

# DiamondWrap® HP™ 16” Dented/Gouged Natural Gas Pipeline

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**Customer:** Natural Gas Transmission Pipeline Operator

**Location:** Canada

**Pipe Diameter:** 16”

**Design Pressure:** 700 psi

**Pipe Contents:** Natural Gas

**Pipe Defect:** Dent and gouge extending approx. 130” axially along the pipe

**Development:**

A natural gas transmission pipeline operator approached Citadel Technologies with a gas pipeline that had been damaged by road construction nearby. The loss of integrity required a repair solution to ensure a safe environment for the nearby population, and operational restrictions were not conducive for a shutdown.

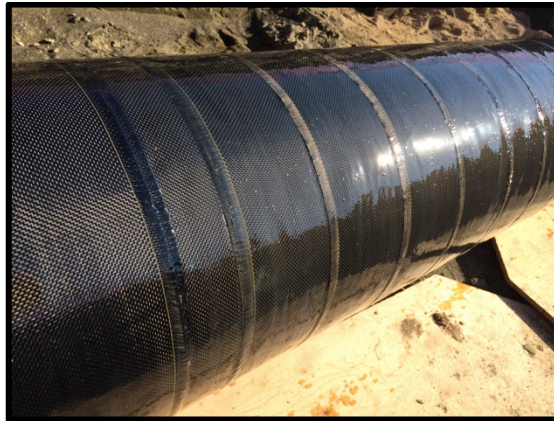


**Design:**

Citadel Technologies' team of highly skilled engineers designed a repair according to ASME PCC-2 Article 4.1, and recommended a DiamondWrap® HP™ repair solution to the customer. Only 4 layers of DiamondWrap® HP™ were required to repair the defect.

**Installation:**

A team of trained and certified installers installed 4 layers of carbon fiber over the specified repair area, according to the calculations prepared by the Citadel Technologies engineer. The repair cured overnight, and the ends were wrapped with a tape to prevent CP leakage. Below are photos of the completed repair:



**Conclusion:**

This gas utility company is an internationally recognized company, and Citadel continues to serve them and other national and international companies with its engineered integrity solutions.