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JUN 16 1987

BY THE CITY COUNCIL
OFFICE OF THE CITY CLERK

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DEPARTMENT OF
PUBLIC WORKS

ENGINEERING DIVISION

June 16, 1987

City Council
Sacramento, California

Honorable Members In Session:

SUBJECT: Guy West Bridge Repair

SUMMARY

The evaluation of the recent minor failure of the Guy West Bridge is nearing completion, and emergency repair contract will soon be awarded. Repairs are anticipated to be completed by July 15, 1987. No Council action is required.

BACKGROUND

On May 21, 1987, the Guy West Bridge, a pedestrian/bicycle bridge over the American River near California State University Sacramento, was closed because of the failure of three hanger cables connecting the bridge deck to the main suspension cables. Since that date, staff have worked with Caltrans Materials Laboratory and Bridge Structures Department to identify the cause of failure. The failure of the cables was caused by a fatigue of the cable at its connection to the bridge deck. The connector was too rigid, and movement of the cable caused the cable strands to break. This failure is much like repeated bending of a wire until it breaks. A design modification to eliminate this problem has been developed and approved.

X-ray testing of all the remaining cable connections to the bridge deck is complete. This information is being analyzed to determine if additional cables need repair.

Repair of the broken or damaged cables will occur in two phases. Phase one will involve replacement of the hanger cables currently removed from the bridge. These repairs will be complete and the bridge reopened by July 15, 1987.

CITY OF SACRAMENTO
CALIFORNIA

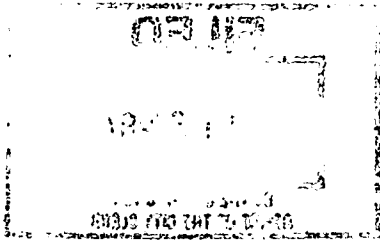
CITY MANAGER'S OFFICE

RECEIVED
JUN 11 1987

CITY HALL
ROOM 300
915 I STREET
SACRAMENTO, CA
95814-2608

916-449-5307

THOMAS M. FINLEY
ENGINEERING DIVISION
MANAGER



June 16, 1987

City Council
Sacramento, California

Honorable Members in Session:

SUBJECT: Guy West Bridge Repairs

MEMORANDUM

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City Council
Guy West Bridge Repair
June 16, 1987
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Phase two repairs will be based on an analysis of the x-ray testing information. From this analysis, additional cables may be replaced. A time schedule for completion of these repairs has not been determined.

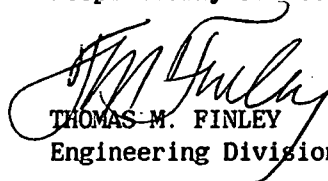
FINANCIAL

The Phase I repair is estimated to cost less than \$25,000, and is proposed to be funded by a reallocation of TDA funds. Appropriate fund transfers will be made when the scope of work and project cost is finally determined. Phase II cost, if any, are still to be determined.

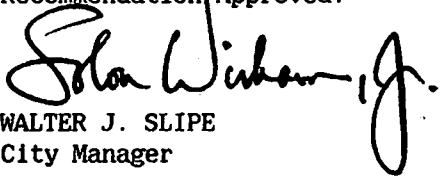
RECOMMENDATION

No Council action is required at this time.


Respectfully submitted,


THOMAS M. FINLEY
Engineering Division Manager

Recommendation Approved:


for: WALTER J. SLIPE
City Manager

Approved:


MELVIN H. JOHNSON
Director of Public Works

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June 16, 1987
District 3

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RECOMMENDATION

No Council action is required at this time.

Respectfully submitted,

THOMAS H. TIMNEY
Engineering Division Manager

Approved:

Recommendation Approved:

MELVIN W. JOHNSON
Director of Public Works

WALTER A. SILBE
City Manager

June 22, 1987
District 3

June 22, 1987
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