1. Stamford Sewer before rehabilitation



Hydrogen Sulfide gases have deteriorated the concrete in the sewer thus exposing and attacking the rebar reinforcement.



2. Stamford Sewer after rehabilitation

Sewer interior has been protected with a fully structural Cured-In-Place-Pipe (CIPP) liner.

3. Stamford Sewer manhole before rehabilitation



Hydrogen Sulfide gases have deteriorated the concrete in the manhole above sewage levels thus exposing and attacking the rebar reinforcement.



4. Stamford Sewer manhole after rehabilitation

Manholes are cleaned with high pressure water, parged with a cementitious coating and then covered in a spray applied epoxy coating. This protects the manholes from further deterioration due to hydrogen sulphide gases.

5. Complex Bypass Pumping Systems



Complex bypass systems are installed upstream of the project to divert the sewage around the project site. CIPP Installations require dry working conditions.



6. Complex Bypass Pumping Systems

Complex bypass systems are installed upstream of the project to divert the sewage around the project site. For Stamford Phase I, four (4) large submersible pumps were used to maintain sewage flows.

7. Complex Bypass Piping Systems



Complex bypass piping systems are installed to carry the flows from the bypass pumps to a discharge point downstream of the project site approximately two (2) kilometers away.



8. Cured-in-place pipe liner installation

Stamford Sewer Rehabilitation is completed by inverting a resin impregnated felt tube liner into the sewer and curing it with steam.