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CITY OF SACRAMENTO

DEPARTMENT OF PUBLIC WORKS

ENGINEERING DIVISION

THOMAS M. FINLEY
Engineering Division Manager

May 20, 1986

Transportation and Community Development Committee
Sacramento, California

Honorable Members In Session:

SUBJECT: Summary of Levee Damages - February, 1986 Storm

SUMMARY

This report summarizes the damage incurred during the February 1986 storm to the levee system protecting Sacramento. It is expected that this damage will be repaired prior to next winter. The work may be funded by the Federal Government through their storm damage repair program.

BACKGROUND

The February 1986 storm, with its resulting high flows in rivers and streams in the Sacramento area, caused damage to some of the levee systems protecting the City from catastrophic flooding. This damage has been or is expected to be repaired prior to next winter. As mentioned in a separate report, these levees are maintained by several public agencies including the City. A tabulation of the levee damage, the maintaining agency and the approximate cost is listed below.

<u>Damage</u>	<u>Agency Responsible for Maintenance</u>	<u>Estimated Cost</u>
Sacramento River - Slips on landward side of levee, east bank, north of I-5	Reclamation District 1000	\$500,000
American River - Localized erosion on River side of levee south bank, west of I-5	American River Flood Control District	\$200,000
American River - Levee cracking north bank, east of Del Paso	American River Flood Control District	Unknown, possibly up to \$500,000

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<u>Damage</u>	<u>Agency Responsible for Maintenance</u>	<u>Estimated Cost</u>
American River - Slipout on river side of levee, south bank, east of I-80	American River Flood Control District	\$500,000
American River - Erosion on river side, south bank at CSUS	American River Flood Control District	\$300,000
Beach Lake Levee Slips on landward side at south City Limits	City of Sacramento	\$500,000
American River - Erosion damage to levees, banks, and recreational facilities, at various locations east of Mayhew, on south bank	County of Sacramento	Unknown, possibly in excess of \$2,000,000
American River - Erosion damage, north bank east of Cal Expo	State Department Water Resources	Damage repaired, no costs available at this time, but probably less than \$200,000
Sacramento River - Erosion damage, slips and excessive water boils, south of 25th Avenue	State Department Water Resources	Costs not available from State. Corps of Engineers to study Pocket area boils and recommend course of action

The agencies involved in the above levee repairs are working with F.E.M.A. and/or Corps of Engineers to obtain Federal funding for the necessary repair work. In general, the Corps of Engineers will be asked to fund any repair work involving "Project Levees" which are generally defined as the Sacramento River and American River levees. F.E.M.A. will be asked to fund all other repairs. All of the agencies involved appear to be optimistic that all or at least a majority of the damage repair to levees and other public facilities will be funded from federal and/or state sources.

In addition to the above repairs, there are two flood protection projects which the City should fund before next winter, though they are not technically the City's responsibility. They are as follows:

1. Levee on north side of Arcade Creek at Hagginwood Park estimated cost = \$350,000
2. Flood gate Main Avenue at Natomas East Drain estimated cost = 150,000

Total including engineering and contingencies = \$500,000

In both cases this was the first time that water overflowed at these locations. This was due to historically high water levels in these major channels.

FINANCIAL

None.

RECOMMENDATION

This report is for information only.

Respectfully submitted,

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All Districts