



HISTORIC
FRANKLIN
TENNESSEE

ITEM #18
WRKS 12/14/2010

MEMORANDUM

December 1, 2010

TO: Board of Mayor and Aldermen

FROM: Eric Stuckey, City Administrator *ES*
Paul Holzen, Engineering Supervisor
David Parker, City Engineer/CIP Executive
Joe York, Street Department Director

SUBJECT: Resolution 2010-85 Authorizing Expenditure for Drainage Culvert Rehabilitation on Sugartree Lane

Purpose

The purpose of this memorandum is to provide the Franklin Board of Mayor and Aldermen (BOMA) with information to consider Resolution 2010-85, authorizing drainage culvert rehabilitation on Sugartree Lane.

Background

A large stormwater drainage culvert located on Sugartree Lane in Maplewood Subdivision is severely deteriorated and in need of rehabilitation. Staff has considered multiple options to repair the culvert. One option is to relocate existing electrical utilities and dig up the existing culvert. Costs based on annual contract pricing including relocation of existing utilities so work could be preformed was \$110,000. Another option is to line the inside of the deteriorated culvert with CIPP pipe. This method has been estimated at approximately \$100,000. A third option is to install a high-density polyethylene (HDPE) pipe (SnapTite®) within the existing culvert and grout the space between the old pipe and the new pipe. Staff has determined that the HDPE method is the most cost effective method which will result in an effective stormwater drainage culvert. A preliminary estimate for installation of an HDPE product is approximately \$75,000, but could be increased due to the nature of the repair. Staff will seek at least three (3) bids from separate vendors of this type of product. Installation will be done in-house by COF Streets Department Stormwater Division.

Financial Impact

The HDPE repair method can be installed for approximately \$75,000.

Recommendation

Staff recommends amending the Stormwater budget in the amount of \$75,000 to cover the cost of repairing this culvert. Payment is to be obtained from the Stormwater Reserve Fund.

RESOLUTION 2010-85

**A RESOLUTION TO AUTHORIZE THE EXPENDITURE OF \$75,000
FOR THE SUGARTREE LANE CULVERT REHABILITATION PROJECT
TO BE PAID FROM THE STORMWATER RESERVE FUND**

WHEREAS, a portion of the public stormwater/drainage infrastructure located on Sugartree Lane is deteriorated and in need of repair; and

WHEREAS, the Stormwater Division of the Street Department of the City of Franklin proposes to repair the existing culvert at an estimated cost of \$75,000; and

WHEREAS, the Stormwater Reserve Fund has been established for such uses and has the available funds to pay for these repairs; and

WHEREAS, staff will use City purchasing procedures to obtain the necessary materials to repair the stormwater/drainage infrastructure.

NOW THEREFORE, BE IT RESOLVED BY THE BOARD OF MAYOR AND ALDERMEN OF THE CITY OF FRANKLIN, TENNESSEE, that BOMA authorize the release of funds, approximately \$75,000.00, for the repairs of the public infrastructure located on Sugartree Lane and said amount to be paid out of the City's Stormwater Reserve Fund.

IT IS SO RESOLVED AND DONE on this 11th day of January 2011.

ATTEST:

CITY OF FRANKLIN, TENNESSE

By: _____

ERIC S. STUCKEY
City Administrator

By: _____

JOHN C. SCHROER
Mayor

Approved as to Form

By: _____

Shauna R. Billingsley
City Attorney

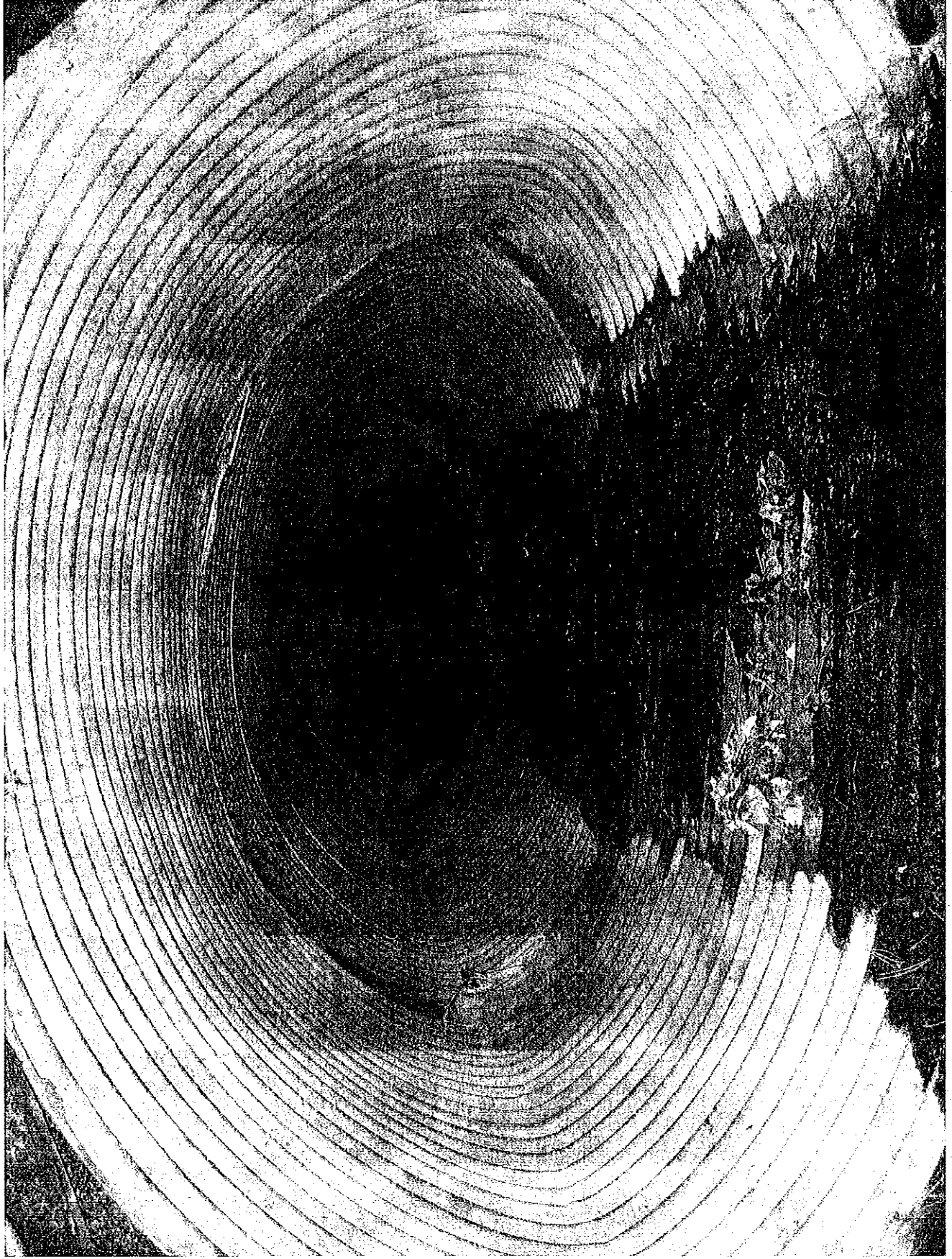


Photo 1: Looking into discharge end of structure (Note shape, separation and debris)

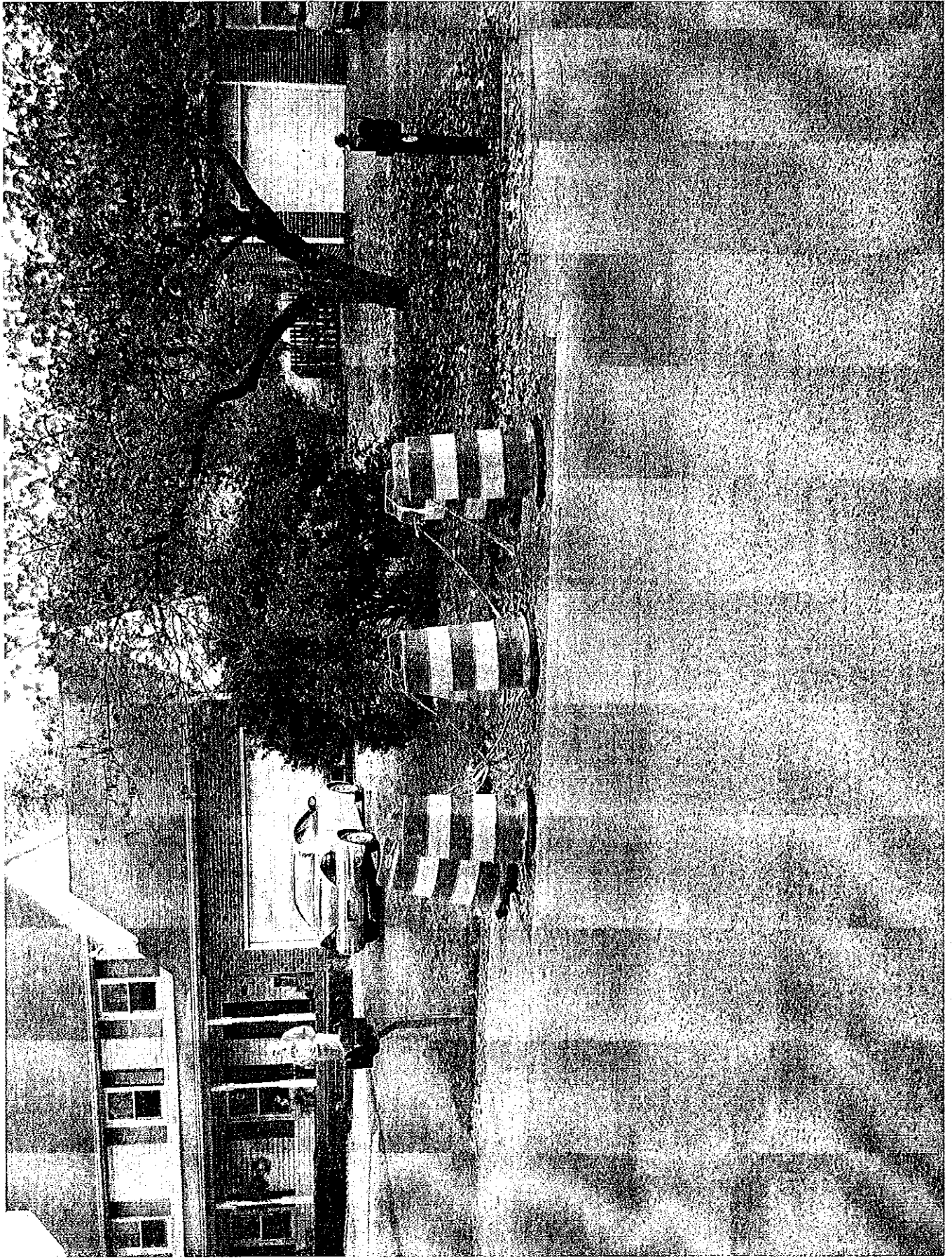


Photo 2: Stormwater inlet on east side of Sugartree Lane

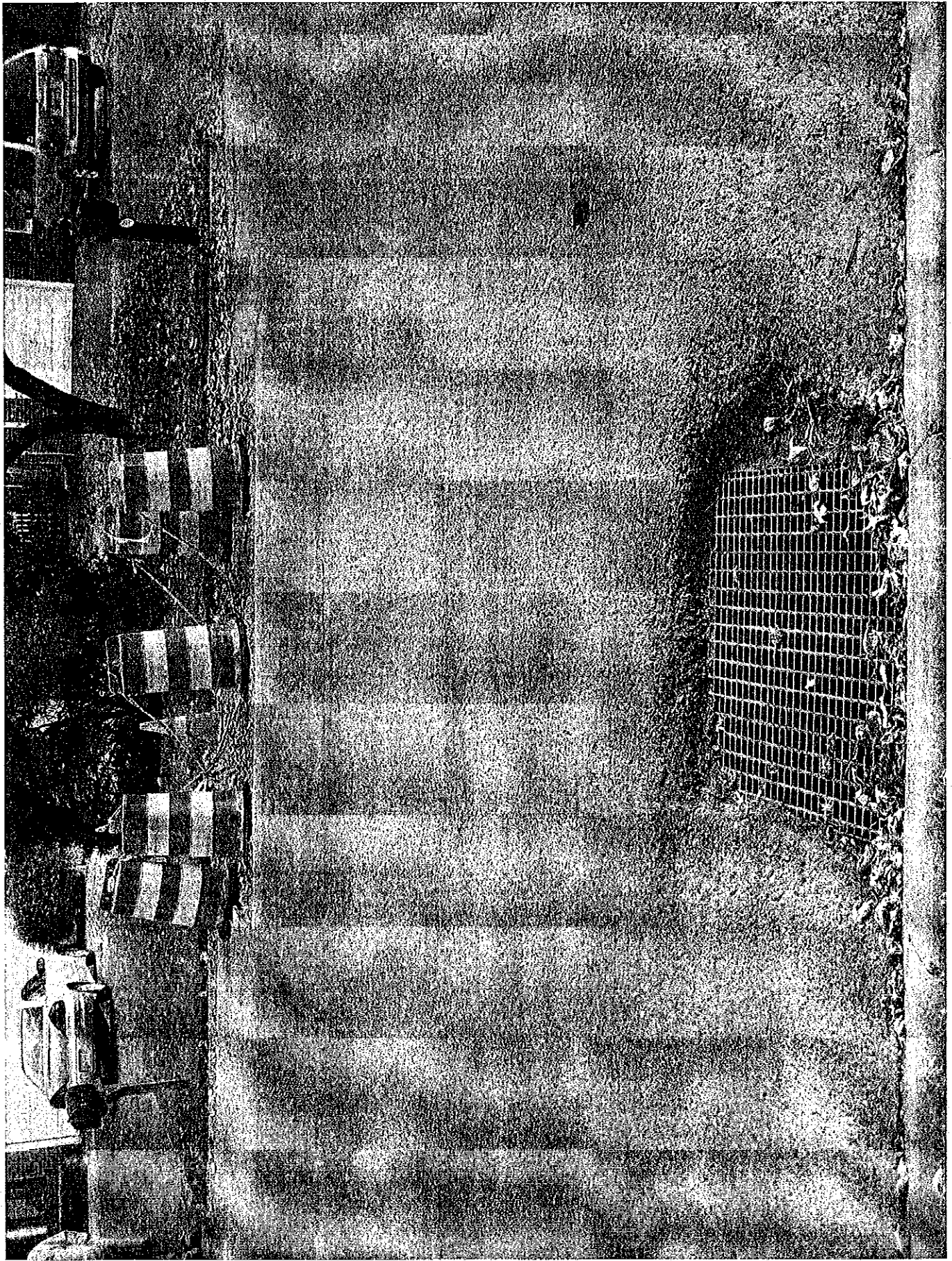


Photo 3: Stormwater inlet on west side of Sugartree Lane

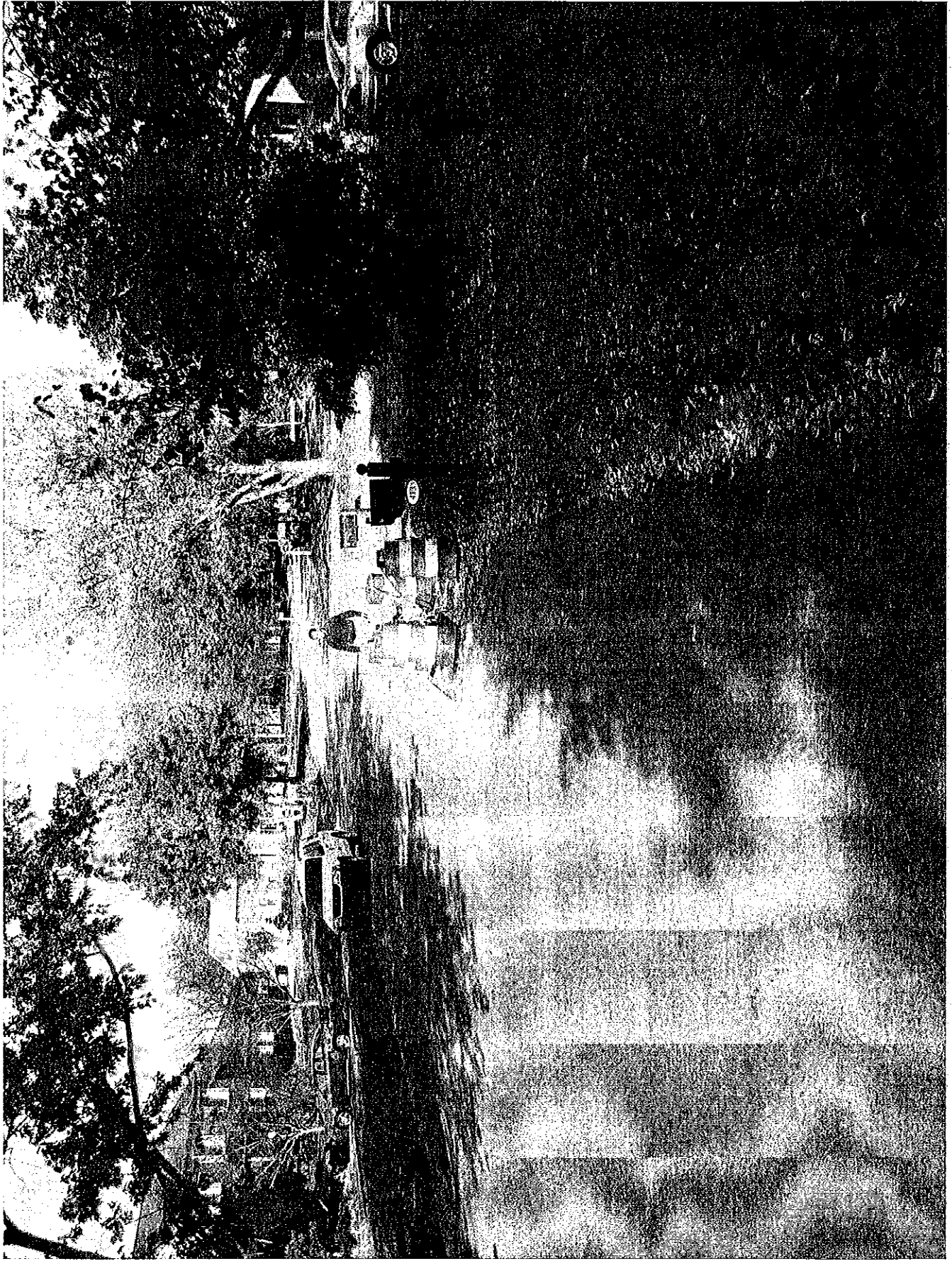


Photo 4: Looking north along Sugartree Lane