



City Of  
**BOONVILLE**

*City of Boonville*

***City Council Work Session Agenda***

**January 20, 2026**

**6:00 PM**

**City Council Chambers**

**525 E. Spring Street**

**Boonville MO 65233**

**I. Work Session Topics**

- A. Tourism, Water Plant, and Wastewater Plant Budget**

**NOTICE:** The City of Boonville will comply with the Americans with Disabilities Act (ADA). Individuals who require an accommodation due to disability to attend this meeting should contact our office at (660) 882-2332 or Relay Missouri, 1-800-735-2966 TTY at least 48 hours in advance.



January 9, 2026

To: Mayor and City Council

From: Kate Fjell, City Administrator

Re: Budget Work Session: Tourism, Water Treatment, and Wastewater Treatment Plant

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We will begin the work session at 6:00pm and we will provide dinner for Council members and staff.

### **Tourism**

We will kick off with a short discussion of the tourism budget. Tourism is self-funded through the bed tax and continues to grow incrementally. Hopefully, we will be able to attract a new hotel to the community which would help improve the bed tax. I think in this coming fiscal year, we will also be investigating what needs to be done to address the growing VRBOs in our community; this may include some zoning changes as well as working to have them pay the bed tax.

### **Water and Sewer Treatment Plants (Alliance)**

This will likely be the most technical of all the budget work sessions as we will be discussing the water and wastewater treatment plant operations and capital projects. Kevin McKee with Alliance will be at the meeting and on hand to walk us through the capital project and to update us on the operations of plant.

I am trying to rework the budget for both plants in their respective funds. I am moving more of the capital projects specific to the plants out of the generic "capital projects" budget (06-607/08-808) and into the specific plant budget itself (WTP- 06-603/ WWTP 08-803). The one caveat to this is the pump station pump purchase and repair is staying in the WW capital projects. I am hoping by moving the capital to the plant specific budget it will give us a truer picture of cost of operating the plants. Additionally, this year the only budget item to go into "other contractual services" will be the Alliance contract line item. All other contracts will be put under maintenance agreements- as they are annual contracts for generators, water towers. SCADA systems, etc.

I have not yet worked on the other water and sewer budgets and therefore do not have a rate recommendation yet. However as we discussed at the last Council meeting, there are signs of growth in the community which are good for these (and sanitation) enterprise accounts.

During tonight's meeting, we will be discussing the projects slated for this year, as well as discussing some of the larger scale projects that need to be planned for in the coming years. This past year we had Mecos do a couple of reports for us in several areas. First, is the next round of I/I repairs necessary around the City. We have been paying for these projects, primarily pipelining and manhole lining or replacement out of the sewer account, as the I/I problems impact the sewer system and can cause a Sanitary Sewer Overflow (SSO) event which must be reported to DNR. Additionally, the Parks and Stormwater Sales Tax can also provide funding for these projects. The second study was a comprehensive list of repairs necessary at the water treatment plant. There are essentially three components, high/medium/low priority projects at the plant and then also a discussion of the raw water intake project.

We have begun work on some of the high priority projects already this year. However, there are two projects in particular that are quite large and expensive, that I believe we need to start saving for, with an aim of doing in 5 years.

The first is the raw water intake project. As a quick recap, the raw water intake is the location of the pipes that take in the Missouri River Water that is sent to the treatment plant which is processed and then put into the City's distribution system. This water intake system has two issues: first routine maintenance such as screen cleaning is very difficult and second, improvements made in the past have brought one of the intake pipes to a shallower area which could compromise our water supply if there are low flows in the Missouri River. Meco has provided three options for us. The first option is the lowest cost, but it is really a band-aid solution, so I do not think it is work consideration. Second, is to move the screens to a deeper section and completely put in new intake pipe encased in concrete. This option addresses the low water flow concern but does not address the routine maintenance. The City would have to utilize divers to clean the screens and conduct other maintenance. This project is estimated at \$978,000. The third project would again include all new pipes and screens but also the construction of a crane and support structure that would allow for routine maintenance of the intake pipes. The cost of this project is \$1,910,650 plus professional services.

The second larger and important project related to the water treatment plant is changing from a gas chlorination to a salt chlorination process. This would provide a much safer environment for the operation of the treatment facility. This involves permit changes that would need to be approved as well. The estimated cost is \$500,000 plus professional services.

These projects are in addition to any water and sewer line replacement lines that we would plan (similar to the 4<sup>th</sup>, South, Reams project). You will see that I have planned to put some money in the coming year budget for Meco to identify and draw up plans for the next replacements repairs. Depending on projects the City decides to address at the plant will help determine the available funds for the replacement project in the distribution lines in the coming years.

It may also be worth considering some debt service to pay for some of these large projects, depending on interest rates, once we have paid off some of the outstanding debt at the City.

FY 2025-2026 BUDGET				8	
			BUDGET	PROJECTED	BUDGET
			FY	FY	FY
			2025-26	2025-26	2026-27
<b>Wastewater Fund - 08-000</b>					
64404	Miscellaneous		\$0	\$100,000	
64504	Interest		65,000	75,000	
68114	Sewer User Charges		3,120,000	3,200,000	
68204	Materials & Serv. Sold		0	0	
68304	Turn On/Services		3,500	0	
68604	Transfer From Other Funds		0	0	
	Total		\$3,188,500	\$3,375,000	\$0
<b>Tourism Tax -16-000</b>					
64014	Tourism Tax or was 16-6440		255,000	265,000	267,000
64404	Miscellaneous was 16-6641		500	500	500
64444	Sale of Merchandise		26,500	26,500	28,000
64534	Interest		8,450	12,000	8,500
65404	Admittance Fees		3,000	3,000	3,000
66434	Rentals		500	100	100
66454	Grants		20,000	15,000	15,000
68504	Transfer From Other Funds		0	0	
	Total		\$313,950	\$322,100	\$322,100
<b>Gaming Revenue - 17-000</b>					
64504	Interest		\$25,000	\$50,000	\$30,000
66614	Gaming Tax		1,800,000	1,850,000	1,825,000
66624	Admissions Tax		1,150,000	1,150,000	1,150,000
	Total		\$2,975,000	\$3,050,000	\$3,005,000
<b>Parks-Stormwater Sales Tax - 20-000</b>					
64004	Half Cent Sales Tax		\$850,000	\$915,000	
64054	Use Tax		\$0	\$0	
64404	Miscellaneous		0	1,200	
64504	Interest		20,000	35,000	
65004	Mo Soccer Park Rentals		40,000	55,000	
68504	Transfer From Other Funds		0	0	
	Total		\$910,000	\$1,006,200	\$0



32585	<b>GRANT FUNDING</b>	#####	<b>\$ 20,000.00</b>
	Event Grants	TBD	TBD
	Sports Tournaments	TBD	TBD
	Unencumbered Grants	#####	<b>\$ 20,000.00</b>
	<b>Total</b>	<b>#####</b>	<b>\$ 20,000.00</b>

16-501 Expense total-

TOURISM

**DETAILED BREAKDOWN**

	<b>COMMODITIES / CONTRACTUAL</b>	<b>FY25-26</b>	<b>FY26-27</b>
2010	<b>Advertising</b>	<b>\$53,000</b>	<b>\$60,000</b>
	Madden - State Ads	\$15,000	\$15,000
	Porlier - Billboards	\$14,000	\$14,000
	Missouri Life	\$10,000	\$15,000
	CTM Brochure	\$2,000	\$2,000
	Lewis & Clark Brochures	\$1,500	\$1,500
	Boonslick Guides	\$1,000	\$1,000
	Katy Trail Ads	\$4,000	\$4,000
	Online- Social Media	\$3,500	\$5,000
	Misc.	\$2,000	\$2,500
2420	<b>Special Events /Projects</b>	<b>\$25,000</b>	<b>\$25,000</b>
	Downtown Christmas Decorations	\$4,000	\$4,000
	Christmas Festival	\$2,000	\$2,000
	BACC Marketing Promotion	\$1,000	\$1,000
	Halloween Events	\$3,000	\$3,000
	World Cup event/ promotions	\$10,000	\$10,000
	America 250 promotions	\$5,000	\$5,000
	<b>GRANT FUNDING</b>	<b>\$20,000</b>	<b>\$20,000</b>
	<b>Event Grants</b>	<i>aprox. \$12,000</i>	<i>aprox. \$12,000</i>
	FOHB- Big Muddy Folk Festival	TBD	TBD
	FOHB - Festival of the Arts	TBD	TBD
	CC Youth Fair	TBD	TBD
	<b>Sports Tournaments</b>	<i>aprox. \$8,000</i>	<i>aprox. \$8,000</i>
	Babe Ruth - 15 yr	TBD	TBD
	Cleats & Beats (BSA soccer)	TBD	TBD
	<b>Unencumbered Grants</b>	<b>\$20,000</b>	<b>\$20,000</b>
	Cal Ripken Tournament	TBD	TBD
		TBD	TBD

FUND			FY 2025-2026 BUDGET		48
<b>WATER WORKS</b>			DEPARTMENT		
06-603			<b>WATER TREATMENT PLANT</b>		
				Budget	Projected
				FY	FY
Code #	<u>PERSONNEL SERVICES</u>			2025-26	2025-26
				<b>N/A</b>	<b>N/A</b>
		Subtotal		\$0	\$0
	<u>NON-PERSONNEL</u>				
20205	Electricity/Gas			\$3,000	\$1,500
20305	Postage/Permits			\$0	\$0
20505	Telephone			\$20,000	\$18,000
20605	Operational Supplies			\$0	\$0
20705	Miscellaneous			\$0	\$0
23705	Power Costs/Pumping			\$122,000	\$140,000
24005	First Aid/Drug Tests			\$0	\$0
24605	Building/Grounds Maint.			\$4,000	\$3,500
24705	Auto & Machine Maint.			\$0	\$0
24905	Other Equipment Maint.			\$0	\$0
25105	Pumping & Treatment Maint.			\$0	\$0
30305	General Insurance			\$45,000	\$50,000
31205	Maintenance Agreements			\$152,000	\$45,000
31605	Permits/Fees			\$0	\$25,000
32105	Other Contractual Services			\$1,200,000	\$1,200,000
		Subtotal		\$1,546,000	\$1,483,000
	<u>CAPITAL OUTLAY</u>				
40205	Other Capital Outlay			\$0	\$37,950
40905	Pumping/Treatment Improve.			\$0	\$101,900
		Subtotal		\$0	\$0
		Grand Total		\$1,546,000	\$1,483,000
					\$1,742,350

FUND	FY 2025-2026 BUDGET			58	
WASTEWATER	DEPARTMENT				
08-805	WASTEWATER TREATMENT				
			Budget FY 2025-26	Projected FY 2025-26	Budget FY 2026-27
Code #	<u>PERSONNEL SERVICES</u>				
10005	Salaries				
10105	Overtime				
10155	On Call				
10205	FICA				
10305	Health Insurance				
10405	Awards				
10605	Retirement (LAGERS)				
10805	Workmen's Comp. Ins.				
	Subtotal		\$0	\$0	\$0
	<u>NON-PERSONNEL</u>				
20105	Advertising		\$0	\$0	\$0
20205	Electricity/Gas		\$130,000	\$125,000	\$130,000
20305	Postage/Permits		\$300	\$0	\$300
20505	Telephone		\$7,200	\$720	\$7,200
20605	Operational Supplies		\$0	\$0	\$0
20705	Miscellaneous		\$0	\$0	\$0
20805	Safety Equipment		\$0	\$0	\$0
20905	Tires		\$0	\$0	\$0
21105	Motor Fuel/Lubrication		\$0	\$0	\$0
21305	License Expense		\$0	\$0	\$0
21605	Janitorial Supplies		\$0	\$0	\$0
21905	Clothing & Uniforms		\$0	\$0	\$0
22205	Chemicals		\$0	\$0	\$0
22305	Small Tools & Equipment		\$0	\$0	\$0
22505	Street Materials		\$0	\$0	\$0
23405	Office Supplies		\$0	\$0	\$0
24005	First Aid/Drug Tests		\$0	\$0	\$0
24605	Building/Grounds Maint.		\$0	\$0	\$0
24705	Auto/Machine Maint.		\$0	\$0	\$0
24905	Other Equipment Maint.		\$0	\$0	\$0
25405	Sewerage Treat. Plant Maint.		\$0	\$0	\$0
30205	Dues & Publication		\$0	\$0	\$0
30305	Insurance		\$47,000		\$55,000
30405	Equipment Rental		\$0	\$0	\$0
30605	Professional Services		\$5,000	\$0	\$5,000
31205	Maintenance Agreements		\$9,000	\$1,100	\$9,000
31405	Chemical Analysis		\$0	\$0	\$0
31505	Meetings & Conferences		\$0	\$0	\$0
31605	Permits/Fees		\$20,000	\$5,500	\$20,000
31905	Training & Education		\$0	\$0	\$0
32105	Other Contractual Services		\$815,000	\$815,000	\$875,000
	Subtotal		\$1,033,500	\$947,320	\$1,101,500
	<u>CAPITAL OUTLAY</u>				
40105	Machine/Auto Equipment		\$0	\$0	
40205	Other Capital Outlay		\$5,000	\$2,000	
40805	Lift Station Maintenance		\$60,000	\$10,000	\$60,000
41205	Treatment Plant Improv.		\$0		\$90,000
	Subtotal		\$65,000	\$12,000	\$150,000
	Grand Total		\$1,098,500	\$959,320	\$1,251,500



**FY 26-27 Capital Projects related to WTP and WWTP**

06- Water- WTP Related Projects				Notes/Updates
	06-03-31205	\$120,000	USG Water Towers Maintenance	
	06-03-31205	\$27,000	Hach Maintenance Agreement	Turbidity meters, lab equipment,
	06-01-30605	\$25,000	GeoSyntec WTP Permitting	
	06-603-40205	\$14,000	Pump Inspection	Pull and check transfer pumps
	06-603-40905	\$25,400	Booster Pump #1 VFD	Variable Frequency Drive being replaced.
	066-603-40205	\$3100	Turbidimeter/Controller	2 new ones DNR recommendation and part of plan for 5 year-10 year.
	06-603-40205	\$18,800	Flow Meter	Old one broke
	06-603-40905	\$6500	Gearbox, WTP Mixer Flocculator	Old one outdated. No parts to repair
	06-603-40205	\$2050	Chemical Double Wall Tanks	Recommendation from DNR after inspection and part of plan for 5 year-10 year.
	06-603-24605	\$9000	Lights in Basin Building	Will work with Ameren to see if this is eligible for some EE rebate
	06-603-40905	\$70,000	Filter Valve Install	Prolonging the filter replacement and part of plan for 5 year-10 year.
			Roadway Paving to Pump House	Trying to determine the best solution, this is not a public street
		\$320,850		

\*\* Hach, Utility Services, Cummins, etc all coded to 3120 MAINTENANCE AGREEMENTS not 3210 Other Contractual Services. Only Alliance should be in 3210 for water and wastewater treatment plants

06- Water- Capital Projects				Notes/Updates
		\$9000	Keyed Entry	
			Meters- Split	
			Exercise Valve- Replacement	
			GIS Work	

		\$625,000	Water and Sewer Repairs	\$1,250,000 (Estimate) total projects remaining split with sewer
		\$50,000		Phase 2 water and Sewer upgrade plan development- design and bid docs.
<b>TOTAL</b>				

08- Wastewater- WWTP Related Projects				Notes/Updates
	08-803-31205	\$8000	Hach Service Agreement	Lab equipment
	08-808-40805	\$60,000	Lift Station Pump (backup)	Back up and extra's
	08-803-41205	\$80,000	DO& ORP probes-Orbal to SCADA	Compliance requirement, total project cost is \$240,000 for 12 new probes (\$20,000/probe) plan to do 4 a year. Compliance requirement is not until 2033.
	08-808-40805	\$60,000	Lift Station Pump/Maintenance	Emergency or unplanned repairs for the year
	08-803-41205	\$6200	Secondary Containment Weight	DNR requirement in case of spills
	08-808-40805	\$8900	Logans Lake Lift Station Repair	
	08-808-41735		Industrial Lift Station Drive Paving	This is optional for now and this is a private drive, not a requirement
<b>TOTAL</b>		<b>\$223,100</b>		

08- Wastewater- Capital Projects				Notes/Updates
		\$9000	Keyed Entry	
		\$625,000	Water and Sewer Repairs	\$1,250,000 (Estimate) total projects remaining split with sewer
			Meters-Split	
			GIS – split	
			I&I project	
		\$50,000	Prof. Services for Phase 2 water and sewer repair	Phase 2 water and Sewer upgrade plan development- design and bid docs.
<b>TOTAL</b>				





# Engineering Report

Rehab Existing Raw Water Intake  
for  
Boonville, Missouri

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City Administrator  
Kate Fjell  
Boonville, MO 65026  
(660) 882-2332



COOPER COUNTY MISSOURI

MECO PROJECT NO. 454-291.002

October 2024

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# INTRODUCTION

## Purpose of Project

The work proposed for the City of Boonville’s rehab of the raw water intake system includes an upgrade to the raw water intake structure located in the Missouri River as well as the piping up to the raw water pumping station. The project will upgrade the existing raw water intake system that is degrading and at times draws in water due to holes forming in the raw water piping. The actual intake structure in the river does not allow for easy maintenance and cleaning and has had improvements in the past that brought one of the intake structures into shallower water making that screen unusable during low flow conditions.

## Background

The City of Boonville, Missouri is located beside the Missouri River in Central Missouri, approximately 26 miles west of Columbia, Missouri along Interstate 70. The city derives its name from Nathan and Daniel Morgan Boone, sons of Daniel Boone, where they established their salt business in the early 1800s. Boonville is the county seat of Cooper County with a population of 8319 based on the 2010 census.

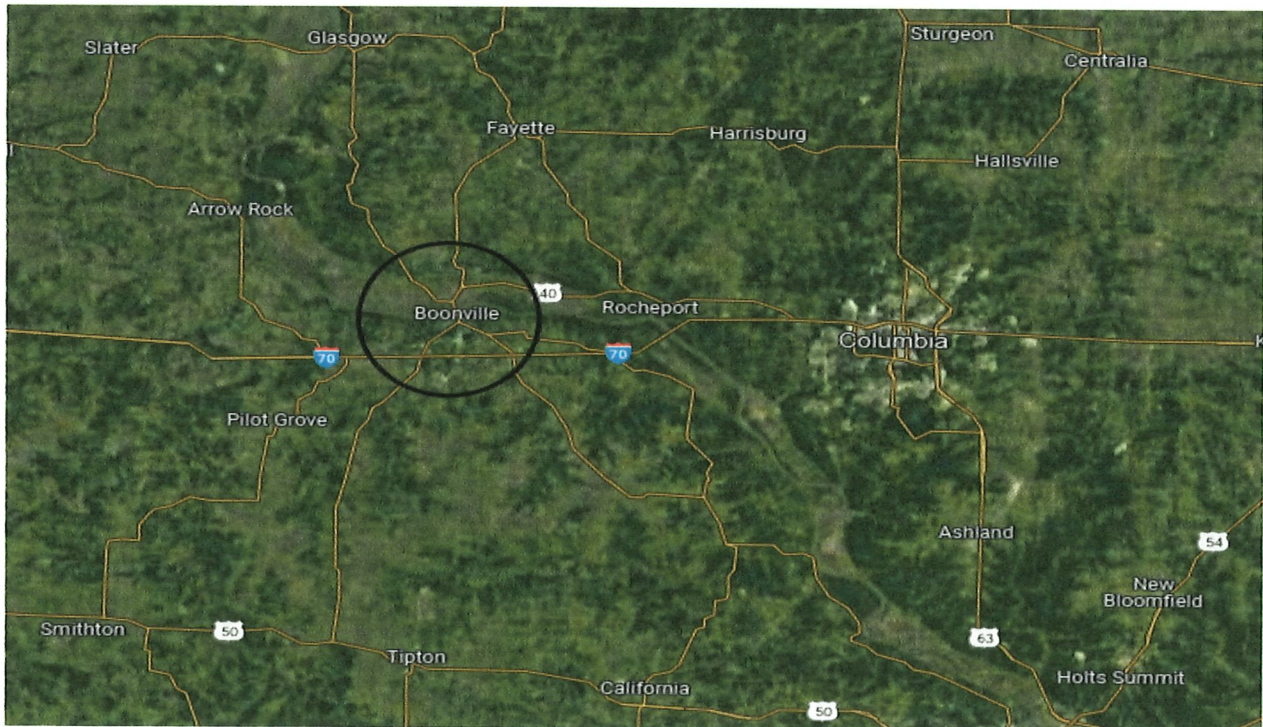


Figure 1

## **Description of Existing System**

According to the Missouri Department of Natural Resource's 2022 Census of Missouri Public Water Systems, the city's water system was established in 1880. The water system receives 100% of its water from surface water and has a total supply capacity of approximately 4.07 million gallons (MG) and a finished water storage capacity of 3.28 MG. The system requires an operator with an "A" license and serves a population of 8319 people and has 3175 water service connections with an average daily consumption of 1.125 million gallons per day (MPG). In addition to serving the City of Boonville, the water system also sells water to the Cooper County Consolidated PWSD #1.

## **Need for Project**

The work at the raw water intake structure is needed to provide reliable continuous drinking water to the City of Boonville and all its customers. Currently the intake structure and piping has degraded to a point that the water is interrupted on many occasions and will continue to degrade and increase the times of water shortages/outages.

The City needs a new intake system to be able to provide the needed potable water at the various conditions of river level.

## **PLANNING AND SERVICE AREA**

### **Existing & Potential Service Area**

The City's Water Treatment Plant is located in the northwest corner of the City near the Missouri River. This project is not intended to increase the existing service area but will ensure the City has the needed supply on a consistent basis.

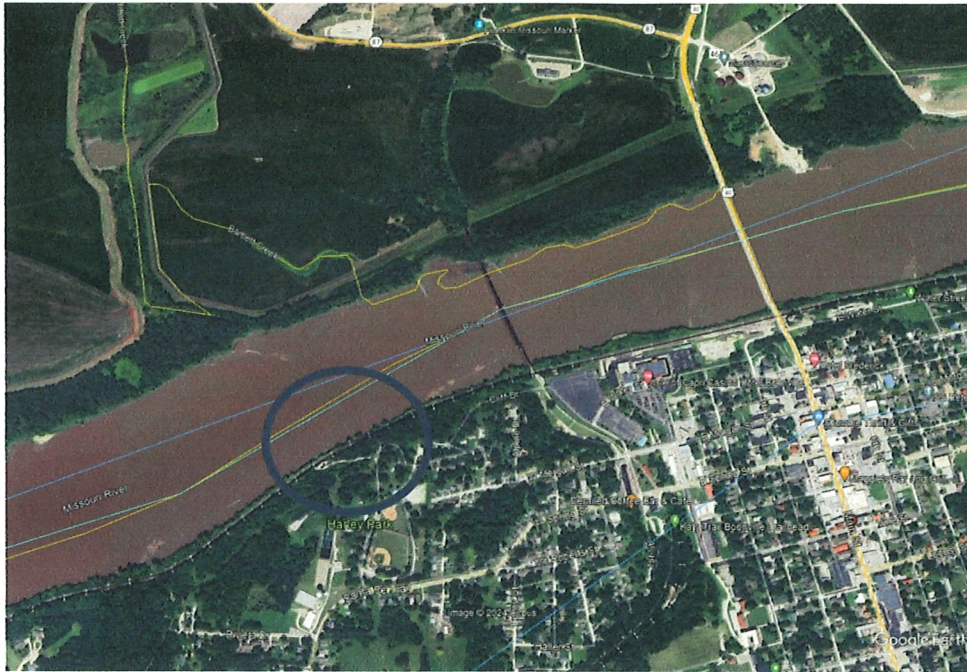


Figure 1- Project Location

## PROJECT DESCRIPTIONS AND COSTS

### Raw Water Intake Structure Improvements

There are three options chosen for the improvements to the raw water intake system.

See Appendix A for cost estimates of the options and Exhibit A for drawings of the project location and proposed options.

#### Option #1

This option is for the CIPP lining of the existing raw water intake piping. The estimated construction cost for this option is \$373,410. The piping would be inspected and lined with a Cured-In-Place Piping system. After speaking with CIPP lining companies this option is a very risky proposition. The piping will need to be cleaned and may be degraded beyond their capabilities. The actual CIPP lining process will be very difficult due to the piping being located under the Missouri River. This option would also not

change the location of the existing intake structures and would not alleviate the issue of low river levels affecting the ability to draw water from the river.

**Option #2**

This option is for the replacement of the existing intake screens with a similar screening system that the city already uses and all new raw water piping up to the pump building. The estimated construction cost for this option is \$978,850. This project would move both screens to the deeper section of the river allowing for continuous flow even under low river levels. The screens would be two new Johnson 24-inch diameter screen assemblies that are more durable for impact from river debris. The intake piping would be 16-inch ductile iron encased in concrete for protection. This is a good option but does not allow for routine maintenance and cleaning of the screen without great difficulty and the need to hire a diver due to the screens fixed to the river floor structure.

**Option #3 – Engineer’s Recommended Improvements**

This option is for the replacement of the existing intake screens with a robust above water level intake structure with an adjustable intake screen system that can be elevated above the water by an attached crane to be maintained, cleaned and repaired above the water surface. This option also includes all new raw water piping up to the pump building. The estimated construction cost for this option is \$1,910,650. This project would build a concrete structure as shown in the attached drawings that will also move both screens to the deeper section of the river allowing for continuous flow even under low river levels. The screens would be two new Johnson 24-inch diameter screen assemblies that are more durable for impact from river debris. The intake piping would be 16-inch ductile iron encased in concrete for protection. This is the most expensive but the best option that allows for routine maintenance and cleaning of the screen without the need to hire diver to repair, clean and maintain the screens. This option also allows the operator to draw water from various levels of the river where water quality and quantity are the best.

# **Appendix A**

## **Cost Estimates**



# MECO ENGINEERING COMPANY

3120 Palmyra Rd, Hannibal, MO 63401  
 Voice 573-221-4048 Fax 573-221-4377

## PREDICTION OF PROBABLE CONSTRUCTION COSTS

client : City of Boonville, Missouri  
 project : Water Intake Screen Study  
 MECO job number : 454-291.002  
 MECO file name : Projects\454-291.002 BNVL Rehab Existing RWater Intake - Report\ENGR\COPY of 454-291.002 Water Intake Study.xls\OPTION 1  
 date of est.: 10/08/24

OPTION 1 - Rehab Existing Water Intake Piping					
NO.	QTY	UNIT	DESCRIPTION	UNIT COST	TOTAL
<b>Video Services / Install CIPP Lining</b>					
1	1	LS	MOBILIZATION / DEMOBILIZATION	\$35,000.00	\$35,000
2	343	LF	VIDEO INSPECTION OF EAST / WEST INTAKE PIPING	\$120.00	\$41,160
3	1	LS	CIPP LINER EQUIPMENT SET-UP	\$40,000.00	\$40,000
4	343	LF	CIPP LINING INSTALLATION EAST / WEST INTAKE PIPING	\$750.00	\$257,250
5					
6					
7					
8					
9					
<b>Subtotal:</b>					<b>\$373,410</b>
1					
2					
3					
4					
5					
6					
7					
8					
9					
<b>Subtotal:</b>					
1					
2					
3					
4					
5					
<b>Subtotal:</b>					
<b>TOTAL ESTIMATED CONSTRUCTION COST</b>					<b>\$373,410</b>

TOTAL PROJECT COSTS AND CONSTRUCTION COSTS PROVIDED HEREIN ARE MADE ON THE BASIS OF ENGINEER'S EXPERIENCE AND QUALIFICATIONS AND REPRESENT THE ENGINEER'S BEST JUDGEMENT. HOWEVER, THE ENGINEER CANNOT AND DOES NOT GUARANTEE THAT BIDS OF ACTUAL TOTAL PROJECT OR CONSTRUCTION COSTS WILL NOT VARY FROM THE ESTIMATE OF PROBABLE CONSTRUCTION COST. THIS ESTIMATE IS INTENDED TO ASSIST IN BUDGETARY ASSESSMENT AND DOES NOT GUARANTEE THAT ACTUAL PROJECT COSTS WILL NOT EXCEED OR BE LOWER THAN THE AMOUNTS STATED IN THIS ESTIMATE.



# MECO ENGINEERING COMPANY

3120 Palmyra Rd, Hannibal, MO 63401  
 Voice 573-221-4048 Fax 573-221-4377

## PREDICTION OF PROBABLE CONSTRUCTION COSTS

client : City of Boonville, Missouri  
 project : Water Intake Screen Study  
 MECO job number : 454-291.002  
 MECO file name : Projects\454-291.002 BNVL Rehab Existing RWater Intake - Report\ENGR\COPY of 454-291.002 Water Intake Study.xls\OPTION 2  
 date of est.: 10/08/24

OPTION 2 - Replace Intake screens and East / West Intake Piping					
NO.	QTY	UNIT	DESCRIPTION	UNIT COST	TOTAL
<b>Existing Intake Screens / Piping Demolition</b>					
1	20	DAY	TUGBOAT / CREW	\$3,000.00	\$60,000
2	20	DAY	CRANE / CREW	\$4,000.00	\$80,000
3	20	DAY	BARGE	\$2,500.00	\$50,000
4	1	LS	MOBILIZATION / DEMOBILIZATION	\$40,000.00	\$40,000
5	198	LF	16.00 INCH D.I. PIPING DEMO	\$350.00	\$69,300
6	145	LF	16.00 INCH D.I. PIPING DEMO INSIDE TUNNEL	\$100.00	\$14,500
7	1	LS	SCREEN SUPPORT STRUCTURE DEMO UNDER WATER	\$35,000.00	\$35,000
8	2	CY	CONCRETE TUNNEL WALL DEMO	\$3,000.00	\$6,000
9					
<b>Subtotal:</b>					<b>\$354,800</b>
<b>New Intake Screens / Piping Installation</b>					
1	2	EA	24.00 INCH S.S. JOHNSON SCREEN ASSEMBLYS	\$50,000.00	\$100,000
2	1	LS	NEW SCREEN SUPPORT STRUCTURE	\$150,000.00	\$150,000
3	403	LF	16.00 INCH D.I. INTAKE PIPING INSTALLATION	\$350.00	\$141,050
4	4	EA	PIPE SUPPORT ANCHORS	\$5,000.00	\$20,000
5	200	TON	RIP RAP LINER PROTECTION	\$600.00	\$120,000
6	12	CY	PUMPED CONCRETE WALLS / PIPE SUPPORTS	\$1,500.00	\$18,000
7	30	CY	PUMPED CONCRETE ENCASMENT	\$1,500.00	\$45,000
8	2	EA	16.00 INCH FULL BODY B'FLY VALVES	\$15,000.00	\$30,000
9					
<b>Subtotal:</b>					<b>\$624,050</b>
1					
2					
3					
4					
5					
6					
<b>Subtotal:</b>					
<b>TOTAL ESTIMATED CONSTRUCTION COST</b>					<b>\$978,850</b>

TOTAL PROJECT COSTS AND CONSTRUCTION COSTS PROVIDED HEREIN ARE MADE ON THE BASIS OF ENGINEER'S EXPERIENCE AND QUALIFICATIONS AND REPRESENT THE ENGINEER'S BEST JUDGEMENT. HOWEVER, THE ENGINEER CANNOT AND DOES NOT GUARANTEE THAT BIDS OF ACTUAL TOTAL PROJECT OR CONSTRUCTION COSTS WILL NOT VARY FROM THE ESTIMATE OF PROBABLE CONSTRUCTION COST. THIS ESTIMATE IS INTENDED TO ASSIST IN BUDGETARY ASSESSMENT AND DOES NOT GUARANTEE THAT ACTUAL PROJECT COSTS WILL NOT EXCEED OR BE LOWER THAN THE AMOUNTS STATED IN THIS ESTIMATE.



# MECO ENGINEERING COMPANY

3120 Palmyra Rd, Hannibal, MO 63401  
 Voice 573-221-4048 Fax 573-221-4377

## PREDICTION OF PROBABLE CONSTRUCTION COSTS

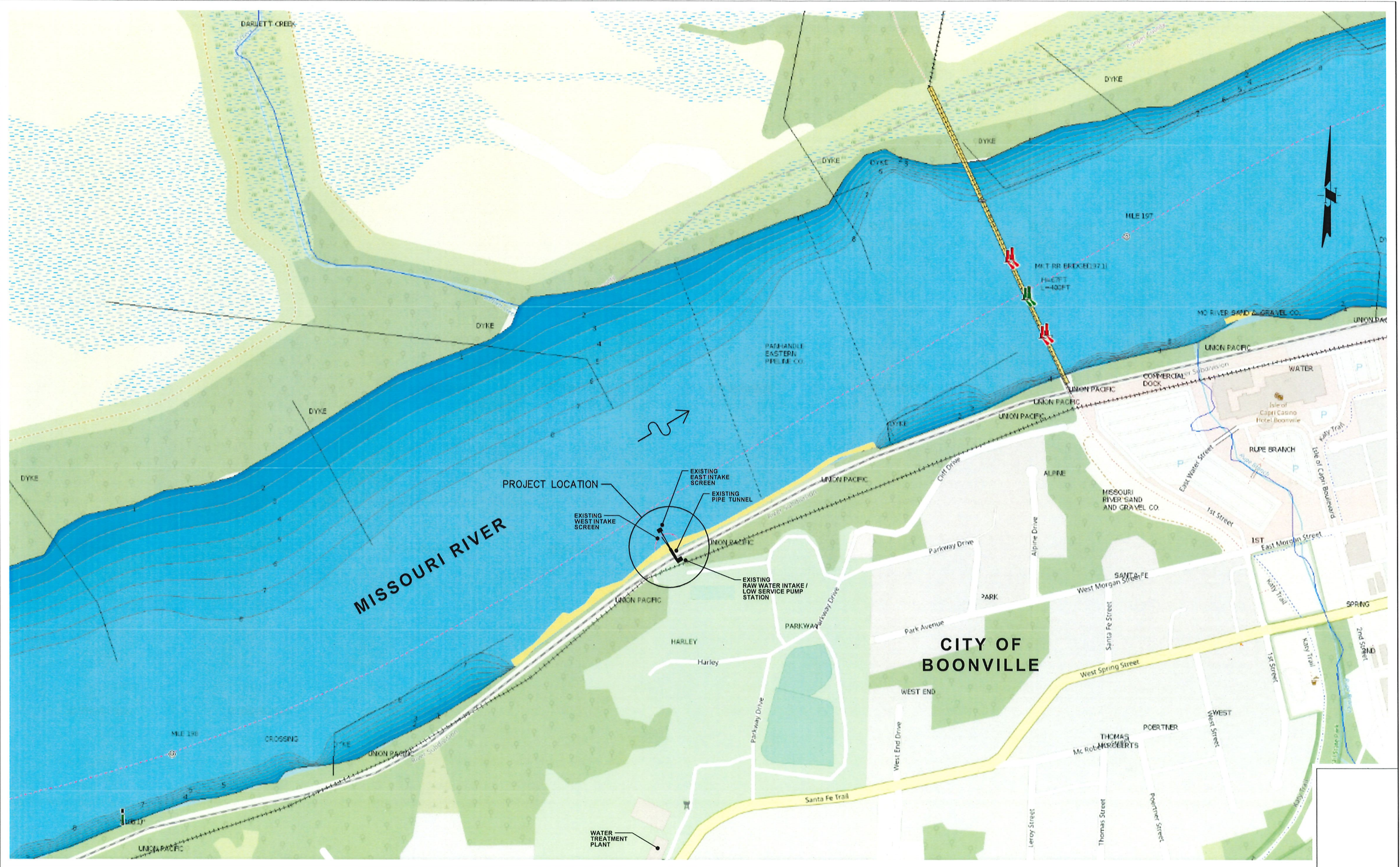
client : City of Boonville, Missouri  
 project : Water Intake Screen Study  
 MECO job number : 454-291.002  
 MECO file name : Projects\454-291.002 BNVL Rehab Existing RWater Intake - Report\ENGR\COPY of 454-291.002 Water Intake Study.xls\OPTION 3  
 date of est.: 10/08/24

<b>OPTION 3 - New Intake Structure With Adjustable Screens</b>					
NO.	QTY	UNIT	DESCRIPTION	UNIT COST	TOTAL
<b>Existing Intake screens / Piping Demolition</b>					
1	60	DAY	TUGBOAT / CREW	\$3,000.00	\$180,000
2	60	DAY	CRANE / CREW	\$4,000.00	\$240,000
3	60	DAY	BARGE	\$2,500.00	\$150,000
4	1	LS	MOBILIZATION / DEMOBILIZATION	\$40,000.00	\$40,000
5	198	LF	16.00 INCH D.I. PIPING DEMO	\$350.00	\$69,300
6	145	LF	16.00 INCH D.I. PIPING DEMO INSIDE TUNNEL	\$100.00	\$14,500
7	1	LS	SCREEN SUPPORT STRUCTURE DEMO	\$35,000.00	\$35,000
8	2	CY	CONCRETE TUNNEL WALL DEMO	\$3,000.00	\$6,000
9					
<b>Subtotal:</b>					<b>\$734,800</b>
<b>New Intake Structure / Adjustable Screens / Piping Installation</b>					
1	28	LF	ACCESS LADDER WITH SAFETY CLIMB DEVICE	\$300.00	\$8,400
2	48	LF	HANDRAIL ASSEMBLY WITH TOEBOARDS	\$250.00	\$12,000
3	2	EA	MANUAL OPERATED S.S. DAVIT CRANES	\$15,000.00	\$30,000
4	2	EA	24.00 INCH S.S. INTAKE SCREEN ASSEMBLY	\$50,000.00	\$100,000
5	2	EA	16.00 INCH MARINE GRADE SWIVEL ASSEMBLY	\$12,000.00	\$24,000
6	377	LF	16.00 INCH D.I. INTAKE PIPING	\$350.00	\$131,950
7	4	EA	16.00 INCH ELBOWS	\$6,000.00	\$24,000
8	2	EA	PIPE SUPPORT ANCHORS	\$5,000.00	\$10,000
9	200	TON	RIP RAP PROTECTION LINER	\$600.00	\$120,000
	12	CY	PUMPED CONCRETE WALLS / PIPE SUPPORTS	\$1,500.00	\$18,000
<b>Subtotal:</b>					<b>\$478,350</b>
1	30	CY	PUMPED CONCRETE ENCASEMENT	\$1,500.00	\$45,000
2	2	EA	16.00 INCH FULL BODY B'FLY VALVES	\$15,000.00	\$30,000
3	113	CY	PUMPED CONCRETE WALLS / TOP SLAB	\$1,500.00	\$169,500
4	200	LF	STEEL SHEET PILING	\$2,000.00	\$400,000
5	300	CY	COMPACTED GRANULAR FILL MATERIAL	\$150.00	\$45,000
6	2	EA	S.S. SCREEN SUPPORT SHOES	\$4,000.00	\$8,000
<b>Subtotal:</b>					<b>\$697,500</b>
<b>TOTAL ESTIMATED CONSTRUCTION COST</b>					<b>\$1,910,650</b>

TOTAL PROJECT COSTS AND CONSTRUCTION COSTS PROVIDED HEREIN ARE MADE ON THE BASIS OF ENGINEER'S EXPERIENCE AND QUALIFICATIONS AND REPRESENT THE ENGINEER'S BEST JUDGEMENT. HOWEVER, THE ENGINEER CANNOT AND DOES NOT GUARANTEE THAT BIDS OF ACTUAL TOTAL PROJECT OR CONSTRUCTION COSTS WILL NOT VARY FROM THE ESTIMATE OF PROBABLE CONSTRUCTION COST. THIS ESTIMATE IS INTENDED TO ASSIST IN BUDGETARY ASSESSMENT AND DOES NOT GUARANTEE THAT ACTUAL PROJECT COSTS WILL NOT EXCEED OR BE LOWER THAN THE AMOUNTS STATED IN THIS ESTIMATE.

# **Exhibit A**

## **Drawings**



NO.	DATE	REVISION DESCRIPTION	BY

**MECO**  
ENGINEERING CO., INC.

OFFICE LOCATIONS  
HANNIBAL, MO  
JEFFERSON CITY, MO  
BOONVILLE, MO  
BRANSON, MO  
PITTSFIELD, IL

meconengineering.com  
MO Engineering Lic. #0000598 - IL Design Firm #184-001749

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RAW WATER INTAKE STUDY CITY OF BOONVILLE COOPER COUNTY, MISSOURI					
SURVEYED	DESIGNED	DRAWN	CHECKED	APPROVED	RELEASED
	B. MARTIN	R. HAYES			

PROJECT LOCATION MAP			
SCALE	FILE NO.	PROJECT NO.	SHEET NO.
1" = 2000'	454291.002 Location Map	454-291.002	Page 25 of 36



NO.	DATE	REVISION DESCRIPTION	BY

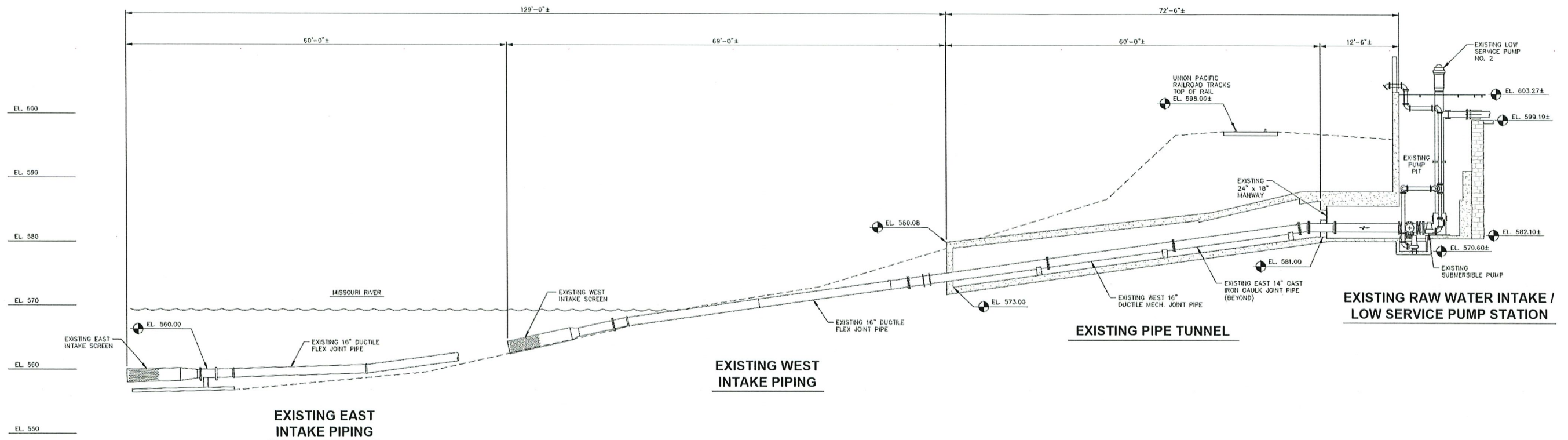

**MECO**  
 ENGINEERING CO., INC.  
MECO Engineering Co., Inc.  
 MO Engineering Lic. #000696 - IL Design Firm #184-001749

OFFICE LOCATIONS  
 HANDBAL, MO  
 JEFFERSON CITY, MO  
 BOONVILLE, MO  
 BRANSON, MO  
 PITTSFIELD, IL

THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEARS ON THIS SHEET ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) & (PURSUANT TO 225 ICS 325, PROFESSIONAL ENGINEERING PRACTICE ACT OF 1989) ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART, OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

RAW WATER INTAKE STUDY CITY OF BOONVILLE COOPER COUNTY, MISSOURI					
SURVEYED	DESIGNED	DRAWN	CHECKED	APPROVED	RELEASED
	B. MARTIN	R. HAYES			

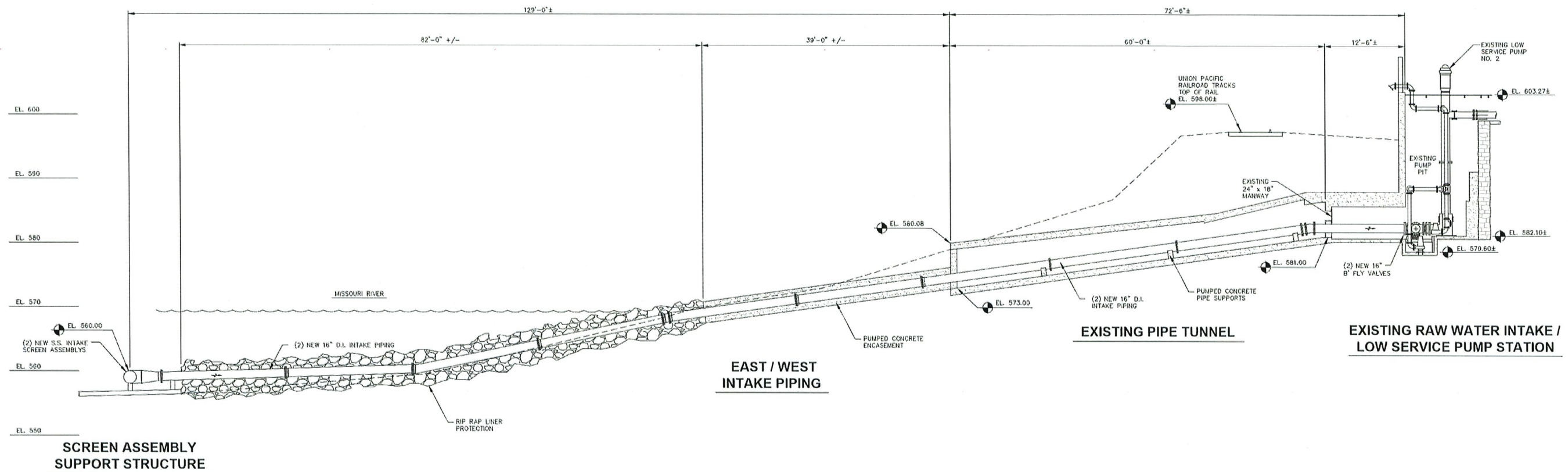
OPTION 1 REHAB EXISTING WATER INTAKE PIPING SITE PLAN			
SCALE	FILE NO.	PROJECT NO.	SHEET NO.
1" = 10'-0"	Option 1 Plan	454-291.002	2



IF THIS DRAWING IS PLOTTED LESS THAN 24x36 IN SIZE, IT IS A REDUCED PLOT - SCALE SHOULD BE ADJUSTED ACCORDINGLY	NO.	DATE	REVISION DESCRIPTION	BY	 <small>MECO ENGINEERING CO., INC.          1842 Engineering Center          MO Engineering Lic. #000898 - II Design Firm #184-001749</small>	<small>OFFICE LOCATIONS          HANNEBAL, MO          JEFFERSON CITY, MO          BOONVILLE, MO          BRANSON, MO          PITTSFIELD, IL</small>	<small>THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEARS ON THIS SHEET ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) &amp; (PURSUANT TO 225 ILOS 325 PROFESSIONAL ENGINEERING PRACTICE ACT OF 1989) ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART, OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.</small>	<b>RAW WATER INTAKE STUDY          CITY OF BOONVILLE          COOPER COUNTY, MISSOURI</b>					<b>OPTION 1          REHAB EXISTING WATER INTAKE PIPING          SECTION</b>			
	SURVEYED	DESIGNED B. MARTIN	DRAWN R. HAYES	CHECKED				APPROVED	RELEASED	SCALE 1/8" = 1'-0"	FILE NO. Option 1 Section	PROJECT NO. 454-291.002	SHEET NO. 3			



IF THIS DRAWING IS PLOTTED LESS THAN 24x36 IN SIZE, IT IS A REDUCED PLOT - SCALE SHOULD BE ADJUSTED ACCORDINGLY	NO.	DATE	REVISION DESCRIPTION	BY	 OFFICE LOCATIONS HANNIBAL, MO JEFFERSON CITY, MO BOONVILLE, MO BRANSON, MO PITTSFIELD, IL	THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEARS ON THIS SHEET ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) & (PURSUANT TO 225 ILCS 325 PROFESSIONAL ENGINEERING PRACTICE ACT OF 1989) ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART, OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.	<b>RAW WATER INTAKE STUDY</b> <b>CITY OF BOONVILLE</b> <b>COOPER COUNTY, MISSOURI</b>					<b>OPTION 2</b> <b>WATER INTAKE PIPING AND SCREEN REPLACEMENT</b> <b>SITE PLAN</b>		
								SURVEYED DESIGNED B. MARTIN	DRAWN R. HAYES	CHECKED	APPROVED	RELEASED	SCALE 1" = 10'-0"	FILE NO. Option 2 Plan



IF THIS DRAWING IS PLOTTED LESS THAN 24x36 IN SIZE, IT IS A REDUCED PLOT - SCALE SHOULD BE ADJUSTED ACCORDINGLY	NO.	DATE	REVISION DESCRIPTION	BY	 <small>meceengineering.com MO Engineering Lic. #002898 - 4, Design Firm #184-001749</small>	OFFICE LOCATIONS HANNIBAL, MO JEFFERSON CITY, MO BOONVILLE, MO BRANSON, MO PITTSFIELD, IL	<b>RAW WATER INTAKE STUDY</b> <b>CITY OF BOONVILLE</b> <b>COOPER COUNTY, MISSOURI</b>					<b>OPTION 2</b> <b>WATER INTAKE PIPING AND SCREEN REPLACEMENT</b> <b>SECTION</b>		
								THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEARS ON THIS SHEET ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) & (PURSUANT TO 225 ILCS 325/PROFESSIONAL ENGINEERING PRACTICE ACT OF 1989) ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART, OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.	SURVEYED DESIGNED B. MARTIN	DRAWN R. HAYES	CHECKED	APPROVED	RELEASED	SCALE 1/8" = 1'-0"



NO.	DATE	REVISION DESCRIPTION	BY

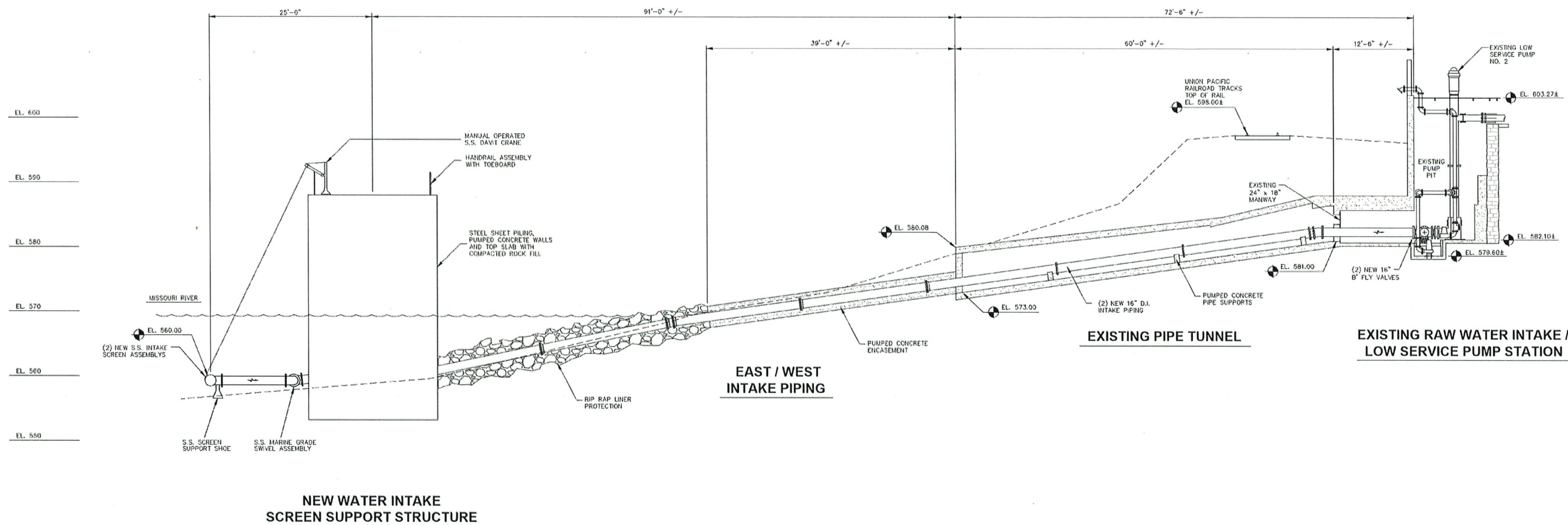

**MECO**  
 ENGINEERING CO., INC.  
MECO Engineering Co., Inc.  
 MO Engineering Lic. #000696 - IL Design Firm #184-001749

OFFICE LOCATIONS  
 HANNIBAL, MO  
 JEFFERSON CITY, MO  
 BOONVILLE, MO  
 BRANSON, MO  
 PITTSFIELD, IL

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RAW WATER INTAKE STUDY CITY OF BOONVILLE COOPER COUNTY, MISSOURI					
SURVEYED	DESIGNED	DRAWN	CHECKED	APPROVED	RELEASED
	B. MARTIN	R. HAYES			

OPTION 3 NEW INTAKE STRUCTURE SITE PLAN			
SCALE	FILE NO.	PROJECT NO.	SHEET NO.
1" = 10'-0"	Option 3 Plan	454-291.002	6



NO.	DATE	REVISION DESCRIPTION	BY



OFFICE LOCATIONS  
 HANBAL, MO  
 JEFFERSON CITY, MO  
 BOONVILLE, MO  
 BRANSON, MO  
 FITZFIELD, IL

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RAW WATER INTAKE STUDY  
 CITY OF BOONVILLE  
 COOPER COUNTY, MISSOURI

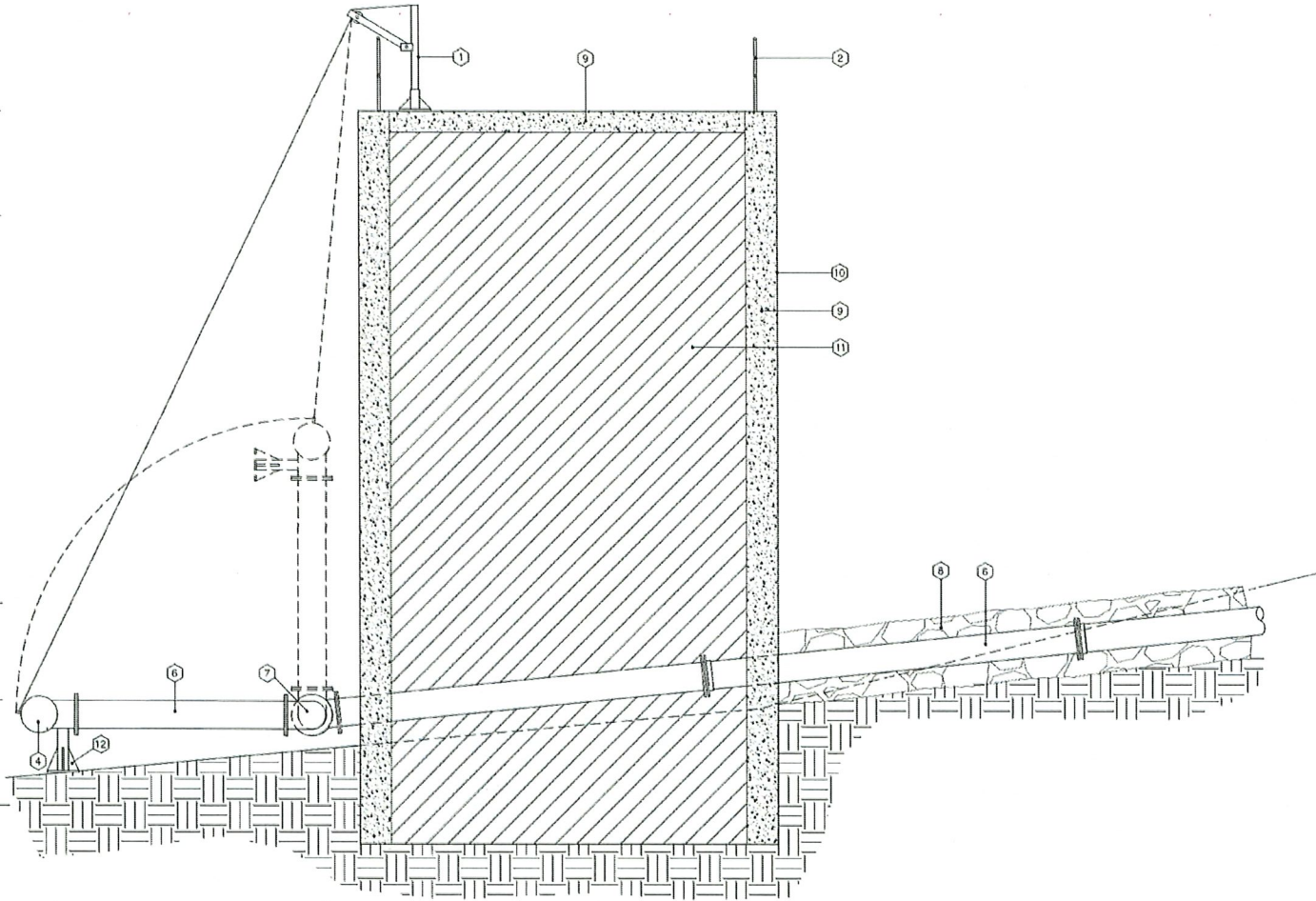
SURVEYED	DESIGNED	DRAWN	CHECKED	APPROVED	RELEASED
	B. MARTIN	R. HAYES			

OPTION 3 NEW INTAKE PIPING SECTION SECTION			
SCALE	FILE NO.	PROJECT NO.	SHEET NO.
1/8" = 1'-0"	Option 3 Section	454-291.002	7

500 YEAR FLOOD EL. 604.05  
 100 YEAR FLOOD EL. 601.90

TOP OF INTAKE STRUCTURE EL. 588.00  
 ORDINARY HIGH WATER LEVEL EL. 583.00

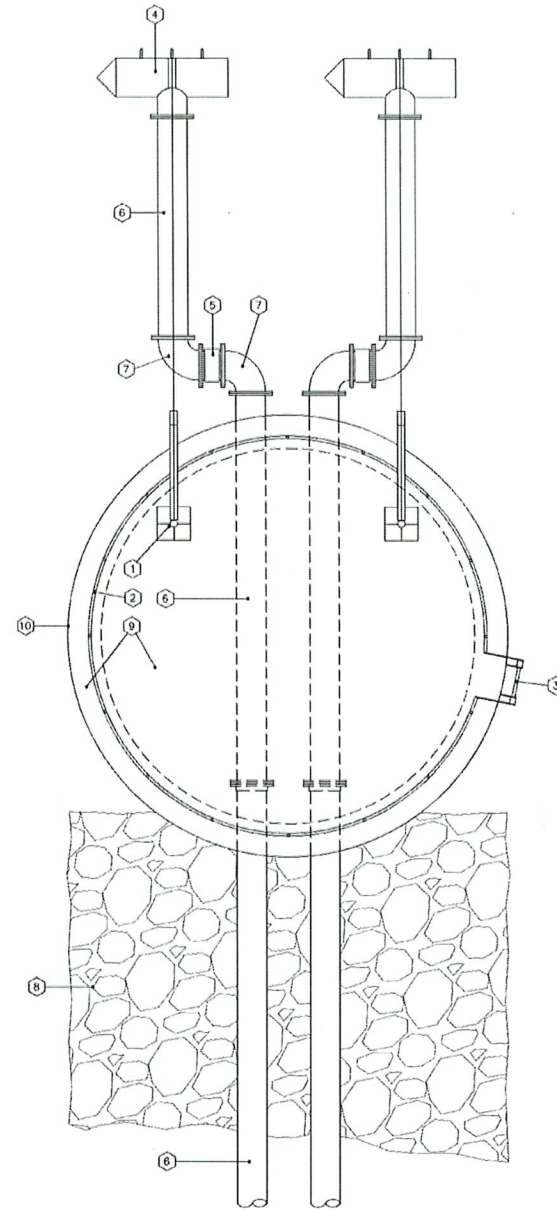
LOWEST ANTICIPATED WATER LEVEL EL. 564.60  
 TOP OF SCREEN EL. 560.00  
 RIVER BOTTOM EL. 555



SECTION THRU INTAKE STRUCTURE  
 LOOKING EAST DOWNSTREAM

KEY NOTES

- 1 S.S. PORTABLE MANUAL DAVIT CRANE
- 2 HANDRAILING
- 3 ACCESS LADDER WITH SAFETY CLIMB DEVICE
- 4 SIZE 24.00 INCH DIAMETER S.S. JOHNSON SCREEN ASSEMBLY
- 5 SIZE 16.00 INCH DIAMETER S.S. MARINE GRADE SWIVEL ASSEMBLY
- 6 SIZE 16.00 INCH DIAMETER DUCTILE IRON PIPE
- 7 SIZE 16.00 INCH DIAMETER DUCTILE IRON ELBOW
- 8 RIP RAP LINER PROTECTION
- 9 POUR-IN-PLACE CONCRETE WALLS AND TOP SLAB
- 10 OUTER STEEL SHEET PILING
- 11 COMPACTED ROCK FILL
- 12 S.S. SCREEN SUPPORT SHOE



INTAKE STRUCTURE PLAN VIEW

IF THIS DRAWING IS PLOTTED LESS THAN 24x36 IN SIZE, IT IS A REDUCED PLOT - SCALE SHOULD BE ADJUSTED ACCORDINGLY	NO.	DATE	REVISION DESCRIPTION	BY	 OFFICE LOCATIONS HANIBAL, MO JEFFERSON CITY, MO BOONVILLE, MO BRANSON, MO FITZFIELD, IL	THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEARS ON THIS SHEET ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) & (PURSUANT TO 225 ICS 325/PROFESSIONAL ENGINEERING PRACTICE ACT OF 1989) ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART, OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.	RAW WATER INTAKE STUDY CITY OF BOONVILLE COOPER COUNTY, MISSOURI					OPTION 3 NEW INTAKE STRUCTURE		
								SURVEYED _____ DESIGNED B. MARTIN DRAWN C. HUDDLESTON CHECKED _____ APPROVED _____ RELEASED _____	SCALE 1/4" = 1'-0"	FILE NO. Option 3 Structure	PROJECT NO. 454-291.002	SHEET NO. 8		

December 10, 2025

Kate Fjell  
City Administrator  
401 Main St.  
Boonville, Missouri 65233

**RE: Alliance Water Resources 2026/2027**  
**Boonville Water And Wastewater Treatment Proposed Budget**

Dear Kate,

Alliance Water Resources is pleased to present the proposed Water Treatment and Wastewater budgets for FYE 2027 for your review and consideration. The Water Treatment budget reflects a proposed 2.8% increase to the existing contract, resulting in a new annual total of \$1,067,064.00 and a monthly fee of \$88,922.00. The Repair Limit is proposed to increase by \$1,200.00 to \$40,000.00, while the Chemical Limit will decrease to \$313,500.00 from the previous year. These savings are attributed to successful optimization efforts at the water plant.

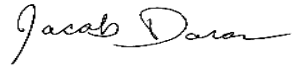
The Wastewater Treatment budget includes a proposed 3.9% increase to the existing contract, bringing the new annual total to \$792,168.00 and a monthly fee of \$66,014.00. Repair Limits are being adjusted due to a nutrient optimization pilot project completed with MDNR in 2025. Alliance Water Resources proposes reallocating chemical savings to offset increased biosolids removal costs. This adjustment will raise the Repair Limit from \$90,000.00 to \$165,000.00, while reducing the Chemical Limit from \$95,000.00 to \$20,000.00 for the upcoming fiscal year.

The budget increases are primarily driven by rising employee benefits, insurance costs, and the need to maintain competitive pay for staff. The water treatment plant had a good year, working closely with chemical vendors to optimize usage and reducing chemical costs. The wastewater plant participated in a MDNR nutrient optimization pilot program, aimed at reducing Gulf Hypoxia by lowering phosphorus and nitrogen discharges. This program resulted in reductions in energy costs, though some trade-offs were necessary to manage increased biosolids disposal. This initiative also positions the City to participate in the DNR Carbon Credit program, which could provide future financial benefits starting in 2028.

A copy of the amendment for each agreement is attached for your review and consideration. Please sign and return two (2) copies of each, if the proposal is acceptable.

One of AWR's Core Values is financial responsibility for our clients. We understand how important financial sustainability is to the City of Boonville and we strive to keep our increase as low as possible. If you have any questions, please don't hesitate to contact me.

Sincerely,



Jake Doran  
Division Manager  
Alliance Water Resources  
(573)397-8717

Cc. Jeff Ditto - City of Boonville, Director of Public Works  
Kevin McKee – AWR, Local Manager  
Josh Duncan – AWR, Director of Operations

**MEMORANDUM OF AGREEMENT  
(WATER TREATMENT)**

This Memorandum of Agreement has been entered into this \_\_\_\_\_ day of \_\_\_\_\_, 2026 by and between the City of Boonville, a municipal corporation of the state of Missouri (hereinafter referred to as "City"), and Alliance Water Resources, Inc., (hereinafter referred to as "Alliance").

This Memorandum of Agreement has as its purpose to modify the initial Professional Services Agreement dated June 3, 2013, and the Memoranda of Agreement(s) dated December 21, 2015, March 17, 2020, and the Annual Base Fee compensation memorandum agreements between the City and Alliance.

Pursuant to section 3.6 the following Section(s) of the Professional Services Agreement are modified as follows:

Section 5.1 to establish Alliance's Base Fee compensation beginning April 1, 2026.

5.1 Alliance's Base Fee compensation under this Agreement beginning April 1, 2026 through March 31, 2027 shall be \$88,922.00 per month. The annual Repair Limit is increased to \$40,000.00 and the annual Chemical Limit shall be reduced to \$313,500.00. The Repair and Chemical Limits are included in the Alliance Base Fee.

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed as of the first date written above.

Authorized Signature

Authorized Signature

\_\_\_\_\_  
President  
Alliance Water Resources

\_\_\_\_\_  
Mayor  
City of Boonville, Missouri

\_\_\_\_\_  
Date

\_\_\_\_\_  
Date

ATTEST:

\_\_\_\_\_  
Secretary

\_\_\_\_\_  
City Clerk

**MEMORANDUM OF AGREEMENT  
(WASTEWATER)**

This Memorandum of Agreement has been entered into this \_\_\_\_\_ day of \_\_\_\_\_, 2026 by and between the City of Boonville, a municipal corporation of the state of Missouri (hereinafter referred to as "City"), and Alliance Water Resources, Inc., (hereinafter referred to as "Alliance").

This Memorandum of Agreement has as its purpose to modify the initial Professional Services Agreement dated March 7, 2023, to establish Alliance's Base Fee compensation beginning April 1, 2026.

Section 6.1 of the Professional Services Agreement is modified as follows:

6.1 Alliance's Base Fee compensation under this Agreement beginning April 1, 2026 through March 31, 2027 shall be \$66,014.00 per month. The annual Repair Limit will increase to \$165,000.00 and the annual Chemical Limit will decrease to \$20,000.00. The Repair and Chemical Limits are included in the Alliance Base Fee.

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed as of the first date written above.

Authorized Signature

Authorized Signature

\_\_\_\_\_  
President  
Alliance Water Resources

\_\_\_\_\_  
Mayor  
City of Boonville, Missouri

\_\_\_\_\_  
Date

\_\_\_\_\_  
Date

ATTEST:

\_\_\_\_\_  
Secretary

\_\_\_\_\_  
City Clerk