



*Delivering sustainable infrastructure solutions
for tomorrow's communities*

► SEWER, STORMWATER & ROAD REHABILITATION

Project:

Vacuum Sewage & Stormwater Collection Systems

Location:

City of Marathon, FL

Profile:

The City of Marathon is known for its great fishing, beautiful beaches and incredible weather— all reasons why visitors from all over the world choose to spend time in this city known as “The Heart of the Florida Keys.” The City of Marathon includes Knight's Key, Boot Key, Key Vaca, and Grassy Key.

With a combination of low interest loans, and grants from the Florida Department of Environmental Protection (FDEP) along with meticulous engineering, critical planning and the careful implementation of all installation and construction activity, the City of Marathon and its residents along the 13 mile stretch of islands now enjoy:

- A comprehensive approach to wastewater management
- A stormwater management system to treat and dispose of run off from all 55 miles of the city roads and adjacent areas
- An asphalt overlay for almost every street as well the benefits of road major reconstruction and intersection improvements

Lanzo Construction's Expertise At Work

For Lanzo Construction, the scope of the work included the installation of a new AirVac Vacuum sewage collection system, an onsite stormwater collection system, custom curb work to control surface water and pavement restoration on the existing roads. The installation was made more complex due to need for heavy-duty trenching equipment and the excavation of caprock formation throughout the project.

Lanzo Construction installed an AirVac Sewer Collection System that included:

- Tens of thousands of feet of 4-10" PVC DR 21 Vacuum Mains
- Hundreds of Vacuum Valve Collection Pits

The stormwater collection system included

- The installation of hundreds of Nyloplast catch basins for the drainage system
- Tens of thousands of feet of perforated 18" HDPE drainage pipe installed in exfiltration trenches
- Gravity drainage wells ranging in diameter from 8" to 24" casings with concrete control structures
- The installation of thousands of feet of custom curb to control and direct surface water



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The Residents Had as Active Voice

Perhaps one of the most unique and delicate aspects of this project was the communication and coordination among the residents impacted by this multi-year construction project. The City of Marathon put into place a process for “Resident Change Orders” that allowed the residents, for a fee, to make changes in order to preserve their property. These changes, and many times sensitive one-on-one communications, required a high level of coordination between the engineers, the city, the residents and Lanzo Construction.

Success Earns Lanzo Construction Project of the Year

Lanzo’s construction expertise, careful scheduling and planning, and community communication throughout the process earned them recognition, along with the Owner & the Design Consultant, as one of the 2013 Project of the Year Awards by the American Public Works Association (APWA).