

PASSAIC VALLEY SEWER COMMISSION MAIN INTERCEPTOR REHABILITATION

Overview

The Passaic Valley Sewerage Commission (PVSC) was established in 1902 and is comprised of 48 municipalities spanning five New Jersey counties. They have one of the largest service areas in the Eastern US, providing collection services for approximately 1.4 million residents, hundreds of businesses, and serviced by a 300 MGD treatment plant.

Insituform recently completed the rehabilitation of a large-diameter trunk sewer in the Patterson and Clifton, New Jersey area for the Sewerage Commission as part of a large trenchless rehabilitation project. While some of the sewers were rehabilitated by conventional sliplining using centrifugally cast fiberglass reinforced polymer mortar (CCFRPM) pipe by the general contractor, one difficult section was rehabilitated using Insituform® cured-in-place pipe (CIPP).

The PVSC Main Interceptor is a 22-mile long interceptor that follows the contour of the Passaic River. It is comprised of poured concrete and brick pipe composition and changes in diameter and shape from 3.5-foot circular to 12.50-foot semi-elliptical. The portion of pipeline rehabilitated by Insituform ran 1,100 linear feet from a 65-inch circular shape to 68-inch semi-elliptical. The section spanned five line segments with two sweeping 90-degree bends at depths of 30 to 36 feet, and was lined with a transitional liner that enabled the change in diameter within a single CIPP tube, eliminating the need for access at the diameter transition.

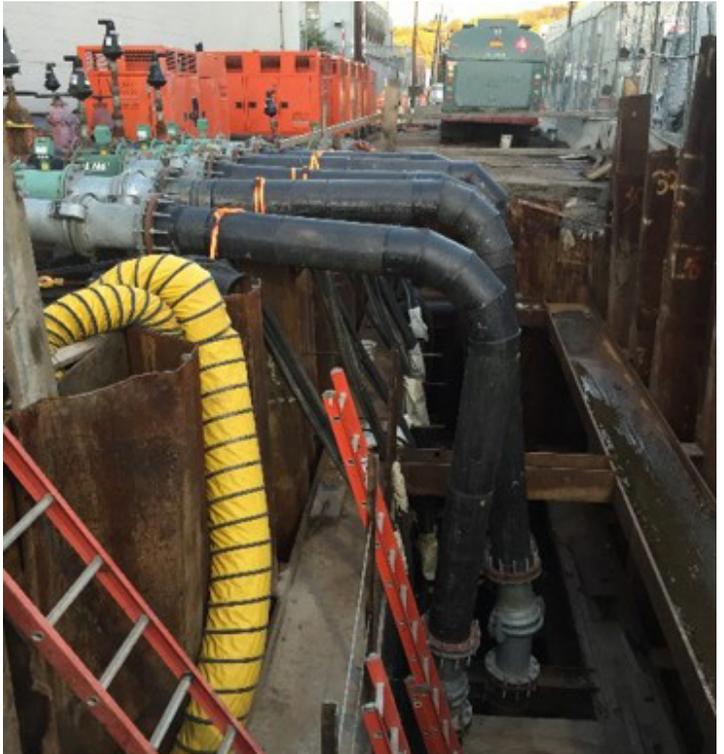
The CIPP installation was completed in one single installation, and was installed upstream using the transitional tube. Due to the large size of the tube and long installation length, the wet out portion was performed onsite using the over-the-hole (OTH) installation method.



Pipeline Details and Project Summary

Project:	Passaic Valley Sewer Commission Main Interceptor Rehabilitation
Location:	Passaic, New Jersey
Length:	1,100 LF
Diameter:	65-inch circular to 68-inch equivalent semi-elliptical
Installation:	Insituform® CIPP

PROJECT PROFILE: PIPE REHABILITATION
INSITUFORM® CIPP



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Insituform Technologies, LLC
636.530.8000
www.insituform.com

