

85 MGD Sewer Bypass Keeps CIPP Project on Schedule



Six 18" pumps created a temporary pump station to bypass the sewer-flow through four 24" HDPE lines.

PROJECT SCOPE

City required 85 MGD bypass system in order to perform CIPP project on 4,100' of 84-96" pipeline within a high density residential area.

CLIENT

Municipality and CIPP Contractor

INDUSTRY SEGMENT

Municipal/Construction

EQUIPMENT

- 7 - DV400 18" pumps
- 7 - E-CONTAIN[®] Spillguards
- 15,000' - 18" and 24" HDPE pipe, with fittings

BACKGROUND

Nearly one mile of 84-96" sewer line needed to be re-lined via CIPP method in a densely populated residential area. In order to perform this work, a large, high capacity bypass would be required.

OUTCOME

Rain for Rent's SWAT (Sewer Water A-Team) and local Branch teams worked together with a contractor to create a plan for the bypass portion of the job. Once the contract was awarded, Rain for Rent and the contractor delivered and installed the bypass system. The set-up utilized six primary and one back-up pumps to create a pump station that would bypass the sewer's flow through four 24" HDPE lines, totaling 15,000' of pipe. The system performed as planned for the duration of the project without incident.



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The system utilized seven pumps (six primary and one back-up) to create a pump station to bypass the sewer flow through four 24" HDPE lines.

HIGHLIGHTS

- Early in the bidding process, Rain for Rent began working with multiple contractors to identify critical questions and concerns prior to the pre-bid. The bypass design and estimate drawn up by Rain for Rent included a clear scope of how to address issues likely to be faced, helping contractors to build and submit stronger plans.
- Rain for Rent's SWAT and Engineering teams worked together to ensure the pump station and temporary pipeline system were designed to fit within a very tight work space while allowing for optimal traffic flow in a densely populated area.
- Adjacent to nearby residences, a sound wall was built around the pump station to help minimize noise concerns while keeping to a tight footprint.
- The bypass system installation was completed and tied in to the sewer line on time, in spite of shortened deadlines, and helped to ensure that costly delays were avoided.



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