

FLOOD CONTROL CONSTRUCTION FUND

FY 2010 projects include the completion of several storm drain projects including 67th Avenue between Peoria and the Arizona Canal Diversion Channel (ACDC), Northern Avenue between 47th and 63rd Avenues, and Camelback Road between 59th and 75th Avenues that is part of the Bethany Home Outfall Channel Project. Due to the decline in Glendale's secondary assessed valuation, additional funding planned for more flood control work related to the Bethany Home Outfall Channel Project was deferred to FY 2014 to allow for the construction of the new City Court Building to continue.



Project Name: Bethany Home Outfall Channel
Funding Source: G.O. Bond
Fund #: 2180
Project #: 79000



FY 2010 - 2019 Capital Improvement Plan Fund and Project Summary

Fund: Flood Control Bonds (2180)

Category: 20%

	<u>FY 09-10:</u>	<u>FY 10-11:</u>	<u>FY 11-12:</u>	<u>FY 12-13:</u>	<u>FY 13-14:</u>	<u>FY 14-19:</u>
Beginning Balance	\$15,908,525	\$1,687,593	\$1,541,013	\$1,399,736	\$1,256,658	\$1,272,681
Total Beginning Balance:	15,908,525	1,687,593	1,541,013	1,399,736	1,256,658	1,272,681
Revenue						
Bond Proceeds^	14,075,000	0	0	0	0	26,517,000
Intergovernmental Revenue	0	0	0	0	0	2,670,000
Investment Income	116,132	16,876	23,115	20,996	18,850	95,451
Total Revenue:	14,191,132	16,876	23,115	20,996	18,850	29,282,451
Operating Expenses						
Advisor Fees	3,213	2,531	3,467	3,149	2,827	14,318
Total Operating Expenses:	3,213	2,531	3,467	3,149	2,827	14,318
Project Expenses						
	<u>Carrvoer</u>	<u>New Funding</u>				
Existing Assets						
<i>Improvement of Existing Assets</i>						
79004 Local Drainage Problems	578,947	0	0	0	0	1,177,976
79005 Collector Drains	559,535	0	0	0	0	4,189,724
79006 AZDES Permit	426,700	160,925	160,925	160,925	160,925	804,625
<i>Replacement of Existing Assets</i>						
79010 Storm Water Master Plan	57,303	0	0	0	0	843,750
Sub-Total - Existing Assets	1,622,485	160,925	160,925	160,925	160,925	7,016,075
New Assets						
79000 Bethany Home Outfall Channel	2,959,890	3,411,261	0	0	0	0
79001 Bethany Home 58th - 51st	0	0	0	0	0	5,014,601
79002 67th Ave/Peoria to ACDC	1,598,458	0	0	0	0	0
79007 Greenway Drain - 59th-71st	0	0	0	0	0	3,684,359
79008 Northern Ave. SD- 47th to 63rd	8,617,332	10,038,500	0	0	0	0
T2900 Bethany Home, 79th-67th (SD)	0	0	0	0	0	4,465,825
T2910 Bethany Home, 67th-58th (SD)	0	0	0	0	0	5,672,375
T2940 Greenway Drain - 51st-59th	0	0	0	0	0	3,684,074
Sub-Total - New Assets	13,175,680	13,449,761	0	0	0	22,521,234
Total Project Expenses:	14,798,165	13,610,686	160,925	160,925	160,925	29,537,309
Total FY 09-10 Funding:	28,408,851					
Estimated Ending Balance:	\$1,687,593	\$1,541,013	\$1,399,736	\$1,256,658	\$1,272,681	\$1,003,505

*New Project

^Will require additional voter authorization in last 5 years of the plan.

FY 2010-2019 Capital Improvement Plan Capital Project Detail

Fund: Flood Control Bonds (2180)

Category: 20%

Project: 79004 - Local Drainage Problems (I)

Funding Source: General Obligation Bonds

Project Description: Construct localized storm drain improvements to mitigate drainage or flooding problems. This is an ongoing program.

<u>Capital Costs:</u>	2010	2011	2012	2013	2014	2015-2019
Construction	\$0	\$0	\$0	\$0	\$0	\$1,099,284
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$23,715
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$43,983
Arts	\$0	\$0	\$0	\$0	\$0	\$10,994
Carryover	\$578,947	\$0	\$0	\$0	\$0	\$0
TOTAL	\$578,947	\$0	\$0	\$0	\$0	\$1,177,976

Operating Description: Storm drain pipe requires little or no maintenance and in most cases will reduce existing maintenance because storm water does not pond in the street or other public facility.

Project: 79005 - Collector Drains (I)

Funding Source: General Obligation Bonds

Project Description: Ongoing program to construct storm drain improvements on collector streets to mitigate drainage and flooding problems.

<u>Capital Costs:</u>	2010	2011	2012	2013	2014	2015-2019
Construction	\$0	\$0	\$0	\$0	\$0	\$4,000,000
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$51,724
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$98,000
Arts	\$0	\$0	\$0	\$0	\$0	\$40,000
Carryover	\$559,535	\$0	\$0	\$0	\$0	\$0
TOTAL	\$559,535	\$0	\$0	\$0	\$0	\$4,189,724

Operating Description: Storm drain pipe requires little or no maintenance and in most cases will reduce existing maintenance because storm water does not pond in the street or other public facility.

Project: 79006 - AZDES Permit (I)

Funding Source: General Obligation Bonds

Project Description: In 1999, the City of Glendale obtained a permit under the Clean Water Act for the National Pollutant Discharge Elimination System. The permit requires monitoring of storm water flows and preparation of annual reports. This funding will insure that the city can continue to meet the requirements of the permit and avoid fines up to \$25,000 per day.

<u>Capital Costs:</u>	2010	2011	2012	2013	2014	2015-2019
Finance Charges	\$3,925	\$3,925	\$3,925	\$3,925	\$0	\$19,625
Miscellaneous/Other	\$157,000	\$157,000	\$157,000	\$157,000	\$0	\$785,000
Carryover	\$426,700	\$0	\$0	\$0	\$0	\$0
TOTAL	\$587,625	\$160,925	\$160,925	\$160,925	\$0	\$804,625

Operating Description: O and M of storm water monitoring will be done by the United States Geological Survey agency through an IGA requiring annual payments.

* New Project

N=New Asset, R=Replacement of Existing Asset, I=Improvement of Existing Asset

FY 2010-2019 Capital Improvement Plan Capital Project Detail

Fund: Flood Control Bonds (2180)

Category: 20%

Project: 79010 - Storm Water Master Plan (R)

Funding Source: General Obligation Bonds

Project Description: Develop a citywide master plan to determine the adequacy of existing facilities and prioritize new facilities. Project will include detailed aerial mapping and hydrologic modeling to determine storm water flows and volumes.

Capital Costs:	2010	2011	2012	2013	2014	2015-2019
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$18,750
Miscellaneous/Other	\$0	\$0	\$0	\$0	\$0	\$825,000
Carryover	\$57,303	\$0	\$0	\$0	\$0	\$0
TOTAL	\$57,303	\$0	\$0	\$0	\$0	\$843,750

Operating Description: No additional O and M is needed at this time.

Project: 79000 - Bethany Home Outfall Channel (N)

Funding Source: General Obligation Bonds

Project Description: This is the last phase of the Bethany Home Outfall Channel Project with the Flood Control District of Maricopa County. The portions of the outfall channel between the Loop 101 and 83rd Avenue are complete and the storm drain piping between 83rd and 75th avenues along the Grand Canal are complete. This phase will complete the storm drain in Camelback Road from 75th to 59th avenues.

Capital Costs:	2010	2011	2012	2013	2014	2015-2019
Construction	\$3,215,059	\$0	\$0	\$0	\$0	\$0
Finance Charges	\$85,282	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$78,769	\$0	\$0	\$0	\$0	\$0
Arts	\$32,151	\$0	\$0	\$0	\$0	\$0
Carryover	\$2,959,890	\$0	\$0	\$0	\$0	\$0
TOTAL	\$6,371,151	\$0	\$0	\$0	\$0	\$0

Operating Description: Storm drain pipe require little to no maintenance and in most cases will reduce overall maintenance requirements due to storm water not forming a pond in streets and other public facilities.

Project: 79001 - Bethany Home 58th - 51st (N)

Funding Source: General Obligation Bonds

Project Description: Construct a storm drain along Bethany Home Road between from 58th Avenue to 51st Avenue including mainline pipe, catch basins and appurtenances.

Capital Costs:	2010	2011	2012	2013	2014	2015-2019
Design	\$0	\$0	\$0	\$0	\$0	\$300,000
Construction	\$0	\$0	\$0	\$0	\$0	\$4,000,000
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$112,551
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$79,550
Arts	\$0	\$0	\$0	\$0	\$0	\$40,000
Contingency	\$0	\$0	\$0	\$0	\$0	\$400,000
Miscellaneous/Other	\$0	\$0	\$0	\$0	\$0	\$82,500
TOTAL	\$0	\$0	\$0	\$0	\$0	\$5,014,601

Operating Description: O and M will not occur until project is actually constructed in the future. Storm drain pipe requires little or no maintenance and in most cases will reduce existing maintenance because storm water does not pond in the street or other public facility.

* New Project

N=New Asset, R=Replacement of Existing Asset, I=Improvement of Existing Asset

FY 2010-2019 Capital Improvement Plan Capital Project Detail

Fund: Flood Control Bonds (2180)

Category: 20%

Project: 79002 - 67th Ave/Peoria to ACDC (N)

Funding Source: General Obligation Bonds

Project Description: Construct a storm drain on 67th Avenue from Peoria to the Arizona Canal Diversion Channel to include mainline piping, catch basins and appurtenances. Through an IGA, 50% of the storm drain cost will be shared with the Flood Control District of Maricopa County.

<u>Capital Costs:</u>	2010	2011	2012	2013	2014	2015-2019
Carryover	\$1,598,458	\$0	\$0	\$0	\$0	\$0
TOTAL	\$1,598,458	\$0	\$0	\$0	\$0	\$0

Operating Description: Storm drain pipe requires little or no maintenance and in most cases will reduce existing maintenance because storm water does not pond in the street or other public facility.

Project: 79007 - Greenway Drain - 59th-71st (N)

Funding Source: General Obligation Bonds

Project Description: Construct a storm drain in Greenway Road from 59th to 71st Avenue. Project includes catch basins, and appurtenances. This project will intercept storm water flows east of 67th Avenue.

<u>Capital Costs:</u>	2010	2011	2012	2013	2014	2015-2019
Design	\$0	\$0	\$0	\$0	\$0	\$500,000
Construction	\$0	\$0	\$0	\$0	\$0	\$2,640,000
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$89,869
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$58,090
Arts	\$0	\$0	\$0	\$0	\$0	\$26,400
Contingency	\$0	\$0	\$0	\$0	\$0	\$370,000
TOTAL	\$0	\$0	\$0	\$0	\$0	\$3,684,359

Operating Description: No additional O and M is needed at this time.

Project: 79008 - Northern Ave. SD- 47th to 63rd (N)

Funding Source: General Obligation Bonds

Project Description: Construct a storm drain on Northern Avenue from the basin at 63rd Avenue to approximately 47th Avenue, and a raw 24" water line from 51st Avenue to 63rd Avenue.

<u>Capital Costs:</u>	2010	2011	2012	2013	2014	2015-2019
Construction	\$8,800,000	\$0	\$0	\$0	\$0	\$0
Finance Charges	\$130,500	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$120,000	\$0	\$0	\$0	\$0	\$0
Arts	\$88,000	\$0	\$0	\$0	\$0	\$0
Contingency	\$900,000	\$0	\$0	\$0	\$0	\$0
Carryover	\$8,617,332	\$0	\$0	\$0	\$0	\$0
TOTAL	\$18,655,832	\$0	\$0	\$0	\$0	\$0

Operating Description: Storm drain pipe requires little or no maintenance and in most cases will reduce existing maintenance because storm water does not pond in the street or other public facility.

* New Project

N=New Asset, R=Replacement of Existing Asset, I=Improvement of Existing Asset

FY 2010-2019 Capital Improvement Plan Capital Project Detail

Fund: Flood Control Bonds (2180)

Category: 20%

Project: T2900 - Bethany Home, 79th-67th (SD) (N)

Funding Source: General Obligation Bonds

Project Description:

Construct storm drain pipe, inlets, and other appurtenances in Bethany Home Road from 79th Avenue to 67th Avenue.

Capital Costs:

	2010	2011	2012	2013	2014	2015-2019
Design	\$0	\$0	\$0	\$0	\$0	\$550,000
Construction	\$0	\$0	\$0	\$0	\$0	\$3,500,000
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$40,500
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$74,925
Arts	\$0	\$0	\$0	\$0	\$0	\$35,000
Contingency	\$0	\$0	\$0	\$0	\$0	\$265,400
TOTAL	\$0	\$0	\$0	\$0	\$0	\$4,465,825

Operating Description:

Storm drain pipe requires little or no maintenance and in most cases will reduce existing maintenance because storm water will not pond in the street or other public facility.

Project: T2910 - Bethany Home, 67th-58th (SD) (N)

Funding Source: General Obligation Bonds

Project Description:

Construct a storm drain in Bethany Home Road from 67th Avenue to 58th Avenue. Construction costs to be shared with Maricopa County Flood Control District (\$3,500,000). Project will include storm drain pipe, catch basins and appurtenances.

Capital Costs:

	2010	2011	2012	2013	2014	2015-2019
Design	\$0	\$0	\$0	\$0	\$0	\$840,000
Construction	\$0	\$0	\$0	\$0	\$0	\$4,500,000
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$92,500
Arts	\$0	\$0	\$0	\$0	\$0	\$45,000
Contingency	\$0	\$0	\$0	\$0	\$0	\$84,000
Miscellaneous/Other	\$0	\$0	\$0	\$0	\$0	\$110,875
TOTAL	\$0	\$0	\$0	\$0	\$0	\$5,672,375

Operating Description:

Storm drain pipe requires little or no maintenance and in most cases will reduce existing maintenance because storm water does not pond in the street or other public facility.

* New Project

N=New Asset, R=Replacement of Existing Asset, I=Improvement of Existing Asset

FY 2010-2019 Capital Improvement Plan Capital Project Detail

Fund: Flood Control Bonds (2180)

Category: 20%

Project: T2940 - Greenway Drain - 51st-59th (N)

Funding Source:

General Obligation Bonds

Project Description:

Construct a storm drain in Greenway Road between 51st and 59th Avenues to include mainline piping, catch basins, and appurtenances .

Capital Costs:

	2010	2011	2012	2013	2014	2015-2019
Design	\$0	\$0	\$0	\$0	\$0	\$500,000
Construction	\$0	\$0	\$0	\$0	\$0	\$2,630,000
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$89,869
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$57,905
Arts	\$0	\$0	\$0	\$0	\$0	\$26,300
Contingency	\$0	\$0	\$0	\$0	\$0	\$380,000
TOTAL	\$0	\$0	\$0	\$0	\$0	\$3,684,074

Operating Description:

Storm drain pipe requires little or no maintenance and in most cases will reduce existing maintenance because storm water does not pond in the street or other public facility.

* New Project

N=New Asset, R=Replacement of Existing Asset, I=Improvement of Existing Asset