

FLOOD CONTROL

FY 2009 projects include the completion of several storm drains along 59th Avenue, 67th Avenue, and Northern Avenue between 45th and 63rd Avenues. FY 2009 also will see the design and construction of storm drainage channel improvements in the Bethany Home Road alignment between 67th and 75th Avenues.



Project Name: 59th Brown to Olive
Funding Source: G.O. Bond
Fund #: 2180
Project #: 79003



FY 2009 - 2018 Capital Improvement Plan Fund and Project Summary

Fund: Flood Control Construction (2180)

Category: 20%

		<u>FY 08-09:</u>	<u>FY 09-10:</u>	<u>FY 10-11:</u>	<u>FY 11-12:</u>	<u>FY 12-13:</u>	<u>FY 14-18:</u>
Beginning Balance		\$12,544,987	\$1,925,384	\$1,982,478	\$2,050,284	\$1,967,783	\$1,890,489
Total Beginning Balance:		12,544,987	1,925,384	1,982,478	2,050,284	1,967,783	1,890,489
Revenue							
Bond Proceeds		11,328,000	4,872,000	2,674,000	0	0	34,234,000
Investment Income		0	67,388	79,299	92,263	98,389	472,622
Total Revenue:		11,328,000	4,939,388	2,753,299	92,263	98,389	34,706,622
Operating Expenses							
Advisor Fees		3,213	10,108	11,895	13,839	14,758	70,893
Total Operating Expenses:		3,213	10,108	11,895	13,839	14,758	70,893
Project Expenses							
	<u>Carrvoer</u>	<u>New Funding</u>					
79000 Bethany Home Outfall Channel	481,479	2,931,451	4,711,261	2,512,673	0	0	0
79001 Bethany Home 58th - 51st	0	0	0	0	0	0	5,014,601
79002 67th Ave/Peoria to ACDC	3,055,863	2,508,730	0	0	0	0	0
79003 59th Ave. Brown to Olive	834,935	1,330,157	0	0	0	0	0
79004 Local Drainage Problems	598,947	0	0	0	0	0	1,177,976
79005 Collector Drains	612,194	0	0	0	0	0	4,189,724
79006 AZDES Permit	457,299	160,925	160,925	160,925	160,925	160,925	804,625
79007 Greenway Drain - 53rd to 71st	0	0	0	0	0	0	3,684,359
79008 Northern Drain - 45th to 63rd	4,468,118	4,396,625	0	0	0	0	0
79010 Storm Water Master Plan	107,667	0	0	0	0	0	843,750
T2900 Bethany Home, 75th-67th (SD)	0	0	0	0	0	0	8,561,197
T2910 Bethany Home, 67th-58th (SD)	0	0	0	0	0	0	7,373,259
T2940 Greenway Drain 59th-53rd	0	0	0	0	0	0	3,684,074
Total Project Expenses:	10,616,502	11,327,888	4,872,186	2,673,598	160,925	160,925	35,333,565
Total FY 08-09 Funding:		21,944,390					
Estimated Ending Balance:		\$1,925,384	\$1,982,478	\$2,050,284	\$1,967,783	\$1,890,489	\$1,192,653

* New Project

FY 2009-2018 Capital Improvement Plan Capital Project Detail

Fund: Flood Control Construction (2180)

Category: 20%

Project: 79000 - Bethany Home Outfall Channel

Funding Source: General Obligation Bonds

Project Description:

Design and construct drainage channel improvements in the Bethany Home Road Alignment - 75th to 67th Avenues. The portions of the outfall channel between Loop 101 and 75th Avenue are complete and between 75th and 67th Avenues will be completed in 2008.

Capital Costs:

	Carryover	2009	2010	2011	2012	2013	2014-2018
Construction	\$407,908	\$2,800,000	\$4,500,000	\$2,400,000	\$0	\$0	\$0
Finance Charges	\$38,456	\$70,000	\$112,500	\$60,000	\$0	\$0	\$0
Engineering Charges	\$19,115	\$33,451	\$53,761	\$28,673	\$0	\$0	\$0
Arts	\$16,000	\$28,000	\$45,000	\$24,000	\$0	\$0	\$0
TOTAL	\$481,479	\$2,931,451	\$4,711,261	\$2,512,673	\$0	\$0	\$0

Operating Description:

No additional O and M needed at this time.

Project: 79001 - Bethany Home 58th - 51st

Funding Source: General Obligation Bonds

Project Description:

Construct a storm drain along Bethany Home Road between 51st to 58th Avenues including mainline pipe, catch basins and appurtenances.

Capital Costs:

	Carryover	2009	2010	2011	2012	2013	2014-2018
Design	\$0	\$0	\$0	\$0	\$0	\$0	\$300,000
Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$4,000,000
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$112,551
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$79,550
Arts	\$0	\$0	\$0	\$0	\$0	\$0	\$40,000
Contingency	\$0	\$0	\$0	\$0	\$0	\$0	\$400,000
Miscellaneous/Other	\$0	\$0	\$0	\$0	\$0	\$0	\$82,500
TOTAL	\$0	\$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.

Project: 79002 - 67th Ave/Peoria to ACDC

Funding Source: General Obligation Bonds

Project Description:

Construct a storm drain on 67th Avenue - Peoria to ACDC to include mainline piping, catch basins and appurtenances. 50% of the storm drain cost will be shared with the Flood Control District through an Inter-governmental agreement.

Capital Costs:

	Carryover	2009	2010	2011	2012	2013	2014-2018
Design	\$103,574	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$2,789,181	\$2,382,500	\$0	\$0	\$0	\$0	\$0
Finance Charges	\$77,158	\$30,405	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$57,750	\$72,000	\$0	\$0	\$0	\$0	\$0
Arts	\$28,200	\$23,825	\$0	\$0	\$0	\$0	\$0
TOTAL	\$3,055,863	\$2,508,730	\$0	\$0	\$0	\$0	\$0

Operating Description:

No additional O and M needed at this time.

* New Project

FY 2009-2018 Capital Improvement Plan Capital Project Detail

Fund: Flood Control Construction (2180)

Category: 20%

Project: 79003 - 59th Ave. Brown to Olive

Funding Source:

General Obligation Bonds

Project Description: Construct a storm drain on 59th Avenue from Olive to Brown.

Capital Costs:	Carryover	2009	2010	2011	2012	2013	2014-2018
Design	\$67,797	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$694,082	\$1,250,000	\$0	\$0	\$0	\$0	\$0
Finance Charges	\$21,006	\$19,657	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$43,000	\$48,000	\$0	\$0	\$0	\$0	\$0
Arts	\$9,050	\$12,500	\$0	\$0	\$0	\$0	\$0
TOTAL	\$834,935	\$1,330,157	\$0	\$0	\$0	\$0	\$0

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

Project: 79004 - Local Drainage Problems

Funding Source:

General Obligation Bonds

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

Capital Costs:	Carryover	2009	2010	2011	2012	2013	2014-2018
Construction	\$582,022	\$0	\$0	\$0	\$0	\$0	\$1,099,284
Finance Charges	\$1,865	\$0	\$0	\$0	\$0	\$0	\$23,715
Engineering Charges	\$12,048	\$0	\$0	\$0	\$0	\$0	\$43,983
Arts	\$3,012	\$0	\$0	\$0	\$0	\$0	\$10,994
TOTAL	\$598,947	\$0	\$0	\$0	\$0	\$0	\$1,177,976

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

Project: 79005 - Collector Drains

Funding Source:

General Obligation Bonds

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

Capital Costs:	Carryover	2009	2010	2011	2012	2013	2014-2018
Design	\$97,284	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$461,080	\$0	\$0	\$0	\$0	\$0	\$4,000,000
Finance Charges	\$24,330	\$0	\$0	\$0	\$0	\$0	\$51,724
Engineering Charges	\$24,500	\$0	\$0	\$0	\$0	\$0	\$98,000
Arts	\$5,000	\$0	\$0	\$0	\$0	\$0	\$40,000
TOTAL	\$612,194	\$0	\$0	\$0	\$0	\$0	\$4,189,724

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

* New Project

FY 2009-2018 Capital Improvement Plan Capital Project Detail

Fund: Flood Control Construction (2180)

Category: 20%

Project: 79006 - AZDES Permit

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 prepare annual reports. Funding will support the physical inventory of the City's storm drain system and generate an electronic map of the storm drain system.

Capital Costs:

	Carryover	2009	2010	2011	2012	2013	2014-2018
Design	\$35,489	\$0	\$0	\$0	\$0	\$0	\$0
Finance Charges	\$9,398	\$3,925	\$3,925	\$3,925	\$3,925	\$3,925	\$19,625
Engineering Charges	\$9,312	\$0	\$0	\$0	\$0	\$0	\$0
Arts	\$147	\$0	\$0	\$0	\$0	\$0	\$0
Equipment	\$245,793	\$0	\$0	\$0	\$0	\$0	\$0
Miscellaneous/Other	\$157,160	\$157,000	\$157,000	\$157,000	\$157,000	\$157,000	\$785,000
TOTAL	\$457,299	\$160,925	\$160,925	\$160,925	\$160,925	\$160,925	\$804,625

Operating Description:

No additional O and M needed at this time.

Project: 79007 - Greenway Drain - 53rd to 71st

Funding Source: General Obligation Bonds

Project Description:

Construct a storm drain in Greenway Road from 67th to 61st Avenue to include mainline piping, catch basins, and appurtenances. This project will intercept storm water flows east of 67th Avenue.

Capital Costs:

	Carryover	2009	2010	2011	2012	2013	2014-2018
Design	\$0	\$0	\$0	\$0	\$0	\$0	\$500,000
Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$2,640,000
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$89,869
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$58,090
Arts	\$0	\$0	\$0	\$0	\$0	\$0	\$26,400
Contingency	\$0	\$0	\$0	\$0	\$0	\$0	\$370,000
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$3,684,359

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.

FY 2009-2018 Capital Improvement Plan Capital Project Detail

Fund: Flood Control Construction (2180)

Category: 20%

Project: 79008 - Northern Drain - 45th to 63rd

Funding Source:

General Obligation Bonds

Project Description: Construct a storm drain on Northern Avenue from the basin at 63rd to approximately 45th Avenue.

Capital Costs:	Carryover	2009	2010	2011	2012	2013	2014-2018
Design	\$3,494	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$4,255,649	\$4,150,000	\$0	\$0	\$0	\$0	\$0
Finance Charges	\$0	\$103,450	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$42,725	\$101,675	\$0	\$0	\$0	\$0	\$0
Arts	\$44,000	\$41,500	\$0	\$0	\$0	\$0	\$0
Miscellaneous/Other	\$122,250	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$4,468,118	\$4,396,625	\$0	\$0	\$0	\$0	\$0

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

Project: 79010 - Storm Water Master Plan

Funding Source:

General Obligation Bonds

Project Description: City-wide storm water master plan to determine adequacy of existing facilities and prioritize new facilities. Project will include detailed aerial mapping and hydrologic modeling to determine storm water flow and volume.

Capital Costs:	Carryover	2009	2010	2011	2012	2013	2014-2018
Design	\$83,167	\$0	\$0	\$0	\$0	\$0	\$0
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$18,750
Engineering Charges	\$24,500	\$0	\$0	\$0	\$0	\$0	\$0
Miscellaneous/Other	\$0	\$0	\$0	\$0	\$0	\$0	\$825,000
TOTAL	\$107,667	\$0	\$0	\$0	\$0	\$0	\$843,750

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

Project: T2900 - Bethany Home, 75th-67th (SD)

Funding Source:

General Obligation Bonds

Project Description: Construct storm drain pipe, inlets and other appurtenances in Bethany Home Road from 75th Avenue to 67th Avenue.

Capital Costs:	Carryover	2009	2010	2011	2012	2013	2014-2018
Design	\$0	\$0	\$0	\$0	\$0	\$0	\$450,000
Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$6,970,000
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$208,997
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$92,500
Arts	\$0	\$0	\$0	\$0	\$0	\$0	\$69,700
Contingency	\$0	\$0	\$0	\$0	\$0	\$0	\$770,000
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$8,561,197

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

FY 2009-2018 Capital Improvement Plan Capital Project Detail

Fund: Flood Control Construction (2180)

Category: 20%

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

Funding Source: General Obligation Bonds

Project Description: Construct a storm drain in Bethany Home Road from 67th 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:	Carryover	2009	2010	2011	2012	2013	2014-2018
Design	\$0	\$0	\$0	\$0	\$0	\$0	\$835,000
Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$5,490,000
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$179,985
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$92,499
Arts	\$0	\$0	\$0	\$0	\$0	\$0	\$54,900
Contingency	\$0	\$0	\$0	\$0	\$0	\$0	\$610,000
Miscellaneous/Other	\$0	\$0	\$0	\$0	\$0	\$0	\$110,875
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$7,373,259

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: T2940 - Greenway Drain 59th-53rd

Funding Source: General Obligation Bonds

Project Description: Construct a storm drain in Greenway Road between 59th and 53rd Avenues to include mainline piping, catch basins and appurtenances.

Capital Costs:	Carryover	2009	2010	2011	2012	2013	2014-2018
Design	\$0	\$0	\$0	\$0	\$0	\$0	\$500,000
Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$2,630,000
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$89,869
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$57,905
Arts	\$0	\$0	\$0	\$0	\$0	\$0	\$26,300
Contingency	\$0	\$0	\$0	\$0	\$0	\$0	\$380,000
TOTAL	\$0	\$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.