

HOBAS Case Study

Staten Island - World Record Set Using HOBAS CC-GRP Jacking Pipe Systems

One of the largest and most difficult pipe jacking installations ever attempted in the U.S. was the Oakwood Beach Interceptor on Staten Island, New York using special design HOBAS CC-GRP Pipe Systems. Contractor Cruz of Holmdel, New Jersey placed approximately 2 km of new DN 1500 sanitary sewer line. The job required nearly three years to construct due to the difficult soil conditions, very deep depths (24 to 27 m) and high water table (15 to 18 m above the pipes).



World record jack

This project was initially reported in August 1989 after the first push of 359 m was successfully completed. Since that time, Cruz attempted and completed jacks of 64 m, 407 m, 360 m, 475 m, 290 m and 150 m. Quoting from a Cruz press release regarding the 475 m distance: "The length appears to establish a world single drive jacking record using a remote-controlled microtunneling with slurry excavation technique." The laser guidance system brought all of the bores home within 2.54 cm of both line and grade.



HOBAS far superior

Cruz repeatedly stated that jacks of these distances in the Staten Island project conditions could only be completed with this success and reliability using HOBAS CC-GRP Pipe Systems. HOBAS Pipes provide benefits and a consistently high quality level unavailable with other jacking pipes. Other contractors working on adjacent sections of this massive project using other materials and procedures made little progress over the same three year period. In fact, the New York City Bureau of Sewers contemplated a contract extension to Cruz to install additional quantities of HOBAS Pipes on other portions of the Oakwood Beach Interceptor where other methods

were unsuccessful.

Year of Construction	1989 - 91
Duration of Construction	nearly 3 years
Length of Pipes Laid	2 km
Pressure Class	PN 1
Diameter	DN 1500
Stiffness Class	SN 60000
Method of Installation	jacking, microtunneling
Application	interceptor
Client	Bureau of Sewers, New York City
Contractor	Cruz, Holmdel, New Jersey

Features

- Difficult soil conditions
- Very deep depths
- High water table