

AGENDA ITEM 1



Yuma County, Arizona
DEPARTMENT OF DEVELOPMENT SERVICES

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Craig L. Sellers, P.E., CPM
Director

**FLOOD CONTROL ADVISORY BOARD
REGULAR SESSION
GOLD ROOM
THURSDAY, SEPTEMBER 6, 2018
MINUTES**

Members in attendance: Tom Davis, Craig Colvin, Jeffrey Kramer, Kenneth Baughman, Elston Grubaugh and Kevin Dahl

At 9:33 Chairman Elston Grubaugh entered the meeting.

Members absent: Courtney Arviso

Others in attendance: Roger Patterson, County Engineer/Flood Control Manager; Sami Ayoub, Senior Civil Engineer; Frank Sanchez, Deputy County Engineer; Amanda Mahon, Yuma County Attorney II; Pamela Stone, Office Specialist III and Amber Jardine PZ Commission Admin Specialist.

Call to Order and Roll Call

Vice Chairman Tom Davis called the meeting to order at 9:08 AM and a quorum was verified.

Call to Public

Vice Chairman Tom Davis made a call to the public.

County Engineer Roger Patterson introduced Yuma County Attorney II Amanda Mahon to the Flood Control Advisory Board members. Mr. Patterson announced his retirement date of November 09, 2018.

Kenneth Baughman introduced himself as a new member of the Flood Control Advisory Board.

1. Approval of Minutes – Regular Meeting of March 1, 2018

Kevin Dahl made a motion to approve the minutes of the March 1, 2018 Flood Control Advisory Board meeting. Craig Colvin seconded the motion.

VOICE VOTE: Motion carried 5-0.

2. Chair and Vice Chair

Craig Colvin inquired about the requirements to be elected as Chairman or Vice Chairman.

Roger Patterson answered any board member can be elected Chairman or Vice Chairman.

Kevin Dahl made a motion to elect Elston Grubaugh as Chairman. Kenneth Baughman made a motion to elect Tom Davis as Vice Chairman.

VOICE VOTE: Motion carried 5-0.

3. Accept the June 15, 2018 Pump Station Improvement Project Study (CIP 3.0503) submitted by Dahl, Robins and Associates and recommend to the Board of Directors

Kevin Dahl gave a PowerPoint presentation on the Pump Station Improvement Project study (CIP 3.0503). Craig Colvin made a motion to approve and recommend the Pump Station Improvement Project Study (3.0503) to be forwarded to the Board of Directors. Jeffrey Kramer seconded the motion.

VOICE VOTE: Motion carried 5-0.

4. Summary of Board Actions

Roger Patterson reviewed the summary of Board Actions.

5. Projects Update

Sami Ayoub passed out a Flood Control District Projects Status Summary and provided an overview of each project. Roger Patterson and Sami Ayoub answered all inquiries.

6. Adjourn

Chairman Elston Grubaugh adjourned the meeting at 10:07 A.M.

These minutes were approved and accepted on this 6th day of December 2018.

Elston Grubaugh, Chairman

AGENDA ITEM 2

D R A F T

**YUMA COUNTY FLOOD CONTROL DISTRICT
2018
ASSESSMENT REPORT**



Prepared by

Yuma County Flood Control District

February 2019

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YUMA COUNTY FLOOD CONTROL DISTRICT

2018

ASSESSMENT REPORT



Yuma County Flood Control District
2351 W. 26th Street
Yuma, Arizona 85364

DRAFT (February 21, 2019)

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1.0 Introduction

1.1 Purpose

This annual assessment report identifies flooding, drainage and groundwater needs and makes recommendations to address them in Yuma County. An attempt has been made to identify the major flooding problems that cause damage and loss of multiple properties or threaten the health, safety and welfare of people and communities. Local flooding and drainage needs are also identified when multiple structures or people are at risk. This assessment also presents administrative and facility operation and maintenance highlights that affect Yuma County. The assessment is for the 2018 calendar year.

1.2 Scope

The 2018 assessment reviewed Yuma County Flood Control District's goals and objectives, its flood control problems/needs inventory for Yuma County, and proposed courses of action to improve flood control in Yuma County. The problems/needs inventory and recommendations have been updated to reflect new needs and progress that has been made on previously identified needs.

1.3 Statutory Requirements

This report has been prepared as required by A.R.S. §48-3616D.

1.4 Acronym Reference Chart

ACOE	Army Corps of Engineers
ADOT	Arizona Department of Transportation
ADWR	Arizona Department of Water Resources
ARS	Arizona Revised Statutes
AZPDES	Arizona Pollutant Discharge Elimination System
CAV	Community Assistance Visit
DFIRM	Digital Flood Insurance Rate Maps
FEMA	Federal Emergency Management Agency
FIRM	Flood Insurance Rate Maps
IGA	Intergovernmental Agreement
LOMR	Letter of Map Revision
MCAS	Marine Corps Air Station
MS4	Municipal Separate Storm Sewer System
NFIP	National Flood Insurance Program
NPDES	National Pollutant Discharge Elimination System
SFHA	Special Flood Hazard Area
USBR	United States Bureau of Reclamation
WMID	Wellton Mohawk Irrigation District
YCFCD	Yuma County Flood Control District
YCWUA	Yuma County Water Users' Association
YUHSD	Yuma Union High School District

2.0 Mission Statement, Objectives, and Goals

2.1 Mission Statement

To minimize the impact and to protect life and property from flooding.

2.2 Objectives and Goals

The District objectives and goals are given below.

Project Management Goals:

- A. Objectively identify needs, evaluate recommended solutions, and prioritize projects using standardized criteria.
- B. Estimate project costs and compare to project benefits.
- C. Work with Yuma County, municipalities, state, and federal governments and the public to improve flood control and drainage in Yuma County.
- D. Reduce adverse effects to people, structures, property, and public infrastructure from flooding and drainage problems through regulation, development guidance, and the construction and operation of flood control and drainage facilities and groundwater wells.
- E. Acquire available land within floodways and land needed for basins and other facilities identified by District master plans.
- F. Seek cost sharing opportunities for project development.

Facility Operation Goals:

- A. Operate and maintain flood control facilities as needed to reduce the impacts of flooding.
- B. Maintain compliance with current AZPDES General Permit allowing stormwater to discharge to waters of the United States from existing MS4s by continuing to enforce the Stormwater Management Program.
- C. Operate, maintain, replace, or allow others to do so at their expense, up to six of the eighteen Yuma Valley groundwater wells.
- D. Allow joint and multi-purpose use of facilities, by agreement, of facilities for the benefit of the public.

Administrative Goals:

- A. Maintain flood control and drainage problems/needs inventory and annually prepare a Flood Control Assessment Report.
- B. Maintain compliance with the NFIP by adopting and enforcing floodplain regulations that meet or exceed NFIP criteria and reflect current civil engineering practices.
- C. Administer floodplain development in accordance with NFIP, Arizona Revised Statutes, and Floodplain Regulations for Yuma County.
- D. Review grading plans and floodplain use permit applications and, when compliant, issue permits on new developments/construction.

3.0 Needs Assessment & Recommendations

Assessments are conducted on flooding and drainage needs affecting residential, commercial and industrial development throughout Yuma County. Assessments are done to determine the need for master drainage plans, major storm drainage outfall, and discharge and disposal systems in urbanizing areas of the County. Although the primary emphasis is drainage and flood control, some groundwater issues are addressed. As needs are identified, a preliminary assessment is conducted to recommend a course of action to address the need. The comprehensive list of identified needs, locations, risk, recommended actions, estimated costs, and benefit/cost is given in Appendix A and location maps are in Appendix B. The type of need is indicated by the project number. Needs with project numbers beginning with 11 are river, channel, or wash needs. Needs with project numbers beginning with 12 are drainage needs.

4.0 Operations & Maintenance

YCFCD has an on-going maintenance program to identify needs and repair flood control facilities. This year, system discharges are being evaluated for compliance with USBR requested standards. Repairs were also made to groundwater well and pump station control panels, fencing, and sites.

5.0 National Flood Insurance Program and Floodplain Regulations

5.1 Floodplain Regulations

The latest Yuma County Floodplain Regulations were effective December 31, 2012. No modifications were made in 2018.

5.2 Flood Insurance Rate Maps

The latest FIRM revisions were effective January 16, 2014. No modifications were made in 2018.

5.3 Community NFIP Participation

At this time, Yuma County, City of Yuma, City of Somerton and Town of Wellton are National Flood Insurance Program participating communities. San Luis does not participate. City of Yuma manages its floodplains. City of Somerton and the Town of Wellton depend upon the District for floodplain management. City of Somerton does not contain any SFHA. The District performs all floodplain permitting, inspection, and approval for dependent communities.

6.0 Flood Control District Funding

The Flood Control District is funded by a secondary property tax. The current tax levy is 0.2522 percent of assessed property value. Current annual revenues are approximately \$2.57 million. The estimated revenues for fiscal year 2019, including carryover from previous years, is \$22.82 million and funds are carried over to fund large projects that exceed annual revenues. Figure 6.1 Flood Control Revenues shows tax levy rates and inflation adjusted annual revenue since 1996.

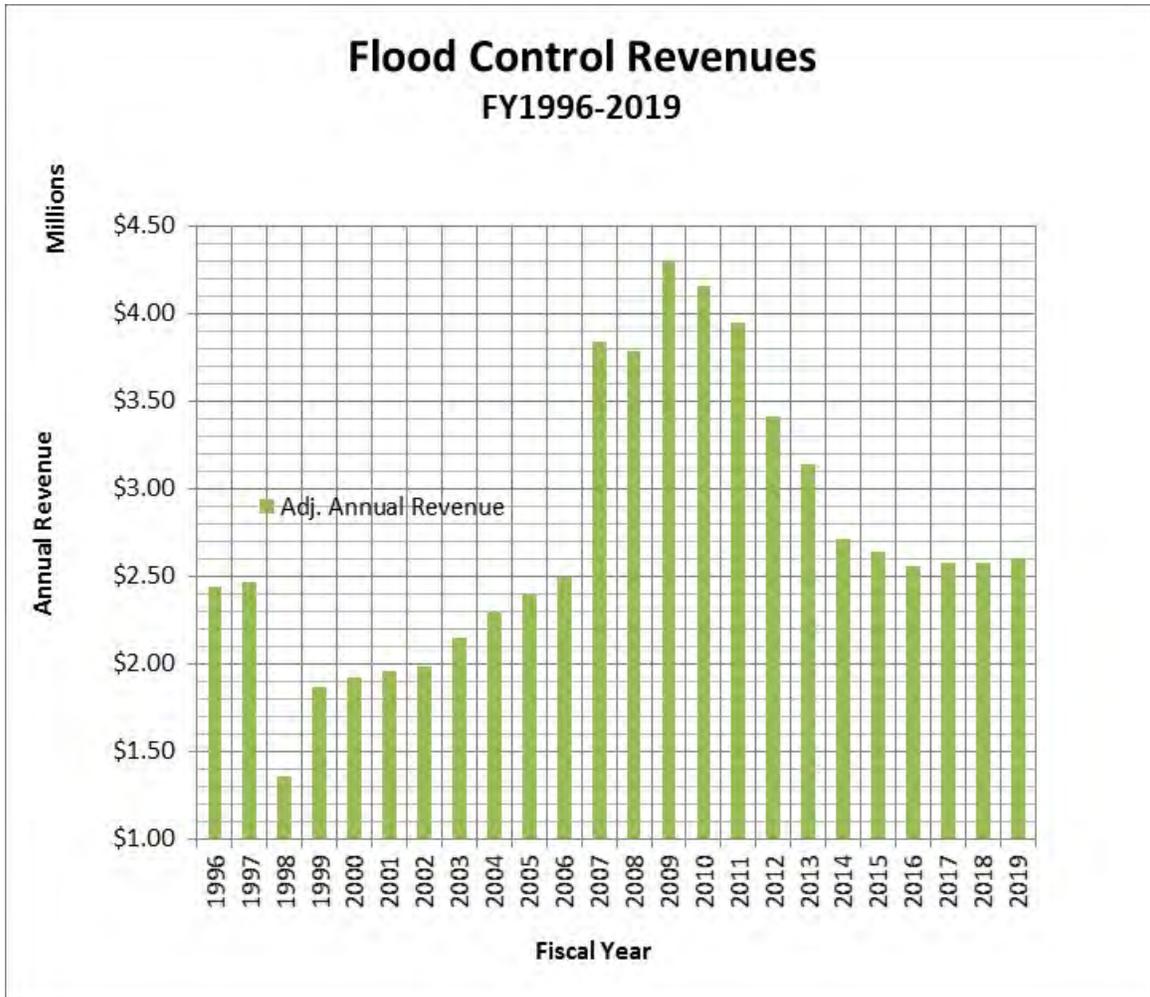


Figure 6.1 Flood Control Revenues

Table 6.1 gives a summary of projected costs to address the known flood control and drainage needs. The projected cost of all known needs exceeds \$72 million and \$200,000 of annual recurring costs. The Yuma County, Arizona Five-Year Capital Improvement Plan gives specific information regarding project funding for the next five years.

Table 6.1 Projected Costs of Known Needs

Project No.	Project	Estimated Total Project Cost
11-22P	Gila River Obstruction Removal	\$10,000,000
11-23P	Groundwater Drainage Well Maintenance (Reoccurring)	\$200,000
11-25P	East Main Canal Floodplain Delineation	\$350,000
11-32P	Fortuna Wash and Tributaries Bank Stabilization	\$5,000,000
12-01P	Tierra Kino & Del Oro Drainage Improvements	\$600,000
12-09P	28 th Avenue – La Jolla Subdivision Drainage	\$650,000
12-15P	28 th Street & Westridge Drive Trunk lines	\$13,000,000
12-16P	Kofa High School Retention	\$5,000,000
12-20P	1 st Avenue/24 th Street Area Drainage Improvements	\$1,500,000
12-22P	Engler Avenue Retention Basin	\$400,000
12-45P	Giss Parkway Street Flooding	\$2,000,000
12-48P	Flood Control Mapping (Reoccurring)	\$500,000
12-49P	Master Drainage Plans (Reoccurring)	\$ 750,000
12-51P	12 th Avenue & Arena Drive Stormdrain	\$650,000
12-63P	Smucker Park Basin	\$8,700,000
12-66P	County 14th Street Sheet Flow - Wellton	\$400,000
12-70P	Business 8 Flooding	\$2,000,000
12-72P	South Frontage Road Retention Basin	\$450,000
12-73P	South Gila Canal Underdrains	\$1,000,000
12-75P	Avenue 10E & Co. 10½ Street (Avenida Compadres Area)	\$500,000
12-76P	Avenue 7E Drainage Improvements	\$150,000
12-77P	Araby Road Drainage Improvements	\$150,000
12-78P	Gila Ridge Road Drainage Improvements	\$150,000
12-79P	Arizona Western College Drainage Improvements	\$200,000
12-80P	San Luis Area Drainage Improvements	\$1,250,000
12-81P	Yuma Mesa Conduit Vaults	\$150,000
12-82P	Mitigation Fund (Reoccurring)	\$500,000
12-84P	Basin Lands and Improvements (Reoccurring)	\$350,000
12-86P	Gadsden Area Drainage Improvements & Outfall	\$7,000,000
12-88P	Yuma Valley Master Plan Update	\$450,000
12-90P	Atlantic Avenue Area Drainage	\$5,000,000
12-91P	Yuma East Flooding	\$750,000
12-92P	Desert Air Estates, Unit 1 & 2 and Country Life Mobile Estates Flooding	\$1,000,000
12-94P	South Somerton Drainage Improvements	\$3,000,000
12-95P	Farwest Storm Drain	\$3,500,000
12-98P	County 14th St. Mesa Dunes	\$350,000
12-99P	Hettima Street Ponding	\$150,000
12-100P	San Luis Basin Discharge	\$250,000
12-101P	Yuma 44th Drive Basin Discharge	\$150,000
12-102P	Coyote Wash Channelization	\$1,500,000
12-103P	Wellton Drainage Improvements	\$5,000,000
12-104P	San Luis Mesa Erosion	\$1,500,000
12-105P	Tacna-Citrus Park Unit 4 Drainage Improvements	\$1,500,000
12-106P	West Yuma Mesa Outfall	\$2,500,000
12-107P	Airport Loop Road Drainage Improvements	\$600,000
12-108P	Somerton Avenue F Pump Station	\$25,000
	Total Projected Costs	\$90,775,000

7.0 Summary

This assessment of flood control problems and needs in Yuma County shows progress in safety and living conditions in the County. The assessment summarizes the identified flood control problems and recommended solutions for each. The Capital Improvement Plan is used to prioritize and fund these programs over a number of years. Funding is not available to resolve all needs immediately. The estimated cost to address all of the known needs is approximately \$91 million with annual revenues of approximately \$2.5 million.

The assessment identified problems ranging from small local issues that involve few people and limited property to large and extensive problems that affect large areas and many people. Identified needs include the acquisition of land for future flood control and drainage facilities, continued aerial mapping and area drainage plan updates throughout the County.

The assessments also identified the need for continued maintenance of existing facilities to improve performance.

Long-term steady progress has been made and continues to be made on addressing the area's flooding and drainage problems. Substantial progress was made on several projects in 2018 as shown in Table 7.1. The status of all projects is provided in Appendix A. Project Location Maps are provided in Appendix B.

Table 7.1 Projects with Significant Progress

Project No.	Project	Progress
12-56P	W. Yuma Mesa Storm Drain, 4th-32 th Street	Construction – 100% Complete
12-63P	Smucker Park Detention Basin	Planned Bid Date 6/5/2019
12-80P	San Luis Drainage Improvements	Construction - 90% Complete
12-86P	Gadsden Area Drainage Improvements & Outfall	Study - Initiated
12-93P	Calle Maria Ponding	Construction – 100% Complete
12-94P	South Somerton Drainage Improvements	Project Development - Initiated
12-95P	Farwest Storm Drain	Construction – 30% Complete
12-97P	North Frontage Road Retention Basins	Construction – 100% Complete
12-102P	Coyote Wash Channelization	Project Development – Initiated
12-103P	Wellton Drainage Improvements	Project Development – Initiated

LIST OF REFERENCES

NO. NAME OF REPORT OR INFORMATION

1. Master Plan Drainage System Study for Yuma Valley—August 1989
2. East Yuma Storm Drainage System Plan—October 1988
3. East Mesa Storm Sewer Outfall System Study—August 1987
4. Yuma Regional Storm Water Management Plan—February 1980
5. Master Drainage Report—Metropolitan Yuma—February 1975
6. Foothills Master Storm Drainage Plan Study—October 1988
7. Colorado River Flood of 1983—Findings and Emergency Solutions Report—September 1983
8. Reconnaissance Report—Lower Gila River Flood Control Project—June 1980
9. Gila River Flood Channel Restoration Project—Design Memorandum—September 1994
10. North Central Yuma Storm Drainage System Report—November 1991
11. Mountain Shadow Estate, Phase III—Drainage Report
12. Hydrologic and Drainage Design Report—Avenue B—April 1990
13. Yuma B-8 Drainage Study—August 1992
14. Drainage Improvements Feasibility Study—Interstate-8 and Giss Parkway—March 1993
15. Drainage Report for Proposed Flagship Corridor Industrial Park—July 1992
16. Flood Insurance Study—Yuma County 1985, 2008
17. Hydrogeology, Numerical Model and Scenario Simulations of the Yuma Area Ground Water Flow Model, Arizona, California and Mexico and Addendum, October 1993
18. 10th Street Drainage Area—Design Report—June 1995
19. Elks Area Drainage Study—April 1995
20. West Yuma Mesa Storm Drainage Discharge System Report—July 1996
21. Foothills Drainage Survey Report—September 1996
22. Flood Damage Survey Report—Somerton—October 1997
23. Design Concept Report, Bank Stabilization on Gila River—January 1997
24. LOMR for areas East of Fortuna Wash—FIRM Map No. 885D—June 2000
25. 23rd Street Detention Basin and Pump Station—Design Concept Report—March 2000
26. East Mesa Area Drainage Study – October 2004

LIST OF REFERENCES (CONT.)

NO. NAME OF REPORT OR INFORMATION

27. Fortuna Wash Bank Stabilization Design Concept Report—May 2004
28. Fortuna Wash Bank Stabilization Concept Hydraulic Report—May 2004
29. East Mesa Area Drainage Study Alternative Analysis Report – December 2004
30. Avenue 64E/Gila River Bank Stabilization Project Final Design Report – October 2009
31. Northwest Somerton Area Drainage Study – February 2009
32. San Luis Area Drainage Study – September 2009
33. Gadsden Area Drainage Study – August 2010
34. Yuma East Area Drainage Study – 2011
35. Del Oro Estates Area Drainage Study – 2011
36. Draft Yuma Valley Master Drainage Plan Update – 2012
37. Foothills Master Plan Update – 2015
38. South Somerton Area Drainage Study – 2017
39. Wellton Area Drainage Study – 2017
40. Pump Station Discharge Improvement Project - 2018

APPENDIX A

Needs, Recommendations, and Status

List of Projects

Group 11 – River, Wash, & Channel Needs, Recommendations, & Status

11-22P	Gila River Obstruction Removal	1
11-23P	Groundwater Drainage Well Maintenance	2
11-25P	East Main Canal Floodplain Delineation	3
11-32P	Fortuna Wash and Tributaries Bank Stabilization	4

Group 12 – Drainage & Facility Needs, Recommendations, & Status

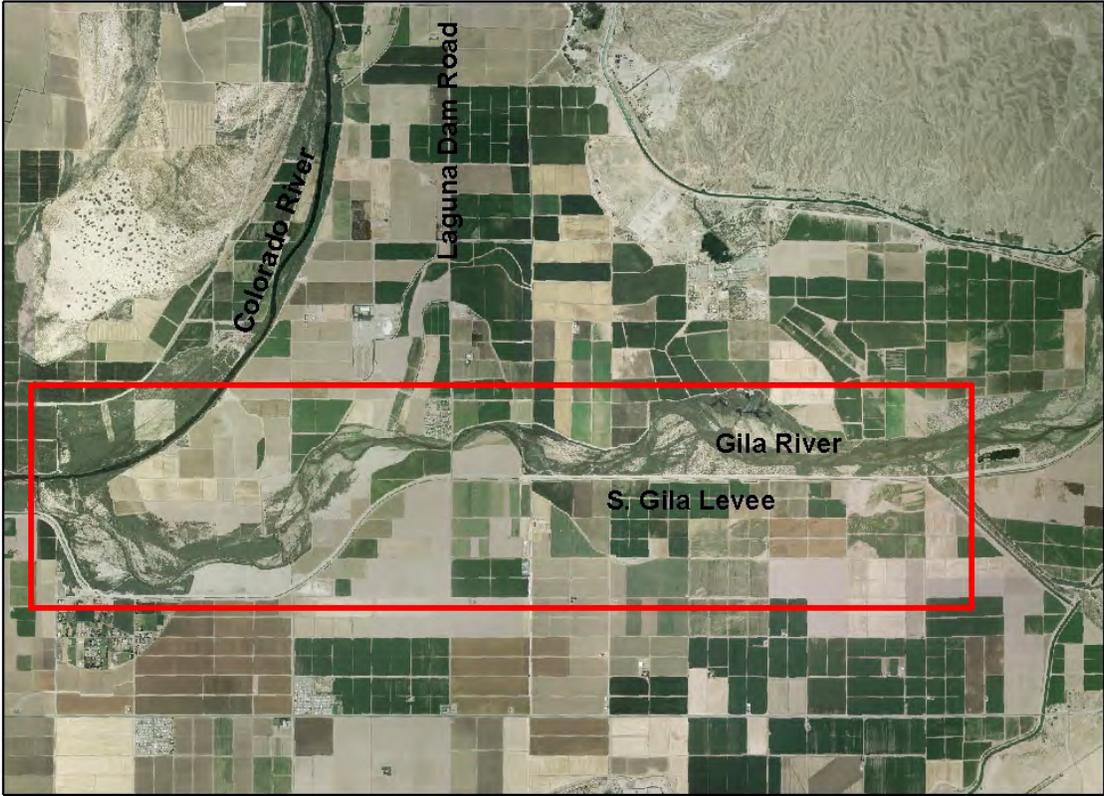
12-01P	Tierra Kino and Del Oro Drainage Improvements	5
12-09P	28 th Avenue Ponding.....	6
12-15P	28 th Street Drainage System Trunkline	7
12-16P	Kofa High School Retention.....	8
12-20P	1 st Avenue/24 th Street Area Drainage Improvements	9
12-22P	Engler Avenue Retention Basin.....	10
12-45P	Giss Parkway Street Flooding.....	11
12-48P	Flood Control Mapping.....	12
12-49P	Master Drainage Plans	13
12-51P	12 th Avenue and Arena Drive Stormdrain	14
12-63P	Smucker Park Area Drainage.....	16
12-66P	Wellton - County 14th Street Flooding.....	17
12-70P	Business 8 Flooding.....	18
12-72P	South Frontage Road Retention Basin.....	19
12-73P	South Gila Canal Underdrains	20
12-75P	Avenue 10E & Co. 10½ Street (Avenida Compadres Area)	21
12-76P	Avenue 7E Drainage Improvements.....	22
12-77P	Araby Road Drainage Improvements	22
12-78P	Gila Ridge Road Drainage Improvements	23
12-79P	Arizona Western College Drainage Improvements	24
12-80P	San Luis Area Drainage	25
12-81P	Yuma Mesa Conduit Vaults.....	26
12-82P	Mitigation Fund	27
12-84P	Basin Lands.....	28

List of Projects (Cont.)

Group 12 – Drainage and Facility Needs, Recommendations, & Status (Cont.)

12-86P	Gadsden Area Drainage	30
12-88P	Yuma Valley Master Drainage Plan Update.....	31
12-90P	Atlantic Avenue Area Drainage Study	32
12-91P	Yuma East Flooding	33
12-92P	Desert Air Estates, Unit 1 & 2 and Country Life Mobile Estates Flooding	34
12-94P	South Somerton Drainage Evaluation.....	36
12-95P	Farwest Storm Drain	37
12-98P	County 14th Street - Mesa Dunes Flooding.....	39
12-99P	Hettima Street Ponding	40
12-100P	San Luis Basin Discharge	41
12-101P	Yuma 45th Drive Basin Discharge	42
12-102P	Coyote Wash Channelization.....	43
12-103P	Wellton Drainage Improvements	44
12-104P	San Luis Mesa Erosion	45
12-105P	Tacna - Citrus Park Unit 4 Sheet Flow	46
12-106P	West Yuma Mesa Outfall.....	47
12-107P	Airport Loop Road Drainage Improvements	48
12-108P	Somerton Avenue F Pump Station.....	49

Group 11 - River, Wash, & Channel Needs, Recommendations, & Status

No.	Project
11-22P	<p>Gila River Obstruction Removal – ON HOLD Gila River—Between Avenues 6½E and 11E</p> <p>Need: Obstructions need to be removed from the Gila River and the Avenue 7E bridge to increase channel capacity for 100-year flood.</p> <p>Risk: Uprooted trees and other debris can plug the bridge openings resulting in partial damming of the river. Risk is moderate with potential flood area primarily agricultural and few structures. Risk is short-term due to high probability with high floods.</p> <p>Recommended Solution: Establish a clear low-flow channel with overflow channels by removing thick salt cedars and other vegetation enabling routine channel maintenance. Work with other agencies to develop a project with wide support.</p> <p>Estimated Cost: \$10 million (\$2 million provided by YCFCD)</p> <p>Benefit/Cost: 1.6</p> <p>Status: Clearing under Avenue 7E bridge performed by others. No planned activity until agencies provide funding mechanism.</p> <p>Agencies: USBR, ACOE, YID, YCFCD, Arizona Fish & Game</p>
	

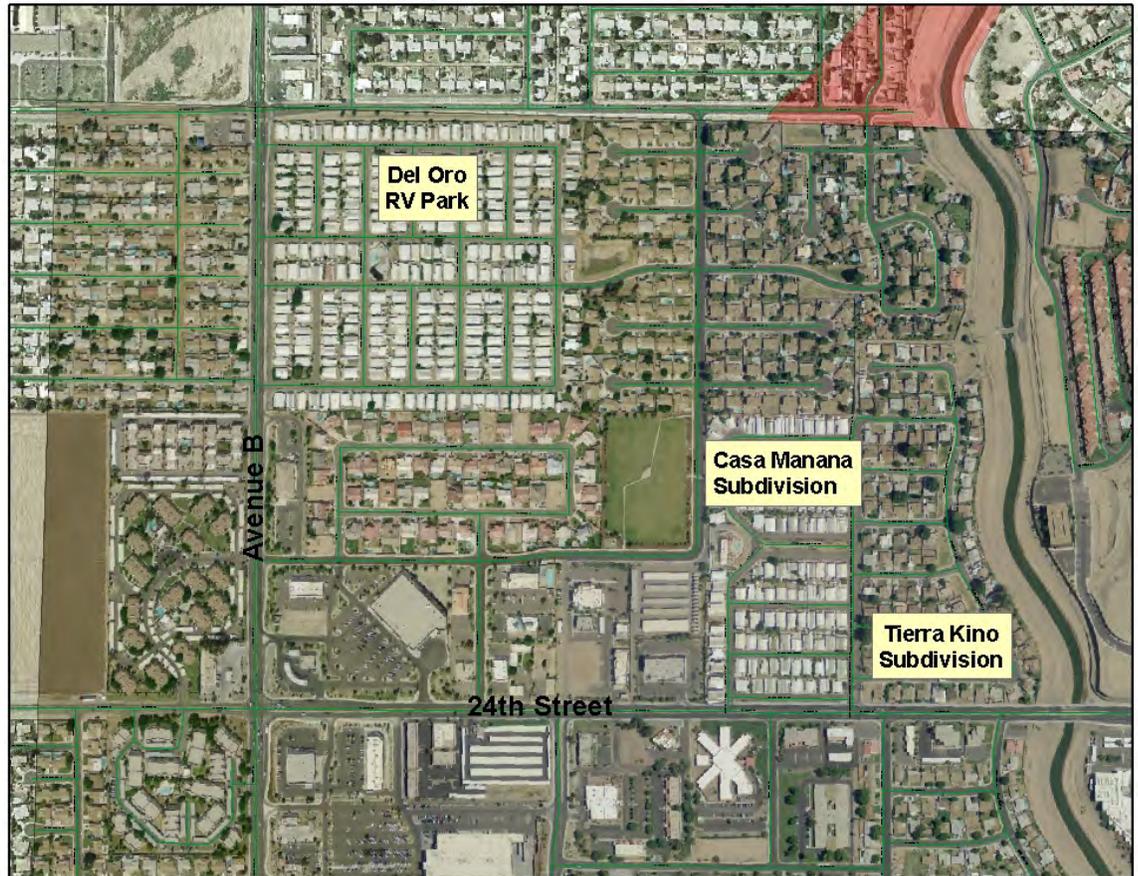
No.	Project
11-23P	<p>Groundwater Drainage Well Maintenance Yuma and Gila Valleys</p> <p>Need: High groundwater at various times of the year causes considerable problems in the Yuma and Gila Valley areas to residences and utilities.</p> <p>Risk: Due to the prolonged drought, the groundwater table is dropping. Extremely high groundwater occurs with Colorado River flooding and irrigation. High but predictable risk.</p> <p>Recommended Solution: Annual maintenance based on USBR and YCWUA recommendations and independent analysis.</p> <p>Estimated Cost: \$50,000-200,000 Annually</p> <p>Benefit/Cost: >1.0</p> <p>Status: YCWUA continues to perform site cleanup and electrical improvements at groundwater well sites. Site cleanup, control rewiring, repainting systems, and pump maintenance. Discharge lines for DW-1, DW-2, DW-7 and DW-9 are in design phase. Topographical survey is in the process. USBR has placed SCADA systems at a number of locations to measure future flow rates.</p> <p>Agencies: YCFCD, USBR, YCWUA</p>
	

No.	Project
11-25P	<p>East Main Canal Floodplain Delineation Yuma—West Side of East Main Canal between 1st and County 14th Streets</p> <p>Need: As a result of numerous flood control improvements, the East Main Canal floodplain has been reduced in size. Once the Smucker Park Basin and West Yuma Mesa storm drain improvements are complete, the floodplain will be reevaluated. The Padre Ranchitos area can be evaluated at this time.</p> <p>Risk: Accurate mapping is needed for stakeholders to make informed decisions. Accurate mapping is needed to reflect true flood risk.</p> <p>Recommended Solution: Evaluate the Padre Ranchitos area. The East Drain may have adequate capacity to contain the mesa runoff to reduce the size of floodplain in this area. The floodplain north of 32nd Street does not have adequate freeboard to reduce the floodplain without the recommended retention.</p> <p>Estimated Cost: \$350,000</p> <p>Benefit/Cost: >1.0 (Letter of Map Revision only)</p> <p>Status: Magnolia Basin, Sunset Mesa Basin and Vista del Valle Basin have been expanded. Smucker Park Basin plans have been approved by ADWR. Plans complete for 6 1/2 Street and 12th Avenue Basins.</p> <p>Agencies: YCFCD, Yuma, YCWUA</p>



Group 12 – Drainage and Facility Needs, Recommendations, & Status

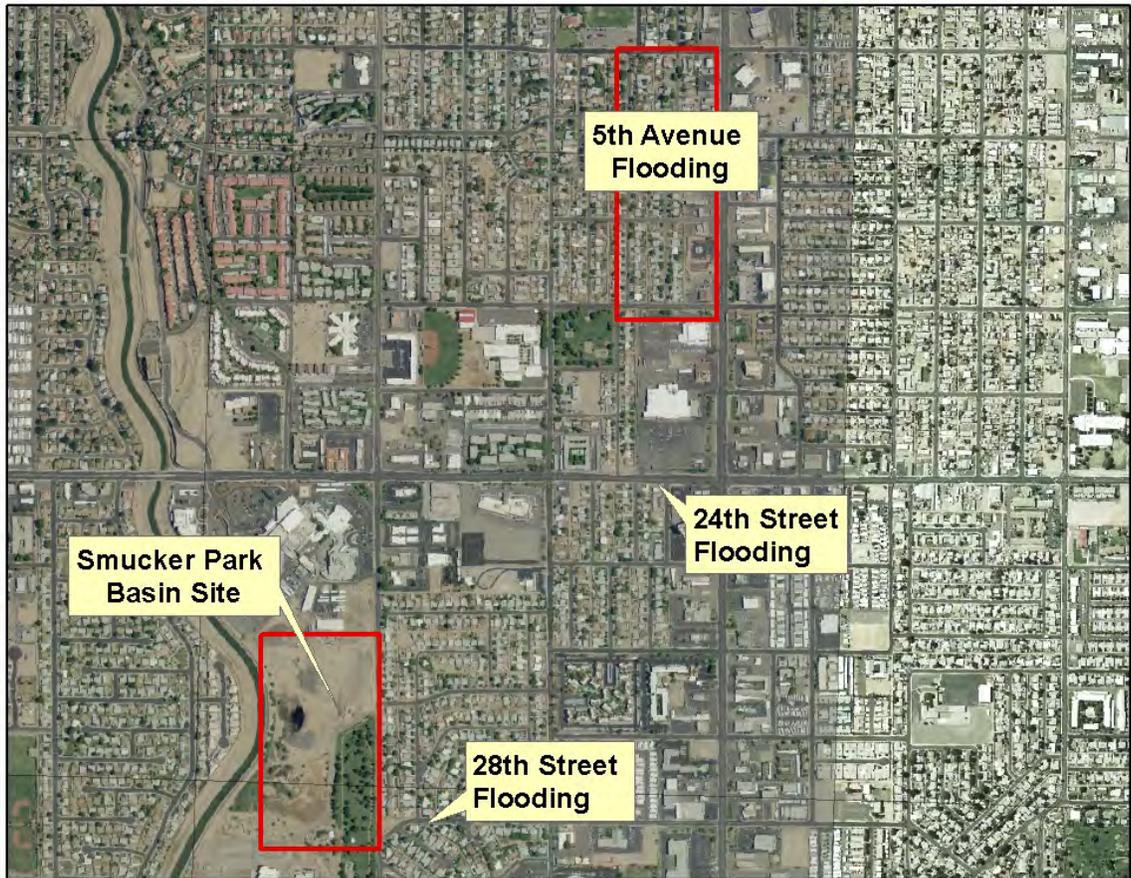
No.	Project
12-01P	<p>Tierra Kino and Del Oro Drainage Improvements - ON HOLD Yuma—Camino Tierra, Quail Avenue, Sidewinder Avenue</p> <p>Need: Streets and improvements have experienced repeated ponding and flooding. Risk: Greater than 50 homes. High, imminent risk due to the multiple homes receiving moderate damage from ponding. Recommended Solution: A storm sewer system is recommended to convey stormwater to the existing 23rd Street Retention Basin. Estimated Cost: \$600,000 for flood control facilities Benefit/Cost: 1.0 Status: Del Oro Estates concept design complete and submitted to City of Yuma for use. Casa Manana is complete. Agencies: YCFCD, Yuma</p>



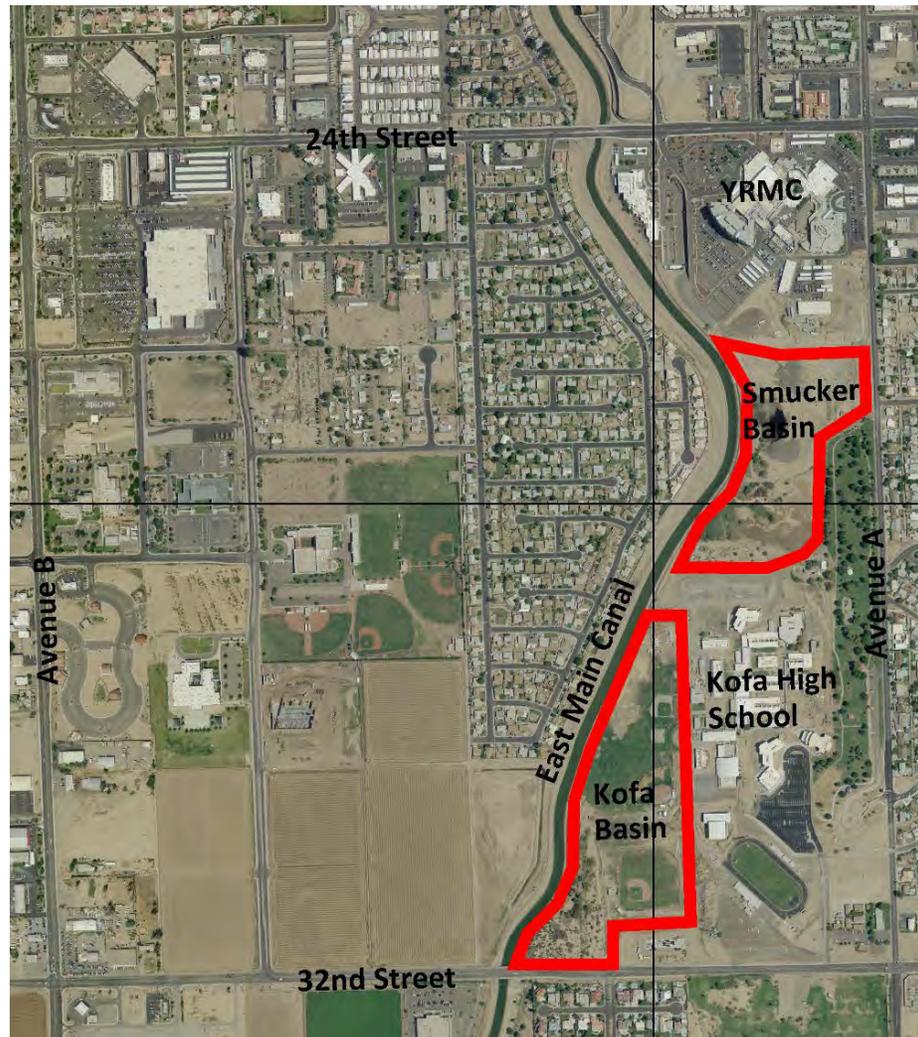
No.	Project
12-09P	<p>28th Avenue Ponding – ON HOLD Yuma—La Jolla Subdivision 14th St., 14th Place and 15th St. at 28th Ave.</p> <p>Need: Ponding and shallow flooding of streets and residential yards. Curb is present providing protection from low intensity rain but water does not drain off streets.</p> <p>Risk: Greater than 50 homes. High, imminent risk due to homes built at street grade and no street drainage.</p> <p>Recommended Solution: Regrade road and/or construct storm drain system to connect to Avenue B storm drain or US Marine Corps basin to the west. The Avenue B solution would add flows to the 12th Street/Avenue B Basin.</p> <p>Estimated Cost: \$650,000</p> <p>Benefit/Cost: >1.0</p> <p>Status: Survey completed and design concepts is complete. Project on hold until property owners propose funding mechanism.</p> <p>Agencies: YCFCD, Yuma</p>



No.	Project
12-15P	<p>28th Street Drainage System Trunkline – ON HOLD Yuma—5th Ave. between 19th and 22nd St., 24th St. between 5th and 6th Ave., 28th St. between Fern Dr. and Las Palmas Vista</p> <p>Need: Ponding and flooding of streets, improvements, and residential yards. Catch basins exist in problem areas. Trunkline is needed on 28th St. for discharge into Smucker Park Basin.</p> <p>Risk: Greater than 50 homes at imminent risk for moderate damage due to ponding</p> <p>Recommended Solution: This project will provide a trunkline storm sewer that will discharge into the proposed Smucker Park Basin and include approximately 7,200 feet of storm sewer pipe, catch basins, manholes and appurtenances.</p> <p>Estimated Cost: \$13 million</p> <p>Benefit/Cost: >1.0</p> <p>Status: Design for Smucker Park to 8th Avenue section complete. The balance of the project is on hold until Smucker Park Basin is completed and required property acquired. City of Yuma has requested restudy of watershed to evaluate retention basin alternatives.</p> <p>Agencies: YCFCD, Yuma</p>



No.	Project
12-16P	<p>Kofa High School Retention Yuma—Kofa High School</p> <p>Need: Inadequate retention facilities allow uncontrolled stormwater from the area east of Kofa High School to discharge to East Main Canal. These basins supplement the capacity of the proposed Smucker Park Basin.</p> <p>Risk: Moderate, mid-term risk associated with potential for damage to East Main Canal which could then fail and compound the amount of flooding.</p> <p>Recommended Solution: Construct a retention basin, discharge force main and spillways to control discharge to canal. Additional land to be purchased or capacity offset by Smucker Park Basin.</p> <p>Cost Estimate: >\$5 million</p> <p>Benefit/Cost: >1.0</p> <p>Status: Due to development in the area, retention is limited to Kofa High School area. Kofa High School is considering drainage improvements to campus.</p> <p>Agencies: YCFCD, Yuma, YCWUA, YUHSD</p>



No.	Project
12-20P	<p>1st Avenue/24th Street Area Drain Improvements - ON HOLD Yuma—1st Ave. and 23rd St., Virginia Dr. and 25th St., and 26th Pl. and Palo Verde St.</p> <p>Need: Localized ponding and flooding is damaging residential and commercial improvements.</p> <p>Risk: Right-of-way ponding in localized areas. Low to moderate risk.</p> <p>Recommended Solution: A storm sewer is needed to improve drainage in the Virginia Drive and 25th Street area and the 26th Place and Palo Verde Street area. The 1st Avenue and 23rd Street catch basins may need a conveyance line.</p> <p>Cost Estimate: \$1,500,000</p> <p>Benefit/Cost: >1.0</p> <p>Status: Catch basins are in place at 1st Ave. and 23rd Street. Smucker Park and 28th Street trunkline are needed to drain this area.</p> <p>Agencies: YCFCD, Yuma</p>

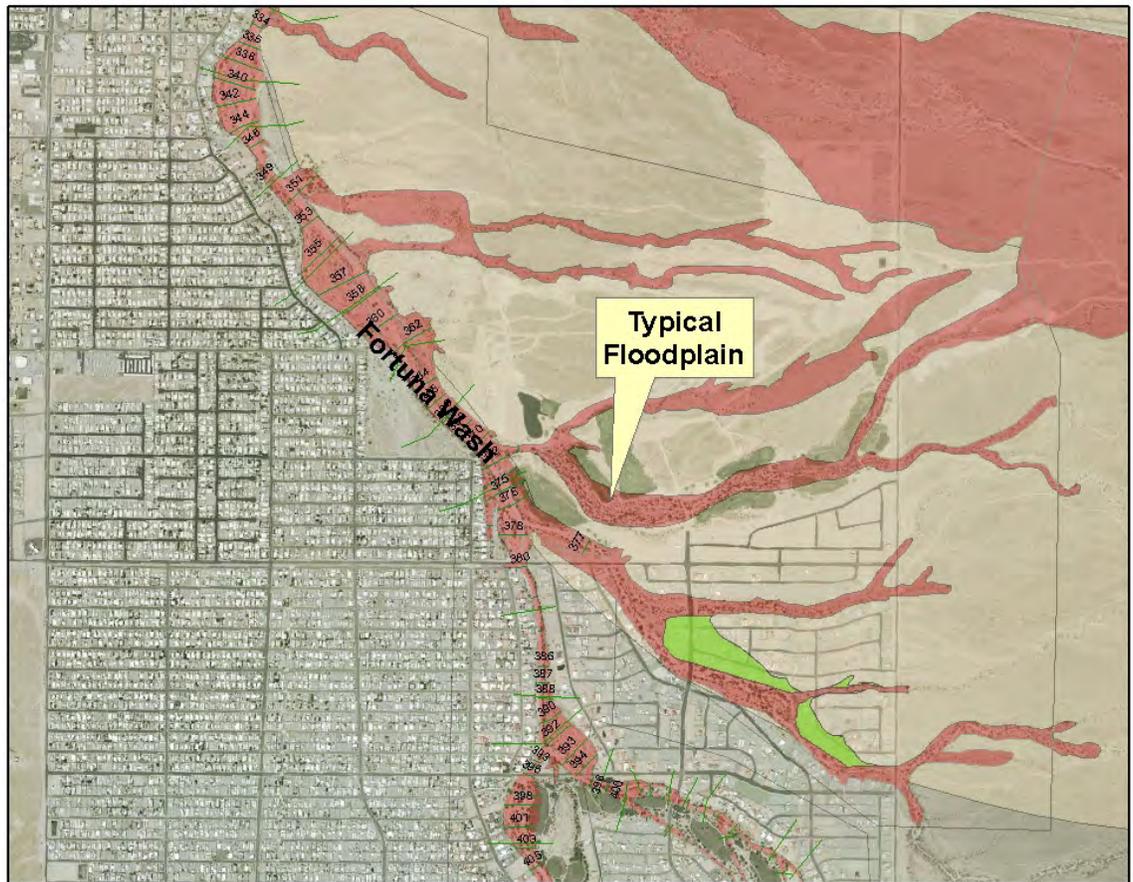


No.	Project
12-22P	<p>Engler Avenue Retention Basin - ON HOLD Yuma—Engler Ave. and Calle Chapalla</p> <p>Need: Retention basin does not percolate and has no outfall. Neighboring field irrigation adds to problem. Stagnant water results.</p> <p>Risk: Health risk from water-borne illness. Negligible flood risk except west of Pacific where flooding in right-of-way is moderate.</p> <p>Recommended Solution: A pump station and force main to the existing Pacific Avenue retention basin on the East Mesa Storm Drain system is recommended. Drainage improvements to the open channel on the west side of Pacific Avenue to prevent erosion are also recommended.</p> <p>Cost Estimate: \$400,000</p> <p>Benefit/Cost: 0.4</p> <p>Status: Improvement plan design is complete. Survey has been completed to incorporate drainage improvements along Pacific Avenue. Portion of force main in easement has been constructed.</p> <p>Agencies: YCFCD</p>
	

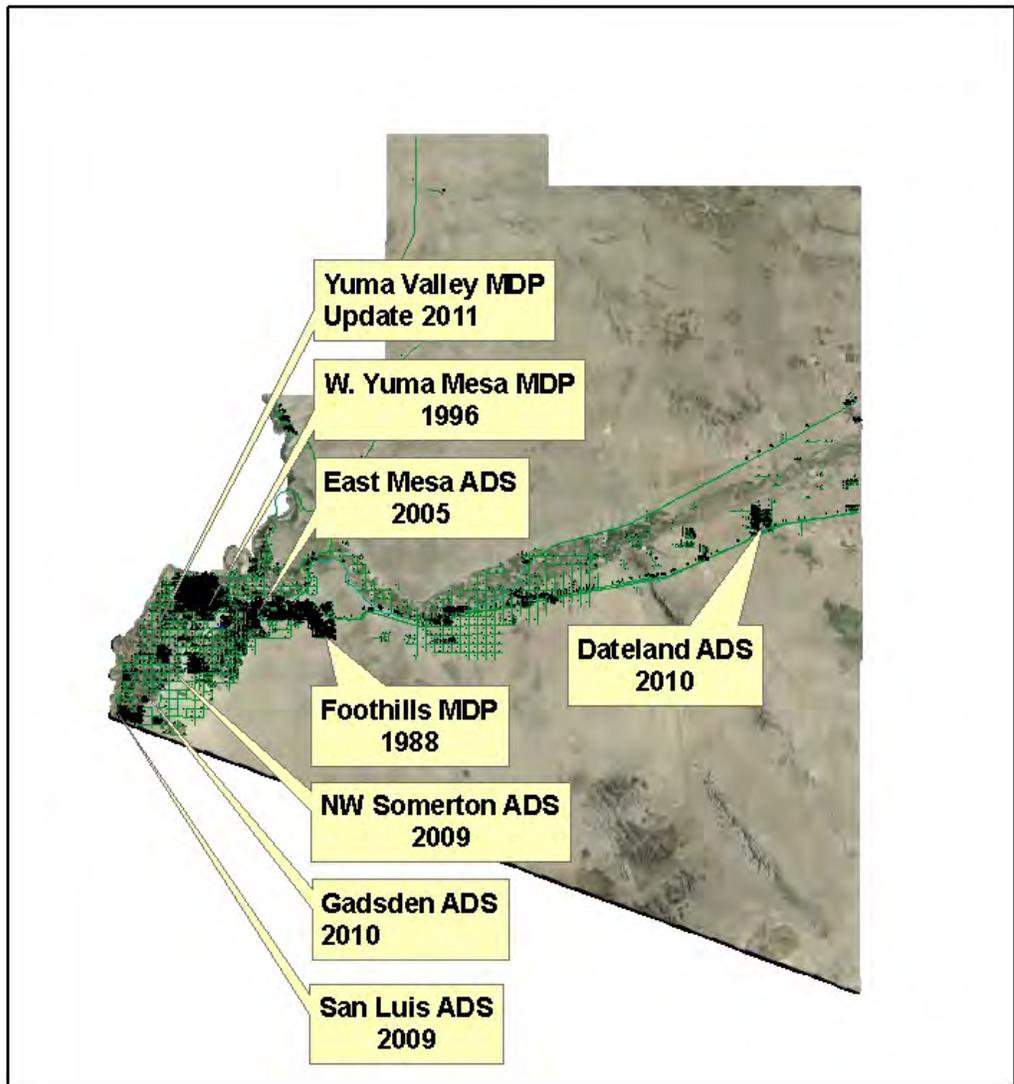
No.	Project
12-45P	<p>Giss Parkway Street Flooding Yuma—Giss Parkway between railroad and I-8.</p> <p>Need: Giss Parkway underpass is depressed resulting in several-foot deep flooding of road and adjacent improvements during prolonged Colorado River flooding. Planned revitalization may require additional drainage improvements.</p> <p>Risk: Risks from 1) groundwater rise from Colorado River Flooding or 2) severe rain flooding underpass. Risk to buildings negligible.</p> <p>Recommended Solution: A design concept report is recommended to evaluate pumping and discharge alternatives.</p> <p>Estimated Cost: \$100,000 for study (\$2,000,000 project)</p> <p>Benefit/Cost: To be determined by design concept report.</p> <p>Status: Not Addressed</p> <p>Agencies: YCFCD, Yuma, ADOT</p>



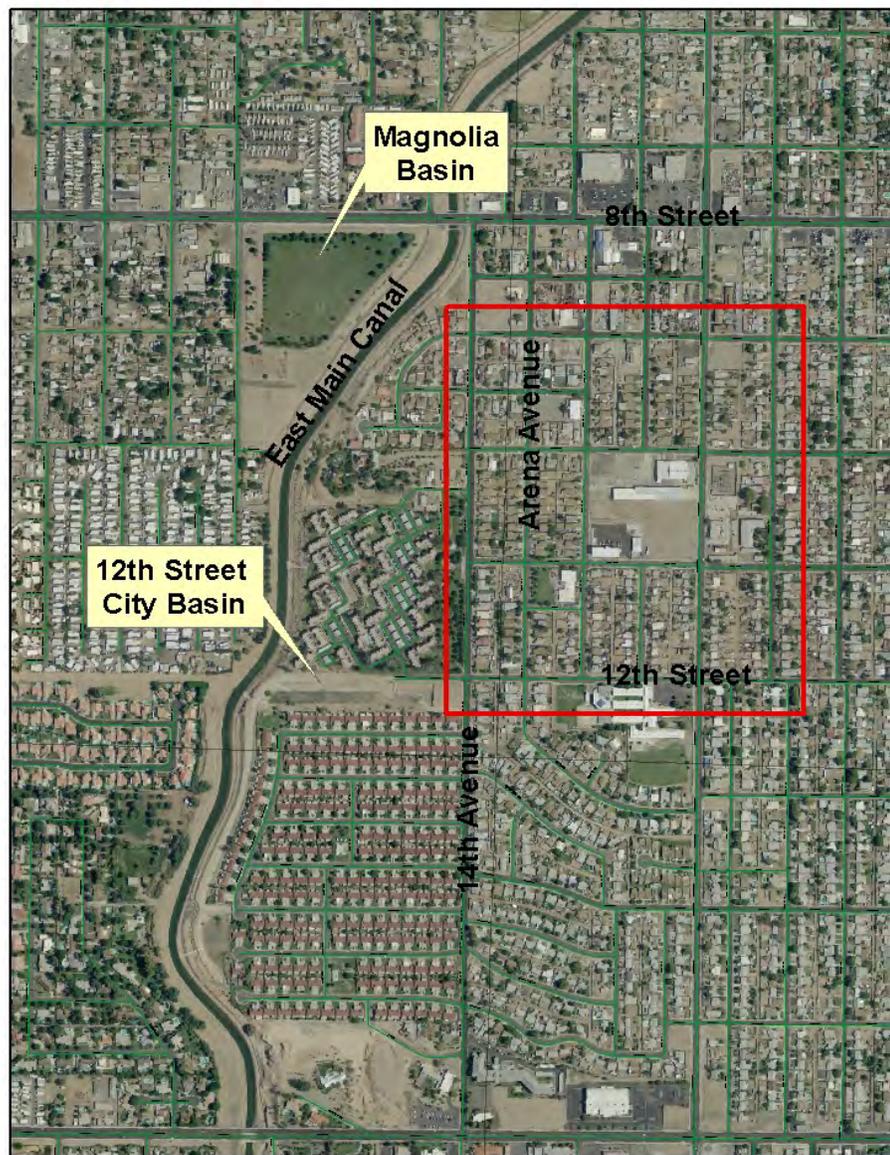
No.	Project
12-48P	<p>Flood Control Mapping Countywide</p> <p>Need: Ongoing effort to update Countywide topographic mapping necessary to evaluate drainage problems and prepare design plans.</p> <p>Risk: Mapping is needed to assess risk for current and future development.</p> <p>Recommended Solution: Incorporate mapping into studies and projects as needed.</p> <p>Estimated Cost: Reoccurring biannual expense of \$500,000</p> <p>Status: Martinez Lake contour mapping has been received from USBR. Foothills study has updated mapping and hydrology in Foothills area. The Gila River and Coyote Wash Flood Insurance Rate Maps became effective on January 16, 2014.</p> <p>Agencies: YCFCD</p>



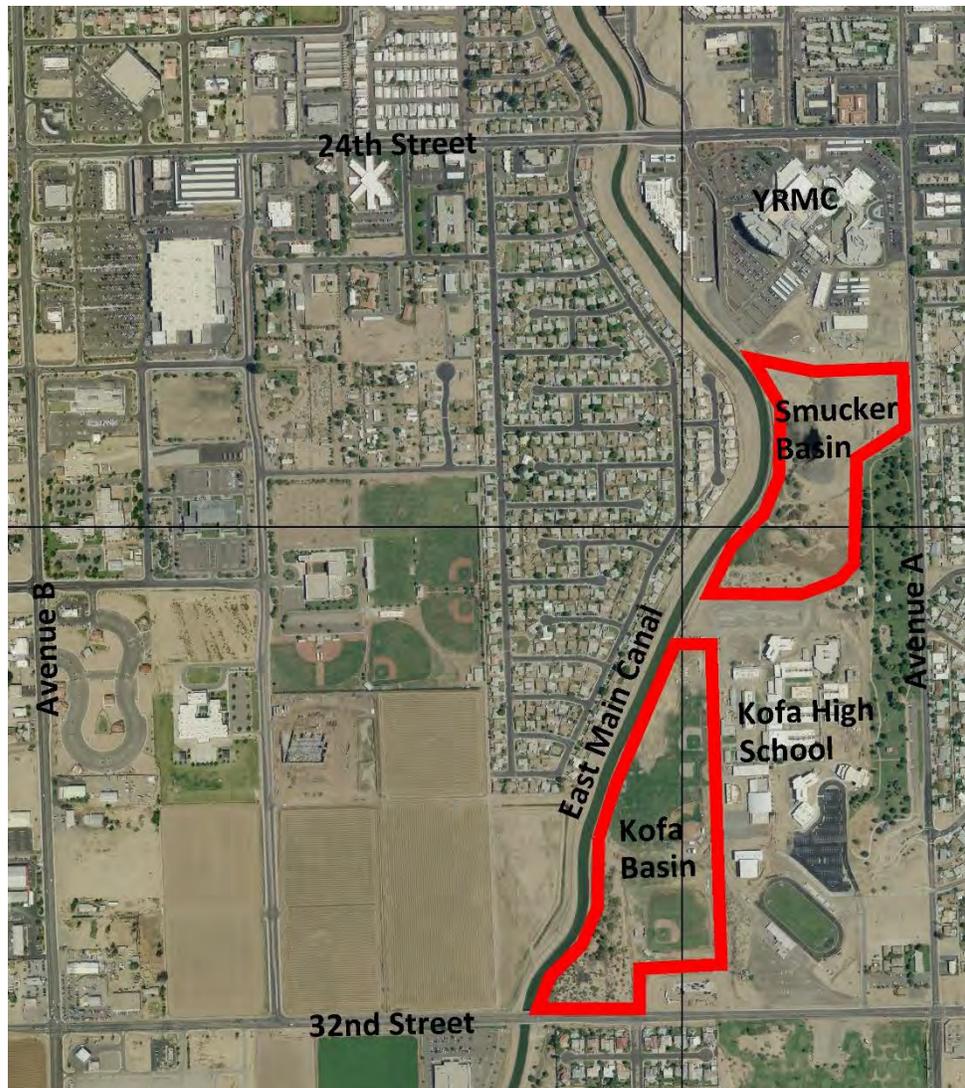
No.	Project
12-49P	<p>Master Drainage Plans Countywide</p> <p>Need: Up-to-date master drainage plans are needed to plan for future drainage development.</p> <p>Risk: Drainage plans are a risk management activity that helps reduce overall risk in an area by planning drainage development.</p> <p>Recommended Solution: Identify areas that need planning and prepare/update plans.</p> <p>Estimated Cost: \$150,000-750,000 per plan</p> <p>Status: Dateland and Foothills Update master plans complete. Yuma Valley on hold for USBR. Small plans underway for South Somerton and Wellton under separate numbers.</p> <p>Agencies: YCFCD, USBR, Communities, Irrigation Districts</p>



No.	Project
12-51P	<p>12th Avenue and Arena Drive Stormdrain Yuma—12th Avenue to Arena Drive to 9th Place to 12th Street</p>
	<p>Need: Stormwater on steep slopes overtop curbs causing erosion on private property. Risk: Not determined Recommended Solution: Storm sewers are needed north of 12th Street to intercept runoff before it erodes private property along steep street sections. Estimated Cost: \$650,000 Status: City of Yuma is designing improvements for Arena Avenue. Agencies: YCFCD, Yuma</p>



No.	Project
12-63P	<p>Smucker Park Area Drainage Yuma—East Main Canal between 24th St. and 28th St.</p> <p>Need: Limited detention available for development above the canal resulting in uncontrolled discharge to East Main Canal.</p> <p>Risk: A large number of moderate and high-risk needs. Hundreds of homes affected by this project.</p> <p>Recommended Solution: A regional retention basin is needed to control discharges.</p> <p>Estimated Cost: \$8,700,000</p> <p>Status: Smucker Park has been designed and plan approval has been received from ADWR. City has acquired needed land and easements. The completion of this project affects Projects 12-15 and 12-20. City has been providing requested documents needed to bid the project. Project construction is scheduled to go out to bid tentatively by March 30th, 2018</p> <p>Agencies: YCFCD, YCWUA, Yuma, YUHSD</p>



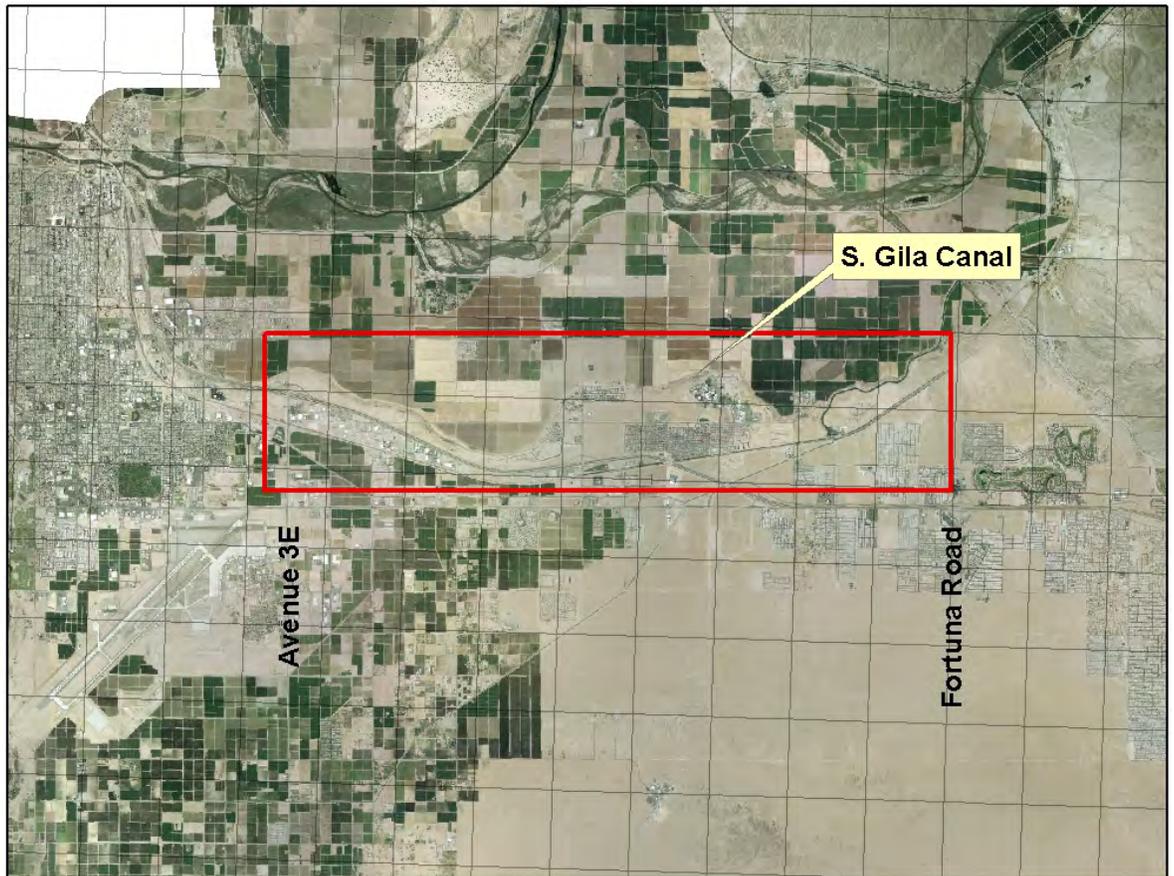
No.	Project
12-66P	<p data-bbox="313 222 959 262">Wellton - County 14th Street Sheet Flow</p> <p data-bbox="313 262 1005 296">Wellton - County 14th Street between Avenue 25 and 28 E</p> <p data-bbox="313 296 1466 369">Need: Shallow sheet flows from the bombing range cause damage to landscaping and the surface between Avenue 25 and 28 E.</p> <p data-bbox="313 369 1271 405">Risk: Low risk from moderate hazard to <10 residences and infrastructure.</p> <p data-bbox="313 405 1531 478">Recommended Solution: Continue discussions with MCAS to permit Improvement District to make drainage improvements.</p> <p data-bbox="313 478 662 514">Estimated Cost: \$400,000</p> <p data-bbox="313 514 1531 588">Status: MCAS and District have met on site to review conditions. District requested a meeting with MCAS.</p> <p data-bbox="313 588 862 623">Agencies: YCFCD, Yuma County, MCAS</p> 

No.	Project
12-70P	<p data-bbox="313 216 630 256">Business 8 Flooding</p> <p data-bbox="313 256 544 296">Yuma—4th Avenue</p> <p data-bbox="313 296 1528 443">Need: The B-8 improvements, completed in 1999, ended at Chiquita Drive. Retention basins or extension of the B-8 line is needed. Surface drainage improvements have occurred with new commercial development but older businesses are still threatened by flooding. Evaluation of 4th Avenue needed.</p> <p data-bbox="313 443 521 478">Risk: Uncertain</p> <p data-bbox="313 478 954 514">Recommended Solution: Design concept report.</p> <p data-bbox="313 514 1081 550">Estimated Cost: \$75,000 for study (\$2,000,000 for project)</p> <p data-bbox="313 550 610 585">Status: Not Addressed</p> <p data-bbox="313 585 656 621">Agencies: YCFCD, Yuma</p> <div data-bbox="493 680 1349 1766" data-label="Image"> </div>

No.	Project
12-72P	<p>South Frontage Road Retention Basin Foothills—South Frontage Road</p> <p>Need: The East Mesa Area Drainage Study and Foothills Master Drainage Plan Update identify the need for additional retention along South Frontage Road.</p> <p>Risk: Drainage improvements in the Foothills require an outfall. This basin provides some of the drainage for South Frontage Road and regional drainage.</p> <p>Recommended Solution: Purchase available land suitable for retention, expand existing basins and construct with South Frontage Road Improvements.</p> <p>Estimated Cost: \$450,000</p> <p>Status: Land has been purchased and cleared for a retention basin on South Frontage Road. Basin will be constructed with roadway improvements.</p> <p>Agencies: YCFCD, Yuma County</p>



No.	Project
12-73P	<p>South Gila Canal Underdrains South Gila Canal east of Ave. 3E</p> <p>Need: The underdrains are clogged and the extent of the resulting problem needs to be determined. Maintenance needed.</p> <p>Risk: Low risk of water backing up against canal and causing failure.</p> <p>Recommended Solution: Observe the extent of the resulting flooding. If necessary, prepare design concept.</p> <p>Estimated Cost: \$1000,000</p> <p>Status: Not Addressed</p> <p>Agencies: Yuma Irrigation District</p>

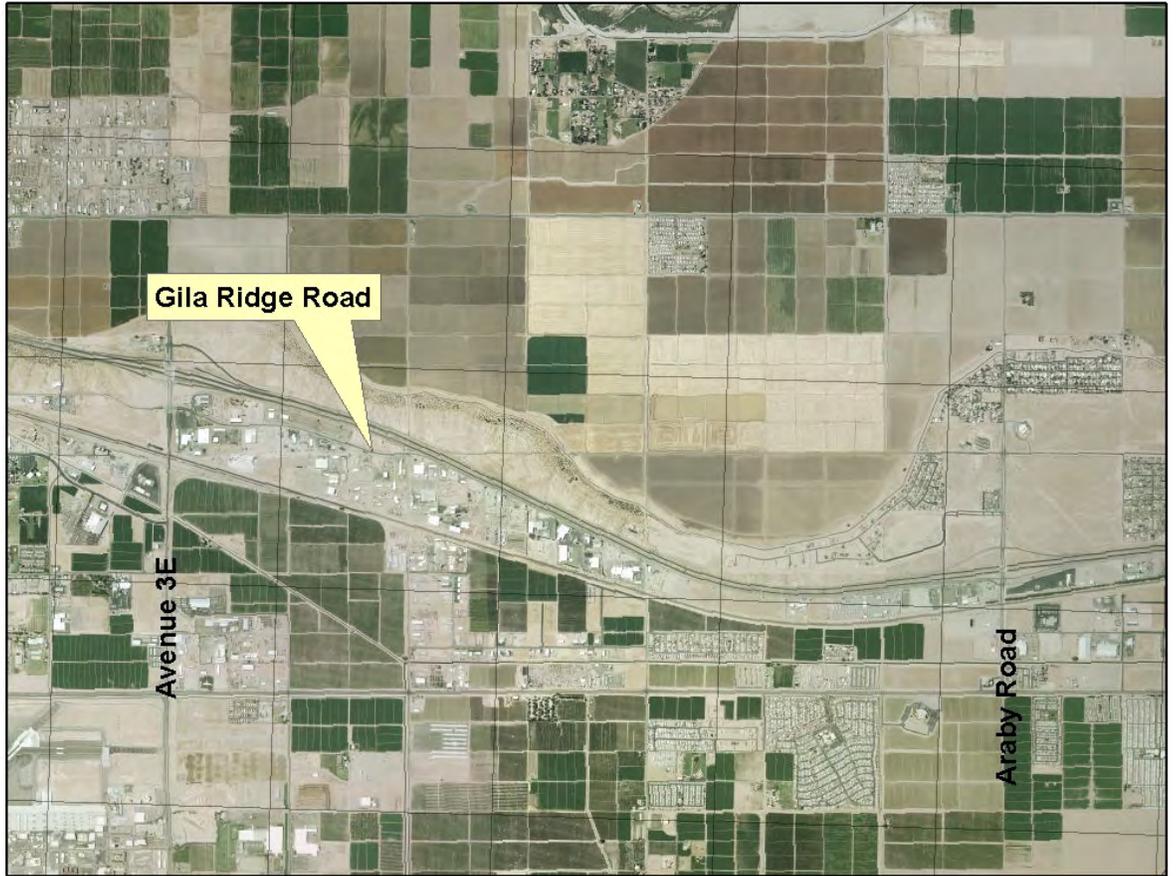


No.	Project
12-75P	<p>Avenue 10 E & Co. 10 ½ Street (Avenida Compadres Area) Avenue 10 E & Co. 10½ St.</p> <p>Need: Flows from failed on-site retention in the area causes flooding in Tuscany Manufactured Home Park and along Avenida Compadres.</p> <p>Risk: Less than 20 homes at risk from moderate damage.</p> <p>Recommended Solution: Increase the size of the Southern Sands Basin and construct a drainage system to intercept additional runoff.</p> <p>Estimated Cost: \$500,000</p> <p>Benefit/Cost: <1.0</p> <p>Status: Basin was purchased for back taxes. Project on hold pending North Frontage Road improvements and additional needs.</p> <p>Agencies: YCFCD</p>



No.	Project
12-76P 12-77P	<p>Avenue 7E and Araby Road Drainage Improvements Avenue 7E & South Gila Canal</p>
	<p>Need: Runoff from Avenue 7E and Araby Road are flowing uncontrolled into South Gila Canal.</p> <p>Risk: Low to moderate risk of damage to canal or roads. Canal damage could result in severe damage to a few homes below canal.</p> <p>Recommended Solution: Construct drainage channel or drain to direct runoff from Avenue 7E and Araby Road away from South Gila Canal to retention areas.</p> <p>Estimated Cost: \$300,000</p> <p>Status: Not Addressed</p> <p>Agencies: YCFCD, Yuma</p>
	

No.	Project
12-78P	<p>Gila Ridge Road Drainage Improvements Gila Ridge Road & Avenue 5½ E Alignment</p> <p>Need: Improvements to existing drainage structures are required due to localized ponding. Risk: Low risk of flooding primarily in right-of-way Recommended Solution: The existing storm drain needs to be extended across Gila Ridge Road to allow drainage of the ponding area. Estimated Cost: \$150,000 Status: Not Addressed Agencies: YCFCD, Yuma County</p>

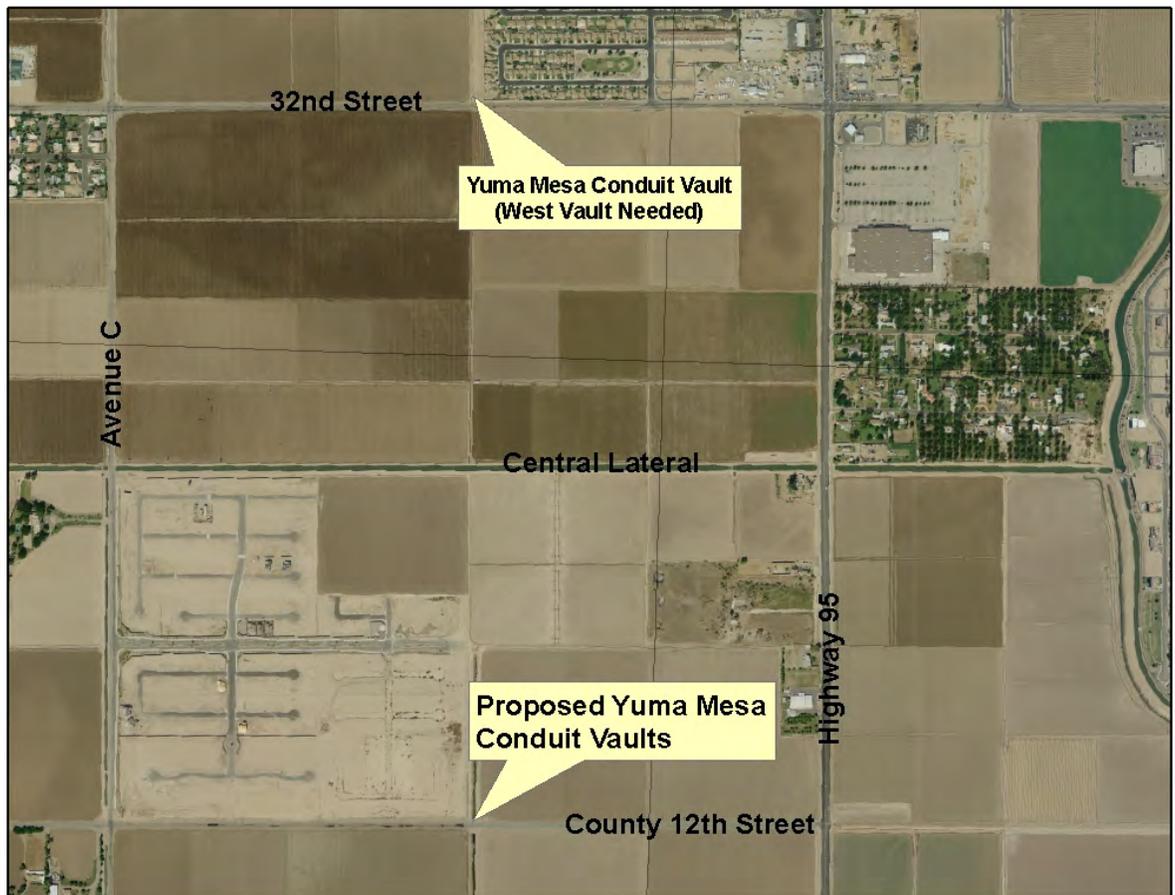


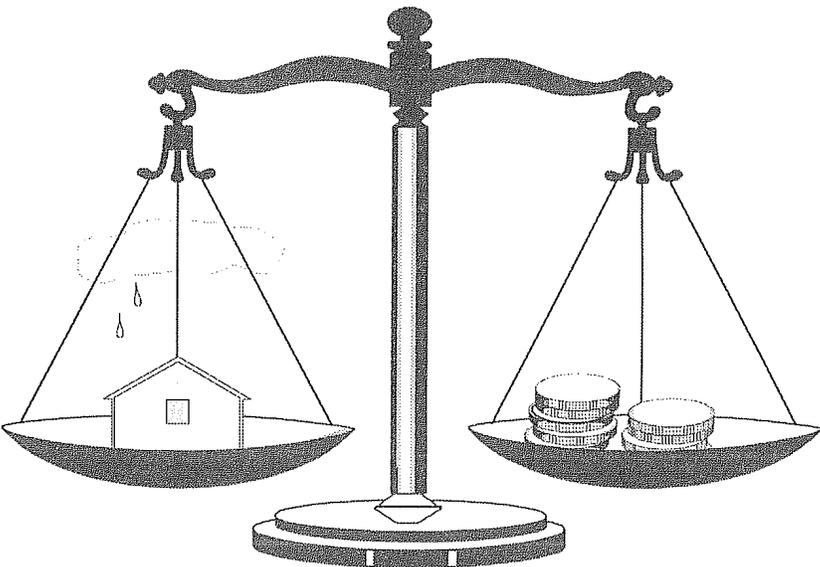
No.	Project
12-79P	<p>Arizona Western College Drainage Improvements Arizona Western College & South Gila Canal</p> <p>Need: Erosion control and drainage improvements are needed to control runoff from the mesa.</p> <p>Risk: Low to moderate risk of damage to canal or roads. Canal damage could result in damages to agricultural land below canal.</p> <p>Recommended Solution: Improved shoulder and drainage along Avenue 8E would decrease erosion.</p> <p>Estimated Cost: \$200,000</p> <p>Status: Not Addressed</p> <p>Agencies: YCFCD, Yuma, AWC</p>
	 <p>The image is an aerial photograph of a rural area. A yellow callout box with a pointer indicates the 'Avenue 8E S. Gila Canal Crossing'. Below this, the 'Arizona Western College' campus is visible, including several buildings and a baseball field. To the right of the college, 'Otondo Drive' is labeled. The surrounding landscape consists of large, flat agricultural fields, some of which are green, and a winding canal system.</p>

No.	Project
12-80P	<p>San Luis Area Drainage - Phase I COMPLETE, Phase II – Out to bid San Luis Mesa</p> <p>Need: Older sections of San Luis have insufficient drainage due to construction occurring before standards.</p> <p>Risk: High risk to over 50 homes of moderate damage due to homes built at or below street grade. New Port of Entry may need additional drainage.</p> <p>Recommended Solution: Area Drainage Study has identified the need for a storm drain system discharging to a regional basin along the international boundary west of Highway 95.</p> <p>Estimated Cost: \$1,250,000</p> <p>Benefit/Cost: >1.0 (Provides a discharge for the San Luis Mesa area)</p> <p>Status: Phase I Construction Complete. Phase II – Design Complete and construction will go out to bid by February 28th, 2018.</p> <p>Agencies: YCFCD, San Luis, ADOT</p>



No.	Project
12-81P	<p>Yuma Mesa Conduit Vaults Yuma Valley at Co. 11th & 12th Street</p> <p>Need: Connection vaults are needed at these locations for future connections in accordance with the Yuma Valley Master Plan.</p> <p>Risk: Long-term health risk for no disposal of retained stormwater for the areas served by the proposed connections.</p> <p>Recommended Solution: Coordinate with USBR to determine capacity and construct vaults.</p> <p>Estimated Costs: \$150,000</p> <p>Status: USBR is evaluating conduit capacity and water quality issues prior to permitting connections. The Yuma Valley Master Drainage Plan is being updated to redirect drainage toward the Valley Drain System. This area has access to both systems.</p> <p>Agencies: YCFCD, YCWUA, USBR</p>



No.	Project
12-82P	<p>Mitigation Fund Countywide Floodplains</p> <p>Need: A fund/process is needed to purchase and remove structures from the floodplain when the cost is less than other flood control mitigation.</p> <p>Risk: High, imminent risk to structures.</p> <p>Recommended Solution: Provide funding and develop guidelines for use of funds for mitigation. This fund would be used to pay to remove at-risk structures from the floodplain instead of paying for structural protection. Staff needs to prepare a draft mitigation plan for review.</p> <p>Estimated Costs: \$500,000 (Recurring)</p> <p>Status: No action</p> <p>Agencies: YCFCD</p>
	

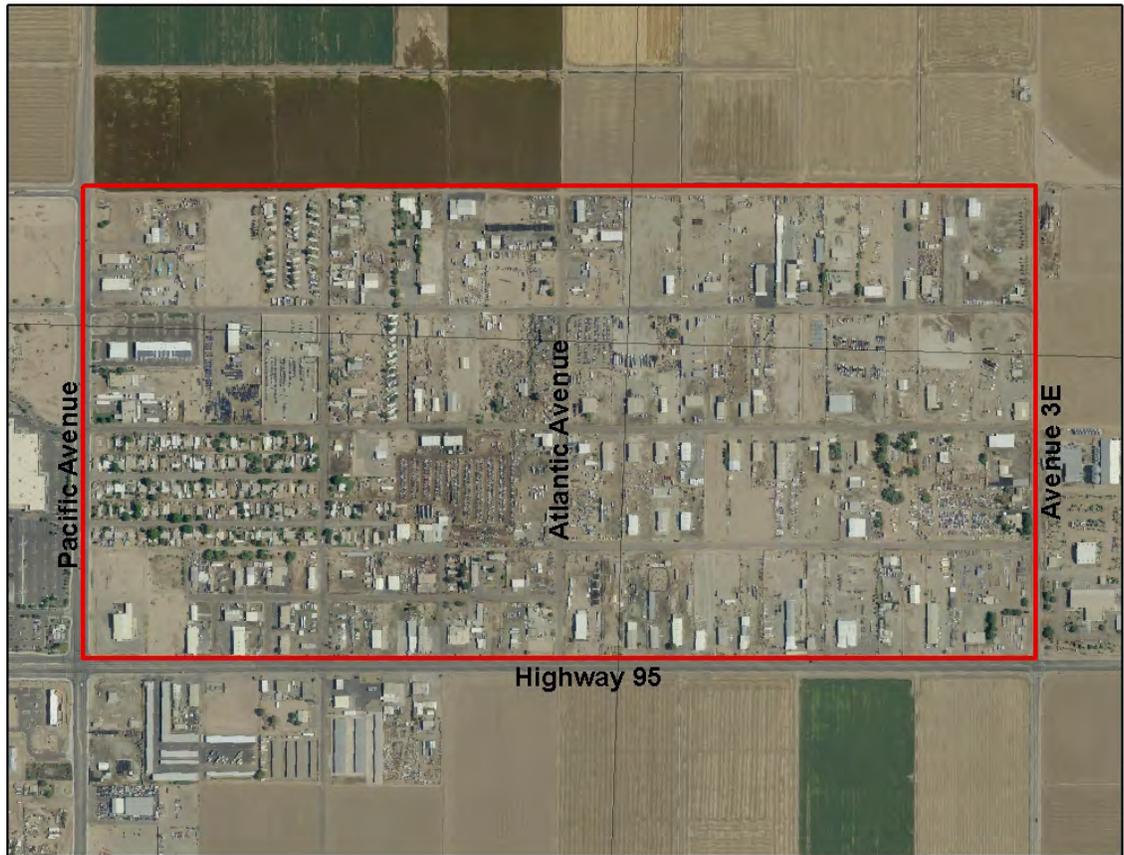
No.	Project
12-84P	<p>Basin Lands & Maintenance Countywide</p> <p>Need: Additional basins are needed to rehabilitate areas with failing drainage and accommodate future development.</p> <p>Risk: Purchasing basin lands when land is available is cheaper than purchasing developed land. Maintenance needed to prevent deterioration of basins.</p> <p>Recommended Solution: Purchase of land to set aside for retention basins. Land needed along East Main Canal.</p> <p>Estimated Cost: \$180,000/acre</p> <p>Status: Basin lands have been acquired along North Frontage Road, Somerton, Gadsden, Foothills, and Yuma. Basins improved at Sunset Mesa and Vista Del Valle. Basins complete in Gadsden. North Frontage Road basin easements being acquired.</p> <p>Agencies: YCFCD</p>
	

No.	Project
12-86P	Gadsden Area Drainage Gadsden
	<p>Need: Gadsden has ponding and localized flooding after storms.</p> <p>Risk: Moderate to high risk of flooding throughout Gadsden. Assessment study complete.</p> <p>Recommended Solution: An area drainage study is needed to identify the extent of flooding and recommend an overall solution for Gadsden. An alternate is to include Gadsden drainage into a new San Luis drainage system.</p> <p>Estimated Cost: \$7,000,000</p> <p>Status: Basin is complete in Gadsden. An outfall to the Bypass Drain or Colorado River is recommended by the draft Yuma Valley Master Plan Update.</p> <p>Agencies: YCFCD, Yuma County</p>



No.	Project
12-88P	<p>Yuma Valley Master Drainage Plan Update - ON HOLD Yuma Valley</p>
	<p>Need: The Yuma Valley Master Drainage Plan is 20 years old. During the past two decades, many improvements have been constructed to address the identified drainage needs. An update to the master plan is needed to identify existing and future drainage needs and recommend improvement alternatives.</p> <p>Risk: Due to the age of the study, assumption and conditions of plan need to be reviewed and the area restudied to determine continued effectiveness.</p> <p>Recommended Solution: Update the Yuma Valley Master Plan including coordination with YCWUA, USBR, Yuma, Somerton and San Luis. (No new aerial photography)</p> <p>Estimated Cost: \$450,000</p> <p>Status: Final Draft Study is complete. Coordinating review with USBR</p> <p>Agencies: YCFCD, USBR, YCWUA, Municipalities</p>
	 <p>The image is an aerial photograph of the Yuma Valley region. A red line outlines the 'Yuma Valley Study Area'. Three yellow labels with black text are overlaid on the map: 'Yuma' is located in the upper central part of the study area; 'Yuma Valley Study Area' is centered within the red outline; and 'San Luis' is located at the southern edge of the study area. The terrain shows a mix of urban development, agricultural fields, and natural landscape features.</p>

No.	Project
12-90P	<p>Atlantic Avenue Area Drainage Study Atlantic Avenue north of Highway 95 Vicinity</p> <p>Need: The Atlantic Avenue area has developed prior to development standards. Paved roads did not address drainage resulting in runoff ponding adjacent to road.</p> <p>Risk: Moderate risk to road improvements.</p> <p>Recommended Solution: Prepare an area drainage study to identify the extent of flooding and recommend an overall solution for the area.</p> <p>Estimated Cost: \$5,000,000</p> <p>Status: No activity</p> <p>Agencies: YCFCD, Yuma County</p>



No.	Project
12-91P	<p>Yuma East Flooding - ON HOLD Yuma East, Units 3 & 4 near Mesa Drive.</p> <p>Need: Failed on-site retention and homes at or below street grade results in flooding of streets and some yards and mobile home pits.</p> <p>Risk: Greater than 20 homes are at risk of moderate flooding.</p> <p>Recommended Solution: Improvement District needed to fund improvements.</p> <p>Estimated Cost: \$750,000</p> <p>Status: Design Concept Report is complete. Project on hold until property owners propose funding mechanism.</p> <p>Agencies: YCFCD, Yuma County</p>



No.	Project
12-92P	<p>Desert Air Estates, Unit 1 & 2 and Country Life Mobile Estates Flooding - ON HOLD Desert Air Estates, Units 1 & 2 and Country Life Mobile Estates Subdivisions near Avenue 9E.</p> <p>Need: Failed on-site retention and homes at or below street grade results in flooding of streets and some yards and mobile home pits.</p> <p>Risk: Greater than 20 homes are at risk of moderate flooding.</p> <p>Recommended Solution: Prepare a conceptual design to identify drainage options.</p> <p>Estimated Cost: \$1,000,000</p> <p>Status: Design Concept Report is complete. Project on hold until property owners propose funding mechanism.</p> <p>Agencies: YCFCD, Yuma County</p>



No.	Project
12-94P	<p data-bbox="313 254 828 289">South Somerton Drainage Evaluation</p> <p data-bbox="313 289 706 325">Somerton – South of Main Street</p> <p data-bbox="313 325 1396 399">Need: City of Somerton has identified the need for improved drainage and discharge facilities.</p> <p data-bbox="313 399 1453 472">Risk: Localized ponding and no discharge system results in insect problems and reduced capacity for back-to-back storms.</p> <p data-bbox="313 472 1023 508">Recommended Solution: Need has not been evaluated</p> <p data-bbox="313 508 690 543">Estimated Cost: \$3,000,000</p> <p data-bbox="313 543 1477 579">Status: Facility Inventory and Drainage Study are complete. Project is advanced to design.</p> <p data-bbox="313 579 803 615">Agencies: YCFCD, City of Somerton</p> <div data-bbox="516 709 1312 1785" style="text-align: center;"> <p data-bbox="820 961 982 997">Main Street</p> <p data-bbox="690 1228 722 1438">Avenue F</p> <p data-bbox="950 1144 982 1417">Somerton Avenue</p> </div>

No.	Project
12-95P	<p>Farwest Storm Drain System Foothills - North of Co. 12th Street and West of Foothills Blvd.</p> <p>Need: Foothills Master Plan identified need for storm drain for Bonnie Avenue and adjoining streets and discharge to Far West Basin.</p> <p>Risk: Moderate risk due to low impact to >50 residences.</p> <p>Recommended Solution: Storm drain along Bonnie Avenue and adjacent streets discharging to Far West Basin. Local drainage improvements can be added with road improvements.</p> <p>Estimated Cost: \$3,500,000</p> <p>Status: Design 100% complete. Project construction is scheduled to go to bid by March 30th, 2018.</p> <p>Agencies: YCFCD, Yuma County</p>



No.	Project
12-98P	<p>County 14th Street - Mesa Dunes Subdivision Yuma Mesa - Co. 14th Street and Avenue 7E</p> <p>Need: Localized flooding due to uncontrolled runoff from the bombing range. Risk: Moderate risk due to low impact to >50 residences. Recommended Solution: Coordinate evaluation with MCAS. Estimated Cost: \$350,000 Status: New Project Agencies: YCFCD, Yuma County, MCAS</p>
	

No.	Project
12-99P	<p>Hettima Subdivision Street Ponding Yuma - 16th Street and East Main Canal</p> <p>Need: Inadequate street gutters prevent drainage from draining to 16th Street per subdivision design resulting in ponding at intersections.</p> <p>Risk: Low risk due to low impact to <20 residences and streets.</p> <p>Recommended Solution: Replace gutters as needed and install cross gutters to release drainage to 16th Street.</p> <p>Estimated Cost: \$150,000</p> <p>Status: New Project</p> <p>Agencies: YCFCD, Yuma County</p>



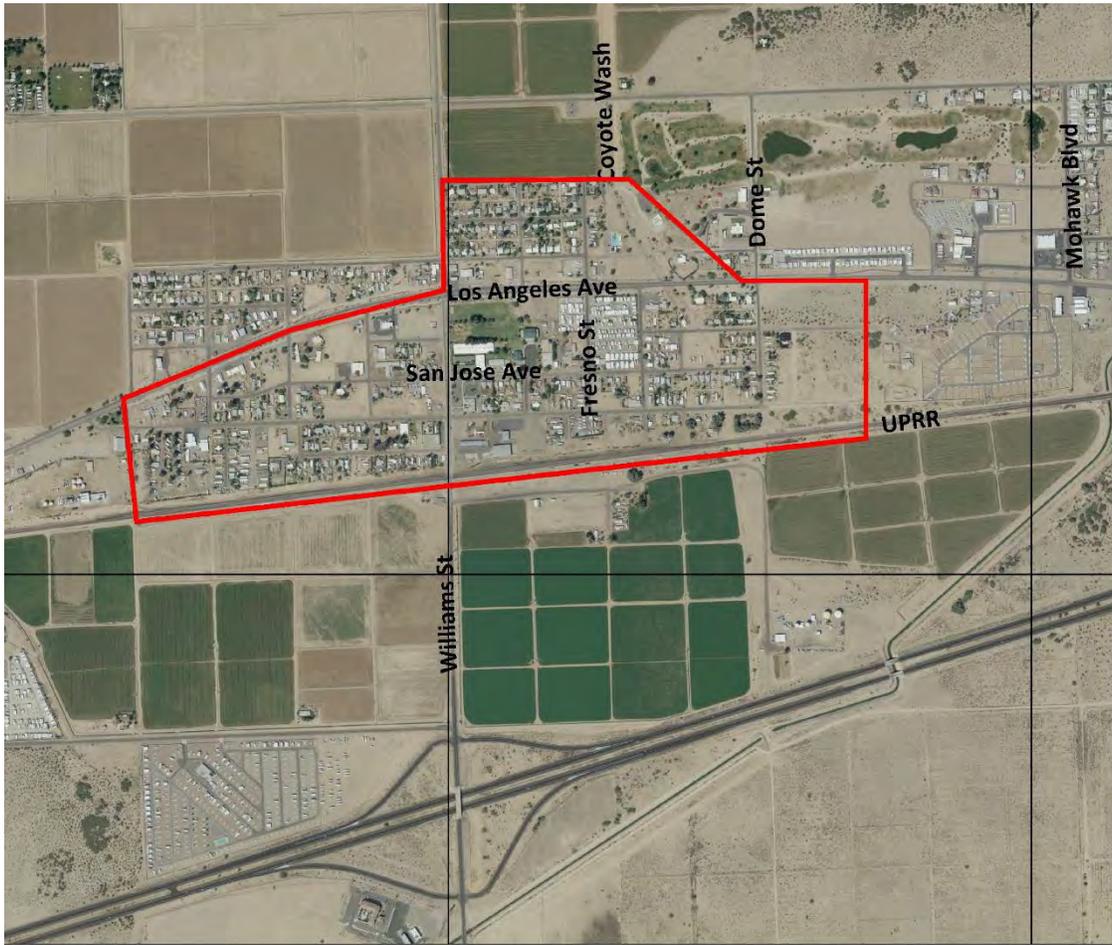
No.	Project
12-100P	<p>San Luis Basin Discharge System San Luis - Merrill Avenue and Los Oros Street</p> <p>Need: Subdivision basins lack discharge facilities resulting in insects and reduced capacity for back-to-back storms. Future development in the valley will also lack method of discharge.</p> <p>Risk: Moderate risk due to low impact to >30 residences.</p> <p>Recommended Solution: Evaluate extending Merrill Avenue system to drain Rio Sonora St. basins. Drainage Plan for valley between developed San Luis and Gadsden to prepare for future development.</p> <p>Estimated Cost: \$250,000</p> <p>Status: Discussion has occurred with City identifying the need to connect Rio Sonora St. basins sooner than drainage plan would allow due to planned road improvements.</p> <p>Agencies: YCFCD, San Luis</p>

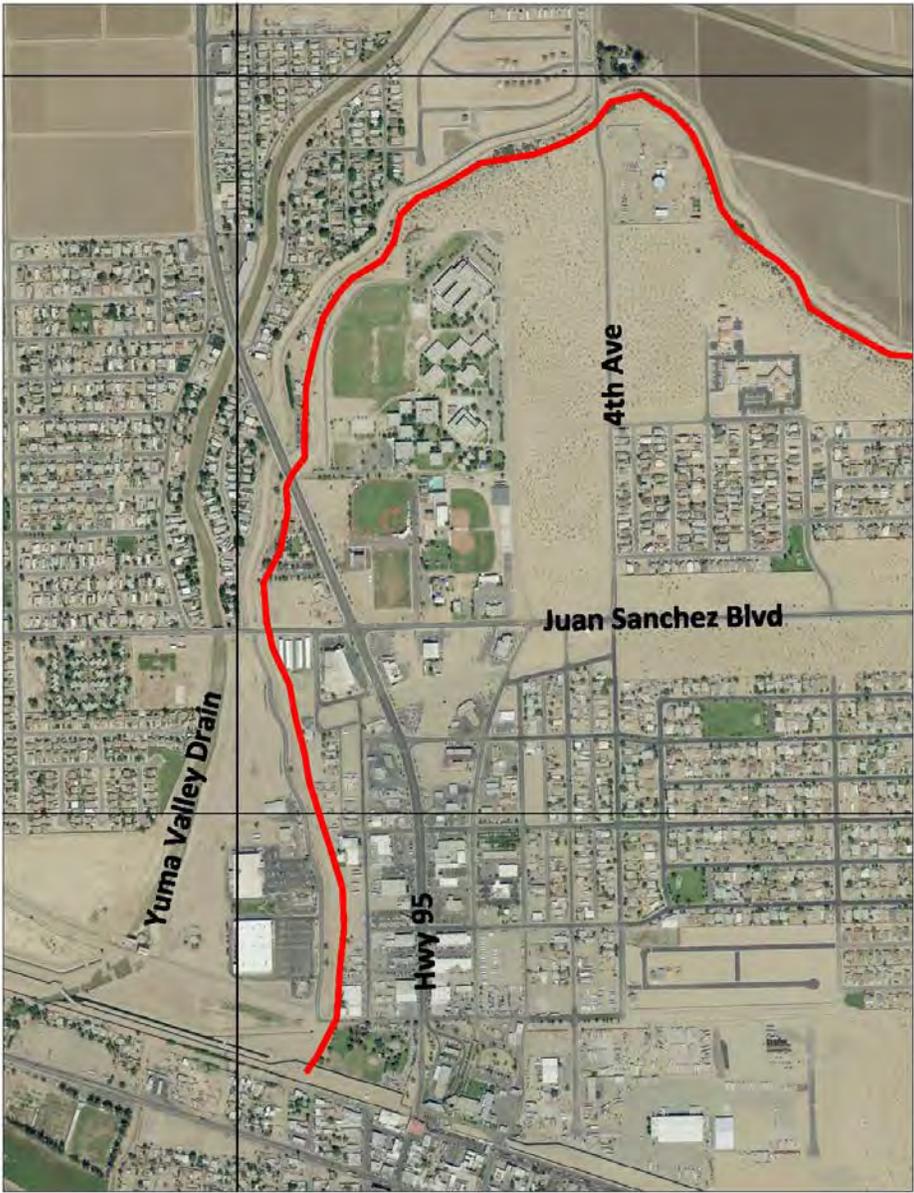


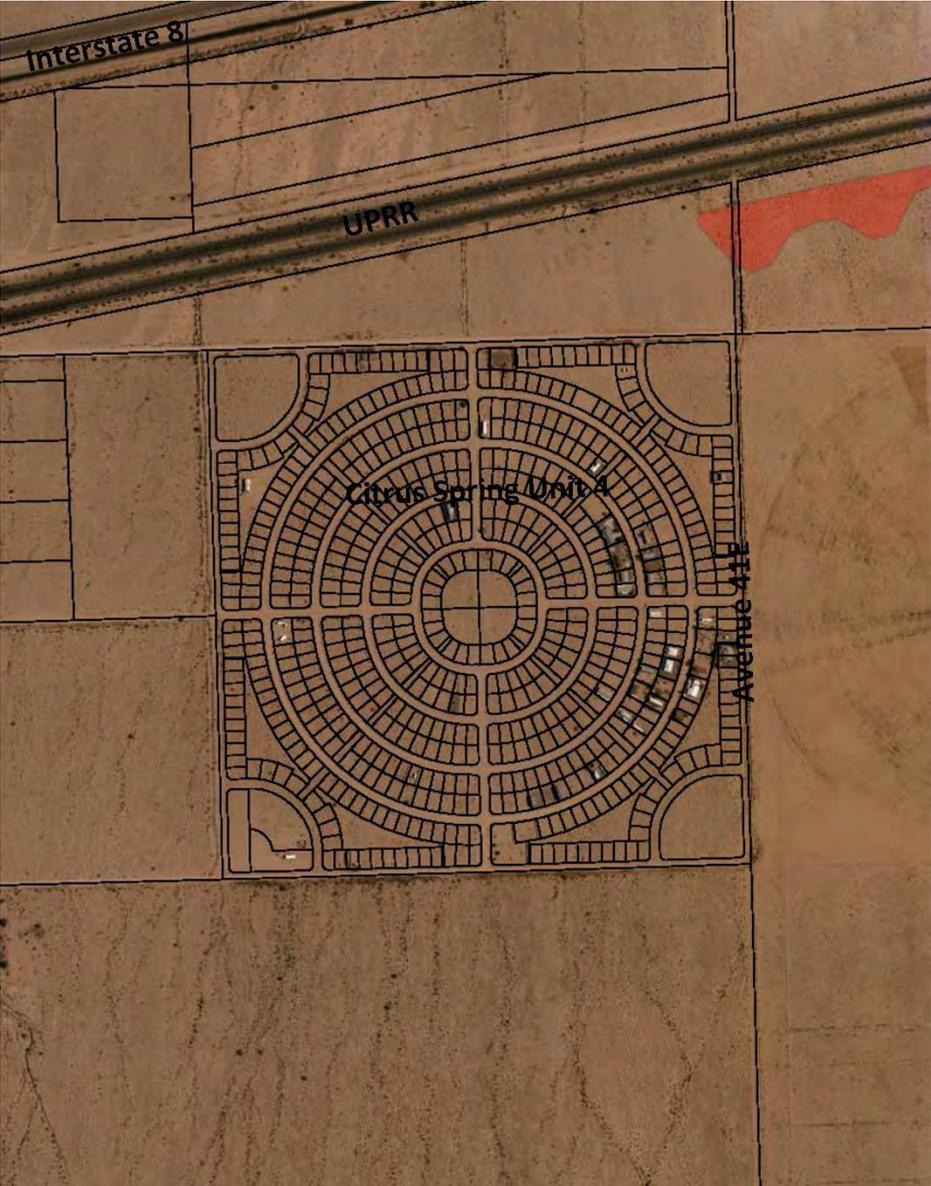
No.	Project
12-101P	<p>Yuma 44th Drive Basin Discharge Yuma - 15th Street and 44th Avenue</p> <p>Need: Subdivision retention basin has no discharge system. Risk: Low risk due to low impact to <10 residences. Recommended Solution: Construct discharge system to irrigation lateral. Estimated Cost: \$150,000. Status: No progress. Agencies: YCFCD, Yuma</p>
	

No.	Project
12-102P	<p>Coyote Wash Channelization Wellton - Coyote Wash</p> <p>Need: The Coyote Wash channel is not well defined within Wellton, increasing the floodplain width.</p> <p>Risk: Moderate risk due to moderate impact to <20 residences.</p> <p>Recommended Solution: Evaluate channelization of Coyote Wash.</p> <p>Estimated Cost: \$1,500,000</p> <p>Status: Evaluated with Wellton Study. Project is advanced to design.</p> <p>Agencies: YCFCD, WMIDD, Wellton</p>



No.	Project
12-103P	Wellton Drainage Improvements Wellton - Various Locations
	<p>Need: Ponding at intersections and low lying areas in Wellton. Town has also identified drainage needs along roads. Channelization of Coyote Wash</p> <p>Risk: Low risk due to low impact to >10 residences each.</p> <p>Recommended Solution: Evaluate need</p> <p>Estimated Cost: \$5,000,000</p> <p>Status: Study is complete. Project is advanced to design.</p> <p>Agencies: YCFCD, Wellton</p>
	

No.	Project
12-104P	<p>San Luis Mesa Erosion San Luis - 4th Avenue to International Boundary</p> <p>Need: Uncontrolled runoff is eroding the side of the mesa.</p> <p>Risk: Moderate risk due to sedimentation in the Yuma Valley Drain.</p> <p>Recommended Solution: Evaluate flood potential along mesa.</p> <p>Estimated Cost: \$1,500,000.</p> <p>Status: No progress</p> <p>Agencies: YCFCD, YCWUA, San Luis</p>
	 <p>The image is an aerial photograph of a residential and commercial area in San Luis, Arizona. A prominent red line is drawn along the edge of a mesa, indicating the area of erosion. The red line starts near the bottom left, runs north along the western side of the mesa, and then curves east towards the top right. Key landmarks and roads are labeled: 'Yuma Valley Drain' is labeled vertically on the left side; 'Hwy 95' is labeled vertically in the lower center; 'Juan Sanchez Blvd' is labeled horizontally in the center; and '4th Ave' is labeled vertically on the right side. The area shows a mix of residential housing, commercial buildings, and open fields. The erosion appears to be a significant gully cutting through the mesa's edge.</p>

No.	Project
12-105P	<p>Tacna - Citrus Park Unit 4 Sheet Flow Tacna - Avenue 41E Alignment</p>
	<p>Need: Private roads are flooding from uncontrolled sheet flow from the south. Risk: Eroded or flooded roads will make properties inaccessible. <1.0. Recommended Solution: Private road improvements including drainage to address problem. Estimated Cost: \$1,500,000 Status: New Project - No further action until homeowners propose improvement district or other financial proposal. Agencies: YCFCD, Yuma County</p>
	

No.	Project
12-106P	<p>West Yuma Mesa Outfall Yuma - Along East Main Canal</p> <p>Need: The basins along the West Yuma Mesa drain into the East Main Canal which results in comingling of stormwater into irrigation water. The canal also has limited capacity to convey stormwater when carrying irrigation water which will prolong drain times from the basins. A dedicated outfall draining to the Colorado River or Yuma Valley drain system would increase discharge capacity.</p> <p>Risk: Moderate risk to >1,000 residences and businesses from repetitive storms.</p> <p>Recommended Solution: Construct force main outfall to drain basins.</p> <p>Estimated Cost: \$2,500,000</p> <p>Status: Discussions have occurred with USBR</p> <p>Agencies: YCFCD, USBR, YCWUA, Yuma</p>



No.	Project
12-107P	<p>Airport Loop Road Drainage Improvements Yuma - Airport Loop Road/MCAS</p> <p>Need: Uncontrolled runoff from the runway extension is leaving MCAS and flowing across the Airport Loop Road and into the Yuma Valley.</p> <p>Risk: Moderate risk to Agricultural Land</p> <p>Recommended Solution: Construct retention basin on MCAS.</p> <p>Estimated Cost: \$600,000</p> <p>Status: City of Yuma has contacted MCAS</p> <p>Agencies: City of Yuma, MCAS</p>
	

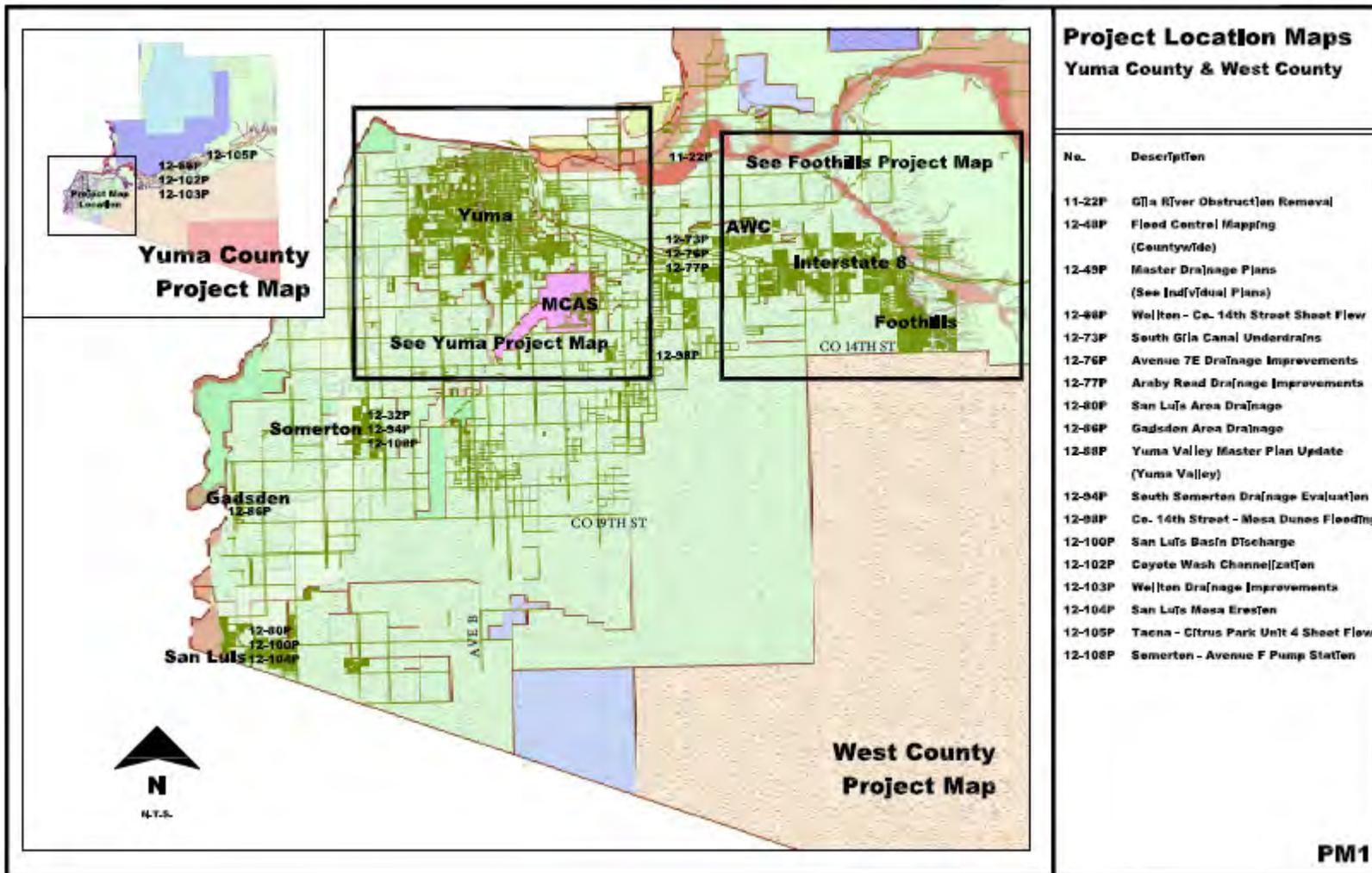
No.	Project
12-108P	<p>Avenue F Pump Station - Somerton Somerton - Avenue F North of Main Street</p> <p>Need: Avenue F basin is the terminal discharge point for most of Somerton's stormwater. Currently, the basin discharges by gravity to the valley drain system.</p> <p>Risk: Moderate risk to >1,000 residences and businesses from repetitive storms.</p> <p>Recommended Solution: Construct force main outfall to drain basins.</p> <p>Estimated Cost: \$25,000</p> <p>Status: New Project</p> <p>Agencies: YCFCD, Somerton, YCWUA</p>
	

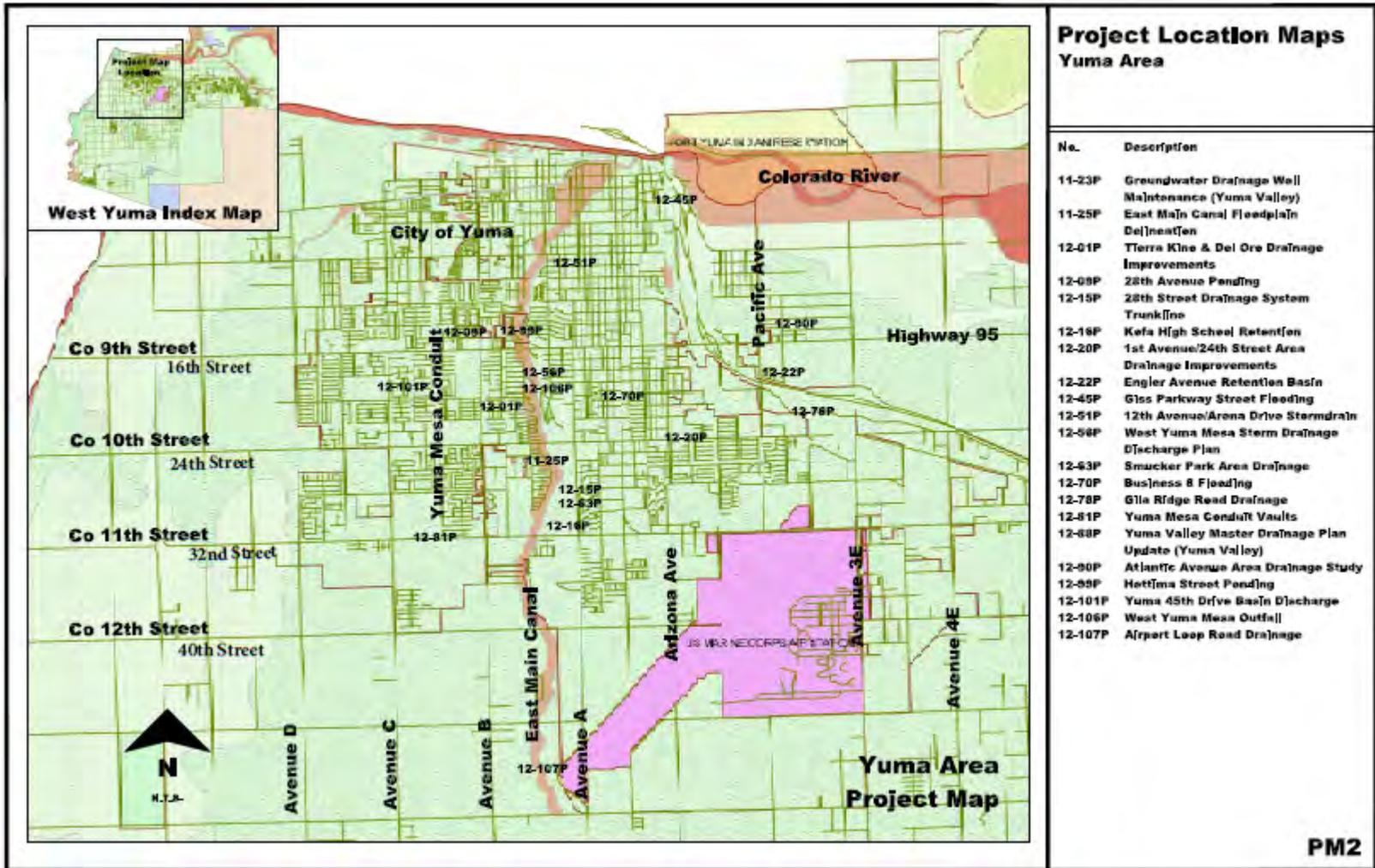
APPENDIX B

Project Location Maps

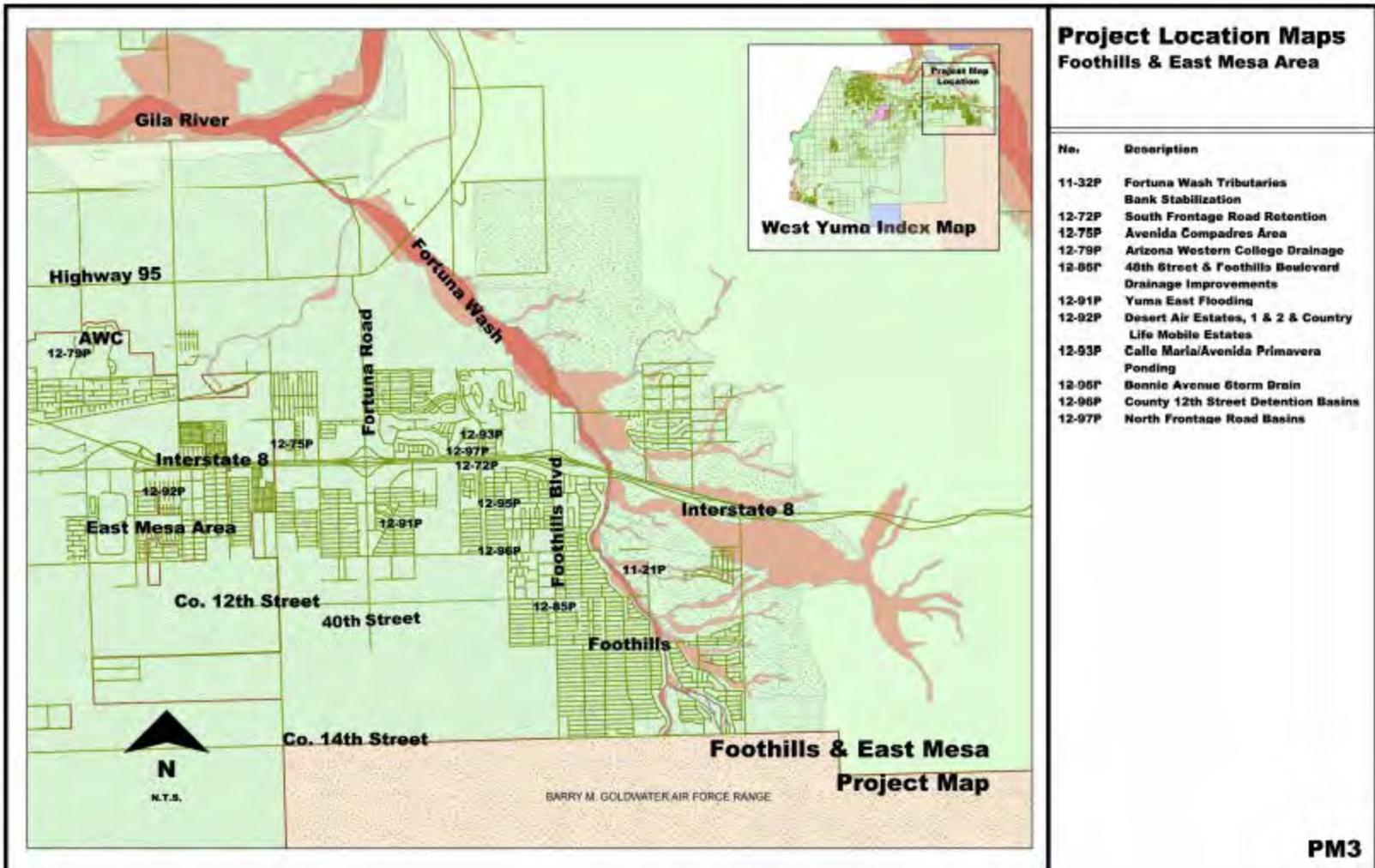
List of Project Location Maps

West County Project Map	PM1
Yuma Area Project Map	PM2
Foothills & East Mesa Project Map	PM3





PM2



APPENDIX - C

Project Completed in FY18

12-56P	West Yuma Mesa Storm Drainage Discharge Plan	1
12-85P	48 th Street & Foothills Blvd. Drainage Improvements	2
12-93P	Calle Maria/Avenida Primavera Ponding	3
12-97P	North Frontage Road Retention Basins	3

No.	Project (COMPLETED)
12-56P	West Yuma Mesa Storm Drainage Discharge Improvements Yuma—East Main Canal between 1 st St and Co. 14 th Street.
<p>Need: Planned improvements are not complete. IGA needed between the City of Yuma and YCWUA. The East Main Canal does not meet FEMA requirements for a certified flood control structure due to limited freeboard.</p> <p>Risk: High, mid-term risk of East Main Canal being flooded and cascading into Yuma Valley and flooding homes.</p> <p>Recommended Solution: Planned improvements include additional spillways and retention basins. Upon completion of the East Yuma Mesa CLOMR, the City of Yuma and YCWUA IGAs for operations and maintenance needed.</p> <p>Estimated Cost: \$1,500,000</p> <p>Status: Construction plans are complete for remaining improvements recommended by West Yuma Mesa Storm Drainage Discharge System Reports. Magnolia, Sunset Mesa, and Vista del Valle Basins expanded. Construction are complete for 6 1/2 Street and 12th Avenue basins.</p> <p>Agencies: YCFCD, YCWUA, Yuma</p>	



No.	Project (COMPLETED)
12-85P	<p>48th Street & Foothills Blvd. Drainage Improvements Foothills Blvd between 48th and 52nd Streets</p> <p>Need: Foothills Blvd runoff is ponding at the intersection of 48th Street and Foothills Blvd. Risk: Fewer than 10 homes and right-of-way affected by moderate flooding. Recommended Solution: Design retention along Foothills Blvd to reduce runoff. Estimated Cost: \$200,000 Status: Design concept report is complete recommending retention within the east right-of-way. Project to be constructed with 48th Street/Foothills Boulevard intersection improvements. Intersection plans underway. Agencies: YCFCD, Yuma County</p>
	

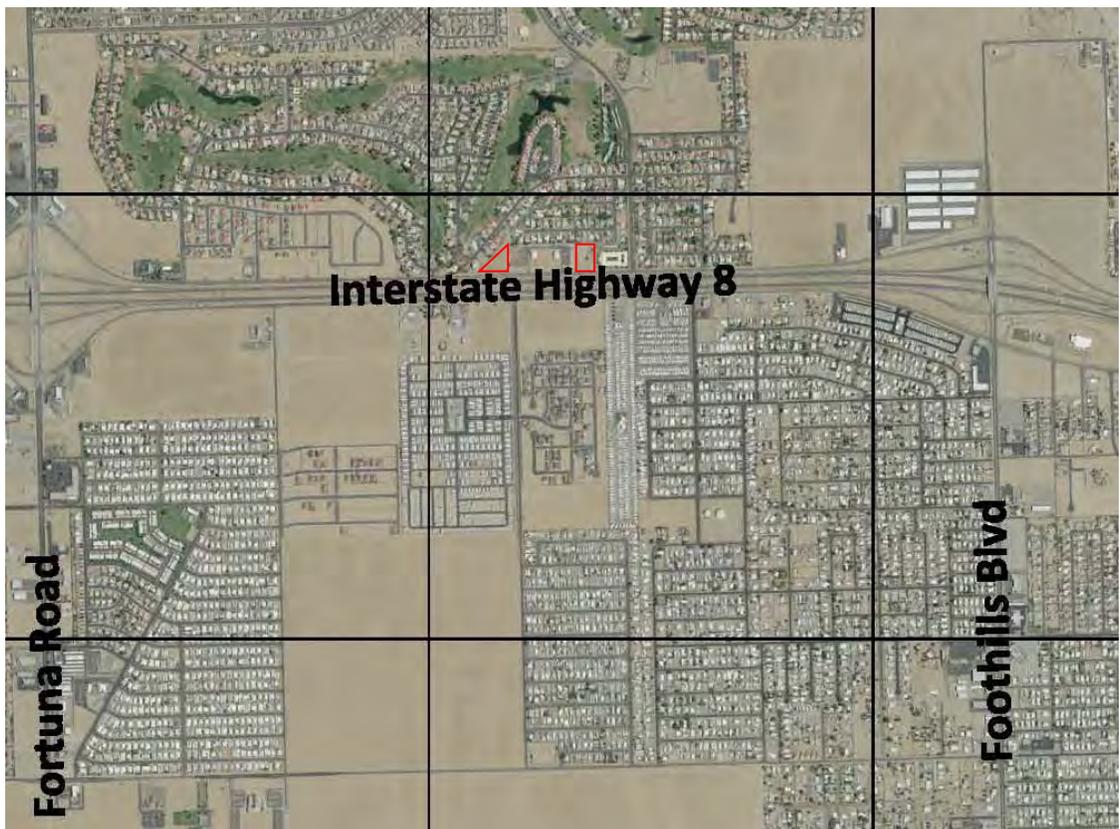
No. **Project (COMPLETED)**

12-93P **Calle Maria/Avenida Primavera Ponding**
Mesa Del Sol Subdivision

Need: Failed on-site retention results in flooding of streets and some yards.
Risk: Four homes are at risk of moderate flooding resulting from excessive drainage entering their property from other lots that do not have adequate onsite retention.
Recommended Solution: Prepare a conceptual design to identify drainage options.
Estimated Cost: \$250,000
Status: Area was included in Foothills Master Plan Update and identified the need for additional retention along North Frontage Road.
Agencies: YCFCD, Yuma County



No.	Project (COMPLETED)
12-97P	<p>North Frontage Road Retention Basins Foothills - North of 40th Street</p> <p>Need: Foothills Master Plan identified need for retention basins along North Frontage Road to capture flows from Interstate Highway 8 and nearby streets.</p> <p>Risk: Moderate risk due to moderate impact to >20 residences.</p> <p>Recommended Solution: Storm drain along North Frontage Road discharging to new basin. Local drainage improvements can be added with road improvements.</p> <p>Estimated Cost: \$200,000</p> <p>Status: Under Construction.</p> <p>Agencies: YCFCD, Yuma County</p>



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AGENDA ITEM 3

FY20-FY24:[FCD]: Proposed Work Plan					FY20					FY21					FY22					FY23					FY24					
CIP No.	PROJECT NAME	Bid Phase	Project Manager	5-YR Total	Planning & Engineering	Real Estate (R/W)	Utilities Relocation	IGAs/ Permits	Construction	Planning & Engineering	Real Estate (R/W)	Utilities Relocation	IGAs/ Permits	Construction	Planning & Engineering	Real Estate (R/W)	Utilities Relocation	IGAs/ Permits	Construction	Planning & Engineering	Real Estate (R/W)	Utilities Relocation	IGAs/ Permits	Construction	Planning & Engineering	Real Estate (R/W)	Utilities Relocation	IGAs/ Permits	Construction	
3.9703	Smucker Park Retention Basin	Q4FY19	Alan Quintero	\$7,200,000	\$250,000				\$3,300,000	\$150,000				\$3,500,000																
3.0103	West Yuma Mesa Storm Drainage Improvements, County 8th-16th St	n/a	Sami Ayoub	\$250,000	\$250,000																									
3.0504	Somerton Area Drainage Improvements	Q4FY19	Sami Ayoub	\$4,293,000						\$30,000				\$3,000,000	\$13,000					\$1,250,000										
3.1004	Foothills Area Drainage Improvements	n/a	Sami Ayoub	\$596,000	\$6,000				\$590,000																					
3.1501-a	Wellton Area Drainage Improvements-Phase 1	Q1FY20	Sami Ayoub	\$1,462,000	\$12,000	\$300,000			\$1,150,000																					
3.1501-b	Wellton Area Drainage Improvements-Phase 2 Coyote Wash	Q2FY20	Sami Ayoub	\$1,490,000	\$90,000	\$500,000			\$900,000																					
3.1601	Gadsden - San Luis Outfall and Basin Discharges - Phase 1	Q2FY22	Sami Ayoub	\$2,135,000	\$250,000										\$20,000	\$500,000	\$200,000			\$15,000	\$50,000				\$1,100,000					
3.1701	NPDES and MS4 Stormwater Discharge, Environmental Retrofit	Q4FY19	Frank Sanchez	\$404,000	\$4,000				\$400,000																					
3.1802	Smucker Park Retention Basin outlet	n/a	Sami Ayoub	\$350,000	\$350,000																									
3.1803	Storm water retention basins	Q3FY20	Frank Sanchez	\$437,000	\$2,000				\$200,000	\$35,000				\$200,000																
3.1804	Facility maintenance	Q2FY20	Frank Sanchez	\$127,000	\$2,000				\$125,000																					
3.1806	28th Street Trunk Line extension from Smucker Basin	n/a	Sami Ayoub	\$720,000	\$240,000										\$5,000									\$475,000						
3.1807	Holly Drive Storm Drainage system to Smucker Park	n/a	Frank Sanchez	\$655,000	\$175,000															\$5,000				\$475,000						
TBD	Mitigation Fund For Purchasing Properties at Significant Risk of Flooding	n/a	Frank Sanchez	\$125,000	\$125,000																									
TBD	Avenue 10E & Co. 10 1/2 Street (Los Amigos & Southern Sands)	Q2FY20	Sami Ayoub	\$827,000	\$150,000					\$7,000				\$670,000																
TBD	Atlantic Avenue Area Drainage Improvement ??	n/a	Frank Sanchez	\$499,000	\$125,000																\$4,000								\$370,000	
TBD	Yuma East, Units 3 & 4 near Mesa Drive	n/a	Frank Sanchez	\$479,000	\$125,000																\$4,000								\$350,000	
TBD	Desert Air Estates, Units 1 & 2 and Country Life Mobile Estates Subdivisions near Avenue 9E	n/a	Frank Sanchez	\$959,000	\$125,000																\$9,000								\$825,000	
				\$0																										
				\$0																										
				\$0																										
				\$23,008,000	\$2,281,000	\$800,000	\$0	\$0	\$6,665,000	\$222,000	\$0	\$0	\$0	\$7,370,000	\$38,000	\$500,000	\$200,000	\$0	\$1,725,000	\$20,000	\$50,000	\$0	\$0	\$1,575,000	\$17,000	\$0	\$0	\$0	\$1,545,000	
				\$9,746,000						\$7,592,000					\$2,463,000					\$1,645,000					\$1,562,000					

Prepared By: Sami Ayoub, PE - CIP Manager

STANDING PROJECT

NEW PROJECT



	FY20	FY21	FY22	FY23	FY24
Property Tax Revenues	\$2,499,585	\$2,499,585	\$2,499,585	\$2,499,585	\$2,499,585
Carry Over from Last FY	\$16,905,267	\$7,958,902	\$1,599,236	\$625,021	\$509,705
Misc Revenues	\$45,494	\$45,494	\$45,494	\$45,494	\$45,494
Other Substantial Revenues	\$0	\$0	\$0	\$0	\$0
TOTAL REVENUES (BUDGET)	\$19,450,346	\$10,503,980	\$4,144,315	\$3,170,099	\$3,054,784
Personal Services	(\$449,815)	(\$449,815)	(\$449,815)	(\$449,815)	(\$449,815)
Operating Expenses	(\$808,329)	(\$483,329)	(\$483,329)	(\$483,329)	(\$483,329)
Capital Outlay (CIP Projects)	(\$9,746,000)	(\$7,592,000)	(\$2,463,000)	(\$1,645,000)	(\$1,562,000)
Contingency @ 5%	(\$487,300)	(\$379,600)	(\$123,150)	(\$82,250)	(\$78,100)
Emergency Reserve @15%	(\$2,917,552)	(\$1,575,597)	(\$621,647)	(\$475,515)	(\$458,218)
TOTAL EXPENDITURES	(\$14,408,996)	(\$10,480,341)	(\$4,140,941)	(\$3,135,909)	(\$3,031,461)
Balance (Surplus or Deficit)	\$5,041,350	\$23,639	\$3,374	\$34,191	\$23,322

TOTAL NUMBER OF PROJECTS IN THE 5-YEAR FCD PROGRAM 18

**YUMA COUNTY
CAPITAL IMPROVEMENT PLAN**

Funding Code #		<input checked="" type="checkbox"/>	02295	Department		Flood Control District				
Updated On										
2/27/2019										
						CIP BUDGET				
#	CIP NO	Priority	Project Name	District	Project Manager	FY20	FY21	FY22	FY23	FY24
1	3.9703	H	Smucker Park Retention Basin	2	Alan Quintero	\$3,550,000	\$3,525,000	\$0	\$0	\$0
2	3.0103	L	West Yuma Mesa Storm Drainage Improvements, County 8th-16th St	1 & 5	Sami Ayoub	\$250,000	\$0	\$0	\$0	\$0
3	3.0504	M	Somerton Area Drainage Improvements	1	Sami Ayoub	\$0	\$2,424,000	\$1,768,000	\$0	\$0
4	3.1004	M	Foothills Area Drainage Improvements	3	Sami Ayoub	\$596,000	\$0	\$0	\$0	\$0
5	3.1501a	M	Wellton Area Drainage Improvements-Phase 1	3	Sami Ayoub	\$1,462,000	\$0	\$0	\$0	\$0
6	3.1501b	L	Wellton Area Drainage Improvements-Phase 2 Coyote Wash	3	Sami Ayoub	\$1,490,000	\$0	\$0	\$0	\$0
7	3.1601	L	Gadsden - San Luis Outfall and Basin Discharges - Phase 1	4	Sami Ayoub	\$250,000	\$550,000	\$550,000	\$2,222,000	\$0
8	3.1701	L	NPDES and MS4 Stormwater Discharge, Environmental Retrofit	All	Frank Sanchez	\$404,000	\$0	\$0	\$0	\$0
9	3.1802	M	Smucker Park Retention Basin outlet	5	Sami Ayoub	\$350,000	\$0	\$0	\$0	\$0
10	3.1803	M	Storm water retention/detention basins	All	Frank Sanchez	\$202,000	\$235,000	\$0	\$0	\$0
11	3.1804	H	Facility maintenance	All	Frank Sanchez	\$101,000	\$0	\$0	\$0	\$0
12	3.1806	M	28th Street Trunk Line extension to Smucker Basin	2	Sami Ayoub	\$240,000	\$0	\$0	\$0	\$303,000
13	3.1807	M	Holly Drive Storm Drainage system to Smucker Park Retention Basin	2	Frank Sanchez	\$175,000	\$0	\$0	\$0	\$303,000
14	Proposed1	M	Mitigation Fund For Purchasing Properties at Significant Risk of Flooding	All	Frank Sanchez	\$0	\$0	\$0	\$0	\$0
15	Proposed2	H	Avenue 10E & Co. 10 1/2 Street (Avenida Compadres Area)	3	Sami Ayoub	\$0	\$0	\$0	\$0	\$0
16	Proposed3	M	Atlantic Avenue Area Drainage Improvement	2	Frank Sanchez	\$0	\$0	\$0	\$0	\$0
17	Proposed4	M	Yuma East, Units 3 & 4 near Mesa Drive	3	Frank Sanchez	\$0	\$0	\$0	\$0	\$0
18	Proposed5	M	Desert Air Estates, Units 1 & 2 and Country Life Mobile Estates Subdivisions near	3	Frank Sanchez	\$0	\$0	\$0	\$0	\$0
19										
20										
21										
22										
23										
24										
25										
TOTAL						\$9,070,000	\$6,734,000	\$2,318,000	\$2,222,000	\$606,000

FY 20-24 Capital Improvement Program

 Smart Check

A. General

CIP #:	3.9703	Department:	Flood Control District	District #:	2
Project Name	Smucker Park Retention Basin				
Abstract Description of End Product/ Service	Installing a regional basin per the West Yuma Mesa Storm Drainage Discharge System study				
Key Project Benefits	Lessens the degree of pollution, erosion, flooding and other environmental and health issues				

B. Project Funding

	FY20 (BRT)	FY21 (Est)	FY22 (Est)	FY23 (Est)	FY24 (Est)	5-Year Total R
Source: FCD	\$3,550,000	\$3,525,000				\$7,075,000
Source:						\$0
Source:						\$0
Source:						\$0
TOTAL [R]	\$3,550,000	\$3,525,000	\$0	\$0	\$0	\$7,075,000

C. Project Estimated Expenditures

	FY20 (Est)	FY21 (Est)	FY22 (Est)	FY23 (Est)	FY24 (Est)	5-Year Total E
Engineering	(\$250,000)	(\$150,000)				(\$400,000)
Real Estate						\$0
Utilities						\$0
IGA/Permit Payment						\$0
Construction	(\$3,300,000)	(\$3,375,000)				(\$6,675,000)
						\$0
TOTAL [E]	(\$3,550,000)	(\$3,525,000)	\$0	\$0	\$0	(\$7,075,000)

D. Project Key Stakeholders

E. Project Schedule

	Milestone/Phase	Initiated (FY)	In Progress (FY)	Closed (FY)

F. Other Financial Information

a	Project Total Cost (Est)	
b	Cost To Complete	(\$7,075,000)
c	PEV = % Completion	0.00%
d	FY19 Project Budget	\$4,712,500
e	FY19 Expenditure	
f	FY19 Unspent \$\$	\$4,712,500
g	% Project CTC Funded	100%
h	Project Other Revenues	\$970,000
i	Net Annual M&O Cost	



H. Comments

IGA with City of Yuma (Reimbursement Approx \$970,000)

Project Manager	Alan Quintero	Date	7/1/2019
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FY 20-24 Capital Improvement Program

 Smart Check

A. General

CIP #:	3.0103	Department:	Flood Control District	District #:	1 & 5
Project Name	West Yuma Mesa Storm Drainage Improvements, County 8th-16th St				
Abstract Description of End Product/ Service	Letter of Map Amendment will be prepared to evaluate the storm improvements constructed to date, remodel the flood study.				
Key Project Benefits	Reduce the special flood hazard area.				

B. Project Funding

	FY20 (BRT)	FY21 (Est)	FY22 (Est)	FY23 (Est)	FY24 (Est)	5-Year Total R
Source: FCD	\$250,000					\$250,000
Source:						\$0
Source:						\$0
Source:						\$0
TOTAL [R]	\$250,000	\$0	\$0	\$0	\$0	\$250,000

C. Project Estimated Expenditures

	FY20 (Est)	FY21 (Est)	FY22 (Est)	FY23 (Est)	FY24 (Est)	5-Year Total E
Engineering	(\$250,000)					(\$250,000)
Real Estate						\$0
Utilities						\$0
IGA/Permit Payment						\$0
Construction						\$0
						\$0
TOTAL [E]	(\$250,000)	\$0	\$0	\$0	\$0	(\$250,000)

D. Project Key Stakeholders

E. Project Schedule

	Milestone/Phase	Initiated (FY)	In Progress (FY)	Closed (FY)

F. Other Financial Information

a	Project Total Cost (Est)	
b	Cost To Complete	(\$250,000)
c	PEV = % Completion	0.00%
d	FY19 Project Budget	\$250,000
e	FY19 Expenditure	
f	FY19 Unspent \$\$	\$250,000
g	% Project CTC Funded	100%
h	Project Other Revenues	\$0
i	Net Annual M&O Cost	



H. Comments

Project Manager	Sami Ayoub	Date	7/1/2019
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FY 20-24 Capital Improvement Program

 Smart Check

A. General

CIP #:	3.0504	Department:	Flood Control District	District #:	1
Project Name	Somerton Area Drainage Improvements				
Abstract Description of End Product/ Service	Installing a stormwater discharge system for existing detention basins for the area bound by Highway 95, Avenue E, County 17th Street, and Avenue F.				
Key Project Benefits	Lessens the degree of pollution, erosion, flooding and other environmental and health issues				

B. Project Funding

	FY20 (BRT)	FY21 (Est)	FY22 (Est)	FY23 (Est)	FY24 (Est)	5-Year Total R
Source: FCD		\$2,424,000	\$1,768,000			\$4,192,000
Source:						\$0
Source:						\$0
Source:						\$0
TOTAL [R]	\$0	\$2,424,000	\$1,768,000	\$0	\$0	\$4,192,000

C. Project Estimated Expenditures

	FY20 (Est)	FY21 (Est)	FY22 (Est)	FY23 (Est)	FY24 (Est)	5-Year Total E
Engineering		(\$24,000)	(\$18,000)			(\$42,000)
Real Estate						\$0
Utilities						\$0
IGA/Permit Payment						\$0
Construction		(\$2,400,000)	(\$1,750,000)			(\$4,150,000)
						\$0
TOTAL [E]	\$0	(\$2,424,000)	(\$1,768,000)	\$0	\$0	(\$4,192,000)

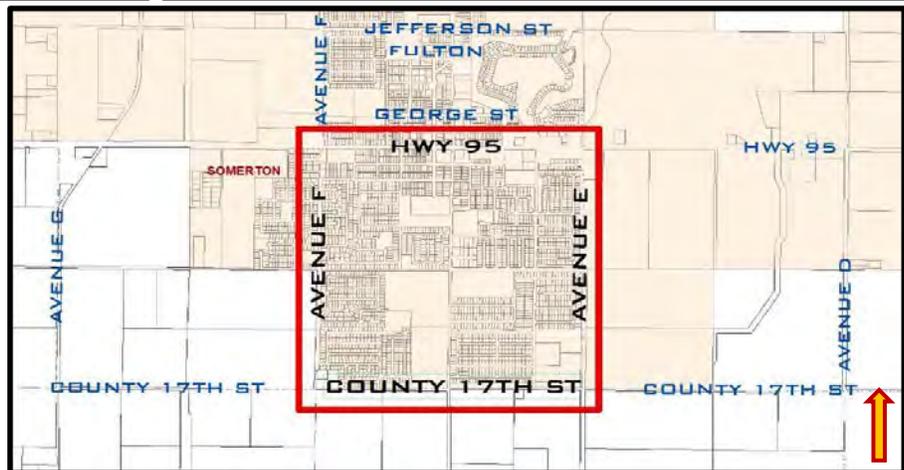
D. Project Key Stakeholders

E. Project Schedule

	Milestone/Phase	Initiated (FY)	In Progress (FY)	Closed (FY)

F. Other Financial Information

a	Project Total Cost (Est)	
b	Cost To Complete	(\$4,192,000)
c	PEV = % Completion	0.00%
d	FY19 Project Budget	\$1,000,000
e	FY19 Expenditure	
f	FY19 Unspent \$\$	\$1,000,000
g	% Project CTC Funded	100%
h	Project Other Revenues	\$0
i	Net Annual M&O Cost	



H. Comments

Project Manager	Sami Ayoub	Date	7/1/2019
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FY 20-24 Capital Improvement Program

 Smart Check

A. General

CIP #:	3.1004	Department:	Flood Control District	District #:	3
Project Name	Foothills Area Drainage Improvements				
Abstract Description of End Product/ Service	Installing a stormwater drainage system in the area bound by: South Frontage Road, Foothills Blvd, County 12th Street and Bonnie Avenue.				
Key Project Benefits	Lessens the degree of pollution, erosion, flooding and other environmental and health issues				

B. Project Funding

	FY20 (BRT)	FY21 (Est)	FY22 (Est)	FY23 (Est)	FY24 (Est)	5-Year Total R
Source: FCD	\$596,000					\$596,000
Source:						\$0
Source:						\$0
Source:						\$0
TOTAL [R]	\$596,000	\$0	\$0	\$0	\$0	\$596,000

C. Project Estimated Expenditures

	FY20 (Est)	FY21 (Est)	FY22 (Est)	FY23 (Est)	FY24 (Est)	5-Year Total E
Engineering	(\$6,000)					(\$6,000)
Real Estate						\$0
Utilities						\$0
IGA/Permit Payment						\$0
Construction	(\$590,000)					(\$590,000)
						\$0
TOTAL [E]	(\$596,000)	\$0	\$0	\$0	\$0	(\$596,000)

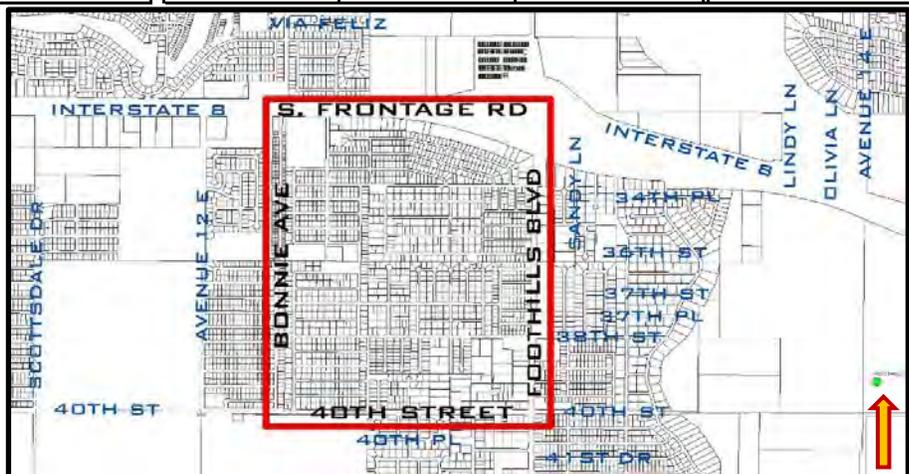
D. Project Key Stakeholders

E. Project Schedule

	Milestone/Phase	Initiated (FY)	In Progress (FY)	Closed (FY)

F. Other Financial Information

a	Project Total Cost (Est)	
b	Cost To Complete	(\$596,000)
c	PEV = % Completion	0.00%
d	FY19 Project Budget	\$3,920,000
e	FY19 Expenditure	
f	FY19 Unspent \$\$	\$3,920,000
g	% Project CTC Funded	100%
h	Project Other Revenues	\$0
i	Net Annual M&O Cost	



H. Comments

Project Manager	Sami Ayoub	Date	7/1/2019
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FY 20-24 Capital Improvement Program

 Smart Check

A. General

CIP #:	3.1501a	Department:	Flood Control District	District #:	3
Project Name	Wellton Area Drainage Improvements-Phase 1				
Abstract Description of End Product/ Service	Installing Helen Street Retention Basin, Maybelle Street Retention Basin, and Arizona Avenue/San Jose Avenue Storm Drain system				
Key Project Benefits	Lessens the degree of pollution, erosion, flooding and other environmental and health issues				

B. Project Funding

	FY20 (BRT)	FY21 (Est)	FY22 (Est)	FY23 (Est)	FY24 (Est)	5-Year Total R
Source: FCD	\$1,462,000					\$1,462,000
Source:						\$0
Source:						\$0
Source:						\$0
TOTAL [R]	\$1,462,000	\$0	\$0	\$0	\$0	\$1,462,000

C. Project Estimated Expenditures

	FY20 (Est)	FY21 (Est)	FY22 (Est)	FY23 (Est)	FY24 (Est)	5-Year Total E
Engineering	(\$12,000)					(\$12,000)
Real Estate	(\$300,000)					(\$300,000)
Utilities						\$0
IGA/Permit Payment						\$0
Construction	(\$1,150,000)					(\$1,150,000)
						\$0
TOTAL [E]	(\$1,462,000)	\$0	\$0	\$0	\$0	(\$1,462,000)

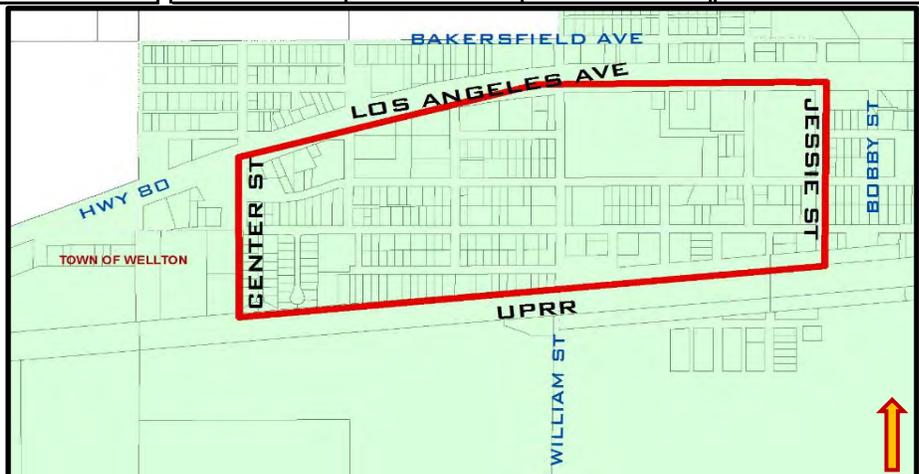
D. Project Key Stakeholders

E. Project Schedule

Milestone/Phase	Initiated (FY)	In Progress (FY)	Closed (FY)

F. Other Financial Information

a	Project Total Cost (Est)	
b	Cost To Complete	(\$1,462,000)
c	PEV = % Completion	0.00%
d	FY19 Project Budget	\$130,000
e	FY19 Expenditure	
f	FY19 Unspent \$\$	\$130,000
g	% Project CTC Funded	100%
h	Project Other Revenues	\$0
i	Net Annual M&O Cost	



H. Comments

See Phase-2

Project Manager	Sami Ayoub	Date	7/1/2019
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FY 20-24 Capital Improvement Program

 Smart Check

A. General

CIP #:	3.1501b	Department:	Flood Control District	District #:	3
Project Name	Wellton Area Drainage Improvements-Phase 2 Coyote Wash				
Abstract Description of End Product/ Service	Channelization of the Coyote Wash crossing the Los Angeles Avenue				
Key Project Benefits	Lessens the degree of pollution, erosion, flooding and other environmental and health issues				

B. Project Funding

	FY20 (BRT)	FY21 (Est)	FY22 (Est)	FY23 (Est)	FY24 (Est)	5-Year Total R
Source: FCD	\$1,490,000					\$1,490,000
Source:						\$0
Source:						\$0
Source:						\$0
TOTAL [R]	\$1,490,000	\$0	\$0	\$0	\$0	\$1,490,000

C. Project Estimated Expenditures

	FY20 (Est)	FY21 (Est)	FY22 (Est)	FY23 (Est)	FY24 (Est)	5-Year Total E
Engineering	(\$90,000)					(\$90,000)
Real Estate	(\$500,000)					(\$500,000)
Utilities						\$0
IGA/Permit Payment						\$0
Construction	(\$900,000)					(\$900,000)
						\$0
TOTAL [E]	(\$1,490,000)	\$0	\$0	\$0	\$0	(\$1,490,000)

D. Project Key Stakeholders

E. Project Schedule

	Milestone/Phase	Initiated (FY)	In Progress (FY)	Closed (FY)

F. Other Financial Information

a	Project Total Cost (Est)	
b	Cost To Complete	(\$1,490,000)
c	PEV = % Completion	0.00%
d	FY19 Project Budget	\$130,000
e	FY19 Expenditure	
f	FY19 Unspent \$\$	\$130,000
g	% Project CTC Funded	100%
h	Project Other Revenues	\$0
i	Net Annual M&O Cost	



H. Comments

See Phase-1

Project Manager	Sami Ayoub	Date	7/1/2019
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FY 20-24 Capital Improvement Program

 Smart Check

A. General

CIP #:	3.1601	Department:	Flood Control District	District #:	4
Project Name	Gadsden - San Luis Outfall and Basin Discharges - Phase 1				
Abstract Description of End Product/ Service	Install an outfall for the retention basins of Rio Sonora, and provide an outfall system for the area bound by County 18th Street, Avenue G, County 22-1/2 Street and West of the Salty Canal Road.				
Key Project Benefits	Lessens the degree of pollution, erosion, flooding and other environmental and health issues				

B. Project Funding

	FY20 (BRT)	FY21 (Est)	FY22 (Est)	FY23 (Est)	FY24 (Est)	5-Year Total R
Source: FCD	\$250,000	\$550,000	\$550,000	\$2,222,000		\$3,572,000
Source:						\$0
Source:						\$0
Source:						\$0
TOTAL [R]	\$250,000	\$550,000	\$550,000	\$2,222,000	\$0	\$3,572,000

C. Project Estimated Expenditures

	FY20 (Est)	FY21 (Est)	FY22 (Est)	FY23 (Est)	FY24 (Est)	5-Year Total E
Engineering	(\$250,000)		(\$50,000)	(\$22,000)		(\$322,000)
Real Estate		(\$550,000)				(\$550,000)
Utilities						\$0
IGA/Permit Payment						\$0
Construction			(\$500,000)	(\$2,200,000)		(\$2,700,000)
						\$0
TOTAL [E]	(\$250,000)	(\$550,000)	(\$550,000)	(\$2,222,000)	\$0	(\$3,572,000)

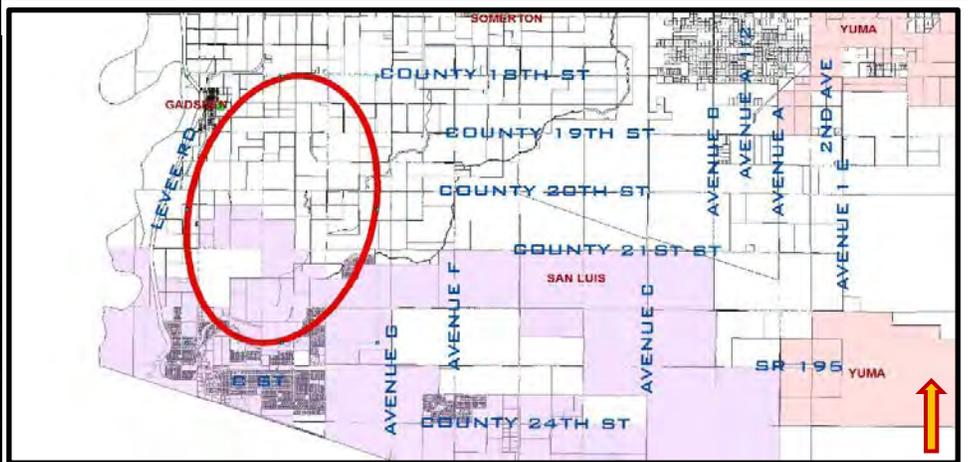
D. Project Key Stakeholders

E. Project Schedule

	Milestone/Phase	Initiated (FY)	In Progress (FY)	Closed (FY)

F. Other Financial Information

a	Project Total Cost (Est)	
b	Cost To Complete	(\$3,572,000)
c	PEV = % Completion	0.00%
d	FY19 Project Budget	\$85,000
e	FY19 Expenditure	
f	FY19 Unspent \$\$	\$85,000
g	% Project CTC Funded	100%
h	Project Other Revenues	\$0
i	Net Annual M&O Cost	



H. Comments

Project Manager	Sami Ayoub	Date	7/1/2019
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FY 20-24 Capital Improvement Program

 Smart Check

A. General

CIP #:	3.1701	Department:	Flood Control District	District #:	All
Project Name	NPDES and MS4 Stormwater Discharge, Environmental Retrofit				
Abstract Description of End Product/ Service	Install various measures such as oil/water separators, sediment control basins, etc.				
Key Project Benefits	Compliance with the laws and regulations relevant to the Clean Water Act.				

B. Project Funding

	FY20 (BRT)	FY21 (Est)	FY22 (Est)	FY23 (Est)	FY24 (Est)	5-Year Total R
Source: FCD	\$404,000					\$404,000
Source:						\$0
Source:						\$0
Source:						\$0
TOTAL [R]	\$404,000	\$0	\$0	\$0	\$0	\$404,000

C. Project Estimated Expenditures

	FY20 (Est)	FY21 (Est)	FY22 (Est)	FY23 (Est)	FY24 (Est)	5-Year Total E
Engineering	(\$4,000)					(\$4,000)
Real Estate						\$0
Utilities						\$0
IGA/Permit Payment						\$0
Construction	(\$400,000)					(\$400,000)
						\$0
TOTAL [E]	(\$404,000)	\$0	\$0	\$0	\$0	(\$404,000)

D. Project Key Stakeholders

E. Project Schedule

	Milestone/Phase	Initiated (FY)	In Progress (FY)	Closed (FY)

F. Other Financial Information

a	Project Total Cost (Est)	
b	Cost To Complete	(\$404,000)
c	PEV = % Completion	0.00%
d	FY19 Project Budget	\$180,000
e	FY19 Expenditure	
f	FY19 Unspent \$\$	\$180,000
g	% Project CTC Funded	100%
h	Project Other Revenues	\$0
i	Net Annual M&O Cost	



H. Comments

Project Manager	Frank Sanchez	Date	7/1/2019
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FY 20-24 Capital Improvement Program

 Smart Check

A. General

CIP #:	3.1802	Department:	Flood Control District	District #:	5
Project Name	Smucker Park Retention Basin outlet				
Abstract Description of End Product/ Service	Install an alternate discharge outlet for the smucker park retention basin other than the East Main Irrigation Canal. Disposal point must comply with the Bureau of Reclamation requirements.				
Key Project Benefits	Lessens the degree of pollution, erosion, flooding and other environmental and health issues				

B. Project Funding

	FY20 (BRT)	FY21 (Est)	FY22 (Est)	FY23 (Est)	FY24 (Est)	5-Year Total R
Source: FCD	\$350,000					\$350,000
Source:						\$0
Source:						\$0
Source:						\$0
TOTAL [R]	\$350,000	\$0	\$0	\$0	\$0	\$350,000

C. Project Estimated Expenditures

	FY20 (Est)	FY21 (Est)	FY22 (Est)	FY23 (Est)	FY24 (Est)	5-Year Total E
Engineering	(\$350,000)					(\$350,000)
Real Estate						\$0
Utilities						\$0
IGA/Permit Payment						\$0
Construction						\$0
TOTAL [E]	(\$350,000)	\$0	\$0	\$0	\$0	(\$350,000)

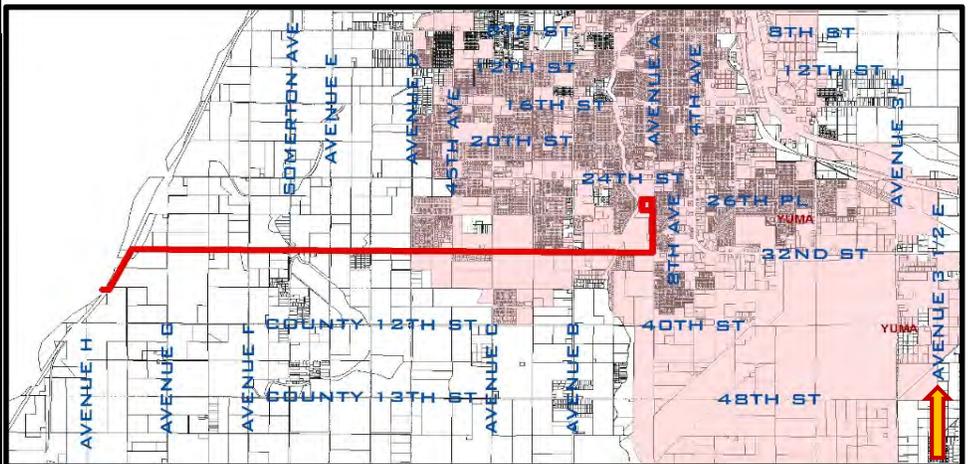
D. Project Key Stakeholders

E. Project Schedule

Milestone/Phase	Initiated (FY)	In Progress (FY)	Closed (FY)

F. Other Financial Information

a	Project Total Cost (Est)	
b	Cost To Complete	(\$350,000)
c	PEV = % Completion	0.00%
d	FY19 Project Budget	\$0
e	FY19 Expenditure	
f	FY19 Unspent \$\$	\$0
g	% Project CTC Funded	100%
h	Project Other Revenues	\$0
i	Net Annual M&O Cost	



H. Comments

Cost to Complete amount is not for the full project but only for the planning & engineering tasks

Project Manager	Sami Ayoub	Date	7/1/2019
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FY 20-24 Capital Improvement Program

 Smart Check

A. General

CIP #:	3.1803	Department:	Flood Control District	District #:	All
Project Name	Storm water retention/detention basins				
Abstract Description of End Product/ Service	Install minor capital improvements and provide maintenance for retention and detention basins.				
Key Project Benefits	Improved efficiency and effectiveness of storm water management facilities				

B. Project Funding

	FY20 (BRT)	FY21 (Est)	FY22 (Est)	FY23 (Est)	FY24 (Est)	5-Year Total R
Source: FCD	\$202,000	\$235,000				\$437,000
Source:						\$0
Source:						\$0
Source:						\$0
TOTAL [R]	\$202,000	\$235,000	\$0	\$0	\$0	\$437,000

C. Project Estimated Expenditures

	FY20 (Est)	FY21 (Est)	FY22 (Est)	FY23 (Est)	FY24 (Est)	5-Year Total E
Engineering	(\$2,000)	(\$35,000)				(\$37,000)
Real Estate						\$0
Utilities						\$0
IGA/Permit Payment						\$0
Construction	(\$200,000)	(\$200,000)				(\$400,000)
						\$0
TOTAL [E]	(\$202,000)	(\$235,000)	\$0	\$0	\$0	(\$437,000)

D. Project Key Stakeholders

E. Project Schedule

	Milestone/Phase	Initiated (FY)	In Progress (FY)	Closed (FY)

F. Other Financial Information

a	Project Total Cost (Est)	
b	Cost To Complete	(\$437,000)
c	PEV = % Completion	0.00%
d	FY19 Project Budget	\$240,000
e	FY19 Expenditure	
f	FY19 Unspent \$\$	\$240,000
g	% Project CTC Funded	100%
h	Project Other Revenues	\$0
i	Net Annual M&O Cost	



H. Comments

Project Manager	Frank Sanchez	Date	7/1/2019
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FY 20-24 Capital Improvement Program

 Smart Check

A. General

CIP #:	3.1804	Department:	Flood Control District	District #:	All
Project Name	Facility maintenance				
Abstract Description of End Product/ Service	Install minor capital improvements and provide maintenance for stormwater conveyance system. The scope may include replacing aging discharge lines for groundwater pump stations.				
Key Project Benefits	Lessens the degree of pollution, erosion, flooding and other environmental and health issues				

B. Project Funding

	FY20 (BRT)	FY21 (Est)	FY22 (Est)	FY23 (Est)	FY24 (Est)	5-Year Total R
Source: FCD	\$101,000					\$101,000
Source:						\$0
Source:						\$0
Source:						\$0
TOTAL [R]	\$101,000	\$0	\$0	\$0	\$0	\$101,000

C. Project Estimated Expenditures

	FY20 (Est)	FY21 (Est)	FY22 (Est)	FY23 (Est)	FY24 (Est)	5-Year Total E
Engineering	(\$1,000)					(\$1,000)
Real Estate						\$0
Utilities						\$0
IGA/Permit Payment						\$0
Construction	(\$100,000)					(\$100,000)
						\$0
TOTAL [E]	(\$101,000)	\$0	\$0	\$0	\$0	(\$101,000)

D. Project Key Stakeholders

E. Project Schedule

	Milestone/Phase	Initiated (FY)	In Progress (FY)	Closed (FY)

F. Other Financial Information

a	Project Total Cost (Est)	
b	Cost To Complete	(\$101,000)
c	PEV = % Completion	0.00%
d	FY19 Project Budget	\$140,000
e	FY19 Expenditure	
f	FY19 Unspent \$\$	\$140,000
g	% Project CTC Funded	100%
h	Project Other Revenues	\$0
i	Net Annual M&O Cost	



H. Comments

Project Manager	Frank Sanchez	Date	7/1/2019
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FY 20-24 Capital Improvement Program

 Smart Check

A. General

CIP #:	3.1806	Department:	Flood Control District	District #:	2
Project Name	28th Street Trunk Line extension to Smucker Basin				
Abstract Description of End Product/ Service	Install a storm water conveyance system parallel to Avenue A, that discharge flows into the Smucker Park retention basin.				
Key Project Benefits	Lessens the degree of pollution, erosion, flooding and other environmental and health issues				

B. Project Funding

	FY20 (BRT)	FY21 (Est)	FY22 (Est)	FY23 (Est)	FY24 (Est)	5-Year Total R
Source: FCD	\$240,000				\$303,000	\$543,000
Source:						\$0
Source:						\$0
Source:						\$0
TOTAL [R]	\$240,000	\$0	\$0	\$0	\$303,000	\$543,000

C. Project Estimated Expenditures

	FY20 (Est)	FY21 (Est)	FY22 (Est)	FY23 (Est)	FY24 (Est)	5-Year Total E
Engineering	(\$240,000)				(\$3,000)	(\$243,000)
Real Estate						\$0
Utilities						\$0
IGA/Permit Payment						\$0
Construction					(\$300,000)	(\$300,000)
						\$0
TOTAL [E]	(\$240,000)	\$0	\$0	\$0	(\$303,000)	(\$543,000)

D. Project Key Stakeholders

E. Project Schedule

	Milestone/Phase	Initiated (FY)	In Progress (FY)	Closed (FY)

F. Other Financial Information

a	Project Total Cost (Est)	
b	Cost To Complete	(\$543,000)
c	PEV = % Completion	0.00%
d	FY19 Project Budget	\$150,000
e	FY19 Expenditure	
f	FY19 Unspent \$\$	\$150,000
g	% Project CTC Funded	100%
h	Project Other Revenues	\$0
i	Net Annual M&O Cost	



H. Comments

Project Manager	Sami Ayoub	Date	7/1/2019
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FY 20-24 Capital Improvement Program

 Smart Check

A. General

CIP #:	3.1807	Department:	Flood Control District	District #:	2
Project Name	Holly Drive Storm Drainage system to Smucker Park Retention Basin				
Abstract Description of End Product/ Service	Install a storm water conveyance system parallel to Avenue A, that discharge flows into the Smucker Park retention basin.				
Key Project Benefits	Lessens the degree of pollution, erosion, flooding and other environmental and health issues				

B. Project Funding

	FY20 (BRT)	FY21 (Est)	FY22 (Est)	FY23 (Est)	FY24 (Est)	5-Year Total R
Source: FCD	\$175,000				\$303,000	\$478,000
Source:						\$0
Source:						\$0
Source:						\$0
TOTAL [R]	\$175,000	\$0	\$0	\$0	\$303,000	\$478,000

C. Project Estimated Expenditures

	FY20 (Est)	FY21 (Est)	FY22 (Est)	FY23 (Est)	FY24 (Est)	5-Year Total E
Engineering	(\$175,000)				(\$3,000)	(\$178,000)
Real Estate						\$0
Utilities						\$0
IGA/Permit Payment						\$0
Construction					(\$300,000)	(\$300,000)
						\$0
TOTAL [E]	(\$175,000)	\$0	\$0	\$0	(\$303,000)	(\$478,000)

D. Project Key Stakeholders

E. Project Schedule

	Milestone/Phase	Initiated (FY)	In Progress (FY)	Closed (FY)

F. Other Financial Information

a	Project Total Cost (Est)	
b	Cost To Complete	(\$478,000)
c	PEV = % Completion	0.00%
d	FY19 Project Budget	\$0
e	FY19 Expenditure	
f	FY19 Unspent \$\$	\$0
g	% Project CTC Funded	100%
h	Project Other Revenues	\$0
i	Net Annual M&O Cost	



H. Comments

Project Manager	Frank Sanchez	Date	7/1/2019
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FY20

CIP PROJECT REQUESTS



YUMA COUNTY
ENGINEERING DEPARTMENT
CAPITAL IMPROVEMENT PROGRAM MANAGEMENT BRANCH

PROJECT REQUEST FORM

Project Name/ Title Mitigation Fund for Purchasing Properties at Significant Risk Attachments

Project Location Yuma County

Project Type New Enhancement Other

Project Purpose/ Reason/ Objective

This project is to establish a revolving account to fund acquisition of properties subject to a significant risk of flooding. The initial phase of this project is to develop policy and procedure that BOD support and approve. Therafter, the County would periodically identify and prioritize properties subject to a mitigation acquisition.

Project Strategic Alignment

Safety Reliability Cost Effectiveness Compliance

Financial Requirements

FY	20	FY	21	FY	22	FY	23	FY	24
\$	\$125,000	\$		\$		\$		\$	

Project Funding Source

Source 1: FCD Source 2: _____ Source 3: _____ Source 4: _____ Source 5: _____
\$ \$125,000 \$ _____ \$ _____ \$ _____ \$ _____

Project Requestor

Name Sami Ayoub Org. FCD - Engineering Dept
Address _____ City _____ State _____ Zip _____
Phone (928) 817-5121 Fax _____ E-Mail sami.ayoub@yumacountyaz.gov

Signature _____ Date 1/25/2019

Project Review & Approval Status

Project Request Denied
Key Reason(s) _____

Project Request Approved
Conditions (If Any) _____

Project Phase Approved

Assessment Preliminary Deisgn Full Development Construction

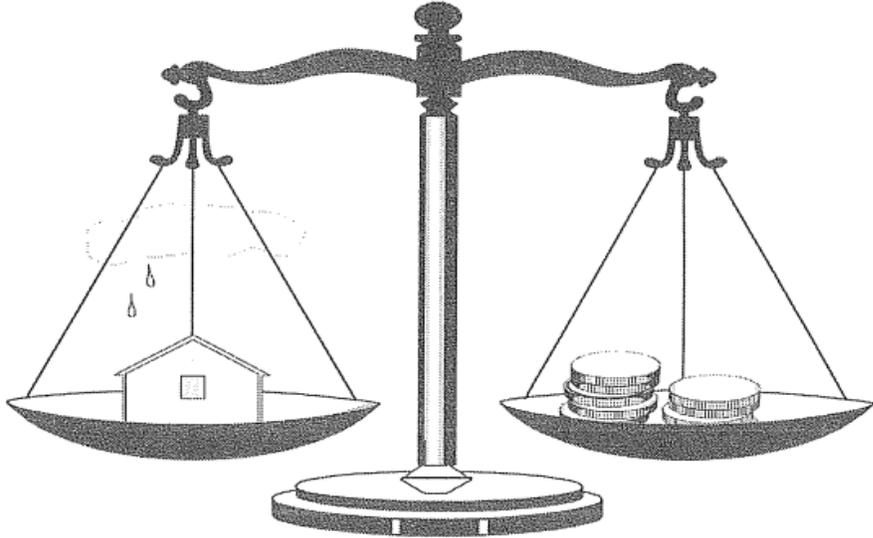
Project Assigned to:

Name _____ Use Project No _____

Project Review - Other Comments

Project Request Status-Final Disposition

Name _____ Date _____ Signature _____

No.	Project
12-82P	<p data-bbox="250 212 529 247">Mitigation Fund</p> <p data-bbox="250 247 548 279">Countywide Floodplains</p> <p data-bbox="250 285 1507 352">Need: A fund/process is needed to purchase and remove structures from the floodplain when the cost is less than other flood control mitigation.</p> <p data-bbox="250 359 781 390">Risk: High, imminent risk to structures.</p> <p data-bbox="250 396 1490 522">Recommended Solution: Provide funding and develop guidelines for use of funds for mitigation. This fund would be used to pay to remove at-risk structures from the floodplain instead of paying for structural protection. Staff needs to prepare a draft mitigation plan for review.</p> <p data-bbox="250 529 699 560">Estimated Costs: Undetermined</p> <p data-bbox="250 567 493 598">Status: No action</p> <p data-bbox="250 604 505 636">Agencies: YCFCD</p> <div data-bbox="418 730 1291 1268" style="text-align: center;">A black and white illustration of a balance scale. The left pan is higher and contains a simple drawing of a house with rain falling on it. The right pan is lower and contains several stacks of coins. The scale is balanced, symbolizing the comparison between the cost of mitigation and the value of the structures at risk.</div>



YUMA COUNTY
ENGINEERING DEPARTMENT
CAPITAL IMPROVEMENT PROGRAM MANAGEMENT BRANCH

PROJECT REQUEST FORM

Project Name/ Title Avenue 10E & Co 10.5 Street (Los Amigos & Southern Sands) Attachments

Project Location Area Between Ave 10E & Ave Compadres, From Co 10.5 St to I-8 North Frontage Rd

Project Type New Enhancement Other

Project Purpose/ Reason/ Objective

Flows from failed on-site retention in the area causes flooding in Tuscany Manufactured Home Park and along Avenida Compadres. This project would increase the size of the Southern Sands Basin and construct a drainage system to intercept additional runoff.

Project Strategic Alignment

Safety Reliability Cost Effectiveness Compliance

Financial Requirements

FY	20	FY	21	FY	22	FY	23	FY	24
\$	\$150,000	\$	\$627,000	\$		\$		\$	

Project Funding Source

Source 1: FCD Source 2: _____ Source 3: _____ Source 4: _____ Source 5: _____
\$ \$777,000 \$ _____ \$ _____ \$ _____ \$ _____

Project Requestor

Name Sami Ayoub Org. FCD-Engineering Dept
Address _____ City _____ State _____ Zip _____
Phone (928) 817-5121 Fax _____ E-Mail sami.ayoub@yumacountyaz.gov

Signature _____ Date 1/25/2019

Project Review & Approval Status

Project Request Denied
Key Reason(s) _____

Project Request Approved
Conditions (If Any) _____

Project Phase Approved

Assessment Preliminary Deisgn Full Development Construction

Project Assigned to:

Name _____ Use Project No _____

Project Review - Other Comments

Project Request Status-Final Disposition

Name _____ Date _____ Signature _____

YUMA COUNTY FLOOD CONTROL DISTRICT
ASSESSMENT REPORT 2017/2018

No.	Project
12-75P	<p>Avenue 10 E & Co. 10 ½ Street (Avenida Compadres Area) Avenue 10 E & Co. 10½ St.</p> <p>Need: Flows from failed on-site retention in the area causes flooding in Tuscany Manufactured Home Park and along Avenida Compadres.</p> <p>Risk: Less than 20 homes at risk from moderate damage.</p> <p>Recommended Solution: Increase the size of the Southern Sands Basin and construct a drainage system to intercept additional runoff.</p> <p>Estimated Cost: \$250,000</p> <p>Benefit/Cost: <1.0</p> <p>Status: Basin was purchased for back taxes. Project on hold pending North Frontage Road improvements and additional needs.</p> <p>Agencies: YCFCD</p>





YUMA COUNTY
ENGINEERING DEPARTMENT
CAPITAL IMPROVEMENT PROGRAM MANAGEMENT BRANCH

PROJECT REQUEST FORM

Project Name/ Title Atlantic Avenue Area Drainage Improvement Attachments

Project Location Area between Pacific Ave and Avenue 3E, from 12th St to 16th St

Project Type New Enhancement Other

Project Purpose/ Reason/ Objective

The Atlantic Avenue area has developed prior to development standards. Paved roads did not address drainage resulting in runoff ponding adjacent to road. The initial phase of this project is to prepare an area drainage study to identify the extent of flooding and recommend an overall solution for the area.

Project Strategic Alignment

Safety Reliability Cost Effectiveness Compliance

Financial Requirements

FY	20	FY	21	FY	22	FY	23	FY	24
\$	\$125,000	\$		\$		\$		\$	\$374,000

Project Funding Source

Source 1: FCD Source 2: _____ Source 3: _____ Source 4: _____ Source 5: _____
\$ \$499,000 \$ _____ \$ _____ \$ _____ \$ _____

Project Requestor

Name Sami Ayoub Org. FCD-Engineering Dept
Address _____ City _____ State _____ Zip _____
Phone (928) 817-5121 Fax _____ E-Mail sami.ayoub@yumacountyaz.gov

Signature _____ Date 1/25/2019

Project Review & Approval Status

Project Request Denied
Key Reason(s) _____

Project Request Approved
Conditions (If Any) _____

Project Phase Approved

Assessment Preliminary Design Full Development Construction

Project Assigned to:

Name _____ Use Project No _____

Project Review - Other Comments

Project Request Status-Final Disposition

Name _____ Date _____ Signature _____

YUMA COUNTY FLOOD CONTROL DISTRICT
ASSESSMENT REPORT 2017/2018

No.	Project
12-90P	<p data-bbox="269 275 898 310">Atlantic Avenue Area Drainage Study</p> <p data-bbox="269 310 834 338">Atlantic Avenue north of Highway 95 Vicinity</p> <p data-bbox="269 344 1422 411">Need: The Atlantic Avenue area has developed prior to development standards. Paved roads did not address drainage resulting in runoff ponding adjacent to road.</p> <p data-bbox="269 415 834 443">Risk: Moderate risk to road improvements.</p> <p data-bbox="269 447 1463 514">Recommended Solution: Prepare an area drainage study to identify the extent of flooding and recommend an overall solution for the area.</p> <p data-bbox="269 518 656 546">Estimated Cost: \$5,000,000</p> <p data-bbox="269 550 521 577">Status: No activity</p> <p data-bbox="269 581 724 609">Agencies: YCFCD, Yuma County</p> 



YUMA COUNTY
ENGINEERING DEPARTMENT
CAPITAL IMPROVEMENT PROGRAM MANAGEMENT BRANCH

PROJECT REQUEST FORM

Project Name/ Title Yuma East Flooding Attachments

Project Location Area between Fortuna Rd and Scottsdale Dr, From 40th St to 34th St

Project Type New Enhancement Other

Project Purpose/ Reason/ Objective
Failed on-site retention and homes at or below street grade results in flooding of streets and some yards and mobile home pits. A Design Concept Report is complete. This phase of the project would develop further the recommended drainage improvements.

Project Strategic Alignment
 Safety Reliability Cost Effectiveness Compliance

Financial Requirements									
FY	20	FY	21	FY	22	FY	23	FY	24
\$	\$125,000	\$		\$		\$		\$	\$374,000

Project Funding Source
Source 1: FCD Source 2: _____ Source 3: _____ Source 4: _____ Source 5: _____
\$ \$499,000 \$ _____ \$ _____ \$ _____ \$ _____

Project Requestor
Name Sami Ayoub Org. FCD-Engineering Dept
Address _____ City _____ State _____ Zip _____
Phone (928) 817-5121 Fax _____ E-Mail sami.ayoub@yumacountyaz.gov

Signature _____ Date 1/25/2019

Project Review & Approval Status
 Project Request Denied
Key Reason(s) _____
 Project Request Approved
Conditions (If Any) _____

Project Phase Approved
 Assessment Preliminary Design Full Development Construction

Project Assigned to:
Name _____ Use Project No _____

Project Review - Other Comments

Project Request Status-Final Disposition
Name _____ Date _____ Signature _____

YUMA COUNTY FLOOD CONTROL DISTRICT
ASSESSMENT REPORT 2017/2018

No.	Project
12-91P	<p>Yuma East Flooding - ON HOLD Yuma East, Units 3 & 4 near Mesa Drive.</p> <p>Need: Failed on-site retention and homes at or below street grade results in flooding of streets and some yards and mobile home pits.</p> <p>Risk: Greater than 20 homes are at risk of moderate flooding.</p> <p>Recommended Solution: Improvement District needed to fund improvements.</p> <p>Estimated Cost: \$385,000</p> <p>Status: Design Concept Report is complete. Project on hold until property owners propose funding mechanism.</p> <p>Agencies: YCFCD, Yuma County</p>
	



YUMA COUNTY
ENGINEERING DEPARTMENT
CAPITAL IMPROVEMENT PROGRAM MANAGEMENT BRANCH

PROJECT REQUEST FORM

Project Name/ Title Desert Air Estates Unit 1 & 2 and Co Life Mobile Estates Flooding Attachments

Project Location Area between Co 11th St and Stetson St, from Avenue 8.5E to Avenue 9E

Project Type New Enhancement Other

Project Purpose/ Reason/ Objective
Failed on-site retention and homes at or below street grade results in flooding of streets and some yards and mobile home pits. This initial phase of the project would prepare a conceptual design to identify drainage options.

Project Strategic Alignment
 Safety Reliability Cost Effectiveness Compliance

FY	20	FY	21	FY	22	FY	23	FY	24
\$	\$125,000	\$		\$		\$		\$	374,000

Project Funding Source
Source 1: FCD Source 2: _____ Source 3: _____ Source 4: _____ Source 5: _____
\$ \$499,000 \$ _____ \$ _____ \$ _____ \$ _____

Project Requestor
Name Sami Ayoub Org. FCD-Engineering Dept
Address _____ City _____ State _____ Zip _____
Phone (928) 817-5121 Fax _____ E-Mail sami.ayoub@yumacountyaz.gov

Signature _____ Date 1/25/2019

Project Review & Approval Status
 Project Request Denied
Key Reason(s) _____
 Project Request Approved
Conditions (If Any) _____

Project Phase Approved
 Assessment Preliminary Design Full Development Construction

Project Assigned to:
Name _____ Use Project No _____

Project Review - Other Comments

Project Request Status-Final Disposition
Name _____ Date _____ Signature _____

**YUMA COUNTY FLOOD CONTROL DISTRICT
ASSESSMENT REPORT 2017/2018**

No.	Project
12-92P	<p>Desert Air Estates, Unit 1 & 2 and Country Life Mobile Estates Flooding - ON HOLD Desert Air Estates, Units 1 & 2 and Country Life Mobile Estates Subdivisions near Avenue 9E.</p> <p>Need: Failed on-site retention and homes at or below street grade results in flooding of streets and some yards and mobile home pits.</p> <p>Risk: Greater than 20 homes are at risk of moderate flooding.</p> <p>Recommended Solution: Prepare a conceptual design to identify drainage options.</p> <p>Estimated Cost: \$1,000,000</p> <p>Status: Design Concept Report is complete. Project on hold until property owners propose funding mechanism.</p> <p>Agencies: YCFCD, Yuma County</p>
	

AGENDA ITEM 4

2018 Board of Director Actions

March 19, 2018- Award contract, including both the base bid and the Alternative Bid, to DPE Construction, Inc. in the amount of \$629,547.00 for the San Luis Area Drainage Improvements Project Phase II (CIP No. 3.0505a) and authorize the Flood Control Manager to sign the construction contract. **Approved**

April 2, 2018-Approve the 2017 Yuma County Flood Control District Assessment Report **Approved**

April 2, 2018- Approve the construction plans and authorize the Department of Development Services to advertise a request for bids for the construction of the Farwest Storm Drain Improvement Project (CIP No. 3.1004) **Approved**

April 16, 2018- Appoint Mr. Kenneth Baughman to the Yuma County Flood Control Advisory Board At-Large member/city resident position for the term ending on August 20, 2021. **Approved**

May 21, 2018- Award the construction contract to DPE Construction, Inc., in the amount of \$3,537,577.00 for the Farwest Foothills Area Drainage Improvement Project (CIP #3.1004) and authorize the Flood Control Manager to sign the construction contract. **Approved**

June 18, 2018- Reappoint Jerry Cook to serve as Hearing Officer for Yuma County Zoning, Animal Control, and Floodplain violations for a term that begins July 1, 2018 and ends June 30, 2020. **Approved**

August 20, 2018- Reappointment of Elston Grubaugh to Flood Control Advisory Board. **Approved**

August 20, 2018- Actions regarding the Yuma County Annual Budget for Fiscal Year 2018-19 as follows: a) Conduct a combined public hearing on the Fiscal Year 2018-19 Annual Budget and the Truth and Taxation (primary & secondary property tax levies); b) Adopt Resolution No. 2018-19, a joint resolution of the County, the Yuma County Flood Control District, Public Health District, Jail District, Library District and all Improvement and Special Districts, adopting the Yuma County Budget for Fiscal Year 2018-19; at the proposed rate of \$ 0.2522 and c) Adopt Resolution No. 2018-20, a joint resolution of the County, the Yuma County Flood Control District, Public Health District, Jail District, and Library District, adjusting Employee Compensation and Program Funding. The one budget related action remaining after adopting the budget is that of setting the property tax rates and Improvement District assessment rates, which will occur at the August 20, 2018 Board Meeting. **Approved**

September 05, 2018- Grant a variance for Floodplain permit No.17-002 from the Yuma County Floodplain Regulation, Section 5.1.C.1.a, that this residential single family dwelling shall have the lowest floor, including mechanical and utility equipment, elevated to or above the Base Flood Elevation, located within the Coyote Wash Special Flood Hazard Area. **Approved**

October 01, 2018-Accept Study—Pump Station Discharge Improvement Project-CIP No.3.0503 **Approved**

October 15, 2018- a) Reestablish CIP No. 3.3503-North Frontage Road: Fortuna Road to Foothills Boulevard Drainage Improvement Project for FY19;

b) Adopt Budget Amendment Resolution No. 19-40 transferring budget authority in the amount of \$110,000 for CIP No. 3.0503 from Flood Control Contingency to Construction in Progress. **Approved**

November 19, 2018-Capital Improvement Plan Update for HURF & FCD Programs. Discuss and possible action on the status of FY 2008-19 Capital Improvement Projects in the Engineering and Flood Control District programs, provide feedback and guidance, and authorize the County Engineering to initiate budget amendments and other corrective actions as necessary. **Approved**

AGENDA ITEM 5

**HANDOUT
TO BE DISTRIBUTED
AT THE MEETING**

AGENDA ITEM 6

Yuma County
Flood Control Advisory Board
2019 Meeting Schedule

March 7, 2019

June 6, 2019

September 5, 2019

December 5, 2019