



APPROVED
NOV 20 2001
OFFICE OF THE
CITY CLERK

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DEPARTMENT
OF UTILITIES

ENGINEERING
SERVICES DIVISION

CITY OF SACRAMENTO
CALIFORNIA

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October 31, 2001

City Council
Sacramento, California

Honorable Members in Session:

**SUBJECT: UPDATE ON THE COMPREHENSIVE FLOOD MANAGEMENT PLAN AND
REPETITIVE LOSS STRUCTURES**

LOCATION AND COUNCIL DISTRICT: City-wide (all districts).

RECOMMENDATION:

Staff recommends City Council adopt the resolution which approves the attached Repetitive Loss Report and authorizes the City Manager to submit the report to the Federal Emergency Management Agency (FEMA) in compliance with the National Flood Insurance Program (NFIP).

CONTACT PERSON: Gary Reents, Engineering Services Manager, 264-1433
David L. Brent, Principal Engineer, 264-1420

FOR COUNCIL MEETING OF: November 20, 2001

SUMMARY

The City participates in the NFIP Community Rating System (CRS), which provides a discount for flood insurance premiums for properties within the City. To maintain the City's current CRS classification and the insurance discounts, a report on the City's progress to reduce flooding of structures listed on FEMA's "Repetitive Loss Structure List" must be submitted to FEMA. The attached report fulfills this commitment. In addition, this staff report provides information on the update status of the Comprehensive Flood Management Plan.



CITY OF SACRAMENTO
DEPARTMENT
OF UTILITIES

Making a Difference in Your Neighborhood

City Council
October 31, 2001

Update on the Comprehensive Flood Management Plan and Repetitive Loss Structures

COMMITTEE/COMMISSION

None.

BACKGROUND INFORMATION

Under the Community Rating System, the City takes on several floodplain management procedures that earn credits for flood insurance reduction for properties within the City. As a Class 6 community under the CRS program, properties within the City qualify for insurance discounts from ten to twenty percent. One of the programs that must be implemented as part of the CRS is a program to address repetitive loss structures.

In the City of Sacramento, there are 40 structures identified on FEMA's repetitive loss list. (see attached map) A repetitive loss structure is defined by FEMA as follows:

For purposes of the Community Rating System, a property for which two or more National Flood Insurance Program losses of at least \$1,000 each have been paid within any 10-year rolling period since 1978.

In all of these repetitive loss cases the cause of flooding has been the result of local drainage, not out of bank flooding from a creek or river. As required by the CRS, the Department of Utilities has identified the cause of flooding and is in the process of mitigating the situation. Mitigation efforts vary depending on the location and cause of flooding. The attached table summarizes the repetitive loss structures and mitigation efforts.

By way of this council report, staff would like to notify the City Council that the Comprehensive Flood Management Plan adopted by City Council in February 1996 will be updated to reflect new FEMA requirements. Upon completion, the update will be presented to City Council for approval. It is anticipated to be complete in April 2002.

ENVIRONMENTAL DETERMINATION

This report is presented for informational purposes only and is not subject to environmental review, under the California Environmental Quality Act, as no project or activity is being approved.

City Council
October 31, 2001
Update on the Comprehensive Flood Management Plan and Repetitive Loss Structures

FINANCIAL CONSIDERATION

This report is presented for informational purposes only and does not have any direct financial impact.

POLICY CONSIDERATIONS

This report is consistent with the National Flood Insurance Program and past City Council actions regarding the Comprehensive Flood Management Plan.

ESBD CONSIDERATIONS:

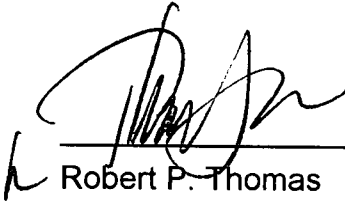
ESBD considerations are not applicable to this item as this report is presented for informational purposes only.

Respectfully Submitted By:



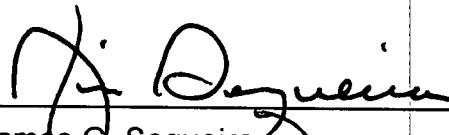
Gary A. Reents
Engineering Services Manager

RECOMMENDATION APPROVED:



Robert P. Thomas
City Manager

APPROVED:



James G. Sequeira
Director of Utilities

REPETITIVE LOSS REPORT

In the City of Sacramento, there are 40 structures listed on FEMA's National Flood Insurance Program (NFIP) repetitive loss lists (see attached map). A repetitive loss structure as defined by FEMA is as follow:

For purposes of the Community Rating System, a property for which two or more National Flood Insurance Program losses of at least \$1,000 each have been paid within any 10-year rolling period since 1978.

Most of the structures on the repetitive loss list were built many years ago prior to to the current FEMA and City regulations and these structures are scattered in the City (see Repetitive Loss Locations Map). In all of these repetitive loss cases, the cause of the flooding have been from a result of local drainage problems not out of bank flooding from a creek or river. Two structures were added to FEMA's 2001 Repetitive Loss List due to reported flooding in 2000. Eight of the structures listed are in flood zone X (outside of a special flood hazard area) and 27 are within the A99 floodplain (potential flooding from the American River). Five of the structures are in the flood zones AE, and AO:

- One residential structure on Rio Linda Boulevard adjacent to the Dry Creek Levee is within the Dry Creek floodplain zoned AE.
- One office building on Garden Highway on the water side of the levee is within the Sacramento River floodplain zoned AE.
- One residential structure is within the Morrison Creek floodplain zoned AE.
- Two residential structure is within the Union House Creek floodplain zoned AO.

The Department has investigated and provided the following in an effort to reduce flooding:

- Constructed drainage ditches
- Reconstructed street drain inlets
- Constructed drainage basins
- Enlarged pump stations
- Reconstructed and enlarged drainage mains

The City was granted a Housing and Urban Development (HUD) Disaster Recovery Initiative (DRI) Grant for elevating repetitive loss residential structures damaged in the 1997 flood. Twenty applications were mailed out and subsequent personal contact was made with each property owner. Four property owners applied for the grant. Two of the

applicants qualified under HUD's low to moderate income criteria. These two applicants are currently elevating their homes with the HUD grant. Elevation of these two structures should be completed by the end of November. Currently a third applicant is trying to qualify under the grant for a single family residential rental based upon the HUD's definition of providing housing for a low to moderate income family.

Currently there are three drainage basin master studies being conducted to reduce flooding in the area of four of the repetitive loss structures.

2001 NFIP REPETITIVE LOSSES FOR CITY OF SACRAMENTO

Loc. No.	Address	Dates of Losses	No. of Losses	Flood Zone	Investigation of Flooding	Drainage Improvements Provided to Reduce Flooding
1	5425 Rio Linda Blvd,	01/10/95 01/22/97	2	AE	Property in low lying area. Structure constructed below street grade.	Drainage ditch constructed on property to divert drainage away from structure. See Note 1
2	407 Berthoud Street	01/13/93 01/09/95	2	X	Higher adjacent lot was draining onto subject property.	Backyard ditch provided to divert drainage away from structure. Older street drain inlets replaced with current larger standard drain inlets.
3	331 Berthoud Street	01/13/93 01/10/95	2	X	Higher adjacent drain pi <i>2.2</i>	Drainage ditch was constructed on adjacent lot to divert drainage to Norwood Avenue. Older street drain inlets replaced with current larger standard drain inlets.
4	3427 Norwood Ave.	01/10/95 01/22/97 02/02/98	3	X	Prop... area with an un... drainage conveyance system.	Nuevo Park Detention Basin was constructed to reduce flooding in the area.
5	1450 Oak Nob Way	01/05/97 02/04/98	2	X	Flooding from adjacent higher property in the rear.	See Note 1
6	729 Las Palmas Avenue	01/09/95 01/26/97	2	A99	Property in low lying area with an undersized drainage conveyance system.	Richardson Village Park Detention Basin was constructed to reduce the flooding in the area. See Note 1

Legend

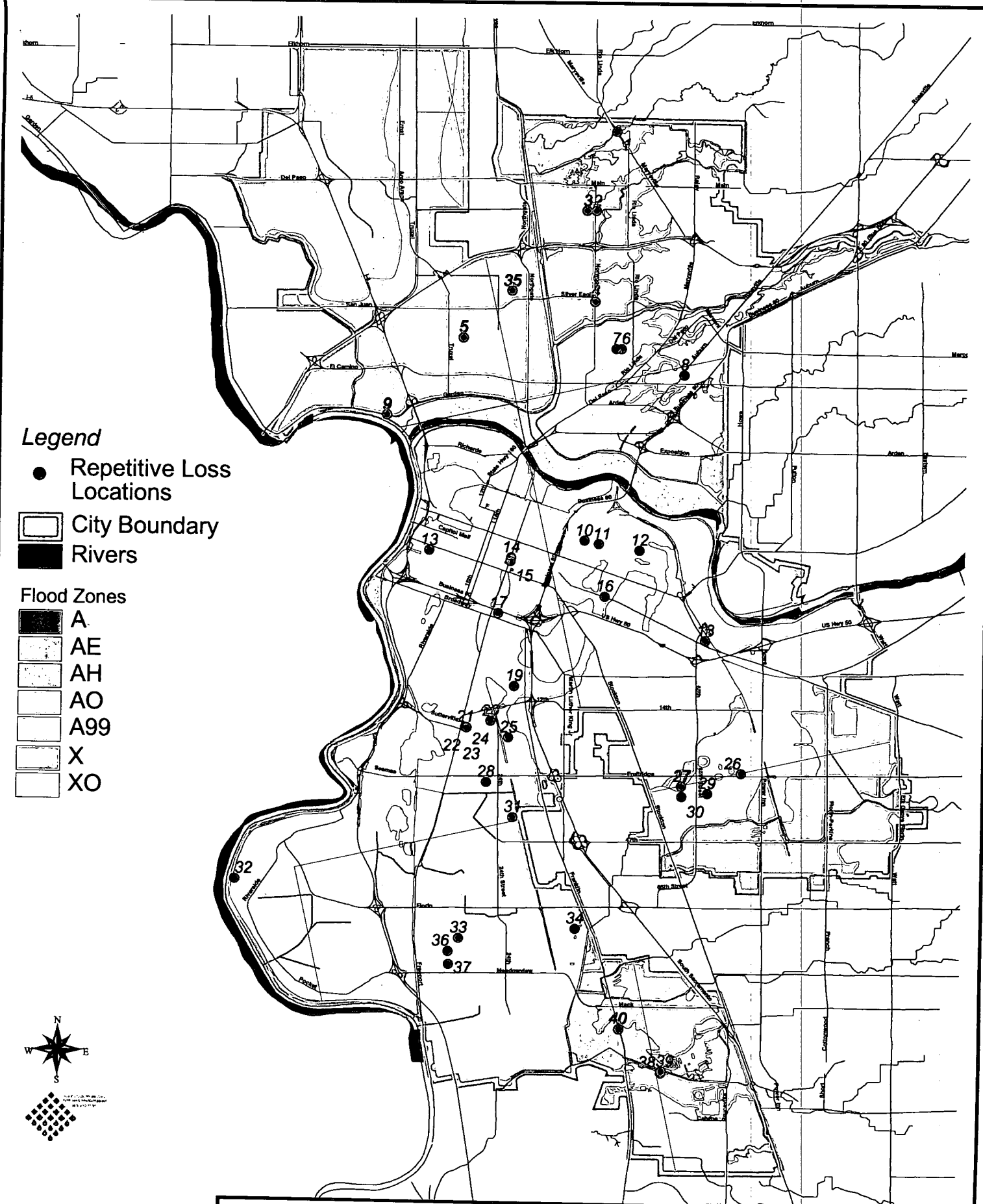
- Repetitive Loss Locations
- City Boundary
- ▬ Rivers

Flood Zones

- A
- ▨ AE
- ▨ AH
- AO
- A99
- X
- XO



**REPETITIVE LOSS LOCATIONS
03/23/2001**



COUNCIL AGENDA MATERIAL

MTG. DATE 11/20/01 ITEM NO. 2.2
FROM: CITY CLERK'S OFFICE

2001 NFIP REPETITIVE LOSSES FOR CITY OF SACRAMENTO

Loc. No.	Address	Dates of Losses	No. of Losses	Flood Zone	Investigation of Flooding	Drainage Improvements Provided to Reduce Flooding
1	5425 Rio Linda Blvd,	01/10/95 01/22/97	2	AE	Property in low lying area. Structure constructed below street grade.	Drainage ditch constructed on property to divert drainage away from structure. See Note 1
2	407 Berthoud Street	01/13/93 01/09/95	2	X	Higher adjacent lot was draining onto subject property.	Backyard ditch provided to divert drainage away from structure. Older street drain inlets replaced with current larger standard drain inlets.
3	331 Berthoud Street	01/13/93 01/10/95	2	X	Higher adjacent lot was draining onto subject property.	Drainage ditch was constructed on adjacent lot to divert drainage to Norwood Avenue. Older street drain inlets replaced with current larger standard drain inlets.
4	3427 Norwood Ave.	01/10/95 01/22/97 02/02/98	3	X	Property in low lying area with an undersized drainage conveyance system.	Nuevo Park Detention Basin was constructed to reduce flooding in the area.
5	1450 Oak Nob Way	01/05/97 02/04/98	2	X	Flooding from adjacent higher property in the rear.	See Note 1
6	729 Las Palmas Avenue	01/09/95 01/26/97	2	A99	Property in low lying area with an undersized drainage conveyance system.	Richardson Village Park Detention Basin was constructed to reduce the flooding in the area. See Note 1

Loc. No.	Address	Dates of Losses	No. of Losses	Flood Zone	Investigation of Flooding	Drainage Improvements Provided to Reduce Flooding
7	661 Las Palmas Avenue	01/13/93 01/20/93 01/09/95 01/22/97 02/06/98 01/24/00	6	A99	Property in low lying area with an undersized drainage conveyance system.	Richardson Village Park Detention Basin was constructed to reduce the flooding in the area. See Note 1
8	1524-1526 Fianza Ave.	01/04/82 01/13/83	2	X	Property in low lying area with drainage system of road side ditches.	
9	1331 Garden Hwy.	01/09/95 01/01/97	2	AE	Office building constructed on the water side of the Sacramento River levee. Flooding due to failure of floodproofing system of the building.	
10	3300 Park Way	01/09/95 01/25/97	2	A99	Property located in the Combined Sewer System with an undersized drainage conveyance system.	See Note 1
11	544 36 th Street	01/09/95 01/22/97	2	A99	Property located in the Combined Sewer System. Flooding caused by clogged storm drains and street flooding in the area.	Older street drain inlet in front of property replaced with current larger standard drain inlet. See Note 1
12	411 45 th Street	04/08/95 02/04/98	2	A99	Property in low lying area of Basin 10 with an undersized drainage conveyance system.	Basin 10 Drainage Master Plan completed. Currently determining projects to reduce flooding in the area.

Loc. No.	Address	Dates of Losses	No. of Losses	Flood Zone	Investigation of Flooding	Drainage Improvements Provided to Reduce Flooding
13	512-530 Q Street	03/02/95 01/25/97	2	A99	Property in low lying area of Basin 52 with an undersized drainage conveyance system.	Basin 52 improvements include reconstruction and increasing the storm drainage mains to 54-inches in the area to be completed in 2002.
14	1330 21 st Street	01/10/95 01/26/97	2	A99	Property located in the Combined Sewer System with an undersized drainage conveyance system.	Combined sewer main in the area was increased from a 12" to a 24" main. See Note 1
15	2115 N Street	01/10/95 01/25/97	2	A99	Property located in the Combined Sewer System with an undersized drainage conveyance system.	Combined sewer main in the area was increased from a 12" to a 24" main. See Note 1
16	4100 Folsom Blvd.	01/04/82 01/15/90	2	A99	Property located in the Combined Sewer System with an undersized drainage conveyance system.	41 st Street & Folsom Bl. Drainage Imp. Project under design and construction to begin in 2002.
17	2222 X Street	12/12/95 01/22/97	2	A99	Basement flooding.	See Note 1
18	6661 Elvas Avenue	02/18/86 06/04/93 01/22/97	3	X	Property in low lying area with an undersized drainage conveyance system. Industrial site with no on-site drainage system.	Sump 31 is currently being enlarged and a new force main was constructed to the American River.
19	3311 E. Curtis Drive	01/10/95 01/26/97	2	A99	Basement flooding. Flooding caused by clogged storm drains and street flooding in the area.	Older street drain inlet in front of property replaced with current larger standard drain inlet. See Note 1

Loc. No.	Address	Dates of Losses	No. of Losses	Flood Zone	Investigation of Flooding	Drainage Improvements Provided to Reduce Flooding
20	4220 Custis Avenue	01/10/95 01/26/97	2	A99	Lot lower than adjacent lots. Drainage from adjacent lots was going into garage which was converted to living quarters.	Garage portion of structure will be raised with HUD Grant funds. Elevation of structure expected to completed in November 2001. See Note 1.
21	2030 20 th Avenue	01/10/95 02/07/96 01/22/97	3	A99	These three addresses are individual structures within the same apartment complex . Property in low lying area with an undersized drainage conveyance system.	Drainage study is being conducted to determine a location for a drainage basin to reduce the flooding in the area.
22	2036 20 th Avenue	01/10/95 01/22/97	2			
23	2040 20 th Avenue	01/10/95 01/22/97	2			
24	2044 20 th Avenue	01/13/93 01/09/95 02/22/96 01/22/97	4		Property in low lying area with an undersized drainage conveyance system.	Drainage study is being conducted to determine a location for a drainage basin to reduce the flooding in the area.
25	2648A 21 st Avenue	01/10/95 03/11/95	2	A99	According to owner structure has never flooded. Owner has installed a sump pump in a low area in the backyard to drain-storm-water-away-from residence in the rear.	

Loc. No.	Address	Dates of Losses	No. of Losses	Flood Zone	Investigation of Flooding	Drainage Improvements Provided to Reduce Flooding
26	5551 Priscilla Lane	01/10/95 12/21/96	2	A99	Property in low lying area with an undersized drainage conveyance system.	Drainage basin is currently being studied to develop a plan to reduce flooding in the area.
27	5743 Ortega Street	01/01/97 02/22/98	2	X	Drainage from adjacent lots was going into garage which was converted to living quarters.	Garage portion of structure will be raised with HUD Grant funds. Elevation of structure expected to be completed in November 2001. Drainage basin is currently being studied to develop a plan to reduce flooding in the area.
28	5641 Johns Drive	01/13/93 01/11/95 01/03/97	3	A99	Flooding caused by clogged storm drains and street flooding in the area.	Older street drain inlets in the area replaced with current larger standard drain inlets. See Note 1
29	6711 37 th Avenue	01/10/95 01/22/97	2	A99	Flooding from adjacent vacant lot behind property.	Drainage basin is currently being studied to develop a plan to reduce flooding in the area. See Note 1
30	5856 Ortega Street	01/14/95 01/25/97	2	A99	Flooding caused by clogged storm drains and street flooding in the area.	Older street drain inlets in the area replaced with current larger standard drain inlets. See Note 1
31	6091-6093 Ventura St.	01/10/95 01/22/97	2	A99	Flooding caused by clogged storm drains and street flooding in the area.	Older street drain inlets in the area replaced with current larger standard drain inlets. See Note 1

Loc. No.	Address	Dates of Losses	No. of Losses	Flood Zone	Investigation of Flooding	Drainage Improvements Provided to Reduce Flooding
32	6850 Arabella Way	03/23/95 01/04/97	2	A99	Property adjacent to the Sac. River levee. Flooding of house from levee seepage.	See Note 1
33	1956 68 th Avenue	01/10/95 02/26/00	2	A99	Source of flooding is unknown. Property is on the highest portion of the street. No reported flooding of adjacent properties which are lower.	Drainage basin is currently being studied to develop a plan to reduce flooding in the area.
34	7282 Alcedo Circle	01/10/95 01/27/97	2	A99	Source of flooding is unknown. Lowest floor of the structure appears to be higher than adjacent structures that have not flooded.	See Note 1.
35	3503 Binghamton Dr.	01/10/95 01/24/00	2	X	Water seeps through landscaping into sunken living room	
36	7430 Henrietta Drive	01/12/93 01/10/95 01/25/97	3	A99	Property in low lying area with drainage system of road side ditches.	Road side ditches and driveway culverts were reconstructed to improve the drainage in the area. Currently working with property owner to qualify for HUD funding to elevate structure.

Loc. No.	Address	Dates of Losses	No. of Losses	Flood Zone	Investigation of Flooding	Drainage Improvements Provided to Reduce Flooding
37	7543 Henrietta Drive	01/10/95 01/22/97	2	A99	Property in low lying area with drainage system of road side ditches.	Road side ditches and driveway culverts were reconstructed to improve the drainage in the area. See Note 1.
38	8133 La Almendra Way	01/10/95 01/27/97	2	AO	Property at the end of a cul de sac in a low lying area.	Sump 201 was constructed specifically to pump the drainage from this area. Community Bowl Detention Basin currently under construction to provide additional flood protection to the area. See Note 1.
39	8137 La Almendra Way	01/10/95 01/22/97	2	AO	Property at the end of a cul de sac in a low lying area.	Sump 201 was constructed specifically to pump the drainage from this area. Community Bowl Detention Basin currently under construction to provide additional flood protection to the area. See Note 1.
40	4575 Manacor Dr.	12/28/96 01/28/97	2	AE	Property in low lying area with an undersized drainage conveyance system.	Bufferlands Detention Basin was constructed to reduce flooding in the area. See Note 1.

Note:

1. Notices were sent to single family residential repetitive loss structures damaged in the 1997 flood to apply for funds to elevate the structures.

APPROVED

NOV 20 2001

OFFICE OF THE
CITY CLERK

RESOLUTION NO. 2001-754

ADOPTED BY THE SACRAMENTO CITY COUNCIL

ON DATE OF _____

RESOLUTION AUTHORIZING THE CITY COUNCIL TO APPROVE THE ATTACHED REPETITIVE LOSS REPORT AND AUTHORIZING THE CITY MANAGER TO SUBMIT THE REPORT TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY

BE IT RESOLVED BY THE SACRAMENTO CITY COUNCIL THAT:

WHEREAS, the City participates in the National Flood Insurance Program Community Rating System, which provides a discount for flood insurance premiums for properties within the City; and

WHEREAS, in the City there are 40 structures identified on the Federal Emergency Management Agency Repetitive Loss Structures List; and

WHEREAS, the City is required to submit a Repetitive Loss Report to the Federal Emergency Management Agency in compliance to the National Flood Insurance Program Community Rating System.

NOW, THEREFORE, BE IT RESOLVED BY THE SACRAMENTO CITY COUNCIL:

The City Council approve the attached Repetitive Loss Report and authorize the City Manager to submit the report to the Federal Emergency Management Agency in compliance with the National Flood Insurance Program.

MAYOR

ATTEST:

CITY CLERK

FOR CITY CLERK USE ONLY

RESOLUTION NO.: _____

DATE ADOPTED: _____