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STORMWATER RENOVATION
AND
MANAGEMENT PLAN
FOR THE
LAKE POCOTOPAUG WATERSHED

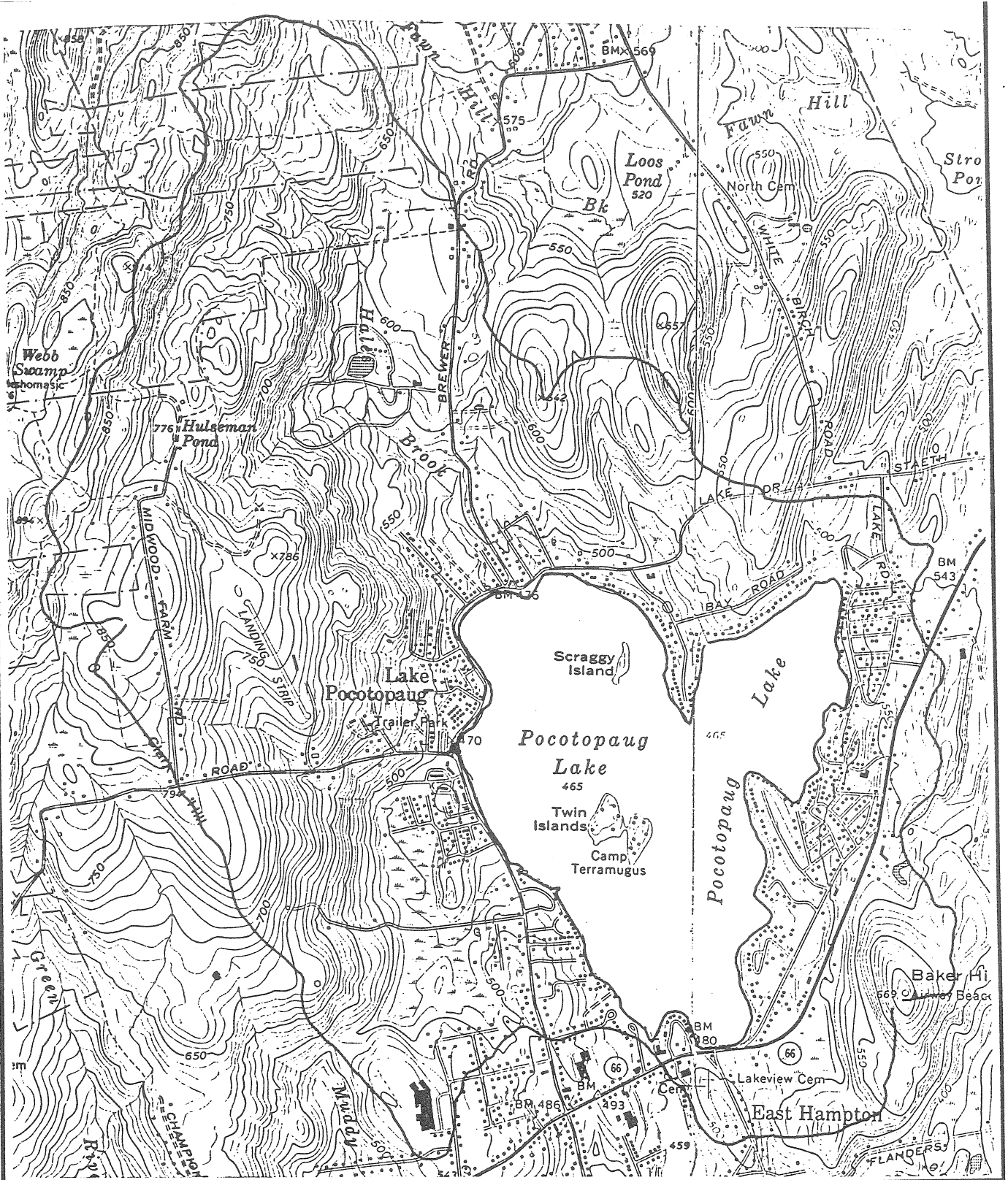
PREPARED FOR THE
TOWN OF EAST HAMPTON

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**PROJECT LOCATION AND
 WATERSHED AREA MAP**

**LAKE POCOTOPAUG
 EAST HAMPTON**

1. Study Background and Objectives

I. Lake Pocotopaug

The 512 acre freshwater Lake Pocotopaug is located in the Town of East Hampton, Connecticut. Lake Pocotopaug is considered a major recreational resource by the Town and is used for boating, swimming and fishing. As such, the lake is also a substantial economic resource, and further enhances the town by providing aesthetic value to not only the Town's residences but also to those traveling the State highway through Town.

Lake Pocotopaug has, in the past, experienced severe algae blooms, turbid lake water and runoff laden with sediments, organic material and nutrients from the watershed. These events occur with noticeable frequency and have in the past limited recreational uses and impacted the aesthetics of Lake Pocotopaug⁶.

The Town has recognized that without proper and continuing watershed management, it is probable in the future that the lake will experience additional algae blooms with increasing frequency and of a longer duration. Furthermore, without a management plan in effect, sediment and nutrient laden runoffs to the lake will continue adding to the algae problems and thus will limit this valuable resource.

This being the case, the Town has formed various Committees to identify problems, determine their causes, and recommend a course of action in an effort to improve and manage lake water quality. One of the most important conclusions of these Committees was the recommendation to develop and implement a watershed management plan. An integral part of any watershed management plan is how to manage and control stormwater inputs to the lake. To this end, the Town of East Hampton retained the services of WMC Consulting Engineers to develop a stormwater renovation and management plan, which can then be incorporated into an overall watershed management plan for Lake Pocotopaug, if desired by the town.

II. The Stormwater Renovation and Management Plan

The objective of this Stormwater Renovation and Management study is to present, for possible implementation, recommended improvements and control measures to the existing stormwater runoff system entering Lake Pocotopaug, in an attempt to reduce sediment, nutrient and pollutant loading to the lake. The Stormwater Renovation and Management Plan recommendations can be implemented in conjunction with the an overall watershed management plan.

By identifying existing and potential problems and/or sources of sediment, nutrient and pollutant loading to Lake Pocotopaug, as well as providing potential solutions, the measures presented in this report should provide a significant step towards improvement of the existing lake water quality. The final stages for recommended improvements includes the final design and initiation of construction of the proposed improvements.