Extract from City of Raleigh **Public Utilities Handbook**

http://www.raleighnc.gov/portal/server.pt?space=Dir&spaceID=2&in_hi_userid=2&control=OpenSubFolder&subfolderID=2496&DirMode=1

PIPE MATERIALS (Mains Only)

a. Reinforced Concrete Pipe

Reinforced concrete pipe shall be designed and manufactured to the strength requirements of ASTM C-76-99, according to the depth of cut as specified and as shown on the construction drawings. Reinforced concrete pipe may be used for sewer mains 15-inch in diameter and larger. Pipe joints and joint material shall conform to the requirements defined in ASTM C-443-98. All reinforced concrete pipe shall be internally coated with one coat of a 20% solids, deeply penetrating, dual-component polyurea primer (0.5 – 1.0 mils dry film thickness, 150 ft^2/gal), one intermediate coat of a dual component polyurea (50-100 mils dry film thickness, 50 ft^2/gal), and one top coat of a 65% solids, two-part polyurea (7.5-10 mils dry film thickness, 125 ft^2/gal). Polyurea coatings shall be Duramer 1030 as manufactured by SewerKote, or approved equal.

b. Ductile Iron Pipe and Fittings

Interior Linings for Precast Reinforced Concrete Manholes

All sanitary sewer interceptor/outfall manholes and manholes receiving a sanitary sewer force main discharge shall be internally coated with one coat of a 20% solids, deeply penetrating, dual-component polyurea primer (0.5 – 1.0 mils dry film thickness, 150 ft^2/gal), one intermediate coat of a dual component polyurea (50-100 mils dry film thickness, 50 ft^2/gal) and one top coat of a 65% solids, two-part polyurea (7.5-10 mils dry film thickness, 125 ft^2/gal). All coats can be applied by brush, spray, or roller. Polyurea coatings shall be Duramer 1030 as manufactured by SewerKote, or approved equal.