000	
Building Electrical	11.s.		\$15,000	\$15,000		
Building Electrical		11.s.		\$15,000	\$30,000	6444 000 0
Total Control College College Charles						\$111,000.00
Treatment System (with filtration)	- 2	110		***	A. A	
Filter Vessels and Cartriges		ea.	\$4,000	\$2,000	\$12,000	
Chemical Feed System		ea.	\$2,500	\$1,000	\$3,500	
Contact Pipeline	200		\$30	\$50	\$16,000	
Booster Pump System		I.s.	\$4,000	\$5,000	\$9,000	
Break Tank	- 1	ea.	\$1,000	\$2,000	\$3,000	
					-	\$43,500.00
Monitoring & Control						4.12.12.1
Plant Flow Meter	- 4	ea	\$1,500	\$1,000	\$2,500	
Turbidimeters		2 ea	\$6,000	\$1,000	\$14,000	
Chlorine Residual Analyzer		ea	\$6,000	\$3,000	\$9,000	
Plant PLC		ea	\$10,000	\$10,000	\$20,000	
Modulating Valve		ea	\$1,500	\$1,500	\$3,000	
Pump Control Panel		ea	\$2,500	\$2,500	\$5,000	
Tank Level Transmitters		3 ea	\$1,500	\$1,500	\$9,000	
Communication Conduit/Conductor	2500		\$5	\$30	\$87,500	
SCADA	-	I.S.	\$10,000	\$10,000	\$20,000	
					-+	\$170,000.00
Pipelines						
2" Raw Water Transmission	2500) L.f.	\$10	\$50	\$150,000	
4" Treated Water Transmission	2500	1.1	\$20	\$50	\$175,000	
4" Distribution	3400) Lf.	\$20	\$75	\$323,000	
Water Meters		ea	\$1,000	\$1,300	\$66,700	
Hwy 40 Bridge Crossing	-	I.s.	\$15,000	\$25,000	\$40,000	
USFS Bridge Crossing		I.s.	\$10,000	\$15,000	\$25,000	
USFS Bridge Crossing		1.5.	\$10,000	\$15,000	\$25,000	\$779,700.00
Day Water Took					-	\$119,100.00
Raw Water Tank		V. T.	01.555	00.000	40 505 55	
5000 Gallon Concrete Tank		I.s.	\$4,500	\$5,000	\$9,500.00	
Gravel Pad/UnderDrain		I.s.	\$1,500	\$2,500	\$4,000.00	
Overflow		I.s.	\$1,000	\$1,000	\$2,000.00	
Valves & Appurtenances	1	I.s.	\$600	\$1,000	\$1,600.00	
					-	\$17,100.00
Miscellaneous						
Remove vault under I-80	1	I.s.	\$1,500	\$3,500	\$5,000.00	
AC Surface Restoration- Pipe	25000		\$3	\$4	\$175,000.00	
Rock Excavation		I.s.	\$0	\$100,000	\$100,000.00	
The state of the s		11-91	30	\$100,000	Ψ100,000,00	\$280,000.00
Treated Water Tank Rehab					-	42.00,000.00
		lle:		05 000	er 000 cc	
Grading & Site Development		I.s.		\$5,000	\$5,000.00	
Subsurface Drainage		I.s.	\$1,500	\$2,500	\$4,000.00	
Interior Coating System		I.s.	\$5,000	\$15,000	\$20,000.00	
Exterior Coating System		I.s.	\$2,000	\$5,000	\$7,000.00	
Valves Piping & Accessories	4	I.s.	\$1,000	\$1,500	\$2,500.00	
					-	\$38,500.00
				Cons	truction Subtotal=	\$1,589,800.00
15% Contingency=						
					onstruction Total=	\$238,470.00 \$1,828,270.00
						,
	Planning/Dee	ion/Enviro	nmental Permittin	n to Date (80%	funded by grant)=	\$111,223.00
	. Juning Des	3.45.11110			on Management=	\$40,000.00
			mspe		ant Coordination=	\$10,000.00

Total Project Cost Estimate=

\$1,989,493.00



Big Bend Water System Improvements

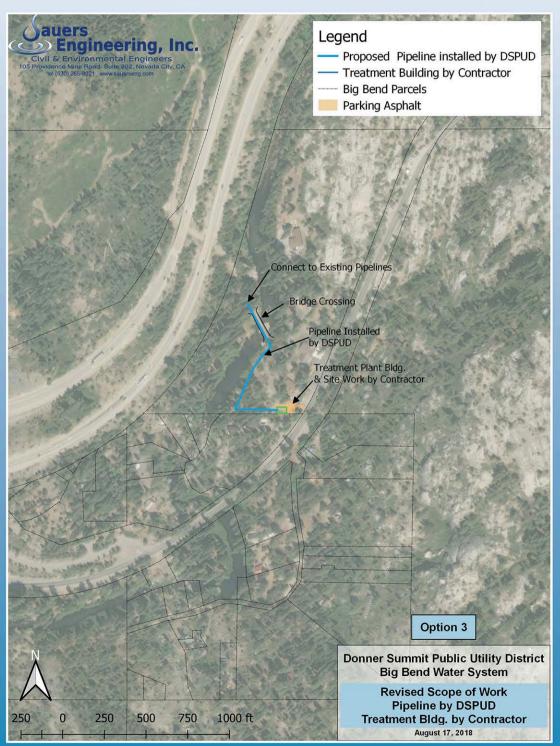


Disini			i 2 ding & Minimal I ticipation)	Pipeline		
DSPUE	Big Bend	Water S	ystem Impro	vements		
	Preliminary	Constru	iction Estimat	e		
August 17, 2018	, ,			*		
Item	Quantity	Units	Materials	Labor	Extension	Category
Mobilization	1	Ls.	\$40,000		\$40,000	
Clearing & Grubbing	11.s.		\$0	\$5,000		
and an arrang	11.0.			,	→	\$45,000.00
Treatment Building and Site Work						4.0,000.00
Site Grading	1 l.s.		\$0	\$8,000	\$8,000	
Slab/Foundation		250 sq ft		\$20		
Wood frame building	250 sq ft		\$20 \$80	\$80		
Gravel Parking and Access	3000		\$1	S2		
Electrical Service	1 l.s.		\$12,000	•	\$12,000	
Building Electrical	11.s.		\$15,000	\$15,000		
	11.0.			,	→	\$109,000.00
Treatment System (No Filtration)						19199)19101
Chemical Feed System	1	ea.	\$2,500	\$1,000	\$3,500	
Flow Meter/Misc. Plumbing	1	ea	\$2,500	\$1,000		
Contact Pipeline	200	l.f.	\$30	\$50		
Chlorine Residual Analyzer		ea	\$6,000	\$3,000	7 (28000)	
Data Logger/Controller	1	ea	\$4,000	\$4,000	30/3/47 0001	
Autodialer	1	1 ea		\$2,500		
Misc. Instrumentation/Control Wiring	1	ea	\$4,000 \$10,000	\$10,000	The second secon	
		100			→	\$66,500.00
Pipelines						
2" Raw Water Transmission	700	l.f.	\$10	\$50	\$42,000	
4" Treated Water Transmission	700	l.f.	\$20	\$50	\$49,000	
Communication Conduit	700	l.f.	\$5	\$25		
USFS Bridge Crossing	11.s.		\$10,000	\$15,000		
				101,08200	-	\$137,000.00
Miscellaneous						ALC: NO.
Rock Excavation	1	l.s.		\$20,000	\$20,000	
				1000	-	\$20,000.00
						720,1310
					ction Subtotal=	\$377,500.00
15% Contingency=						
				Cons	struction Total=	\$434,125.00
Plannin	ng/Design/Envi	ronmenta	Permitting to D	ate (80% fun	ded by grant)=	\$111,223.00
	The state of the s		Inspection/0	Construction	Management=	\$20,000.00
			HEC	Loan/Grant	Coordination=	\$10,000.00
			T	otal Project C	Cost Estimate=	\$575,348.00



Big Bend Water System Improvements





Option 3 Disinfection Only, New Building & Minimal Pipeline (District Participation in Pipeline)									
DSPUD	Big Bend V	Vater Sy	stem Improv	ements					
	Preliminary (Constru	ction Estimate						
August 17, 2018	Quantity	Units	Materials	Labor	Extension	Category			
Mobilization		l.s.	\$36,000	Labor	\$36,000				
Clearing & Grubbing		l.s.	\$0	\$5,000	\$5,000				
Cicaing & Ciabbing	11.3.		40	45,000	ψ5,000	\$41,000.00			
Treatment Building and Site Work						Ψ+1,000.00			
Site Grading	14	I.s.	\$0	\$8,000	\$8,000				
Slab/Foundation	250 sq ft		\$20	\$20					
Wood frame building		sq ft	\$80	\$80					
Gravel Parking and Access		sq ft	\$1	\$2	47 (2) (4) (4) (5) (4)				
Electrical Service	-1	l.s.	\$12,000		\$12,000				
Building Electrical	1	I.s.	\$15,000	\$15,000					
(C)			2 22	1. 99		\$109,000.00			
Treatment System (No Filtration)									
Chemical Feed System	1	ea.	\$2,500	\$1,000	\$3,500				
Flow Meter/Misc. Plumbing	1 ea		\$2,500	\$1,000	\$3,500				
Contact Pipeline	200 l.f.		\$30	\$50	\$16,000				
Chlorine Residual Analyzer	1	ea	\$6,000	\$3,000	\$9,000				
Data Logger/Controller	1	ea	\$4,000	\$4,000	\$8,000				
Autodialer	1 ea		\$4,000	\$2,500	\$6,500				
Misc. Instrumentation/Control Wiring	1 ea		\$10,000	\$10,000	\$20,000				
						\$66,500.00			
<u>Pipelines</u>			- Contract						
2" Raw Water Transmission	700 l.f.		\$10	\$0					
4" Treated Water Transmission	700 l.f.		\$20	\$0					
Communication Conduit	700 I.f.		\$5	\$0					
USFS Bridge Crossing	1 l.s.		\$10,000	\$0					
N					\rightarrow	\$34,500.00			
Miscellaneous Rock Excavation	19	I.s.		\$20,000	\$20,000				
ROCK Excavation	- 1	1.8.		\$20,000	\$20,000	\$20,000.00			
Plannin	ing/Design/Environ	ronments	J Permitting to D	15% Cons	tion Subtotal= Contingency= truction Total=	\$271,000.0 \$40,650.0 \$311,650.0			
Planning/Design/Environmental Permitting to Date (80% funded by grant)= Inspection/Construction Management									
					Coordination=				
				otal Project C					