

CASE STUDY

Midland's Wood Street Ditch Enclosure Utilizes HP Storm

Midland, TX

OWNER

City of Midland, TX

ENGINEER

Dunaway Associates, Midland, TX

CONTRACTOR

TEC Excavation, Midland, TX

INSTALLATION DATE

July 2019

PRODUCTS

20' (6 m) of 12" (300 mm) HP Storm
2,780' (847 m) of 24" (600 mm) HP Storm
20' (6 m) of 30" (750 mm) HP Storm

CHALLENGE

To improve safety for drivers, the City of Midland launched a capital improvement project to enclose the open ditch along Wood Street.

SOLUTION

The ditch enclosure enabled the installation of a curb-and-gutter system along Wood Street. For stormwater conveyance within the enclosed section, Midland specified HP Storm polypropylene pipe, which was already approved for use within the city. HP Storm was selected due to its joint performance characteristics, structural durability, long-term service life, and cost efficiency.

The project required 2,780' (847 m) of 24" (600 mm) HP Storm pipe, with additional 20' (6 m) sticks of 12" (300 mm) and 30" (750 mm) pipe used to connect to the city's existing stormwater infrastructure.



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PRODUCT DESCRIPTIONS

HP Storm is a high-performance polypropylene pipe for gravity-flow storm drainage applications with premium joint performance and increased pipe stiffness. HP Storm couples advanced polypropylene resin technology with a proven, dual-wall profile design for superior performance and durability. The smooth interior wall offers additional strength as well as superior flow. HP Storm has an extended bell that adds an additional factor of safety within each joint. This innovative product meets or exceeds typical standards for pipe stiffness and joint integrity and meets ASTM F2881 and AASHTO M330 for the respective diameters. HP Storm pipe is approved for use by the Army Corps of Engineers, FAA, and AREMA.



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