

## RINKER MATERIALS COMPUTER DESIGN PROGRAMS

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The Concrete Pipe Division has developed four computer design programs that are available for distribution to various consulting engineers, designers, and agency engineering departments. These programs are available at no charge.

The four programs are:

### **Hydrogen Sulfide Design**

Predicts sulfide build-up and calcium carbonate required Az corrosion protection for sanitary sewers.

### **Life Cycle Cost Analysis**

Predicts the total project life cost for different types of piping material given the project life and material life.

### **Flexible Pipe Design and Analysis Program**

Computes load, short and long term deflection and strain, wall thickness, pipe stiffness and buckling strengths for various flexible pipes under specified design conditions.

### **Culvert Hydraulics**

Computes required circular culvert sizes given various design requirements, inlet control, outlet control, headwater depth, slope, etc.

It should be noted that the designer controls these programs in that the designer inputs all the required design data, safety factors, pipe material, trench conditions, etc. This enables the designer to analyze a variety of different pipe materials for consideration on the project.