

## **COMMUNITY PARTNERSHIP FOR THE HOMELESS, INC – FORCE MAIN AND PUMP STATION DESIGN**

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**Client Name:** *Community Partnership for the Homeless, Inc.*

**Type of Service:** *Civil Engineering - Design/Bidding/Construction Service for Pump Station & Transmission Force Main System*

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Milian, Swain and Associates, Inc. (MSA) was retained by Community Partnership for the Homeless, Inc. (C.P.H.I.) to provide Engineering Services for a new Sewage Pump Station and associated Transmission System to serve the new Homestead Homeless Facilities located at SW 280 Street and SW 127 Avenue in Miami-Dade County, Florida.

MSA established the most feasible and cost effective route for the proposed sewage force main and generated the required Route Survey and Geotechnical Investigation Scope of Services for the project.

MSA developed a hydraulic model to verify the force main diameters required to convey sewage flows from the proposed facilities. Based on the hydraulic analysis, MSA designed and prepared construction drawings and specifications for approximately 1,300 Linear Feet (LF) of 8-inch force main and 650 LF of 16-inch force main connecting to an existing 48-inch Miami-Dade Water and Sewer Department (MDWASD) force main on SW 280 Street. The project also included a new “Donation” submersible pump station following the requirements established by MDWASD and Miami-Dade County Department of Environmental Resource Management (DERM).

MSA obtained all approvals for the proposed transmission and pumping system from the regulatory agencies having jurisdiction over the project.

MSA assisted during the Bidding and Construction Phases of the project to ensure that the new force main and pumping systems were built in conformance with the approved construction documents.

The proposed sewage system was constructed within the budget initially anticipated by MSA and the system was operational and ready to accept sewage flows from the new Homestead Homeless Facilities prior to their grand opening in 1998.