

ITEM	DESCRIPTION	COSTS
1	Mobilization	\$575,000
2	General Conditions	\$1,480,000
3	Design & Construction Engineering Services	\$3,850,000
4	Surveying	\$110,000
5	Railroad Insurance/Flagging & Improvements	\$350,000
6	Material Storage & Handling	\$700,000
7	Pump Station Laydown	\$35,000
8	Clearing for UG Electric Across Brema Road	\$7,000
9	Existing Utility Protection & Potholing	\$75,000
10	Erosion Controls	\$475,000
11	Wetland and Sensitive Area Restoration	\$85,000
12	Temporary Construction Roads & Clearing	\$150,000
13	Pump Station Site Access Road	\$1,110,000
14	Site Access Road Storm Improvements	\$220,000
15	Pump Station Site Work	\$2,035,000
16	Pump Station Work	
16a	General Conditions	\$700,000
16b	Concrete + Structural	\$2,900,000
16c	Metals	\$880,000
16d	Equipment	\$1,500,000
16e	Mechanical	\$1,060,000
16f	Electrical	\$3,600,000
16g	Controls	\$410,000
17	Furnish & Install Porta Dam	\$715,000
18	Intake Pipe Work	\$585,000
19	Intake Structure	\$850,000
20	Build Access Road Down Ramp Into River	\$30,000
21	Restore Bank of James River with Class 2 Rip Rap	\$175,000
22	Dewater Swale Between Pump Station & Swale	\$30,000
23	24" Raw Water Line	\$9,800,000
24	Water Line Appurtenances	\$2,080,000
25	Water Line Testing	\$200,000
26	Rail Road & Electrical Jack & Bore	\$500,000
27	Jack & Bore Electrical Under Brema Road (Now Open Cut)	\$55,000
28	Route 6 Jack & Bore	\$170,000
29	Jack and Bore at 127+00 Brema Road (Now Open Cut)	\$70,000
30	Jack and Bore at 133+00 Gale Hill Road (Now Open Cut)	\$110,000
31	Rivanna Crossing- Open Cut	\$960,000
32	Rock Blasting & Removal	\$370,000
33	Site & Easement Restoration	\$460,000
34	QC testing	\$185,000
35	SWPP Development & Inspections	\$35,850
TOTAL CONSTRUCTION COSTS		\$39,687,850.00

Cultural Resource Consultants - GAI (Through Mar. 2024)	\$50,000
CR Fieldwork & Study- PH III	\$3,000,000
MOA Costs - Aqualaw (Through Dec. 2023)	\$27,500
Construction Insp./Project Mgmt. Consultant (30 months) -MBP	\$700,000
Dominion Energy Electric Construction	\$1,000,000
Wetland Mitigation Credits	\$5,000
CSX Encroachment Agreement	\$7,500
USACE Permit	\$100
Nutrient Credits	\$100,000
Property Acquisition/Easements	\$1,000,000
Survey and Environmental Support - Timmons (Through Dec. 2023)	\$32,700
TOTAL PERMITTING, PROPERTY ACQ. AND CONST. SUPPORT COSTS	\$5,922,800.00
TOTAL JRWA PROJECT COSTS	
	\$45,610,650.00