

COMMONWEALTH OF KENTUCKY

BEFORE THE KENTUCKY PUBLIC SERVICE COMMISSION

IN THE MATTER OF:

ELECTRONIC APPLICATION OF THE)
 WESTERN MASON COUNTY WATER DISTRICT)
 FOR THE ISSUANCE OF A CERTIFICATE)
 OF PUBLIC CONVENIENCE AND NECESSITY)
 TO CONSTRUCT A WATER SYSTEM)
 IMPROVEMENTS PROJECT AND AN ORDER) Case No. 2024 - 00107
 AUTHORIZING THE ISSUANCE OF SECURITIES)
 PURSUANT TO THE PROVISIONS OF)
 KRS 278.020, KRS 278.300 AND 807 KAR 5:001)

** *** **** ***** **** *** **

RESPONSE TO COMMISSION STAFF’S FIRST REQUEST FOR INFORMATION

The Applicant, Western Mason County Water District ("Western Mason District"), by Counsel, files this Response to the May 9, 2024 Commission Staff’s First Request for Information set forth below.

Request No. 1. Refer to the Application, Exhibit A, describing the proposed waterline replacement and extensions.

(a) State if Western Mason District considered using any material other than PVC, and if so, state what material was considered and why PVC was the least cost, reasonable alternative.

Witness: Paul Reynolds, Bluegrass Engineering, PLLC

Response No. 1(a). Western Mason District considered using ductile iron but due to the cost of material and installation, chose PVC as the most economically feasible for the system.

(b) State how Western Mason District determined the appropriate diameter of pipe for each section of the project.

Witness: Paul Reynolds, Bluegrass Engineering, PLLC

Response No. 1(b). The diameter of pipe for each section of the project was recommended by the Engineer after performing a hydraulic analysis of the distribution system. A copy of the hydraulic analysis is being filed with this Response.

(c) State the current age of the existing waterlines that Western Mason District is seeking to replace.

Witness: David French, General Manager, Western Mason County Water District.

Response No. 1(c). The age of the existing waterlines to be replaced ranges from the late 1950's to the late 1960's/early 1970's.

(d) State the cause of the deterioration of the current waterlines that Western Mason District is seeking to replace.

Witness: David French, General Manager, Western Mason County Water District.

Response No. 1(d). The deterioration is caused by the age of the pipes and normal wear and tear.

Request No. 2. State how Western Mason District determined that a new booster pump station was needed.

Witness: Paul Reynolds, Bluegrass Engineering, PLLC

Response No. 2. Based upon the hydraulic analysis performed by the Engineers and after reviewing customer growth and increased demands from wholesale customers, it was determined

that a new booster pump station would provide more efficiency in meeting current and future demands.

Request No. 3. State if the land needed for the booster pump station is already owned or leased by Western Mason District or if land will need to be acquired.

Witness: David French, General Manager, Western Mason County Water District.

Response No. 3. Western Mason District already owns the land where the booster pump station will be installed.

Request No. 4. State if Western Mason District considered alternatives to installing an above ground booster pump station and why the specific booster pump station was chosen.

Witness: Paul Reynolds, Bluegrass Engineering, PLLC

Response No. 4. Western Mason District considered a below ground pump station but due to OSHA regulations and confined space requirements, the above ground pump station was chosen.

Request No. 5. State if Western Mason District considered any alternative locations for the booster pump station and why the location was chosen.

Witness: Paul Reynolds, Bluegrass Engineering, PLLC

Response No. 5. Western Mason District considered other locations but after review of the hydraulics and in trying to provide the most cost effective solution to its customer base, it was decided to use the selected site as it was already owned by Western Mason District and would not require the additional capital expenditure in purchasing additional property.

Request No. 6. State if above ground booster pumps are currently in use, and if so, state the age of any above ground booster pump stations.

Witness: David French, General Manager, Western Mason County Water District.

Response No. 6. Currently, no above ground booster pump stations are in use.

Request No. 7. State what system is currently in place to provide water to the southern part of the distribution system and why the pump station is now required.

Witness: David French, General Manager, Western Mason County Water District.

Response No. 7. Western Mason District currently has a total of two below ground booster pump stations that move water throughout the distribution system. Due to customer growth over the years and the addition of wholesale customers, a larger more efficient booster pump station is now required to continue to meet the demands of the current customer base and potential future growth.

Request No. 8. Explain the approximate percentage of total customers that the installation of a new above ground pump station will benefit.

Witness: David French, General Manager, Western Mason County Water District.

Response No. 8. Approximately fifty percent (50%).

Request No. 9. State the expected costs of operation and maintenance of the proposed pump station.

Witness: David French, General Manager, Western Mason County Water District.

Response No. 9. Approximately \$5,000 per year.

Request No. 10. Provide a breakdown showing the number of each type of meter currently used on Western Mason District's system by make and model.

Witness: David French, General Manager, Western Mason County Water District.

Response No. 10. Badger Orion Model No. 25	825 total meters
Sensus AR4001	8 total meters
Master Meter Allegro	430 total meters

Request No. 11. Explain what Western Mason District intends to do with the remaining undepreciated value of the older meters being replaced.

Witness: David French, General Manager, Western Mason County Water District.

Response No. 11. Once the meters are scrapped, they will be removed from depreciation and when sold, our CPA will do the calculations to figure a gain or loss to the depreciation numbers.

Request No. 12. Explain what Western Mason District intends to do with the meters that will be replaced.

Witness: David French, General Manager, Western Mason County Water District.

Response No. 12. The meters will be scrapped to obtain any residual value from them.

Request No. 13. State whether Western Mason District currently uses an AMR or AMI system for meter reading, and if so, describe the type of system and identify those meters that Western Mason District currently uses that are compatible with that system.

Witness: David French, General Manager, Western Mason County Water District.

Response No. 13. Western Mason District currently uses three AMR systems (badger, Sensus and Master Meter). With the new meters, Western Mason District will eliminate two of these systems and integrate everything into one system.

Request No. 14. State whether Western Mason District is seeking approval to only install the meters or whether Western Mason District is also seeking authorization to purchase the meters.

Witness: David French, General Manager, Western Mason County Water District.

Response No. 14. Western Mason District is seeking approval to purchase and install the meters.

Request No. 15. State whether Western Mason District already owns 825 radio read meters, and if so, when the meters were purchased; the cost of purchasing the meters; and if Western Mason District sought a CPCN from the Commission for the purchase of the meters and if not, why.

Witness: David French, General Manager, Western Mason County Water District.

Response No. 15. Western Mason District does not currently own the meters. The project that is the subject of this Case involves the purchase and installation of the 825 meters.

Request No. 16. State the make and model of the meters that will be installed.

Witness: David French, General Manager, Western Mason County Water District.

Response No. 16. Master Meter Allegro 5/8" x 3/4" meter.

Request No. 17. State why Western Mason District choose the particular make and model of meter, what alternatives were considered, and why the meters selected were chosen over the alternatives.

Witness: David French, General Manager, Western Mason County Water District.

Response No. 17. Western Mason District personnel have over 60 years of experience in the water industry and have experience with various types of meters and regularly attend industry trade shows and communicate with their colleagues in the industry. Using this information and the fact that approximately on half of their customer meters are already Master Meters, they chose to maintain uniformity throughout the system with the Master Meters. Said personnel are pleased with the performance of the Master Meters and the service provided by the suppliers of Master Meters.

Request No. 18. State if the installation of the radio read meters will also require the

purchase and installation of equipment, computers, or software, to read the new meters, and if so, provide the estimated cost of that equipment and state how Western Mason District intends to pay for that equipment.

Witness: David French, General Manager, Western Mason County Water District.

Response No. 18. No additional equipment, computers, or software is necessary. Western Mason District previously acquired all necessary equipment, computers and software in a prior project that was authorized pursuant to a CPCN granted on September 22, 2020 in **PSC Case No. 2020-00198**.

Request No. 19. State the age of the current meters.

Witness: David French, General Manager, Western Mason County Water District.

Response No. 19. The age of the current meters ranges from five days to 25 years.

Request No. 20. State the remaining useful life of the current meters.

Witness: David French, General Manager, Western Mason County Water District.

Response No. 20. The current meters have a remaining useful life of 0 years to 20 years.

Request No. 21. State when the current meters were last tested.

Witness: David French, General Manager, Western Mason County Water District.

Response No. 21. The current meters were tested prior to installation and then replaced prior to the ten year test period.

Request No. 22. State the expected service life for the proposed meters and provide any engineering reports or manufacturing data that support that expected service life.

Witness: David French, General Manager, Western Mason County Water District.

Response No. 22. Master Meters have an expected battery life of 20 years (see attached **Exhibit 22**).

Request No. 23. State the expected cost of operation and maintenance of the new meters.

Witness: David French, General Manager, Western Mason County Water District.

Response No. 23. Western Mason District personnel time in reading the new meters is approximately \$10,000 per year.

Request No. 24. State the expected cost of operation and maintenance of the existing meters.

Witness: David French, General Manager, Western Mason County Water District.

Response No. 24. Western Mason District personnel time in reading the existing meters is approximately \$15,000 per year.

Request No. 25. Provide any hydraulic analysis models, maps, or other documents relating to the booster pump station and the water lines that are to be replaced.

Witness: Paul Reynolds, Bluegrass Engineering, PLLC

Response No. 25. See attached **Exhibit 25** and the hydraulic analysis which is being filed with this Response.

Request No. 26. Refer to the Application, Exhibit B, Distribution-Major Construction documents, in which the right side of the text has been cut off, provide that document in its entirety by resubmitting the documents showing the entire page.

Witness: Paul Reynolds, Bluegrass Engineering, PLLC

Response No. 26. See attached **Exhibit 26**.

Request No. 27. Refer to the Application, Exhibit I. Provide a .pdf or legible copy of the chart in Exhibit I, page 1.

Witness: Paul Reynolds, Bluegrass Engineering, PLLC

Response No. 27. A .pdf of Exhibit I in its entirety is being filed with this Response.

Request No. 28. Refer to the Motion to Expedite and the Application, and state whether Western Mason District is seeking approval for a loan from the Rural Water Financing Agency or a loan issued by the Kentucky Rural Water Finance Corporation.

Witness: Paul Reynolds, Bluegrass Engineering, PLLC

Response No. 28. Western Mason District is seeking a loan from the Rural Water Financing Agency. The Application mistakenly referred to the lending agency as the Kentucky Rural Water Finance Corporation. The Rural Water Financing Agency is the successor to the Kentucky Rural Water Finance Corporation and is the entity making the loan to Western Mason District.

Request No. 29. State the terms of the loan, including, but not limited to, the term of the loan, the interest rate, and any service charges or fees.

Witness: Paul Reynolds, Bluegrass Engineering, PLLC

Response No. 29. The preliminary numbers relating to the loan are attached to the Application as Exhibit C and include the term, estimated interest rates and costs of issuance. The final loan terms will not be known until the Bonds that fund the loan are sold by the Rural Water Financing Agency. Western Mason District will file the final loan terms (including the final principal amount) as soon as same are known.

Request No. 30. Provide any documents including preliminary documents available from the organization offering the loan.

Witness: Paul Reynolds, Bluegrass Engineering, PLLC

Response No. 30. The loan is being issued pursuant to an Assistance Agreement between the Rural Water Financing Agency and Western Mason District. A draft copy of the Assistance Agreement is being filed with this Response. Such Agreement will not be finalized until the Bonds are sold by the Rural Water Financing Agency.

Request No. 31. Explain how bids were solicited for the proposed projects, whether through direct solicitation, publication, or another method. If solicited through publication, provide a copy of the publication and state the days on which it was published.

Witness: Paul Reynolds, Bluegrass Engineering, PLLC

Response No. 31. The bids were solicited through publication which was published on March 30, 2024. The affidavit of publication and tearsheet are attached hereto as **Exhibit 31**.

Request No. 32. State which contractor's bids Western Mason District has selected.

Witness: Paul Reynolds, Bluegrass Engineering, PLLC

Response No. 32. Western Mason District selected B.P. Pipeline, LLC for Contract 1 and Ferguson Waterworks for Contract 2.

Request No. 33. State what factors were taken into consideration in selecting a winning bid.

Witness: Paul Reynolds, Bluegrass Engineering, PLLC

Response No. 33. Western Mason District, with the assistance of the Engineers, evaluated the bids based on the total cost submitted and then checked the references and past experience of the lowest bidder. Generally, the Engineers are familiar with the bidders and can make a

recommendation as to whether the owner should accept or reject the lowest bidder. The Engineer performed its evaluation and submitted its letter of recommendation to Western Mason District and such bids were accepted. A copy of the Engineers letter of recommendation is attached hereto as **Exhibit 33**.

Request No. 34. State whether Bluegrass Engineering made any recommendations regarding bid selection, and if so, provide a copy of those documents.

Witness: Paul Reynolds, Bluegrass Engineering, PLLC

Response No. 34. Bluegrass Engineering did make a recommendation to Western Mason District. See **Exhibit 33** referred to above.

Request No. 35. State if any other bids were received for the purchase and installation of 5/8" x 3/4" Radio Read Meters, specifically, Contract 2, other than from Ferguson Waterworks.

Witness: Paul Reynolds, Bluegrass Engineering, PLLC

Response No. 35. No other bids were received as there is only one supplier (Ferguson Waterworks) within the Commonwealth of Kentucky that provides the desired Master Meter Radio Read Meter.

Request No. 36. Refer to the Application, Exhibit D, provide a detailed explanation for the Proposed Funding item titled "Local Contributions" in the amount of \$76,002.

Witness: Paul Reynolds, Bluegrass Engineering, PLLC

Response No. 36. Western Mason District is prepared to expend up to \$76,002 if necessary in order to complete the project. If necessary, certain bid items may be reduced and/or eliminated to lessen the potential burden on Western Mason District.

Request No. 37. Refer to Western Mason District's 2022 Annual Report in which it reports a total water loss of 8,223,000, approximately 11.4872 percent. Explain how the proposed project will affect the water loss percentage.

Witness: Paul Reynolds, Bluegrass Engineering, PLLC

Response No. 37. Western Mason District expects that the project will reduce water loss due to the fact that older water mains are prone to breaks and leaks and older water meters may not be registering water usage as efficiently as new meters.

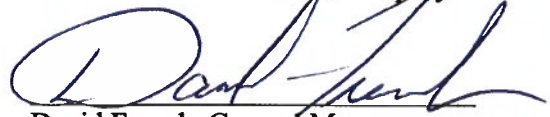
Request No. 38. Refer to the Application, Exhibit A, Public Necessity and Project Description. State who drafted that document.

Witness: Paul Reynolds, Bluegrass Engineering, PLLC

Response No. 38. The document was drafted by Paul Reynolds of Bluegrass Engineering and David French, General Manager of Western Mason District.

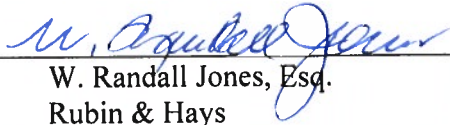
Verification of Response to Commission Staff's First Request for Information

The undersigned, David French, states that he is the General Manager of the Western Mason County Water District and that he has personal knowledge of the matters set forth in the Responses for which he is identified as the witness, and the answers contained in said Responses are true and accurate to the best of his knowledge, information, and belief formed after a reasonable inquiry.

A handwritten signature in blue ink, appearing to read "David French", written over a horizontal line.

David French, General Manager
Western Mason County Water District

Respectfully Submitted,
Rubin & Hays

By 
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CERTIFICATE OF SERVICE

The undersigned, in accordance with 807 KAR 5:001, Section 8, hereby certifies that the Western Mason County Water District's electronic filing of the foregoing Response is a true and accurate copy of the same document being electronically transmitted to the Kentucky Public Service Commission on May 15, 2024; that there are currently no parties that the Kentucky Public Service Commission has excused from participation by electronic means in this proceeding.

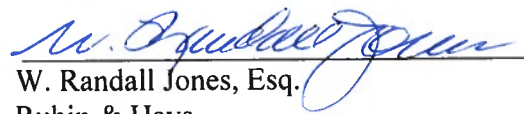

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District
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EXHIBIT 22

Meter Specifications



allegro™

UNIVERSAL AMI RF ENDPOINTS FOR WATER



Industry Leading Innovation

The Allegro Under-the-Glass (UTG™) Universal Endpoint for Advanced Meter Infrastructure (AMI) is an industry-leading innovation in durable endpoint design technology featuring no external connecting wires or antennas. The Allegro UTG Endpoints are built on our patented programmable Interpreter® register platform that enables placement anywhere on most any meter. This exclusive endpoint technology is flexible, migratable, and able to operate in both fixed network and drive-by environments.

Operating in the FCC licensed 450-470 MHz frequency spectrum, our family of Allegro Universal Endpoints communicate to the fixed network backbone via a proprietary 2-way, time-synchronized RF protocol. The Allegro AMI Fixed Network architecture offers exceptional propagation, eliminates network RF signal collision, provides superior stability (agnostic of the number of endpoints), and is intrinsically secure and protected.

The UTG Universal Endpoints transmit at 2 watts of output power and can communicate with the Allegro Base Station from up to 2 miles away, with priority given to the Base Station for greater network efficiency.

The Allegro Wall Endpoint offers an extended range up to 5 miles. Allegro Endpoints are engineered to automatically revert to an AMR drive-by mode in the event of a network disruption, always allowing for data collection.

Allegro incorporates a patented, dual-frequency 'Smart Antenna' within our UTG Endpoints, ideal for submerged pit or vault environments. This proprietary design matches the RF shift as radio waves travel through water, providing consistent reliable performance irrespective to the level of humidity and water conditions within the harsh pit environment.

UTG Encapsulation Technology

Winner of the Frost & Sullivan Market Engineering Award, Master Meter's innovative UTG (Under-the-Glass) Encapsulation Technology is a proprietary manufacturing design, which fully encloses both RF circuitry, battery, antenna, and the solid-state meter register into a hermetically sealed, IP68-rated hardened glass and stainless steel enclosure. With millions of UTG designed AMR and AMI endpoints installed globally, the elimination of external wires and/or connections has proven a formidable, highly durable, and weather resistant product design ideal for submersible, pit-set environments where the protection of sensitive AMR/AMI electronics is paramount.





Allegro Endpoint Family

Each utility environment presents special technical challenges. That's why Master Meter created three unique application specific AMI Endpoints to provide optimal communication between the meter, RF network, and the utility.

UTG ENDPOINT

Our flagship product - the UTG Register Endpoint - is ideal for use in pit or indoor situations that are located within approximately 2 miles of an Allegro Base Station or repeater. This fully integral design features no connections or external antennas allowing a quick plug-in-play solution that keeps deployment schedules short, and implementation costs down.

UTG ENDPOINT WITH EXTERNAL ANTENNA

This UTG Endpoint provides an external low profile antenna, making it a choice solution for deep pits or vaults, or where the Base Station distance may compromise performance. The only wired connection is an IP68-rated push-pull connector that is coupled to our ruggedized low-profile omnidirectional antenna. This boosts the total range of the Endpoint by up to 250%, providing an extended reliable performance.

ALLEGRO WALL ENDPOINT

The Allegro Wall Endpoint provides complete flexibility in AMI communication and is ideal for basement located meters, or commercial meter settings located in dry, deep vaults. This endpoint works with any wired make or model encoder register that uses the industry standard UI-1203 communication protocol. It is ideal for retrofitting and upgrading older systems with today's most advanced AMI technology. The Wall Endpoint is universal, programmable, and provides the same robust two-way communication found with our UTG Endpoints.

Features and Benefits

Leading the way towards interoperability, Master Meter's patented Universal Interpreter technology is at the heart of our endpoints, allowing Allegro to retrofit nearly every brand, size, and type of meter without wires. The Allegro Endpoint is a solid-state integral AMI register that detects the magnetic signature of the meter chamber's coupling magnet, and synthetically replicates the original manufacturer's registration mechanism to create an accurate, universal, elegant smart technology AMI solution.

We designed Allegro to make sure your technology investment will last. Allegro is engineered to reduce lifetime ownership costs by providing a ruggedized extended life-cycle product design and future firmware upgradeability so that Allegro grows with technology. Exclusive environmental design assures longevity in harsh submerged environments.

- IP68 Environmental Rating (in most cases) for utmost protection against damaging moisture and dust ingress.
- Under-the-Glass (UTG) Encapsulated Wireless Design for elegant, simplified installation and no external wires or connections.
- Ultra-compact form factor provides an elegant quality design with a minimal footprint and opportunity for tamper.
- Full 10 Year Battery Warranty with additional 10 Year Prorated Coverage.
- 100% Solid-State design with no moving parts provides exceptional accuracy, granular data resolution, and zero wear



SEAMLESS OPERATION BETWEEN WAMP AND AFD

The Allegro Endpoint easily migrates between drive-by and fixed network modes to ensure reliable meter reading operations regardless of network status. By automating routine tasks and operations, utilities gain efficiencies and can provide an enhanced customer service experience to all customer segments.

- Seamless, smart sensing network architecture provides a flexible, cost-effective network rollout by automatic communication between the endpoint and base station.
- Redundant Operating Modes for enhanced system reliability.
- Smart sensing algorithms automate and improve communications.
- Data redundancy in endpoint, with built-in storage of 72 hourly reads.

FAST RESPONSE TO CUSTOMER INQUIRY

With a need to respond immediately to the shifting priorities of a fast paced water utility, the Allegro AMI Fixed Network incorporates advanced end-to-end true 2-way communication. The system operates on a secure, encrypted, channel and time specific proprietary protocol. The Time Synchronous RF Protocol operates by assigning each endpoint a specific time slot to listen for the base station. Because of this efficient design, IP packet collisions are all but eliminated offering increased reliability and better performance.

- On Demand Reads for accurate, remotely available answers to billing inquiries.
- The Lowest Latency Response Time to empower utility personnel with timely information for their customers.

- Near Real Time Alert Monitoring ensures more responsive customer service.
- Remote Firmware Upgradability protects today's investment and allows the AMI endpoints to grow with future technology.
- End-to-End Encryption for secure, protected data transmission privacy.
- Anytime Network Commands puts the utility in touch with field assets.
- Flexible transmission interval scheduling with either every 12 hours, or once per day (for extended battery performance).
- 15 Minute consumption granularity reading.

QUICK DEPLOYMENT AND INSTALLATION

The UTG Universal Endpoints are Proactive, Preemptive, and Intuitive. We engineer our endpoints with the idea that utilities don't have freely available resources to be spent on lengthy training and complex installation procedures just to move forward with technology migration. Allegro installation is quick and painless, reducing costs while requiring little to no technical expertise.

- Automatic Network Communication for immediate startup and implementation
- Endpoints are available pre-configured at the factory for immediate deployment.
- Ultra-compact form factor provides an elegant quality design with a minimal footprint and opportunity for tamper.
- Barcode labels help reduce human error in the administrative integration of installation data
- Fully integral UTG design requires no installation of antennas or connection to encoder registers* for quick deployment. * applicable to the fully integral UTG register. This does not apply to the Allegro UTG with External Antenna or Allegro Wall Endpoint.



Moving At The Speed of Technology

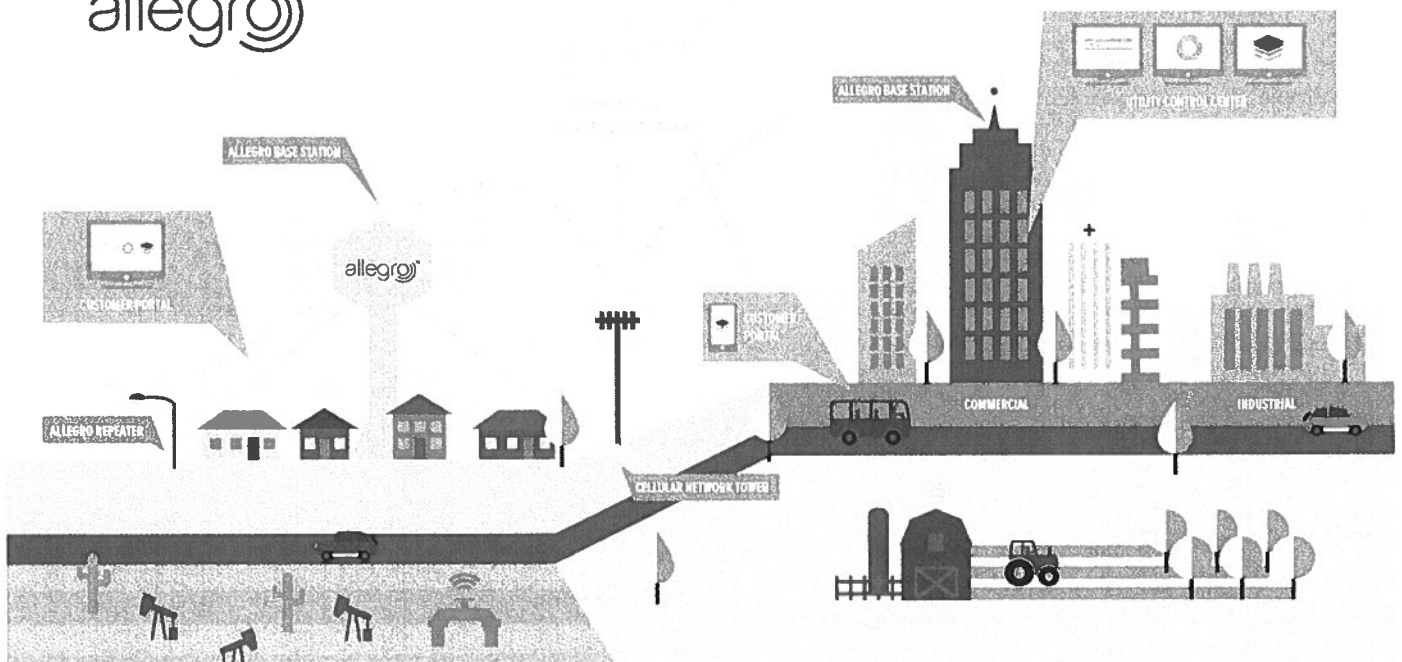
Master Meter is a high-service solutions provider specializing in advanced digital water metering, data delivery, and Utility Intelligence (UI) software. Master Meter's portfolio of new and innovative smart water technologies continues to expand in support of today's dynamic water utility business environment, and the water department's rapidly evolving role within a Smart City strategic plan. Join us.

Architecture

The simplicity found in nature inspired the overarching architectural design for Allegro and Harmony. Maximizing Allegro's RF footprint through efficient use and design of network components, while synchronizing communication between endpoint and collector result in today's most cost-effective and efficient AMI system available.

Harmony MDM software enables utilities to clearly visualize the robust, detailed consumption information delivered through the Allegro network. Together, Allegro and Harmony allow the utility to analyze, manage, and precisely account for system-wide water consumption. Smartly designed smartphone apps and web portals create an interactive customer engagement that improves customer satisfaction, reduces calls to City Hall, and empowers the ratepayer to responsibly and confidently make informed decisions about their personal usage.

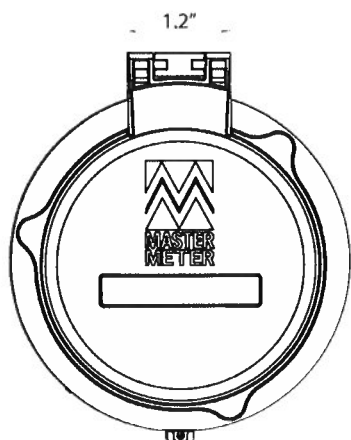
harmony™
allegro™



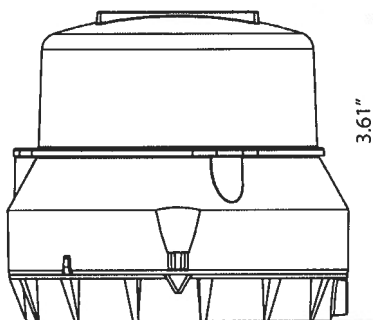


Dimensions

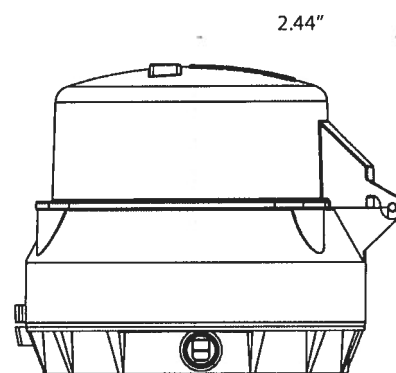
UTG ENDPOINT



Top View

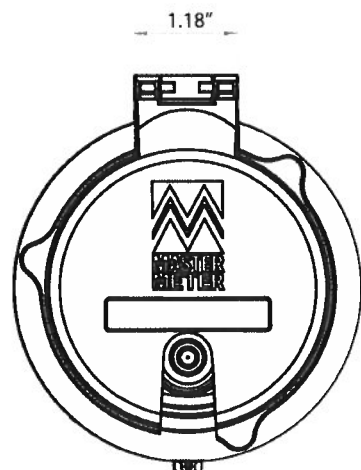


Front View

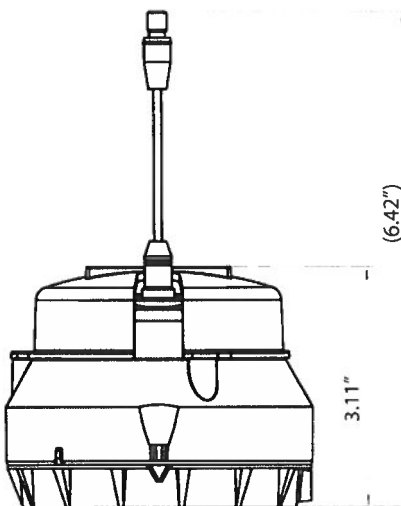


Side View

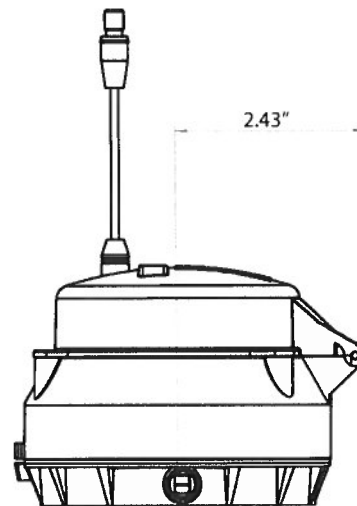
UTG ENDPOINT WITH EXTERNAL ANTENNA



Top View



Front View

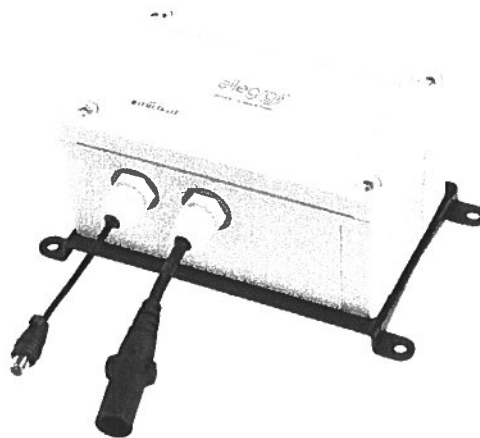


Side View



ALLEGRO PIT MODULE

The Allegro Pit Module provides a solution for meters located in damp, deep vaults/pits and is used to interface with Master Meter's Octave® Commercial & Industrial Ultrasonic Meter, AccuLinx™ and eLinx™ encoder registers, or most any brand water meter with an encoder output using the standard communications protocol for water, UI-1203.



Specifications

Physical Characteristics		
Pit Module w/Bracket Dimensions	Height x Length x Width (in)	3.5" x 6.25" x 2.81"
	Weight (lbs)	1 lb
Environment		
IP Rating	RF Endpoint with Cable (Outdoor Use)	IP68
IP Rating Details	Submerged Depth (Time at 0°, 25°, 40°C)	1 (168 Hours)
	Weather Susceptibility	Rain / Snow / Salt
Temperature	Operating Temperature (Storage)	-4° to 149° (-22° to 176°)
Humidity	Maximum Humidity at Temperature of 65°C	95%
Pit Lid Material	Lid Mount Antenna Ready	—
Radio		
Frequency Band	Licensed Spectrum	450MHz - 470MHz
Rx Sensitivity	Receiver Sensitivity	-119dBm
Tx Output Strength	Fixed Network Mode	32.5dBm
	Drive-By Mode	12dBm
Bandwidth	Channel Bandwidth	5KHz
Antenna Type	External Omni-Directional Antenna	Yes
	Cable Length	12'
Antenna Gain		0dB
Cable Terminations - Data	NICOR Connector	—
	Cable Length	18'
Display (LCD)		
Display (LCD) Details		No Display
Data Logger		
Number of Reads	Read Storage Capacity	5760
Read Granularity	Default	15 Min
Transmissions		
Alerts	Low Battery / Cut Wire	—
Scheduled Transmission	12hr or 24hr Configurable	—



Specifications



Physical Characteristics				
UTG Endpoint Dimensions	Diameter x Height (in)	3.15" x 2.56"	3.15" x 2.56"	-
External Antenna Dimensions	Out of Pit Height (in)	-	0.67"	-
	Out of Pit Radius (in)	-	5.79"	-
	Lid Surface to Antenna Connector (in)	7.36"	7.36"	-
Wall Mount Dimensions	Height x Length x Width (in)	-	-	7.09" x 5.91" x 2.36"
Weight		0.62 lbs.	0.62 lbs.	2.20 lbs.
Antenna Connection		-	Through the Glass, Coaxial	Rear Connection
	Cable Length (ft)	-	1.97'	3.28'
Environment				
IP Rating	RF Endpoint with Cable (Outdoor Use) IP68	IP68	IP68	IP65
IP68 Rated	Submerged Depth (ft)	4.92'	4.92'	-
	Submerged Time at 32°, 77°, 104° F	168 Hours	168 Hours	-
	Weather Susceptibility	Rain / Snow / Salt	Rain / Snow / Salt	-
Temperature	Operating Temperature Range	-4° F to 149° F	-4° F to 149° F	-40° F to 158° F
	Storage Temperature Range	-22° F to 176° F	-22° F to 176° F	-22° F to 176° F
Humidity	Maximum Humidity at Temperature of 149° F	95%	95%	95%
Pit Lid Material	Plastic Only	Yes	Yes	-
Radio				
Frequency Band	Licensed Spectrum	450MHz - 470MHz	450MHz - 470MHz	450MHz - 470MHz
Rx Sensitivity	Receiver Sensitivity	-119dBm	-119dBm	-119dBm
Tx Output Strength	Fixed Network Mode	33dBm	33dBm	33dBm
	Drive By Mode	13dBm	13dBm	13dBm
Bandwidth	Channel Bandwidth	6KHz	6KHz	6KHz
Antenna Type	External Omni-Directional Antenna	-	Yes	-
	Internal Printed Antenna	Yes	-	Yes
Antenna Gain		0dB	0dB	0dB
Losses	Feed Through Cable	2dB	2dB	-
Display (LCD)				
Max Consumption	Max Consumption	999999999	999999999	-
Measurement Units	Gallon / Meter ³ / Feet ³	-	-	-
Reading Resolution	Highest Read	0.1 Gallon	0.1 Gallon	-
Data Logger				
Number of Reads	Read Storage Capacity	5760	5760	5760
Read Granularity	Default	1 Hour	1 Hour	1 Hour
	Configurable To	15 Min	15 Min	15 Min
Alerts				
Tamper	Magnetic Sabotage, Tamper	Yes	Yes	Yes
Battery	Low Battery	Yes	Yes	Yes
Leak	Leak	Yes	Yes	Yes
Encoder	Master Meter Acculinx and E-Linx, Sensus iPearl	-	-	-
	Accustream Digital Encoder, Mueller Translator	None	None	Yes
Scheduled Transmission	12hr or 24hr Configurable	Yes	Yes	Yes
Supported Meter Bodies	Master Meter, Badger, Neptune, Sensus, Hersey	-	-	-
	Elster	Yes	Yes	Yes
Regulations / Certifications	FCC ID: NTA2W4GB1, UL	Yes	Yes	FCC, UL, CE, and
	Industry Canada: 4732A-2W4GB1, 4732A-2WBS1	4732A-2W4GB1	-	Industry Canada



Contact Us:

Master Meter, Inc
101 Regency Parkway
Mansfield, TX 76063

Phone: 800.765.6518
Fax: 817.842.8100
innovate@mastermeter.com

harmony[®]

allegro[™]

EXHIBIT 25

Pump Data Sheets

Pump Performance Datasheet

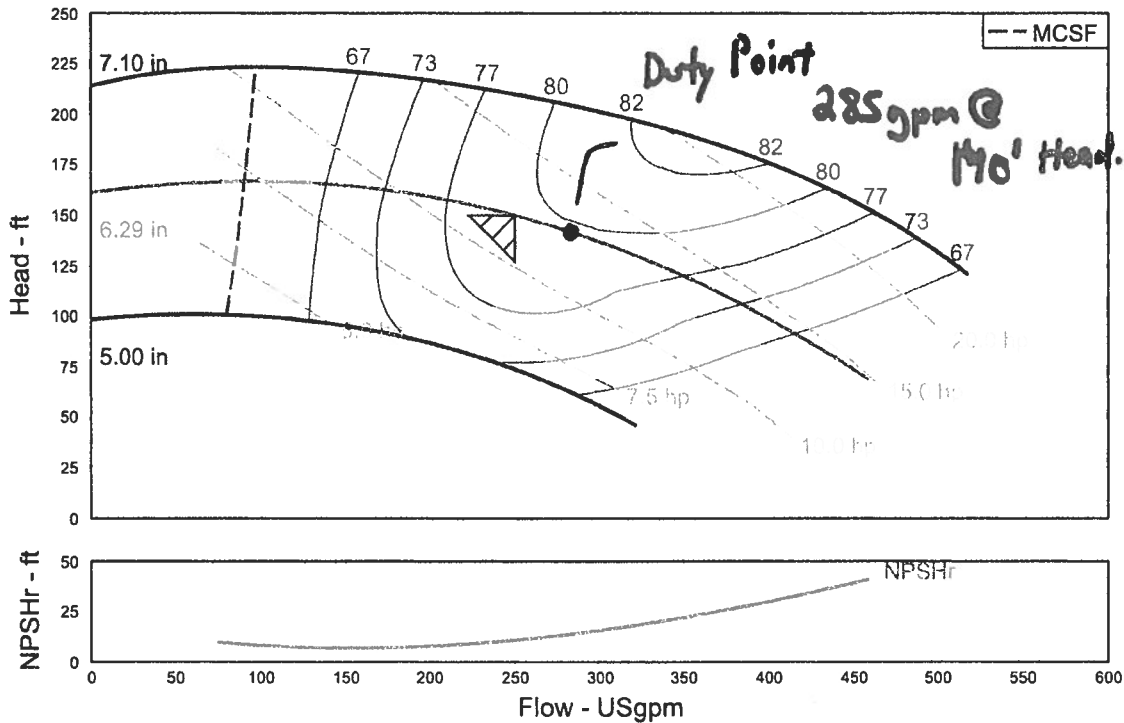
Customer	:		Project	:	563134
Customer ref. / PO	:		Model	:	20709 LC
Tag Number	:	001	Stages	:	1
Service	:		Based on curve number	:	RC9912-1-SS Rev May22
Quantity	:	1	Basic model number	:	-
			Date last saved	:	02/08/2023 8:21 AM

Operating Conditions		Liquid	
Flow, rated	: 250.0 USgpm	Liquid type	: Cold Water
Differential head / pressure, rated (requested)	: 150.0 ft	Additional liquid description	:
Differential head / pressure, rated (actual)	: 150.1 ft	Solids diameter, max	: 0.00 in
Suction pressure, rated / max	: 0.00 / 0.00 psi.g	Solids concentration, by volume	: 0.00 %
NPSH available, rated	: Ample	Temperature, max	: 68.00 deg F
Site Supply Frequency	: 60 Hz	Fluid density, rated / max	: 1.000 / 1.000 SG

Performance		Material	
Speed, rated	: 3530 rpm	Material selected	: Cast iron
Impeller diameter, rated	: 6.29 in		
Impeller diameter, maximum	: 7.10 in		
Impeller diameter, minimum	: 5.00 in		
Efficiency	: 79.21 %		

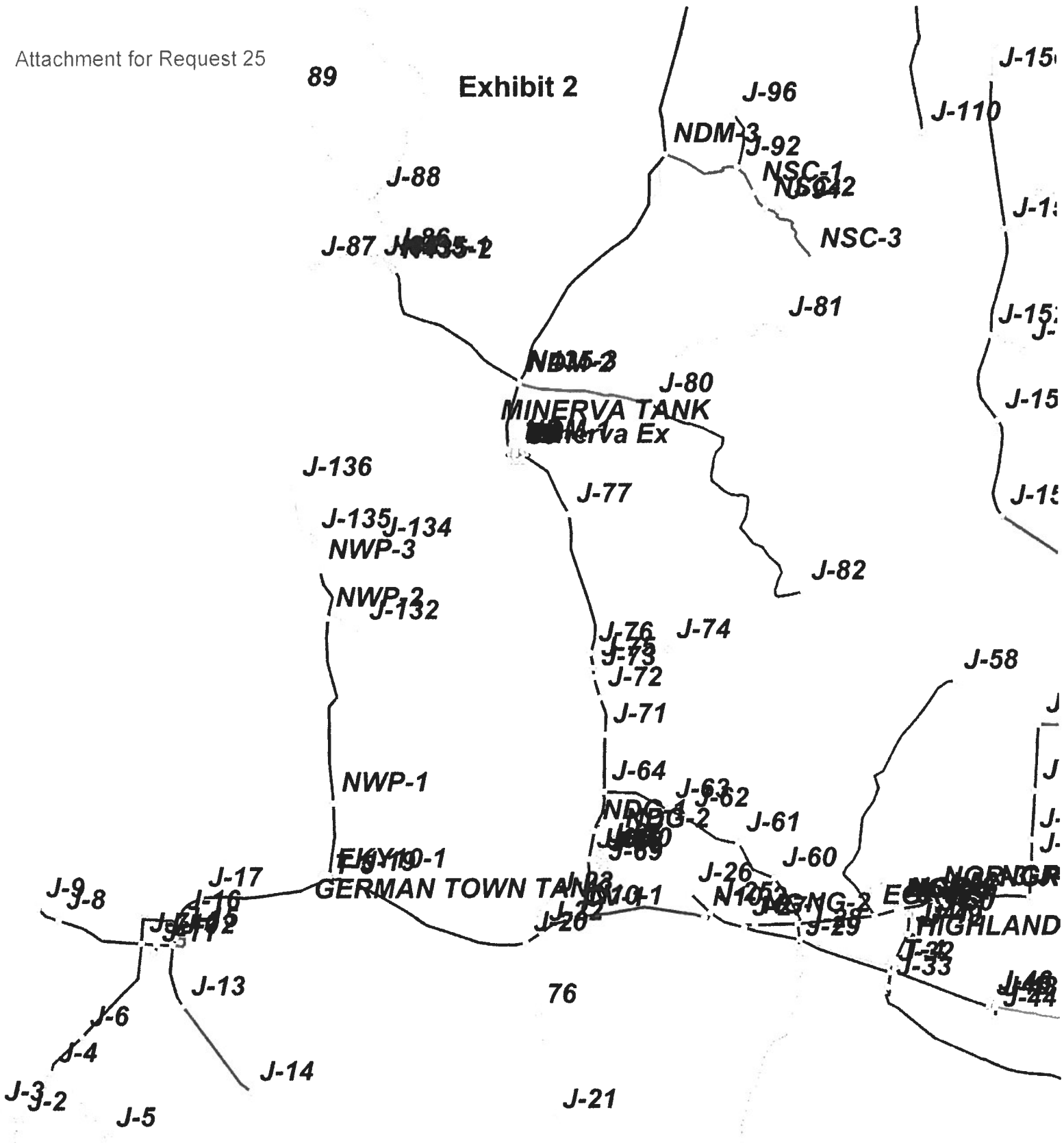
Performance		Pressure Data	
NPSH required / margin required	: 11.19 / 0.00 ft	Maximum working pressure	: 72.21 psi.g
Ns (imp. eye flow) / Nss (imp. eye flow)	: 1,325 / 6,186 US Units	Maximum allowable working pressure	: 175.0 psi.g
MCSF	: 90.44 USgpm	Maximum allowable suction pressure	: 175.0 psi.g
Head, maximum, rated diameter	: 166.9 ft	Hydrostatic test pressure	: 263.0 psi.g
Head rise to shutoff	: 7.51 %		
Flow, best eff. point	: 281.5 USgpm		
Flow ratio, rated / BEP	: 88.81 %		
Diameter ratio (rated / max)	: 88.59 %		
Head ratio (rated dia / max dia)	: 71.42 %		
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00		
Selection status	: Acceptable		

Energy Indexes		Driver & Power Data (@Max density)	
PEI (CL)	: 0.88	Motor sizing specification	: Max power (non-overloading)
ER (CL)	: 12	Margin over specification	: 0.00 %
		Service factor	: 1.00
		Power, hydraulic	: 9.47 hp
		Rated power (based on duty point)	: 11.95 hp
		Max power (non-overloading)	: 14.81 hp
		Nameplate motor rating	: 15.00 hp / 11.19 kW



89

Exhibit 2



Pipe Diameter

□	<= 3
■	<= 4
■	<= 6
■	<= 8
■	<= 10
■	> 10

J-15

J-110

J-96

NDM-3

J-92

NSC-1
NSC-2

NSC-3

J-88

J-87 J-85-2

J-81

MINERVA TANK
Minerva Ex

J-80

NDM-2

J-77

J-136

J-135 J-134
NWP-3

NWP-2
J-132

J-82

J-76 J-74

J-73

J-72

J-71

J-58

NWP-1

J-64

J-63-2

NDM-2

J-61

J-60

EKV-10-1

GERMAN TOWN TANK

J-59

J-26

J-60

NORANGER
HIGHLAND

J-9-8

J-17

J-16

J-12

J-13

76

J-14

J-21

J-3-2

J-5

J-31

J-40
J-44

EXHIBIT 26

Distribution-Major Construction Sheets

Distribution-Major Construction
Western Mason Co Water District
Facility Requirements

Activity ID No.: API:20230001

PORT000000013 (WSI Project) 11,000 linear feet of 6 inch PVC, 5,300 linear feet of 3 inch PVC water line:

Narrative Requirements:

Condition No.	Condition
T-1	Construction of this project shall not result in the water system's inability to supply consistent water service in compliance with 401 KAR 8:010 through 8:600. [401 KAR 8:100 Section 5]
T-2	The public water system shall not implement a change to the approved plans without the prior written approval of the cabinet. [401 KAR 8:100 Section 4(3)]
T-3	A proposed change to the approved plans affecting sanitary features of design shall be submitted to the cabinet for approval in accordance with Section 2 of this administrative regulation. [401 KAR 8:100 Section 4(2)]
T-4	During construction, a set of approved plans and specifications shall be available at the job site. Construction shall be performed in accordance with the approved plans and specifications. [401 KAR 8:100 Section 3(1)]
T-5	Unless construction begins within two (2) years from the date of approval of the final plans and specifications, the approval shall expire. [401 KAR 8:100 Section 3(3)]
T-6	Upon completion of construction, a professional engineer shall certify in writing that the project has been completed in accordance with the approved plans and specifications. [401 KAR 8:100 Section 4(1)]
T-7	The system shall be designed to maintain a minimum pressure of 20 psi at ground level at all points in the distribution system under all conditions of flow. [Recommended Standards for Water Works 8.2.1, Drinking Water General Design Criteria IV.1.a]
T-8	Water lines should be hydraulically capable of a flow velocity of 2.5 ft/s while maintaining a pressure of at least 20 psi. [Drinking Water General Design Criteria IV.1.b]
T-9	The normal working pressure in the distribution system at the service connection shall not be less than 30 psi under peak demand flow conditions. Peak demand is defined as the maximum customer water usage rate, expressed in gallons per minute (gpm), in the pressure zone of interest during a 24 hour (diurnal) time period. [Drinking Water General Design Criteria IV.1.d]
T-10	When static pressure exceeds 150 psi, pressure reducing devices shall be provided on mains or as part of the meter setting on individual service lines in the distribution system. [Drinking Water General Design Criteria IV.1.c]
T-11	The minimum size of water main in the distribution system where fire protection is not to be provided should be a minimum of three (3) inch diameter. Any departure from minimum requirements shall be justified by hydraulic analysis and future water use, and can be considered only in special circumstances. [Recommended Standards for Water Works 8.2.2, Drinking Water General Design Criteria IV.2.b]

Distribution-Major Construction
Western Mason Co Water District
Facility Requirements

Activity ID No.: APE20230001

Page 2 of 8

PORT000000013 (WSI Project) 11,000 linear feet of 6 inch PVC, 5,300 linear feet of 3 inch PVC water line:

Narrative Requirements:

Condition No.	Condition
T-12	Water mains not designed to carry fire-flows shall not have fire hydrants connected to them. [Recommended Standards for Water Works 8.4.1.b]
T-13	Flushing devices should be sized to provide flows which will give a velocity of at least 2.5 feet per second in the water main being flushed. [Recommended Standards for Water Works 8.2.4.b, Recommended Standards for Water Works 8.4.1.b]
T-14	No flushing device shall be directly connected to any sewer. [Recommended Standards for Water Works 8.2.4.b, Recommended Standards for Water Works 8.4.1.b]
T-15	Pipe shall be constructed to a depth providing a minimum cover of 30 inches to top of pipe. [Drinking Water General Design Criteria IV.3.a]
T-16	Water mains shall be covered with sufficient earth or other insulation to prevent freezing. [Recommended Standards for Water Works 8.7]
T-17	A continuous and uniform bedding shall be provided in the trench for all buried pipe. Backfill material shall be tamped in layers around the pipe and to a sufficient height above the pipe to adequately support and protect the pipe. Stones found in the trench shall be removed for a depth of at least six inches below the bottom of the pipe. [Recommended Standards for Water Works 8.7]
T-18	Water line installation shall incorporate the provisions of the AWWA standards and/or manufacturer's recommended installation procedures. [Recommended Standards for Water Works 8.7]
T-19	All materials used for the rehabilitation of water mains shall meet ANSI/NSF standards. [Recommended Standards for Water Works 8.1]
T-20	Packing and jointing materials used in the joints of pipe shall meet the standards of AWWA and the reviewing authority. [Recommended Standards for Water Works 8.1]
T-21	All tees, bends, plugs and hydrants shall be provided with reaction blocking, tie rods or joints designed to prevent movement. [Recommended Standards for Water Works 8.7]
T-22	All materials including pipe, fittings, valves and fire hydrants shall conform to the latest standards issued by the ASTM, AWWA and ANSI/NSF, where such standards exist, and be acceptable to the Division of Water. [Recommended Standards for Water Works 8.1]
T-23	Water mains which have been used previously for conveying potable water may be reused provided they meet the above standards and have been restored practically to their original condition. [Recommended Standards for Water Works 8.1]

Distribution-Major Construction
Western Mason Co Water District
Facility Requirements

Activity ID No.: API:20230001

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PORT000000013 (WSI Project) 11,000 linear feet of 6 inch PVC, 5,300 linear feet of 3 inch PVC water line:

Narrative Requirements:

Condition No.	Condition
T-24	Manufacturer approved transition joints shall be used between dissimilar piping materials. [Recommended Standards for Water Works 8.1]
T-25	The minimum size of water main which provides for fire protection and serving fire hydrants shall be six inch diameter. [Recommended Standards for Water Works 8.2, Drinking Water General Design Criteria IV.2 a]
T-26	Pipes and pipe fittings containing more than 8% lead shall not be used. All products shall comply with ANSI/NSF standards. [Recommended Standards for Water Works 8.1]
T-27	Gaskets containing lead shall not be used. Repairs to lead joint pipe shall be made using alternative methods. [Recommended Standards for Water Works 8.1]
T-28	Pipe materials shall be selected to protect against both internal and external pipe corrosion. [Recommended Standards for Water Works 8.1]
T-29	Dead end mains shall be equipped with a means to provide adequate flushing. [Recommended Standards for Water Works 8.2]
T-30	The hydrant lead shall be a minimum of six inches in diameter. Auxiliary valves shall be installed on all hydrant leads. [Recommended Standards for Water Works 8.4.3]
T-31	A sufficient number of valves shall be provided on water mains to minimize inconvenience and sanitary hazards during repairs. [Recommended Standards for Water Works 8.3]
T-32	Wherever possible, chambers, pits or manholes containing valves, blow-offs, meters, or other such appurtenances to a distribution system, shall not be located in areas subject to flooding or in areas of high groundwater. Such chambers or pits should drain to the ground surface, or to absorption pits underground. The chambers, pits and manholes shall not connect directly to any storm drain or sanitary sewer. Blow-offs shall not connect directly to any storm drain or sanitary sewer. [Recommended Standards for Water Works 8.6]
T-33	At high points in water mains where air can accumulate provisions shall be made to remove the air by means of air relief valves. [Recommended Standards for Water Works 8.5.1]
T-34	Automatic air relief valves shall not be used in situations where flooding of the manhole or chamber may occur. [Recommended Standards for Water Works 8.5.1]
T-35	The open end of an air relief pipe from automatic valves shall be extended to at least one foot above grade and provided with a screened, downward facing elbow. [Recommended Standards for Water Works 8.5.2.c]

Distribution-Major Construction

Western Mason Co Water District
Facility Requirements

Activity ID No.: APE20230001

Page 4 of 8

PORT000000013 (WSI Project) 11,000 linear feet of 6 inch PVC, 5,300 linear feet of 3 inch PVC water line:

Narrative Requirements:

Condition No.	Condition
T-36	Discharge piping from air relief valves shall not connect directly to any storm drain, storm sewer, or sanitary sewer. [Recommended Standards for Water Works 8.5.2.d]
T-37	Water pipe shall be constructed with a lateral separation of 10 feet or more from any gravity sanitary or combined sewer measured edge to edge where practical. If not practical a variance may be requested to allow the water pipe to be installed closer to the gravity sanitary or combined sewer provided the water pipe is laid in a separate trench or undisturbed shelf located on one side of the sewer with the bottom of the pipe at least 18 inches above the top of the gravity sanitary or combined sewer pipe. [Drinking Water General Design Criteria IV.3.b]
T-38	Water lines crossing sanitary, combined or storm sewers shall be laid to provide a minimum vertical distance of 18 inches between the outside of the water main and the outside of the sanitary, combined or storm sewer with preference to the water main located above the sanitary, combined or storm sewer. [Drinking Water General Design Criteria IV.3.c]
T-39	At crossings, one full length of water pipe shall be located so both joints will be as far from the sewer as possible. [Recommended Standards for Water Works 8.8.3.b]
T-40	There shall be no connection between the distribution system and any pipes, pumps, hydrants, or tanks whereby unsafe water or other contaminating materials may be discharged or drawn into the system. [Recommended Standards for Water Works 8.10.1]
T-41	Water utilities shall have a cross connection program conforming to 401 KAR 8. [Recommended Standards for Water Works 8.10.1]
T-42	Installed pipe shall be pressure tested and leakage tested in accordance with the appropriate AWWA Standards. [Recommended Standards for Water Works 8.7.6]
T-43	New, cleaned and repaired water mains shall be disinfected in accordance with AWWA Standard C651. The specifications shall include detailed procedures for the adequate flushing, disinfection, and microbiological testing of all water mains. In an emergency or unusual situation, the disinfection procedure shall be discussed with the Division of Water. [Recommended Standards for Water Works 8.7.7]
T-44	A minimum cover of five feet shall be provided over pipe crossing underwater. [Recommended Standards for Water Works 8.9.2]
T-45	Valves shall be provided at both ends of water crossings so that the section can be isolated for testing or repair; the valves shall be easily accessible, and not subject to flooding for pipes crossing underwater. [Recommended Standards for Water Works 8.9.2.b]
T-46	Permanent taps or other provisions to allow insertion of a small meter to determine leakage and obtain water samples on each side of the valve closest to the supply source for pipes crossing. [Recommended Standards for Water Works 8.9.2.c]

Distribution-Major Construction

Western Mason Co Water District
Facility Requirements

Activity ID No.: API:20230001

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PORT000000014 (WSI Project) VFD booster pump station with pumps capable of 285 gpm at 140 ft TDH each:

Narrative Requirements:

Condition No.	Condition
T-1	Construction of this project shall not result in the water system's inability to supply consistent water service in compliance with 401 KAR 8:010 through 8:600. [401 KAR 8:100 Section 5]
T-2	The public water system shall not implement a change to the approved plans without the prior written approval of the cabinet. [401 KAR 8:100 Section 4(3)]
T-3	A proposed change to the approved plans affecting sanitary features of design shall be submitted to the cabinet for approval in accordance with Section 2 of this administrative regulation. [401 KAR 8:100 Section 4(2)]
T-4	During construction, a set of approved plans and specifications shall be available at the job site. Construction shall be performed in accordance with the approved plans and specifications. [401 KAR 8:100 Section 3(1)]
T-5	Unless construction begins within two (2) years from the date of approval of the final plans and specifications, the approval shall expire. [401 KAR 8:100 Section 3(3)]
T-6	Upon completion of construction, a professional engineer shall certify in writing that the project has been completed in accordance with the approved plans and specifications. [401 KAR 8:100 Section 4(1)]
T-7	The system shall be designed to maintain a minimum pressure of 20 psi at ground level at all points in the distribution system under all conditions of flow. [Recommended Standards for Water Works 8.2.1, Drinking Water General Design Criteria IV.1.a]
T-8	Pumping facilities shall be elevated to a minimum of three feet above the 100-year flood elevation, or three feet above the highest recorded flood elevation, whichever is higher, or protected to such elevations, [Recommended Standards for Water Works 6.1.1.a]
T-9	Pumping facilities shall be readily accessible at all times. [Recommended Standards for Water Works 6.1.1.b]
T-10	Pumping facilities shall be graded around the station so as to lead surface drainage away from the station. [Recommended Standards for Water Works 6.1.1.c]
T-11	Pumping facilities shall be protected to prevent vandalism and entrance by animals or unauthorized persons. [Recommended Standards for Water Works 6.1.1.d]
T-12	Raw and finished pump stations shall have adequate space for the installation of additional units if needed, and for the safe servicing of all equipment. [Recommended Standards for Water Works 6.2.a]
T-13	Raw and finished pump stations shall have floors that slope to a suitable drain. [Recommended Standards for Water Works 6.2.c]

Distribution-Major Construction
Western Mason Co Water District
Facility Requirements

Activity ID No.:API:20230001

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PORT000000014 (WSI Project) VFD booster pump station with pumps capable of 285 gpm at 140 ft TDH each:

Narrative Requirements:

Condition No.	Condition
T-14	Raw and finished pump stations shall provide a suitable outlet for drainage from pump glands without discharging onto the floor. [Recommended Standards for Water Works 6.2 f]
T-15	At least two pumping units shall be provided. With any pump out of service, the remaining pump or pumps shall be capable of providing the maximum pumping demand of the system. [Recommended Standards for Water Works 6.3]
T-16	Pumps shall have ample capacity to supply the peak demand against the required distribution system pressure without dangerous overloading. [Recommended Standards for Water Works 6.3 a]
T-17	Pumps shall be driven by prime movers able to meet the maximum horsepower condition of the pumps. [Recommended Standards for Water Works 6.3 b]
T-18	Pumps shall be provided with readily available spare parts and tools. [Recommended Standards for Water Works 6.3 c]
T-19	Pump stations shall have indicating, totalizing, and recording metering of the total water pumped. [Recommended Standards for Water Works 6.6.3]
T-20	Each pump shall have a standard pressure gauge on its discharge line. [Recommended Standards for Water Works 6.6.3 a]
T-21	Each pump shall have a compound gauge on its suction line. [Recommended Standards for Water Works 6.6.3 b]
T-22	Where two or more pumps are installed, provision shall be made for alternation. [Recommended Standards for Water Works 6.6.5]
T-23	Provisions shall be made to prevent energizing the pump motor in the event of a backspin cycle. [Recommended Standards for Water Works 6.6.5]
T-24	Electrical controls shall be located above grade. [Recommended Standards for Water Works 6.6.5]
T-25	Equipment shall be provided or other arrangements made to prevent surge pressures from activating controls which switch on pumps or activate other equipment outside the normal design cycle of operation. [Recommended Standards for Water Works 6.6.5]
T-26	Pump stations shall have a power supply provided from at least two independent sources or a standby or an auxiliary source. [Recommended Standards for Water Works 6.6.6]

Distribution-Major Construction

Western Mason Co Water District
Facility Requirements

Activity ID No.:API20230001

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PORT000000014 (WSI Project) VFD booster pump station with pumps capable of 285 gpm at 140 ft TDH each:

Narrative Requirements:

Condition No.	Condition
T-27	If standby power is provided by onsite generators or engines, the fuel storage and fuel line must be designed to protect the water supply from contamination. [Recommended Standards for Water Works 6.6.6]
T-28	All lubricants which come into contact with the potable water shall be certified for conformance to ANSI/NSF Standard 60. [Recommended Standards for Water Works 6.6.8]
T-29	Booster pumps stations shall have a bypass available. [Recommended Standards for Water Works 6.4.c]
T-30	Each booster pumping station shall contain not less than two pumps with capacities such that peak demand can be satisfied with the largest pump out of service. [Recommended Standards for Water Works 6.4.1]
T-31	All booster pumping stations shall be fitted with a flow rate indicating and totalizer meter. [Recommended Standards for Water Works 6.4.2]
T-32	Inline booster pumps shall be accessible for servicing and repairs. [Recommended Standards for Water Works 6.4.3]
T-33	Each pump must have an isolation valve on the intake and discharge side of the pump to permit satisfactory operation, maintenance and repair of the equipment. [Recommended Standards for Water Works 6.6.1]
T-34	Each pump shall have a positive-acting check valve on the discharge side between the pump and the shut-off valve. [Recommended Standards for Water Works 6.6.1]
T-35	Pump station piping shall be designed so that the friction losses will be minimized, not be subject to contamination, have watertight joints, be protected against surge or water hammer with suitable restraints when necessary, and be such that each pump has an individual suction line or the lines shall be manifolded that they will insure similar hydraulic and operating conditions. [Recommended Standards for Water Works 6.6.2]
T-36	Booster pumps taking suction from storage tanks shall be provided adequate net positive suction head. [Recommended Standards for Water Works 6.4.b]
T-37	Booster pumps shall controlled so that automatic shutoff or low pressure controllers maintain at least 20 psi in the suction line under all operating conditions. [Recommended Standards for Water Works 6.4.c]
T-38	Booster pumps taking suction from ground storage tanks shall be equipped with automatic shutoffs or low pressure controllers. [Recommended Standards for Water Works 6.4.c]

Distribution-Major Construction

Western Mason Co Water District
Facility Requirements

Activity ID No. APE20230001

PORT000000014 (WSI Project) VFD booster pump station with pumps capable of 285 gpm at 140 ft TDH each:

Narrative Requirements:

Condition No.	Condition
T-39	All automatic pump stations should be provided with automatic signaling apparatus which will report when the station is out of service. [Recommended Standards for Water Works 6.5]
T-40	All remote controlled stations shall be electrically operated and controlled and shall have signaling apparatus of proven performance. [Recommended Standards for Water Works 6.5]
T-41	Raw and finished pump stations shall have a floor elevation of at least six inches above finished grade. [Recommended Standards for Water Works 6.2 c]

EXHIBIT 31

Affidavit of Publication and Tearsheet

AFFIDAVIT OF PUBLICATION

State of Kentucky

County of Mason

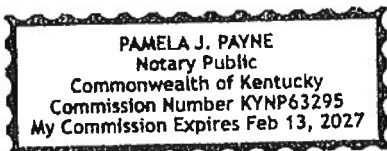
Jennifer Donahue being duly sworn deposes and says that she is Publisher of The Ledger Independent, a newspaper published in Maysville, KY and that advertising for, Western Mason Water District, was published in the said newspaper and that the following is a true description of each advertisement as to date of publication and amount of space occupied:

DATE	SPACE	CAPTION
3/30/2024	28.50	Bids-Water Main Replace-Water

Signed Jennifer Donahue

Subscribed and sworn to before me this 9th day of April 2024

Pamela J. Payne
Notary Public



More nine weeks honor roll

Submitted by Kristen Clarke

A Honor Roll:

Baylee Berry, Mya Blufford, Anna Crim, Kathleen Davenport, Renee Duan, Karsyn Dotson, Jaxton Estepe, Korigan Fryman, Zoey Garvin, Miracle Gray, Asher Gregory, Malorie Grusser, Nyla Hamilton, Josie Hopper, Hden Huron, Samuel Ledford, Marshall Lewis, Makenna Malone, Ally May, Eiana McDowell, Clark McGrath, Kaden Mellenkamp, Kathann Patel, Mathias Poe, Case Robinson, Kamber Ross, Kara Schuler, Bijou Swan, Hadley Thornton, Xander Underwood, Isabella Wade, Fiona Watt, Michaela Wells, Kenzie Wheeler.

A/B Honor Roll:

Aaliyah Berry, Allie Book, Kinsleigh Breuze, Laura Brown, Lynnleigh Burdette, Jace Burrows, Isabella Cline, James Conley, Mattox Davenport, Truett Doyle, Logan Durham, Campbell, Ryan Evans, Tamya Evans, Tre Fetters, Kylan Fletcher, Quinn Forsythe, Patrick Fryman, Cullen Gallagher, Lena Godby, Timothy Hamilton, William Hardin, Khloe Henderson, Bryndlee Jackson, Aiden Kimbler, Elijah Lewis, Brooklyn Major, Ashlyn Manning, Cade Marshall, Valerie Marshall, London Pearson, Blessing Purcell, Ajana Reese, Hannah Reynolds, Chloe Rosenberg, Cassidy Ruark, Kinley Rushmeyer, Camdyn Simmons, Jacob Slater, Addison Smith, Alexander Smith, Parker Tveggarden, Addison Thornton, Christopher Thurman, Raylee Toneray, Kinleigh Towner, Dakota Warman, Landyn White.

Madakhi Avat, Gavin Baxter, Sophia Bisotti, Kinsley Black, Vivian Blankenship, Lathey Brooks Webb, Sydney Burkhardt, Noah Burn, Hadleigh Childers, Elizabeth Collins, Sean Connolly, Mackenzie Eakes, Corbin Elliott, Isabella Fagan, Mattie Fite, Nicholas Frye, Kelly Fryman, Carter Fulton, Bryce Gardner, Cruz Gil Campbell, Kaionii Gordon, Aniston Graydon, Gabrielle Grutza, Hannah

Henderson, Nevah Hessler, Qwantazz Holloway, Christopher Hurst, Addison Jolly, Cole Jones, Gera Jones, Connor Keeton, Mara Kern, Samud Kiskadden, Zane Allen Lawrence, Jevin Lippert, Gabriel Lykins, Faith Manning, Natalie May, Jackson Merrill, Adam Miller, Natalie Mitchell, Sophia Moon, Haley Myers, Carrington Phillips, Allen Prather, Zayne Purdon, Camryn Rich, Mitchell Robinson, Scarlet Sergeant Fox, Ashton Smith, Ava Stages, Jamison Stamm, Ethan Stout, Kynslee Thomas, Clinton VanHoose, Nolan Winter, Koen Anderson, Brooklyn Baxter, Isabella Branham, Aiden Bricker, Kayleena Bush, Zachary Calvert, Isaiah Carroll, Todd Chisley, Cameron Clark, Manguarite Conley, Samaya Corde, Ayslee Crabtree, Jerricka Davis, Logan Dawson, Brianna Deahn, Connor Earles, Abigail Fleming, Victoria Flowers, Landon Frederick, Chanium Frodge, Juan Gonzalez, Zoey Hamilton, Roger Hargett, Brady Hazlett, Zoey Hernandez, Layla Hill, Olivia Jackson, Preston Jackson, Kijah Jenkins, Logan Lawrence, RKeylin Lavee, Landon Lewis, Arianna Maina, Shianne Matern, Keagan McDaniel, Chase McRoberts, Alisa Overy, Brayden Parker, Kylan Pearson, Talon Peters, Brody Pfeiffer, Alyssa Phyllitt, Madison Purdon, Jordan Rich, Carter Roark, Yamila Rodriguez, Nicole Ross, Caden, Robert Roy, Cadence Salazar, Talynn Sapp, Kaegan Spence, Bryson Staggs, William Stanfield, Benjamin Sweet, Brayden Taylor, Jaydon Thoroughman, Brockton Tuol, Kellan Williamson.

Looking for a career change?
We're **HIRING**
FULL-TIME MULTI-MEDIA SALES CONSULTANT!

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The Ledger Independent is seeking a full-time Multi-Media Sales Consultant who is highly motivated, energetic, goal oriented, and ready to achieve success! This position sells our full range of products including digital, print and special projects to an existing account list, plus develops new business from new and existing clients.

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Email: aandwconstruction@hotmail.com

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LEGALS

SECTION 051113
ADVERTISEMENT

Sealed bids for the **Western Mason Water District System Improvements Project, Contract 1 - Water Main Replacement and Booster Pump Station and Contract 2 - Water Meter Replacement** for the Western Mason Water District, will be received at the District office located at 2573 Maryling's Highway, Dover, Kentucky 40324 until 11:00 a.m. local time, **April 10, 2024** and are to be publicly opened and read at 2:00 p.m.

The program of work for Contract No. 1, which bids are to be submitted consists of the installation of approximately 26,000 feet of 36" and 24" water main and appurtenances and replacement of one booster pump station. Contract No. 2, which bids are to be submitted consists of the installation and replacement of approximately 815 meters with new radio read meter system, and other appurtenances.

The works located in Mason and Barken County, Kentucky. Drawings, Specifications and Contract Documents may be examined at:

Bluegrass Engineering, LLC, 222 East Main Street, Suite 1, Georgetown, Kentucky 40324
Phone: 606-351-1714

Western Mason Water District, 2573 Maryling's Highway, Dover, Kentucky 40324
Phone: 606-552-3141

Copies of the Drawings, if any, and the Specifications and Contract Documents may be obtained from Bluegrass Engineering, P.L.C., 222 East Main Street, Suite 1, Georgetown, Kentucky 40324. Phone: 606-351-1714, upon receipt of a non-refundable amount of \$200.00 for each Contract complete set of documents for a hard copy. **All qualified bidders must purchase a set of plans and specifications and must be listed as a plan holder by the plan distributor, Bluegrass Engineering, P.L.C.**

All bids must be made on the required Bid Form and must be fully completed and executed with original signatures and corporate seal.

The contract is being funded by the Kentucky Rural Water Finance Corporation.

State Employees' Work Status (DOWNS) apply for this contract.

Heating, piping and individual may call 1-800-247-2810 for information.

No Bidder may withdraw his Bid within ninety (90) days after the actual date of Bid opening.

Bidders on this work will be required to comply with Title VII of the Civil Rights Act of 1964, the Anti-Harassment Act, and the Contract Work Hours Standard Act. Bidders must comply with the President's Executive Order No. 11246 and No. 11258 and any amendments or supplements to those Executive Orders.

Attention of bidders is particularly called to the requirements as to conditions of employment to be observed under the contract, Section 3, Segregated Facilities, Section 10 and E.O. 11246.

Bidders must certify they do not and will not maintain or provide for their employees any facilities that are segregated or based on race, color, creed, or national origin.

All inquiries and small business requests are encouraged to submit in writing to this project.

The Western Mason Water District reserves the right to waive any bid information and to reject any or all bids for a reason deemed advisable by the District. The right is reserved by the District, in the absence of this sole proprietor to reject any or all bids, and to award the contract to the bidder in its sole discretion, in whole or in part, if any information, irregularities, mistakes, errors or omissions in any Bid received and to accept any Bid deemed to be responsive to this invitation and favorable to the interests of the Owner.

The Contract will be awarded on the basis of the low evaluated responsible, responsible, best and qualified bidder unless if Bids are rejected.

The sealed bids for this project may be clearly marked on the outside of the envelope "Sealed Bids for Western Mason Water District System Improvements Project, Contract No. 1 and/or Contract No. 2 for the Western Mason Water District, 2573 Maryling's Highway, Dover, Kentucky 40324." Bids are to be mailed, they should be mailed to Western Mason Water District, P.O. Box 49, Dover, Kentucky 40324. Phone: 606-552-3141. A certified check or Bid Bond payable to the Western Mason Water District in the amount of the Bid price of the Bid is to accompany the Bid.

WESTERN MASON WATER DISTRICT
Larry Redden, Chairman
Advertisement Date: **March 10, 2024**



EXHIBIT 33

Engineers Letter of Recommendation



April 15, 2024

Western Mason Water District
2573 Mary Ingels Highway
Dover, KY 41034

RE: Recommendation of Award
System Improvements Project

Dear Board of Directors;

Bids for the above referenced project were opened Wednesday, April 10, 2024 at 11:00 am (local time). The low bidder was B.P. Pipeline, LLC, Quincy, Kentucky with a bid of \$1,545,850.00 on Contract 1 and Ferguson Waterworks with a bid of \$522,729.25 on Contract 2.

Upon review of the bid documents, checking references and previous experiences with the low bidders, Bluegrass Engineering, PLLC would recommend to Western Mason Water District that B.P. Pipeline, LLC be awarded Contract 1 and Ferguson Waterworks be awarded Contract 2 for the System Improvements Project.

A copy of the certified bid tabulation is attached to this letter.

If you have any questions or need additional information please contact me at your earliest convenience.

Sincerely,

BLUEGRASS ENGINEERING, PLLC

A handwritten signature in black ink, appearing to read 'Paul Reynolds', is written over a horizontal line.

Paul Reynolds
Project Manager

c: File w/enclosures