GRAVITY FLOW GROUTING OF VOIDS

Metal Culvert Overview Flowchart
Structural Defects Flowchart (Metal)
Bedding Deficiencies Flowchart (Metal)
Hydraulic Capacity Flowchart (Metal)

1. DESCRIPTION

This method is routinely used to fill voids in the soil under corroded or undermined inverts. The grout can be merely poured into the void from above (assuming it would completely fill the void without entrapping air) or be poured through a tremie pipe or tube (the grout fills the void from the bottom upward eliminating the potential problem of entrapped air). Portland cement based grouts and mortars, as well as chemical and foaming grouts (those that foam and expand when they come in contact with water) can be used (Balinger and Drake, 1995).

2. REFERENCES

Ballinger, C.A., and P.G. Drake, 1995. *Culvert Repair Practices Manual* , Vol 1 & Vol 2 (Appendices), FHWA-RD-95-089, May 1995, US Department of Transportation, Federal Highway Administration (FHWA), McLean, VA, 330p & 321p

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