

CITY OF OAKLAND
AGENDA REPORT

FILED
OFFICE OF THE CITY CLERK
OAKLAND

2008 MAY 29 PM 3:05

TO: Office of the City Administrator
ATTN: Deborah Edgerly
FROM: Community and Economic Development Agency
DATE: June 10, 2008

RE: **Resolution Authorizing The City Administrator To Appropriate \$970,000.00 For A Capital Improvement Project To Rehabilitate Deteriorated Storm Drainage Pipes And Structures Under Shepherd Canyon Road From Shelterwood Drive To Gunn Drive**

SUMMARY

A resolution has been prepared authorizing the City Administrator to appropriate \$970,000.00 for a capital improvement project to rehabilitate deteriorated storm drainage pipes and structures under Shepherd Canyon Road from Shelterwood Drive to Gunn Drive.

Shepherd Canyon Road is one of the City's major access roadways to areas in the hillside. A roadway failure occurred at the intersection of Shepherd Canyon Road and Shelterwood Drive on December 22, 2007. Over the past three years, roadway has failed along Shepherd Canyon Road at the intersections of Banning Drive, Tiffany Lane, and twice at the intersection of Shelterwood Drive. The cause of sinkholes is aged and deteriorated storm drain metal pipe under Shepherd Canyon Road.

Staff recommends approval of this resolution appropriating the needed funds.

FISCAL IMPACT

This resolution requests appropriation of \$970,000.00 in two phases from the Capital Reserve Fund (5510) for an urgent capital improvement project to rehabilitate the deteriorated storm drainage steel pipe and facilities under Shepherd Canyon Road from Shelterwood Drive to Gunn Drive. The design cost for this project is estimated at \$146,000.00. This amount should be appropriated this year to start design of the project and prepare the necessary construction documents. The remaining balance of \$824,000.00 will be needed by February 2009, when the construction document is ready for advertising and bidding. A new project will be created once the appropriation is approved.

Staff has filed a notice of interest with the Governor's Office of Emergency Services (OES) for assistance under Hazard Mitigation Grant Program (HMGP) DR-1731. Funds under this program are limited and the City's application will be evaluated against other applications by cities and public agencies in California for costs, benefits, environmental impact, and other

Item: _____
Public Works Committee
June 10, 2008

criteria. Although there is no guarantee that City may receive assistance from OES, staff will follow up with the City's notice of interest. If the City's application is approved and funds are available, staff will prepare a supplemental report to Council to receive and allocate state HMGP funds. Federal assistance will not exceed 75 percent of the total project cost.

BACKGROUND

Shepherd Canyon Road is one of the City's major access roadways to areas in the hillside. Roadway failures have occurred repeatedly over the past three years particularly at the intersections of Banning Drive, Tiffany Lane, and twice at the intersection of Shelterwood Drive. The most recent roadway failure occurred on December 22, 2007. These failures are the result of deteriorated storm drainage steel pipe installed prior to 1940's. The bottom of the existing 36-inch diameter storm drainage metal pipe has been eroded. This allows storm water to washout the backfill and roadway base materials into the pipe causing sinkholes and hazardous roadway conditions.

The deteriorated storm drainage pipe system along Shepherd Canyon Road is approximately 2,000 feet and consists mostly of corrugated metal pipes ranging from 36 to 54 inches in diameter. Refer to **Attachment A** for a brief view of the drainage system and typical views of deteriorated metal pipe.

The City's Department of Infrastructure and Operations (DIO) has repaired the roadway immediately after each failure prior to the latest incident which occurred on December 22, 2007 at the intersection of Shepherd Canyon and Shelterwood. The magnitude of this repair was large and DIO staff did not have the resources to complete the repair work immediately. Repairs at this site were completed by a contractor through an emergency contract.

Recommendations for storm drainage capital improvement project are included in the City's 2006 Storm Drainage Master Plan under the 10-year Priority Projects List. The requested funds in this resolution are sufficient to cover a portion of the projects identified in the Master Plan for Shepherd Canyon Road.

This project is estimated to cost approximately \$970,000.00 including \$146,000.00 needed immediately for engineering investigation and design, and \$824,000.00 needed by February 2009 for construction.

Staff recommends that funds be appropriated for this project while searching for funds to address the City's overall storm drainage facility improvements.

KEY ISSUES AND IMPACTS

Sinkholes reported along Shepherd Canyon over the past three years continue to appear during the rainy seasons due to aged and eroded storm drain metal pipe. In order to mitigate the impending hazards and unexpected roadway failures, staff is recommending that the storm drain pipes and structures under Shepherd Canyon from Shelterwood Drive to Gunn Drive be rehabilitated as soon as possible.

SUSTAINABLE OPPORTUNITIES

Economic:

The project will reduce the potential for traffic delays, roadway closures, and hazards to the roadway users.

Environmental:

The capital improvement project will prevent sinkholes and the washout of soil into the storm drainage system and creeks.

Social Equity:

The capital improvement project will eliminate potentials for sinkholes to appear on Shepherd Canyon Road and provides safe access for the roadway users.

DISABILITY AND SENIOR CITIZEN ACCESS

There is no direct impact to people with disabilities or senior citizens.

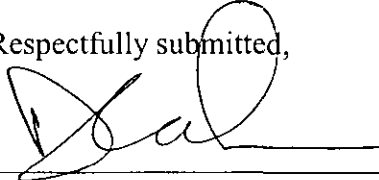
RECOMMENDATION AND RATIONALE

Staff recommends that the City Council approves the resolution authorizing the City Administrator to appropriate \$970,000.00 for a capital improvement project to rehabilitate deteriorated storm drainage pipes and structures under Shepherd Canyon Road from Shelterwood Drive to Gunn Drive.

ACTION REQUESTED OF THE CITY COUNCIL

Staff recommends that the City Council approve the resolution.

Respectfully submitted,



Dan Lindheim
Director
Community & Economic Development Agency

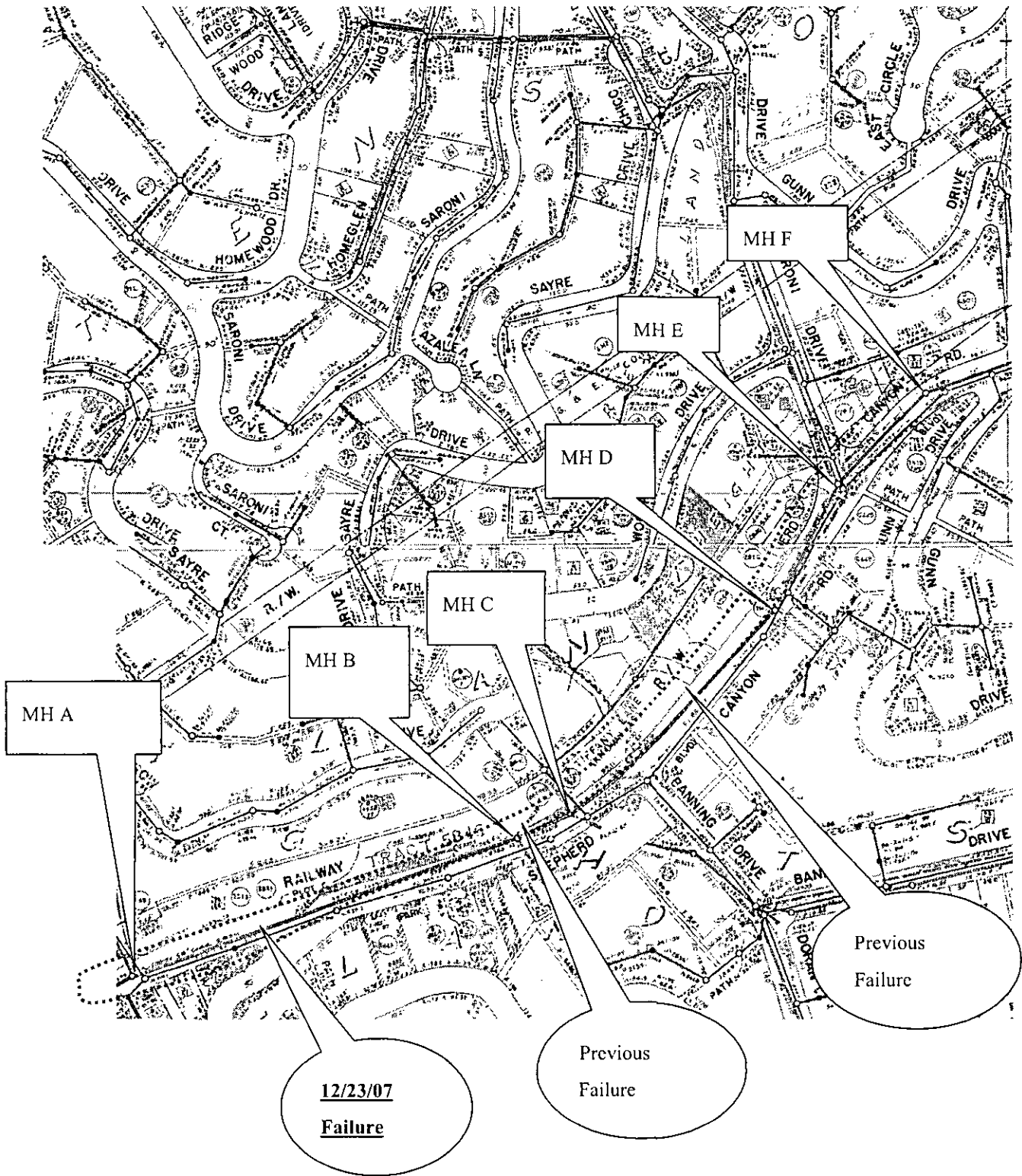
Reviewed by:
Michael Neary, P.E.
Deputy Director, Community & Economic Development Agency

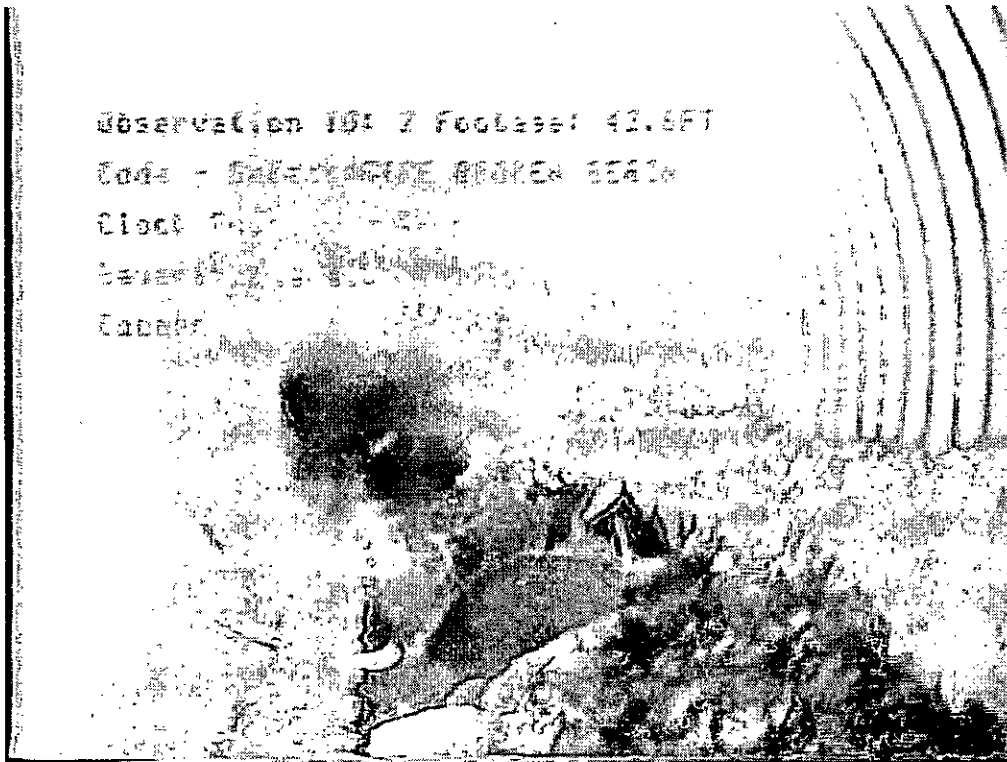
Prepared by:
Gus Amirzehni, P.E.
Division Manager, Engineering Design & R/W Management

APPROVED AND FORWARDED TO THE
PUBLIC WORKS COMMITTEE:

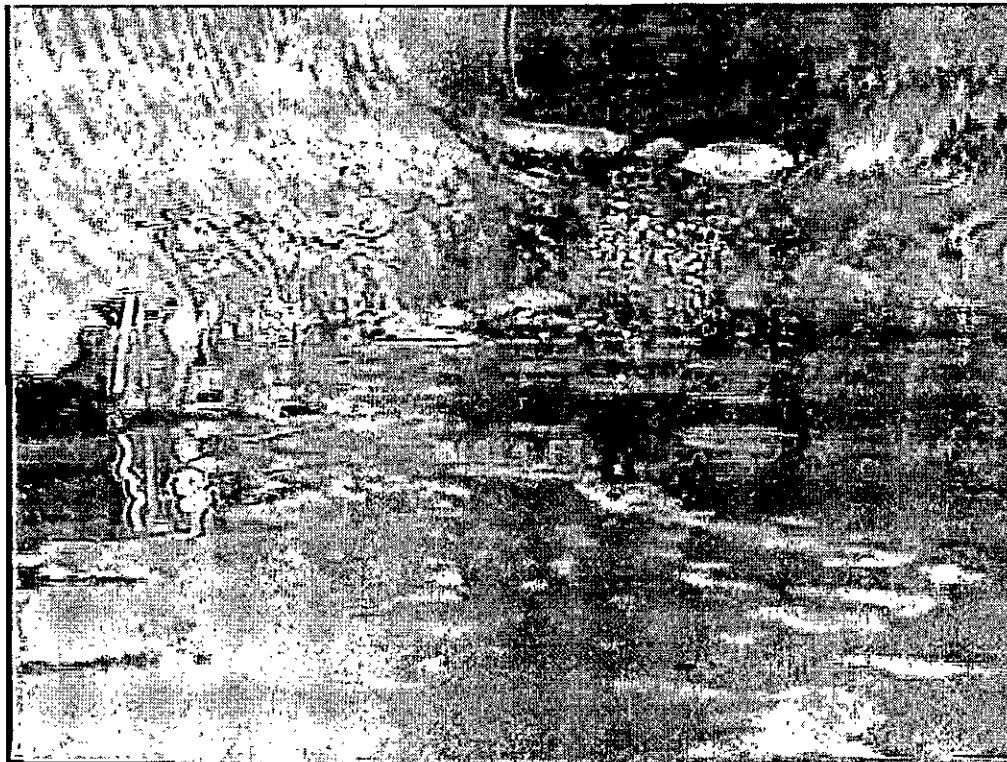

Office of the City Administrator

Attachment A
Storm Drainage Facility





Deteriorated Storm Drain Metal Pipe



Joshua P. ...
City Attorney

OFFICE OF THE CITY CLERK
OAKLAND
2008 MAY 29 PM 3:06

OAKLAND CITY COUNCIL

RESOLUTION No. _____ C.M.S.

Introduced by Councilmember _____

RESOLUTION AUTHORIZING THE CITY ADMINISTRATOR TO APPROPRIATE \$970,000.00 FOR A CAPITAL IMPROVEMENT PROJECT TO REHABILITATE DETERIORATED STORM DRAINAGE PIPES AND STRUCTURES UNDER SHEPHERD CANYON ROAD FROM SHELTERWOOD DRIVE TO GUNN DRIVE

WHEREAS, on December 22, 2007 a sinkhole appeared at the intersection of Shepherd Canyon Road and Shelterwood Drive as a result of deteriorated aged storm drain metal pipe; and

WHEREAS, over the past three years, roadway has failed along Shepherd Canyon Road at the intersections of Banning Drive, Tiffany Lane, and twice at Shelterwood Drive; and

WHEREAS, the cause of sinkholes is found to be the aged and deteriorated condition of the metal storm drain pipe; and

WHEREAS, Shepherd Canyon Road is one of the City's major access routes for the residents of the Oakland hillside; and

WHEREAS, recommendation for storm drainage improvements under Shepherd Canyon Road is included in the City's 2006 Storm Drainage Master Plan under the 10-year Priority Projects List; and

WHEREAS, a capital improvement project is needed to restore the existing drainage facility; and

WHEREAS, the total cost of the project is estimated at \$970,000.00 including \$146,000.00 for engineering and preparation of construction contract documents and \$824,000.00 for a construction contract; now, therefore, be it

WHEREAS, the City has filed a notice of interest with the Governor's Office of Emergency Services (OES) for assistance under Hazard Mitigation Grant Program (HMGP) DR-1731 and is expecting to receive some reimbursement for this work; and

RESOLVED: that the City Administrator, or her designee, is authorized to fund the urgent capital improvement project for the rehabilitation of deteriorated metal pipes and structures under Shepherd Canyon Road from Shelterwood Drive to Gunn Drive for a total estimated project cost of \$970,000.00 funded from the Capital Reserve Fund (5510); and be it

FURTHER RESOLVED: that \$146,000.00 shall be appropriated immediately for engineering and preparation of construction contract documents and \$824,000.00 shall be appropriated by February 2009 for a construction contract.

IN COUNCIL, OAKLAND, CALIFORNIA, _____, 2008

PASSED BY THE FOLLOWING VOTE:

AYES - BROOKS, BRUNNER, CHANG, KERNIGHAN, NADEL, QUAN, REID, and PRESIDENT DE LA FUENTE

NOES -

ABSENT -

ABSTENTION -

ATTEST: _____

LaTonda Simmons
City Clerk and Clerk of the Council
of the City of Oakland, California