

AMAFCA

Albuquerque Metropolitan Arroyo Flood Control Authority

PROJECT SCHEDULE



2022



PREFACE

Today, more than 675,000 people live and work in the Albuquerque urban area. AMAFCA will continue to invest in flood control so future generations will have the maximum level of protection from the effects of flooding through fiscally responsible flood control actions and multi-use facilities that complement and enhance the beauty of our City.

-Bruce Thomson, Chair, AMAFCA Board of Directors 2021

ACKNOWLEDGMENTS

This project schedule was developed with the assistance of the City of Albuquerque, Bernalillo County, New Mexico Department of Transportation, University of New Mexico, Middle Rio Grande Conservancy District, and the Village of Los Ranchos de Albuquerque.

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BACKGROUND

The Albuquerque Metropolitan Arroyo Flood Control Authority (AMAFCA) was created in 1963 by the New Mexico State Legislature to protect life and property **through construction and maintenance of major flood control and stormwater quality facilities** in the greater Albuquerque metropolitan area. AMAFCA's jurisdiction includes most of the developed area of Bernalillo County, not including areas of the East Mountains and the Rio Puerco basin. **AMAFCA is governed by a five-member Board of Directors, elected to six-year terms. The five AMAFCA Districts are shown on page 13.**

Since its creation, AMAFCA has invested approximately **\$260,000,000 in infrastructure that includes 21 flood control dams, 56 smaller flood-control ponds, 76 miles of arroyo channels, 14 miles of underground conduit structures, and 10 miles of dikes and diversion structures.** AMAFCA stormwater quality and debris-removal facilities annually collect an average of 50,000 cubic yards of sediment and 1,500 cubic yards of trash from stormwater runoff before entering the Rio Grande. In addition to building infrastructure, outreach and education is also an important part of AMAFCA's mission to protect life, property, and the environment. AMAFCA is an active member of the Ditch and Water Safety Task Force, the Levee Task Force, the Compliance Monitoring Cooperative, and the Stormwater Quality Team.

AMAFCA owns or has easements on 4,000 acres of **property used for flood control, much of which is made available for joint uses such as bike trails, recreational fields, equestrian areas, hang glider and hot-air balloon landing areas, open space, wildlife habitat, and golf courses.**

AMAFCA 2022 PROJECT SCHEDULE

The 2022 Project Schedule covers a six-year planning horizon, from 2022 through 2027 and identifies approximately \$86,000,000 in potential AMAFCA funding for flood control, drainage management and stormwater quality projects within AMAFCA's jurisdiction. Project funding is best leveraged with other public and private funds to maximize the value to the community. The 2022 Project Schedule includes construction of the North Domingo Baca Dam Expansion, the Ladera Dam 5 Diversion, Zuni-Penn Pond, and Hubbell Dam Expansion. A continuation of master-planning efforts, such as the Gibson/San Mateo Floodplain Restudy and the Karsten Area Restudy, as well as new hydraulic studies like the Agency and Area Wide FEMA Floodplain Removal and the La Cueva Arroyo Hydraulic Study are included in this year's project schedule.

Although the Albuquerque metropolitan area only receives approximately 8.4 inches of rain per year, the resulting runoff carries large amounts of sediment, trash, and debris with it. AMAFCA continues to be the standard-bearer with the installation of facilities that enhance the quality of stormwater runoff prior to entering the Rio Grande. Retrofits to existing facilities identified in the Project Schedule include Las Ventanas Dam, Barelas Pump Station Outlet, Upper Bear Arroyo Tributary, South Diversion Channel Outlet, North Diversion Channel and other AMAFCA facilities.

This schedule is dependent on voter approval of \$25,000,000 Bond Authorizations at the general elections to be held in 2022, 2024, and 2026.





San Antonio Arroyo

The AMAFCA funding in this project schedule can be categorized as follows:

Drainage Deficiencies in existing neighborhoods	31%	\$35.4 M
Rehabilitation of Existing Flood Control Facilities	15%	\$17.5 M
Master Planned Drainage Facilities	42%	\$48.1 M
Storm Water Quality Projects (retrofits and new projects)	12%	\$13.1 M

AMAFCA-managed projects (lead) account for nearly 90% of the projects listed. The Project Schedule includes projects to be managed by other agencies with AMAFCA funding:

LEAD AGENCY	PERCENT OF TOTAL	TOTAL PROJECTS
AMAFCA	89%	58
City of Albuquerque	6%	4
Bernalillo County	5%	3

BOND ELECTIONS

AMAFCA issues general obligation bonds (paid for by property taxes) for the purpose of extending, modifying, reconstructing, **repairing and otherwise improving AMAFCA's flood control system**. AMAFCA's bond elections currently request \$25,000,000 authorizations. The bond elections are held every two years, with the next two scheduled for November 2022 and 2024. All bond elections have passed since the inception of AMAFCA in 1963 with an average pass rate of more than two to one. It is AMAFCA's intention to maintain a stable mill levy to meet the debt service requirements. AMAFCA has held its debt service mill levy of 0.675 steady since 1999. AMAFCA utilizes a 10-year maturity for bonds and currently does not intend on extending it for future issuances. AMAFCA currently has a legal debt limit of \$80,000,000. Using current bond amortization schedules and projected schedules for future debt, we do not anticipate exceeding \$75,000,000 of debt.

The following corresponding charts show AMAFCA's mill levy history for the last ten years for residential, non-residential, and total tax rates as well as the history of total assessed valuation and growth/(decline) from the previous year.

All projects in this schedule will be designed and built using private sector services including appraisers, surveyors, consulting engineers, and construction contractors.

GREEN BONDS

Should the AMAFCA Board of Directors pursue selling of Green or Climate Bonds (bonds specifically earmarked for projects that have positive environmental benefits), the 2022 Project Schedule identifies projects that may be eligible for funding through a Green or Climate Bond. These projects are identified with a green leaf symbol and were deemed eligible following the criteria below.



WATER MONITORING

- Stormwater warning systems
- Floodwater warning systems
- Dam failure warning systems
- Remote water quality/quantity warning systems

WATER STORAGE

- Stormwater management systems such as infiltration ponds, aquifer storage, and groundwater recharge systems

FLOOD DEFENSE

- Construction or upgrade of flood defense infrastructure
- Installation or upgrade of flood monitoring and warning systems

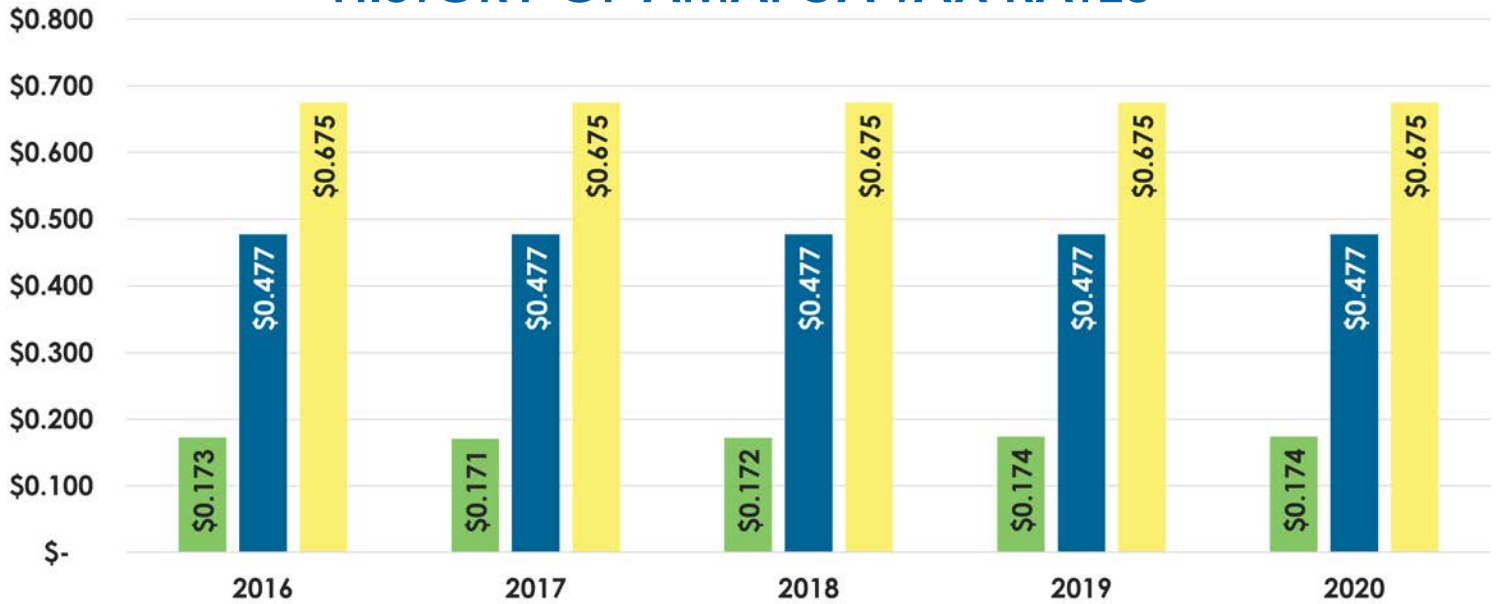
HISTORY OF AMAFCA TAX RATES

Tax Year	Operational Tax Rates			Total Tax Rates	
	Residential	Non-Residential	Debt Service	Residential	Non-Residential
2011	0.165	0.477	0.675	0.84	1.152
2012	0.17	0.477	0.675	0.845	1.152
2013	0.176	0.477	0.675	0.851	1.152
2014	0.177	0.477	0.675	0.852	1.152
2015	0.177	0.477	0.675	0.852	1.152
2016	0.173	0.477	0.675	0.848	1.152
2017	0.171	0.477	0.675	0.846	1.152
2018	0.172	0.477	0.675	0.847	1.152
2019	0.174	0.477	0.675	0.849	1.152
2020	0.174	0.477	0.675	0.849	1.152

-Operational mill levy is capped at 0.5 mills by legislation

-No cap on debt service mill levy

HISTORY OF AMAFCA TAX RATES



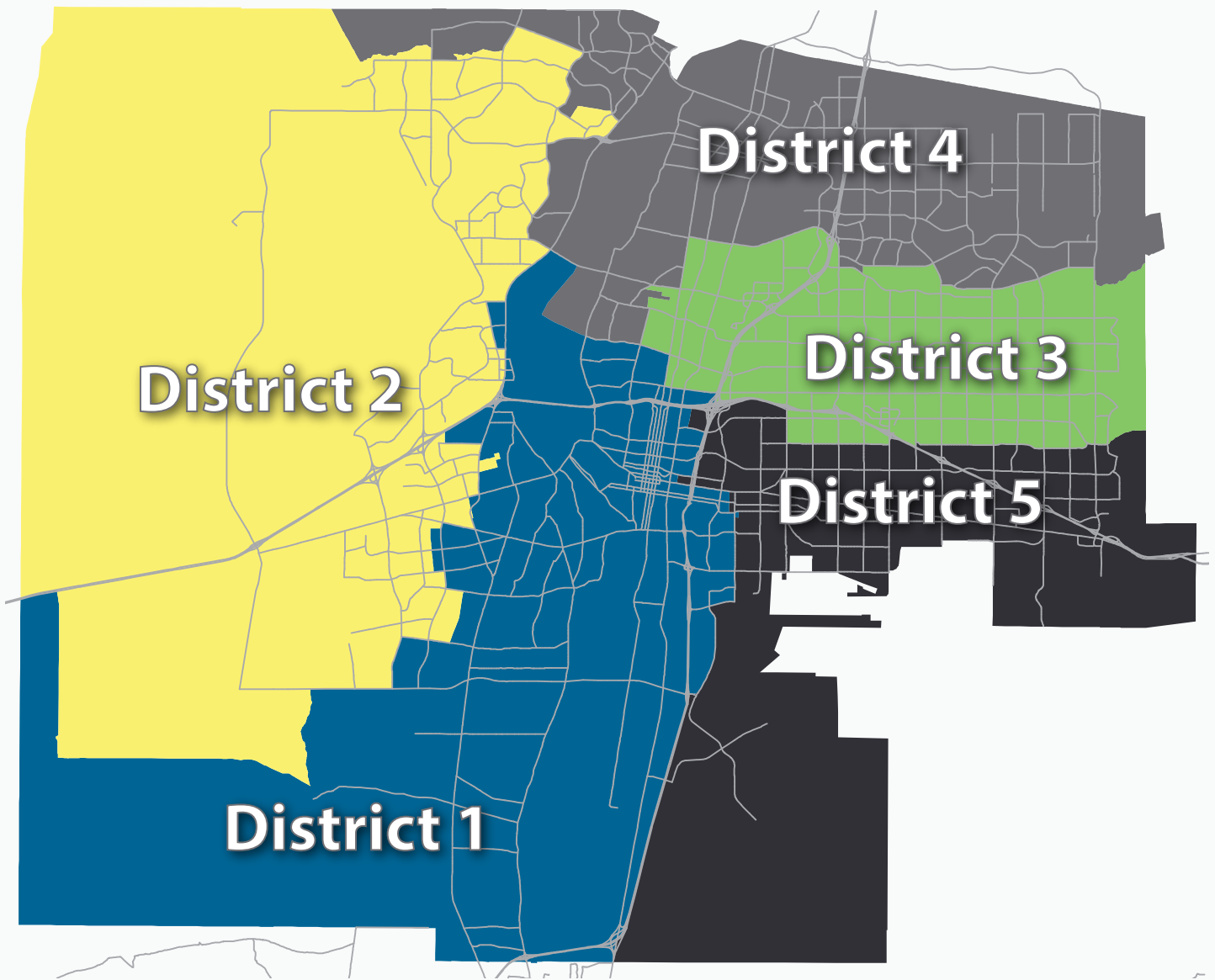
AMAFCA ASSESSED VALUATION



HISTORICAL ASSESSED VALUATIONS

Tax Year	Assessed Valuation	% Change From Previous Year
2011	\$13,861,735,225	0.4%
2012	\$13,798,575,503	-0.5%
2013	\$13,905,653,445	0.8%
2014	\$14,208,679,327	2.2%
2015	\$14,457,994,384	1.8%
2016	\$14,923,448,814	3.2%
2017	\$15,438,030,033	3.4%
2018	\$15,936,868,302	3.2%
2019	\$16,484,113,078	3.4%
2020	\$16,955,169,608	2.9%

DISTRICT MAP



AMAFCA BOARD OF DIRECTORS & THEIR DISTRICTS: 2021

Deborah L. Stover
Cynthia D. Borrego
Tim Eichenberg
Ronald D. Brown
Bruce M. Thomson

District 1
District 2
District 3
District 4
District 5

PROJECT SCHEDULE PROCESS

The Project Schedule identifies future planning efforts, joint funding initiatives, design, and construction projects that AMAFCA hopes to accomplish over the next six years. The projects selected for the 2022 Project Schedule were derived from an extensive review and analysis of approximately 400 different planned flood control and water quality projects within AMAFCA's jurisdiction. Each project was evaluated by assessing current and future needs and regulatory priorities. Stormwater quality projects were prioritized (as required by AMAFCA's MS4 permit) relative to other stormwater quality facilities themselves based on cost, existing BMP's within the subbasin (effectiveness), and proximity to the Rio Grande. Recommendations for project inclusion in the 2022 Project Schedule were presented to the AMAFCA Board of Directors over a series of public meetings held in the summer and fall of 2021. More than \$825,000,000 in proposed projects were vetted.

This is strictly a planning and budgeting document for use by the AMAFCA Board of Directors.

This Project Schedule utilized various criteria to establish general project priorities from a technical perspective, which may not necessarily reflect the priorities used by the Board of Directors for funding and construction of individual projects. Specific projects will be funded and scheduled by AMAFCA Board action based on evaluation of public safety needs, cost-sharing benefits, and orderly development of flood control infrastructure which addresses overall community needs and regional planning requirements.



4TH STREET AND PASEO DEL NORTE AREA DRAINAGE PROJECT

DISTRICT	
AMAFCA	4
CITY COUNCIL	N/A
COUNTY COMMISSION	4
NM SENATE	13
NM HOUSE	15

POTENTIAL AMAFCA FUNDING	
2022	\$1,750,000
2023	-
2024	-
2025	-
2026	-
2027	-

SPONSORS:



TOTAL COST: \$3,000,000



OBJECTIVES: Remove floodplain, Reduce drainage/flooding issues, Provide/increase system/facility capacity

STAKEHOLDERS: AMAFCA, MRGCD, CoE, BernCo, NMDOT, VLR

DESCRIPTION

The project includes storm drain infrastructure in 4th Street north of Paseo Del Norte and on adjacent side streets. Water is then directed to existing infrastructure in and around Paseo del Norte. The goal of the project is to reduce the extent of FEMA floodplain and alleviate local drainage issues in the area.

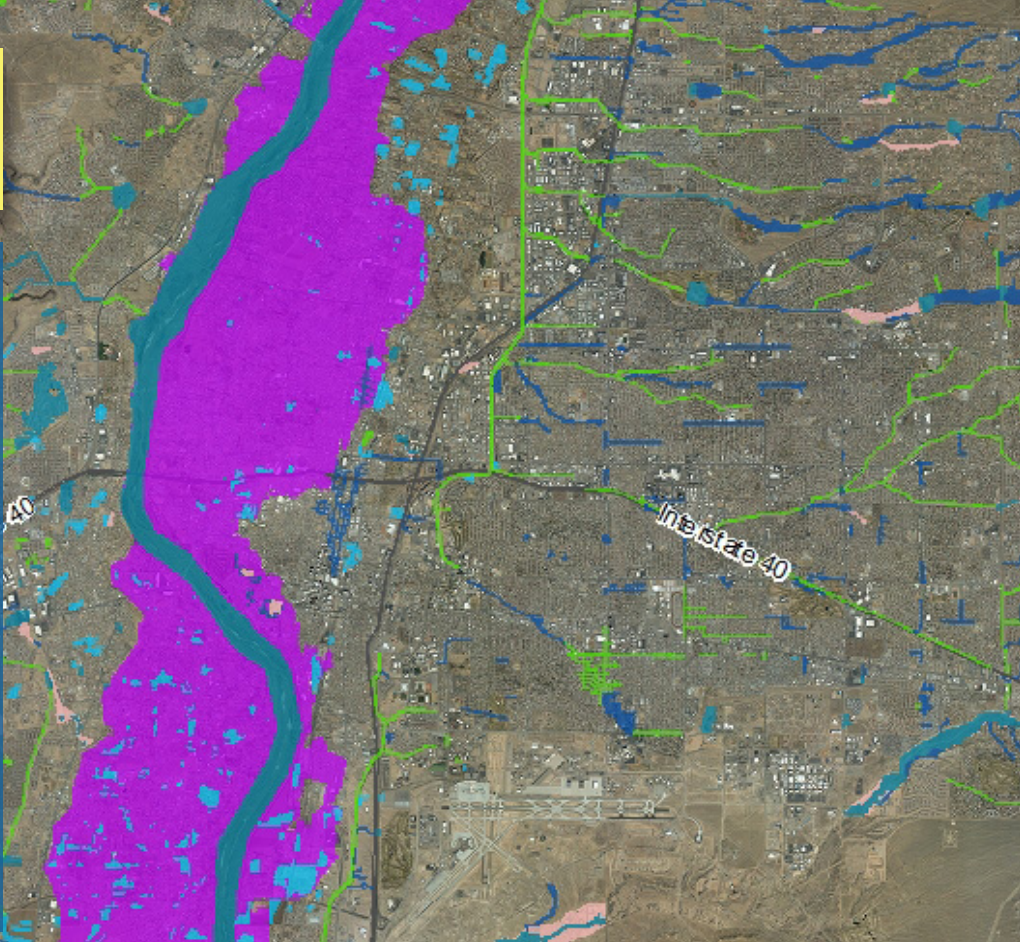
AGENCY AND AREA WIDE FEMA FLOODPLAIN REMOVAL

DISTRICT

AMAFCA	1-5
CITY COUNCIL	1-9
COUNTY COMMISSION	1-5
NM SENATE	9-21, 23, 26, 29
NM HOUSE	10-31, 68, 69

POTENTIAL AMAFCA FUNDING

2022	\$50,000
2023	\$50,000
2024	\$50,000
2025	\$50,000
2026	\$50,000
2027	\$50,000



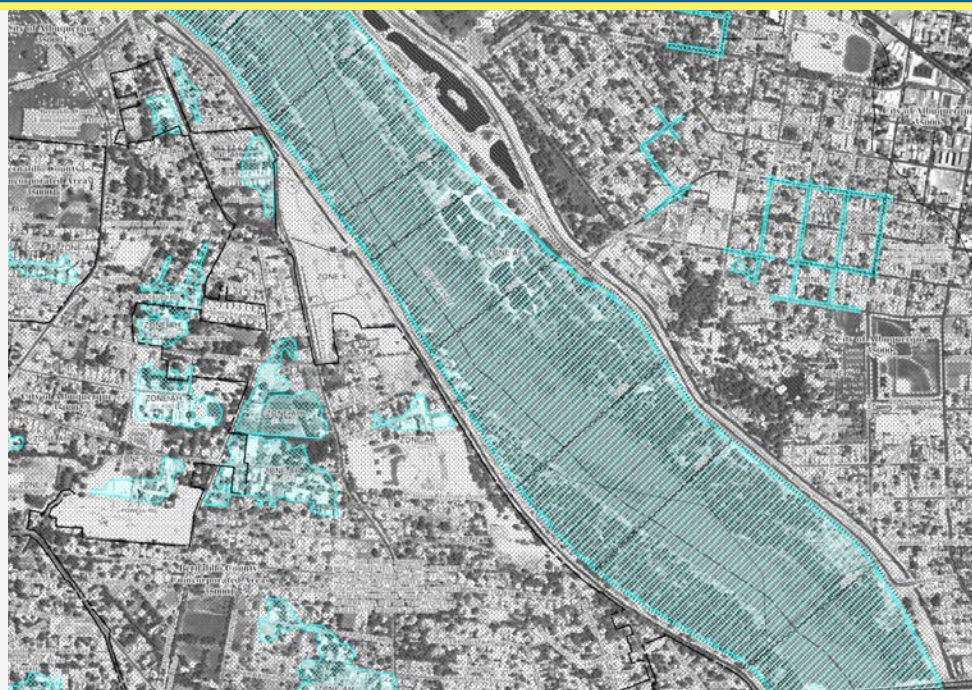
TOTAL COST: \$1,000,000

SPONSORS:



DESCRIPTION

In an effort to better utilize interagency resources, the Agency and Area Wide FEMA Floodplain Removal project would provide the framework for multiple agencies to address errors and remap FEMA defined floodplains within the AMAFCA jurisdiction. The project would include engineering and survey work required to complete this process. It is currently estimated that 10 to 15 percent of currently mapped floodplains within the AMAFCA jurisdiction could be subject to revision.



OBJECTIVES: *Remove floodplain*

STAKEHOLDERS: BernCo, AMAFCA, CoA



ALAMEDA DRAIN WATER QUALITY STRUCTURES

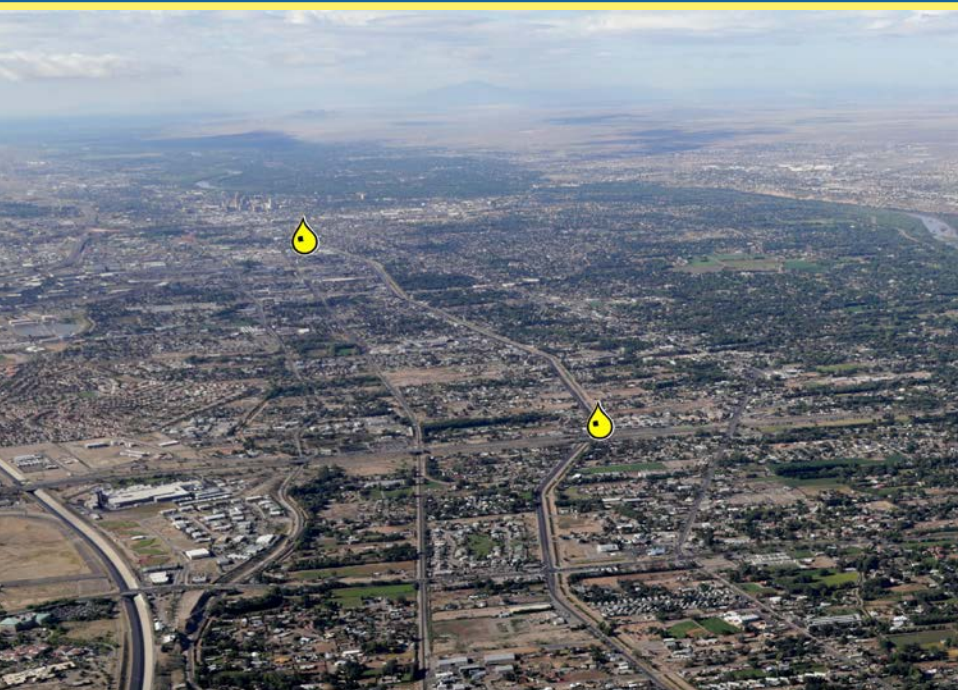
DISTRICT	
AMAFCA	3, 4
CITY COUNCIL	2
COUNTY COMMISSION	1, 4
NM SENATE	13
NM HOUSE	11, 15

POTENTIAL AMAFCA FUNDING	
2022	-
2023	-
2024	\$200,000
2025	\$200,000
2026	-
2027	-

SPONSORS:



TOTAL COST: \$800,000



OBJECTIVES: *Provide/enhance facility maintenance, Provide/enhance stormwater quality*

STAKEHOLDERS: AMAFCA, BernCo, CoA, MRGCD, VLR

DESCRIPTION

The Alameda drain is a major drainage and regional stormwater conveyance facility in the North Valley, used by many agencies. A multi-agency hydraulic analysis identified possible locations for stormwater quality enhancement projects. These structures would trap debris and provide maintenance access for both the structures and the Alameda Drain as well.

ALCALDE PUMP STATION OUTFALL- BOSQUE SWQ OUTFALL IMPROVEMENTS

DISTRICT

AMAFCA	1
CITY COUNCIL	2
COUNTY COMMISSION	2
NM SENATE	12
NM HOUSE	11, 14

POTENTIAL AMAFCA FUNDING

2022	-
2023	-
2024	-
2025	-
2026	-
2027	\$300,000



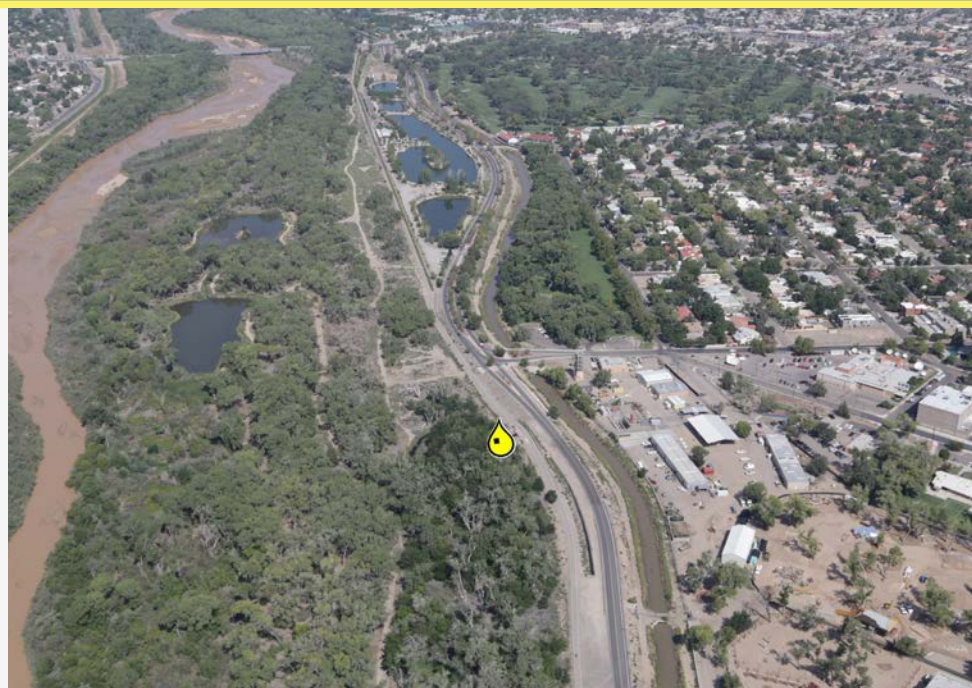
TOTAL COST: \$600,000

SPONSORS:



DESCRIPTION

This project will build stormwater quality improvements in the Bosque at the Alcalde Pump Station. The existing outfall basin will be improved to attain additional solids settling. Meandering, unlined channels from the basin will be constructed through the bosque with an outfall to the river. These improvements to the system will help to satisfy the EPA stormwater quality improvement permit requirements for the Rio Grande



OBJECTIVES: *Provide/enhance facility maintenance, Provide/enhance storm water quality*

STAKEHOLDERS: **AMFACA, CoA**



AMAFCA OFFICE IMPROVEMENTS

DISTRICT	
AMAFCA	3
CITY COUNCIL	7
COUNTY COMMISSION	3
NM SENATE	12
NM HOUSE	18

POTENTIAL AMAFCA FUNDING	
2022	\$665,000
2023	-
2024	-
2025	-
2026	-
2027	-

SPONSORS: 

TOTAL COST: \$665,000



OBJECTIVES: *Provide/enhance facility maintenance*

STAKEHOLDERS: **AMAFCA**

DESCRIPTION

The AMAFCA Office Improvements will enhance security for the building while providing additional public facilities. The project includes additional public bathrooms, enhancements to the AMAFCA Board of Directors meeting room, enhanced building security, and additional office space. The reconfigured office will allow for centralized public access and provide areas for future AMAFCA staff growth.

AMAFCA TELEMETRY

DISTRICT

AMAFCA	1 - 5
CITY COUNCIL	1 - 9
COUNTY COMMISSION	1 - 5
NM SENATE	9 - 21, 23, 26, 29
NM HOUSE	10 - 31, 68, 69

POTENTIAL AMAFCA FUNDING

2022	-
2023	-
2024	-
2025	-
2026	\$400,000
2027	-



TOTAL COST: \$400,000

SPONSORS: 

DESCRIPTION

The flood control system telemetry project will provide automated data reporting for AMAFCA facilities. The installation of automated telemetry for AMAFCA facilities will be especially beneficial in the event of inclement weather as it will enhance AMAFCA's ability to observe flood control system conditions remotely; allowing for focused observation by AMAFCA staff concerning the amount and quality of water moving through the system. The telemetry project will report details about the depth of water at the location, possible environmental reporting such as rainfall rate, select water quality parameters, and may include video reporting.



OBJECTIVES: *Provide early hazard warning, Provide/enhance facility maintenance, Provide/enhance storm water quality*

STAKEHOLDERS: **AMAFCA, EPA, CoA, MS-4 Partners, BernCo, Emergency Responders**



AMOLE ARROYO MODIFICATION

DISTRICT	
AMAFCA	1
CITY COUNCIL	N/A
COUNTY COMMISSION	2
NM SENATE	14
NM HOUSE	12

POTENTIAL AMAFCA FUNDING	
2022	\$100,000
2023	\$350,000
2024	\$500,000
2025	-
2026	-
2027	-

SPONSORS: 

TOTAL COST: \$950,000



OBJECTIVES: *Provide/increase system/facility capacity, Reduce drainage/flooding issues*

STAKEHOLDERS: AMAFCA

DESCRIPTION

A redirection of the Amole Arroyo directly into the Hubbell Channel instead of the Amole Dam will assist in the potential lack-of-capacity issues in Amole Dam. This redirection will allow for greater overall system capacity between the Amole and Hubbell Dams. The existing Amole Dam secondary spillway into the Hubbell Channel would still be retained, keeping the operation of Amole Dam consistent with current practice.

AMOLE DAM EMERGENCY ACTION PLAN

DISTRICT

AMAFCA	1
CITY COUNCIL	N/A
COUNTY COMMISSION	2
NM SENATE	14
NM HOUSE	12

POTENTIAL AMAFCA FUNDING

2022	\$50,000
2023	-
2024	-
2025	-
2026	-
2027	-



TOTAL COST: \$50,000

SPONSORS: AMAFCA

DESCRIPTION

An Emergency Action Plan (EAP) is a formal plan required by the Office of the State Engineer Bureau of Dam Safety that identifies potential emergency conditions at a dam and outlines the procedures to follow to minimize property damage and loss of life. This project will include the development and preparation of an EAP and inundation maps for the Amole Dam. The EAP will contain procedures to be followed during an emergency, such as structural problems, equipment malfunctions, or natural events such as floods or earthquakes that could approach or exceed the dam design limits. Inundation mapping will outline the evacuation boundaries for the community on a map in the event of a dam failure.



OBJECTIVES: Provide emergency planning and mapping.

STAKEHOLDERS: Emergency Responders, OSE, AMAFCA

AMOLE DAM GRAVITY OUTLET PHASE II

DISTRICT

AMAFCA	1
CITY COUNCIL	N/A
COUNTY COMMISSION	2
NM SENATE	14
NM HOUSE	12

POTENTIAL AMAFCA FUNDING

2022	-
2023	\$150,000
2024	\$521,000
2025	-
2026	-
2027	-

SPONSORS:



TOTAL COST: \$671,000

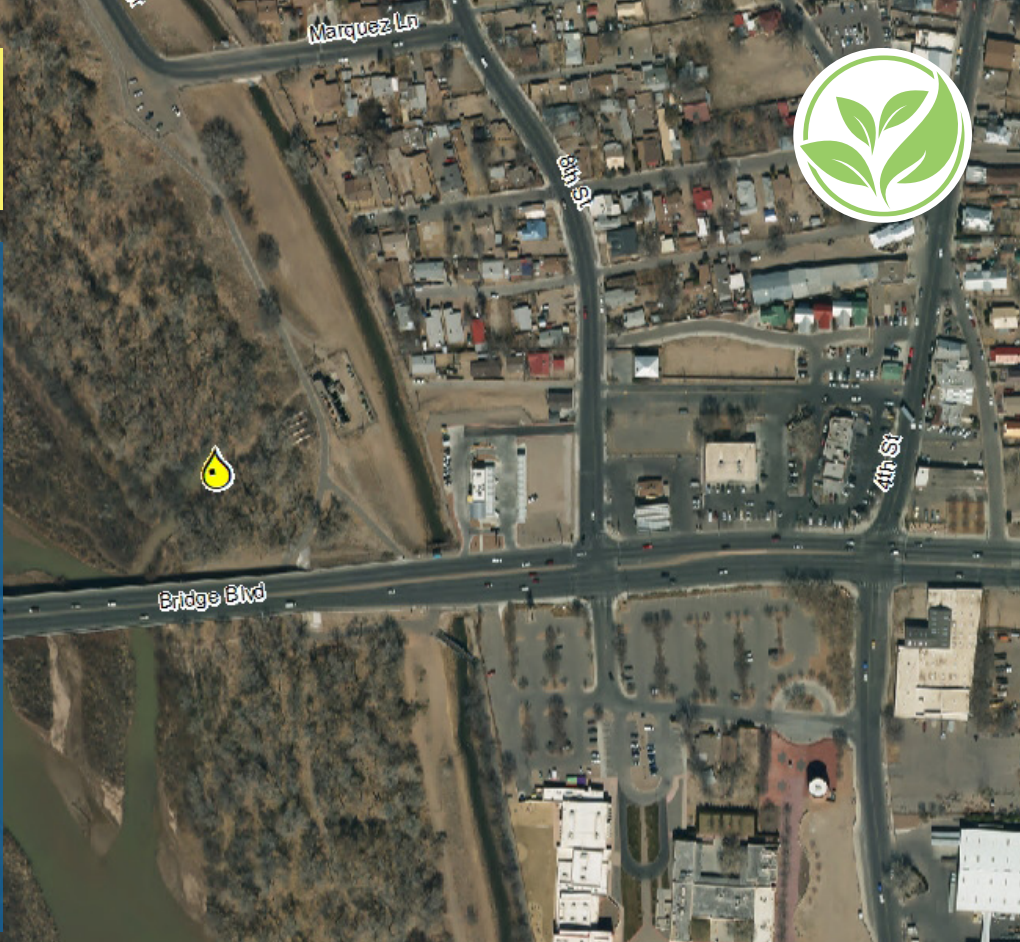
OBJECTIVES: *Provide/increase system/facility capacity, Reduce drainage/flooding issues, Remove floodplain, Provide/enhance facility maintenance*

STAKEHOLDERS: AMAFCA, MRGCD, COE, APS, BernCo

DESCRIPTION

The Amole Dam outfall pipe is currently controlled by a manually-operated gate valve that must be coordinated with the Middle Rio Grande Conservancy District to release detained stormwater into the Arenal Main Canal to avoid flooding or overtopping the canal. As part of the Corps of Engineers Southwest Valley Flood Reduction Project, this project will complete the gravity outfall from the Amole dam through Navajo Elementary School and tie into the Isleta Drain. The project will also provide Navajo Elementary School with a conduit for its stormwater and remove floodplain on the school property and surrounding neighborhood. The completion of this project will provide additional capacity in the dam for runoff from upstream development.

BARELAS PUMP STATION OUTFALL SWQ IMPROVEMENTS



DISTRICT

AMAFCA	1
CITY COUNCIL	2
COUNTY COMMISSION	2
NM SENATE	12
NM HOUSE	14

POTENTIAL AMAFCA FUNDING

2022	-
2023	-
2024	-
2025	-
2026	-
2027	\$300,000

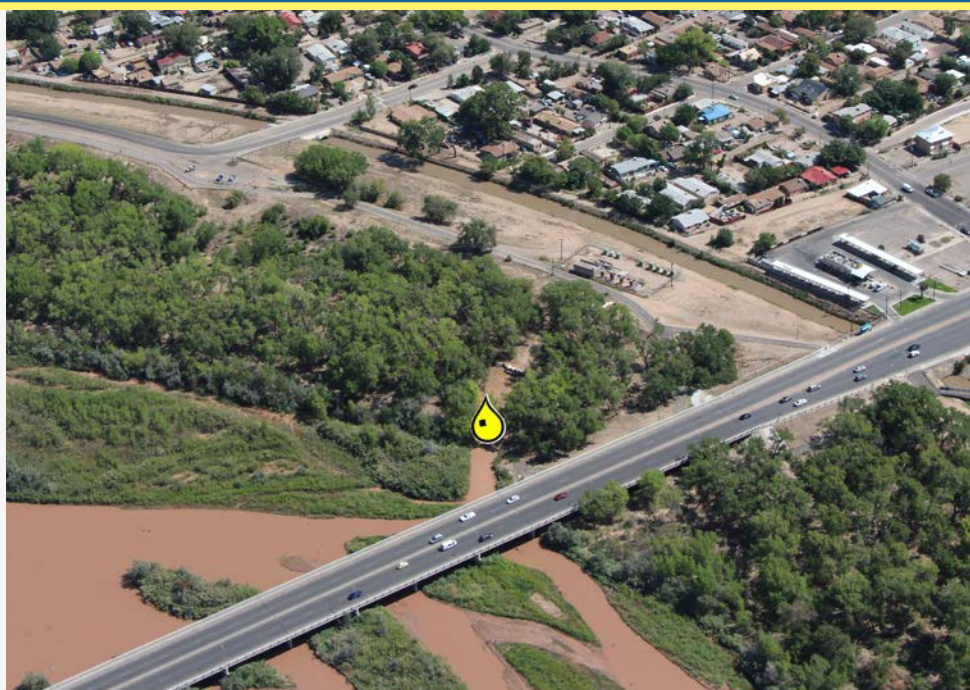
TOTAL COST: \$600,000

SPONSORS:



DESCRIPTION

Stormwater quality improvements will be made to the Barelas Pump Station at the discharge pipes in the Bosque. The improvements to the system will help to satisfy the EPA stormwater quality improvement permit requirements for the Rio Grande. This project will concentrate on making improvements in the Bosque outfall basin to attain additional floatable and solids settling. Meandering, unlined channels from the basin will be constructed through the Bosque.



OBJECTIVES: *Provide/enhance facility maintenance*
Provide/enhance storm water quality

STAKEHOLDERS: EPA, Open Space, MRGCD, COA

BORREGA DAM UPGRADE

DISTRICT

AMAFCA	1
CITY COUNCIL	N/A
COUNTY COMMISSION	2
NM SENATE	14
NM HOUSE	10

POTENTIAL AMAFCA FUNDING

2022	\$150,000
2023	\$773,000
2024	-
2025	-
2026	-
2027	-

SPONSORS:



TOTAL COST: \$923,000



OBJECTIVES: *Provide/increase system/facility capacity*

STAKEHOLDERS: AMAFCA, OSE, BernCo

DESCRIPTION

The original design of Borrega Dam allowed for an expanded dam pool by excavating the northern half of the property. No new embankment or real estate acquisition is required. The expansion of the dam will provide capacity for upstream development.

CALABACILLAS ARROYO BANK MONITORING AND ENHANCEMENT 1 – COORS TO THE RIO GRANDE

DISTRICT

AMAFCA	4
CITY COUNCIL	5
COUNTY COMMISSION	4
NM SENATE	10
NM HOUSE	23

POTENTIAL AMAFCA FUNDING

2022	-
2023	\$75,000
2024	\$75,000
2025	\$75,000
2026	-
2027	-



TOTAL COST: \$225,000

SPONSORS:



DESCRIPTION

The Calabacillas Arroyo is a flood control facility that mimics a natural channel that provides open space and recreational corridors in northwest Albuquerque. Materials such as soil cement and rip rap, have been used throughout the facility to provide bank protection and grade control. These materials offer a natural appearance and blend in with the surrounding landscape. To ensure that the system is functioning as designed, these protective treatments must be monitored and inspected for damage or degradation. This facility has been split into four reaches within the Calabacillas Arroyo. This project will monitor channel erosion, protective treatments, and channel performance along with construction enhancements and modifications where necessary in the reach from Coors Boulevard to the Rio Grande.



OBJECTIVES: *Provide/enhance bank protection, Provide channel stability*

STAKEHOLDERS: **COA Open Space Division, AMAFCA, Adjacent land owners**

CALABACILLAS ARROYO BANK MONITORING AND ENHANCEMENT 2 – EAGLE RANCH TO COORS

DISTRICT

AMAFCA	4
CITY COUNCIL	5
COUNTY COMMISSION	4
NM SENATE	10
NM HOUSE	23, 68

POTENTIAL AMAFCA FUNDING

2022	-
2023	\$75,000
2024	\$75,000
2025	\$75,000
2026	-
2027	-

SPONSORS:



TOTAL COST: \$225,000

OBJECTIVES: *Provide/enhance bank protection, Provide channel stability.*

STAKEHOLDERS: **COA Open Space Division, AMAFCA, Adjacent land owners**

DESCRIPTION

The Calabacillas Arroyo is a flood control facility that mimics a natural channel that provides open space and recreational corridors in northwest Albuquerque. Materials such as soil cement and rip rap, have been used throughout the facility to provide bank protection and grade control. These materials offer a natural appearance and blend in with the surrounding landscape. To ensure that the system is functioning as designed, these protective treatments must be monitored and inspected for damage or degradation. This facility has been split into four reaches within the Calabacillas Arroyo. This project will monitor channel erosion, protective treatments, and channel performance along with construction enhancements and modifications where necessary in the reach from Eagle Ranch to Coors Boulevard.

CALABACILLAS ARROYO BANK MONITORING AND ENHANCEMENT 3 – BLACK DIVERSION TO EAGLE RANCH

DISTRICT

AMAFCA	4
CITY COUNCIL	5
COUNTY COMMISSION	4
NM SENATE	10
NM HOUSE	23, 68

POTENTIAL AMAFCA FUNDING

2022	-
2023	\$75,000
2024	\$75,000
2025	\$75,000
2026	-
2027	-



TOTAL COST: \$225,000

SPONSORS:



DESCRIPTION

The Calabacillas Arroyo is a flood control facility that mimics a natural channel that provides open space and recreational corridors in northwest Albuquerque. Materials such as soil cement and rip rap, have been used throughout the facility to provide bank protection and grade control. These materials offer a natural appearance and blend in with the surrounding landscape. To ensure that the system is functioning as designed, these protective treatments must be monitored and inspected for damage or degradation. This facility has been split into four reaches within the Calabacillas Arroyo. This project will monitor channel erosion, protective treatments, and channel performance along with construction enhancements and modifications where necessary in the reach from Black's Diversion to Eagle Ranch.



OBJECTIVES: *Provide/enhance bank protection, Provide channel stability*

STAKEHOLDERS: **CoA Open Space Division, AMAFCA, Adjacent land owners**

CALABACILLAS ARROYO BANK MONITORING AND ENHANCEMENT 4 – GOLF COURSE TO UNSER BOULEVARD

DISTRICT	
AMAFCA	2
CITY COUNCIL	5
COUNTY COMMISSION	4
NM SENATE	10
NM HOUSE	68

POTENTIAL AMAFCA FUNDING	
2022	-
2023	\$75,000
2024	\$75,000
2025	\$75,000
2026	-
2027	-

SPONSORS:



TOTAL COST: \$225,000



OBJECTIVES: *Provide/enhance bank protection, Provide channel stability*

STAKEHOLDERS: CoA Open Space Division, AMAFCA, Adjacent land owners

DESCRIPTION

The Calabacillas Arroyo is a flood control facility that mimics a natural channel that provides open space and recreational corridors in northwest Albuquerque. Materials such as soil cement and rip rap, have been used throughout the facility to provide bank protection and grade control. These materials offer a natural appearance and blend in with the surrounding landscape. To ensure that the system is functioning as designed, these protective treatments must be monitored and inspected for damage or degradation. This facility has been split into four reaches within the Calabacillas Arroyo. This project will monitor channel erosion, protective treatments, and channel performance along with construction enhancements and modifications where necessary in the reach from Golf Course to Unser Boulevard.

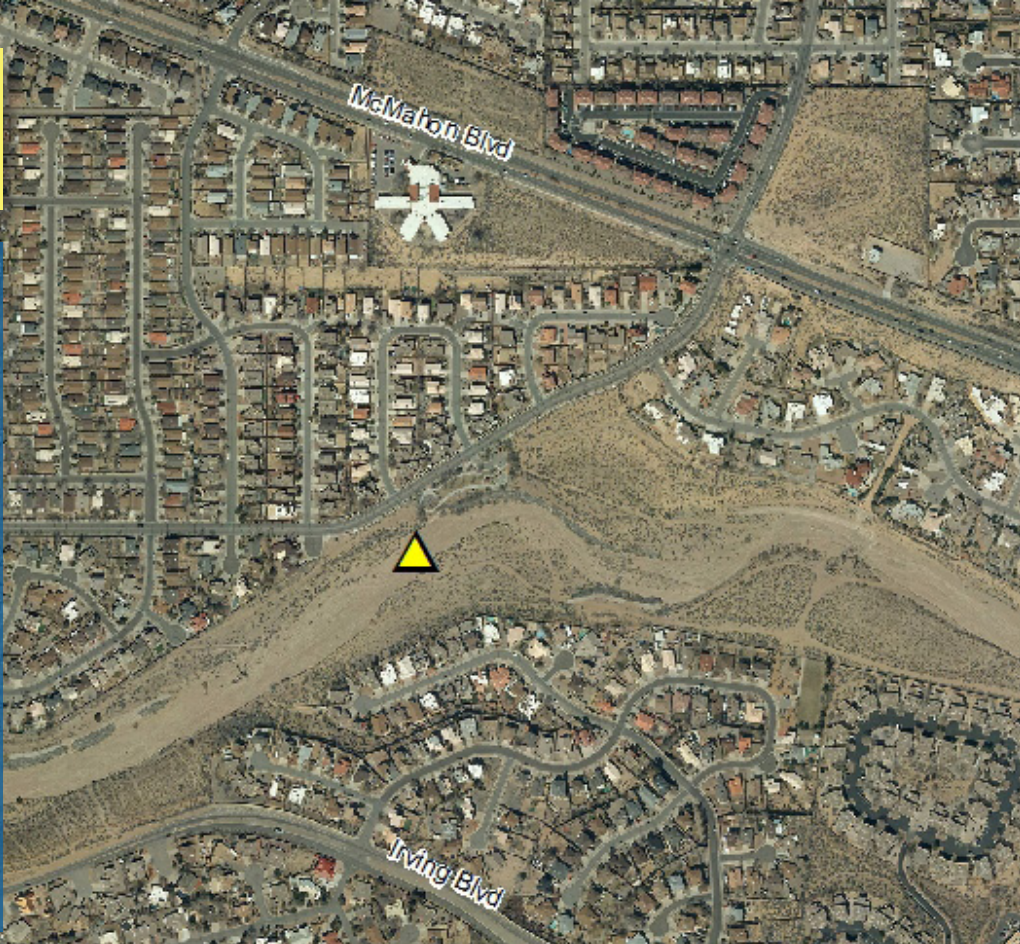
CALABACILLAS GCS 3A1 AND BANK PROTECTION

DISTRICT

AMAFCA	2
CITY COUNCIL	5
COUNTY COMMISSION	4
NM SENATE	10
NM HOUSE	68

POTENTIAL AMAFCA FUNDING

2022	-
2023	\$150,000
2024	\$1,173,000
2025	-
2026	-
2027	-



TOTAL COST: \$1,323,000

SPONSORS: 

DESCRIPTION

The Calabacillas Arroyo is a unique arroyo in the region. To maintain a natural look, numerous grade control structures were constructed along the arroyo to allow development and provide flood protection. Calabacillas Grade Control Structure 3a1 was identified in the Calabacillas Arroyo Facility Plan as a needed structure to provide vertical and lateral erosion control of the Calabacillas Arroyo. The additional bank protection will assist in lateral erosion control as well.



OBJECTIVES: *Provide/enhance bank protection , Provide channel stability*

STAKEHOLDERS: **AMAFCA, CoA Open Space Division**

CALABACILLAS MAIN BRANCH GCS 2 EXTENSION

DISTRICT

AMAFCA	4
CITY COUNCIL	5
COUNTY COMMISSION	4
NM SENATE	10
NM HOUSE	68

POTENTIAL AMAFCA FUNDING

2022	\$1,200,000
2023	-
2024	-
2025	-
2026	-
2027	-

SPONSORS:



TOTAL COST: \$1,200,000



OBJECTIVES: *Provide/enhance bank protection, Provide channel stability*

STAKEHOLDERS: AMAFCA, CoA Open Space Division

DESCRIPTION

AMAFCA recently completed a study of the Calabacillas Arroyo Above Swinburne Dam. Identified in the study is a northward migrating meander just upstream of Grade Control Structure 2 on the main branch of the Calabacillas Arroyo. To prevent the possible flanking of this structure, a northward extension of the grade control structure wing wall will be built.

CNM GRADE CONTROL STRUCTURES

DISTRICT

AMAFCA	2, 4
CITY COUNCIL	N/A
COUNTY COMMISSION	4
NM SENATE	23
NM HOUSE	29

POTENTIAL AMAFCA FUNDING

2022	\$1,200,000
2023	-
2024	-
2025	-
2026	-
2027	-



TOTAL COST: \$3,600,000

SPONSORS: AMAFCA



DESCRIPTION

The West Branch of the Calabacillas Arroyo flows through the CNM westside campus. To provide channel stability through the campus, a series of grade control structures will be constructed. These structures will provide stability to the arroyo and protect buildings and other facilities on the CNM campus. Pedestrian access across the arroyo may be included in the project as part of the CNM funding contribution.



OBJECTIVES: *Provide/enhance bank protection, Provide channel stability*

STAKEHOLDERS: AMAFCA, CNM



CORRALES MAIN DIVERSION

DISTRICT	
AMAFCA	4
CITY COUNCIL	5
COUNTY COMMISSION	4
NM SENATE	10
NM HOUSE	23

POTENTIAL AMAFCA FUNDING	
2022	-
2023	\$250,000
2024	\$950,000
2025	-
2026	-
2027	-

SPONSORS: 

TOTAL COST: \$1,200,000



OBJECTIVES: *Provide/increase system/facility capacity, Provide early hazard warning, Reduce drainage/flooding issues*

STAKEHOLDERS: AMAFCA, CoA, MRGCD, OSE

DESCRIPTION

This project will install an automated gate structure in the Corrales Main Canal at the Calabacillas siphon that will close and divert irrigation water out of the Canal into the Bosque using existing infrastructure when the Piedras Marcadas dam is discharging. The gate will open again once the dam ceases discharging to the Canal. This will generate additional capacity in Piedras Marcadas Dam by removing the manual gate and associated holding time.

DALLAS SURGE POND

DISTRICT

AMAFCA	5
CITY COUNCIL	6
COUNTY COMMISSION	3
NM SENATE	17
NM HOUSE	19

POTENTIAL AMAFCA FUNDING

2022	\$400,000
2023	-
2024	-
2025	-
2026	-
2027	-



TOTAL COST: **\$800,000**

SPONSORS:



DESCRIPTION

A surge pond near the Dallas Storm Drain will provide temporary storage for stormwater that periodically overwhelms the drainage system. Adding this relief provides the capacity needed to prevent water from traveling past the existing infrastructure in moderate sized rain events. This structure will be coordinated within the redevelopment of the adjacent block.



OBJECTIVES: *Provide/increase system/facility capacity, Reduce drainage/flooding issues, Remove floodplain*

STAKEHOLDERS: **CoA, AMAFCA**

GIBSON – SAN MATEO FLOODPLAIN RESTUDY

DISTRICT

AMAFCA	5
CITY COUNCIL	6
COUNTY COMMISSION	3
NM SENATE	16, 17
NM HOUSE	10, 19

POTENTIAL AMAFCA FUNDING

2022	\$50,000
2023	-
2024	-
2025	-
2026	-
2027	-

SPONSORS:



TOTAL COST: \$100,000

OBJECTIVES: *Provide/increase system/facility capacity, Reduce drainage/flooding issues, Remove floodplain, Provide/enhance storm water quality*

STAKEHOLDERS: CoA, AMAFCA, KAFB

DESCRIPTION

A comprehensive study of the upland watershed and storm drain network capacity in a residential neighborhood near the San Mateo/Gibson intersection in southeast Albuquerque is needed to determine the existing floodplain. The current available floodplain analysis may not be accurate due to development downstream of and within the affected neighborhood, and upstream on Kirtland Air Force Base. This study will determine locations of floodplain and drainage issues and provide data for the development of future projects to address these problems.

GIBSON-SAN MATEO REGIONAL DRAINAGE FACILITY



DISTRICT

AMAFCA	5
CITY COUNCIL	6
COUNTY COMMISSION	3
NM SENATE	17
NM HOUSE	19

POTENTIAL AMAFCA FUNDING

2022	\$900,000
2023	-
2024	-
2025	-
2026	-
2027	-



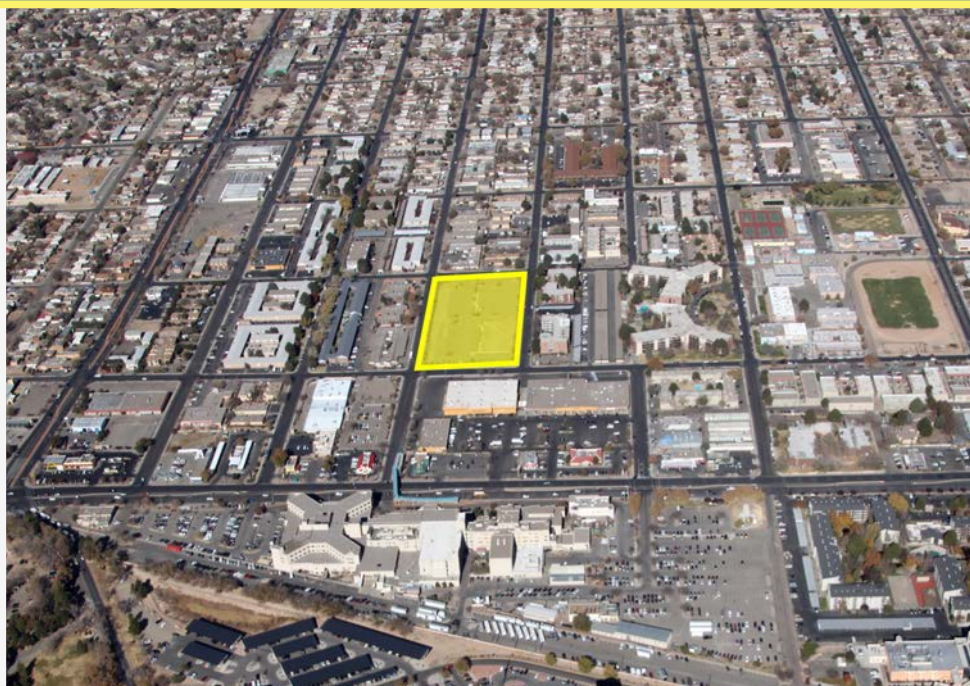
TOTAL COST: \$1,200,000

SPONSORS:



DESCRIPTION

A 30-acre-foot detention pond near Eastern and Alvarado will relieve the surcharging of the Campus Wash storm drain system and allow for the removal of floodplain between San Mateo and San Pedro, north of Gibson. The project will include additional storm drain in Gibson to convey runoff to the drainage facility.



OBJECTIVES: *Remove floodplain, Provide/increase system/facility capacity*

STAKEHOLDERS: **CoA, AMAFCA**

GLENDALE STORM DRAIN

DISTRICT

AMAFCA	4
CITY COUNCIL	4
COUNTY COMMISSION	4
NM SENATE	21
NM HOUSE	31

POTENTIAL AMAFCA FUNDING

2022	\$100,000
2023	\$150,000
2024	\$1,427,000
2025	-
2026	-
2027	-

SPONSORS:



TOTAL COST: \$2,627,000

DESCRIPTION

The storm drain will be constructed in Glendale Avenue from the proposed Hamilton Dam near Eubank Boulevard to the El Camino sediment pond near Barstow Street. The storm drain will provide flooding relief for approximately 200 properties along Glendale Avenue and allow for the removal of floodplain in the area. The storm drain may also be used as a conveyance for other regional storm drainage projects in the area.

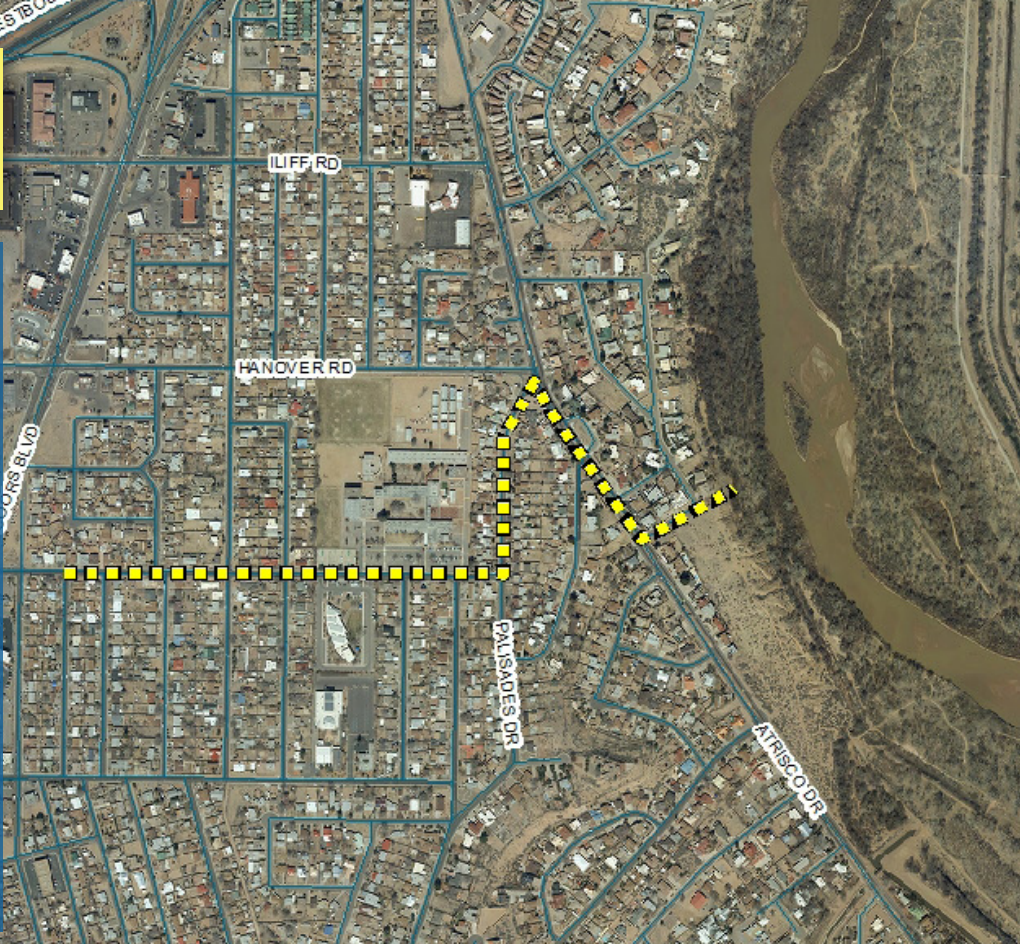
OBJECTIVES: Remove floodplain, Reduce drainage/flooding issues, Provide/increase system/facility capacity

STAKEHOLDERS: AMAFCA, CoA, BernCo

GLENRIO LOMA HERMOSA STORM DRAIN

DISTRICT	
AMAFCA	1
CITY COUNCIL	1
COUNTY COMMISSION	1
NM SENATE	26
NM HOUSE	16

POTENTIAL AMAFCA FUNDING	
2022	\$500,000
2023	-
2024	-
2025	-
2026	-
2027	-



TOTAL COST: \$10,126,000

SPONSORS:  

DESCRIPTION

The current storm drain in Glenrio is undersized and hydraulically inefficient. This neighborhood was built in the early part of the 20th century and included drainage facilities that are inadequate today. Replacing the existing storm drain with a larger pipe or parallel pipe using an alternate corridor will be necessary due to existing residential properties between Atrisco and the Rio Grande. The upgraded storm drain would remove FEMA floodplain from approximately 100 properties.



OBJECTIVES: Reduce drainage/flooding issues, Provide/increase system/facility capacity, Remove floodplain,

STAKEHOLDERS: AMAFCA, CoA

GRANTLINE WQ LINING

DISTRICT

AMAFCA	3
CITY COUNCIL	4
COUNTY COMMISSION	3
NM SENATE	15
NM HOUSE	17

POTENTIAL AMAFCA FUNDING

2022	\$835,000
2023	-
2024	-
2025	-
2026	-
2027	-

SPONSORS:



TOTAL COST: \$835,000



OBJECTIVES: *Provide/enhance facility maintenance*
Provide/enhance storm water quality

STAKEHOLDERS: AMAFCA

DESCRIPTION

The Grantline Water Quality Structure was built in 2011. The facility diverts lower flows from the Grantline channel into a water quality pond. The pond has a plastic liner under a soil top to protect the North Diversion Channel. Routine maintenance can damage the liner, which is difficult to repair or replace. The project will line the existing pond with concrete to provide a stable working platform for equipment and allow greater mechanization of the maintenance activities.

HAMILTON DAM



DISTRICT

AMAFCA	4
CITY COUNCIL	N/A
COUNTY COMMISSION	4
NM SENATE	21
NM HOUSE	31

POTENTIAL AMAFCA FUNDING

2022	-
2023	-
2024	-
2025	-
2026	\$926,000
2027	\$3,110,000



TOTAL COST: **\$4,036,000**

SPONSORS: 

DESCRIPTION

Hamilton Dam, situated between Glendale and Florence Avenues on the El Camino Arroyo, will control flows in the arroyo downstream in order to maintain and protect existing drainage facilities and private properties. Hamilton Dam will be designed to release flow rates at or below rates provided in the North Albuquerque Acres Drainage Management Plan. The 36-foot-high dam will detain a minimum of 104 acre-feet of storm water and sediment, which will lower peak flows in the arroyo and allow for the reduction of floodplain downstream.



OBJECTIVES: *Provide/increase system/facility capacity, Reduce drainage/flooding issues*

STAKEHOLDERS: **AMAFCA, BernCo, OSE**

HUBBELL DAM EMERGENCY ACTION PLAN

DISTRICT	
AMAFCA	1
CITY COUNCIL	N/A
COUNTY COMMISSION	2
NM SENATE	14
NM HOUSE	10

POTENTIAL AMAFCA FUNDING	
2022	\$50,000
2023	-
2024	-
2025	-
2026	-
2027	-

SPONSORS:



TOTAL COST: \$50,000

OBJECTIVES: *Provide emergency planning and mapping*

STAKEHOLDERS: **Emergency Responders, OSE, AMAFCA**

DESCRIPTION

An Emergency Action Plan (EAP) is a formal plan required by the Office of the State Engineer Bureau of Dam Safety that identifies potential emergency conditions at a dam and outlines the procedures to follow to minimize property damage and loss of life. This project will include the development and preparation of an EAP and inundation maps for the Hubbell Dam. The EAP will contain procedures to be followed during an emergency, such as structural problems, equipment malfunctions, or natural events such as floods or earthquakes that could approach or exceed the dam design limits. Inundation mapping will outline the evacuation boundaries for the community on a map in the event of a dam failure.



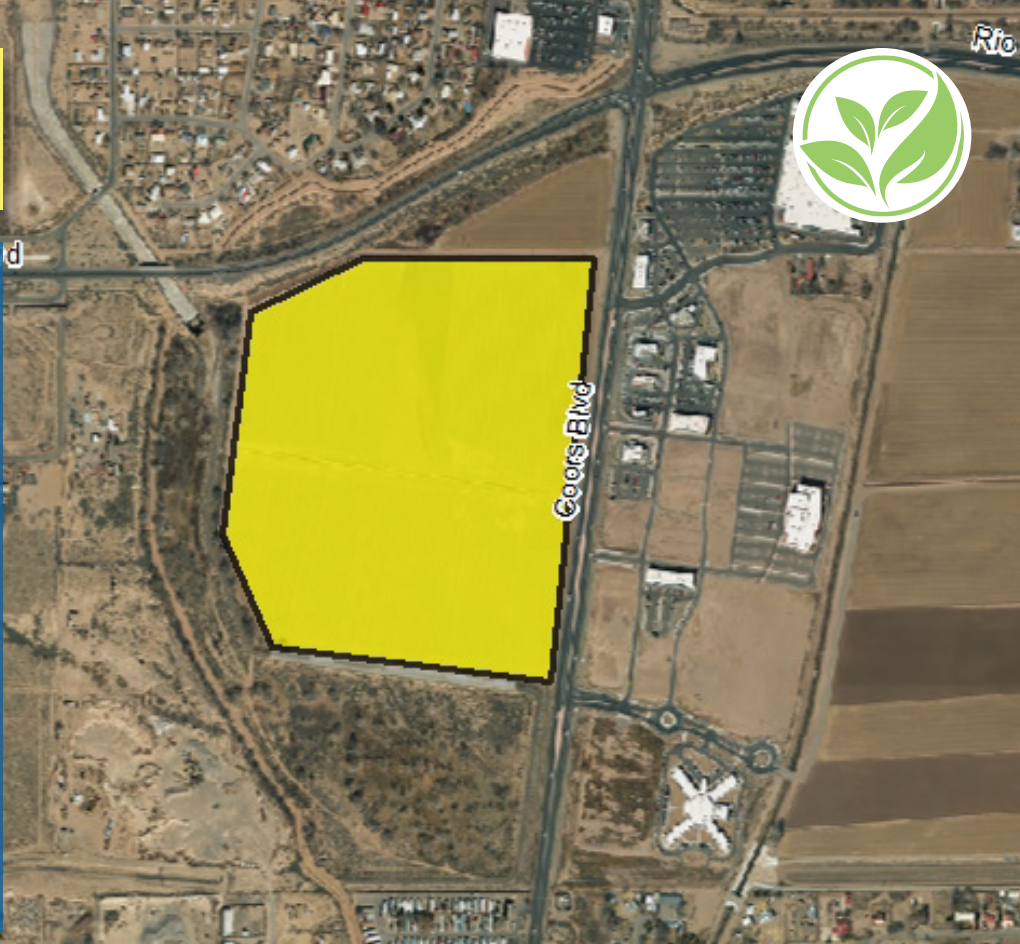
HUBBELL DAM EXPANSION

DISTRICT

AMAFCA	1
CITY COUNCIL	N/A
COUNTY COMMISSION	2
NM SENATE	14
NM HOUSE	10

POTENTIAL AMAFCA FUNDING

2022	\$100,000
2023	\$100,000
2024	\$302,000
2025	\$2,620,000
2026	-
2027	-



TOTAL COST: **\$3,122,000**

SPONSORS: 

DESCRIPTION

The Hubbell Dam will be expanded by constructing an embankment around the perimeter of the agricultural field north of the existing facility. The agricultural use of the field will continue to be utilized. This will provide the needed stormwater detention capacity in the Amole/Hubbell Dam system facilities.



OBJECTIVES: *Provide/increase system/facility capacity*

STAKEHOLDERS: **AMAFCA, OSE, CoA, BernCo**

JOHN B. ROBERT DAM EMERGENCY ACTION PLAN

DISTRICT

AMAFCA	3
CITY COUNCIL	8
COUNTY COMMISSION	5
NM SENATE	18
NM HOUSE	31

POTENTIAL AMAFCA FUNDING

2022	\$50,000
2023	-
2024	-
2025	-
2026	-
2027	-

SPONSORS:



TOTAL COST: \$50,000

OBJECTIVES: *Provide emergency planning and mapping*

STAKEHOLDERS: **Emergency Responders, OSE, AMAFCA**

DESCRIPTION

An Emergency Action Plan (EAP) is a formal plan required by the Office of the State Engineer Bureau of Dam Safety that identifies potential emergency conditions at a dam and outlines the procedures to follow to minimize property damage and loss of life. This project will include the development and preparation of an EAP and inundation maps for John B. Robert Dam. The EAP will contain procedures to be followed during an emergency, such as structural problems, equipment malfunctions, or natural events such as floods or earthquakes that could approach or exceed the dam design limits. Inundation mapping will outline the evacuation boundaries for the community on a map in the event of a dam failure.

KARSTEN AREA RESTUDY

DISTRICT

AMAFCA	1
CITY COUNCIL	2
COUNTY COMMISSION	2
NM SENATE	12, 14
NM HOUSE	10

POTENTIAL AMAFCA FUNDING

2022	\$100,000
2023	-
2024	-
2025	-
2026	-
2027	-



TOTAL COST: **\$100,000**

SPONSORS:



DESCRIPTION

The Karsten Area Restudy will determine where flooding and drainage issues occur in the South Broadway area near Karsten road. The capacities of the current storm drains and drainage infrastructure will be analyzed to make recommendations for future facilities including those for water quality improvement.



OBJECTIVES: *Provide/increase system/facility capacity, Reduce drainage/flooding issues*

STAKEHOLDERS: **CoA, AMAFCA**

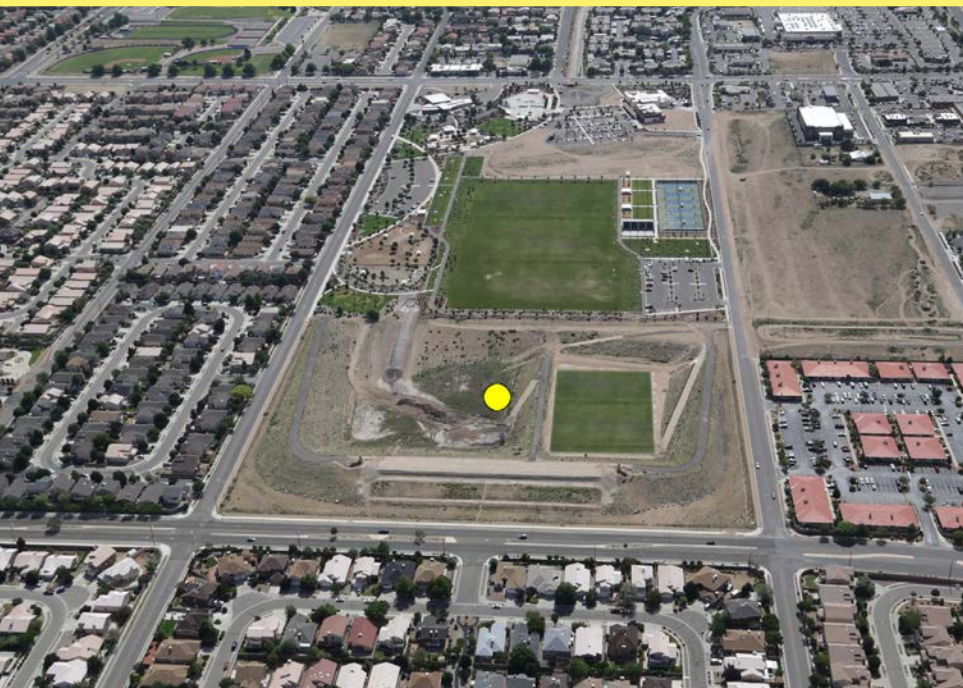
KINNEY DAM EMERGENCY ACTION PLAN

DISTRICT	
AMAFCA	4
CITY COUNCIL	4
COUNTY COMMISSION	4
NM SENATE	21
NM HOUSE	15

POTENTIAL AMAFCA FUNDING	
2022	\$50,000
2023	-
2024	-
2025	-
2026	-
2027	-

SPONSORS: 

| TOTAL COST: \$50,000



OBJECTIVES: *Provide emergency planning and mapping*

STAKEHOLDERS: **Emergency Responders, OSE, AMAFCA**

DESCRIPTION

An Emergency Action Plan (EAP) is a formal plan required by the Office of the State Engineer Bureau of Dam Safety that identifies potential emergency conditions at a dam and outlines the procedures to follow to minimize property damage and loss of life. This project will include the development and preparation of an EAP and inundation maps for Kinney Dam. The EAP will contain procedures to be followed during an emergency, such as structural problems, equipment malfunctions, or natural events such as floods or earthquakes that could approach or exceed the dam design limits. Inundation mapping will outline the evacuation boundaries for the community on a map in the event of a dam failure.

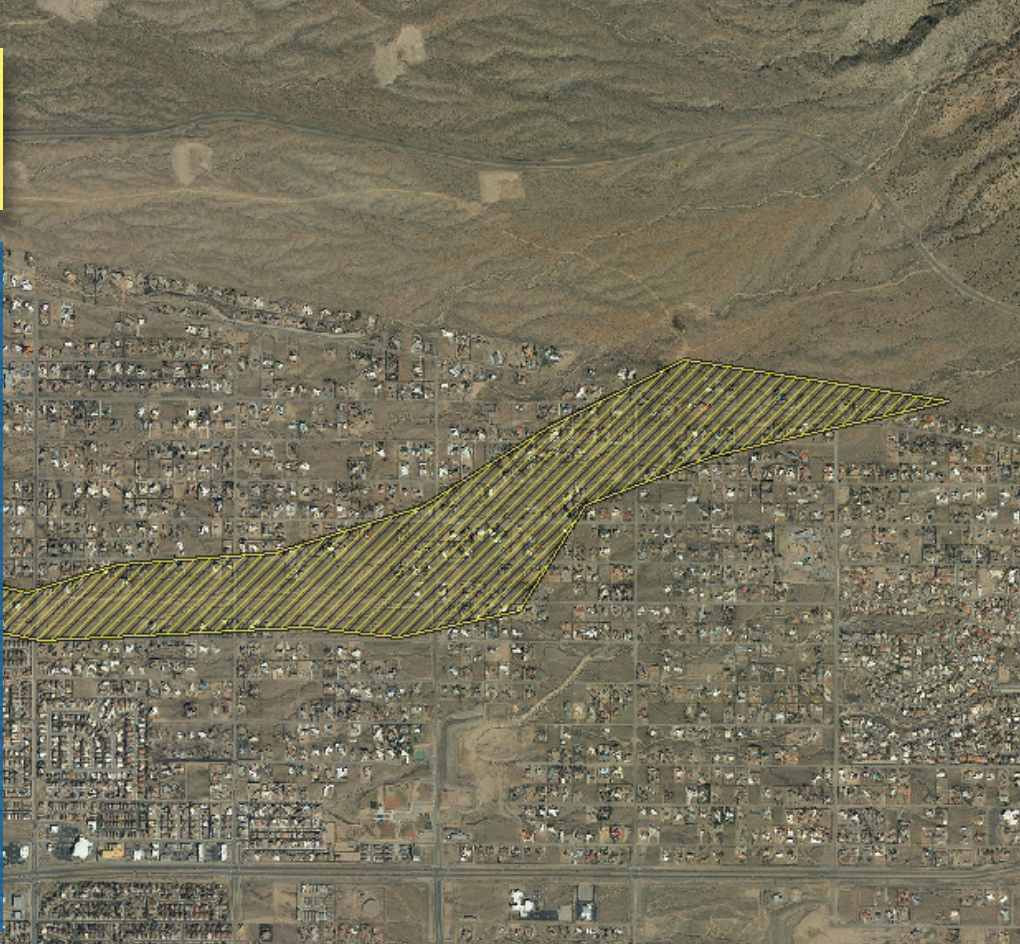
LA CUEVA ARROYO HYDRAULIC STUDY

DISTRICT

AMAFCA	4
CITY COUNCIL	4
COUNTY COMMISSION	4
NM SENATE	21
NM HOUSE	31

POTENTIAL AMAFCA FUNDING

2022	\$125,000
2023	\$125,000
2024	-
2025	-
2026	-
2027	-



TOTAL COST: **\$500,000**

SPONSORS:



DESCRIPTION

The La Cueva Arroyo Hydraulic Study will analyze the existing conditions along the La Cueva Arroyo through North Albuquerque Acres and develop a comprehensive hydraulic model of the arroyo. The model will be used to evaluate future development and ensure that there are no impacts to adjacent property owners or FEMA floodplains. The model will continue to be updated as development occurs.



OBJECTIVES: *Remove floodplain*

STAKEHOLDERS: **BernCo, AMAFCA**

LADERA DAM 1 UPGRADE

DISTRICT

AMAFCA	2
CITY COUNCIL	1
COUNTY COMMISSION	1
NM SENATE	23
NM HOUSE	29

POTENTIAL AMAFCA FUNDING

2022	-
2023	-
2024	-
2025	-
2026	\$150,000
2027	\$867,000

SPONSORS:



TOTAL COST: \$1,017,000



OBJECTIVES: *Provide/increase system/facility capacity, Reduce drainage/flooding issues*

STAKEHOLDERS: **AMAFCA, Private**

DESCRIPTION

Ladera Dam 1 is an existing detention basin at the top of the Ladera Dam System. This facility is the second in a series of 16 dams that provide flood protection in western Albuquerque. To accommodate the additional runoff from development, Dam 1 will be expanded. This expansion will provide additional storm water and sediment detention and will lower peak flows in the arroyo and provide additional downstream capacity using existing structures.

LADERA DAM 5 DIVERSION

DISTRICT

AMAFCA	2
CITY COUNCIL	1
COUNTY COMMISSION	1
NM SENATE	23, 26
NM HOUSE	26, 29

POTENTIAL AMAFCA FUNDING

2022	\$651,000
2023	\$1,000,000
2024	-
2025	-
2026	-
2027	-



TOTAL COST: \$1,651,000

SPONSORS: AMAFCA

DESCRIPTION

Ladera Dam 5 is an existing detention basin just west of Arroyo Vista Blvd. It is the sixth in a series of 16 dams that provide flood protection in western Albuquerque. To accommodate the additional runoff from development, water from Ladera Dam 5 will be diverted from the Ladera watershed into the West I-40 watershed. This diversion will provide additional storm water capacity within the system create downstream capacity within the existing structures.



OBJECTIVES: Provide/increase system/facility capacity, Reduce drainage/flooding issues

STAKEHOLDERS: AMAFCA, Private

LADERA DAMS 10, 12, 14, 15 EMERGENCY ACTION PLANS

DISTRICT	
AMAFCA	2
CITY COUNCIL	1
COUNTY COMMISSION	1
NM SENATE	26
NM HOUSE	29, 16

POTENTIAL AMAFCA FUNDING

2022	-
2023	\$250,000
2024	-
2025	-
2026	-
2027	-

SPONSORS:



TOTAL COST: \$250,000



OBJECTIVES: *Provide emergency planning and mapping.*

STAKEHOLDERS: Emergency Responders, OSE, AMAFCA

DESCRIPTION

An Emergency Action Plan (EAP) is a formal plan required by the Office of the State Engineer Bureau of Dam Safety that identifies potential emergency conditions at a dam and outlines the procedures to follow to minimize property damage and loss of life. This project will include the development and preparation of an EAP and inundation maps for Ladera Dams 10, 12, 14, and 15. The EAP will contain procedures to be followed during an emergency, such as structural problems, equipment malfunctions, or natural events such as floods or earthquakes that could approach or exceed the dam design limits. Inundation mapping will outline the evacuation boundaries for the community on a map in the event of a dam failure.

LAS VENTANAS DAM STORM WATER QUALITY UPGRADES



DISTRICT	
AMAFCA	2
CITY COUNCIL	5
COUNTY COMMISSION	4
NM SENATE	23
NM HOUSE	29

POTENTIAL AMAFCA FUNDING	
2022	-
2023	-
2024	-
2025	\$525,000
2026	-
2027	-



TOTAL COST: \$525,000

SPONSORS:



DESCRIPTION

The upgrades for this project will incorporate Best Management Practices to enhance stormwater quality for flows entering the Las Ventanas Dam, improving the quality of stormwater released to the river and providing compliance with the EPA MS4 permit. This project will reduce maintenance costs by concentrating trash and debris at prescribed locations. Two channel inlets and three storm drain inlets will be retrofitted with debris fences to capture floatables and debris.



OBJECTIVES: *Provide/enhance facility maintenance, Provide/enhance storm water quality*

STAKEHOLDERS: **AMAFCA, CoA, OSE**



MAX'S INLET STORM WATER QUALITY UPGRADE

DISTRICT

AMAFCA	1
CITY COUNCIL	N/A
COUNTY COMMISSION	2
NM SENATE	14
NM HOUSE	10

POTENTIAL AMAFCA FUNDING

2022	-
2023	-
2024	-
2025	-
2026	-
2027	\$340,000

SPONSORS:



TOTAL COST: \$340,000



OBJECTIVES: *Provide/enhance storm water quality, Provide/enhance facility maintenance*

STAKEHOLDERS: AMAFCA

DESCRIPTION

Max's Inlet into the South Diversion Channel receives a large quantity of sediment from the upland watershed, creating a deep sediment plug at the base of the inlet, within the flow path of the channel. A sediment control facility will reduce maintenance and control sediment before it goes into the South Diversion Channel and ultimately the Rio Grande.

MCCOY CHANNEL A

DISTRICT

AMAFCA	1
CITY COUNCIL	N/A
COUNTY COMMISSION	2
NM SENATE	14
NM HOUSE	26

POTENTIAL AMAFCA FUNDING

2022	-
2023	-
2024	\$250,000
2025	\$3,803,000
2026	-
2027	-



TOTAL COST: **\$4,053,000**

SPONSORS: 

DESCRIPTION

The project will construct a diversion channel within existing AMAFCA right-of-way to collect flows from north and west of the dam. This will prevent these flows from flooding the adjacent neighborhoods and bypassing the dam and inundating the valley floor. It will allow for the removal of existing residential areas from FEMA floodplains.



OBJECTIVES: *Provide/increase system/facility capacity, Reduce drainage/flooding issues, Remove floodplain*

STAKEHOLDERS: **AMAFCA, BernCo, Valley residents**



MCEWEN POND GI/ LID IMPROVEMENTS

DISTRICT

AMAFCA	1
CITY COUNCIL	N/A
COUNTY COMMISSION	2
NM SENATE	11
NM HOUSE	12

POTENTIAL AMAFCA FUNDING

2022	\$25,000
2023	-
2024	-
2025	-
2026	-
2027	-

SPONSORS:



TOTAL COST: \$100,000

DESCRIPTION

United States Geological Survey will monitor stormwater quality pre- and post-installation of Green Infrastructure (GI) and Low Impact Development (LID) structural features in the pond. The purpose of this pilot project is to sample stormwater before and after processing in the pond to evaluate the performance of GI best management practices relative to stormwater quality.

OBJECTIVES: *Provide/enhance storm water quality*

STAKEHOLDERS:

APS, BernCo, AMAFCA

MISCELLANEOUS CONSTRUCTION PROJECTS

DISTRICT

AMAFCA	1-5
CITY COUNCIL	1-9
COUNTY COMMISSION	1-5
NM SENATE	9-21, 23, 26, 29
NM HOUSE	10-31, 68, 69

POTENTIAL AMAFCA FUNDING

2022	\$1,000,000
2023	\$700,000
2024	\$500,000
2025	\$500,000
2026	\$500,000
2027	\$500,000



TOTAL COST: \$3,700,000

SPONSORS: 

DESCRIPTION

The miscellaneous projects are small projects throughout the entire AMAFCA jurisdiction that are generally too small to be bid by themselves. These projects are combined for better design and construction pricing. Typical projects include access control improvements, stormwater quality enhancements, as well as enhancements to existing structures.



OBJECTIVES: *Provide/enhance facility maintenance, Provide/increase system/facility capacity, Provide/enhance storm water quality*

STAKEHOLDERS: AMAFCA



MISCELLANEOUS REAL ESTATE ACQUISITION

DISTRICT	
AMAFCA	1-5
CITY COUNCIL	1-9
COUNTY COMMISSION	1-5
NM SENATE	9-21, 23, 26, 29
NM HOUSE	10-31, 68, 69

POTENTIAL AMAFCA FUNDING	
2022	\$200,000
2023	\$200,000
2024	\$200,000
2025	\$200,000
2026	\$200,000
2027	\$200,000

SPONSORS:



| TOTAL COST: \$1,200,000



OBJECTIVES: *Provide/increase system/facility capacity, Reduce drainage/flooding issues,*

STAKEHOLDERS: AMAFCA

DESCRIPTION

During the design of some projects, additional real estate is required to reduce the cost of construction or expand a project to provide additional flood protection. The real estate acquisition can be in the form of real property, temporary construction easements, or permanent drainage or maintenance easements. Real estate acquisition is also done to support projects derived from drainage management plans or other planning documents. Market conditions, site constraints, and availability are considered when developing a plan for real estate acquisitions.

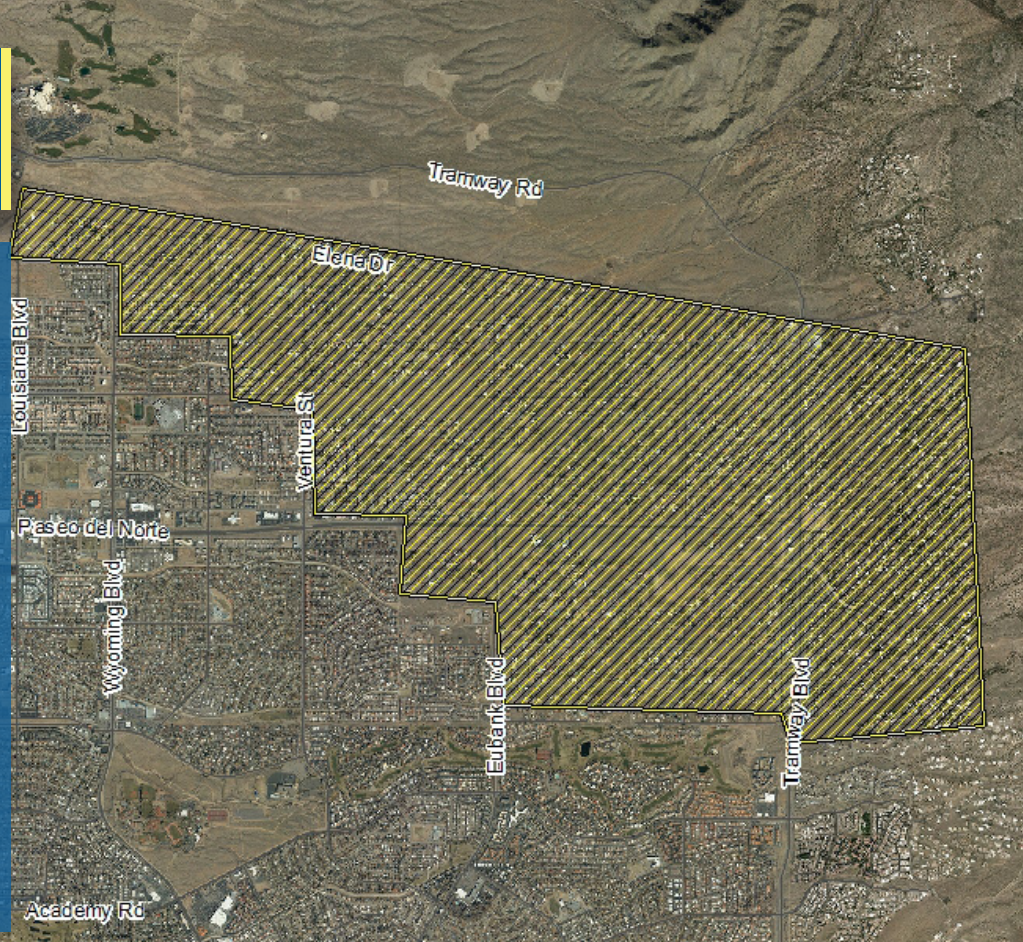
NORTH ALBUQUERQUE ACRES ARROYOS HYDRAULIC ANALYSES

DISTRICT

AMAFCA	4
CITY COUNCIL	4
COUNTY COMMISSION	4
NM SENATE	21
NM HOUSE	31

POTENTIAL AMAFCA FUNDING

2022	\$50,000
2023	\$50,000
2024	\$50,000
2025	\$50,000
2026	\$50,000
2027	\$50,000



TOTAL COST: \$600,000

SPONSORS: AMAFCA



DESCRIPTION

The North Albuquerque Acres Arroyos Hydraulic Analyses will analyze the existing conditions in the region. This analysis will quantify the encroachments in the arroyo flow paths and determine the effects on stormwater conveyances and floodplains. This hydraulic analysis will also allow for future development to occur without impacts to the existing floodplain.



OBJECTIVES: Remove floodplain

STAKEHOLDERS: BernCo, AMAFCA, CoA

NORTH DIVERSION CHANNEL OVERLAY

DISTRICT

AMAFCA	3, 4
CITY COUNCIL	4, 7
COUNTY COMMISSION	1, 3
NM SENATE	12, 13, 15
NM HOUSE	17, 18

POTENTIAL AMAFCA FUNDING

2022	\$1,500,000
2023	\$1,500,000
2024	\$1,500,000
2025	\$1,500,000
2026	\$1,500,000
2027	\$1,500,000

SPONSORS:



TOTAL COST: \$9,000,000

DESCRIPTION

The North Diversion Channel (NDC) drains 94 square miles of northeast Albuquerque and is the largest man-made concrete channel in Albuquerque. The NDC is now over 50 years old. To extend the life of the channel, AMAFCA has started applying a concrete overlay across the bottom of the channel. Various upstream sources provide constant trickle water that keeps the bottom wet. The new overlay includes a gentle slope across the bottom to force the trickle water to one side, further extending the lifespan of the concrete.

OBJECTIVES: *Provide channel stability, Provide/enhance facility maintenance*

STAKEHOLDERS: **AMAFCA**

NORTH DIVERSION CHANNEL / INDIAN SCHOOL WATER QUALITY POND



DISTRICT

AMAFCA	5
CITY COUNCIL	2
COUNTY COMMISSION	3
NM SENATE	12
NM HOUSE	18

POTENTIAL AMAFCA FUNDING

2022	-
2023	\$200,000
2024	\$3,650,000
2025	-
2026	-
2027	-



TOTAL COST: \$3,850,000

SPONSORS: AMAFCA



DESCRIPTION

The North Diversion Channel (NDC) transports approximately one third of the urban metropolitan area runoff to the Rio Grande. The location provides treatment for one of the larger untreated watersheds to the NDC. The project will construct a diversion wall and basin that will trap trash and sediment in an easily maintained structure. The wall will be designed so the channel continues to provide flood protection. The debris basin will significantly reduce manual trash removal in the downstream areas and provide compliance with the EPA MS4 permit.



OBJECTIVES: Provide/enhance facility maintenance, Provide/enhance storm water quality

STAKEHOLDERS: UNM, CoA, AMAFCA, North Campus Neighborhood Residents

NORTH DOMINGO BACA DAM EMERGENCY ACTION PLAN (EAP)

DISTRICT

AMAFCA	4
CITY COUNCIL	4
COUNTY COMMISSION	4
NM SENATE	21
NM HOUSE	31

POTENTIAL AMAFCA FUNDING

2022	\$50,000
2023	-
2024	-
2025	-
2026	-
2027	-

SPONSORS:



TOTAL COST: \$50,000

DESCRIPTION

An Emergency Action Plan (EAP) is a formal plan required by the Office of the State Engineer Bureau of Dam Safety that identifies potential emergency conditions at a dam and outlines the procedures to follow to minimize property damage and loss of life. This project will include the development and preparation of an EAP and inundation maps for the North Domingo Baca Dam. The EAP will contain procedures to be followed during an emergency, such as structural problems, equipment malfunctions, or natural events such as floods or earthquakes that could approach or exceed the dam design limits. Inundation mapping will outline the evacuation boundaries for the community on a map in the event of a dam failure.

OBJECTIVES: *Provide emergency planning and mapping.*

STAKEHOLDERS: **Emergency Responders, OSE, AMAFCA**

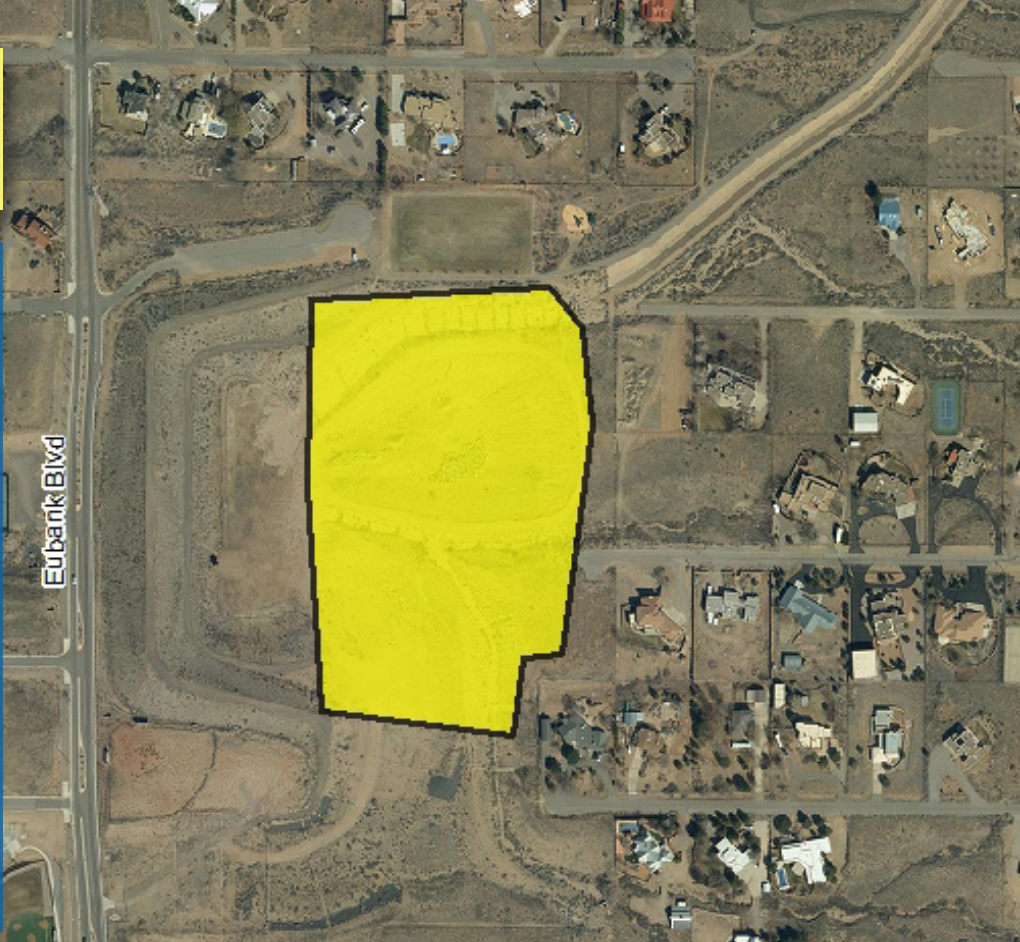
NORTH DOMINGO BACA DAM EXPANSION

DISTRICT

AMAFCA	4
CITY COUNCIL	N/A
COUNTY COMMISSION	4
NM SENATE	21
NM HOUSE	31

POTENTIAL AMAFCA FUNDING

2022	\$450,000
2023	\$3,351,000
2024	-
2025	-
2026	-
2027	-



TOTAL COST: \$3,801,000

SPONSORS: AMAFCA

DESCRIPTION

The expansion of North Domingo Baca Dam is needed due to additional diversions into the watershed. The dam modifications will include the excavation and expansion of the existing dam pool. Based on the preliminary design, the auxiliary spillway may need modification. Recently completed studies on extreme precipitation have changed the values for the probable maximum precipitation and may allow utilization of the exiting auxiliary spillway.



OBJECTIVES: Provide/increase system/facility capacity

STAKEHOLDERS: AMAFCA, OSE, BernCo



NORTH GEOLOGIC WINDOW DAM



DISTRICT	
AMAFCA	2
CITY COUNCIL	5
COUNTY COMMISSION	1
NM SENATE	23
NM HOUSE	29

POTENTIAL AMAFCA FUNDING	
2022	-
2023	-
2024	-
2025	\$225,000
2026	\$100,000
2027	\$3,759,000

SPONSORS:



TOTAL COST: \$4,084,000



OBJECTIVES: *Provide/increase system/facility capacity, Reduce drainage/flooding issues*

STAKEHOLDERS: **AMAFCA, NPS, OSE**

DESCRIPTION

This project will help to control flows in the Boca Negra Arroyo as they enter the North Geologic Window, a parcel of land included in the Petroglyph National Monument. A proposed detention dam located just west of the North Geologic Window, was identified in the Boca Negra Drainage Management Plan. The detention dam will be designed to hold 173 acre-feet of storage and will need to blend in with the surrounding landscape.

NORTH JOHNECE STORM DRAIN

DISTRICT

AMAFCA	1
CITY COUNCIL	N/A
COUNTY COMMISSION	2
NM SENATE	14
NM HOUSE	26

POTENTIAL AMAFCA FUNDING

2022	-
2023	-
2024	-
2025	\$150,000
2026	\$1,732,000
2027	-



TOTAL COST: \$3,764,000

SPONSORS:



DESCRIPTION

This project will provide the necessary infrastructure to remove floodplain and relieve area drainage problems in the vicinity of Powers Way and Johniece Drive, and areas east of Johniece near Coors Boulevard. A 30-72" storm drain will be installed in Johniece Drive from Powers Way to the McCoy Dam and a small, approximately 10 acre-foot detention pond constructed in the arroyo west of Ray Lane. Right of Way will have to be acquired for the storm drain and pond.



OBJECTIVES: *Provide/increase system/facility capacity, Reduce drainage/flooding issues, Remove floodplain*

STAKEHOLDERS: **Area residents, BernCo, AMAFCA**



PARADISE WEST DAM

DISTRICT	
AMAFCA	2
CITY COUNCIL	N/A
COUNTY COMMISSION	1
NM SENATE	23
NM HOUSE	29

POTENTIAL AMAFCA FUNDING	
2022	-
2023	-
2024	-
2025	\$200,000
2026	\$987,000
2027	-

SPONSORS:



TOTAL COST: \$1,187,000



OBJECTIVES: *Provide/increase system/facility capacity, Reduce drainage/flooding issues*

STAKEHOLDERS: AMAFCA, OSE

DESCRIPTION

This large detention facility near del Oeste Blvd will control flows in the West Branch of the Calabacillas Arroyo to historic rates, provide for reduction in sediment transport, and be designed for possible multi-use opportunities. Construction of the facility will allow for upstream development without impacting existing downstream infrastructure.

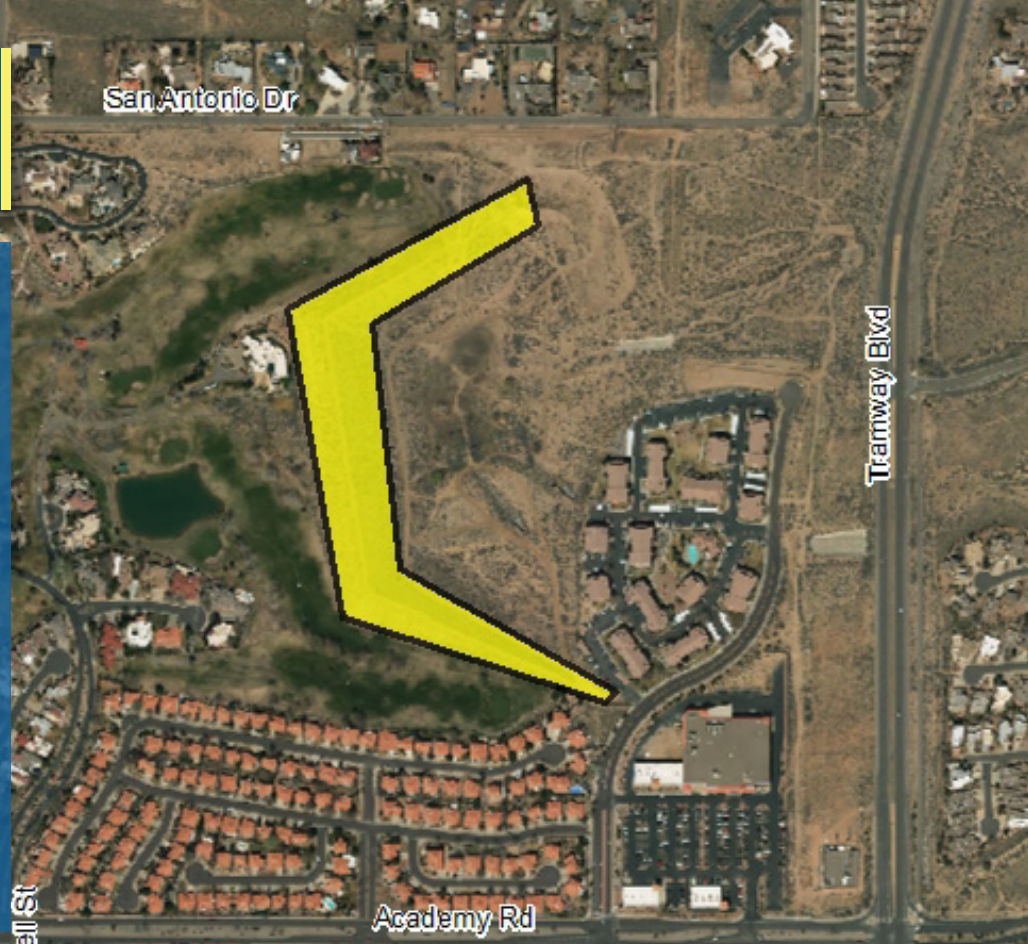
PINO DAM AUXILIARY SPILLWAY MODIFICATIONS

DISTRICT

AMAFCA	4
CITY COUNCIL	8
COUNTY COMMISSION	4
NM SENATE	21
NM HOUSE	31

POTENTIAL AMAFCA FUNDING

2022	-
2023	-
2024	-
2025	\$250,000
2026	\$2,570,000
2027	\$820,000



TOTAL COST: \$3,640,000

SPONSORS: AMAFCA

DESCRIPTION

Pino Dam is presently an earthen embankment dam near Tramway Boulevard and San Antonio Drive. The earthen auxiliary spillway has the potential to undergo head cutting if the spillway is operating. The modifications proposed for this project require either constructing a secondary auxiliary spillway on the west or south side of the dam and/or adding erosion resistant structural elements to the primary auxiliary spillway. Either proposal must get approval by the Office of the State Engineer and must not adversely affect the adjoining golf course.



OBJECTIVES: *Provide/enhance bank protection,
Reduce drainage/flooding issues*

STAKEHOLDERS: AMAFCA, OSE, Tanoan Residents



S. PINO BANK MONITORING AND ENHANCEMENT

DISTRICT	
AMAFCA	4
CITY COUNCIL	4
COUNTY COMMISSION	4
NM SENATE	21
NM HOUSE	27

POTENTIAL AMAFCA FUNDING	
2022	\$50,000
2023	\$50,000
2024	\$50,000
2025	\$50,000
2026	-
2027	-

SPONSORS:



TOTAL COST: \$200,000



OBJECTIVES: *Provide channel stability, Reduce drainage/flooding issues*

STAKEHOLDERS: **AMAFCA, CoA, Albuquerque Academy**

DESCRIPTION

The South Pino Arroyo is an arroyo that mimics a natural channel in the northeast portion of Albuquerque. Grade control structures and bank protection are applied to these types of arroyos to prevent lateral erosion or vertical degradation issues, while maintaining a natural appearance. Bank protection and grade control structures may be built in the South Pino Arroyo if it begins to migrate outside of the designated erosion limits.

SOUTH DIVERSION CHANNEL ACCESS PROJECT

DISTRICT

AMAFCA	1
CITY COUNCIL	2
COUNTY COMMISSION	2
NM SENATE	12
NM HOUSE	10

POTENTIAL AMAFCA FUNDING

2022	-
2023	\$150,000
2024	-
2025	-
2026	-
2027	-



TOTAL COST: **\$150,000**

SPONSORS: 

DESCRIPTION

The South Diversion Channel Access Project will provide better access to the South Diversion Channel, Geneva's Arroyo drop structure, and future water quality facilities. Access to the South Diversion Channel from Gibson Boulevard is problematic due to the proximity of the I-25 on and off ramps and two concrete side inlets that receive drainage from Gibson Boulevard. The project will modify the side inlets and install drive pads and maintenance roads.



OBJECTIVES: *Provide/enhance facility maintenance, Provide/enhance storm water quality*

STAKEHOLDERS: **AMAFCA, MS-4 Partners**

SOUTH DIVERSION CHANNEL FREEBOARD IMPROVEMENTS

DISTRICT

AMAFCA	1
CITY COUNCIL	2
COUNTY COMMISSION	3
NM SENATE	12
NM HOUSE	18

POTENTIAL AMAFCA FUNDING

2022	-
2023	-
2024	-
2025	\$100,000
2026	\$319,000
2027	-

SPONSORS:



TOTAL COST: \$419,000

DESCRIPTION

Improvements to the South Diversion Channel will achieve the additional freeboard necessary to meet federal requirements pertaining to levees. The project will include the construction of a two-foot-high sill wall along the south side of the South Diversion Channel near the APS outlet. The channel will be able to contain the 500-year water surface elevation with run-up and rolling waves along with the required freeboard protection after the necessary improvements have been constructed.

OBJECTIVES: *Provide channel stability, Provide/increase system/facility capacity*

STAKEHOLDERS: **AMAFCA, CoE**

SE VALLEY DMP RIGHT-OF-WAY ACQUISITION

DISTRICT	
AMAFCA	1
CITY COUNCIL	N/A
COUNTY COMMISSION	2
NM SENATE	14
NM HOUSE	10

POTENTIAL AMAFCA FUNDING	
2022	\$250,000
2023	\$250,000
2024	\$250,000
2025	\$250,000
2026	-
2027	-

TOTAL COST: \$1,000,000 | SPONSORS: 

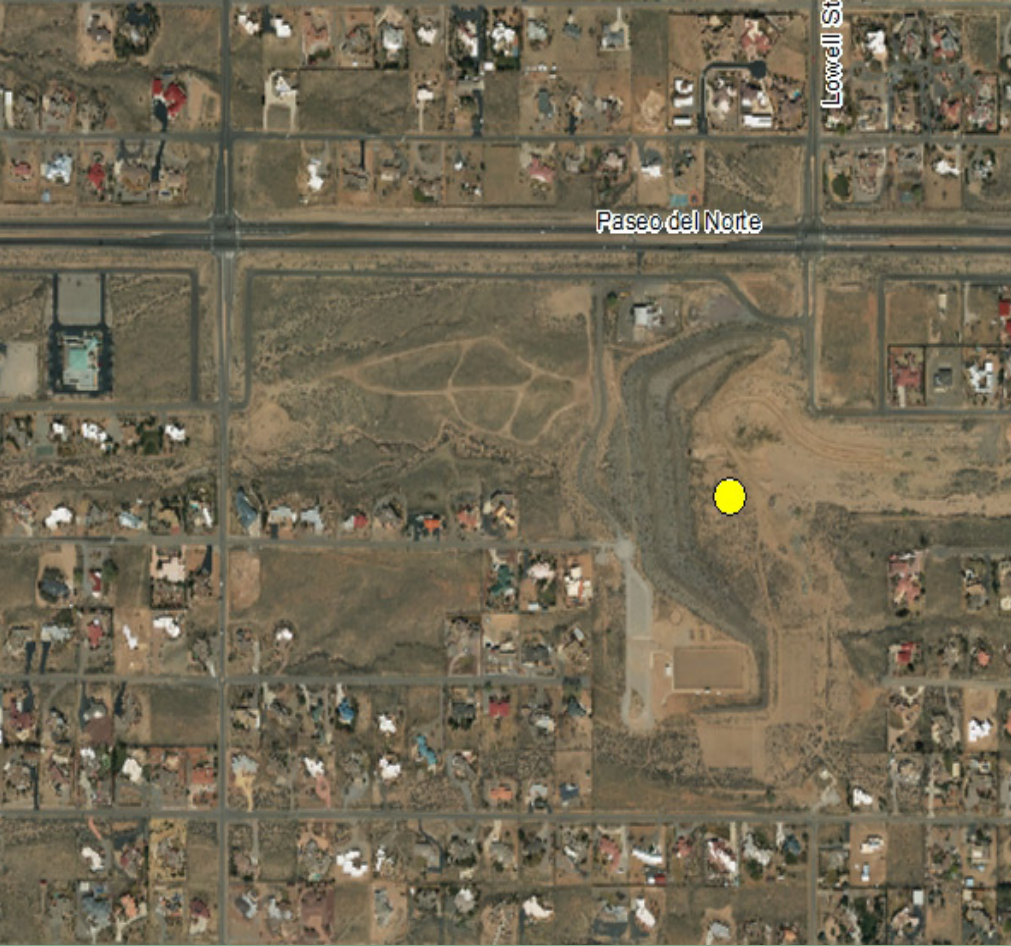
DESCRIPTION

The Southeast Valley Drainage Management Plan identified several locations for ponding within the study area. To build the required infrastructure identified in the DMP, AMAFCA will need to obtain Right-of-Way throughout the southeast valley. Once obtained, new projects can be constructed in these locations. Market conditions, site constraints, and availability are considered when developing a plan for real estate acquisitions.



OBJECTIVES: *Provide/increase system/facility capacity, Reduce drainage/flooding issues*

STAKEHOLDERS: **AMAFCA, BernCo**



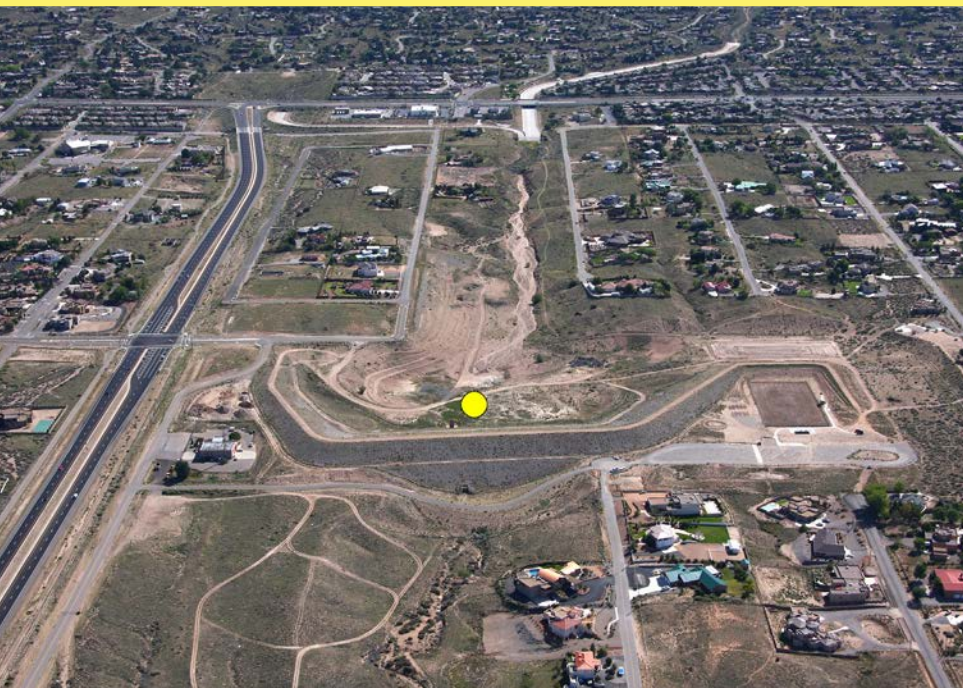
SOUTH DOMINGO BACA DAM EMERGENCY ACTION PLAN

DISTRICT	
AMAFCA	4
CITY COUNCIL	N/A
COUNTY COMMISSION	4
NM SENATE	21
NM HOUSE	31

POTENTIAL AMAFCA FUNDING	
2022	\$50,000
2023	-
2024	-
2025	-
2026	-
2027	-

SPONSORS: 

TOTAL COST: \$50,000



OBJECTIVES: *Provide emergency planning and mapping*

STAKEHOLDERS: **Emergency Responders, OSE, AMAFCA**

DESCRIPTION

An Emergency Action Plan (EAP) is a formal plan required by the Office of the State Engineer Bureau of Dam Safety that identifies potential emergency conditions at a dam and outlines the procedures to follow to minimize property damage and loss of life. This project will include the development and preparation of an EAP and inundation maps for the South Domingo Baca Dam. The EAP will contain procedures to be followed during an emergency, such as structural problems, equipment malfunctions, or natural events such as floods or earthquakes that could approach or exceed the dam design limits. Inundation mapping will outline the evacuation boundaries for the community on a map in the event of a dam failure.

SWINBURNE DAM REGIONAL SEDIMENT FACILITY PHASE 1



DISTRICT

AMAFCA	2, 4
CITY COUNCIL	5
COUNTY COMMISSION	4
NM SENATE	10, 23
NM HOUSE	29, 68

POTENTIAL AMAFCA FUNDING

2022	-
2023	-
2024	-
2025	-
2026	\$300,000
2027	\$2,291,000



TOTAL COST: \$2,591,000

SPONSORS:



DESCRIPTION

Design and entitlement of a water quality pond within the confluence of the two major arroyos entering the dam will create a dam within a dam. A pond capable of holding first flush flows and sediment/debris will make removals easier, less expensive, and allow the remaining area within the dam to be cleaner and better utilized. The project will incorporate Best Management Practices to enhance stormwater quality for flows coming into the Swinburne Dam from the west and main branches of the Calabacillas Arroyo, thus improving the quality of stormwater reaching the river and providing compliance with the EPA MS4 permit. This project will be designed to reduce maintenance costs by concentrating trash and debris at discrete locations while allowing the rest of the facility to be trash-free.



OBJECTIVES: *Provide/enhance facility maintenance, Provide/enhance storm water quality*

STAKEHOLDERS: **MS-4 Partners, AMAFCA, CoA Open Space Division**

TIJERAS GCS 383+84

DISTRICT	
AMAFCA	5
CITY COUNCIL	6
COUNTY COMMISSION	2, 3
NM SENATE	16, 29
NM HOUSE	10, 69

POTENTIAL AMAFCA FUNDING	
2022	\$700,000
2023	\$4,300,000
2024	-
2025	-
2026	-
2027	-

SPONSORS:



TOTAL COST: \$8,000,000

DESCRIPTION

The Tijeras Arroyo is a large water course that bisects Kirtland Air Force Base. The Tijeras Arroyo Facility Plan identified several grade control structures that were needed to provide vertical control of the arroyo. Tijeras Grade Control Structure (GCS) 383+84 is one such structure located on the western boundary of the Air Force Base. Cost sharing with the Air Force will not only provide the required erosion control for the area, but also provide necessary security measures along the area of the water crossing.

OBJECTIVES: *Provide/enhance bank protection, Provide channel stability*

STAKEHOLDERS: AMAFCA, CoA Open Space Division, KAFB

TIJERAS GCS 637+20

DISTRICT	
AMAFCA	5
CITY COUNCIL	9
COUNTY COMMISSION	3,5
NM SENATE	16,19
NM HOUSE	10,20

POTENTIAL AMAFCA FUNDING	
2022	-
2023	\$850,000
2024	\$3,150,000
2025	-
2026	-
2027	-



TOTAL COST: \$6,000,000

SPONSORS: AMAFCA KAFB U.S. AIR FORCE

DESCRIPTION

The Tijeras Arroyo is a large water course that bisects Kirtland Air Force Base. The Tijeras Arroyo Facility Plan identified several grade control structures that were needed to provide vertical control of the arroyo. Tijeras Grade Control Structure (GCS) 637+20 is one such structure located on the northern boundary of the Air Force Base. Cost sharing with the Air Force will not only provide the required erosion control for the area, but also provide necessary security measures along the area of the water crossing.



OBJECTIVES: Provide/enhance bank protection, Provide channel stability

STAKEHOLDERS: AMAFCA, CoA Open Space Division, KAFB

UNSER PONDS

DISTRICT

AMAFCA	2
CITY COUNCIL	5
COUNTY COMMISSION	4
NM SENATE	23
NM HOUSE	29

POTENTIAL AMAFCA FUNDING

2022	-
2023	\$150,000
2024	\$679,000
2025	-
2026	-
2027	-

SPONSORS:



TOTAL COST: \$829,000

DESCRIPTION

The construction of the Unser Ponds will provide additional storage of diverted runoff from the Upper Piedras Marcadas watershed and maximize the use of the Lyon Blvd storm drain system. The diverted runoff will reduce flow to the Piedras Marcadas Dam, which is near capacity. The Unser Ponds will be constructed to reduce sediment and trash resulting in improvements in stormwater quality.

OBJECTIVES: *Provide/increase system/facility capacity, Reduce drainage/flooding issues, Provide/enhance storm water quality*

STAKEHOLDERS: AMAFCA, CoA

UPM POND



DISTRICT

AMAFCA	2
CITY COUNCIL	5
COUNTY COMMISSION	4
NM SENATE	10
NM HOUSE	68

POTENTIAL AMAFCA FUNDING

2022	-
2023	\$150,000
2024	\$622,000
2025	\$400,500
2026	-
2027	-



TOTAL COST: \$1,172,500

SPONSORS:



DESCRIPTION

The future development of the Upper Piedras Marcadas watershed will produce runoff quantities that will exceed the capacity of the existing storm drain in Paseo del Norte Boulevard. A 20-acre-foot detention pond will be constructed to safely discharge runoff to prescribed rate and provide enhanced water quality. The design will take into account near surface basalt outcrops.



OBJECTIVES: *Provide/increase system/facility capacity, Provide/enhance storm water quality*

STAKEHOLDERS: **AMAFCA, NPS, CoA**



UPPER BEAR TRIBUTARY STORM WATER QUALITY FACILITY

DISTRICT

AMAFCA	3
CITY COUNCIL	8
COUNTY COMMISSION	5
NM SENATE	18
NM HOUSE	30

POTENTIAL AMAFCA FUNDING

2022	-
2023	-
2024	-
2025	-
2026	\$200,000
2027	-

SPONSORS:



TOTAL COST: \$400,000

DESCRIPTION

Regional flood control and stormwater quality improvements on the Upper Bear Tributary will increase the efficiency of the storm drainage system in the Bear Arroyo Watershed utilizing a regional Best Management Practice structure to collect trash and debris, reduce peak runoff flows as well as enhance stormwater quality before discharging into the North Diversion Channel and ultimately into the Rio Grande. A secondary water quality benefit will be for the aquifer storage and recovery project given the proximity to the Bear Arroyo direct injection site.

OBJECTIVES: *Provide/enhance storm water quality, Provide/enhance facility maintenance*

STAKEHOLDERS: AMAFCA, CoA

VALLE DE ORO BARR IMPROVEMENTS & WATER QUALITY FACILITY



DISTRICT

AMAFCA	1
CITY COUNCIL	N/A
COUNTY COMMISSION	2
NM SENATE	14
NM HOUSE	10

POTENTIAL AMAFCA FUNDING

2022	\$150,000
2023	\$1,100,000
2024	\$1,250,000
2025	-
2026	-
2027	-

TOTAL COST: **\$2,500,000**

SPONSORS:



DESCRIPTION

The final phase of the master-planned facility, identified in the Southeast Valley Drainage and Storm Water Quality Management Plan, will require the design and construction of a storm water conveyance and water quality infrastructure that will connect to the preceding phases of the project. The Valle de Oro property is part of the National Wildlife Refuge planned by the U.S. Fish and Wildlife Service and this drainage infrastructure is planned to enhance storm water quality and attract wildlife at the refuge. Stormwater quality will be enhanced in the facility by reducing the pollutant load before discharging to the Rio Grande. The stormwater infrastructure will be designed to aesthetically match the surrounding landscape to remain consistent with the vision of the refuge.



OBJECTIVES: *Reduce drainage/flooding issues, Provide/enhance storm water quality*

STAKEHOLDERS: **AMAFCA, MRGCD, BernCo, FWS**



WEST BRANCH CALABACILLAS (QUAIL RANCH) DAM

DISTRICT	
AMAFCA	2
CITY COUNCIL	N/A
COUNTY COMMISSION	1
NM SENATE	23
NM HOUSE	29

POTENTIAL AMAFCA FUNDING	
2022	-
2023	-
2024	-
2025	-
2026	-
2027	\$1,000,000

SPONSORS:



TOTAL COST: \$4,680,000



OBJECTIVES: *Provide/increase system/facility capacity, Reduce drainage/flooding issues*

STAKEHOLDERS: AMAFCA, OSE

DESCRIPTION

This detention facility in the Upper West Branch Calabacillas Watershed will control flows in the West Branch of the Calabacillas Arroyo to historic rates, provide for reduction in sediment transport, and be designed for possible multi-use opportunities. Construction of the facility will allow for upstream development without impacting existing downstream infrastructure. This facility will also allow for reduced sizing of downstream detention facilities.

WESTGATE DAM EMERGENCY ACTION PLAN

DISTRICT

AMAFCA	2
CITY COUNCIL	N/A
COUNTY COMMISSION	2
NM SENATE	14
NM HOUSE	26

POTENTIAL AMAFCA FUNDING

2022	\$50,000
2023	-
2024	-
2025	-
2026	-
2027	-

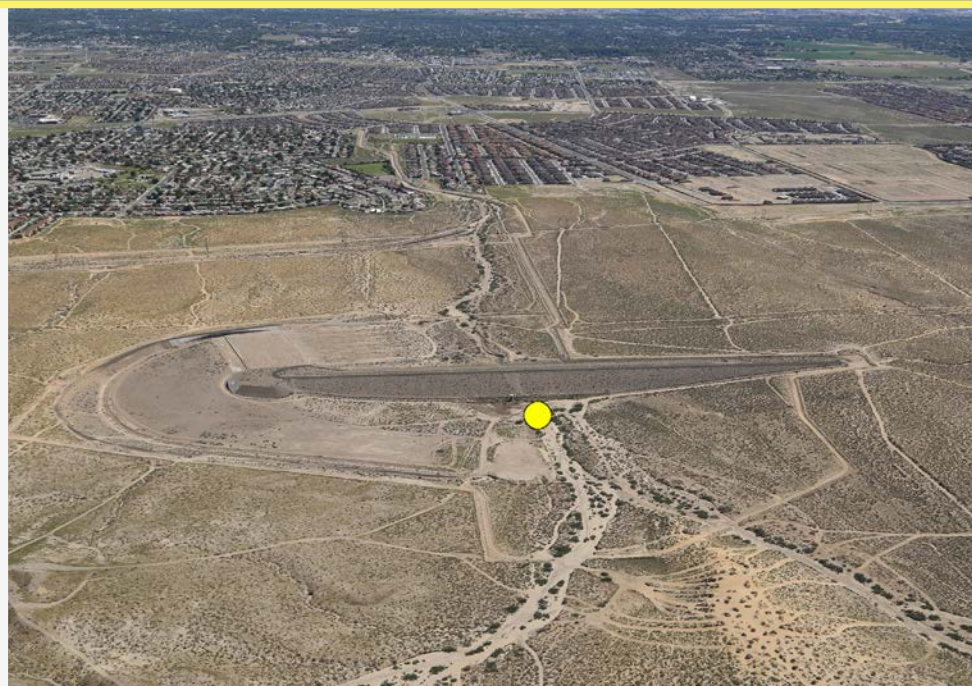


TOTAL COST: \$50,000

SPONSORS: AMAFCA

DESCRIPTION

An Emergency Action Plan (EAP) is a formal plan required by the Office of the State Engineer Bureau of Dam Safety that identifies potential emergency conditions at a dam and outlines the procedures to follow to minimize property damage and loss of life. This project will include the development and preparation of an EAP and inundation maps for Westgate Dam. The EAP will contain procedures to be followed during an emergency, such as structural problems, equipment malfunctions, or natural events such as floods or earthquakes that could approach or exceed the dam design limits. Inundation mapping will outline the evacuation boundaries for the community on a map in the event of a dam failure.



OBJECTIVES: *Provide emergency planning and mapping*

STAKEHOLDERS: Emergency Responders, OSE, AMAFCA



ZUNI-PENN POND

DISTRICT

AMAFCA	5
CITY COUNCIL	6
COUNTY COMMISSION	3
NM SENATE	17
NM HOUSE	21

POTENTIAL AMAFCA FUNDING

2022	\$400,000
2023	\$1,500,000
2024	-
2025	-
2026	-
2027	-

SPONSORS:



TOTAL COST: \$1,900,000

DESCRIPTION

A surge pond near the intersection of Zuni Road and Pennsylvania Street will provide temporary storage for stormwater within the Dallas Storm Drain system. Adding this relief provides the capacity needed to prevent water from traveling past the existing infrastructure in moderate sized rain events. Construction of this upper watershed facility will allow for reduced facility needs downstream and allow for development along the Central Blvd. corridor.

OBJECTIVES: *Provide/increase system/facility capacity, Reduce drainage/flooding issues, Remove floodplain*

STAKEHOLDERS: AMAFCA, CoA





PROJECT FUNDING

The following Project Spreadsheet is a snapshot of AMAFCA's intended timeframe to implement projects in the next six years. It is intended to balance with the **bond sales and distribute flood-protection projects in all** of the various basins in the metropolitan area. It has been coordinated with the schedules of other agencies for the purpose of possible joint funding in order to make the projects more successful. Timeframes can be adjusted as other agency schedules change or projects are re-prioritized.

AGENCY LEGEND

AGENCY NAME	ABBREVIATION
Albuquerque Metropolitan Arroyo Flood Control Authority	AMAFCA
Albuquerque Public Schools	APS
Bernalillo County	BernCo
Central New Mexico Community College	CNM
City of Albuquerque	CoA
Environmental Protection Agency	EPA
Federal Emergency Management Agency	FEMA
Fish and Wildlife Service	FWS
Kirtland Air Force Base	KAFB
Middle Rio Grande Conservancy District	MRGCD
National Park Service	NPS
New Mexico Office of the State Engineer	OSE
New Mexico Department of Transportation	NMDOT
Southern Sandoval County Arroyo Flood Control Authority	SSCAFCA
U.S. Air Force	USAF
U.S. Army Corps of Engineers	COE
University of New Mexico	UNM
Village of Los Ranchos	VLR

Project	Green Bond	Lead Agency	Other Agencies	Total Amount
4th Street and Paseo Del Norte Area Drainage Project		BC	AMAFCA, VLR	\$3,000,000.00
Agency and Area Wide FEMA Floodplain Removal		AMAFCA	BC, COA	\$1,000,000.00
Alameda Drain Water Quality Structures	GB	AMAFCA	BC, COA, VLR	\$800,000
Alcalde Pump Station Water Quality		COA	AMAFCA	\$600,000.00
AMAFCA Office Improvements		AMAFCA		\$665,000.00
AMAFCA Telemetry		AMAFCA		\$400,000.00
Amole Arroyo Modification		AMAFCA		\$950,000.00
Amole Dam EAP		AMAFCA		\$50,000.00
Amole Dam Gravity Outlet (Phase II)		AMAFCA		\$671,000.00
Barelas Pump Station Outfall SWQ Improvements	GB	AMAFCA	COA	\$600,000.00
Borrega Dam Upgrade		AMAFCA		\$923,000.00
Calabacillas Arroyo Bank Monitoring & Enhancement 1		AMAFCA		\$225,000.00
Calabacillas Arroyo Bank Monitoring & Enhancement 2		AMAFCA		\$225,000.00
Calabacillas Arroyo Bank Monitoring & Enhancement 3		AMAFCA		\$225,000.00
Calabacillas Arroyo Bank Monitoring & Enhancement 4		AMAFCA		\$225,000.00
Calabacillas GCS 3a1 and Bank Protection		AMAFCA	COA	\$1,323,000.00
Calabacillas MB GCS 2 Extension		AMAFCA		\$1,200,000.00
CNM Grade Control Structures		AMAFCA	CNM	\$3,600,000.00
Corrales Main Diversion		AMAFCA	MRGCD	\$1,200,000.00
Dallas Surge Pond		COA	AMAFCA	\$800,000.00
Gibson/San Mateo Floodplain Re-study		AMAFCA	COA	\$100,000.00
Gibson-San Mateo Regional Drainage Facility	GB	COA	AMAFCA	\$1,200,000.00
Glendale Storm Drain		AMAFCA		\$2,627,000.00
Glenrio Loma Hermosa Storm Drain		COA	AMAFCA	\$10,126,000.00

AMAFCA Funding	CY 2022	CY 2023	CY 2024	CY 2025	CY 2026	CY 2027
\$1,750,000.00	\$1,750,000					
\$300,000.00	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
\$400,000.00			\$200,000	\$200,000		
\$300,000.00						\$300,000
\$665,000.00	\$665,000					
\$400,000.00					\$400,000	
\$950,000.00	\$100,000	\$350,000	\$500,000			
\$50,000.00	\$50,000					
\$671,000.00		\$150,000	\$521,000			
\$300,000.00						\$300,000
\$923,000.00	\$150,000	\$773,000				
\$225,000.00		\$75,000	\$75,000	\$75,000		
\$225,000.00		\$75,000	\$75,000	\$75,000		
\$225,000.00		\$75,000	\$75,000	\$75,000		
\$225,000.00		\$75,000	\$75,000	\$75,000		
\$1,323,000.00		\$150,000	\$1,173,000			
\$1,200,000.00	\$1,200,000					
\$1,200,000.00	\$1,200,000					
\$1,200,000.00		\$250,000	\$950,000			
\$400,000.00	\$400,000					
\$50,000.00	\$50,000					
\$900,000.00	\$900,000					
\$1,827,000.00	\$100,000	\$150,000	\$150,000	\$1,427,000		
\$500,000.00	\$500,000					

Project	Green Bond	Lead Agency	Other Agencies	Total Amount
Grantline WQ Lining		AMAFCA		\$835,000.00
Hamilton Dam	GB	AMAFCA		\$4,036,000.00
Hubbell Dam EAP		AMAFCA		\$50,000.00
Hubbell Dam Expansion	GB	AMAFCA		\$3,122,000.00
John B. Robert Dam EAP		AMAFCA		\$50,000.00
Karsten Area Restudy		AMAFCA		\$100,000.00
Kinney Dam EAP		AMAFCA		\$50,000.00
La Cueva Arroyo Hydraulic Study		AMAFCA	BC, COA	\$500,000.00
Ladera Dam 1 Upgrade		AMAFCA		\$1,017,000.00
Ladera Dam 5 Diversion		AMAFCA		\$1,651,000.00
Ladera Dams 10,12,14,15 EAP		AMAFCA		\$250,000.00
Las Ventanas Dam WQ Upgrades	GB	AMAFCA		\$525,000.00
Max's Inlet Storm Water Quality Up-grade	GB	AMAFCA		\$340,000.00
McCoy Diversion Channel A		AMAFCA		\$4,053,000.00
McEwen Pond GI/LID Improvements	GB	BC	AMAFCA	\$100,000.00
Miscellaneous Construction Projects		AMAFCA		\$3,700,700.00
Miscellaneous Real Estate Acquisition		AMAFCA		\$1,200,000.00
NDC Overlay		AMAFCA		\$9,000,000.00
North Albuquerque Acres Arroyos Hydraulic Analyses		AMAFCA	BC, COA	\$600,000.00
North Diversion Channel/Indian School WQ Pond	GB	AMAFCA		\$3,850,000.00
North Domingo Baca Dam EAP		AMAFCA		\$50,000.00
North Domingo Baca Dam Expansion		AMAFCA	OSE	\$3,801,000.00
North Geologic Window Dam	GB	AMAFCA		\$4,084,000.00
North Johniece Storm Drain		BC	AMAFCA	\$3,764,000.00

AMAFCA Funding	CY 2022	CY 2023	CY 2024	CY 2025	CY 2026	CY 2027
\$835,000.00	\$835,000					
\$4,036,000.00					\$926,000	\$3,110,000
\$50,000.00	\$50,000					
\$3,122,000.00	\$100,000	\$100,000	\$302,000	\$2,620,000		
\$50,000.00	\$50,000					
\$100,000.00	\$100,000					
\$50,000.00	\$50,000					
\$200,000.00	\$100,000	\$100,000				
\$1,017,000.00					\$150,000	\$867,000
\$1,651,000.00	\$651,000	\$1,000,000				
\$250,000.00		\$250,000				
\$525,000.00				\$525,000		
\$340,000.00						\$340,000
\$4,053,000.00			\$250,000	\$3,803,000		
\$25,000.00	\$25,000					
\$3,700,700.00	\$1,000,000	\$700,000	\$500,700	\$500,000	\$500,000	\$500,000
\$1,200,000.00	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000
\$9,000,000.00	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000
\$300,000.00	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
\$3,850,000.00		\$200,000	\$3,650,000			
\$50,000.00	\$50,000					
\$3,801,000.00	\$450,000	\$3,351,000				
\$4,084,000.00				\$225,000	\$100,000	\$3,759,000
\$1,882,000.00				\$150,000	\$1,732,000	

Project	Green Bond	Lead Agency	Other Agencies	Total Amount
Paradise West Dam	GB	AMAFCA		\$1,187,000.00
Pino Dam Auxiliary Spillway Modifications		AMAFCA		\$3,640,000.00
S Pino Bank Monitoring & Enhancement	GB	AMAFCA		\$200,000.00
SDC Access Project		AMAFCA		\$150,000.00
SDC Freeboard Improvements		AMAFCA		\$419,000.00
SE Valley DMP Right-of-Way Acquisition		AMAFCA		\$1,000,000.00
South Domingo Baca Dam EAP		AMAFCA		\$50,000.00
Swinburne Dam Regional Sediment Facility Ph 1	GB	AMAFCA		\$2,591,000.00
Tijeras GCS 383+84		AMAFCA	KAFB	\$8,000,000.00
Tijeras GCS 637+20		AMAFCA	KAFB	\$6,000,000.00
Unser Ponds		AMAFCA	COA	\$829,000.00
UPM Pond	GB	AMAFCA	COA	\$1,172,500.00
Upper Bear Tributary Storm Water Quality Facility	GB	AMAFCA	COA	\$400,000.00
VDO Barr Improvements & WQ Facility	GB	AMAFCA		\$2,500,000.00
West Branch Calabacillas (Quail Ranch) Dam	GB	AMAFCA		\$4,680,000.00
Westgate Dam EAP		AMAFCA		\$50,000.00
Zuni-Penn Pond	GB	AMAFCA	COA	\$1,900,000.00
			Grand Total	\$114,232,200.00

AMAFCA Funding	CY 2022	CY 2023	CY 2024	CY 2025	CY 2026	CY 2027
\$1,187,000.00				\$200,000	\$987,000	
\$3,640,000.00				\$250,000	\$2,570,000	\$820,000
\$200,000.00	\$50,000	\$50,000	\$50,000	\$50,000		
\$150,000.00		\$150,000				
\$419,000.00				\$100,000	\$319,000	
\$1,000,000.00	\$250,000	\$250,000	\$250,000	\$250,000		
\$50,000.00	\$50,000					
\$2,591,000.00					\$300,000	\$2,291,000
\$5,000,000.00	\$700,000	\$4,300,000				
\$4,000,000.00		\$850,000	\$3,150,000			
\$829,000.00		\$150,000	\$679,000			
\$1,172,500.00		\$150,000	\$622,000	\$400,500		
\$200,000.00					\$200,000	
\$2,500,000.00	\$150,000	\$1,100,000	\$1,250,000			
\$1,000,000.00						\$1,000,000
\$50,000.00	\$50,000					
\$1,900,000.00	\$400,000	\$1,500,000				
\$86,269,200.00	\$13,976,000	\$18,124,000	\$16,297,700	\$12,800,500	\$9,984,000	\$15,087,000





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