96 Inch Diameter
Steel Reinforced HDPE
DuroMaxx Pipe Installation

WIN 18538.00
US Route 1, Warren, Maine
October 2014
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WARREN
KNOX COUNTY
US ROUTE 1
STATE PROJECT NO. 018538.00
PROJECT LENGTH: .01 MILES

TRAFFIC DATA
Current (2002) ADT: 16,000
Future (2025) ADT: 12,200

PROJECT LOCATION:
WARREN, US ROUTE 1 - APPROXIMATELY 6.31 MILES NORTHERLY OF THE INTERSECTION OF ROUTE 1 AND THE NORTH POND RD.

PROGRAM AREA:
HIGHWAY PROGRAM

SCOPE OF WORK:
LARGE CULVERT REHABILITATION, PIPE END REPLACEMENT

FUNCTIONAL CLASS: Principal Arterial
DuroMaxx Pipe

• Eighty (80) ksi steel reinforcing (SR) provides the strength; pressure rated polyethylene (PE) resin provides the durability.

• The combination of materials results in an extraordinarily strong and durable pipe that sets a new industry standard (Contech).
DuroMaxx Pipe

• DuroMaxx is designed with a smooth inner wall for outstanding hydraulic capacity (Contech).

• Available in diameters ranging from 30 to 120 inches and manufactured in standard lengths of 14 or 24 feet with both bell and spigot and welded coupler joints (Contech).
DuroMaxx Pipe

• A 96” x 42’ DuroMaxx pipe was specified to replace a rotted multi-plate steel round pipe.
• This is an extension for a concrete box culvert.
• The DuroMaxx pipe was specially fabricated by Contech to the 42’ length.
• At 87 pounds per foot, DuroMaxx is approximately ½ the weight of structural plate pipe (Lane).
Excavating old steel multi-plate pipe.
View of existing steel pipe damage.
Inside factory welds of two lengths of DuroMaxx pipe.
Outside factory weld.
DuroMaxx pipe being off-loaded on site.
DuroMaxx lowered into trench.
DuroMaxx fitted to existing box culvert.
DuroMaxx pipe grouted into existing concrete box culvert.
Backfilling DuroMaxx pipe.
After slope restoration.
Special thanks to Dean Rowlands, Resident Inspector for his help in gathering information and photos.

Additional product information and specifications from:
Contech Engineered Solutions LLC, http://www.conteches.com
Lane Enterprises Inc., http://www.lane-enterprises.com

By Dale Peabody & Doug Gayne, Transportation Research Division.
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