

Punta Gorda, FL Utilizes Fusible PVC® Pipe for Horizontal Directional Drill Sections of Water Main Upgrade

As part of a Charlotte County road widening project for Aqui Esta Drive, the City of Punta Gorda, FL upgraded potable water utilities along the construction corridor. The design of the 8" and 18" water mains included several horizontal directional drill (HDD) sections that were originally specified as 10" and 20" HDPE pipe to compensate for the increased wall thickness required for HDPE. Upon learning of Fusible PVC™ pipe, Steve Adams, Utility Engineering Manager for Punta Gorda, agreed to consider substituting Fusible PVC™ at the same nominal size as the 8" and 18" bell-and-spigot pipe.

The project was awarded to Quality Enterprises USA, Inc. (QE) of Naples, FL in early 2009. Following the award, Lou Gaudio, Vice President of Project Management for QE, received approval from the City and its Ft. Myers-based design consultant, Johnson Engineering, to substitute Fusible PVC™ pipe. An 1,160 LF 18" bore under a canal and two 8" bores totaling approximately 200 LF under Aqui Esta Drive were successfully completed in the summer of 2009 by HDD subcontractor American Boring & Trenching, Inc.

Steve Adams commented: "We have a long track record with PVC pipe and know how to work with it. The equivalent size and maintenance features of Fusible PVC™ pipe are key advantages versus HDPE pipe. We like Fusible PVC™ pipe and have specified it for trenchless applications on other projects." Paul DiMeo, QE Project Superintendent, noted: "This was our first experience with Fusible PVC™ pipe and Underground Solutions. UGSI's field support was very professional in the face of some challenging site constraints which had to be accommodated. We won't hesitate to use Fusible PVC™ pipe again in the future."

Pipeline Details and Project Summary

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| Project: | Aqui Esta Drive Widening, Water Main Relocation |
| Location: | Punta Gorda, FL |
| Length/Pipe Size: | 1160 LF 18" DR18 Fusible C-905® (single subaqueous HDD) 440 LF 8" DR18 Fusible C-900® (two HDD road crossings) |
| Engineer: | Johnson Engineering, Ft. Myers, FL |
| General Contractor: | Quality Enterprises USA, Inc., Naples, FL |
| HDD Subcontractor: | American Boring & Trenching, Inc., Ft. Myers, FL |
| Distributor: | Ferguson, Ft. Myers, FL |
| UGSI Contact: | David Hunniford: (941) 928-3421 dhunniford@underground solutions.com |

Brent Garland, President of Advanced Boring & Trenching, commented: "Fusible PVC™ pipe's size and weight advantage significantly reduced the pull back requirement for the long bore. This was my second Fusible PVC™ project. It definitely delivers installation advantages over HDPE, especially for larger, longer bores."



Positioning 18" for Pull-In



Elevated Entry to HDD



Installation of 1,160 LF Bore

Underground Solutions (UGSI) provides infrastructure technologies for water/wastewater applications. UGSI's Fusible PVC™ products, including **Fusible C-900®**, **Fusible C-905®** and **FPVC®**, contain a proprietary PVC formulation that, when combined with UGSI's patented fusion process, results in a monolithic, fully-restrained, gasket-free, leak-free piping system. UGSI's **Duraliner™** is a patented, close-fit pipeline renewal system creating a stand-alone structural liner.