

# Issue Analysis Form



**Date:** September 27, 2022

**Item:** Award of Contract for Additional Services – Temple Avenue Water Storage Tank & Pumping Station

**Lead Department(s):** Engineering & Utilities

**Contact Person(s):** Frank Haltom

## Description and Current Status

WW Associates was awarded the contract for professional engineering services for the design of a new water storage tank, pumping station and water line to allow the County to deliver 2 million gallons per day (MGD) of water to Southpoint Business Park (SBP).

After surveying the alignment of the new waterline, the alignment is restricted by existing utilities and federally owned lands, see Map #1. Due to these restrictions, an alternative alignment for the water line is recommended. WW Associates investigated possible alternative routes and recommends an alignment as shown on the attached Map #2.

The proposed alignment avoids the railroad crossing and eliminates the need to jack and bore the water line under the railroad. The alignment also avoids a heavily congested area of existing utilities and avoids the intersection requiring significant traffic control. Avoiding these conditions will reduce construction costs and avoid time delays to gain easements from the federal government and the railroad company.

Additionally, WW Associates has provided a water model to demonstrate if 2 MGD can be achieved at SBP with the proposed improvements. The model has determined additional water line improvements are required along Allin road and Courthouse Road to deliver the volume of water required per the contract as shown on Map#3.

WW Associates has provided a fee proposal for the additional services to survey, design and complete the construction plans for the new alignment and for the additional design of the water line improvement along Allin Road and Courthouse Road for \$118,000. Staff recommends award of additional services to ensure the new water line has the capability of serving 2 MGD of water at the SBP.

**Sample Motion:** I move the Board approve the resolution to authorize the Change Order for additional services by WW Associates for \$118,000; and the appropriation of funds from the Utility Reserve Fund in the amount of \$118,000 to fund the costs of these services.

## Government Path

- |   |   |  |
|---|---|--|
| <b>Does this require IDA action?</b>                  | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No |
| <b>Does this require BZA action?</b>                  | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No |
| <b>Does This require Planning Commission Action?</b>  | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No |
| <b>Does this require Board of Supervisors action?</b> | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |

Does this require a public hearing?

Yes  No

If so, before what date?

### Fiscal Impact Statement

It is proposed to use Utility Reserve funds to cover the costs of these services. The following increase of funds within the 2022-2023 Budget will increase as follow:

<u>FUND/ORGANIZATION</u>		<u>AMOUNT</u>
<b>Utilities Fund</b>		
<b>Expenditures:</b>		
0620-04-104-7003-49172	Utilities – Transfer to CIP	\$118,000
<b>Revenues:</b>		
0620-40-900-8208-399999	Utilities Fund, Fund Balance	\$118,000
<b>CIP Fund</b>		
<b>Expenditures:</b>		
0311-04-104-3223-48405	CIP – Temple Avenue T& PS	\$118,000
<b>Revenues:</b>		
0311-90-901-8207-399104	CIP – Transfer from Utility Fund	\$118,000

### County Impact

Award of the change order will allow for engineering services to continue to complete the alternative alignment.

### Notes

None.

Board of Supervisors  
County of Prince George, Virginia

Resolution

At a regular meeting of the Board of Supervisors of the County of Prince George held in the Boardroom, Third Floor, County Administration Building, 6602 Courts Drive, Prince George, Virginia, this 27<sup>th</sup> day of September, 2022:

<u>Present:</u> Marlene J. Waymack, Chair Donald Hunter, Vice Chair Floyd M. Brown, Jr. Alan R. Carmichael T. J. Webb	<u>Vote:</u>
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A-4

On motion of \_\_\_\_\_, seconded by \_\_\_\_\_, which carried by a vote of \_\_\_\_\_ in favor and \_\_\_\_\_ opposed, the following Resolution was adopted:

**RESOLUTION: AWARD OF CONTRACT FOR ADDITIONAL SERVICES FOR THE EVALUATION, DESIGN, PERMITTING AND CONSTRUCTION ADMINISTRATION OF THE TEMPLE AVENUE WATER STORAGE TANK AND PUMPING STATION (\$118,000)**

**WHEREAS**, WW Associates was awarded a contract for professional engineering services for the design of a new water storage tank, pumping station and water line to allow the County to deliver 2 million gallons per day (MGD) of water to Southpoint Business Park; and

**WHEREAS**, the current alignment is restricted by existing utilities and federally owned lands, and an alternative alignment for the water line is recommended.

**WHEREAS**, WW Associates has provided a water model and determined additional water line improvements are required along Allin road and Courthouse Road to deliver the volume of water required per the contract; and

**WHEREAS**, the County has received a proposal from WW Associates for the additional services to survey, design and complete the construction plans for the new alignment and for the additional design of the water line improvement along Allin Road and Courthouse Road for \$118,000; and

**NOW, THEREFORE BE IT RESOLVED:** that the Board of Supervisors of the County of Prince George this 27th day of September, 2022, hereby awards the contract for

additional services to survey, design and complete the construction plans for the new alignment and for the additional design of the water line improvement along Allin Road and Courthouse Road for \$118,000.

**NOW, THEREFORE BE IT FURTHER RESOLVED:** that the Board of Supervisors of the County of Prince George this 27th day of September, 2022, does hereby authorize and appropriate the following increase of funds within the 2022-2023 Budget, such line items increased as follows, which monies shall be expended for purposes authorized and approved by the Board of Supervisors of the County of Prince George:

<u>FUND/ORGANIZATION</u>		<u>AMOUNT</u>
<b>Utilities Fund</b>		
<b>Expenditures:</b>		
0620-04-104-7003-49172	Utilities – Transfer to CIP	\$118,000
<b>Revenues:</b>		
0620-40-900-8208-399999	Utilities Fund, Fund Balance	\$118,000
<b>CIP Fund</b>		
<b>Expenditures:</b>		
0311-04-104-3223-48405	CIP – Temple Avenue T& PS	\$118,000
<b>Revenues:</b>		
0311-90-901-8207-399104	CIP – Transfer from Utility Fund	\$118,000

A Copy Teste:

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Jeffrey D. Stoke  
County Administrator



September 6, 2022

Mr. Frank Haltom, P.E.  
Director of Engineering & Utilities  
Prince George County  
P.O. Box 68  
Prince George, VA 23875

Re: Fee Proposal for Additional Services for River Road Water Storage Tank and Pumping Station

Dear Mr. Haltom:

We are pleased to submit this engineering fee proposal to provide additional services for the referenced project.

#### Alternate Waterline Route – Vulcan Property

Based on survey services associated with the original contract, we have determined that River Road has inadequate right of way for the dual 24-inch diameter right of way. Adjacent property belongs to Fort Lee on both sides of the road.

We therefore have determined an alternate route as indicated in the attached graphic. This route will follow an old railroad spur on Vulcan property, power line easement, and the property line between the Vulcan property and Fort Lee. This route has the advantage of eliminating a jack and bore under the railroad and another jack and bore under Temple Avenue. This newly proposed route is approximately 2,618 feet. Soil borings along this route are proposed to ensure the route does not include crossing a landfill.

#### Allin Road/Courthouse Road Waterline

Upon generating a water model between River Road pump station and Southpoint Industrial Park, we determined there is a 12-inch waterline along Allin Road and Courthouse Road that creates a flow restriction to the goal of generating 3.0 – 3.5 MGD at the River Road pump station without excessive pressure on the water mains.

We therefore propose to survey and design an additional 12-inch waterline along this same route to alleviate this flow restriction. The existing and new waterlines will be connected to each other to allow for the flow equivalent of a 24-inch diameter waterline. This new 12-inch waterline is approximately 5,160 feet.

P.O. Box 4119 ■ Lynchburg, VA 24502  
Telephone (434) 316-6080 ■ Fax (434) 316-6081

Lynchburg ■ Charlottesville

We propose to provide these engineering services in accordance with the following fee schedule:

<u>Task</u>	<u>Lump Sum Fee</u>
Design Phase, Vulcan Route	\$ 26,000
Easement Plat Preparation, Vulcan Route	\$ 2,500
Soil Borings, Vulcan Route	\$ 10,000
Wetland Delineation, Vulcan Route	\$ 5,000
Design Phase, Allin /Courthouse Route	<u>\$ 75,000</u>
Total	\$ 118,500

This proposal is based on the following considerations:


1. This proposal includes submission of stormwater management plans for the additional waterline routes.
2. The Allin Road/Courthouse Road waterline route is in VDOT right of way and therefore does not include preparation of easement plats.
3. Construction inspection services may be provided under separate proposal, if needed.

Invoicing for services will be monthly based upon our estimate of percent completion. Payment for these services will be within 30 calendar days from the time the bill is issued by WW Associates, Inc. We are available to proceed immediately with this project.

We look forward to the opportunity to work with you on this project. Should this proposal be deemed acceptable, please issue a purchase order which will be considered our Notice to Proceed.

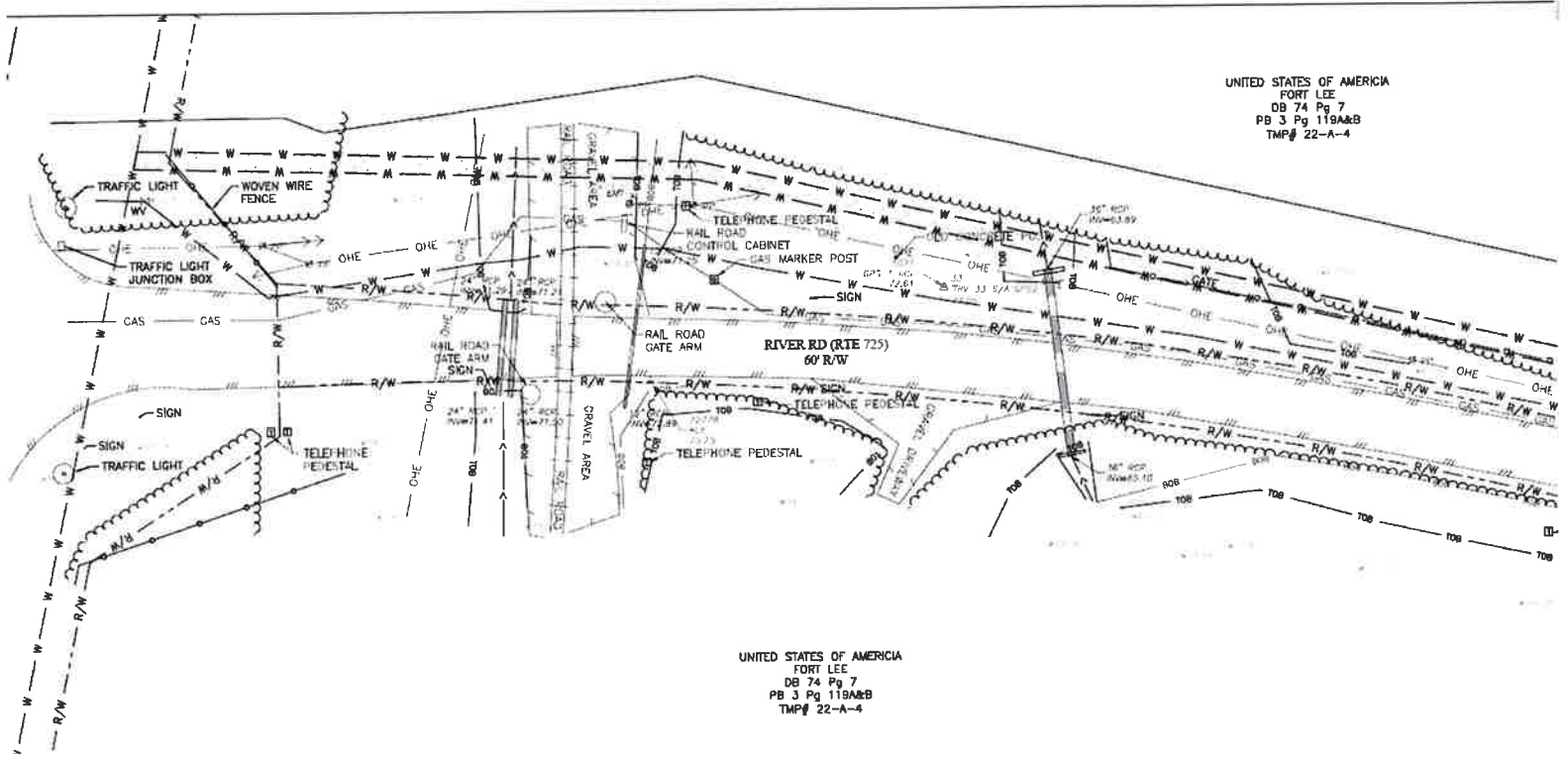
Sincerely,

WW Associates, Inc.



Herbert F. White, III, P.E.  
President

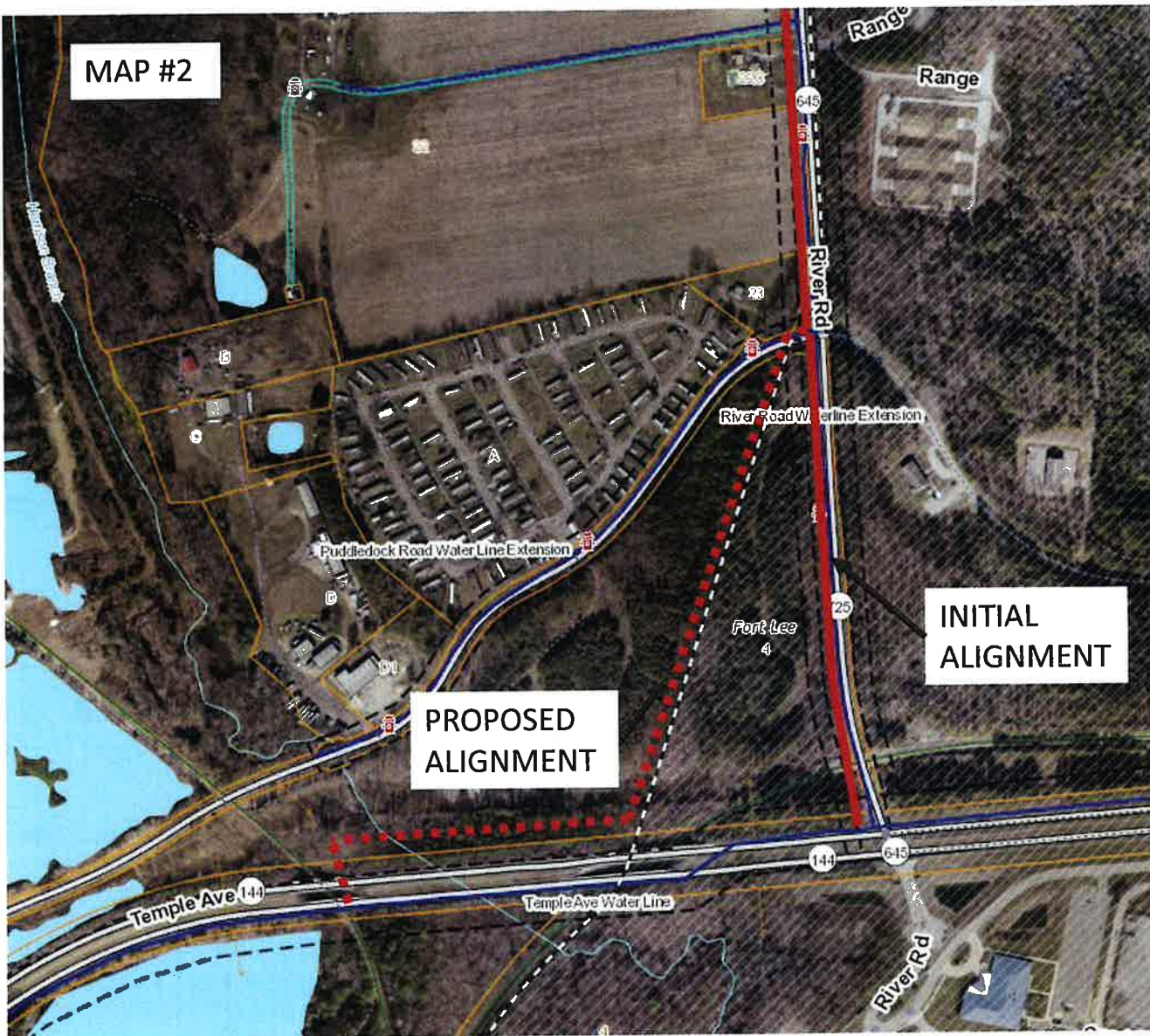
# MAP #1



UNITED STATES OF AMERICA  
FORT LEE  
DB 74 Pg 7  
PB 3 Pg 119A&B  
TMP# 22-A-4

UNITED STATES OF AMERICA  
FORT LEE  
DB 74 Pg 7  
PB 3 Pg 119A&B  
TMP# 22-A-4

MAP #2



PROPOSED ALIGNMENT

INITIAL ALIGNMENT

Temple Ave 144

Temple Ave Water Line

144

645

Fort Lee 4

River Road Water Line Extension

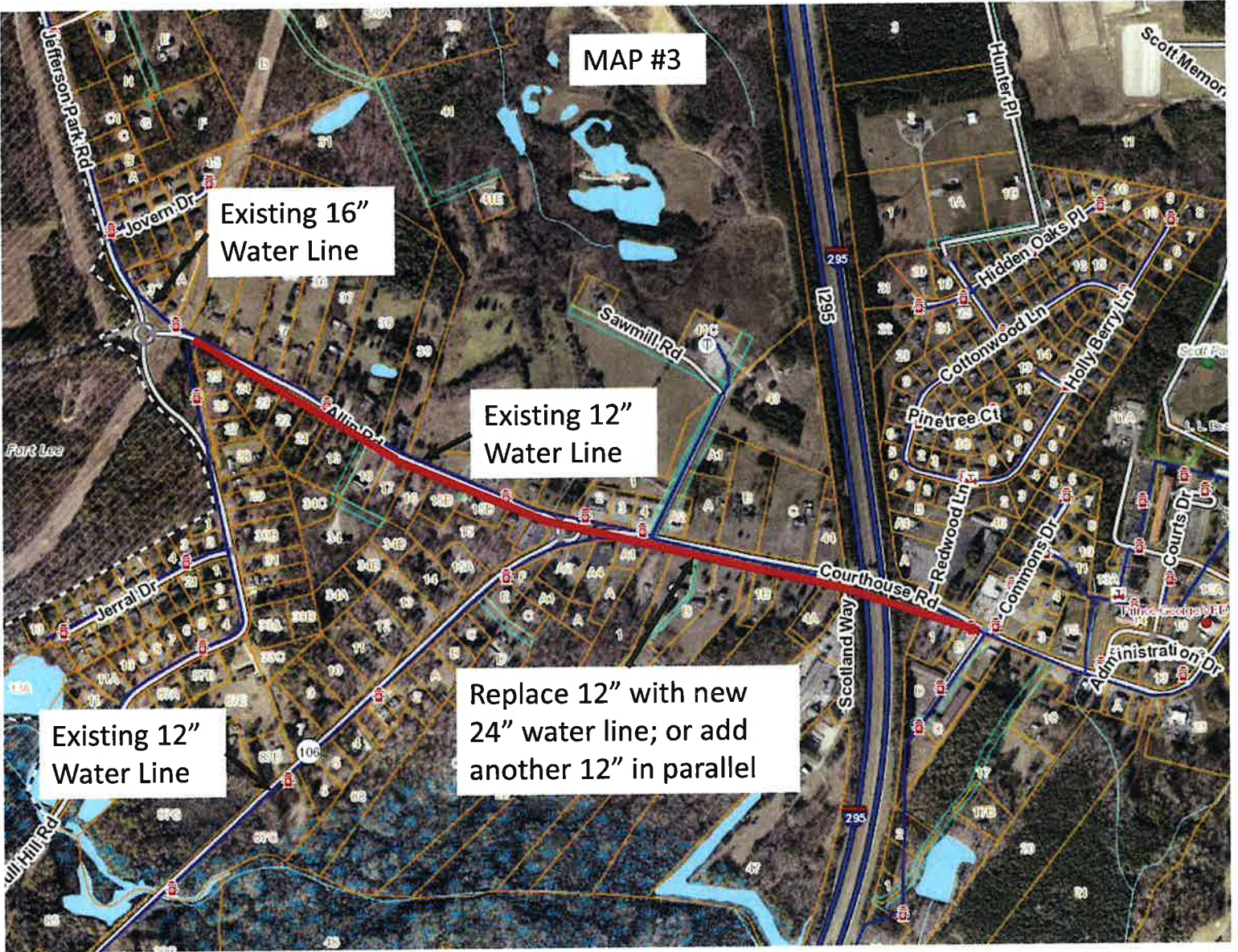
River Rd

Range

Range

River Rd





MAP #3

Existing 16" Water Line

Existing 12" Water Line

Existing 12" Water Line

Replace 12" with new 24" water line; or add another 12" in parallel