

THE UNIVERSITY OF MICHIGAN
REGENTS COMMUNICATION

ACTION REQUEST

Subject: East University Plaza Area / Palmer Drive
Correction of Flooding Problem

Action Requested: Approval to Proceed with Project

Background:

The buildings on the east side of the Diag, particularly Randall Lab and Dana, have recently flooded during heavy rains. In addition, the Palmer Drive area also floods during heavy rains. The storm water piping system, located under the East University Plaza, flow to the south and are undersized. The storm water system piping that drains the Palmer Drive area, flowing north under Glen Avenue, is also not large enough to handle peak storm events. Consequently, the undersized piping downstream from the East University Plaza and Palmer Drive areas does not allow sufficient drainage from each site. The flooding problem requires resolution.

Several options have been studied to correct the problem. Each option includes expansion of the storm water capacity north of the East University Plaza area to allow a northward redirection of flow. One option is to install a larger capacity storm water pipe under Glen Avenue. Another option includes constructing a small storage basin under the proposed parking structure on Palmer Drive and pumping water to an infiltration system under Palmer Field. Finally, we examined the potential to construct a larger storage basin under the proposed parking structure.

An analysis of costs, construction requirements, energy usage, and disruption of other services in the area indicates the most feasible and cost effective option is to construct the pump storage basin under the parking deck to be built behind the power plant. The storage basin will require approximately 140,000 cubic feet to store water from peak conditions. As the stormwater subsides in the piping systems, the basin will be slowly pumped into the existing pipe underneath Glen Avenue.

We request approval to replace storm sewer lines in the East University Plaza area northward through the Palmer Drive site, and coordinate construction of a pump storage basin with the parking structure. The project will cost \$2,900,000 and will be funded from central sources.

We recommend the Regents approve proceeding with this project as described.

Respectfully submitted,



Robert Kasdin
Executive Vice President

March 2000

APPROVED BY THE REGENTS ON

MAR 20 2000