



1719 Southridge Drive, Suite 100  
Jefferson City, MO 65109-4000  
ph (573) 634-3181  
[www.bartlettwest.com](http://www.bartlettwest.com)

January 12, 2022

Missouri Department of Natural Resources  
Water Protection Program  
Financial Assistance Center  
Attn: Ms. Aidan Humphrey  
P.O. Box 176  
Jefferson City, MO 65102-0176

Re: Meta, MO – Water System Improvements  
Preliminary Engineering Report – Amendment No. 2

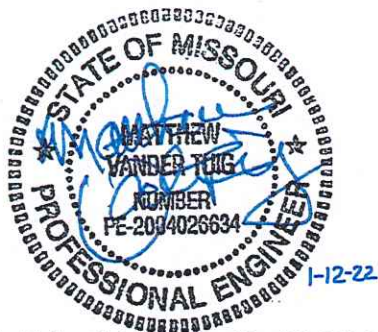
Dear Ms. Humphrey:

This letter is intended to serve as the second amendment to the Preliminary Engineering Report (PER) dated April 12, 2019. The purpose of this amendment is to revise the cost estimates as presented in Appendix M - Project Alternatives Concept Cost Estimates of the PER. The priority list of the projects remains the same as it was presented in amendment 1 and is as follows:

- Priority Area 1 – Distribution System Improvements
- Priority Area 2 – Distribution System Improvements
- Priority Area 3 – Distribution System Improvements
- Well House Improvements
- New Water Tower

The City of Meta plans to submit a State Revolving Fund (SRF) application for the year 2022. In effort to make the application as accurate as possible, the estimates were updated from their original 2019 values to be representative of current construction and material costs. Given the industry has seen price increases over the past 2 years, review of the original cost estimates was warranted. Revised cost estimates of the recommendations can be found in **Appendix A** of this letter amendment. Providing the City of Meta with an updated and more accurate cost estimate will allow them to better budget for the proposed project and secure appropriate funding.

Sincerely,



Matt VanderTuig, P.E. (License No. PE-2004026634)



Driving Community and Industry Forward, Together.

Total Cost

\$ 5,105,375

## Appendix A

### Revised Cost Estimates



Driving Community and Industry Forward, Together.

# Bartlett & West

1719 SOUTHRIDGE DRIVE SUITE 100 ■ JEFFERSON CITY MO 65109  
573.634.3181 ■ FAX 573.634.7904 ■ 866.869.8031  
WWW.BARTWEST.COM

## Engineer's Estimate

Date: 01/11/22  
Project No.: 18906.002

Priority Area 1 - Distribution System Improvements					
ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT COST	EXTENSION
1	Mobilization	LS	1	\$51,560.00	\$51,560.00
1	6" PR200 SDR 21 PVC Pipe	LF	5,500	\$70.00	\$385,000.00
2	4" PR200 SDR 21 PVC Pipe	LF	2,100	\$65.00	\$136,500.00
3	Valves, Fittings, and other Appurtenances	LS	1	\$78,230.00	\$78,230.00
4	Fire Hydrant Assembly	EA	9	\$4,500.00	\$40,500.00
5	Flush / pig / pressure test / disinfect / dechlorinate / bac-t test	LF	7,600	\$0.90	\$6,840.00
6	*Other project costs	LS	1	\$38,000.00	\$38,000.00
<b>Total Estimated Construction Cost:</b>					<b>\$736,630.00</b>
Construction Contingencies (10%):					\$73,660.00
<b>Total Estimated Construction Cost with Contingencies:</b>					<b>\$810,290.00</b>
*Non-Construction Costs (35%):					\$283,600.00
<b>Total Estimated Project Cost:</b>					<b>\$1,093,890.00</b>

This project cost opinion was prepared using bid tabulation information available at the time of preparation and is prepared in good faith using engineer's judgment and experience. The engineer makes no guarantee as to the actual costs for construction. At the time of preparation, the third party utility relocation needs were unknown, and therefore, are not included in this estimate. In addition, other project costs such as right-of-way and easement acquisition, permitting, and fees are not included in this estimate.

\*Other project costs include erosion control; traffic control; abandonments and removals; locate / pothole / probe existing water lines and storm drains; repair / replace existing utilities; and improvements; and clean-up and restoration

### \*Non Construction Costs Include:

Engineering Report  
Surveying - Boundary and Right of Way  
Geotech  
Design with Topo Surveying  
Permitting  
Bidding and Advertising  
Construction Observation  
Construction Administration  
Legal Fees  
Bond Counsel  
Interest During Construction  
Financing Fees  
Construction Staking  
Environmental Report

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## Engineer's Estimate

Date: 01/11/22  
Project No.: 18906.002

Priority Area 2 - Distribution System Improvements					
ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT COST	EXTENSION
1	Mobilization	LS	1	\$57,510.00	\$57,510.00
1	6" PR200 SDR 21 PVC Pipe	LF	5,500	\$70.00	\$385,000.00
2	4" PR200 SDR 21 PVC Pipe	LF	2,800	\$65.00	\$182,000.00
3	Valves, Fittings, and other Appurtenances	LS	1	\$85,050.00	\$85,050.00
4	Fire Hydrant Assembly	EA	14	\$4,500.00	\$63,000.00
5	Flush / pig / pressure test / disinfect / dechlorinate / bac-t test	LF	8,300	\$0.90	\$7,470.00
6	*Other project costs	LS	1	\$41,500.00	\$41,500.00
<b>Total Estimated Construction Cost:</b>					<b>\$821,530.00</b>
Construction Contingencies (10%):					\$82,150.00
<b>Total Estimated Construction Cost with Contingencies:</b>					<b>\$903,680.00</b>
*Non-Construction Costs (35%):					\$316,290.00
<b>Total Estimated Project Cost:</b>					<b>\$1,219,970.00</b>

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\*Other project costs include erosion control; traffic control; abandonments and removals; locate / pothole / probe existing water lines and storm drains; repair / replace existing utilities; and improvements; and clean-up and restoration

### \*Non Construction Costs Include:

Engineering Report  
Surveying - Boundary and Right of Way  
Geotech  
Design with Topo Surveying  
Permitting  
Bidding and Advertising  
Construction Observation  
Construction Administration  
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## Engineer's Estimate

Date: 01/11/22  
Project No.: 18906.002

Priority Area 3 - Distribution System Improvements					
ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT COST	EXTENSION
1	Mobilization	LS	1	\$39,980.00	\$39,980.00
1	6" PR200 SDR 21 PVC Pipe	LF	3,450	\$70.00	\$241,500.00
2	4" PR200 SDR 21 PVC Pipe	LF	2,500	\$65.00	\$162,500.00
3	Valves, Fittings, and other Appurtenances	LS	1	\$60,600.00	\$60,600.00
4	Fire Hydrant Assembly	EA	7	\$4,500.00	\$31,500.00
5	Flush / pig / pressure test / disinfect / dechlorinate / bac-t test	LF	5,950	\$0.90	\$5,355.00
6	*Other project costs	LS	1	\$29,750.00	\$29,750.00
<b>Total Estimated Construction Cost:</b>					<b>\$571,185.00</b>
Construction Contingencies (10%):					\$57,120.00
<b>Total Estimated Construction Cost with Contingencies:</b>					<b>\$628,305.00</b>
*Non-Construction Costs (35%):					\$219,910.00
<b>Total Estimated Project Cost:</b>					<b>\$848,215.00</b>

This project cost opinion was prepared using bid tabulation information available at the time of preparation and is prepared in good faith using engineer's judgment and experience. The engineer makes no guarantee as to the actual costs for construction. At the time of preparation, the third party utility relocation needs were unknown, and therefore, are not included in this estimate. In addition, other project costs such as right-of-way and easement acquisition, permitting, and fees are not included in this estimate.

\*Other project costs include mobilization / demobilization; erosion control; traffic control; abandonments and removals; locate / pothole / probe existing water lines and storm drains; repair / replace existing utilities; and improvements; and clean-up and restoration

### \*Non Construction Costs Include:

Engineering Report  
Surveying - Boundary and Right of Way  
Geotech  
Design with Topo Surveying  
Permitting  
Bidding and Advertising  
Construction Observation  
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## Engineer's Estimate

Date: 01/11/22  
Project No.: 18906.002

Well House Improvements					
ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT COST	EXTENSION
1	Mobilization	LS	1	\$7,640.00	\$7,640.00
2	Revised Pipe Run for Corrections to Meter Installation and Adjacent Fittings and Bends	LS	1	\$40,000.00	\$40,000.00
3	Pump Control Valve and Pump to Waste Discharge Line to Outside of Well House	LS	1	\$18,000.00	\$18,000.00
4	Seal at Wellhead	LS	1	\$6,000.00	\$6,000.00
5	Air/Vacuum Release Valve	LS	1	\$6,000.00	\$6,000.00
6	Miscellaneous Site Improvements including Fencing for Safety Improvements	LS	1	\$12,000.00	\$12,000.00
7	Manhole and Pump to Waste Gravity Sewer to Ditch North of Well House	LS	1	\$6,000.00	\$6,000.00
8	Minor Site Grading and Gravel Pavement within Fence Enclosure	LS	1	\$12,000.00	\$12,000.00
9	Erosion Control, Site Cleanup, and Restoration	LS	1	\$1,500.00	\$1,500.00
<b>Total Estimated Construction Cost:</b>					<b>\$109,140.00</b>
Construction Contingencies (10%):					\$10,910.00
<b>Total Estimated Construction Cost with Contingencies:</b>					<b>\$120,050.00</b>
*Non-Construction Costs (35%):					\$42,020.00
<b>Total Estimated Project Cost:</b>					<b>\$162,070.00</b>

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### \*Non Construction Costs Include:

Engineering Report  
Surveying - Boundary and Right of Way  
Geotech  
Design with Topo Surveying  
Permitting  
Bidding and Advertising  
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Construction Administration  
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WWW.BARTWEST.COM

## Engineer's Estimate

Date: 01/11/22  
Project No.: 18906.002

New Water Tower					
ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT COST	EXTENSION
1	Mobilization	LS	1	\$81,610.00	\$81,610.00
2	50,000 Gallon Elevated Storage Tank (Complete)	LS	1	\$856,200.00	\$856,200.00
3	Miscellaneous Storage Tank Work Including Electric, Fence, and Connections to Yard Piping	LS	1	\$50,000.00	\$50,000.00
4	Corrections to Pressure Transducer and Controls for Proper Cycling of Tank	LS	1	\$34,900.00	\$34,900.00
5	Yard Piping and Valve Manholes	LS	1	\$50,000.00	\$50,000.00
6	Overflow Tank Drainage System	LS	1	\$2,000.00	\$2,000.00
7	Site Grading and Gravel Pavement and Drives	LS	1	\$20,000.00	\$20,000.00
8	Demolition of Existing Tower and Disposal	LS	1	\$30,000.00	\$30,000.00
10	Replace well pump, motor, column piping, motor cable, air lines, check valves, and all appurtenances at existing well	LS	1	\$35,600.00	\$35,600.00
11	Erosion Control, Site Cleanup, and Restoration	LS	1	\$5,500.00	\$5,500.00
<b>Total Estimated Construction Cost:</b>					<b>\$1,165,810.00</b>
Construction Contingencies (10%):					\$116,580.00
<b>Total Estimated Construction Cost with Contingencies:</b>					<b>\$1,282,390.00</b>
1	The higher of the cost of property acquisition for construction of the new tank and yard piping (assumed 3/4 acre) or the rental of a pneumatic tank during the construction of the new tank if the property acquisition is not possible	LS	1	\$50,000.00	\$50,000.00
*Non-Construction Costs (35%):					\$448,840.00
<b>Total Estimated Project Cost:</b>					<b>\$1,781,230.00</b>

This project cost opinion was prepared using bid tabulation information available at the time of preparation and is prepared in good faith using engineer's judgment and experience. The engineer makes no guarantee as to the actual costs for construction. At the time of preparation, the third party utility relocation needs were unknown, and therefore, are not included in this estimate. In addition, other project costs such as right-of-way and easement acquisition, permitting, and fees are not included in this estimate.

### \*Non Construction Costs Include:

Engineering Report  
Surveying - Boundary and Right of Way  
Geotech  
Design with Topo Surveying  
Permitting  
Bidding and Advertising  
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of these concept cost estimates.

## B. DISTRIBUTION IMPROVEMENTS

As indicated in Section II.E of this report, the vast majority of the distribution system is assumed to be cast iron pipes part of the original water system that is nearing the end of its life expectancy. To summarize various sections of the report, several factors suggest parts of the water system may already be starting to fail, such as:

- Nearing its life expectancy based on 75-year life expectancy of cast iron manufactured in the 1950's.
- Evidence of corrosive soils leading to reduced life expectancy.
- Evidence of shallow bed rock and improper bedding construction techniques that were common during installations in the 1950's.
- Higher than average water main breaks per mile for those breaks that were documented.

The recommendation is to replace all the water mains assumed to be original to the start of the water system. In doing so, the planned improvements will also address sub-standard fire flow conditions to ensure a minimum of 250 gpm fire flow is achievable at all hydrants in town with typical spacing between fire hydrants for better coverage. There are three distinct priority areas based on the available data.

The first priority area is in the northeast section of the water system where there are the most water main breaks and presence of shallow bed rock. This is also the section of the distribution system that has the lowest system pressures leading to the conclusion that the proposed taller elevated storage tank could cause the frequency of main breaks in this area to

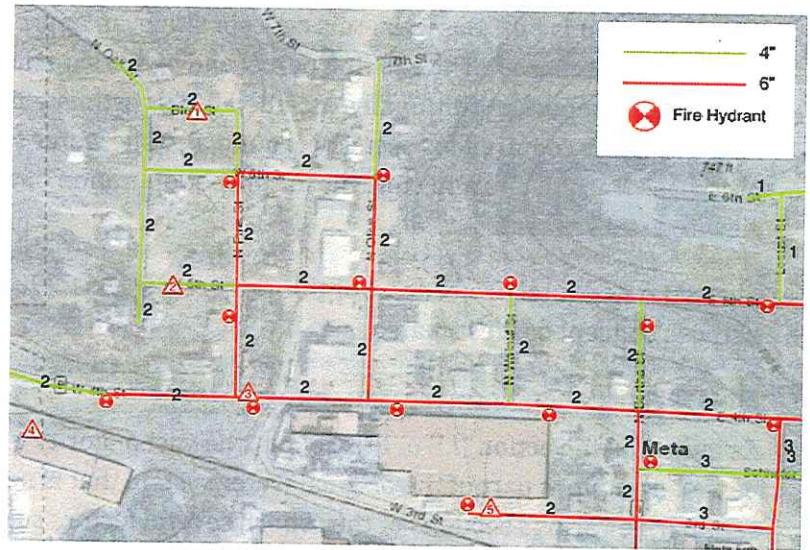
increase. **Exhibit X.B-1** shows the limits of these proposed improvements which are north and east of the intersection of 4<sup>th</sup> Street and Locust Street.



**Exhibit X.B-1: Proposed Distribution System Improvements – Priority 1**

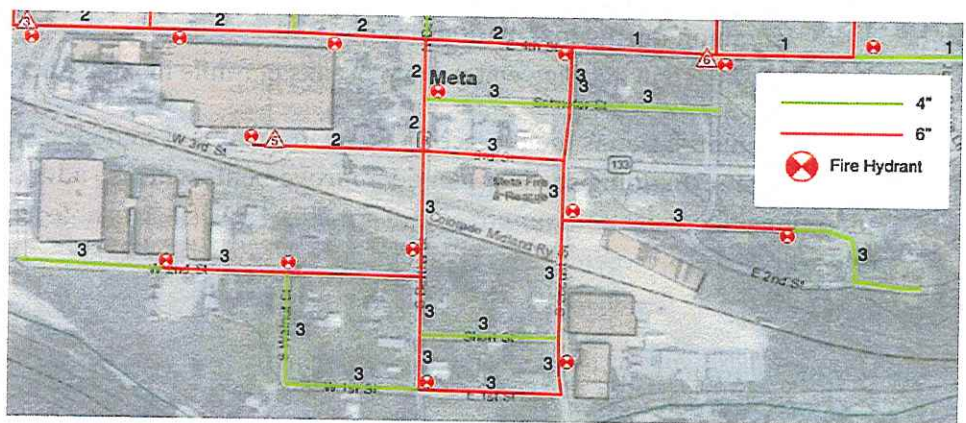


The second priority area has the remaining recorded breaks and is in the northwest section of the City. The likely cause of these breaks as discussed in Section II.E of the report is high corrosive soils and high system pressures. While the pressures are not excessive, they are between 80-100 psi. Similar to the first priority area, these pressures will be increased by approximately 15 psi when the taller storage tank is constructed. **Exhibit X.B-2** shows the limits of these proposed improvements which are north and west of the intersection of 3<sup>rd</sup> Street and Locust Street.



**Exhibit X.B-2: Proposed Distribution System Improvements – Priority 2**

The third priority area is the remaining portions of the original cast iron mains not covered by priority areas 1 and 2. While according to documented water break information, the City hasn't experienced a water main break in this area, the pipes are assumed to be original to the start of the water system, there are corrosive soils similar to all areas in Meta, and the system pressures are high in this area between 70-100 psi. **Exhibit X.B-3** shows the limits of these proposed improvements which are south of 4<sup>th</sup> Street and north of 1<sup>st</sup> Street.



**Exhibit X.B-3: Proposed Distribution System Improvements – Priority 3**

Appendix L includes an overall map of Meta showing all three of these priority areas. The estimated total project costs for these improvements to the distribution system is \$2,495,160. See **Appendix M** for the breakdown of these concept cost estimates.

### C. WELL HOUSE IMPROVEMENTS

Well House improvements are recommended to address the following issues as outline in this report:

- fix the incorrect meter installation location that might be affecting the master meter flow readings by installing the correct upstream and downstream piping lengths and bend configurations
- install a pump control valve for a pump to waste line for improved water quality
- fix the seal at the wellhead with a threaded connection or tight-fitting grommet
- remove corrosion at the remaining pipes and flanges and paint them
- install an air/vacuum release valve
- install pump to waste manhole and gravity discharge pipe to the ditch along 7<sup>th</sup> Street north of well house

Since this is the only well in the City, the construction will be phased to allow for the shortest down time by installing the new pipe run, valves, associated bends listed above parallel to the existing pipe run in the well house, then filling the tank, and finally making the connections at both pipes entering the well house floor. The estimated total project costs for these improvements to the distribution system is \$141,160.

### VI. POTENTIAL DRAWING OF CONSTRUCTION





101 South Locust Street  
P.O. Box 65  
Meta, Missouri 65058  
cityofmetamo@outlook.com  
Office: 573-229-4439  
Fax: 573-229-4439

January 18, 2022

Financial Assistance Center  
1101 Riverside Drive  
PO Box 176  
Jefferson City, MO 65101-0176

Re: Financial Assurance for State Revolving Fund – Meta Public Water Supply Project

To Whom it May Concern:

I, the undersigned, as the Mayor for the City of Meta, confirm that our agency has the required matching funds available for completion of the above-referenced project. Furthermore, I confirm that the City of Meta is committed to completing the project within the timeframe outlined by the application agreement and that funds will be made available for the long-term maintenance of the completed project.

Signed:

\_\_\_\_\_  
Emily Sommerer, Mayor

Date:

\_\_\_\_\_



**RESOLUTION NUMBER 2022-02 OF THE BOARD OF ALDERMEN**

**CITY OF META**

**A RESOLUTION FOR THE MAYOR TO SIGN THE APPLICATION FOR THE STATE REVOLVING FUND THROUGH THE MISSOURI DEPARTMENT OF NATURAL RESOURCES AND ANY OTHER OFFICIAL PROJECT DOCUMENTS THAT ARE NECESSARY TO OBTAIN FINANCIAL ASSISTANCE, INCLUDING ANY AGREEMENTS, CONTRACTS OR OTHER DOCUMENTS THAT ARE REQUIRED BY THE STATE OF MISSOURI OR FEDERAL ADMINISTRATION.**

**WHEREAS**, the City of Meta is applying for funds from the State Revolving Fund (SRF) through Missouri Department of Natural Resources for the purpose of updating their public water supply system.

**NOW, THEREFORE, BE IT RESOLVED**, by the Mayor and the Board of Alderman of the City of Meta, Osage County, Missouri, as follows:

**SECTION 1:** Mayor, Emily Sommerer is authorized to sign the application for the State Revolving Fund and any other official project documents that are necessary to obtain such assistance, including any agreements, contracts or other documents that are required by the State of Missouri or the Federal Administration.

**SECTION 2:** The City of Meta currently has the written commitment for the minimum 20% matching share for the project elements that are identified in the application and will allocate the necessary funds to complete the project.

**SECTION 3:** In the event funds are awarded, the City of Meta will commit the necessary financial resources to operate and maintain the completed project in a safe and attractive manner.

**SECTION 4:** In the event funds are awarded, the City of Meta is prepared to complete the project within the time period identified on the signed project agreement.

**SECTION 5:** In the event funds are awarded, the City of Meta will comply with all rules and regulations of the State Revolving Fund, applicable Executive Orders, all state laws that govern the grant applicant during the performance of the project, and stewardship requirements after the project is completed.

**APPROVED and ADOPTED** by the Mayor and Board of Alderman of the City of Meta this 18<sup>th</sup> day of January, 2022.

\_\_\_\_\_  
Mayor, Emily Sommerer

\_\_\_\_\_  
Date

**Attest:**

\_\_\_\_\_  
City Clerk, Deidra Buechter

\_\_\_\_\_  
Date



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
**DRINKING WATER STATE REVOLVING FUND LOAN APPLICATION**

**FOR OFFICE USE ONLY**

DATE RECEIVED

PROJECT NUMBER

PRIORITY POINTS

**This application is for a Drinking Water State Revolving Fund Loan described in Missouri Regulation 10 CSR 60-13.020.**

**Submit to:** Missouri Department of Natural Resources, Financial Assistance Center, P.O. Box 176, Jefferson City, MO 65102-0176. Please type or print legibly.

**1. APPLICANT INFORMATION**

PUBLIC WATER SUPPLY NAME Meta PWS		PUBLIC WATER SUPPLY ID NO. MO3010517	
PUBLIC WATER SUPPLY OWNER City of Meta		DUNS NO. 788774581	
PUBLIC WATER SUPPLY CONTACT PERSON FOR THIS DRINKING WATER STATE REVOLVING FUND LOAN PROJECT Deidra Buechter		TITLE City Clerk	
MAILING ADDRESS 101 S Locust St, P.O. Box 65		EMAIL ADDRESS cityofmetamo@outlook.com	
CITY Meta	STATE MO	ZIP CODE + FOUR 65058-0061	COUNTY Osage
TELEPHONE NUMBER WITH AREA CODE (573) 229-4439		Ext.	

**2. ARCHITECTURAL AND ENGINEERING CONSULTANT INFORMATION**

CONSULTING FIRM'S NAME Bartlett & West, Inc.		CONSULTANT'S NAME Gary W. Davis, PE	
CONSULTANT MAILING ADDRESS 1719 Southridge Drive, Suite 100		EMAIL ADDRESS gary.davis@bartwest.com	
CITY Jefferson City	STATE MO	ZIP CODE + FOUR 65109-4000	
CONSULTANT TELEPHONE NUMBER WITH AREA CODE (573) 659-6731		Ext.	

**3. GENERAL INFORMATION**

POPULATION SERVED 229		MEDIAN HOUSEHOLD DECENNIAL INCOME FOR THE SERVICE AREA \$ 41,667.00	
CURRENT AVERAGE MONTHLY WATER BILL FOR A TYPICAL HOUSEHOLD, PER 5,000 GALLONS \$ 35.39			
ESTIMATED AVERAGE MONTHLY WATER BILL FOR A TYPICAL HOUSEHOLD, PER 5,000 GALLONS, FOLLOWING COMPLETION OF THIS PROJECT \$			
ANTICIPATED TERM OF THE LOAN (YEARS) 20			
EXISTING CUSTOMERS 104		ESTIMATED CUSTOMERS AT PROJECT COMPLETION	
WHAT IS YOUR COLLECTION DELINQUENCY RATE? Percent		ARE YOU CURRENTLY FUNDING DEPRECIATION? <input type="checkbox"/> Yes <input type="checkbox"/> No	
OUTSTANDING DEBT SERVICE \$	ANY DEBT HELD BY USDA RURAL DEVELOPMENT? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		WHEN WAS THE LAST TIME USER-FEES WERE REVIEWED?
EXISTING ANNUAL DEBT SERVICE \$			WHEN WAS THE LAST TIME USER-FEES WERE INCREASED?
REVENUE LESS (MINUS) OPERATING EXPENSES FOR THE LAST FISCAL YEAR EQUALS = \$			
FROM A FINANCIAL STANDPOINT, DO YOU HAVE A COMBINED WATER AND SEWER SYSTEM? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
U.S. CONGRESSIONAL DISTRICT NUMBER 3	STATE SENATE/DISTRICT NUMBER(S) 6		STATE REPRESENTATIVE DISTRICT NUMBER(S) 62



**4. PROJECT DESCRIPTION**

DESCRIBE THE MAJOR COMPONENTS OF THE PROJECT (ATTACH A SEPARATE SHEET, IF NECESSARY)

Address the storage, capacity, and distribution system improvements that the City's drinking water system needs as stated in the Preliminary Engineering Report submitted in April 2019. The storage needs consist of building a new water tower as the existing tower's elevation is too low to provide adequate pressures. The capacity needs consist of well house improvements as many of the components of their drinking water well are in need of repair or replacement. The distribution system improvements consist of replacing nearly all of the existing water line with new pipe as the current pipe suffers from constant leaks and breaks, cuing it is near the end of its useful life. Adding valves and other appurtenances will also improve the distribution system.

**5. PROJECT COST INFORMATION****ESTIMATED TOTAL PROJECT COST BREAKDOWN**

Engineering Planning and Design	\$ 500,000.00
Construction Engineering Services	\$ 300,660.00
Engineering Inspection	\$ 510,000.00
Construction Total	\$ 3,802,735.00
Other Costs (refinancing, etc.) Specify:	\$ 0.00
Land and Easement Acquisition	\$ 50,000.00
Contingency (10% of Construction)	\$ 380,273.50
<b>Total Project Costs</b>	<b>\$ 5,543,668.50</b>

**BREAKDOWN OF STATE REVOLVING FUND ELIGIBLE CONSTRUCTION COST PER DESIGNATED CATEGORIES:**

Transmission and Distribution	\$ 2,527,785.00
Storage	\$ 1,165,810.00
Source	\$ 109,140.00
Treatment	\$ 0.00
Other Construction Specify:	\$ 0.00
Construction Total	\$ 3,802,735.00

Funding Sources other than the Drinking Water State Revolving Fund (specify whether loan or grant): **If you list grant funding, please attach a copy of the grant approval letter, otherwise do not assume any grant funding.**

•	\$
•	\$
<b>BALANCE</b> (Total project costs minus other funding sources)	\$
Cost of Issuance (3% of total project costs)	\$

**AMOUNT OF CONSTRUCTION LOAN REQUEST** (Balance plus Cost of Issuance)

\$

**PROJECTED REPAYMENT SOURCE**

- ☒ User Fees  
☒ General Funds  
☒ Sales  
☐ Other (Please describe):

IS THE SOURCE OF REPAYMENT IN PLACE AND AVAILABLE AT THIS TIME?  
(CHECK ONE)

☐ Yes ☐ No If yes, specify:

**6. Planning and Design Loan Information**

Only complete this section if the applicant is also applying for a short-term interim loan to cover planning and design expenses incurred prior to SRF Construction loan closing. See number 6 in the attached directions.

**ESTIMATED TOTAL PLANNING AND DESIGN COST BREAKDOWN**

Engineering Planning and Design (should not exceed the amount listed in Section 5 above)	\$ 500,000.00
Contingency and Cost of Issuance (20% of Engineering Planning and Design)	\$ 100,000.00
<b>Amount of Planning and Design Loan Request</b> (Sum of two lines above)	<b>\$ 600,000.00</b>

**7. ANTICIPATED DEBT STRUCTURE/SECURITY**

☐ General Obligation Bonds ☒ Revenue Bonds

AMOUNT OF BOND

\$ 2,000,000.00

HAVE YOU PASSED BONDS FOR THIS PROJECT? (CHECK ONE)

- ☐ Yes – include a copy of the documentation listed in #6 of the instructions  
☒ No Bond election will be on August 2, 2022



8. PROJECT SCHEDULE	
MILESTONE	ANTICIPATED DATE
A. Engineering report submittal (See attached Engineering Report Submittal Checklist before submitting the engineering report)	4/12/2019
B. All other funding is secured (if necessary, bonds are voted)	8/3/2022
C. Engineering plans and specifications submittal	10/1/2023
D. Construction start date	5/1/2024

**9. PRIORITY POINTS CRITERIA (SEE MISSOURI DRINKING WATER STATE REVOLVING FUND PRIORITY POINTS CRITERIA FACT SHEET FOUND IN APPENDIX 5 OF THE DRINKING WATER STATE REVOLVING FUND INTENDED USE PLAN)**  
**NOTE:** Check all items listed below that apply to the project and describe in the space provided. Attach any supporting documentation (e.g., copy of the latest sanitary survey, inspection, copy of order, agreement, permit or other enforceable document, etc.) and specifically cross-reference it in the narrative description. The department will consider only supporting documentation described on the application form.

**SAFE DRINKING WATER ACT COMPLIANCE (Anticipated compliance benefits of the proposed project.)**

This project will address the below issues (check all that apply):

- ☐ Correct persistent violations of maximum contaminant levels or treatment performance criteria for acute risk contaminants (such as coliform, turbidity or nitrate) within the past 36 months.
- ☐ Correct persistent violations of treatment technique requirements.
- ☐ Correct persistent violations of maximum contaminant levels for non-acute risk primary contaminants occurring within the past 36 months.
- ☐ Correct persistent violations of maximum contaminant levels for secondary contaminants occurring within the past 36 months.
- ☐ Enable the public water supply to comply with certain anticipated federal regulations.
- ☐ Enable the public water supply to comply with an administrative order, bilateral compliance agreement, permit, or other enforceable document issued by the Missouri Department of Natural Resources.

**PUBLIC HEALTH (Anticipated public health benefits of the proposed project.)**

This project will address the below issues (check all that apply):

- ☐ Existing public water systems only: The project will address problems causing a waterborne disease outbreak attributable to the public water supply by the Missouri Department of Health and Senior Services.
- ☒ Existing public water systems only: The public water supply can document its inability consistently to maintain over 35 psi as a normal working pressure in the distribution system.
- ☒ Existing public water systems only: The public water supply can document its inability consistently to maintain over 20 psi at all service connections.
- ☐ Private or non-community wells or sources in the project service area are unable to consistently provide an adequate amount of potable water for general household purposes.

**PUBLIC WATER SYSTEM INFRASTRUCTURE IMPROVEMENTS (Anticipated infrastructure benefits of the proposed project.)**

This project will address the below issues (check all that apply):

- ☐ Provide a public water supply with a backup well or backup interconnection with another public water supply.
- ☐ Address problem(s) with improper well construction.
- ☒ Address unaccounted for water that exceeds 10% of the drinking water produced by the system, and the loss is due to leaking or broken water lines.
- ☒ Provide necessary modifications to a distribution system anticipated to exceed design capacity or useful life within the next five years.

- ☒ Address a demonstrated need to replace faulty pipes or substandard pipe materials.
- ☒ Address a demonstrated need for distribution system valves and flushing devices.
- ☒ Address a demonstrated need for looping of water mains.
- ☐ Address an inability to maintain a disinfectant residual at all points in the distribution system.
- ☒ Address water storage facilities in poor condition.
- ☒ Provide the public water supply with a storage capacity equal to one day's average use.
- ☐ Provide the public water supply with adequate standby power.
- ☐ Provide necessary modifications to a source or treatment facility anticipated to exceed design capacity or useful life within the next 5 years.
- ☐ Address significant degradation of the quality of raw water supply.
- ☐ Address significant degradation of the quality of finished water in storage.
- ☐ Enable the public water supply to meet existing state requirements for the treatment or storage of waste residues generated by the water treatment plant.
- ☐ Enable repair or replacement of treatment facilities for required disinfection or turbidity removal that are severely deteriorated beyond the useful life of the facility.
- ☐ The facility's source is vulnerable to natural disasters (such as flood or drought) or contamination.
- ☐ The facility's treatment plant is vulnerable to natural disasters (such as flood or drought) or contamination.
- ☐ Project cost is for repair or replacement of an existing public water system damaged or destroyed by a natural disaster. (Note: Documentation must be submitted along with a statement that adequate state or federal disaster relief is not available).

#### Regionalization, Interconnection, and Security

The project will (check all that apply):

- ☐ Result in interconnections with other systems affected by drought or for upgrades to existing systems to address drought-related problems.
- ☐ Result in interconnections with other systems prone to flooding or for upgrades to existing systems to address flood-related problems.
- ☐ Provide necessary upgrades to facilities of a primary water system to continue or expand services as a regional water supplier.  
Name of system(s): \_\_\_\_\_
- ☐ Result in the permanent supply interconnection of two or more existing public water systems. (This includes new water systems that allow small water systems within their boundaries to consolidate).  
Name of system(s): \_\_\_\_\_
- ☐ Result in a regional management system responsible for the day-to-day operation of the water system.  
Name of system(s): \_\_\_\_\_
- ☐ Enable the public water supply to enhance the water system security.



**Technical, Managerial, and Financial Capacity Demonstration**

The community water system has the following technical, managerial, and financial capacity (check all that apply):

- ☐ The facility is located in a department-approved wellhead protection or source water protection area.
- ☐ At least 50% of the applicant's governing board has received training related to the management and operation of drinking water infrastructure. Please provide documentation of the training and a list of members who received the training.
- ☐ The community water system has a written operation and maintenance plan.
- ☐ The public water supply has completed an asset inventory.

DESCRIPTION OR ADDITIONAL COMMENTS

**CERTIFICATION**

The undersigned representative certifies the information submitted in this application is true and correct to the best of his or her knowledge and that he or she is authorized to sign and submit this application. The applicant agrees, if a loan is awarded on the basis of this application, to comply with all applicable rules and regulations of the Department of Natural Resources and the terms and conditions of the loan agreement. Furthermore, the applicant meets the requirements of 10 CSR 60-3.030 Technical, Managerial, and Financial (TMF) Capacity or will meet these requirements upon completion of the project. For more information regarding TMF Capacity, please contact the department's Financial Assistance Center at 573-751-1192. **Incomplete applications will be returned.**

SIGNATURE OF AUTHORIZED REPRESENTATIVE

DATE

NAME AND OFFICIAL TITLE

TELEPHONE NUMBER WITH AREA CODE

Ext.

**PREPARER'S NAME AND SIGNATURE (IF APPLICABLE)**

SIGNATURE OF PREPARER

DATE

NAME AND TITLE

TELEPHONE NUMBER WITH AREA CODE

Ext.



## Drinking Water State Revolving Fund Loan Application Instruction for 780-1845

Note: Any funding assistance is subject to all State Revolving Fund requirements. Potential applicants should contact the Missouri Department of Natural Resources' Financial Assistance Center (FAC) prior to completing and submitting an application. Please contact the Financial Assistance Center at 573-751-1192 or toll-free at 800-361-4827.

1. Print or type the applicant information. Include a street address if available. The applicant is the entity that will receive the loan funds, if awarded. Prior to receiving a loan, the entity must have a DUNS (Data Universal Numbering System) number. The DUNS number is a nine digit number established and assigned by Dun and Bradstreet Inc., or D&B, to uniquely identify business entities. A DUNS number is available from D&B by telephone at 866-705-5711 or at [fedgov.dnb.com/webform](http://fedgov.dnb.com/webform). The contact noted on the application should be knowledgeable about the application and able to be contacted during business hours.

2. Include the engineering firm name and the name of the professional engineer working on the project.

3. Show the population of the entire service area. The information included in Section 3 of the application will be used to determine the financial capability of the applicant with respect to the proposed project. Please provide the most accurate information available. Collection delinquency rate is defined as bills that are never collected, not bills that don't get paid by the due date but are eventually collected later.

Show the revenue minus expenses including operation and maintenance, replacement and debt service for the last fiscal year. Please include the beginning and end of the fiscal year if not using the calendar year. Provide the median household income based on the most recent decennial census.

Fill in the current rate for a 5,000 gallon user and what the estimated rate will be at project completion.

Provide the U.S. congressional district numbers, state Senate and state Representative district numbers for the project area.

4. Provide a brief project description.
5. Supply the cost estimates for the project. Land acquisition and easements may be eligible for a Drinking Water State Revolving Fund Loan as long as the property is needed for the project and is purchased from a willing seller. All applicants must follow the Uniform Relocation Act for SRF projects even if property or easements are not reimbursed with SRF funds. Please call the department's Financial Assistance Center at 573-751-1192 or 800-361-4827 for additional guidance concerning requirements needed when acquiring land and easements.

**NOTE:** Do not assume any grant funds. If you list grant funding, please provide a copy of the grant approval letter.

Provide a cost breakdown of construction costs by category of need. This amount should then be totaled and used to calculate the 10% contingency fee.

State the source of repayment for the loan, and if it is in place and available at this time.

6. The Planning and Design (P&D) loan program is designed to provide short-term financing to SRF applicants to pay for preliminary engineering costs that are incurred prior to SRF Construction loan closing. These P&D loans are made at 0.0% interest and have no administration fee. From the time the P&D loan closes the applicant will have up to 36 months to draw funds at which point the principle must be either repaid or the loan can be refinanced as part of the SRF construction loan. In the latter case the planning and design loan will assume the same interest rate as the SRF construction loan. For questions on this program please contact the Department's FAC at 573-751-1192.
7. Provide information about existing or proposed ballot issues. If a bond or tax issue has already been voted, please include the documentation related to the bond election for the project. The documentation should include, at a minimum:
  - The minutes and notice of the meeting approving the ordinance/resolution calling the election.
  - The ordinance/resolution calling the election.
  - The notice to the election authority.
  - A copy of the official ballot.
  - Abstract of votes/certification of election results.
  - Affidavit of publication of the notice of election.
  - The minutes and notice of the meeting approving the results of the election (if applicable).
  - Signed letter from applicant's local bond counsel on the validity of election and amount of voted authority remaining as of today's date.
8. Provide a project schedule that will be used to determine the applicant's readiness to proceed. Please review the Readiness to Proceed and Distribution of Funds Criteria found in Appendix 6 of the Drinking Water State Revolving Fund Intended Use Plan.
9. Check all boxes that apply to the proposed project and include descriptions or additional comments as needed. Additional information from these descriptions and a preliminary engineering report will help determine priority.

**Note:** Please look at the Missouri Drinking Water State Revolving Fund Priority Points Criteria found in Appendix 5 of the Drinking Water State Revolving Fund Intended Use Plan to help you to maximize the priority points received for the project.

## **Incomplete Applications will be Returned**

- Sign the application and attach any information that will enable the department to prioritize the drinking water needs.
- If funds from the Missouri Department of Economic Development – Community Development Block Grant Program will also be sought, please ensure information is included with this application.
- Make a copy of the completed application for your records.
- Mail the completed application to:  
Missouri Department of Natural Resources  
Financial Assistance Center  
P.O. Box 176  
Jefferson City, MO 65102-0176

## **For More Information**

Missouri Department of Natural Resources  
Water Protection Program  
Financial Assistance Center  
P.O. Box 176  
Jefferson City, MO 65102-0176  
800-361-4827 or 573-751-1192  
FAX: 573-751-9396

<https://dnr.mo.gov/water/business-industry-other-entities/financial-opportunities/financial-assistance-center>



## **Engineer's Report – for the City of Meta Monthly Board Meeting – January 12, 2021 (2<sup>nd</sup> Wednesday)**

**To:** Mayor and Board of Aldermen (City of Meta)

**From:** Blake Wilbers, Gary Davis, & Dillon Feely (Bartlett & West)

### **What we accomplished within the last month**

- Continued assisting the City with grant funding through CDBG for stormwater improvements.
- Assistance in providing coordination with Meramec Regional Planning Commission (MRPC) and preliminary park layouts for viewing.
- Made site visit to City to visually inspect stormwater issues throughout the community.
- Finished writing the Preliminary Engineering Report (PER) for stormwater improvements to help the City apply for CDBG funding.
- Started funding application for water system improvements.

### **What we plan to do this month**

- Address any comments on the stormwater PER and provide information to MRPC to be used toward the CDBG application.
- Continue to help the City coordinate with MRPC to develop a competitive CDBG grant project.
- Continued assistance with the park funding and design.
- Continue to provide on call services for the water system and any questions the City may have.
- Update the water system cost estimate and submit SRF application for funding.
- Provide software costs for GIS.

### **Upcoming events and conferences**

- None to note at this time.

### **Legislative and regulatory updates**

- The BCA has been uplifted and a return to compliance letter should have been sent to the City. Congratulations to the City and Deidra on bringing the City back into compliance!
- Future regulatory and legislative changes pertaining to the City's drinking water system will be listed in this section of the monthly report.

### **Funding opportunities**

- The next deadline for submitting a grant/loan application to DNR SRF for water system improvements is March 1<sup>st</sup>, 2022.
  - We are assisting in filling out this application and any additional paperwork needed.
  - A bond election should be scheduled for August of 2022.
- Applications for Community Development Block Grant funds are due January 31, 2022.

### **Other relevant topics**

- None at this time.

