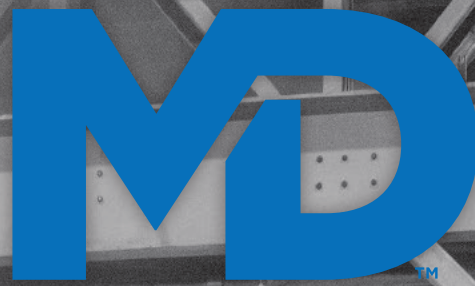


A QUARTERLY MAGAZINE FROM MCWANE DUCTILE

IRON STRONG INSIGHTS[®]

SUMMER 2024



McWANE DUCTILE

BUILDING IRON STRONG UTILITIES FOR GENERATIONS[®]

What Is VPP Star Status and Why Does It Matter?

PG. 4

ALSO IN THIS ISSUE

- > The Adaptability of Ductile Iron Pipe
- > Project Profiles



**McWANE
DUCTILE**

Contact Us: McWaneDuctile.com

Mike Dodge, VP Sales & Marketing
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Andrea Kubik, Marketing Manager

Inside

- 7 \$50M Capital Investment Project Completed
- 8 The Adaptability of Ductile Iron Pipe
- 10 Ditch Doctor
- 11 Project Profiles

IRON STRONG INSIGHTS®

McWane Ductile has been an industry leader in the manufacture of water distribution and infrastructure products since 1921. With three U.S. foundries, McWane Ductile offers superior service while supplying Ductile iron pipe across North America and beyond, all while maintaining an unwavering commitment to safety and quality. Through continued innovation, it is our goal to meet the customer needs and industry demands of the future in order to Build Iron Strong Utilities for Generations.



PG. 4 **What Is VPP Star Status
and Why Does It Matter?**

CONNECT WITH US ON



Welcome to Iron Strong Insights®

Dear Readers,

As the warm days of summer unfold, we are pleased to share our latest updates, project profiles and insights with our valued community of waterworks professionals. After six months of running steadily with an emphasis on bringing our new \$50M casting and annealing facility online, this season marks a pivotal time for us at our Ductile iron pipe and poles manufacturing foundries. We have restarted operations following a brief yet essential two-week shutdown. This period allowed us to maintain and upgrade our facilities, ensuring that we continue to deliver the high-quality products you rely on.

Hurricane and flood season has arrived much earlier than anticipated this year, with an unprecedented early appearance of a Category 5 hurricane that ripped through the Caribbean and twisted through the Gulf to hit Mexico and Texas. Such extreme weather events underscore the importance of robust infrastructure. At McWane

Ductile, we take pride in our Ductile iron products, which are renowned for their exceptional strength and durability during such catastrophic events. Our commitment to producing American-made resilient pipe and poles ensures communities can more effectively withstand and recover quickly from these natural disasters. Our thoughts are with those communities who have suffered so much damage, and we hope you rebound safely and swiftly.

Looking ahead, we are excited to participate in the upcoming Rural Water Association Conference (WaterPro) and the National Association of Water Companies Water Summit, both being held the week of Sept. 9. These events provide a vital platform for industry leaders to share knowledge, innovations and best practices. Our Sales personnel and Regional Engineers will attend and be ready to discuss crucial topics, such as the resiliency, efficiency and adaptability of Ductile iron pipe. We believe

these discussions are more important than ever as we navigate the challenges posed by weather and world events and their impact on water infrastructure.

Our dedication to innovation and excellence drives us to continually enhance our products and educational offerings, such as Lunch & Learns, Days of Water, and our popular Iron Strong blogs and videos. We are committed to supporting your efforts in building and maintaining resilient water systems that protect and serve communities nationwide.

Thank you for your continued trust and partnership. We look forward to seeing many of you at the upcoming conferences and to another successful season working together.



Stuart Liddell

Sales Operations Manager
Sales Operations Department

WHAT IS VPP STAR STATUS AND WHY DOES IT MATTER?

BY BILL KLECZKA, MCWANE DUCTILE SALES REPRESENTATIVE

“Do it safely or not at all.” That is the McWane Way. At McWane Ductile, we prioritize a safe work environment for our employees and strive to comply with Occupational Safety and Health Administration (OSHA) standards. We are committed to promoting service excellence, product quality and integrity, while continuously working to improve and build a strong safety culture in our facilities. Our sponsorship of OSHA’s Voluntary Protection Programs (VPP) demonstrates our commitment to outstanding occupational health and safety standards.

WHAT IS VPP?

VPP was established in 1979 to recognize organizations for outstanding health and safety performance. It’s a partnership with OSHA involving collaboration among labor, management and the government to create a safe workplace culture. VPP sites have a DART rate 52% lower than the national average. The program is assessed using five key components:

1. Management Commitment
2. Employee Involvement
3. Worksite Analysis
4. Hazard Prevention and Control
5. Health and Safety Training

The idea of the program is to point out potential problems and fix them before they become an issue. Providing the necessary resources and teaching hazard prevention techniques are vital to keeping those working in potentially dangerous situations safe.

“I would encourage all companies to get involved. Whether they go through the actual process of becoming a VPP Star site or not, just evaluating their safety and health management program and really looking at how safety is run at their site will help them improve greatly,” said Melissa Linton, Region Five VPP Manager at OSHA.

The VPP Demonstration level is the beginning of the program, allowing OSHA to test safety practices at a facility. The Merit level recognizes employers and employees who have good safety and health management systems but need some improvement to achieve Star status. Merit is the crucial and effective stepping stone to attaining Star status within three years when the site demonstrates the potential and commitment to meet its tailored site goals. One caveat to a site holding a Merit status is that they are limited to one three-year term to commit to achieving Star status unless special circumstances allow for a second term. On-site Merit evaluations happen every 18–24 months, and compliance is necessary for these status upgrades.

WHAT ARE THE VARYING LEVELS OF VPP?

In practice, there are three different levels in VPP:

1. Demonstration
2. Merit
3. Star

Star is the highest level, reserved for exemplary worksites with successful safety and health management systems and low injury and illness rates. Star worksites are self-sufficient in their ability to control workplace hazards. They are reevaluated every three to five years to keep their Star





certification, but reviews of incident rates are performed annually. McWane Ductile is Star-compliant across all three New Jersey (MDNJ), Ohio (MDO) and Utah (MDU) foundries.

“Our last audit involved about five to six OSHA representatives and compliance officers. They came to the facility and looked for imminent hazards and housekeeping. They interviewed us to make sure we were doing what we say we do,” said MDU Union Safety Coordinator Joe Medina.

WHAT IS THE HISTORY OF VPP AT MCWANE DUCTILE?

In 2009, the Union at the McWane Ductile Ohio facility visited a VPP site and convinced the company to implement the program. By 2010, our Ohio foundry became the first to receive VPP Star status, followed by our Utah foundry in 2012 and our New Jersey plant. Each foundry now has a VPP coordinator who works to maintain our Star status through collaboration with safety and plant managers. Management has invested millions to maintain safe engineering practices while promoting a culture of safety.

WHY DOES VPP MATTER?

We are incredibly proud to have earned VPP Star status across all our plants.

According to the OSHA.gov website, out of over 8 million worksites in the United States, only approximately 2,000 have achieved VPP Star status. The safety culture created allows all employees to have a voice in their safety, making it an employee-driven program that incorporates everyone from the bottom up. Ideas are implemented at each facility to provide employees with an additional line of communication with management about safety issues.

“Our ability to have a safe workplace takes everyone’s effort and commitment,” said Vice President and General Manager of MDO Tom Crawford. “Management must be committed to providing resources to fix hazards and continuously improve. Our employees are engaged in sharing safety concerns and working safely.”

In our Ohio facility, we have Star teams composed of members from different departments who use green hazard tags to identify and report potential safety issues or improvements in processes. When a hazard is identified, workers place a bright green tag on the area or item, fill out the top half of the tag, and give the bottom half to their supervisor for corrective action.

“Our employees are our subject matter experts. Getting the people who know what’s going on to pitch in, provide their ideas and be heard helped a lot with our overall communication in the plant,” said Jim Wright, MDO Melting Supervisor.

In the McWane Ductile Utah facility, the safety department conducts weekly walkthroughs of the foundry, allowing employees to voice concerns. MDU also organizes events, such as Joint Safety Committee meetings and Continuous Improvement activities, to enhance safety across the plant.

“We make time for daily startup meetings to regularly discuss relevant safety topics while interacting with the employees regarding unsafe issues and good safety habits. We continue to make time to perform these necessary housekeeping and preventative maintenance tasks to help mitigate potential environmental risks,” said McWane Ductile Utah VPP Coordinator Michael Pacanos.



“Knowing that a site is VPP certified provides me confidence that the company cares,” said Pacanos. “We are exposed to many hazards here, and what we do can be very dangerous, so I thank McWane Ductile for striving for this accolade!”

At McWane Ductile, VPP has significantly reduced injuries and incidents, making us a top choice for customers and contractors who value worker safety. Operating in a safe and certified environment is our goal, and we are grateful for the opportunity to uphold these practices.

“McWane Ductile takes safety with the utmost seriousness. That’s why it’s one of our McWane Way compass points. Safety. Right? So, we want to ensure that we keep our employees safe from harm and that they go home the same way they came to work,” said Eladio Quinones, MDNJ Safety Manager.

Adaptability at its best.

Tailored solutions for every project.



**McWANE
DUCTILE**

IRON STRONG

With the flexibility to meet the needs of communities around the world, Ductile iron pipe from McWane Ductile offers a spectrum of solutions for diverse water infrastructure needs. From urban networks to rural supply, it's the dependable choice for any project, ensuring communities thrive.

**McWane Ductile: Building Iron Strong
Utilities for Generations®.**

McWaneDuctile.com



POCKET ENGINEER
Available for iOS + Android or
online at pe.mcwane.com.



McWane Ductile Completes Construction of \$50 Million Project Focused on Poles Section Casting and Annealing Operations

NEW BUILDING POSITIONS BUSINESS FOR FUTURE GROWTH AMID INCREASING DEMAND FOR STATE-OF-THE-ART UTILITIES SOLUTIONS

McWane Ductile — Ohio announced the completion of its new Poles Section Casting and Annealing Operations building, located at its Coshocton, Ohio, facility. The concept and scope of the project commenced over two years ago, reflecting McWane Ductile's commitment to innovation and growth in the industry.

Construction of this state-of-the-art building marks a significant milestone for McWane Ductile's pole operations, with versatility being a key feature of the structure. It is designed to primarily produce Ductile iron pole sections while maintaining the flexibility to

swiftly convert to pipe manufacturing when required, ensuring operational efficiency and responsiveness to market demands. In partnership with EC&S from Birmingham, Alabama, which installed the casting machines, and Kraft Werks based in Medina, Ohio, which handled construction of the annealing oven, the project brought together top industry experts to ensure the venture's success.

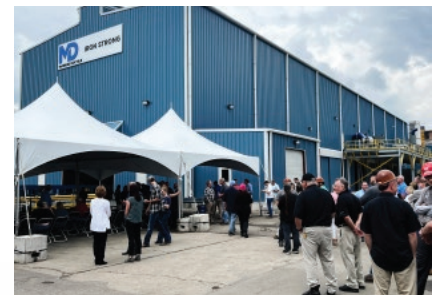
"We are very excited about this expansion and the capability it will provide," commented McWane Ductile — Ohio Vice President and General Manager Tom Crawford. "I am proud of the confidence



Pictured during the McWane Ductile — Ohio (MDO) Casting and Annealing Operations Ribbon-Cutting Ceremony from left to right: Jeff Otterstedt — McWane Ductile EVP, Rick Conkle — Coshocton County Commissioner, Amy Crown — Executive Director of the Coshocton County Chamber of Commerce, Kevin Bense — McWane Group President of Waterworks, Tom Crawford — MDO VP/GM, Phillip McWane — McWane Chairman, Bart Matthews — MDO Operations Manager, Dave Moore — MDO Finishing Superintendent, Mark Mills — Mayor of the City of Coshocton, Sean Helton — MDO Assistant GM, Tiffany Swigert — Executive Director of the Coshocton Port Authority and Dane Shryock — Coshocton County Commissioner.



McWane Ductile staff oversee the first piece of pipe produced in the new McWane Ductile Casting and Annealing Operations facility in Coshocton, Ohio.



Folks gather for the opening of the new McWane Ductile Casting and Annealing Operations in Coshocton, Ohio.

the McWane family has demonstrated in our plant, our poles business and our community by investing in this \$50 million capital improvement project. This endeavor will allow us to provide long-lasting, durable and resilient poles for reliable transmission and distribution of electricity across the U.S."

To commemorate this achievement, McWane Ductile — Ohio hosted a ribbon-cutting ceremony on Wednesday, May 15, to celebrate the official launch of the new building. Numerous community officials, employees and their families attended the event and were given a look inside the new facility. The completion of this significant addition underscores McWane Ductile's commitment to the Coshocton community and its dedication to advancing infrastructure solutions nationwide.

HOW IS DUCTILE IRON PIPE A HIGHLY ADAPTABLE OPTION FOR WATERWORKS INFRASTRUCTURE?

**BY STUART LIDDELL,
MCWANE DUCTILE SALES OPERATIONS MANAGER**

As a Sales Operations Manager in the waterworks industry, I recently attended the American Water Works Association's Annual Conference & Exhibition (ACE24) in Anaheim, California. This annual conference focuses on product innovations and the latest technological advancements in water infrastructure.

While at the ACE Conference, I was impressed by the dedication of utility authorities, engineers and manufacturers toward improving water quality and management. Different materials, like PVC, HDPE, RCP, steel and Ductile iron, are used for water pipelines, each with its own advantages. However, Ductile iron pipe (DI pipe) stands out for its strength, corrosion resistance and adaptability in various installation scenarios. On-the-fly layout changes during pipeline installations are simplified with Ductile iron pipe, fittings and accessories.

Although DI pipe, has been around for many decades, it has continued to evolve, ensuring even greater dependability for the end user. This article outlines key points about DI pipe's adaptability for pipeline installations.



How has joint technology allowed Ductile iron pipe to adapt to various pipeline installations?

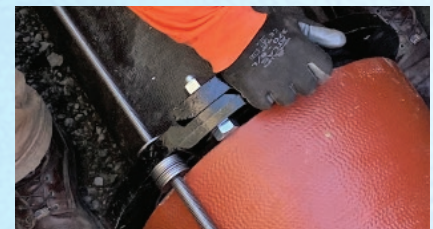
Ductile iron restrained joint technology advancements have enabled a broader range of installation techniques and applications. Modern proprietary designs are solid and durable. Consequently, these restrained joints have been incorporated into evolving installation practices, such as horizontal directional drilling (HDD).

DI pipe is well suited for HDD installations due to its durability and capacity to withstand the stresses of underground installation. Telecom and other utilities had used HDD installation for some time before it was considered for water and wastewater installations. This mainly involved fused or welded products in plastics or steel. However, the flexibility and resiliency that DI restrained joints offer made it a viable candidate for this

type of installation. From the early 1990s, countless successful HDD installations have used boltless DI restrained joint products, such as TR Flex®. These installations range from relatively short crossings underneath roadways to much longer installations under rivers or lakes without visual or structural effects on the surfaces or environments above.

How has Ductile iron pipe been adapted to hazard-prone areas?

Another area where the strength and resilience of Ductile iron pipe made for easy adaptation was in seismic or earthquake-prone regions. Again, current DI restrained joint technology was already a proven product in many of these regions. Still, continued innovation has led to an even more resilient design with Earthquake-Resistant Ductile Iron Pipe (ERDIP).





Most Ductile manufacturers now have ERDIP products made specifically for this application, which is the preferred material. Again, the primary reason is the strength and durability of Ductile iron, but new products, such as the Seismic Flex Coupling™, offer even more impressive results regarding expansion and contraction and increased deflection capabilities. These qualities allow the pipe to withstand tremendous

ground movement without concern for breaks or separation.

How have Ductile iron gaskets improved product adaptability?

When discussing a product such as an iron pipe that has been used for over two centuries, restrained or “locking” gaskets are another relatively new adaptation. Locking gaskets, such as the Sure Stop 350 Gasket®, improve the flexibility and adaptability of Ductile iron pipe in water pipeline installations. Easy to install, these innovative materials allow the pipe to accommodate ground movement, thermal expansion and contraction without compromising the seal or structural integrity. Add to this the various elastomers for which gaskets can be provided, then there is virtually no installation where the DI pipe cannot be adapted to the environment in which it will be installed.

How do various linings expand the capabilities of Ductile iron pipe?

Ductile iron pipe offers lasting versatility in water and sewer pipelines through various linings and coatings tailored to numerous operational requirements.



The first recorded use of cement-mortar linings in iron pipes was in 1922. Portland cement-mortar linings provide an excellent physical barrier to prevent the buildup of flow-reducing tuberculation in unlined pipes. Recent flow tests have shown that cement-mortar linings maintain their smooth hydraulic characteristics for potable water systems for many decades, some for 100 years or more of continual service.

For highly abrasive or aggressive fluid transport, such as sewage or chemical lines, ceramic-modified amine-cured novolac epoxies have evolved to be a reliable option in internal and external protection of the underlying Ductile



iron pipe surfaces. Some of these advanced epoxies also carry the NSF-61 certification, permitting their use in raw to potable water systems. Where elevated service temperatures are present in aggressive fluid pipelines, glass lining can enhance durability and abrasion resistance. These epoxies and glass options take well to Ductile iron; no glue is required.

How have the manufacturing principles of Ductile iron pipes been adapted to electric utility poles?

McWane Ductile has adapted its manufacturing principles and techniques

from Ductile iron pipe to create Ductile iron electric utility poles. This evolution has dramatically enhanced our electrical powerline infrastructure’s strength, durability, fire resistance and critical hardening. Ductile iron’s superior innate properties make it an ideal material



for utility poles exposed to harsh environmental conditions, ensuring long-term reliability and structural integrity, even against hurricanes.

Incorporating many additional features, such as customized pre-drilled cable or attachment holes and connectors, enhanced coatings for corrosion protection, and aesthetic finishes, make Ductile iron utility poles a modern wonder of performance and endurance.

How can Ductile iron pipe adapt to your waterworks project?

This article has touched on key points addressing the adaptability of Ductile iron pipe for infrastructure needs. DI pipe’s ability to adjust to match different installation conditions is unparalleled. I proudly represent DI pipe and its crucial role in maintaining safe and reliable water delivery systems. If you have questions or want to learn more about Ductile iron pipe for your water or wastewater infrastructure projects, contact your McWane Ductile representative at McWaneDuctile.com.



DEAR DITCH DOCTOR,

I have an issue with my current pipeline project, which is so very frustrating! This issue has happened before on other projects of mine, so I am reaching out to you for advice and/or help. The city inspector keeps "failing" the hydrotest of a pipeline we just installed as soon as it loses 6 pounds of pressure, or 6-psi. He says, "Stay within 5-psi of the target pressure, or you have failed! No exceptions!" He won't even let us continue to see where it settles out or if we meet the standardized allowable recovery volume, which I've always believed to be the ultimate judge of pipeline fitness anyway. This project ain't my first rodeo, and I'm tired of getting bucked! What can I say to this guy? Help me, please!

Sincerely,
Failing in Florida

DEAR FAILING,

First, let me reassure you that you're not the only one being "bucked" by this misunderstanding. Some other contractors have contacted me about not being allowed to even drop a single PSI in pressure during their hydrotest! Yup, you heard that right — held to a "zero pressure drop" requirement, which is not in line with nor supported by the actual industry standard being incorrectly imposed upon you. But I've got good news for you! For most people, at any time in their lives, "losing 6 pounds or more" is generally considered a good thing, especially if it is based upon advice from your actual doctor. But not so in a pipeline hydrotest. As held in the governing standards, the original rules used a combination of pressure drop and recovery volume as a two-pronged gauge of a pipeline's fitness for service. Of course, if the line falls to 0-psi, you have a leak somewhere, the test has failed and corrective action is needed. The 5-psi pressure loss restriction was introduced and used as a guide to indicate that your filling and flushing process has removed all the "meaningful" air out of the pipeline. **Air compresses, but water does not.** That's a critical difference to keep in mind. When you turn the pump off during a pressure test, any trapped air, no matter how small or large the bubble, will expand and reflect on the gauge as a pressure loss. Stay within 5-psi of the target pressure for your test, and obviously, most, if not all, of the air has been exhausted prior. A loss of more than 5-psi IS AN INDICATOR but not a ruler or decider. In some pipelines, a small amount of trapped air, no bigger than a football in total size, can cost you 25 or 30-psi on a gauge. But is it only trapped air causing this loss? That's the question ultimately answered by the recovery volume, in ounces or gallons, used to regain the lost pressure. So, here's the good news — in realized recognition of the ongoing confusion

often caused by "trapped air" — in 2017, the AWWA standard addressing hydrotesting was revised to read, "Test pressure shall be maintained within this tolerance [\pm 5 psi] by adding makeup water through the pressure test pump into the pipeline. The amount of makeup water added shall be accurately measured (in gallons or liters per hour) using suitable methods. It shall not exceed the applicable testing allowance as specified." So yes, you can flick the pump on and off as many times as needed during the time frame of your test to stay within 5-psi of the target pressure, keeping track of the total water used, and use that total volume as the ULTIMATE JUDGE of your pipeline. The point is that no pipeline of any size or length will stay within its computed recovery volume limit if it has an active leak. Plain and simple.

The hydrotest accounts for the water tightness of an assembled pipeline, and the recovery volume incorporates things that happen to a newly pressurized pipeline, like pipeline growth at the joints under pressure and water absorbing into the concrete lining, to name two considerations. And don't panic if you get a 30 or 40-psi drop in your first pressurization; just an inch or two of total growth in length due to pressure forces can easily cause such a drop. Only worry if your pipeline drops to zero. And then call someone for assistance. As a contractor, you should NOT BE good at finding or fixing leaks. If you are, that's a whole 'nother concern for me to write about. And that one would not be "good news!" And "zero pressure drop" test requirements? Don't get me started!!

Sincerely,
The Ditch Doctor

PROJECT PROFILES



West

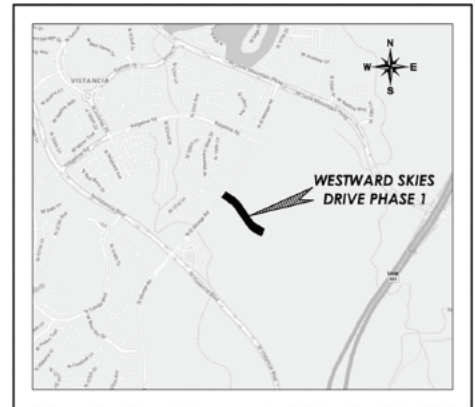
PROJECT PROFILE

With the Phoenix construction market still going strong, we partnered with Core & Main to meet the strict install delivery timeline for this project in northwest Peoria, Arizona. The Vistancia community is growing fast, and McWane Ductile was able to meet the requested timeline for this new housing development to get

the Ductile iron pipe on-site quickly. This project is expected to be installed safely and in a timely manner so the builder can start pouring slabs. Smaller quantities of pipe for this project will lead to large quantities for future phases to be installed in the coming months.

Rhino Contracting is the contractor providing the underground utility installation for this project. Rhino has been a part of the Arizona underground scene for many years, and hundreds of

projects have been completed. They continue to be both a proud partner with our distributor and have some of the most skilled field staff in the industry. Our collaboration with the distributor and contractor has been a pleasure, ensuring a seamless process from bid to installation. As we continue to navigate the dynamic Phoenix housing market, Mcwane Ductile remains steadfast in our commitment to ensuring our waterlines are #IronStrong for generations to come.



LOCATION MAP

Sales Region: West

Sales Representative: Ben Johnson

Project Location: Peoria, AZ

Project Name: Westward Skies DR Ph 1

Project Owner/Utility: Developer — Five North at Vistancia

Project Engineer: GM Civil Engineering, Chandler, AZ

Project Contractor: Rhino Contracting

Project Distributor: Core & Main

Types of Ductile iron pipe used on the project:

DIAMETER	JOINT	CLASS	FOOTAGE
6"	Tyton®	350	144
8"	Tyton®	350	1,386
12"	Tyton®	350	72
16"	Tyton®	250	1,602

Sales Region: Midwest
Sales Representative: Cole Mitcham
Project Location: Chandler, IN
Project Name: Chandler Water Transmission Main
Project Owner/Utility: Town of Chandler, IN
Project Engineer: Egis (formerly BLN)
Project Contractor: Reynolds Construction, LLC

Types of Ductile iron pipe used on the project:

DIAMETER	JOINT	CLASS	FOOTAGE
12"	Tyton® & TR Flex®	350	5,500
24"	Tyton® & TR Flex®	250	41,000



The Town of Chandler, Indiana, needed to improve the water supply to their end users, especially to elevated storage tanks within their system, and to provide redundancy for several critical medical and educational facilities. Egis, the Project Manager, stated, "Ductile iron pipe was selected for its durability, especially in handling transient pressure events. Using Ductile iron pipe helped the Town of Chandler secure preferred Green Project Reserve financing through Indiana's State Revolving Fund since Ductile iron pipe is predominately made

of recycled material." Town Council President Tonya Wester said, "This is the third of the three major water projects that will benefit residents in Ohio Township, which is experiencing

"Ductile iron pipe was selected for its durability, especially in handling transient pressure events."

population growth. With the addition of this pipeline, it should not only address the growth that's occurred over the last 15 to 20 years but also address the growth that will happen in the future as well."



PROJECT PROFILE

Midwest





Northeast

PROJECT PROFILE

Five Oaks Construction Co. of Groton, Massachusetts, was the apparent low bidder following the opening of bids on Oct. 23, 2023. The project entailed the spring 2024 replacement of a vintage 6" unlined cast iron water main that had badly tuberculated, reducing flows to area residents. The City of Medford Engineering Division determined the necessity to replace this out-of-date 6" cast iron main with a new 10" cement lined, zinc-coated, poly-wrapped Ductile iron water main to better service the local community for years to come.

The water main placement would use the current trench occupied by the outdated 6" line, so temporary water service was required to be established prior to project startup. Owner Mike Chase stated, "I appreciate McWane Ductile's prompt delivery of the necessary pipe to start this project. The installation will be slow and steady due to the removal of the existing 6" line, as well as additional utilities located within the trench area." The project completion time frame is summer of 2024.



Sales Region: Northeast
Sales Representative: Jeff Houser
Project Location: Medford, MA
Project Name: Winthrop Street Water Main Replacement
Project Owner/Utility: City of Medford, MA
Project Engineer: City of Medford Engineering Division
Project Contractor: Five Oaks Construction Co., Groton, MA
Project Distributor: Direct Sale

Types of Ductile iron pipe used on the project:

DIAMETER	JOINT	CLASS	FOOTAGE
4"	Tyton®	52	36
6"	Tyton®	52	54
8"	Tyton®	52	108
10"	Tyton®	52	1,000

Sales Region: South
Sales Representative: Scott Rhorick
Project Name: East Delivery System (EDS) Water Line Relocation
Project Location: Jackson and Calhoun Counties, TX
Project Owner/Utility: Lavaca-Navidad River Authority, Edna, TX
Project Engineer: Freese and Nichols, Inc., Houston, TX
Project Contractor: McKee Utility Contractors, LLC., Prague, OK
Project Distributor: Consolidated Pipe & Supply, Houston, TX

Types of Ductile iron pipe used on the project:

DIAMETER	JOINT	CLASS	FOOTAGE
36"	Tyton®	250	6,542
36"	TR® Flex	250	2,766



The East Delivery System (EDS) Waterline Relocation Project started at the end of a rough time in history. The COVID-19 pandemic caused interruptions in supply chains and shortages of finished products. These compounding factors led to soaring manufacturing lead times that were nearly a year. These long lead times required municipalities and engineers to find innovative ways to complete projects within the required deadlines. This was one of those projects. Lavaca-Navidad River Authority (LNRA) had to move a waterline out of the way of a scheduled road widening of FM 1593 in front of the Formosa Plastics Corporation in Port Comfort, Texas.

Freese and Nichols, Inc. and LNRA found a forward-thinking way to keep their project on schedule. When Freese and Nichols had the project's partial designs, they had a rough idea of what was required for the 36" waterline. They advertised a competitive sealed proposal for the 36" material to bid in August 2022. The proposal was awarded to Consolidated Pipe & Supply in Houston later that month. Consolidated Pipe & Supply had the material on order a couple of days after being awarded the project, and the Ductile iron pipe was placed into the manufacturing schedule.

Freese and Nichols continued work on the design of the 36" and the 57" line that required relocation. In January 2023, they advertised the proposal for construction, which bid on March 16, 2023. The project was awarded to McKee Utility Contractors, LLC from Prague, Oklahoma. McKee Utility Contractors started clearing and preparing the site location. On June 23, 2023, McWane Ductile started delivering pipe to the job site.

PROJECT PROFILE
South





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