

# 20 MGD, Multi-phase Bypasses Aid Large Sewer Renovation



## PROJECT SCOPE

Large metro area requires bypasses for sanitary sewer system upgrades and repairs.

## CLIENT

Municipality

## INDUSTRY SEGMENT

Construction/Municipal

## EQUIPMENT

- HDPE pipe: two miles of 12" and 18" with fittings
- Pumps: 30 ranging in size from 4" to 12", styles include: dewatering, high head, and trash
- Genset power units
- Telemetry Alarm Agents
- Road crossings
- Fusing machines
- Spillguards

## BACKGROUND

A large Southeastern city had outgrown their existing sewer main and wastewater treatment plant. Operating at peak capacity, the city's plant often failed to meet important environmental standards. The existing sewer pipeline would need to be replaced with a larger diameter mainline, and a new, high-capacity tunnel would need to be constructed. Additionally, the antiquated CSO (Combined Sewer Overflow) system would need to be separated; and with nearly 2 million customers, it was important to address and avoid any adverse impacts to residents.

## OUTCOME

Contractors for the city chose Rain for Rent to be directly involved in the engineering, planning, and deployment of the multiple temporary bypasses required for the three-phase installation of over 26,000' of sewer line. Thirty pumps and two miles of HDPE pipe were engineered into sewer bypasses that enabled repairs and upgrades. More than 30 bypasses, up to 20 MGD, were performed over the course of the project.

## HIGHLIGHTS

- For more than 18 months, Rain for Rent worked with city contractors to manage up to 20-MGD of sanitary sewer bypasses.
- Rain for Rent's qualified bypass experience and engineered design ensured the new sewer system was installed without complication; and pipeline contractors could focus on their rehabilitation work, knowing that the liquid-handling aspect was managed.
- Sound attenuated pumps lessened the noise-impact in residential areas.
- Prior to being brought online, the new pipeline was hydrotested to ensure environmental safety for the wetland areas and creeks in close proximity.

## CUSTOMER FEEDBACK

The city said that one of the most important aspects of making this complex project a success was finding a company that could effectively collaborate and communicate with their contractors and engineers; Rain for Rent met and exceeded their expectations.



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