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W/O. No.: POL056-04-28-57624-1
 P.O. No.:
 Report Date: 4/30/2004

PROJECT INFORMATION

D-LOAD BEARING TESTS

Method: ASTM Designation C497-98
 AASHTO Designation T280-00

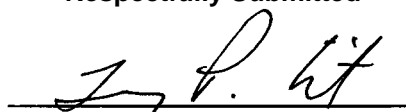
Two samples were received for testing. One was a Wheeling galvanized corrugated culvert pipe, and the second was a similar Wheeling galvanized corrugated culvert pipe with a PTLs-11600 liner. Both were subjected to a D-Load, or three-edge-bearing, test as directed in ASTM C497 for circular pipe. The corrugated pipes had a helical seam, that with the beginning of the seam placed on top, or at 12:00 position, would spiral along the length, culminating at the 9:00 position at the opposite end, or of 75% around the circumference. The beginning of the seam was located at this top position for the load bearing tests.

Sample	Sample Length	Maximum Load Applied	Ultimate Strength	D-Load Strength
Culvert pipe only	2 ft.	2,753 lbs.	1,377 lbf/ft	689 lbf/ft/ft
Culvert pipe with PTLs-11600 liner	2 ft.	6,190 lbs.	3,095 lbf/ft	1,548 lbf/ft/ft

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Stork SWL, is an operating unit of Stork Materials Technology B.V., Amsterdam, The Netherlands, which is a member of the Stork group

Respectfully Submitted


 Terry Wilt
 Manager, Product Evaluation

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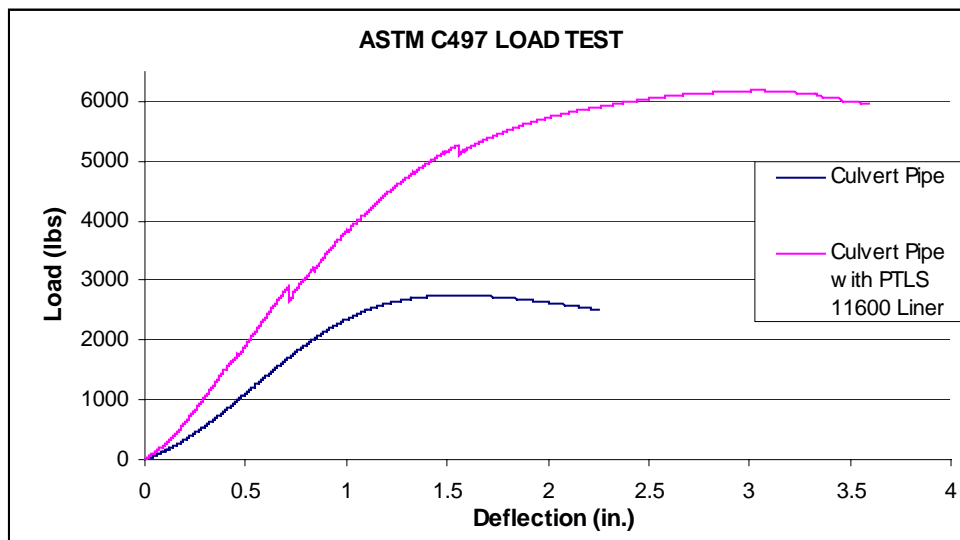
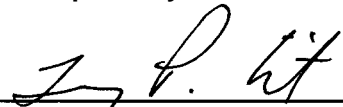


Chart plots actual applied load vs. pipe deflection.

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