

# Portsmouth, NH

## Culvert Reline with Weholite



The New Hampshire Bureau of Turnpikes Project Manager, Nasser Yari was concerned about the condition of an existing multi barrel corrugated metal culvert system that was installed in the 1960's. These culverts located on I 95 under Portsmouth Circle in Portsmouth, NH carry water to the Atlantic Ocean and are under very deep fill. Portsmouth Circle is also a major traffic circle controlling the access for Route 1 Bypass North & South, US 4/NH16/Spaulding Turnpike and I95.

Digging and replacing the culverts would have been very expensive and caused a traffic nightmare that would last months. The Bureau of Turn-pikes selected 66" Weholite to slip line 3 of these 82" x 78" culverts each 625' long, thus eliminating the traffic concerns and reducing overall costs.

Extending the life of the existing pipes far into the future without compromising the existing flow were key features of the decision making process. Weholite HDPE pipe would give the longevity they were looking for and roughness co-efficient, Mannings "n" of .010 would deliver, not only the existing flows, but potentially greater flows if needed.

The job was completed in the summer of 2009 and took approximately one month to complete.

Denis Switzer, Contract Administrator stated that "the job was challenging and that he would recommend using Weholite again.



Weholite pipe being inserted into host pipe

### **Project:**

I 95 Culvert Lining under Portsmouth Circle – Portsmouth, NH

### **Owner:**

New Hampshire Turnpike Authority

### **Application:**

Lining 3 x 625' long existing 82" x 78" CMP Culverts

**General Contractor:** Northeast Earth Mechanics, Pittsfield NH

### **Sub-Contractor:**

Culvert Rehabilitation Services, Auburn ME

### **Agent:**

Broad Cove Associates, Portland ME