

Emergency Watermain Repair of a Corroded 24" Pipe



PROBLEM

A 24" engineered steel watermain, which was previously protected with cold applied tape, encountered an unforeseen accident. It was struck by a fiber optic directional bore, causing a score at the bottom of the pipe. Over time, the damaged area succumbed to corrosion, and rust permeated through the steel, leading to the need for urgent repair to prevent water loss and maintain service integrity.

SUBSTRATE

CA6 Bedding with a FA6 backfill
Steel Pipe

PRODUCTS USED

Viscotaq ST 12" x 33'
PVC Outerwrap 6" x 100'

SOLUTION

1. Pipe Assessment and Removal:

A section measuring 13 feet of the damaged 24" watermain was cut out.

2. Pipe Replacement: A new 13-foot section of steel pipe coated with fusion-bonded epoxy was prepared.

3. Welding and Securing: The new pipe section was securely welded into place with new butt straps.

4. Corrosion Protection

Application: After the welds were completed, Viscotaq ST, a visco-elastic sealant tape, was wrapped around the welded seams.

5. Outer Protection: To provide additional protection and mechanical strength, a PVC Outerwrap was applied over the Viscotaq ST. This outerwrap ensured that the entirety of the repair site was shielded from environmental factors.