

Project Profile



Project:

VDOT Culvert Rehabilitation – Dan River Church Road, VA

Lynchburg District, Halifax Residency, Dan River Church Rd (36°43'35.2"N 78°52'14.1"W)
45' of 24" round CMP under Dan River Church Rd, structural pipe restoration.

Engineered Structural System:

Nukote Metal Prime I @ 5 mils, Nukote PP300 @ min 1050 mils, Nukote ST-M @ 120 mils as a topcoat on Nukote PP300. applied to properly prepared substrate, in direct conjunction with the Project Specification. The installed system was certified to perform independently of the existing culvert, capable of carrying the roadway above independently.

Completion Date:

June 2020

Client:

VDOT (Virginia Department of Transportation)

Manufacturer:

Nukote Coating Systems

Contractor/ Applicator:

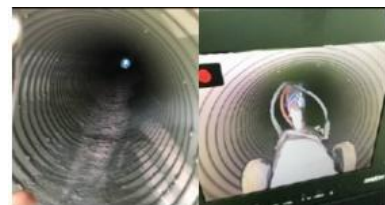
Atlantic Industrial Coatings

Area:

45' of 24" round CMP

Location:

Virginia



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Description:

The project involved spraying a structural liner inside of a deteriorated, galvanized corrugated steel culvert. Due to corrosion, the structural bearing capacity of the culvert had been compromised and an engineered solution to carry the load of vehicular traffic was needed. A solution which did not disrupt traffic and, simultaneously, minimized flow reduction was required. The chosen method of rehabilitation involved utilizing Nukote PP300 and Nukote ST-M to create a structural, composite liner.

Host pipe was dewatered and cleaned. Multiple areas of the invert were missing and required repair/filling. After repairs were performed, the pipe was cleaned again, dried and the ends of the pipe were primed. The entire pipe was coated lightly with ST-M (~30 mils) using Ringtech 360 system. PP300 (1050mils) was then applied using the Ringtech 360 system. ST-M (150mils) topcoat was then applied with Ringtech 360.

VDOT installed an upstream wing which was cleaned, primed and coated with ST-M manually to be monolithic with the structural top coating.

