



RESOLUTION 03 - 2022

OF THE VILLAGE OF ASHVILLE



A RESOLUTION AUTHORIZING AND DIRECTING THE VILLAGE ADMINISTRATOR AND FISCAL OFFICER TO EXECUTE A WATER MODELING AGREEMENT WITH TEBBE CIVIL AND DECLARING AN EMERGENCY

www.ashvilleohio.gov

WHEREAS, Village Council is responsible for the health and safety of the Village of Ashville; and
WHEREAS, Village Council is responsible for approving expenditures for the Village of Ashville; and
WHEREAS, Council for the Village of Ashville now wants to retain the services of Christopher Tebbe, P.E. of Tebbe Civil to complete a Model of the Water Services of the Village of Ashville.

NOW, THEREFORE, be it resolved by the Village of Ashville Council

SECTION ONE

Council for the Village of Ashville hereby authorizes and directs the Village Administrator and Fiscal Officer to execute a Water Modeling Service Agreement hereto as Exhibit A and incorporated herein by reference, Christopher Tebbe – Ohio, LLC.

SECTION TWO

All prior legislation, or any parts thereof, which is/are inconsistent with this Resolution is/are hereby repealed as to the inconsistent parts thereof.

SECTION THREE

Council declares this to be an emergency measure immediately necessary for the preservation of the public peace, health, and safety of the Village and the further reason that the Village needs to execute this agreement as soon as possible so as to not delay this project (and the amended language simply better explains the Parties understanding of the original agreement). Wherefore, provided this Resolution receives the required affirmative votes of Council, this Resolution shall take effect and be in force immediately upon passage by Council.

Offered by: Nelson R. Embrey

Seconded to the Motion Offered by: Steve Welsh

Upon roll call on the adoption of the resolution, the vote was as follow:

Council Member	Yes	No	Council Member	Yes	No	Council Member	Yes	No	Council Member	Yes	No	Council Member	Yes	No	Council Member	Yes	No
Roger L. Clark	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Nelson R. Embrey	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Randy S. Loveless	<input checked="" type="checkbox"/>	<input type="checkbox"/>	R. David Rainey	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Matt Scholl	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Steve Welsh	<input checked="" type="checkbox"/>	<input type="checkbox"/>

THIS 24TH DAY OF JANUARY, 2022.

ATTEST:

April D. Grube, Clerk-Fiscal Officer

DATE: 1/28/2022

APPROVED:

Charles K. Wise, Mayor

DATE: 28 JAN 2022

Prepared: 01/19/2022
Revised Date:
Review Date:

CERTIFICATE OF RECORDING OFFICER

I, the undersigned, hereby certify, that the foregoing is a true and correct copy of the resolution adopted by the Village of Ashville Council held on 24th day of January 2022, and that I am duly authorized to execute this certificate.



(Original signature of April D. Grube) Clerk-Fiscal Officer
(TITLE)

**TEBBE
CIVIL
ENGINEERING, LLC**

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Dublin, Ohio 43016-2237
Phone (614)845-58857
Web www.tebbecivil.com

Transmitted Via Email: fchristman@ashvilleohio.gov

January 18, 2022

Mr. Franklin Christman
Village Administrator - Village of Ashville
200 East Station Street
Ashville, Ohio 43103

RE: Ashville Water System Analysis Model
(Proposal P1020r)

Dear Mr. Christman:

We are pleased to submit this proposal to prepare a water system analysis study for the public water system located in the Village of Ashville. The Village of Ashville operates a public water system (PWS # OH6500012) that is regulated by the Ohio EPA. This water system consists of approximately 23 miles of public water mains, one water treatment plant, three water towers, several hundred fire hydrants, thousands of water services, and an emergency connection.

As part of the Water Asset Management Program, we prepared mapping of the current water system based on the GPS located hydrants, valves, meters and services. We have included a copy of this mapping with this proposal for your reference. This project will build onto the existing information and will become a component of the overall asset management plan for the Village. In addition, there are significant development pressures that are going to put pressure on the water distribution system.

BACKGROUND INFORMATION AND ASSUMPTIONS

The Village of Ashville operates a public water system and water treatment facilities. The purpose of this project is to strengthen the water system utility management program. The ability to determine what assets the Village has, their condition, locate deficiencies and to determine necessary capital improvements is crucial to be able to provide the best service and appropriate rates to their customers. This model is more important than ever with the rapid interest in development within the Village. It is imperative that the limitations of the existing system be modeled. This model will help with understanding the current demands of the system, future demands placed on the system due to development, and planning for new water towers and water plant. It will also accurately assess the impact of temporary connections for additional capacity.

Based on discussions with staff and our understanding of the project our proposal is based on the following assumptions:

- We will utilize current Pickaway County GIS information, Village of Ashville mapping and State of Ohio LIDAR data to determine the horizontal location and vertical data for the study area. Field verification of invert elevations are not included in this proposal. If field survey work is needed, we can provide a proposal to verify existing elevations.

Water Model (P1020r)
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- Information for the existing water plant, water towers, well field, backflow prevention and pumps present in the water system will be based on record plans and field visits with Village staff to determine model parameters.
- The Village of Ashville has an emergency connection with the Village of South Bloomfield. The extent of the modeling will end at this emergency connection. However, we will need to meet with South Bloomfield staff to determine the impact the connection has with the Village of Ashville Water System.
- The Village has completed an inventory of the water system by locating all visible structures with GPS equipment and visual inspections. We will supplement the existing inventory of the water system with visual inspection of valves, hydrants, tanks and treatment facilities.
- The Village is looking to replace the existing water tower at West Station Street and Cromley Street due to age and needs to determine the best location for a new tower.

SCOPE OF WORK

We propose to provide the following civil engineering services (as necessary) to prepare a water system analysis study:

Task A – Water System Condition Assessment:

For this task, this proposal shall involve preparing the following items:

- 1) Conduct Hydrant Testing and pressure monitoring. We will work with Village staff to direct hydrant testing within the Village. This work will involve determining the location of hydrant tests with Village staff and processing the hydrant test results.
- 2) Assess condition of water system.
- 3) Assess wells and water treatment facilities.
- 4) Review reports of leaks, line breaks and other maintenance to determine areas in poor condition.
- 5) Review water production and meter data and evaluate system water loss.
- 6) Review existing towers with Village Staff to determine existing parameters and limiting factors.

Task B – Prepare Water System Model and GIS Map:

For this task, this proposal shall involve preparing the following items:

- 1) Utilize GPS mapping information and condition assessment to develop a GIS map and water model of the existing system. We will utilize the Bentley WaterCAD program to create the water model.
- 2) Calibrate model based on hydrant testing. (We have included an informational flier discussing the capabilities of the WaterCAD software.)
- 3) Physical and operational attributes for model for major system components.
- 4) Scenarios for Fire Flow (FF), Maximum Day Demand (MDD), Average Day Demand (ADD), MDD+FF, and Peak Hour Demand (PHD).
- 5) Utilize water model to determine hydraulic deficiencies.
- 7) Identify major facility, valve, and hydrant locations.
- 8) Provide pressure mapping exhibits for use by the Village.

Task C – Prepare Summary Report:

For this task, this proposal shall involve preparing the following items:

- 1) Provide an executive level summary of the work performed and conclusions made. This report will also include next steps to be taken for evaluation of proposed Earnhart Hill Connection, new water tower, future water plant, and other capacity analyses due to proposed private development.

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SCHEDULE OF FEES

We propose to provide consulting engineering services for this project on an hourly basis plus expenses according to our attached general terms and conditions with the following estimated maximum fees:

I. Task A – Water System Condition Assessment	\$ 5,220
II. Task B – Prepare Water System Model and GIS Map	\$ 14,340
III. Task C - Prepare Summary Report	\$ 3,180
IV. Expenses	<u>\$ 750</u>
Total Estimated Maximum Fee	\$ 23,490

We appreciate the opportunity to provide this proposal and look forward to the opportunity to work with the Village on this project.

If you have any questions or need any additional information, please feel free to contact me at (614) 845-5885.

Sincerely,
Tebbe Civil Engineering, LLC.



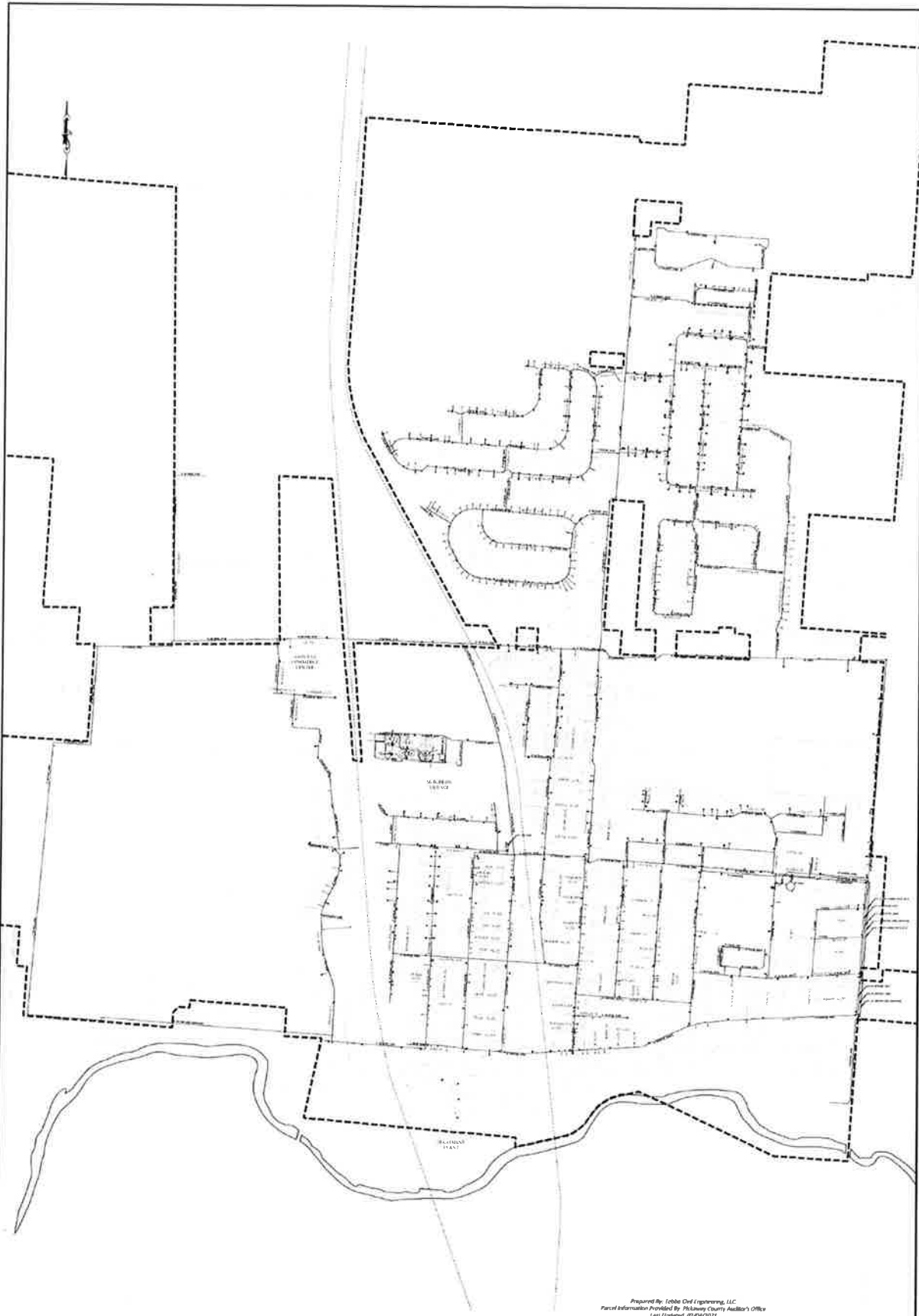
Christopher M. Tebbe, P.E.
Owner

Encl.

Tebbe Civil Engineering, LLC
Scope of Services and Schedule of Fees
Village of Asheville
Ashville Water System Analysis Model
Services Proposal

1/18/2022

Description of Services	PM 120	Design Engineer 75	Expenses Base Fee	Labor Base Fee
Ashville Water System Analysis Model (P1020r)				
Task A - Water System Condition Assessment				
Yes Conduct hydrant tests				
Yes Assess condition of water system, wells, towers and treatment				
Yes Review leak and line break records				
Yes Review water production and evaluate water loss				
Yes Review existing towers				
Subtotal	36	12		
Task B - Prepare Water System Model and GIS Map				
Yes Develop an existing water model in WaterCAD				
Yes Calibrate model based on hydrant results				
Yes Run: FF, MDD, ADD MDD+FF PHD Scenarios				
Yes Use model to determine deficiencies				
Yes Identify major facilities				
Yes Prepare pressure mapping exhibits				
Subtotal	72	76		
Task C - Prepare Summary Report				
Yes Prepare Executive Summary Report Report				
Subtotal	24	4		
Expenses				
Yes Expenses: mileage, copies of plans for review, delivery, etc.				
Subtotal				
Total Estimated Fee	132	92	\$23,490	



Prepared By: Terbo Civil Engineering, LLC
Parcel Information Provided By: Pickaway County Auditor's Office
Last Updated: 02/04/2022

1	Scale	Graphic Scale
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WATER ATLAS MAP
THE VILLAGE OF ASHVILLE
PICKAWAY COUNTY, OHIO



TERBO
CIVIL
ENGINEERING, LLC

Project No.	
Sheet No.	
Date	