

Project Profile: McGuire AFB



US Pipelining, LLC Completes Major Military CIPP Pipe Lining Rehabilitation Project. McGuire AFB Airfield Infrastructure CIPP Project Said To Be Largest Of Its Kind.

Philadelphia, PA – US Pipelining, LLC., an emerging leader in Cured-In-Place-Pipelining solutions (CIPP), announced today the completion of a major military project which included the cured-in-place-pipe rehabilitation of nearly one thousand (1,000') linear feet of ten-foot diameter (10') storm water piping located beneath the airfield apron



of the McGuire Air Force Base in Burlington, NJ. The over-the-hole installation of 10' diameter CIPP liner is among the largest to have been successfully completed anywhere.

Requiring more than a year of planning, sourcing, and logistics, the project involved support from the nation's premier suppliers to the industry. "Working with our resin supplier, AOC, and our liner manufacturer, Manufactured Technologies Corporation (MTC), we were able to achieve something that, to the best of our knowledge, has never be attempted", states Gary Horwedel, General Manager of US Pipelining, who has been involved in infrastructure rehabilitation and repair using trenchless technologies for over 25 years. "This project involved infrastructure running beneath the airfield of an active Air Force base. The pipes were twenty-two feet below grade and measured 122" inches around. The installation took place on the airfield, over-the-hole, and with military transport planes buzzing at our backs," says Horwedel. "This was an incredible achievement."

Project Name

JOINT BASE MCGUIRE-DIX-LAKEHURST (JBMDL) - CIPP LINING UNDER AIRPORT APRON/MCGUIRE AFB, NJ

Application

Class IV Restoration of 124-Inch Diameter "Triplet" Corrugated Metal Drainage Structures Under Active Military Airfield.

Design Criteria

ASTM F1216 "Fully-Deteriorated Gravity Pipe Condition"
Class IV Structural Design
Depth @ 30'
Live Load: Aircraft Load on Buried Pipe

Method

ASTM F-1216 AWWA Class IV Structural Cured-In-Place Pipe (CIPP)
ASTM F-1216 Inversion Using Hydrostatic Head and Hot Water Cure
Resin: AOC Vipel® L758-LTI Polyester Formulation for Underground Sewer Pipe Liners

Design Team

US Pipelining, LLC. 1100 Wood Lane Langhorne, PA 19067

Material Manufacturer

Manufactured Technologies Corporation (MTC)/AZURIA 580 Goddard Avenue Chesterfield, MO 63005

Resin Supplier

AOC Resins 955 Highway 57 Collierville, TN 38017

Contact Information

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“As projects go, this was one of the more challenging with which we’ve been involved”, states Bill Moore, AOC Product Leader-CIPP Resins. “Our team was



engaged from day one as we worked through the selection and formulation of the resin in order to meet both environmental and engineering specifications. The sheer size of the liners being installed required six tankers carrying over 240,000 pounds of resin to be transported to the Base from our plant in Canada. The logistics and delivery of material was a critical component”, said Moore.

“At 122 inches in diameter the liners were the largest our facilities have manufactured,” states Mark Wetzel, Senior Director, MTC. “Our design and manufacturing staff worked around the clock with the team at US Pipelining to ensure the liner materials and manufacturing specifications were met. This was a milestone for all involved.”

Since entering the pipe rehabilitation industry 25 years ago, US Pipelining has gained recognition for their ability to offer highly specialized rehabilitation solutions to a vast array of clients including global Fortune 500 Companies, high-rise residential and commercial buildings and government agencies worldwide. A leader in CIPP trenchless technologies, US Pipelining continues to grow their government agencies portfolio which includes the US Military, NASA, Fort Knox, Government of Mexico, Cayman Islands and numerous agencies throughout North America.

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About Cured-In-Place technology: Cured-In-Place Pipe technology (CIPP) is one of several “No-Dig” trenchless rehabilitation methods used to “noninvasively” repair existing pipelines. CIPP is a jointless, seamless, pipe-within-a-pipe with the capability to structurally rehabilitate pipes ranging in diameter from 4"-120".

With a design life of 50 years CIPP is one of the most widely used rehabilitation methods and has application in water, sewer, gas, and chemical pipelines.



About AOC Resins: AOC is a leading global supplier of resins, gel coats, colorants, additives and synergistic material systems for composites and cast polymers. www.AOC-Resins.com



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