

Manhole Repairs - Cypress, TX



Methodology

Ventilation and odor control used:

Forced air provided for ventilation

Rehab method used:

a) This project was deemed an Emergency because 48" manhole had collapsed creating a sinkhole in the surrounding soil. Prior to installation of the Danby liner, the contractor had to bypass 1 of 2 10" force mains and excavate the remains of the manhole out. The contractor installed 27 VF of 8' ID liner plate, then reconstructed the manhole with a double mat of rebar and proceeded to install Danby PLIII 1" flat panels (3½) 8' vertical sections. The (2) 10" force main were reconnected using a custom fabricated 24" HDPE force main drop. An 8'x8'x18"

thick concrete HS20 load rated manhole lid was also constructed with the underside having the corrosion resistant Danby PVC liner. b) A 48" manhole was rehabbed using Danby PLIII 1/2" profile spiral wound method. A 5'x5'x18" manhole lid was constructed with the underside having Danby PVC liner. This project was done by Boyer, Inc. of Houston, TX
Cleaning method used (if required) and who cleaned the line:

a) Manhole was excavated out b) Hydroblasting with 8K to 10K PSI water pressure

Method of flow bypass or diversion, if used:

By-pass of (1) 10" Force main, Internal by-pass for the 2nd 10" Force main directly to the 18" downstream line

Hurdles

Problems encountered during construction:

None

Problems encountered after construction:

None