

# WAUFORD

J. R. Wauford & Company, Consulting Engineers, Inc.  
www.jrwauford.com

February 22, 2019

Ms. Leslie Gillespie-Marthaler, Director  
State Revolving Fund Loan Program  
Division of Water Resources  
William R. Snodgrass Tennessee Tower  
312 Rosa L. Parks Avenue, 12<sup>th</sup> Floor  
Nashville, TN 37243-1102

Emailed: [Ask.SRF@tn.gov](mailto:Ask.SRF@tn.gov)

RE: 2019 SRF Water System Improvements  
Crossville, Tennessee  
Wauford Project No. 4638

Dear Ms. Gillespie-Marthaler:

The purpose of this letter is to request the subject Water System Improvements project be added to the 2019 Priority Ranking List to obtain SRF funds for the City of Crossville.

The City of Crossville operates two Water Treatment Plants (WTP), Meadow Park WTP and Holiday Hills WTP, with an average demand of 3.8 million gallons of water per day. Meadow Park WTP has a design capacity of 3.5 million gallons per day. Holiday Hills WTP has a design capacity of 4.0 million gallons per day. The proposed 10-inch water line will provide additional service in areas that cannot be served adequately by Holiday Hills WTP. The City of Crossville plans to expand the capacity of the water system in the future and this project is a portion of the future expansion.

We are seeking funding for the Water System Improvements (as shown at Exhibit No. 1, attached) consisting of the construction of a new 10-inch water transmission line which is estimated to cost \$585,000 as shown on Cost Estimate No. W-1 (attached).

Also attached is the State Revolving Fund Loan Program Questionnaire FY 2019 Priority Ranking Lists.

If you have any questions or comments, please do not hesitate to contact me.

Yours very truly,

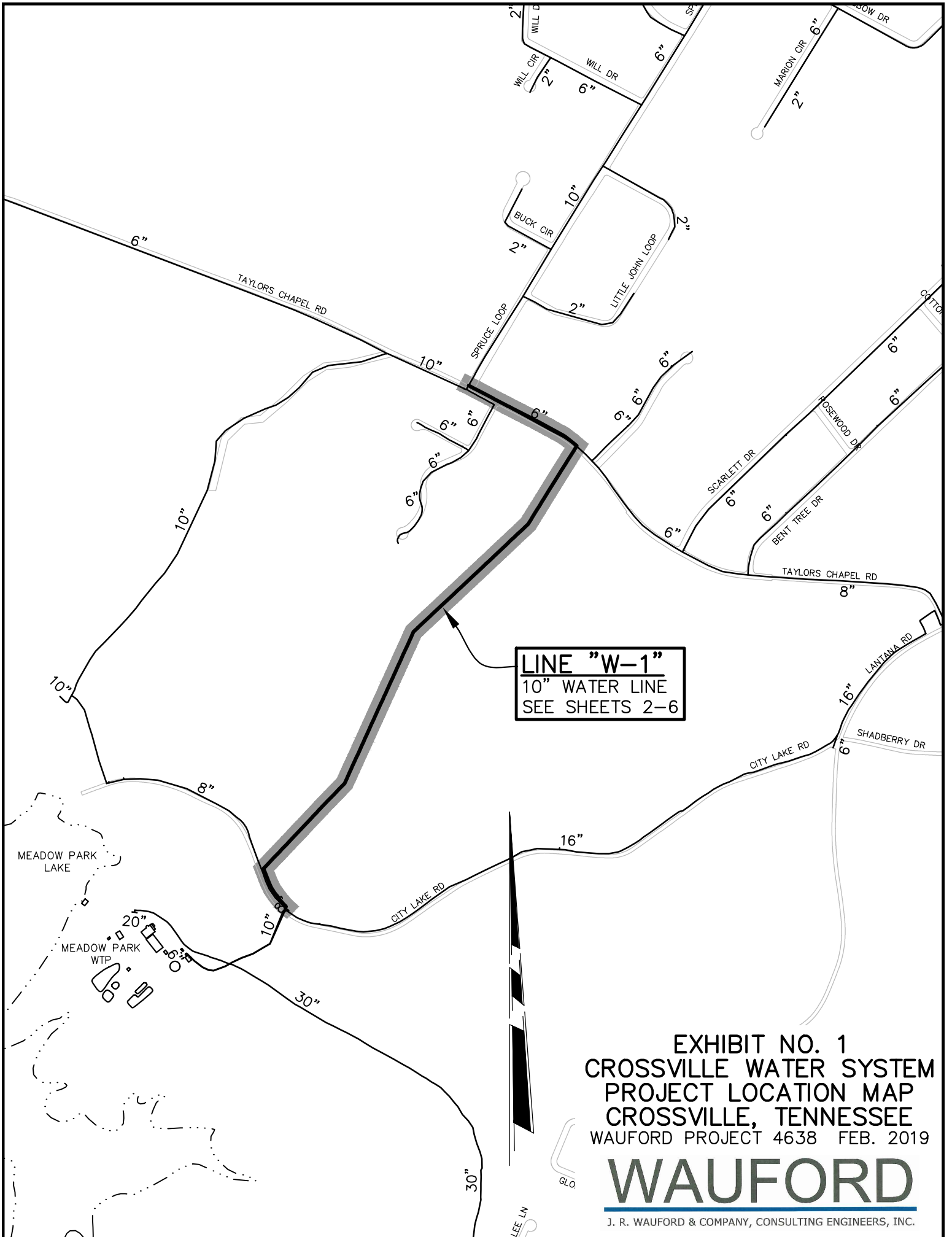
J. R. WAUFORD & COMPANY,  
CONSULTING ENGINEERS, INC.



Scott B. Carroll, P.E.  
Project Manager

## Attachments

cc: Felicia Freeman, Financial, [Felicia.D.Freeman@tn.gov](mailto:Felicia.D.Freeman@tn.gov)  
Greg Wood, City Manager, [greg.wood@crossvilletn.gov](mailto:greg.wood@crossvilletn.gov)  
Tim Begley, Director of Engineering, [tim.begley@crossvilletn.gov](mailto:tim.begley@crossvilletn.gov)  
Greg Davenport, P.E., Wauford, [gregd@jrwauford.com](mailto:gregd@jrwauford.com)  
Wauford, [4638@jrwauford.com](mailto:4638@jrwauford.com)



**LINE "W-1"**  
 10" WATER LINE  
 SEE SHEETS 2-6

**EXHIBIT NO. 1**  
**CROSSVILLE WATER SYSTEM**  
**PROJECT LOCATION MAP**  
**CROSSVILLE, TENNESSEE**  
 WAUFORD PROJECT 4638 FEB. 2019

**WAUFORD**

J. R. WAUFORD & COMPANY, CONSULTING ENGINEERS, INC.

COST ESTIMATE NO. W-1  
WATER SYSTEM IMPROVEMENTS  
MEADOW PARK LAKE WATER LINE  
CITY OF CROSSVILLE, TENNESSEE  
WAUFORD PROJECT NO. 4638

<u>Item</u>	<u>Quantity</u>	<u>Description</u>	<u>Unit Price</u>	<u>Cost</u>
1.	2 E.A.	Connection to Existing Water Line	\$ 5,000/E.A.	\$10,000
2.	5,860 L.F.	Install 10-inch PVC Water, Open Cut	\$ 50/L.F.	\$293,000
3.	30 L.F.	Install 10-inch DIP Water, Open Cut	\$ 70/L.F.	\$2,100
4.	80 L.F.	Install 10-inch RJDIP Water, Open Cut	\$ 75/L.F.	\$6,000
5.	3 E.A.	Install 10-inch Gate Valve	\$ 1,500/E.A.	\$4,500
6.	5 E.A.	New Air Release Valve Assembly	\$ 8,000/E.A.	\$40,000
7.	3 E.A.	New Blow-Off Assembly	\$ 5,000/E.A.	\$15,000
8.	6,000 L.F.	Roadway and Easement Repair	\$ 3/L.F.	\$18,000
9.	2 E.A.	Removal and Replacement of Driveways	\$ 2,000/E.A.	<u>\$4,000</u>
ESTIMATED CONSTRUCTION COST				\$392,600
CONSTRUCTION CONTINGENCIES (15%)				\$57,400
1. Budgeted for Construction				\$450,000
2. Engineering: Preliminary & Planning				\$25,000
Design				\$45,000
Bidding & Award				\$3,000
During Construction				<u>\$62,000</u>
TOTAL ESTIMATED PROJECT COST				\$585,000

ENR CONSTRUCTION COST INDEX – 11213 (February 2019)

# STATE REVOLVING FUND LOAN PROGRAM QUESTIONNAIRE FY 2019 PRIORITY RANKING LISTS

Please call 615-253-5134 with questions concerning completing this form.

1. CITY/CO/UD/AUTHORITY'S NAME	<u>City of Crossville, Tennessee</u>		
2. CONTACT PERSON	<u>Mr. Greg Wood</u>	PHONE	<u>(931) 484 – 7060</u> E-MAIL <u>greg.wood@crossvilletn.gov</u>
3. COUNTY(IES) SERVED	<u>Cumberland County</u>	CURRENT POPULATION SERVED	<u>30,743</u>
4. CITY/CO/UD/AUTHORITY'S 9-DIGIT DUNS NUMBER	<u>030668115</u>		
5. CONSULTING FIRM, if applicable.	<u>J.R. Wauford &amp; Company, Consulting Engineers, Inc.</u>		
6. CONSULTANT'S NAME	<u>J. Gregory Davenport, P.E.</u>	PHONE	<u>(615)883 – 3243</u> E-MAIL <u>gregd@jrwauford.com</u>

7. IS THIS REQUEST FOR:  Complete "A", "B", or "C"	CLEAN WATER SRF LOAN? _____	DRINKING WATER SRF LOAN? _____ <u>X</u>
	A. Associated NPDES Permit No./ SOP No. <u>TN</u>	C. Public Water System Number <u>TN0000150</u>
	B. Non-discharge Type _____	

8. BRIEF PROJECT DESCRIPTION Water Distribution Extension that will eliminate dead end line

9. PROJECTED CONSTRUCTION START DATE (10/2019) PROJECTED CONSTRUCTION END DATE (04/2019)

10. Please check <b>ONLY</b> 1 PRIMARY reason	<b>PRIMARY REASON FOR THE CW PROJECT</b>	<b>PRIMARY REASON FOR THE DW PROJECT</b>
	ACHIEVE COMPLIANCE _____	ACHIEVE COMPLIANCE _____
	MAINTAIN COMPLIANCE _____	MAINTAIN COMPLIANCE _____
	PUBLIC HEALTH/ PATHOGEN REDUCTION _____	PUBLIC HEALTH _____
	MEET FUTURE REQUIREMENTS _____	MEET FUTURE REQUIREMENTS _____
	INFRASTRUCTURE IMPROVEMENT _____	INFRASTRUCTURE IMPROVEMENT <u>X</u>
	REGIONALIZATION/ CONSOLIDATION _____	CONSOLIDATES SYSTEMS _____
	WATER REUSE/ RECYCLING/ CONSERVATION _____	WATER REUSE/ RECYCLING/ CONSERVATION _____
	GROUNDWATER PROTECTION _____	CREATES NEW SYSTEM _____
	WETLAND RESTORATION _____	OTHER*Please explain in the comments section on Page 2 _____
GROWTH _____		
OTHER*Please explain in the comments section on Page 2 _____		

11. TOTAL PROJECT AMOUNT –Amount should equal sum of next 3 rows.	<u>\$585,000</u>
FUNDING AMOUNT - SRF LOAN	<u>\$585,000</u>
FUNDING AMOUNT - CDB GRANT	_____
FUNDING AMOUNT - OTHER	_____

12. DOES PROJECT INCLUDE A GREEN COMPONENT? If so, please complete the following 4 rows as applicable.	
GREEN INFRASTRUCTURE (\$) Including All Engineering Costs, Etc.	_____
ENERGY EFFICIENCY (\$) Including All Engineering Costs, Etc.	_____
WATER EFFICIENCY (\$) Including All Engineering Costs, Etc.	_____
GREEN INNOVATIVE (\$) Including All Engineering Costs, Etc.	_____

**STATE REVOLVING FUND LOAN PROGRAM  
QUESTIONNAIRE  
FY 2019 PRIORITY RANKING LISTS**

Please call 615-253-5134 with questions concerning completing this form.

**THIS PAGE IS FOR CLEAN WATER (wastewater) PROJECTS ONLY**

From Rationale Sheet of Permit:    **HUC CODE** \_\_\_\_\_    **RECEIVING STREAM & River Mile** \_\_\_\_\_

**IS THE DISCHARGE LOCATION A 303(d)-LISTED STREAM?**

Yes \_\_\_\_\_ No \_\_\_\_\_

Use the *EPA Approved Final 2018 303(d) List*

**WWTP FLOW DATA (MGD)—TO BE COMPLETED FOR ALL WASTEWATER PROJECTS**

MUNICIPAL FLOW	CURRENT _____	PRESENT DESIGN _____	FUTURE DESIGN _____
INDUSTRIAL FLOW	CURRENT _____	PRESENT DESIGN _____	FUTURE DESIGN _____
INFILTRATION From Groundwater	CURRENT _____	PRESENT DESIGN _____	FUTURE DESIGN _____
TOTAL FLOW	CURRENT _____	PRESENT DESIGN _____	FUTURE DESIGN _____
WET WEATHER FLOW (PEAK)	CURRENT _____	PRESENT DESIGN _____	FUTURE DESIGN _____

**PLEASE COMPLETE ALL THAT APPLY**

**\*\*COSTS--Please include ALL associated costs (Should equal the total project amount shown in Item No. 11 on previous page)**

PROJECT DESCRIPTIONS	TYPE**	COSTS***
Collection System (new)	IV-A	\$
Collection System Expansion	IV-A	\$
Collection System Rehabilitation/Replacement	III-B	\$
Collection System Relocation	IV-A	\$
Combined Sewer Overflow (CSO) Correction	V-A	\$
Comprehensive Odor Control - Collection System	III-B	\$
Comprehensive Odor Control - WWTP	I	\$
CSO Correction: Green Infrastructure	V-B	\$
CSO Correction: Sewer Separation	V-A	\$
CSO Correction: Storage, Treatment, and Conveyance Facilities	V-A	\$
Decentralized Wastewater Treatment Systems	XII	\$
Effluent Force Main (new)	I	\$
Effluent Pump Station (new)	I	\$
Filter Press System (new)	I	\$
Force Main - Collector (new)	IV-A	\$
Force Main - Interceptor (new)	IV-B	\$
General Stormwater Management	VI-D	\$
Green Infrastructure	VI-C	\$
I/I (Infiltration/Inflow) Correction	III-A	\$

PROJECT DESCRIPTIONS	TYPE**	COSTS***
NPS Control: Ground Water Protection (Unknown Source)	VII-E	\$
NPS Control: Hydromodification	VII-K	\$
Outfall (new)	I	\$
Planning-only	XIII	\$
Pump Station - Collector (new)	IV-A	\$
Pump Station - Interceptor (new)	IV-B	\$
Pump Station Improvements	III-B	\$
Pump Station Repairs/Rehabilitation	III-B	\$
Recycled Water Distribution	X	\$
Sewer Interceptor (new)	IV-B	\$
Storm Water Management Programs	VI	\$
Stormwater Conveyance Infrastructure	VI-A	\$
Stormwater Treatment Systems	VI-B	\$
WWTP - Advanced Treatment (new)	II	\$
WWTP - Secondary Treatment (new)	I	\$
WWTP Expansion from ??MGD to ??MGD - Advanced Treatment	II	\$
WWTP Expansion from ??MGD to ??MGD- Secondary Treatment	I	\$
WWTP Improvements/Upgrade - Advanced Treatment	II	\$
WWTP Improvements/Upgrade - Secondary Treatment	I	\$
Other*Please explain in the comments section		\$

**COMMENTS:**