

## Drainage/Flood Control System

The city's drainage system consists of local and regional conveyance, detention, and storm water control facilities that provide protection from storms up to the 100-year event. The design storm is the 100-year, 24-hour event for detention facilities and the 100-year, 6-hour event for conveyances. The level of service required by current city code is to provide an adequate conveyance system to the farthest upstream property located within the city boundary.

There are five distinct, natural arroyo systems or watersheds within the city limits which flow from higher elevations in the northwest toward the lower elevations in the southeast: La Venada, La Barranca, Los Montoyas, Calabacillas and Black Arroyo. Smaller and contributing watersheds, and those located within the city's urban centers include: Rainbow Tributary Watershed, NM 528 Watershed, Rio Rancho Urban Center, and the Unnamed Watershed located between La Venada and La Barranca watersheds. Lastly, two recently annexed, though yet to be developed areas of the city know as Paradise West and Quail Ranch are within the jurisdiction of the Albuquerque Metropolitan Area Flood Control Authority (AMAFCA).

The Southern Sandoval County Arroyo Flood Control Authority (SSCAFCA) has jurisdiction over all drainage and flood control facilities in the Sandoval County portion of Rio Rancho, while the city acts as SSCAFCA's designee for minor facilities that have drainage flows less than 500 cubic feet per second (cfs). Since its inception in 1990, SSCAFCA has constructed and now maintains more than 20 regional drainage and flood control facilities within the city limits. SSCAFCA capital projects and maintenance operations are supported by a \$.075 property tax mill levied per \$1,000 of assessed value of residential property and non-residential property.

As categorized in the Infrastructure and Capital Improvement Plan (ICIP), the drainage system does not refer to drainage infrastructure associated with roadway projects, but rather consists of stand-alone drainage, flood control, and erosion control projects the city will build, own, and maintain. A comprehensive inventory of local drainage

improvements does not currently exist due to data deficiencies in the city's Geographic Information System (GIS). In Fiscal Year 2013 the city commenced a five year plan for upgrading its GIS. A complete vetting of drainage data for accuracy to expose missing data and collection of missing data is required to achieve a complete and thorough inventory of the local drainage system.

## Current Capacity, Condition, and Challenges

According to the city's Comprehensive Plan published in November 2010, "...serious problems with drainage, erosion, and flood control persist due to chronic underfunding of drainage projects." Because large areas of the city were platted on a bulk basis with no subdivision improvements such as paved streets or storm drains severe drainage problems during heavy rain events is an imminent danger in many parts of the City. Significant deficiencies exist in all sections of the City, particularly in the more populated areas east of Unser Blvd. Also, as more development occurs further up in the watersheds to the north and west of Unser Blvd., the risk of flood and property damage increases.

To date, the approach taken toward drainage/floodplain management within the city's jurisdiction has been two fold. First, the city has developed and enforces various ordinances governing flood prevention, erosion control and storm drainage, and the creation of subdivisions. Currently, the city has five basic ordinances governing development and the associated drainage infrastructure required. These ordinances include Chapters 150, 152, 153, 154, and 155 of the Municipal Code. Technical design standards, criteria, and guidelines have also been established jointly with SSCAFCA and incorporated in the city's Development Process Manual (DPM) to facilitate the planning, design, construction, and operation of public and private drainage control, flood control, and erosion control within the community. Despite these regulatory tools, the practice of the city has been to not enforce drainage requirements on areas with premature plating (i.e. those areas that were subdivided before the creation of drainage ordinances). The second part of the approach is to identify problem areas through city staff assessments of risk and/or citizen complaints.

Projects are then defined, designed, and constructed to address drainage infrastructure needs with the caveat of having sufficient funds available. As for floodplain management, the second part to the approach is the in-house identification of areas susceptible to flooding that are not identified by FEMA and the commissioning of detailed studies used to more accurately identify the flood potential of areas identified by FEMA as “Approximate A Zones.”

### **Infrastructure and Capital Improvement Plan Development**

The city’s 2009 Strategic Plan, Goal 1, Strategy H establishes the goal to “enhance existing and explore new tools for addressing the drainage needs of the City.” Potential tools identified by staff include a drainage/flood plain master plan and individual watershed management plans.

Currently, a drainage/floodplain management master plan does not exist for the City. A drainage/floodplain management master plan would be intimately integrated into the general development plan as it would need to address specific types of development. As specific area plans are developed for the City, drainage facility plans could be developed assuming that the specific area plans were created based on watershed boundaries and sufficient funds are available for development of such plans. Funds are usually limited therefore, before drainage facility plans may be developed there needs to be a sufficient number of specific area plans in existence to identify the type of proposed development within the watershed.

In lieu of a drainage/floodplain master plan and drainage facility plans for individual drainage basins, city staff has developed in house assessments of required improvements to remedy existing deficiencies in various areas of the city. city staff also works cooperatively with SSCAFCA to identify areas and projects of critical need as well as review and approve drainage solutions for newly developed land within the city.

### **Developer Contributions**

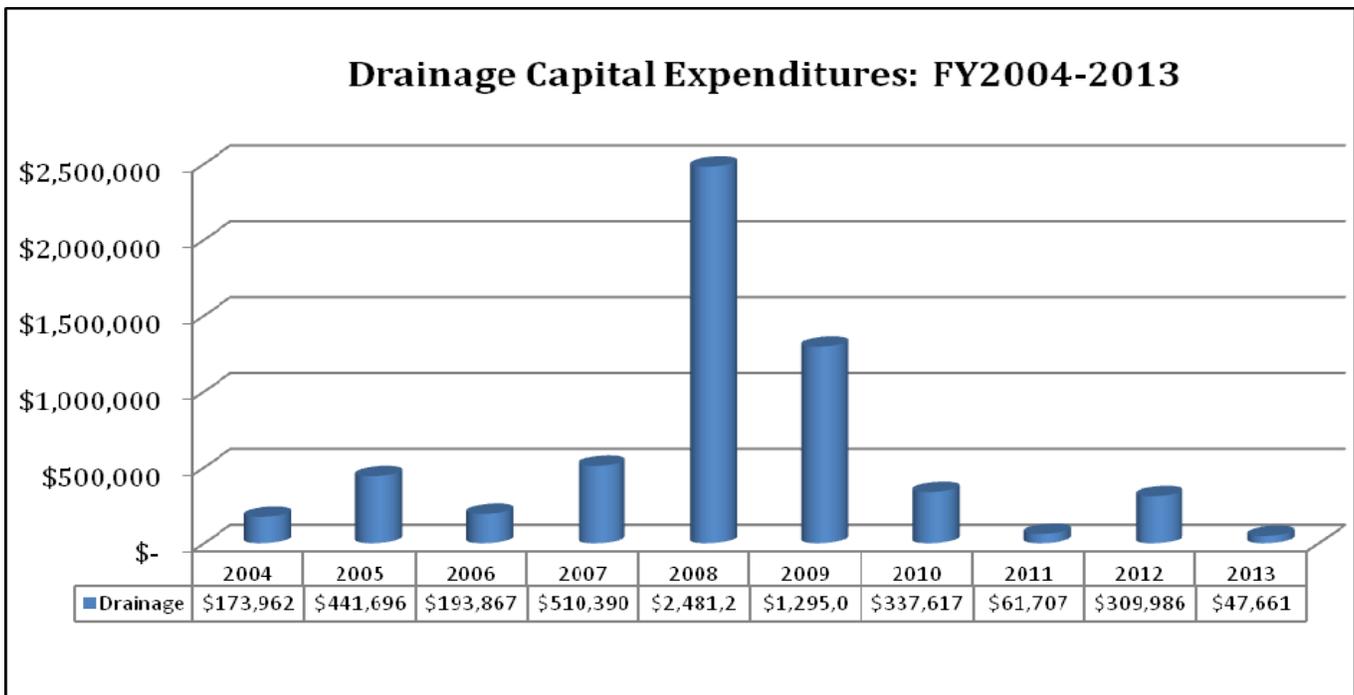
The city’s Impact Fee Plan and Ordinance, adopted in 2005, requires development in obsolete platted areas to pay drainage impact fees valued at \$4,465 for single family homes, \$1,191 for multi-family units, and \$1,786 per thousand square feet of non-residential building space. These funds are used to construct system level improvements in the city wide service area. In contrast, developers that assemble various properties and re-plate these properties for some further development are required by means of the aforementioned ordinances to construct all required drainage infrastructure. Drainage impact fees are not collected from this type of development. Dedication of drainage infrastructure to the city is typically restricted to surface street improvements, associated underground drainage pipeline, and local area detention ponds. Regional drainage facilities constructed as part of approved subdivisions and non-residential development areas are dedicated to SSCAFCA whose is responsible for maintenance. Some regional and local facilities are built for multi-purpose use as park land subject to the city’s park system objectives and design standards. The most recently example is the agreement for construction of the 3.5 acre Gateway Pond at the intersection of 22<sup>nd</sup> Avenue in 19<sup>th</sup> Street near the Petroglyph Medical Plaza in southern Rio Rancho.

**Funding Sources**

Drainage capital expenditures are supported by various sources. The most prominent among them include:

- General Fund direct expenditures and transfers
- Drainage impact fees
- Intergovernmental grants

Drainage capital expenditures are down dramatically from their 10 year peak of \$2.5 million in Fiscal Year 2008. Significant expenditures for drainage infrastructure in Fiscal Years 2008 and 2009 were related to remediation and repair of channels and arroyos to their pre-flood condition after severe flooding throughout the city in the Summer of 2006. Funding for remediation projects include federal and state grants as well as general operating fund resources. In recent years, drainage impact fees have been the major funding source for the modest drainage infrastructure capital program. The city has also funded significant drainage infrastructure since Fiscal Year 2007 via Special Assessment Districts (SADs).

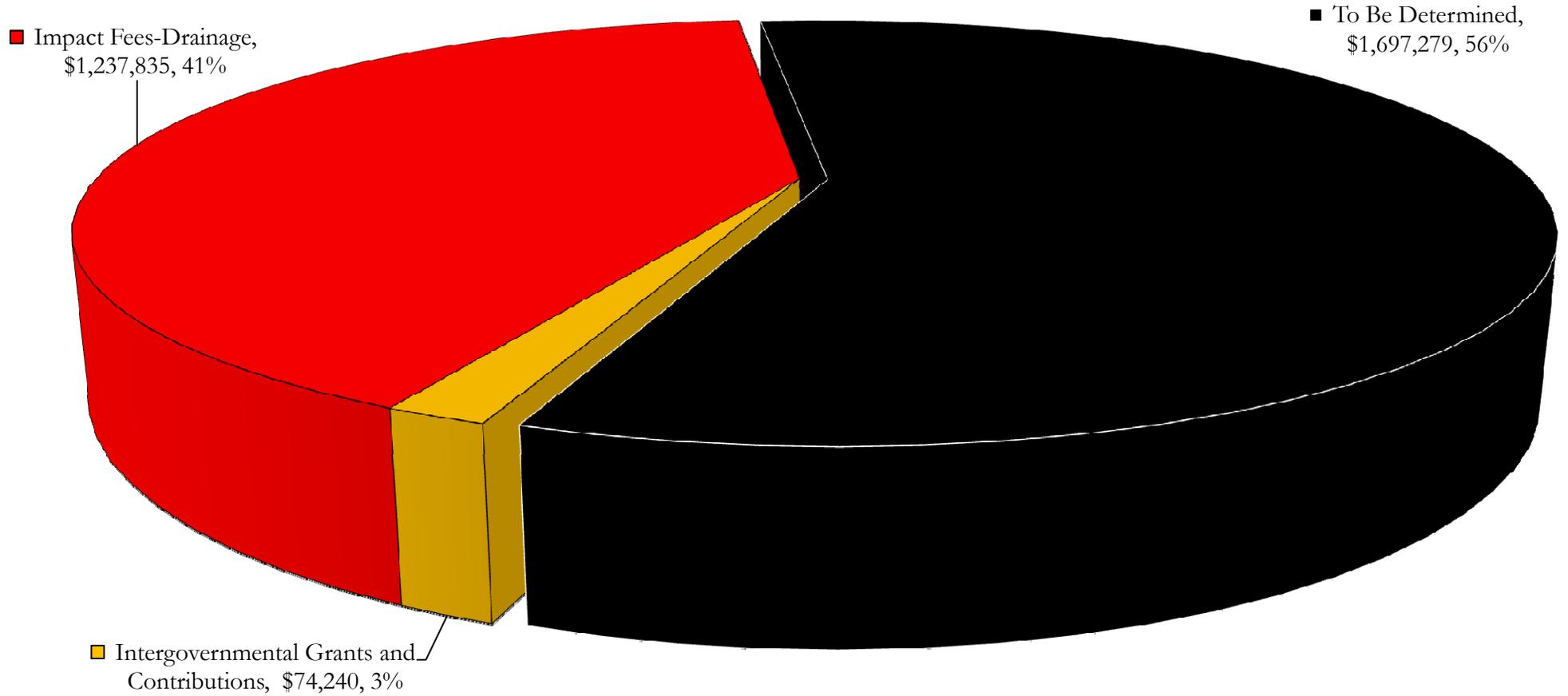




2014-2019 Infrastructure and Capital Improvement Plan  
**Drainage**

FY2014-FY2019: ICIP Summary

Rank Priority	Project No.	Project Title	Project to Date	2014 Budget	2014 Additional Spending Anticipated	2014 Total	2015	2016	2017	2018	2019	Funding Requested: FY14-FY19	Funding Source	Funding Source	Funding Source	Funding Source	Total Funding
													(A)	(B)	(C)	(D)	(A)+(B)+(C)+(D)
1	PI0638	Los Milagros Channel Improvements	\$ 70,424	\$ -	\$ 252,339	\$ 252,339	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 252,339	Impact Fees- Drainage				\$ 252,339
2	PW1439	IPE Drainage Infrastructure for Hwy 528 Widening	\$ 44,680	\$ -	\$ 44,680	\$ 521,986	\$ 466,667	\$ 466,667	\$ -	\$ -	\$ -	\$ 1,500,000	Impact Fees- Drainage	To Be Determined			\$ 1,500,000
3	PW1440	City Center Drainage Facility Plan	\$ 55,000	\$ -	\$ 55,000	\$ 110,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 110,000	Contributions, Donations and Sponsorships	Impact Fees- Drainage			\$ 110,000
4	N/A	Christopher Point Pond Improvements	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 44,680	\$ 30,320	\$ 75,000	55,000 Impact Fees- Drainage	55,000			\$ 75,000
5	N/A	Grey Hawk Pond Rework	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25,000	\$ 25,000	Impact Fees- Drainage				\$ 25,000
6	PI0835	Redriver Watershed (Monterey/Granada Drainage Improvements	\$ 221,912	\$ -	\$ -	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000	25,000 Impact Fees- Drainage	To Be Determined			\$ 1,000,000
<b>TOTALS</b>													\$ 421,058	\$ 578,942			\$ 2,962,339



	FY14	FY15	FY16	FY17	FY18	FY19	TOTAL
Intergovernmental Grants and Contributions	\$ 55,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 55,000
Impact Fees-Drainage	\$ 352,019	\$ 532,697	\$ 111,620	\$ 113,724	\$ 44,680	\$ 55,320	\$ 1,210,060
To Be Determined	\$ -	\$ 989,289	\$ 355,047	\$ 352,943	\$ -	\$ -	\$ 1,697,279
<b>TOTAL</b>	<b>\$ 407,019</b>	<b>\$ 1,521,986</b>	<b>\$ 466,667</b>	<b>\$ 466,667</b>	<b>\$ 44,680</b>	<b>\$ 55,320</b>	<b>\$ 2,962,339</b>

<b>DRAINAGE</b>			
<b>PROJECTS UNDER CONSIDERATION</b>			
<b>Rank</b>	<b>Project Name</b>	<b>Fiscal Year(s)</b>	<b>Project Estimate</b>
7	Montebella Flood Control Facility	2015-2019	\$ 1,125,000
8	Alberta Watershed Phase II	2015-2019	\$ 1,000,000
9	City Center Detention Pond Land	2015-2019	\$ 2,875,000
10	Guadalajara Basin Improvements Phase II	2015-2019	\$ 1,000,000
11	Alberta Watershed Phase III	2015-2019	\$ 1,000,000
12	WWTP#3 Channel Stabilization	2015-2019	\$ 1,950,000
13	Chamisa Greens Detention Pond	2015-2016	\$ 100,000
	<b>TOTAL</b>		<b>\$ 9,050,000</b>

**1. PROJECT INFORMATION**

Project Title	Los Milagros Channel Improvements	Requesting Department	Dept. of Public Work/Engineering	Department Rank Priority No.	1
Project Category	Drainage	CIP Year	FY2006	Project No.:	PI0638
Estimated Useful Life	Greater than 25 Years	District Location	Council District 3	Project Request Status	Revised Project Request

**2. PROJECT DESCRIPTION AND SCOPE**

The project includes channel improvements from the outlet of the Los Milagros Subdivision pond across Gemini Rd, across Chessman Rd to the Los Montoyas Arroyo. Construction will include channel grading and shaping, drop structures, culvert road crossings with concrete head walls, and outlet erosion protection.

**3. PROJECT JUSTIFICATION**

The project is required to protect road crossings and allow development of the area. The permit issued by the Army Corps of Engineers (USACoE) under Section 404 of the Clean Water Act expired in 2011 and an extended permit will be required. The permit is required for any work done in a "tributary or waterway of the United States." Without construction of drainage improvements prior to the expiration of existing permits, development in the area cannot proceed.

**4. PROJECT HISTORY AND STATUS**

USACoE permits were issued in 2006. The project was not funded and completed within the 2011 permits and an extended permit is required upon availability of funding for construction. To help finance the project, a Special Condition for Building Permit Approval was filed with Sandoval County on February 11, 2005. The special condition required a total of 41 lots along Chessman Dr., Istle Rd., Garden Rd., Gemini Rd., and Holly Ct. to either build a grade control structure in accordance with City requirements or contribute a sum of \$7,275 for such drainage construction. To date, the City has collected \$42,650 in contribution revenue. Due to the City's lack of funding for the ultimate drainage solution, construction of temporary grading improvements were completed using infrastructure fund capital funds in June 2010 at a total cost of \$22,763.05. Design of the ultimate drainage solution commenced in Spring 2013 and construction is anticipated to follow in Summer or Fall 2013.

**5. CAPITAL COSTS**

PHASE	SOURCE(S) OF COST INFO	PRIOR YEARS	FY14	FY15	FY16	FY17	FY18	FY19	TOTAL
Planning and Feasibility									\$ -
Pre Design and Env. Review									\$ -
Land Acq./ROW									\$ -
Design and Specifications	Recent City project	\$ 48,248	\$ 7,876						\$ 56,124
Construction	Recent City project	\$ 22,176	\$ 200,000						\$ 222,176
Construction Management	Other		\$ 44,464						\$ 44,464
Equipment/ Vehicle									\$ -
Other									\$ -
<b>TOTAL</b>		<b>\$ 70,424</b>	<b>\$ 252,339</b>	<b>\$ -</b>	<b>\$ 322,763</b>				

**6. PROPOSED SOURCES OF FUNDING**

REVENUE SOURCE	EXPENDITURE FUND	PRIOR YEARS	FY14	FY15	FY16	FY17	FY18	FY19	TOTAL
Contributions, Donations and Sponsorships	305-Infrastructure Fund	\$ 42,649	\$ (0)						\$ 42,649
Impact Fees- Drainage	355-Impact Fees Drainage	\$ 27,775	\$ 252,339						\$ 280,114
									\$ -
<b>TOTAL</b>		<b>\$ 70,424</b>	<b>\$ 252,339</b>	<b>\$ -</b>	<b>\$ 322,763</b>				

**1. PROJECT INFORMATION**

Project Title	Industrial Park East Drainage Infrastructure for 528 Widening	Requesting Department	Dept. of Public Work/Engineering	Department Rank Priority No.	2
Project Category	Drainage	CIP Year	FY2014	Project No.:	PW1439
Estimated Useful Life	Greater than 25 Years	District Location	Council District 4	Project Request Status	Revised Project Request

**2. PROJECT DESCRIPTION AND SCOPE**

The project involves the design and construction of a drainage system to transport storm water run off from Hwy 528 to the Tortugas Arroyo on the east side of the Industrial Park.

**3. PROJECT JUSTIFICATION**

The NM DOT is widening Hwy 528 from Southern Blvd to Northern Blvd. As a result of this widening a portion of the ponding that currently exists on the west side of Hwy 528 will be eliminated. This in addition to the existing drainage issues within Industrial Park East (IPE) require that the required drainage infrastructure be constructed at the same time as the road widening.

**4. PROJECT HISTORY AND STATUS**

Drainage through IPE has been a long standing problem. There have even been a number of attempts at legal action as a result of the drainage issues. Several studies have been completed in the IPE area and they all agree that there is an actual issue that needs to be addressed. Given the lack of available funds there was an attempt to include the IPE in a Special Assessment District (SAD) to address the issue. As a result of property owner opposition the SAD attempt failed. The NMDOT is showing a schedule for construction of the Hwy 528 widening to occur in 2017 to increase the service level of the road as a result of increased development. As a result of this road improvement additional drainage infrastructure will be required. Therefore, it is necessary to have sufficient funding available for the City to construct the required drainage infrastructure prior to or concurrent with the NMDOT project.

**5. CAPITAL COSTS**

PHASE	SOURCE(S) OF COST INFO	PRIOR YEARS	FY14	FY15	FY16	FY17	FY18	FY19	TOTAL
Planning and Feasibility									\$ -
Pre Design and Env. Review									\$ -
Land Acq./ROW									\$ -
Design and Specifications	Quotes		\$ 44,680	\$ 55,320					\$ 100,000
Construction	Other			\$ 400,000	\$ 400,000	\$ 400,000			\$ 1,200,000
Construction Management	Other			\$ 66,666	\$ 66,667	\$ 66,667			\$ 200,000
Equipment/ Vehicle									\$ -
Other									\$ -
<b>TOTAL</b>		\$ -	\$ 44,680	\$ 521,986	\$ 466,667	\$ 466,667	\$ -	\$ -	\$ 1,500,000

**6. PROPOSED SOURCES OF FUNDING**

REVENUE SOURCE	EXPENDITURE FUND	PRIOR YEARS	FY14	FY15	FY16	FY17	FY18	FY19	TOTAL
Impact Fees- Drainage To Be Determined			\$ 44,680	\$ 111,639	\$ 111,620	\$ 113,724			\$ 381,663
				\$ 410,347	\$ 355,047	\$ 352,943			\$ 1,118,337
									\$ -
									\$ -
<b>TOTAL</b>		\$ -	\$ 44,680	\$ 521,986	\$ 466,667	\$ 466,667	\$ -	\$ -	\$ 1,500,000

**1. PROJECT INFORMATION**

Project Title	City Center Drainage Facility Plan	Requesting Department	Dept. of Public Work/Engineering	Department Rank Priority No.	3
Project Category	Drainage	CIP Year	FY2014	Project No.:	PW1440
Estimated Useful Life	Greater than 25 Years	District Location	Multiple Districts	Project Request Status	New Project Request

**2. PROJECT DESCRIPTION AND SCOPE**

This project is a cooperative effort between the City of Rio Rancho (CoRR) and the Southern Sandoval County Arroyo Flood Control Authority (SSCAFCA). The project will result in the creation of a facility plan that provides the development requirements and responsibilities for all development in the upper portion of the La Barranca watershed.

**3. PROJECT JUSTIFICATION**

The majority of the La Barranca watershed is either undeveloped or sparsely developed. Allowing the watershed to develop in an uncontrolled manner will result in similar problematic drainage issues as currently exist in a large number of areas around the City. This plan is imperative for the determination of what major storm drainage and flood control facilities are necessary for a well planned development of the La Barranca watershed.

**4. PROJECT HISTORY AND STATUS**

With the development of City Center, CNM, UNM and the Sandoval County Regional Medical Center, the City has already begun to see the need for a master drainage facility plan for the La Barranca watershed. As more and more development is realized in this area storm water management will become of utmost importance. Some simple studies have already been performed in portions of the watershed but they all have the major flaw of not having a general controlled approach to management of the La Barranca watershed. The City of Rio Rancho is currently developing a memorandum of understanding with SSCAFCA for funding and requirements of the City Center Drainage Facility Plan. City funding will come from Drainage Impact Fees.

**5. CAPITAL COSTS**

PHASE	SOURCE(S) OF COST INFO	PRIOR YEARS	FY14	FY15	FY16	FY17	FY18	FY19	TOTAL
Planning and Feasibility									\$ -
Pre Design and Env. Review									\$ -
Land Acq./ROW									\$ -
Design and Specifications	Cost Consultant		\$ 110,000						\$ 110,000
Construction									\$ -
Construction Management									\$ -
Equipment/ Vehicle									\$ -
Other									\$ -
<b>TOTAL</b>		\$ -	\$ 110,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 110,000

**6. PROPOSED SOURCES OF FUNDING**

REVENUE SOURCE	EXPENDITURE FUND	PRIOR YEARS	FY14	FY15	FY16	FY17	FY18	FY19	TOTAL
Contributions, Donations and Sponsorships			\$ 55,000						\$ 55,000
Impact Fees- Drainage	355-Impact Fees Drainage		\$ 55,000						\$ 55,000
									\$ -
<b>TOTAL</b>		\$ -	\$ 110,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 110,000

**1. PROJECT INFORMATION**

Project Title	Christopher Point Pond Improvements	Requesting Department	Dept. of Public Work/Engineering	Department Rank Priority No.	4
Project Category	Drainage	CIP Year	FY2018	Project No.:	N/A
Estimated Useful Life	16-25 Years	District Location	Council District 6	Project Request Status	Unfunded Previous Project Request

**2. PROJECT DESCRIPTION AND SCOPE**

The project includes improvements to the outlet of the Christopher Point Subdivision pond.

**3. PROJECT JUSTIFICATION**

The project is required because the design of the pond discharge clogs and does not function properly.

**4. PROJECT HISTORY AND STATUS**

This pond was constructed with the Christopher Point Subdivision. The history of the pond design approval is unknown. Since the initial construction the pond has not functioned correctly. A new outlet structure will solve this issue.

**5. CAPITAL COSTS**

PHASE	SOURCE(S) OF COST INFO	PRIOR YEARS	FY14	FY15	FY16	FY17	FY18	FY19	TOTAL
Planning and Feasibility									\$ -
Pre Design and Env. Review									\$ -
Land Acq./ROW									\$ -
Design and Specifications									\$ -
Construction	Recent City project						\$ 44,680	\$ 30,320	\$ 75,000
Construction Management									\$ -
Equipment/ Vehicle									\$ -
Other									\$ -
<b>TOTAL</b>		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 44,680	\$ 30,320	\$ 75,000

**6. PROPOSED SOURCES OF FUNDING**

REVENUE SOURCE	EXPENDITURE FUND	PRIOR YEARS	FY14	FY15	FY16	FY17	FY18	FY19	TOTAL
Impact Fees- Drainage	355-Impact Fees Drainage						\$ 44,680	\$ 30,320	\$ 75,000
									\$ -
									\$ -
<b>TOTAL</b>		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 44,680	\$ 30,320	\$ 75,000

**1. PROJECT INFORMATION**

Project Title	Greyhawk Pond Rework	Requesting Department	Dept. of Public Work/Engineering	Department Rank Priority No.	5
Project Category	Drainage	CIP Year	FY2019	Project No.:	N/A
Estimated Useful Life	11-15 Years	District Location	Council District 6	Project Request Status	Unfunded Previous Project Request

**2. PROJECT DESCRIPTION AND SCOPE**

The project includes improvements to the access ramp and surface inlets into the pond.

**3. PROJECT JUSTIFICATION**

Home owners adjacent to the pond have graded their lots and installed driveway culverts that no longer properly drain into the pond. This is causing erosion issues at the pond's maintenance ramp.

**4. PROJECT HISTORY AND STATUS**

This pond was constructed with the Grey Hawk Subdivision. The history of the pond design approval is unknown. Home owners adjacent to the pond have graded their lots and installed driveway culverts that no longer properly drain into the pond. This is causing erosion issues at the pond's maintenance ramp.

**5. CAPITAL COSTS**

PHASE	SOURCE(S) OF COST INFO	PRIOR YEARS	FY14	FY15	FY16	FY17	FY18	FY19	TOTAL
Planning and Feasibility									\$ -
Pre Design and Env. Review									\$ -
Land Acq./ROW									\$ -
Design and Specifications									\$ -
Construction	Recent City project							\$ 25,000	\$ 25,000
Construction Management									\$ -
Equipment/Vehicle									\$ -
Other									\$ -
<b>TOTAL</b>		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25,000	\$ 25,000

**6. PROPOSED SOURCES OF FUNDING**

REVENUE SOURCE	EXPENDITURE FUND	PRIOR YEARS	FY14	FY15	FY16	FY17	FY18	FY19	TOTAL
Impact Fees- Drainage	355-Impact Fees Drainage							\$ 25,000	\$ 25,000
									\$ -
									\$ -
<b>TOTAL</b>		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25,000	\$ 25,000

**1. PROJECT INFORMATION**

Project Title	Red River Watershed/Monterey-Granada Drainage Improvements	Requesting Department	Dept. of Public Work/Engineering	Department Rank Priority No.	6
Project Category	Drainage	CIP Year	FY2008	Project No.:	PI0835
Estimated Useful Life	Greater than 25 Years	District Location	Council District 6	Project Request Status	Revised Project Request

**2. PROJECT DESCRIPTION AND SCOPE**

The project involves construction of a drainage pond at the intersection of Granada Rd. and Monterrey Rd. Additional scope includes re-designing the drainage system (outlet pipe) from Sonora Rd. through the pond and out to the NM528 right-of-way. Pond construction, inlet piping and outlet structures along with some roadway improvements in Monterrey are all part of the Red River Watershed project.

**3. PROJECT JUSTIFICATION**

The construction of the project is required to allow current development in the area (E.g. Church of the Incarnation property). Also, this drainage infrastructure is necessary to allow other future public improvements in the surrounding residential area successful.

**4. PROJECT HISTORY AND STATUS**

Land acquisition was completed in Fiscal Year 2008 and design of the detention pond and outlet pipe was completed in May 2009. The project is a revised project request originally planned for construction in Fiscal Year 2010, however full funding remains unavailable. As revised, the project has fallen in priority rank from No. 1 to No. 6 within the Drainage facility category and construction is tentatively planned in Fiscal Years 2015, contingent upon identification of an additional \$578,942 for construction activities.

**5. CAPITAL COSTS**

PHASE	SOURCE(S) OF COST INFO	PRIOR YEARS	FY14	FY15	FY16	FY17	FY18	FY19	TOTAL
Planning and Feasibility									\$ -
Pre Design and Env. Review									\$ -
Land Acq./ROW	Recent City project	\$ 181,009							\$ 181,009
Design and Specifications	Recent City project	\$ 40,904							\$ 40,904
Construction	Cost Consultant			\$ 909,091					\$ 909,091
Construction Management	Cost Consultant			\$ 90,909					\$ 90,909
Equipment/ Vehicle									\$ -
Other									\$ -
<b>TOTAL</b>		<b>\$ 221,912</b>	<b>\$ -</b>	<b>\$ 1,000,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,221,912</b>

**6. PROPOSED SOURCES OF FUNDING**

REVENUE SOURCE	EXPENDITURE FUND	PRIOR YEARS	FY14	FY15	FY16	FY17	FY18	FY19	TOTAL
General Fund Revenues	305-Infrastructure Fund	\$ 87,387							\$ 87,387
Impact Fees- Drainage	355-Impact Fees Drainage	\$ 134,526		\$ 421,058					\$ 555,584
To Be Determined				\$ 578,942					\$ 578,942
									\$ -
									\$ -
<b>TOTAL</b>		<b>\$ 221,912</b>	<b>\$ -</b>	<b>\$ 1,000,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,221,912</b>