

# Experience. Innovation.

## CASE STUDY

Colorado Lift Station | Northglenn, CO

### Colorado Lift Station Utilizes Stainless Steel Floor Doors for Pump Maintenance

In the world of municipal infrastructure, wastewater lift stations have an expiration date. Lift station failures over the past two years have impacted communities in New York, Texas, Pennsylvania and Louisiana as a result of neglecting maintenance and repairs for their current systems. The Colorado community of Northglenn recognized their lift station needed an overhaul to avoid this fate.

Northglenn needed a solution to access pipes regularly and push wastewater to its final destination at the community's treatment facility. California based J.R. Filanc Construction Company built a new lift station in an 18-month, \$10 million two-phase project that also included sewer line replacement for the Colorado community.

Filanc faced a significant challenge in the form of excavating a 54-foot vertical drop on a tight construction footprint. Lift stations require deep excavation to establish wet wells, serving as a holding zone for the wastewater collection system.

Filanc installed (14) floor doors from BILCO that provide safe access to pumps, process pipes and grinders for routine service and maintenance. "They met the specifications for this project", explained David Campbell, the construction manager on the project for Filanc. "BILCO doors are the industry standard and are used frequently in projects of this scope."

Purchased with support from Dalco Industries, the BILCO sales representative, the floor doors feature stainless steel construction and hardware for superior corrosion resistance. They feature BILCO's patented lift assistance design that allows for safe and easy one hand operation and are backed with a 25-year warranty, the typical service life of most lift stations.

BILCO's floor doors are commonly used in applications like the Northglenn lift station. The use of corrosion-resistant materials in the construction of the doors is a key feature, given the corrosive conditions of the wastewater environment. To ensure that the lift station runs efficiently, it is imperative that the pumps receive regular inspection and maintenance.

Northglenn needed another industry veteran for sewer pipe installation. The Colorado contractor BT Construction was selected by Northglenn officials to complete the task.

After about 10 months of working across different sections, the job was complete. "Big infrastructure replacements are messy and



disruptive ... and also important," civil Engineer Michael Roman said in a message to the community. "Frequent sewer line breaks due to aging sewer lines are a lot more disruptive, though, so we really need to get this replacement done."

Northglenn allocates funds to replace multiple sections of water distribution lines throughout the community on an annual basis. Given that most of the city's infrastructure dates back to the 1960s, these pro-active measures will mitigate the frequency of water line breaks, emergency repairs and water service interruptions.

Although the expenses for enhancing wastewater treatment plants are substantial, the consequences for delays are severe. Northglenn made important decisions for their community to guarantee their wastewater management systems are safe and reliable going forward.