

CASE STUDY

N-12[®] Slipline Saves Time

New Castle County, DE

OWNER

Delaware DOT, Wilmington, DE

INSTALLATION DATE

May 2007

CONTRACTOR

Delaware DOT, Wilmington, DE

PRODUCTS

100' (30 m) of 60" (1500 mm) N-12

DESCRIPTION

A crumbling culvert under four-lane State Road 48, called Lancaster Pike, in New Castle County needed to be replaced. The 72" (1800 mm) RCP was corroding and the reinforced steel had been exposed.

Instead of replacing the pipe, a 100' (30 m) run of 60" (1500 mm) N-12 pipe was used to slipline the corroding RCP. By slipling the pipe, the Delaware DOT saved more than \$850,000 and months of construction on the road, which averages nearly 16,000 vehicles a day. The slipling of the pipe only took two days to complete and came without interruption to traffic.

Installation was easy as five 20' (6 m) lengths were joined and slipped into place by a four-man crew and backhoe. A slurry of fly ash, cement and water was pumped in to fill the void between the worn-out 72" (1800 mm) RCP and the new N-12. The slurry filled voids between the two pipes in case the RCP did eventually crumble and would maintain the structure's integrity.

N-12 was selected because of the smooth interior, which improves hydraulics, the watertight joint, corrosion and abrasion resistance and exceptional strength.



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