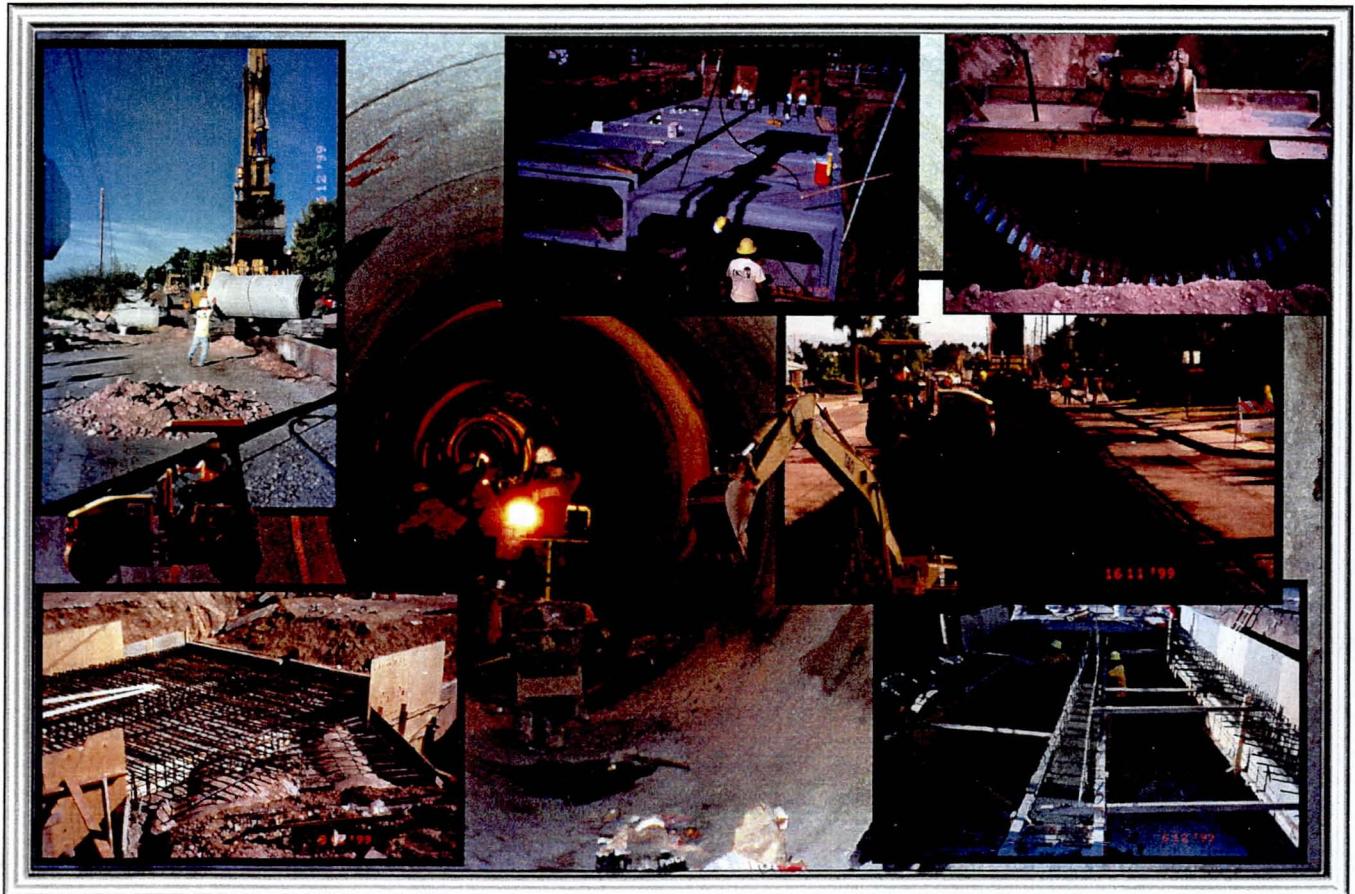


Five-Year Capital Improvement Program



For Fiscal Years 2000/2001 to 2004/2005



***Oak Street Storm Drain Phase II**

This project included storm drain pipe construction from 58th Street to east of Miller Road into the Indian Bend Wash along Oak Street; enlarging an existing detention basin at 66th Street and Palm Lane; and construction of catch basins, connector pipes, inlet structures and manholes; and several utility relocations.

Construction Manager: Art Dubois

Resident Engineer: Shewa Shivaswamy, P.E.

Partners: FCD, City of Phoenix, City of Scottsdale

Contractor: CS&W Contractors, Inc.

Designer: EEC/MKE

Photo Collage by Art Dubois

Table of Contents

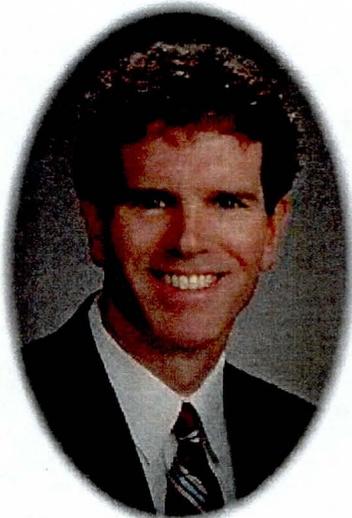
	Page
Alphabetical Listing of CIP Projects	2
Board of Directors	4
Flood Control Advisory Board	5
Principal Staff	6
Project Evaluation Committee	7
Mission/Vision/Pledge	8
Introduction	9
1.1 FCD Description and General Context	9
1.2 What is the Capital Improvement Program?	9
1.3 What is the Difference between the Capital Budget and the CIP?	10
1.4 Why Undertake CIP Planning?	10
Flood Control Planning and the CIP	11
2.1 Overview	11
2.2 The Planning Process	12
2.3 Prioritization Process	13
2.4 Prioritization Criteria	14
2.5 Integrating Projects into the Natural and Urban Environment	15
Financial Issues and the CIP	17
3.1 Balancing Future Revenues & Expenditures - Budgetary Challenges	17
3.2 Revenue Trends and Issues	18
3.3 Increased Cost Sharing with Municipalities	20
3.4 The CIP: Implementing FCD Financial Strategies and Priorities	21
Using This Document	22
CIP Project Budget	24
CIP Project Reimbursements	30
CIP Project Descriptions and Maps [Maps created by Kevin LaVallee]	31
Wall Map [Map created by Jim Smith]	

Alphabetical Listing of CIP Projects

Project Name	Act #	Page
35th Ave & Dobbins Basin & Storm Drain	117	43
43rd Ave. Storm Drain Project	117	41
67th Ave. Storm Drain	450	66
83rd Ave. GCS/Bell Park	400	54
91st Ave. / Union Hills Dr. D.I./Rose Garden Basin	450	65
Adobe Dam ADMP	520	79
Arcadia Area Drainage Project	103	39
Ashbrook / Balboa Wash Improvements	670	87
Baseline Road Storm Drain	117	42
Bethany Home Outfall Channel	620	83
Buckeye/Sun Valley ADMP	211	49
Central Chandler Area Drainage System	022	32
CIP Candidate Assessment Reports	051	38
Collector Channel (Southeast Valley Regional Drainage System)	490	75
Doubletree Ranch Road System	580	82
Durango ADMP	565	80
Elliot Detention Basin and Outfall Channel	442	59
Elliot Channel (Ellsworth to EMF)	442	60
Ellsworth Road Channel	442	62
EMF Capacity Mitigation	121	47
Five Basins along CAP	442	58
Gilbert/Mesa ADMP	492	78
Glendale/Peoria ADMS Update	450	63
Golden Eagle Park Dam	670	86
Greenway Parkway Channel	460	68
Higley Outfall Channel	491	76
Laveen ADMP	117	44
Loop 303 Corridor/White Tanks ADMP Update	470	70
Lower Spook Hill ADMP	422	56
McCormick Ranch Flood Protection	027	34
New River Bank (Paradise Shores)	400	53
North Peoria ADMP	452	67
Northern/Orangewood Storm Drain	450	64
Osborn Road Storm Drain	027	33
Phoenix Rio Salado	124	48

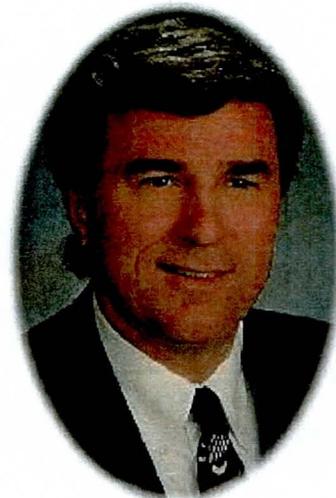
Alphabetical Listing of CIP Projects

Project Name	Act #	Page
Pima Road Channel (w/Pima Freeway/TPC)	680	89
Queen Creek Channelization	480	73
Rawhide Wash Detention Basin	680	90
Reata Pass Channel	680	88
Reems Road Channel	470	71
Rittenhouse Road Channel Project	480	72
Sanokai Wash Channelization	480	74
Scottsdale Road Corridor Improvement	120	46
Signal Butte ADMP	423	57
Sossaman Channel - US 60 to Baseline	108	40
Southeast Phoenix Regional Drainage System	630	85
South Phoenix/Three Basins	117	45
Southern Avenue Channel	442	61
Spook Hill ADMP	420	55
Stadium Basin West Inlet Channel	620	84
Structures Assessment Program	050	36
Town of Guadalupe	035	35
Union Hills Field Office	001	31
Upper New River (BLM) Land Acquisition	371	52
Warner/Greenfield Park Basin	491	77
White Tanks #3 FRS Modification	470	69
Wickenburg Wash "Q"	343	50
Wittmann ADMP Update	344	51



*Fulton Brock
District 1*

The Board of Supervisors for Maricopa County also serves as the Board of Directors for the Flood Control District of Maricopa County. There is one elected official from each of the five County districts. The Board of Directors makes the final decision regarding projects to be included in the Capital Improvement Program.



*Don Stapley
District 2*



BOARD OF DIRECTORS



*Andrew Kunasek
District 3*



*Jan Brewer
District 4*



*Mary Rose-Wilcox
District 5*

Flood Control Advisory Board



*Gilbert Rogers
District 1*

*Mike Saager
District 2*

*Hemant Patel, P.E.
District 3*

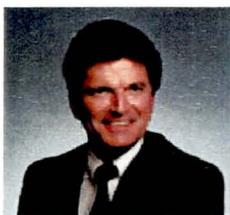
*Shirley Long
District 4*

*Melvin Martin
District 5*

The Flood Control Advisory Board (FCAB) acts in an advisory role to the Board of Directors on flood control, floodplain management, drainage, and related matters. The FCAB reviews planning, operations, and maintenance of flood control facilities, and recommends an annual budget, which includes a five year Capital Improvement Program (CIP) to the Board of Directors. The FCAB, in close coordination with the District staff, reviews program priorities and new policies, and provide their recommendations to the Board of Directors. The FCAB members also serve the District as members of the Floodplain Review Board and the Drainage Review Board.

The Advisory Board consists of seven members, five are appointed by the Board of Supervisors to five year terms. At least one member shall be a resident of the City of Phoenix. In addition to those five members, the Salt River Project and the City of Phoenix appoint representatives who are ex-officio members of the FCAB with all rights and privileges granted to other members.

Regular FCAB meetings are held on the 4th Wednesday of each month, and/or the first Wednesday in December. These meetings begin at 2:00pm in the Flood Control District Administrative Building. Please contact the Flood Control District at (602)506-1501 to confirm that a meeting is scheduled to occur.



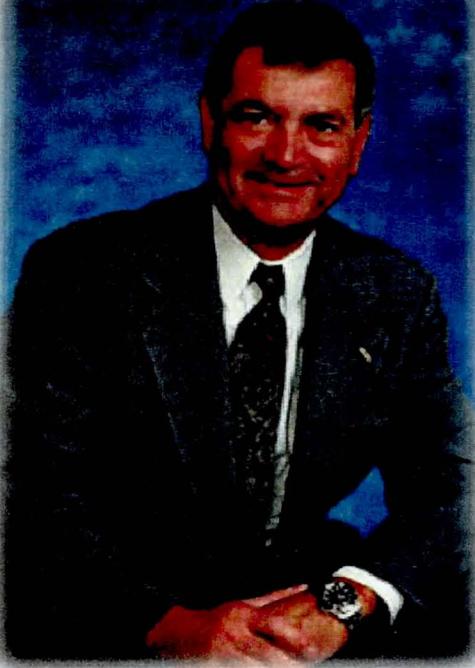
*Paul Cherrington, P.E.
Salt River Project
Ex Officio Member*

If you have any questions or need further information regarding the Flood Control Advisory Board, please E-mail *Kathy Smith, Executive Secretary (kks@mail.maricopa.gov)* or call (602)506-4708.



*Thomas Callow, P.E.
City of Phoenix
Ex Officio Member*

Principal Staff



Michael S. Ellegood, P.E.

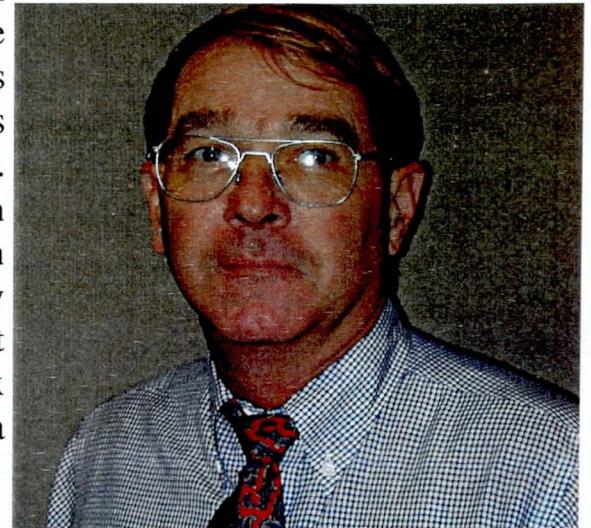
Chief Engineer and General Manager

Mr. Ellegood is a Registered Professional Engineer in Arizona, California, and New Jersey. He earned a Bachelor of Science degree in Civil Engineering from Carnegie Mellon and a Masters of Science in Civil Engineering from the Polytechnic Institute of New York. He served as a commissioned officer in the U.S. Army Corps of Engineers and is a Vietnam Veteran. Mr. Ellegood is a member of the American Society of Civil Engineers, the American Public Works Association, and the Society of American Military Engineers.

Thomas D. Johnson, P.E., R.L.S.

Deputy Chief Engineer/PPM Manager

Mr. Johnson is a graduate of the University of Kentucky with a BS degree in Civil Engineering and a graduate of ASU with a MSE degree in Civil Engineering. He is currently the Deputy Chief Engineer of the Flood Control District of Maricopa County where he is responsible for the planning, design, and construction of all the District's Capital Improvement projects. In addition, he is responsible for the District's Dam Safety Program. Mr. Johnson was commissioned in the U.S. Army upon graduation from Kentucky and served ten years in Combat and Construction Engineers within the Army Corps of Engineers, four years of which were spent overseas. Mr. Johnson is the President of the Phoenix Post: Society of American Military Engineers and is a member of the American Public Works Association.



Evaluation Committee

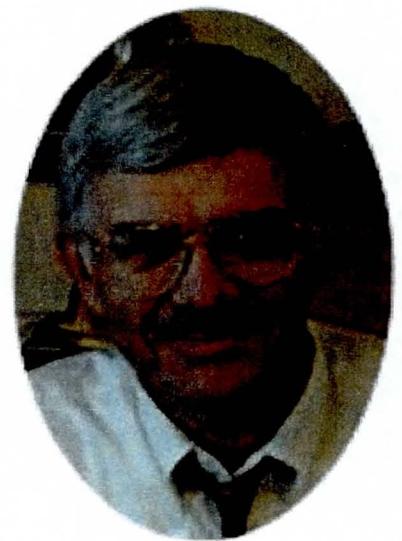
The Project Evaluation Committee comprised of senior District managers, make CIP recommendations to the Chief Engineer and General Manager and the FCAB Program and Budget Committee. Their recommendations are developed using a system that allocates points to individual projects based on specific criteria. For more information, see section 2.4 Prioritization Criteria on Page 14.



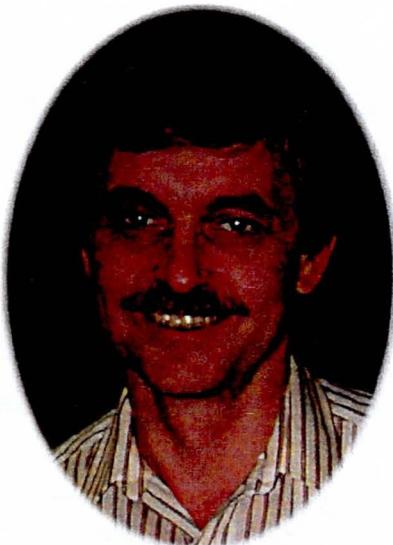
*D.R. Johnson
Manager
Regulatory Division*



*G.D. Lindop
Manager
Operations & Maintenance*



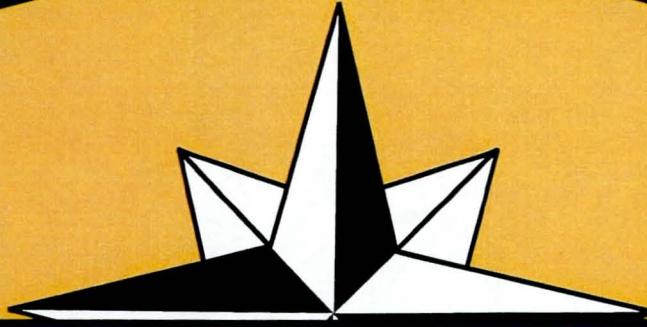
*R.G. Perreault
Manager
CIP/Policy Branch*



*E.A. Raleigh, P.E.
Manager
Engineering Division*



*J. L. Schwartzmann
Manager
Land Management Division*



MISSION

To reduce the risks of flood loss; minimize the impacts of floods on human safety, health, and welfare; and restore and preserve the natural and beneficial values served by floodplains.

VISION:

To be recognized throughout North America as an agency that is unsurpassed in its dedication to accomplishing its mission, and being responsive to its clients in an efficient, effective, and fiscally responsible manner. We will be known as stewards of the environment and the public trust, and for our concern about the effect of our actions for not only the current, but future generations.

PLEDGE:

We pledge to show personal integrity and professionalism in all our actions, and to display continuous improvement, innovative thinking, and technical excellence in all our work.

Introduction

1.1 FCD Description and General Context

The Flood Control District was formed on August 3, 1959, following passage of State legislation empowering counties to set up special districts to provide flood protection. Flood control districts are political subdivisions of the State and have the same powers, privileges and immunities generally given to incorporated cities and towns. The District is governed by a Board of Directors who is also the elected Board of Supervisors for Maricopa County. This Board, in turn, is advised by a seven-member Flood Control Advisory Board. The activities of the District are funded by a flood control tax levy assessed on real property within Maricopa County and a variety of cost-sharing arrangements with federal, state, county and local governments. The tax levy rate for the previous fiscal year (1999/00) was \$.2858 per \$100 of assessed value. The tax levy rate for Fiscal Year 2000/01 has been set at \$.2534 per \$100 of assessed value.

The District is organized into seven functional areas arranged in the following divisions: Administration, Operations & Maintenance, Engineering, Regulatory, Land Management, Information Technology, and Planning & Project Management. The Capital Improvement Program (CIP) serves as the cornerstone of the District's efforts to resolve flooding problems in Maricopa County. This booklet provides information on the anticipated expenditures for flood control projects and programs for the next five years, from July 2000 through June 2005.

Introduction

1.2 What is the Capital Improvement Program?

The Capital Improvement Program (CIP) for the Flood Control District is a Five-Year Plan that identifies spending for all anticipated capital projects. The Plan addresses both modification and replacement of existing infrastructure as well as the development of new facilities to accommodate future growth. This Plan also enables the District and its stakeholders to identify needed capital projects and coordinate financing and construction timing. To increase effectiveness, the CIP consists of two crucial segments; an administrative process to identify and prioritize future capital projects (the Prioritization Procedures) and the fiscal plan to provide for the funding of those projects.

The CIP links the planning and budget activities of the District. It can support past policy decisions by establishing priorities between existing and competing projects but can also measure and evaluate the merits of new proposals. Typically, a CIP describes each capital project proposed for development over the forthcoming five-year period by listing the year that it is to be started, the cost per year, and, when applicable, the proposed method of cost-sharing. Based on these details about each project, the District has developed annual cost

schedules for capital expenditures. Thus, the capital improvement program presents both the cost and funding for all the project requirements for flood control purposes as tempered by current and future financial capability.

Introduction

1.3 What is the Difference between the Capital Budget and the CIP?

The capital budget represents the first year of the capital improvement plan. The primary difference between the capital budget and the CIP is that the capital budget gives the District staff authority to spend funds and proceed with specific projects. The CIP includes both first-year projects as well as future projects for which financing has not been secured or authorized. The “out years” of the plan are projected, but not authorized and hence are subject to change. Every item in the capital budget must be approved by the Board of Directors and is closely reviewed by the Maricopa County Office of Management and Budget to ensure that it meets with the fiscal policies of the County. As a result, the capital budget must be prepared with great care owing to the need for accuracy as well as consistency with County revenue and expenditure forecasts for the upcoming year(s). The Five-Year CIP is developed and managed by the Planning and Project Management Division for the Chief Engineer and General Manager, the Flood Control Advisory Board, and the Board of Directors. Because it is not formally tied to the County’s budgeting process, it can be altered to reflect future requirements and expectations associated with capital projects more easily than the one-year capital budget.

Introduction

1.4 Why Undertake CIP Planning?

The CIP process is dynamic in that it helps with the planning for major expenditures in the future and adjusts project schedules as needs and circumstances change. The CIP’s five-year perspective allows projects to be planned and programmed ahead of actual authorization. But the yearly repetition of the Prioritization Procedures and the CIP process ensures that each project undergoes several stages of review before it is finally approved and funded. This approach to capital planning is particularly meaningful in the rapid growth environment of Maricopa County. It ensures that new facilities will be evaluated within the context of County and municipal land use plans and weighed against safety and maintenance requirements for existing structures.

Among its many advantages, an effective capital improvement program:

- Focuses attention on goals, needs, and objectives. It ensures that the District's capital projects are consistent with changing community objectives, anticipated growth, and financial capabilities.
- Requires the scheduling of major investments and avoids the possibility of costly mistakes. It assists the Flood Control Advisory Board and the Board of Directors with making sound budget decisions.
- Facilitates more efficient administration and management. Coordination of necessary capital improvements can reduce scheduling problems, conflicting and overlapping projects, and overemphasis on any single function or geographic area.
- Promotes cooperation with other jurisdictions. The capital planning process gives all jurisdictions the opportunity to co-ordinate location, timing, and financing of related projects.
- Includes leveraging of FCD funds with other funding sources.
- Maintains a sound and stable financial program. Dramatic changes in the County's tax structure can be avoided when capital projects are planned and spaced over several years.

Flood Control Planning and the CIP

2.1 Overview

The District maintains the Five-Year Capital Improvement Program (CIP) as called for in state statutes and directed by the District's General Policies. The Five-Year CIP includes all costs associated with the implementation of projects or elements of projects that have been proposed by federal, state, District or local programs. The selected projects are reviewed through the District's Prioritization Procedures that were approved by the Board of Directors in 1993 and put into effect for the Fiscal Year 1994/1995. These procedures were amended in 1995 and 1997, and reviewed in 1999. The prioritization process solicits project requests from the District's client communities and other agencies. The process allows comparisons between competing projects to ensure that CIP expenditures are allocated toward the greatest need.

Following the allocation of funds necessary for maintenance and other mandatory programs, the District budgets the remaining tax revenues for capital improvement projects and the related planning programs. When possible, multi-purpose uses of flood control projects and property are promoted and accommodated. This is possible provided the use does not interfere with the flood control projects' primary purposes. In addition, the project costs and the facility's maintenance requirements should not be significantly increased.

Flood Control Planning and the CIP

2.2 The Planning Process

The Planning Program promotes the District's mission of "...reducing flood risks for the people of Maricopa County..." by preparing comprehensive regional studies and analyses identifying locations and property at risk from potential flooding. Following an analysis of flooding problems, alternative solutions are developed to determine the most cost effective and publicly acceptable project. Recommended projects are then prioritized for inclusion in the District's CIP. The CIP allocates resources and provides a timetable for the implementation of individual projects. This process usually includes the project design, relocation of conflicting facilities, acquisition of property and construction phases.

The combined Planning Program and Capital Improvement Program account for approximately eighty percent of the total Flood Control District annual budget. During FY 1999/2000, the District, in cooperation with other agencies and municipalities, completed five major long-term flood control capital projects and continued or initiated capital operations on thirty-eight other projects. At the outset of Fiscal year 2000/2001, sixteen CIP projects are in the construction stage, fourteen are being designed, while eight are in the planning and/or land acquisition stage. In addition, the District will initiate effort on fourteen new projects during the year by pursuing Board of Director Authorization and consummating Inter-Governmental Agreements with other agencies and municipalities. Activities in the Planning Program include: Area Drainage Master Studies (ADMSs); Watercourse Master Plans; the Comprehensive Flood Control Master Report; as well as, project pre-design studies; and the coordination of interagency cooperative projects and agreements. The District will continue to strive to protect the close historical working relationship it presently enjoys with the other municipal, county, state and federal agencies involved in furthering the District's mission.

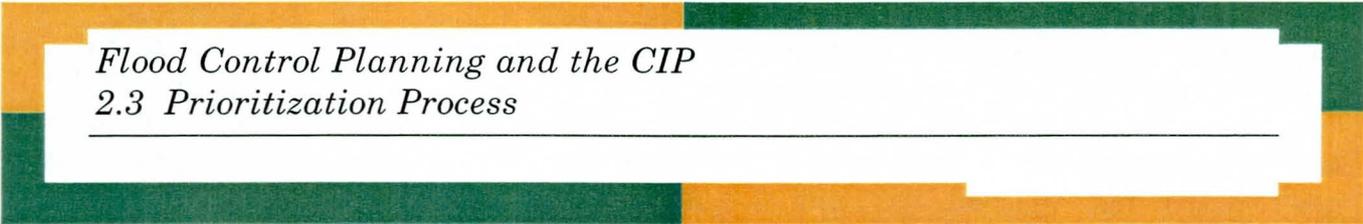
Information on flooding and flood-prone areas is generated through the Area Drainage Master Study (ADMS) Program. The ADMS program was conceived in 1983 to provide the District with a proactive and leadership role in developing uniform, comprehensive inventories and models of the features influencing rainfall-runoff in selected areas. There are forty-eight ADMS areas ranging from 15 to 580 square miles. Area Drainage Master Plans (ADMPs) are then undertaken for each of the ADMS areas. These plans utilize the information provided by ADMSs and recommend specific, project-oriented solutions for flooding problems. The ADMPs, along with requests from cities, towns and other agencies, are intended to be major sources of projects for the CIP.

The ADMS Program supports the planning effort by providing the physical characteristics and hydrology for a specific area. This Program utilizes a comprehensive watershed perspective, which is used to identify drainage and flooding problems reported by individual communities. Selected and approved alternatives to solve these problems are identified through the ADMPs and are implemented through the CIP. Watercourse Master Plans (WCMP) are similar to ADMPs, except that a WCMP has more of a focus on the management of a

particular river, stream, creek or wash and its banks and nearby flood zones, while an ADMP focuses on flooding issues over a wider drainage area.

The proposed FY 2000/01 Planning Program will continue nine studies initiated during Fiscal Year 1999-00; six (6) ADMS/ADMP studies (Gila Bend, Spook Hill, Glendale/Peoria, White Tanks/Loop 303, Durango, and North Peoria), and three (3) Watercourse Master Plans (East Maricopa Floodway (EMF) Capacity Mitigation and Multi-use, Agua Fria, and Skunk Creek). The proposed planning program for FY 2000/01 also includes seven studies which will be initiated during the Fiscal Year; three (3) new ADMS/ADMP studies (Laveen, Adobe Dam, Desert Hills), one (1) new Watercourse Master Plan (El Rio - Gila River from Agua Fria to MC85) and three (3) project specific Master Plans (PVSP Update - Scottsdale Road, Town of Carefree, and Granite Reef Wash). See Exhibit A for a listing of the FY 2000-01 studies and Exhibit B for the geographical location of the proposed studies.

The proposed planning program also includes planning studies: (1) The Structures Assessment Program to assess dam safety and encroachment upon the District's 23 existing dams; (2) Existing Structures Multi-use and Aesthetic Evaluation Project for evaluation of existing structures completed prior to the Landscaping and Aesthetic Policy; (3) Project Management Plans to develop implementation plans for upcoming ADMS and ADMP studies; (4) Candidate Assessment Reports to develop information for candidate projects to the District's Capital Improvement Program.



Flood Control Planning and the CIP

2.3 Prioritization Process

The Prioritization Procedures, employed by the District, were initially implemented for the FY 1994/1995 budget cycle and have been used since that time. They serve as the mechanism for determining new CIP projects. Potential CIP projects are identified either by local cities, towns and other agencies, or through other District programs. The potential projects are evaluated on an annual basis for inclusion in the latter years of the CIP.

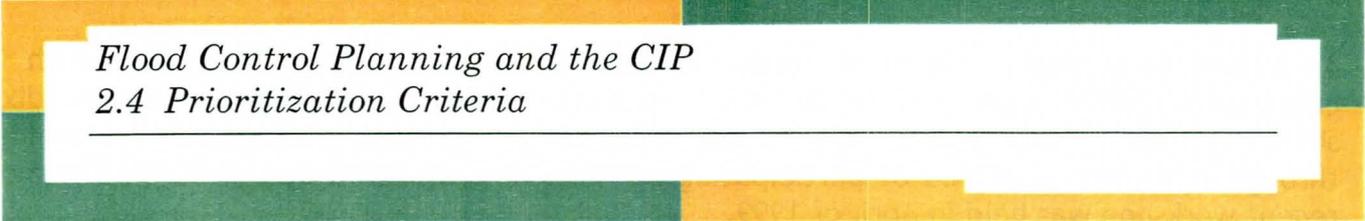
An important aspect of the Prioritization Procedures is the District's cooperation with its client communities in defining the criteria for project reviews. Tables included in Appendix 1 show the specific criteria and weights used in identifying project priorities, as determined through workshops attended by participating agencies and approved by the FCAB. The most recent workshop was held in April of 1999.

The primary benefits of the Prioritization Procedures have been their ability to:

- Reduce uncertainty by applying District-approved and community-reviewed criteria during the project review process;
- Improve fiscal efficiency by requiring concurrent review of all project proposals and timing this review with the District's budget cycle;
- Eliminate duplication and improve community commitment by focusing planning efforts on projects approved for pre-design/feasibility analysis; and,
- Provide a means for reconstructing or reprioritizing the budget and Five-Year CIP with a minimum of disruption to ongoing activities by using an objective rank ordering system.

The prioritization procedure is accomplished in two major steps. First, all newly proposed projects are evaluated according to predetermined and weighted criteria by a committee of senior District staff members. The selected projects are included in a District-funded and prioritized pre-design study program. Requesting agencies may complete prioritized pre-design studies using consultants or in-house resources, provided the information produced meets the minimum requirements of District-sponsored studies. The purpose of the pre-design study program is to develop more detailed information on potential CIP projects. This includes design and construction costs, land acquisition requirements, required permits, mitigation and multiple-use potential.

The second step includes the evaluation and prioritization of projects for inclusion in the District's Five-Year CIP. For projects requiring an Intergovernmental Agreement (IGA), the information developed in the pre-design study will serve as the basis for negotiations. When ADMPs are completed, a number of future pre-design studies and CIP project requests are identified. Input regarding the priorities for projects identified within these plans, will continue to be provided to local cities, towns and other agencies. When a CIP project has progressed to the stage where the engineering design, plans and construction specifications are being prepared, its place in the Five-Year CIP program is generally maintained. The stability and timeliness of CIP project implementation are important to the timing of interrelated projects.



Flood Control Planning and the CIP
2.4 Prioritization Criteria

The Project Evaluation Committee that makes recommendations to the Chief Engineer and General Manager and the FCAB Program and Budget Committee develops their

recommendations using a system that allocates points to individual projects based on specific criteria. These criteria include:

- Submitting Agency Priority
- Master Plan Element
- Hydrologic/Hydraulic Significance
- Level of Protection
- Area Protected
- Environmental Quality
- Area-Wide Benefits
- Total Project Cost
- Level of Partner(s) Participation
- Operation and Maintenance Costs
- Operation and Maintenance Responsibility

The prioritization criteria were developed with the goal of promoting a balanced approach to the evaluation of proposed projects. The District tries to identify and support flood control and regional drainage projects that not only provide long-term protection to individuals and property from flash floods and seasonal flooding, but that contribute to community development, protection of natural habitat, and maintenance of watercourse flow paths. The District also leverages its limited resources by entering into joint efforts with other agencies, municipalities or the private sector to fund flood control projects, and this is reflected in the prioritization criteria. Higher scores are given to projects that involve cost-sharing partnerships for the construction phase and/or that involve agreements by other agencies or municipalities to take responsibility for post-construction operations and maintenance.

Although the relative weighting given to each criterion (total points per category) and the points actually assigned to each criterion for a given project by an Evaluation Committee member is somewhat subjective in nature, the evaluation procedure provides a uniform degree of objectivity to the process. The costs and benefits of the proposed projects are explicitly identified and documented. Proposed projects can be more easily compared once individual types of benefits and costs are separately quantified or otherwise evaluated. The inclusion of at least six senior staff representing different functional competencies on the Evaluation Committee further reduces the degree of subjectivity by ensuring that no one individual's personal biases excessively influence the evaluation process.

Flood Control Planning and the CIP

2.5 Integrating Projects into the Natural & Urban Environment

The District has made an additional commitment to ensuring that new flood control projects not only protect people and property from flooding threats, but also provide additional

benefits. These benefits can include increased protection for natural habitat, new recreational facilities and open space, and aesthetically pleasing designs that contribute to the revitalization of urban areas. Although Maricopa County is located in a largely desert environment, much of the County is subdivided by canals, rivers, creeks and washes, and these linear attributes are a significant feature of the physical character of the area. Dams, retention basins, channels and outfalls can also be found throughout the County, and can have a major beneficial or negative impact on adjacent neighborhoods and natural areas depending on the design and management of these facilities.

The District is a partner in a number of efforts such as the **Marathon Trail** and the Phoenix Rio Salado Project, where flood control facilities are included as part of major urban redevelopment, environmental restoration and/or large scale recreational facility development. If resources are available, many existing flood control systems and facilities in established urban areas could be retrofitted or altered to allow for additional benefits or activities. Many District rights-of-way or facilities offer the potential to also provide bicycle/walking paths, habitat for native species, or attractions for local businesses, without threatening the underlying flood control role of these projects.

This **Phoenix Rio Salado Project** represents a cooperative effort between the U.S. Army Corps of Engineers (USACE), the City of Phoenix (COP), and the Flood Control District (FCD) to develop, design and construct a project that will return a portion of the Salt River to a more natural environment. The project will bring together habitat restoration and flood control into a single project. As the lead sponsoring agency, the USACE has developed and is responsible for the design of the project which will restore habitat and include a low flow flood control channel within the Salt River from 19th Avenue upstream to about 28th Street. The COP as the local project sponsor is responsible for implementing the habitat restoration along with the USACE, and brings considerable funding to the project. The FCD as a partner with the COP will be responsible for the construction of the low flow flood control channel, and will bring \$11,000,000 in funding to the project. The project has been in development for a number of years. In the fall of 1998 a thorough Value Engineering (VE) Analysis was undertaken by the USACE, with input from the COP and the FCD. This VE analysis was used to determine the best alternative approach for design and construction of the project. Design is underway, and construction of the first phase of the low flow flood control channel has begun. Total project completion is expected by the summer of 2003.

The **SEVRDS Project** represents a cooperative effort between the Arizona Department of Transportation (ADOT), the City of Chandler (COC), the Gila River Indian Community (Community), and the Flood Control District (FCD) to develop, design and construction a regional flood control project. The project, consisting of channels, basins, and water quality treatment cells, will capture drainage from a 58 square mile water shed and safely convey the flows to the Gila Drain

Floodway located on Community lands, and eventually discharging to the Gila River. The project will accommodate ADOT freeway drainage needs, provide a much needed storm drain system outlet for the COC, and protect the Community from significant flood flows generated off the Community. The project funding is being shared between ADOT, the COC, and the

FCD. The Community is providing certain land rights for the project. The project will introduce the use of water quality treatment basins as part of a flood control system as a means of cleaning up storm water before being discharged into existing watercourses such as the Gila River.

Financial Issues and the CIP

3.1 Balancing Future Revenues & Expenditures-Budgetary Challenges

The FCD operates on a "pay-as-you-go" basis. This means that the FCD's entire capital budget is funded from current revenues, and that no borrowing takes place to finance capital projects like dams, channels and levees. The major advantages of this are that the FCD carries no debt load, that County taxpayers do not have to pay for interest charges on FCD structures, and that there is no need to try to match future debt and interest repayments with future revenues. Since a majority of the FCD's revenues are spent on the CIP and long-term capital expenditures on flood control protection, taxpayers are in effect investing in the future of the County and their property and safety. This policy is quite different from that utilized by most government entities, which usually spend all current revenues on current expenditures and debt repayment associated with past capital expenditures.

Most large government and private sector organizations that plan and construct very large projects over extended periods of time borrow funds to finance these large projects, and then pay for them over many years. Because these principal and interest costs can be distributed over many years, and the necessary funds are obtained from lenders at the beginning of projects, it is relatively easy for these organizations to plan their long-term capital budgets. The majority of the District's revenue is derived from a secondary tax whose revenues can be difficult to predict because tax valuations based on property values can fluctuate significantly. The rate of growth in urban areas, and thus total tax revenues, can also have a major impact on total District revenues obtained in any given year. A strong economy, high levels of residential, commercial and industrial development, and rising property values will all lead to higher District revenues; conversely a poor economy and falling property values would lead to reduced tax revenue for the District, for a given tax rate.

Because the District's capital spending is affected by strong fluctuations in tax revenue, the CIP must be constantly reviewed and altered to reflect the most recent information on current revenues and expected revenues over the coming years. In the early 1990's, a weak economy led to lower District tax revenues, and capital spending had to be reduced to reflect this reality. More recently, high levels of housing, industrial and commercial development and rising property values have led to increased needs for flood control projects and increased assessment values. This has necessitated an expansion in the capital budget to initiate required projects while funds are available. Another factor that has had a major

impact on District revenues has been the need to reallocate tax revenues among various County entities. The members of the Board of Directors, who are also the members of the County Board of Supervisors, sometimes alter the secondary tax rate to meet overall County fiscal objectives, and this too can have a major impact on the District.



Financial Issues and the CIP
3.2 Revenue Trends and Issues:

Funding availability for the CIP is based on estimates that combine anticipated revenues from numerous sources with the District's anticipated flood control tax revenues. The District's tax revenues are a function of the tax rate, which is set annually by the Board of Directors. The Flood Control District tax applies to the assessed real property valuations, which are also set annually by the County Board of Supervisors. The majority of the District's Operating and CIP revenues come from the flood control tax that is levied County-wide.

Additional revenue results from the sale or lease of District rights-of-way and reimbursements from project cost-share partners. Over the past ten years, the inflation-adjusted revenues provided by the Secondary Tax to the District have fallen significantly, and when the increased size of the County's population and increased flood control needs associated with this larger urban area are taken into account, it is apparent that the District is being asked to do more with less. It is anticipated that the District's tax revenues over the coming five years will need to be increase above the current \$45 million level if projects in the CIP are to be funded.

Table 1—FCD Tax Rates by Fiscal Year

	Fiscal Year Tax Rate	Tax Revenue	
	00/01	0.2534	\$44,505,216 (est)
	99/00	0.2858	\$43,992,461
	98/99	0.3270	\$44,995,000
	97/98	0.3425	\$42,697,000
	96/97	0.3413	\$38,501,000
	95/96	0.3632	\$36,085,500
	94/95	0.3332	\$35,300,000
	93/94	0.3632	\$35,400,000
	92/93	0.3901	\$39,715,000
	91/92	0.4447	\$46,879,000
	90/91	0.4235	\$45,797,000
	89/90	0.4303	\$46,408,000
	88/89	0.5000	\$51,345,000
	87/88	0.5000	\$46,059,000

The CIP amounts shown in Table 2 reflect the District's FY 00/01-04/05 CIP forecasts. Annually, District staff will recommend that the Board of Directors set the secondary Flood Control tax rate sufficient to generate the required tax revenue to accomplish the CIP.

Table 2—Estimated 5-Year CIP Funding

Fiscal Year	Tax Revenue	CIP Amount
00/01	\$44,505,216	\$65,480,000
01/02	\$47,381,000	\$55,619,000
02/03	\$56,495,000	\$55,130,000
03/04	\$62,854,000	\$55,605,000
04/05	\$60,833,000	\$54,765,000

Financial Issues and the CIP

3.3 Increased Cost Sharing with Municipalities

Throughout the history of the Flood Control District of Maricopa County, the District has had to adapt to the evolution of the fiscal, political and institutional environment in which it operates. For most of the 1970s and 1980s, the District was heavily involved in cost-sharing partnerships with the Federal and State governments, initiating and participating in flood control projects that were planned and funded in large part by higher levels of government. With the virtual end of large-scale participation in regional flood control activities by the Federal Government and the State, the District was left in the position of being the primary source of technical expertise and financial resources for flood control in Maricopa County. As a result, the District must deal with a wide range of regional flood control challenges with a limited budget.

More recently, the District has adopted a number of strategies to address regional flood control problems while minimizing financial requirements. Under the direction of the Board of Directors and Flood Control Advisory Board, District staff have made a concerted effort to make maximum use of every dollar spent. A strategy used to obtain the "most bang for the buck" has been to leverage District capital program expenditures with contributions from municipalities and other agencies. One of the selection criteria for potential projects is the degree to which the projects will be paid for by other government entities; if a higher level of cost sharing can be negotiated, the projects are given a higher priority ranking by the District. A District goal is that it should only have to pay for half to two-thirds of the design and construction costs and that a municipality or other agency will be responsible for the remainder of those costs and for future operations and maintenance.

Reviewing the total dollar amount of reimbursements provided by the District's partners during the 1980s, it is clearly evident that the trend is towards rising reimbursements. While total reimbursements were only approximately \$2.4 million in FY 1992/93, they had grown to approximately \$7 million by FY 1996/97, and are projected to rise to almost \$20.8 million in FY 00/01 (some future year projects do not have signed IGAs; projected reimbursements could still change). Similarly, an examination of reimbursements as a percentage of total capital program expenditures indicates that the long-term trend is towards higher levels of cost-sharing. While in FY 1992/93 less than 10% of the District's capital program was funded by reimbursements from municipalities and other agencies, in FY 99/00 more than a quarter of the capital program budget was provided by other government entities.

Expenditures made by the District to operate and maintain flood control structures and adjacent property are substantial; in FY 99/00 these operations and maintenance (O&M) costs were approximately \$4.2 million, or about 6.9% of the total budget. One of the most important strategies of the District in recent years in terms of minimizing future expenditures and of providing the most regional flood control protection at the least cost has been to enter

into partnerships on projects where the District is responsible only for capital costs and not for O&M costs. To date, the District has been very successful in negotiating cost-sharing agreements in which the District is absolved of any responsibility for future maintenance or operations. A large number of new projects involve intergovernmental agreements (IGAs) that restrict District involvement to only initial capital costs. More simply put, by following a policy of not assuming O&M on most projects since the early 1990s, the District will spend \$1.4 million (\$1998) less on O&M annually by the year 2004.

Financial Issues and the CIP

3.4 The CIP: Implementing F.C.D. Financial Strategies & Priorities

The District's capital spending utilizes the majority of the District's overall revenues, and the District's capital spending is directed by the Five-Year CIP. As a result, the Five-Year CIP must incorporate the District's strategies and priorities, and facilitate the achievement of the District's mission and objectives. Among the District strategies/priorities that are reflected in planned expenditures included in the Five Year CIP are:

- An increased emphasis on cost-sharing and partnerships so that the District is best able to leverage its limited financial resources into the most long-term flood control protection possible throughout the County. Partner contributions should be concurrent with District expenditures.
- A preference for partnerships in which the other partners (e.g. municipalities, agencies) assume full responsibility for operations and maintenance activities once the project has been completed.

A continuing commitment to balance expenditures between newly-developing areas on the fringe of the urban metropolis, and existing older communities where retrofitting, repairs and project improvements are needed.

- A commitment to avoid the construction of new conventional hard structures when non-structural approaches such as flood plain delineation and management, natural watercourse improvements, and/or minor improvements to natural drainage patterns can be used just as effectively from an economic perspective to protect lives and property.
- A focus on minimizing project costs and streamlining the contract tendering and management processes using information systems that track project progress and analyze engineering, land, and construction costs.
- Use of District-developed hydrological and flood control planning information by other entities so that private development infrastructure is built to District standards.

4.0 How to Use This Document

Included in this document are narrative descriptions and location maps for the four dozen projects that the Flood Control District of Maricopa County proposes to implement during the next five years (FY 00/01 through FY 04/05) and summaries of the CIP budget that show projected expenditures by "Area" (groupings of projects) and by "Project" (individual facilities and systems). Table 3 (Final) from FY 00/01 Prioritization provides a summary of the results of the FY 00/01 Prioritization Process. Included in these tables are each of the projects recommended for CIP consideration through previous prioritization processes. Prioritization Procedures include a description of the procedures and criteria used in evaluating potential CIP projects.

The CIP budget in the Summary and Detailed Spreadsheet is provided in two different formats. Each summarizes estimated expenditures for all projects proposed for the District's Five-Year Capital Improvement Program for fiscal years 00/01 through 04/05. The first format (5.1) is a summary of all of the CIP expenditures by "Area". Every Project Control Number (PCN) is made up of a seven digit code that is used for tracking costs. The first three digits identify the "Area", or clustering or family of projects, and this is the level of detail that is used in the summary of CIP expenditures. For example, the White Tanks "Area" code includes six "Projects" that originated from the White Tanks Area Drainage Master Plan. In the summary, these individual "Projects" and their "Components" are not shown. The second format (5.2) provides a more detailed listing of expenditures by individual projects, which are shown with both the three digit "Area Code" and the two digit "Project Code".

The figures in both tables are shown in thousands of dollars (i.e. 10 equals \$10,000), for ease of display, and are shown by fiscal year for each of the five years. A "Total" column sums all of the expenditures, by project, proposed during the five-year period. It is important to note that although most of the projects are scheduled to be completed in five years, those identified with an asterisk (*) will be continued beyond the five-year period. Possible reasons include: availability of funding; status of design or construction plans; or incompatible schedules of other related activities. Also included in the tables are columns showing supervisor districts and the municipality where the project is located.

A description and details are provided for every project name and associated project control number appearing in the Five-Year CIP. Each project can thus be found in this document. Every project description includes basic information such as project name, project control number, the municipality or municipalities in which the project is located, partners involved with the design, administration, construction and/or funding of the project, anticipated beneficial results of the project, and the timing and cost of the project. The projects are listed in order of their project control numbers, or PCNs. An alphabetical list of projects is also provided at the beginning of this document that provides the PCN and page number for

each project. The project managers responsible for each project and how to contact them is listed with the project descriptions. The project managers may also be contacted through the general FCD switchboard at (602)506-1501.

In some cases, such as those in which the planning and design work is complete and construction is already underway, the scope and cost of the project are almost entirely known. In others, a project might only be in the planning and design stage, and the exact physical design, geographical location, and total cost of the project are still unknown. As a result, the further along the project is, the more likely the project description is to be a complete and dependable guide to the specifics of the project. It should be noted that projects still in the early stages of the development process will be subject to change, and that significant increases or decreases in project costs do occur well into the design stage. In some cases District projects can be combined with other projects undertaken by ADOT or MCDOT, leading to major reductions in project costs, while in others, unforeseen land acquisition or project engineering costs can greatly increase project costs.

Questions or comments concerning this document or the District's 5-year Capital Improvement Program may be sent to:

R. G. Perreault, CIP/Policy Branch Manager (602)506-4771
rgp@mail.maricopa.gov (602)506-4774

or

K. L. Presson, CIP Decision Support Analyst
klp@mail.maricopa.gov

This information is available on the FCD web site at:
<http://www.fcd.maricopa.gov>

CIP Project Budget

SUMMARY				X \$ 1,000	Five Year CIP				
CITY	DIST.	ACT #	DESCRIPTION	FY 00/01	FY 01/02	FY 02/03	FY 03/04	FY 04/05	5-Yr TOTAL
			<i>Tax Rate:</i>	0.2534					
Multiple	All	C001	FCD Operations	183	0	0	0	0	183
Chandler	1	C022	Central Chandler Area Drainage System	800	850	1,860	1,860	0	5,370
Scottsdale	2	C027	City of Scottsdale	6,812	0	0	0	0	6,812
Guadalupe	5	C035	Town of Guadalupe	799	2,000	2,500	0	375	5,674
Multiple	All	C050	Dam Safety Project	949	700	700	700	700	3,749 *
Multiple	All	C051	Candidate Assessment Reports	196	150	150	150	150	796
Phoenix	1,2,3	C103	Old Cross Cut Canal	0	0	0	0	500	500 *
Mesa	1,2	C108	Sossaman Channel	52	0	0	0	0	52
Multiple	1,5	C117	South Phoenix Drainage Improvement	3,587	2,900	300	5,900	8,100	20,787
Multiple	2	C120	PVSP	0	300	0	1,000	2,100	3,400
Multiple	1	C121	East Maricopa Floodway	2,219	500	6,100	4,600	6,000	19,419 *
Phoenix	5	C124	Phoenix Rio Salado	7,844	5,250	0	0	0	13,094
Buckeye/UMC	4	C211	Buckeye/Sun Valley ADMP	0	0	1,400	975	240	2,615 *
Wickenburg	4	C343	Wickenburg "Q" Wash	30	0	0	0	0	30
Surprise/UMC	4,5	C344	Wittmann ADMP Update	0	400	650	740	0	1,790
Multiple	4	C362	Skunk Creek	0	0	0	0	0	0
UMC	3	C371	New River (BLM) Land Acquisition	6	0	0	0	0	6
Multiple	4	C400	Skunk Creek/New River	20	450	1,550	2,300	0	4,320
Mesa/UMC	2	C420	Spook Hill ADMP	1,117	0	0	800	5,000	6,917 *
Mesa/Pinal County	2	C422	Lower Spook Hill ADMP	0	120	200	230	0	550 *
Mesa/Pinal County	1	C423	Signal Butte ADMP	0	0	100	400	0	500 *
Mesa	1,2	C442	East Mesa ADMP	6,086	10,210	5,840	2,600	0	24,736 *
Multiple	4	C450	Glendale/Peoria ADMP	6,398	0	1,420	0	0	7,818
Peoria	4	C452	North Peoria ADMP	932	0	0	0	0	932
Phoenix	3	C460	East Fork Cave Creek ADMP	2,250	0	0	0	0	2,250
Multiple	4,5	C470	White Tanks ADMP	2,738	5,222	7,000	3,000	6,000	23,960 *
Multiple	1	C480	Queen Creek ADMP	1,522	1,280	460	1,200	3,000	7,462 *
Chandler	1	C490	Gilbert/Chandler ADMP	6,356	0	0	0	0	6,356
Gilbert/Mesa	1	C491	Higley ADMP	365	300	1,000	5,000	4,000	10,665 *
Gilbert/Mesa		C492	Gilbert/Mesa ADMP	0	0	0	0	600	600
Phoenix/UMC	3,4	C520	Adobe Dam ADMP	300	300	200	0	0	800
Tolleson, Avondale, Phx	1,5	C565	Durango ADMP	715	1,000	3,200	2,800	3,200	10,915 *
Phoenix/PV	2,3	C580	ACDC ADMP	3,845	8,750	0	0	0	12,595
Phoenix	4,5	C620	Maryvale ADMP	1,640	6,237	5,500	2,250	2,500	18,127
Phoenix	5	C625	Metro ADMP	0	0	1,200	4,300	1,500	7,000 *
Phoenix	1	C630	Foothills ADMP	4,177	0	0	0	0	4,177
Fntn. Hills	2	C670	Fountain Hills ADMP	958	0	700	0	0	1,658
Scottsdale	2	C680	UIBW ADMP	0	7,200	10,300	12,000	8,000	37,500 *
SUBTOTAL PROJECTS				\$62,896	\$54,119	\$52,330	\$52,805	\$51,965	\$274,115
CIP PROJECT CONTINGENCY				2,584	1,500	2,800	2,800	2,800	12,484
Supplies & Services				906	933	961	990	1,020	4,810
Force				2,450	2,510	2,572	2,637	2,703	12,872
PROJECTS TOTAL				\$68,836	\$59,062	\$58,663	\$59,232	\$58,488	\$304,281

* = Projects not completed during the five year CIP.

**Flood Control District of Maricopa County
CIP Budget/Schedule FY 00-05**

July 1, 2000			Five Year CIP (x\$1000)					5-Yr TOTAL	
CITY	DIST.	ACT #	DESCRIPTION	FY 00/01	FY 01/02	FY 02/03	FY 03/04		FY 04/05
			Tax Rate:	0.2534					
Multiple	All	C001	FCD OPERATIONAL FACILITIES	183	0	0	0	0	183
Multiple	All		FCD Adobe Room AV System	33	0	0	0	0	33
Multiple	All		FCD Building ReWire	0	0	0	0	0	0
Multiple	All		Union Hills Drive Field Office	150	0	0	0	0	150
Multiple	2,4	C002	STORMWATER MONITORING SYSTEM	0	0	0	0	0	0
Multiple	2,4		Stormwater Monitoring System	0	0	0	0	0	0
Multiple	All	C017	FLOOD WARNING SYSTEM	0	0	0	0	0	0
Multiple	All		Flood Warning System	0	0	0	0	0	0
Chandler	1	C022	DOWNTOWN CHANDLER STORM DRAIN SYSTEM	800	850	1,860	1,860	0	5,370
Chandler	1		Downtown Chandler Storm Drain System	800	850	1,860	1,860	0	5,370
Multiple	Multiple	C027	CITY OF SCOTTSDALE	6,812	0	0	0	0	6,812
Scottsdale	2		84th Street / Cholla Basin Drain	0	0	0	0	0	0
Multiple	1,2,5		Oak Street Storm Drain Outfall	44	0	0	0	0	44
Scottsdale	2		Osborn Road Storm Drain Outfall	6,768	0	0	0	0	6,768
Scottsdale	2		McCormick Ranch Flood Protection	0	0	0	0	0	0
Guadalupe	5	C035	TOWN OF GUADALUPE	799	2,000	2,500	0	375	5,674
Guadalupe	5		Town of Guadalupe	799	2,000	2,500	0	375	5,674
Multiple	All	C050	DAM ASSESSMENT PROJECT	949	700	700	700	700	3,749
Multiple	All		Dam Assessment Project	949	700	700	700	700	3,749
Multiple	All	C051	CIP CARS	196	150	150	150	150	796
Multiple	All		CIP Candidate Assessment Reports	196	150	150	150	150	796
Phoenix	2,3	C103	OLD CROSS CUT CANAL	0	0	0	0	500	500
Phoenix	2,3		Arcadia Area Drainage Project	0	0	0	0	500	500
Mesa	1	C108	SOSSAMAN CHANNEL	52	0	0	0	0	52
Mesa	1		Sossaman Channel - US 60 to Baseline	52	0	0	0	0	52

**Flood Control District of Maricopa County
CIP Budget/Schedule FY 00-05**

July 1, 2000			Five Year CIP (x\$1000)					5-Yr TOTAL	
CITY	DIST.	ACT #	DESCRIPTION	FY 00/01	FY 01/02	FY 02/03	FY 03/04		FY 04/05
			Tax Rate:	0.2534					
Phoenix/UMC	1,5	C117	SOUTH PHOENIX DRAINAGE IMPROVEMENT	3,587	2,900	300	5,900	8,100	20,787
Phoenix/UMC	5		South Phoenix/Three Basins	0	0	300	3,900	3,100	7,300
Phoenix/UMC	1,5		Laveen ADMP	700	500	0	2,000	5,000	8,200
Phoenix/UMC	5		35th Ave & Dobbins Basin & SD	230	0	0	0	0	230
Phoenix/UMC	5		43rd Ave. Storm Drain Proj.	257	0	0	0	0	257
Phoenix/UMC	5		Baseline Road Storm Drain	2,400	2,400	0	0	0	4,800
Scottsdale	2	C120	PVSP	0	300	0	1,000	2,100	3,400
Scottsdale	2		Cactus Rd. Neighborhood	0	0	0	0	0	0
Scottsdale	2		East PVSP Drainage Improvement (Scottsdale Rd Corridor)	0	300	0	1,000	2,100	3,400
UMC/Mesa/Gilbert	1	C121	EAST MARICOPA FLOODWAY	2,219	500	6,100	4,600	6,000	19,419
UMC/Mesa/Gilbert	1		EMF Mitigation - Basins	2,219	500	4,600	4,600	6,000	17,919
UMC/Mesa/Gilbert	1		EMF Channel Improvements	0	0	1,500	0	0	1,500
Phoenix	5	C124	PHOENIX RIO SALADO	7,844	5,250	0	0	0	13,094
Phoenix	5		Phoenix Rio Salado	7,844	5,250	0	0	0	13,094
Buckeye/UMC	4,5	C211	BUCKEYE/SUN VALLEY ADMP	0	0	1,400	975	240	2,615
Buckeye/UMC	4,5		Buckeye/Sun Valley ADMP	0	0	1,400	975	240	2,615
Wickenburg	4	C343	WICKENBURG "Q" WASH	30	0	0	0	0	30
Wickenburg	4		Wickenburg Wash "Q"	30	0	0	0	0	30
UMC	4	C344	WITTMANN ADMP UPDATE	0	400	650	740	0	1,790
UMC	4		Wittmann ADMP Update	0	400	650	740	0	1,790
Glendale	4	C362	SKUNK CREEK	0	0	0	0	0	0
Glendale	4		75th Ave. - 51st Ave.	0	0	0	0	0	0
UMC	3	C371	UPPER NEW RIVER (BLM) LAND ACQUISITION)	6	0	0	0	0	6
UMC	3		Upper New River (BLM) Land Acquisition	6	0	0	0	0	6

**Flood Control District of Maricopa County
CIP Budget/Schedule FY 00-05**

July 1, 2000			Five Year CIP (x\$1000)					5-Yr TOTAL	
CITY	DIST.	ACT #	DESCRIPTION	FY 00/01	FY 01/02	FY 02/03	FY 03/04		FY 04/05
			Tax Rate:	0.2534					
Multiple	4	C400	SKUNK CREEK/NEW RIVER	20	450	1,550	2,300	0	4,320
Peoria	4		New River Bank (Paradise Shores)	0	300	0	0	0	300
Glendale/Peoria	4		83rd Ave. GCS/Bell Park	0	150	1,350	0	0	1,500
Peoria	4		New River (Grand - Skunk Creek)	0	0	200	2,300	0	2,500
Phoenix/Glendale	4		Camelback Ranch Levee	20	0	0	0	0	20
Mesa/UMC	2	C420	SPOOK HILL ADMP	1,117	0	0	800	5,000	6,917
Mesa/UMC	2		Spook Hill ADMP	1,117	0	0	800	5,000	6,917
Mesa/UMC	2	C422	LOWER SPOOK HILL ADMP	0	120	200	230	0	550
Mesa/UMC	2		Lower Spook Hill ADMP	0	120	200	230	0	550
Mesa/UMC	1,2	C423	SIGNAL BUTTE ADMP	0	0	100	400	0	500
Mesa/UMC	1,2		Signal Butte ADMP	0	0	100	400	0	500
Multiple	1,2	C442	EAST MESA ADMP	6,086	10,210	5,840	2,600	0	24,736
Mesa/U.M.C.	1,2		Five Basins Along CAP	1,993	0	0	0	0	1,993
Mesa/U.M.C.	2		Hawes Road Channel	0	0	0	0	0	0
Mesa/U.M.C.	1		Elliot Basin and Channel	2,392	5,800	0	400	0	8,592
Mesa/U.M.C.	1		Elliot Channel (Ellworth to EMF)	495	2,250	4,100	2,200	0	9,045
Mesa/U.M.C.	1		Ellsworth Channel	160	2,160	1,740	0	0	4,060
Mesa	2		Southern Avenue Channel	1,046	0	0	0	0	1,046
Multiple	4	C450	GLENDALE/PEORIA ADMP	6,398	0	1,420	0	0	7,818
Multiple	4		Glendale/Peoria ADMS Update	769	0	0	0	0	769
Peoria/Glendale	4		Northern / Orangewood Storm Drain	3,734	0	0	0	0	3,734
	4		Rose Garden Basin	803					803
Peoria	4		91st Ave. / Union Hills Dr. D.I..	1,012	0	0	0	0	1,012
Glendale	4		67th Ave. Storm Drain	80	0	1,420	0	0	1,500
Peoria/UMC	4	C452	NORTH PEORIA ADMP	932	0	0	0	0	932
Peoria/UMC	4		North Peoria ADMP	932	0	0	0	0	932

**Flood Control District of Maricopa County
CIP Budget/Schedule FY 00-05**

July 1, 2000			Five Year CIP (x\$1000)					5-Yr TOTAL	
CITY	DIST.	ACT #	DESCRIPTION	FY 00/01	FY 01/02	FY 02/03	FY 03/04		FY 04/05
			Tax Rate:	0.2534					
Phoenix	3	C460	EAST FORK CAVE CREEK WASH ADMP	2,250	0	0	0	0	2,250
Phoenix	3		Greenway Parkway Channel	2,250	0	0	0	0	2,250
Phoenix	3		Upper East Fork/Cave Creek	0	0	0	0	0	0
Multiple	4,5	C470	WHITE TANKS ADMP	2,738	5,222	7,000	3,000	6,000	23,960
UMC	4		White Tanks #3 FRS Modification	1,808	5,122	5,100	0	0	12,030
Buckeye/UMC	4		Loop 303 Corridor/White Tanks ADMP Update	930	0	0	3,000	6,000	9,930
Surprise	4		Reems Rd Channel	0	100	1,900	0	0	2,000
Surprise	4		Waddell Rd Channel	0	0	0	0	0	0
El Mirage	5		El Mirage Drainage Improvement Project	0	0	0	0	0	0
Goodyear	4		Bullard Wash-Gila River-L.Buckeye-SPRR	0	0	0	0	0	0
Litchfield Pk.	4		Litchfield Park Drainage	0	0	0	0	0	0
Queen Creek	1	C480	QUEEN CREEK ADMP	1,522	1,280	460	1,200	3,000	7,462
Queen Creek	1		Queen Creek Channelization	1,420	1,000	0	0	0	2,420
Queen Creek	1		Rittenhouse Rd. Channel Project	102	0	0	0	0	102
Queen Creek	1		Sanokai Wash Channelization	0	280	460	1,200	3,000	4,940
Chandler/GRIC	1,5	C490	GILBERT/CHANDLER ADMP	6,356	0	0	0	0	6,356
Chandler/GRIC	1,5		Basin/Outlet Connector	0	0	0	0	0	0
Chandler/GRIC	1		Collector Channel	6,356	0	0	0	0	6,356
Multiple	1,2	C491	HIGLEY ADMP	365	300	1,000	5,000	4,000	10,665
Gilbert	2		Greenfield/Warner Park Basin	165	0	0	0	0	165
Mesa/Gilbert/UMC	1		Higley Outfall Channel	200	300	1,000	5,000	4,000	10,500
Gilbert/Mesa	1,2	C492	GILBERT/MESA ADMP	0	0	0	0	600	600
Gilbert/Mesa	1,2		Gilbert/Mesa ADMP	0	0	0	0	600	600
Multiple	3,4	C520	ADOBE DAM ADMP	300	300	200	0	0	800
Phoenix/UMC	3,4		Adobe Dam ADMP	300	300	200	0	0	800

**Flood Control District of Maricopa County
CIP Budget/Schedule FY 00-05**

July 1, 2000			Five Year CIP (x\$1000)					5-Yr TOTAL	
CITY	DIST.	ACT #	DESCRIPTION	FY 00/01	FY 01/02	FY 02/03	FY 03/04		FY 04/05
			Tax Rate:	0.2534					
Multiple	5	C565	DURANGO ADMP	715	1,000	3,200	2,800	3,200	10,915
Toll/Phx/Avon/UMC	5		Durango ADMP	615	0	200	2,800	3,200	6,815
Tolleson	5		Durango Regional Outfall	100	1,000	3,000	0	0	4,100
Multiple	2,3	C580	ACDC ADMP	3,845	8,750	0	0	0	12,595
P.V.	2		Doubletree Ranch Rd System	3,840	8,750	0	0	0	12,590
Phoenix	2,3		Tatum Wash Drainage Improvement	5	0	0	0	0	5
Multiple	4,5	C620	MARYVALE ADMP	1,640	6,237	5,500	2,250	2,500	18,127
Phoenix	5		Stadium Basin West Inlet Channel	314	0	0	0	0	314
Glendale/Phoenix	4,5		Bethany Home Outfall Channel	1,326	6,237	5,500	2,250	2,500	17,813
Phoenix	3	C625	METRO ADMP	0	0	1,200	4,300	1,500	7,000
Phoenix	3		24th Ave./Camelback Basin	0	0	1,200	4,300	1,500	7,000
Phoenix	1	C630	FOOTHILLS ADMP	4,177	0	0	0	0	4,177
Phoenix	1		SE Phoenix Regional Drainage System	4,177	0	0	0	0	4,177
Fountain Hills	2	C670	FOUNTAIN HILLS ADMP	958	0	700	0	0	1,658
Fountain Hills	2		Golden Eagle Park Dam	958	0	0	0	0	958
Fountain Hills	2		Ashbrook / Balboa Wash Improvements	0	0	700	0	0	700
Scottsdale	2	C680	UIBW ADMP	0	7,200	10,300	12,000	8,000	37,500
Scottsdale	2		Reata Pass Channel	0	7,200	8,800	0	0	16,000
Scottsdale	2		Pima Road Channel (w/ Pima Fwy./TPC)	0	0	1,500	12,000	0	13,500
Scottsdale	2		Rawhide Wash Detention Basin	0	0	0	0	8,000	8,000
SUBTOTAL PROJECTS				62,896	54,119	52,330	52,805	51,965	274,115
CIP PROJECT CONTINGENCY				2,584	1,500	2,800	2,800	2,800	12,484
INDIRECT CHARGES				906	933	961	990	1,020	4,810
FORCE				2,450	2,510	2,572	2,637	2,703	12,872
PROJECTS TOTAL				68,836	59,062	58,663	59,232	58,488	304,281

Reimbursements

CITY	DIST.	ACT #	SUMMARY REIMBURSEMENTS DESCRIPTION	X \$ 1,000					
				Five Year CIP					
				FY 00/01	FY 01/02	FY 02/03	FY 03/04	FY 04/05	5-Yr TOTAL
Chandler	1	C022	Central Chandler Area Drainage System	0	0	0	0	0	0
Scottsdale	2	C027	City of Scottsdale	1,824	1,965	0	0	0	3,789
Phoenix	1,2,3	C103	Old Cross Cut Canal	0	0	0	0	0	0
Phoenix	5	C117	43rd Ave Storm/Baseline Drain and Basin (MCDOT)	57	350	150	2,950	4,050	7,557
Scottsdale	2	C120	PVSP	0	150	0	500	1,050	1,700
Phoenix	5	C124	Rio Salado	225	2,500	0	0	0	2,725
Glen/Peoria	4	C362	Skunk Creek (Glendale)	768	576	577	1,151	0	3,072
Multiple	4	C400	Skunk Creek/New River (Glendale/Peoria)	0	0	850	1,150	0	2,000
		C422	Lower Spook Hill ADMP	0	0	0	0	0	0
Mesa	1	C442	East Mesa ADMP (Mesa/MCDOT)	2,253	3,030	2,500	850	0	8,633
Peoria	4	C450	Glendale/Peoria ADMP	3,756	2,436	0	0	0	6,192
	4	C452	North Peoria ADMP	150	0	0	0	0	150
County	4	C470	White Tanks ADMP (Goodyear/MCDOT)	1,366	0	0	0	0	1,366
Queen Creek	2	C480	Queen Creek (Queen Creek)	0	140	230	600	1,500	2,470
Chandler	2	C490	Gilbert/Chandler ADMP (Chandler/ADOT/GRIC)	6,100	0	0	0	0	6,100
Multiple	2	C491	Higley ADMP	0	546	154	2,500	2,000	5,200
		C492	Gilbert/Mesa ADMP	0	0	0	0	0	0
	3,4	C520	Adobe Dam ADMP	0	0	0	0	0	0
Toll/Avon/Phx	4,5	C565	Durango ADMP	0	550	1,600	1,400	1,600	5,150
Par. Valley	2	C580	Double Tree Ranch Rd Drain (Paradise Valley)	2,415	2,335	0	0	0	4,750
Glendale	4	C620	Bethany Home Channel (Glendale/Phoenix)	210	3,000	2,000	75	1,250	6,535
Phoenix	5	C625	Metro ADMS	0	0	0	0	0	0
Phoenix	1	C630	Foothills ADMP (Phoenix)	1,496	0	0	0	0	1,496
Ftn. Hills	2	C670	Fountain Hills ADMP (Fountain Hills)	268	0	0	0	0	268
Phnx/Scotts	2	C680	Upper Indian Bend Wash (Phnx/Scotts/ASLD)	0	0	0	0	0	0
REIMBURSEMENTS TOTAL				20,888	17,578	8,061	11,176	11,450	69,153



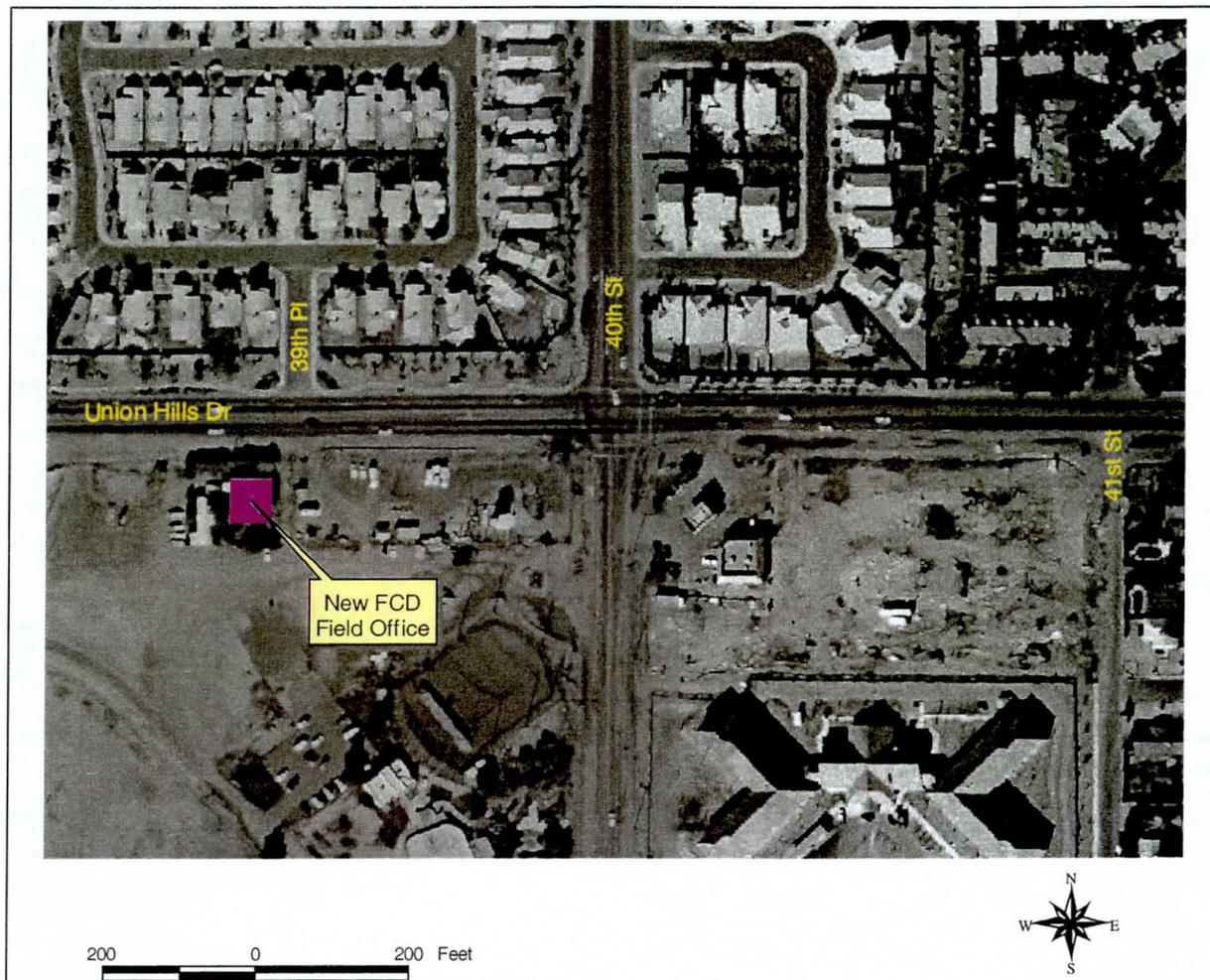
Union Hills Drive Field Office

P.M: Stuart Dalbey

(602)506-4699

swd@mail.maricopa.gov

The project consists of designing and constructing a 1,000 square foot field office at a cost not to exceed \$150,000. The design will include the flexibility to expand the facility to approximately 7,500 square feet should the need arise. The project will include the office building and secured parking for District vehicles used by the District Drainage Inspection staff. The intent of the project is to provide office space for members of the drainage inspection staff closer to their work location. This will reduce work time lost to travel, increase the amount of inspections possible with existing staff and also contribute to a reduction in pollution caused by the travel reduction. The office will include the capacity for a limited number of additional staff to use the office on an as needed basis for work in the north Phoenix and/or North Scottsdale area.



Supervisor District: 2
Township/Range: T4N R3E Section 36

PCN: 001.03.31



Central Chandler Area Drainage System

P.M.: Paul Stears, P.E.

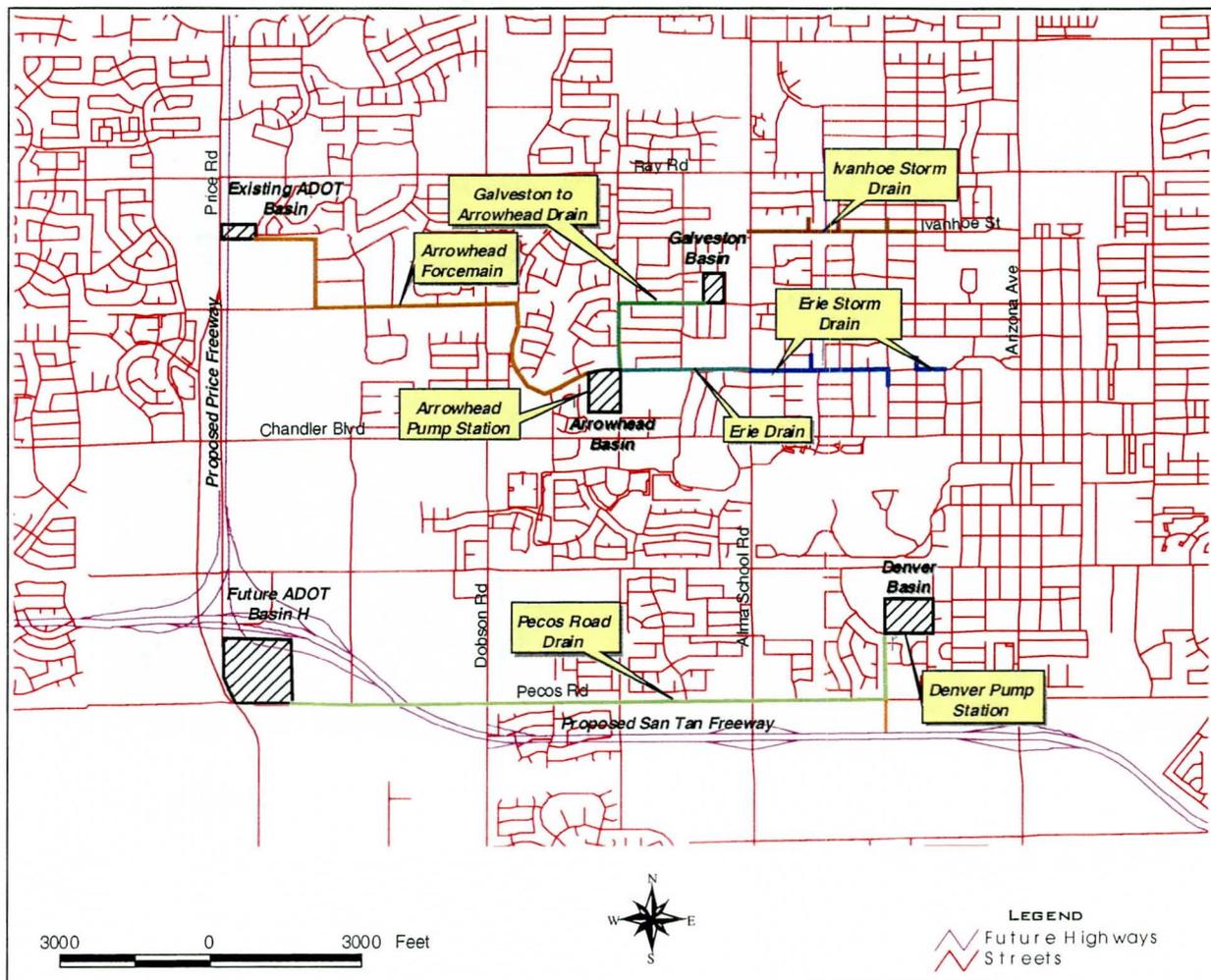
(602)506-4768

pjs@mail.maricopa.gov

The City of Chandler's central area was developed prior to the implementation of required drainage standards. The City of Chandler previously developed and implemented a storm water master plan for the central area. The City updated the plan and has requested that the District cooperate and cost share the modification and enhancement of the existing facilities to provide a 100-year level of protection and a regional outfall for the system.

The City is the lead agency for design, rights of way acquisition, utility relocation, construction, construction management, and operation and maintenance of the system. The District's role is to participate in the consultant selection process, pre-construction meetings, provide technical assistance, and review the design and construction phases for the Project.

Five improvements have been identified that would help the City accomplish its goal of alleviating the flooding problems in the Chandler's central area. Total project cost is estimated at approximately \$ 12.2 million with the District's contribution of \$ 6.1 million.



Supervisor District: 1
 Municipality: Chandler
 Township/Range: T1S, R5E, Sections, 28-33; T2S, R5E, Sections 4-6

PCN: 022.01.31



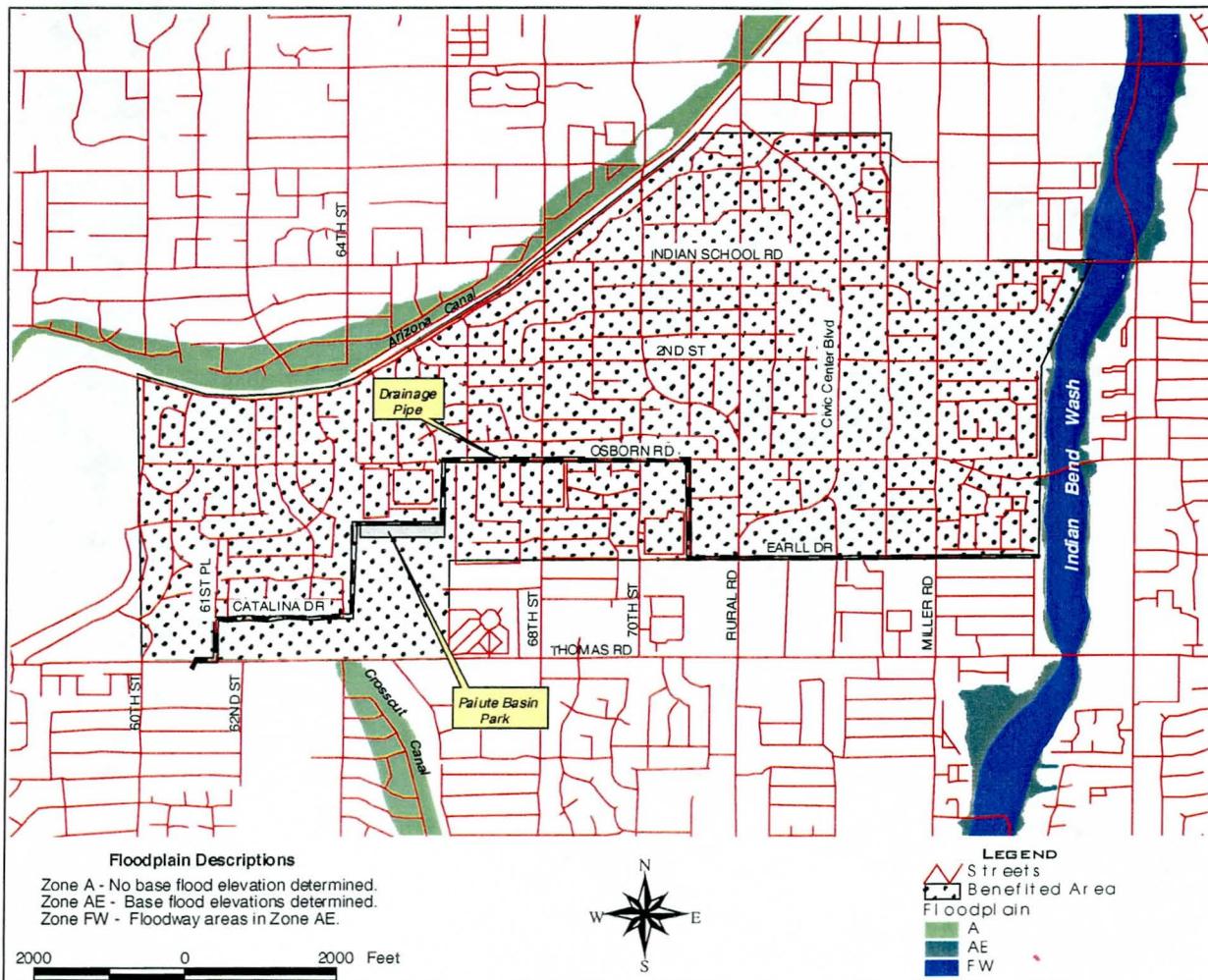
Osborn Road Storm Drain System

P.M: Don Rerick, P.E.

(602)506-4878

djr@mail.maricopa.gov

This project consists of approximately 2.5 miles of storm drain beginning at 60th Street and Thomas proceeding north along 61st Place, east along Catalina Drive, north along 64th Street, east into Paiute Park Basin, north out of the Basin up to Osborn Road, south along 71st Street and east along Earll Drive into the Indian Bend Wash. The outfall will provide a storm drain with 10-year level of protection for contributing areas and will reduce drainage problems. Basins at Marriott's Brighton Gardens and Paiute Park, which will reduce the required pipe sizes for the downstream storm drain, will augment the storm drain. The estimated cost of the storm drain system is \$8 million. The District along with the Cities of Phoenix and Scottsdale are cost-sharing the project. The District is responsible for the design, construction, and construction management of the project. The City of Scottsdale will be responsible for operation and maintenance of the project after completion. Construction began in August, 2000.



Supervisor District: 2
 Municipality: Scottsdale
 Township/Range: T2N R4E 26, 27, and 28

PCN: 027.04.30



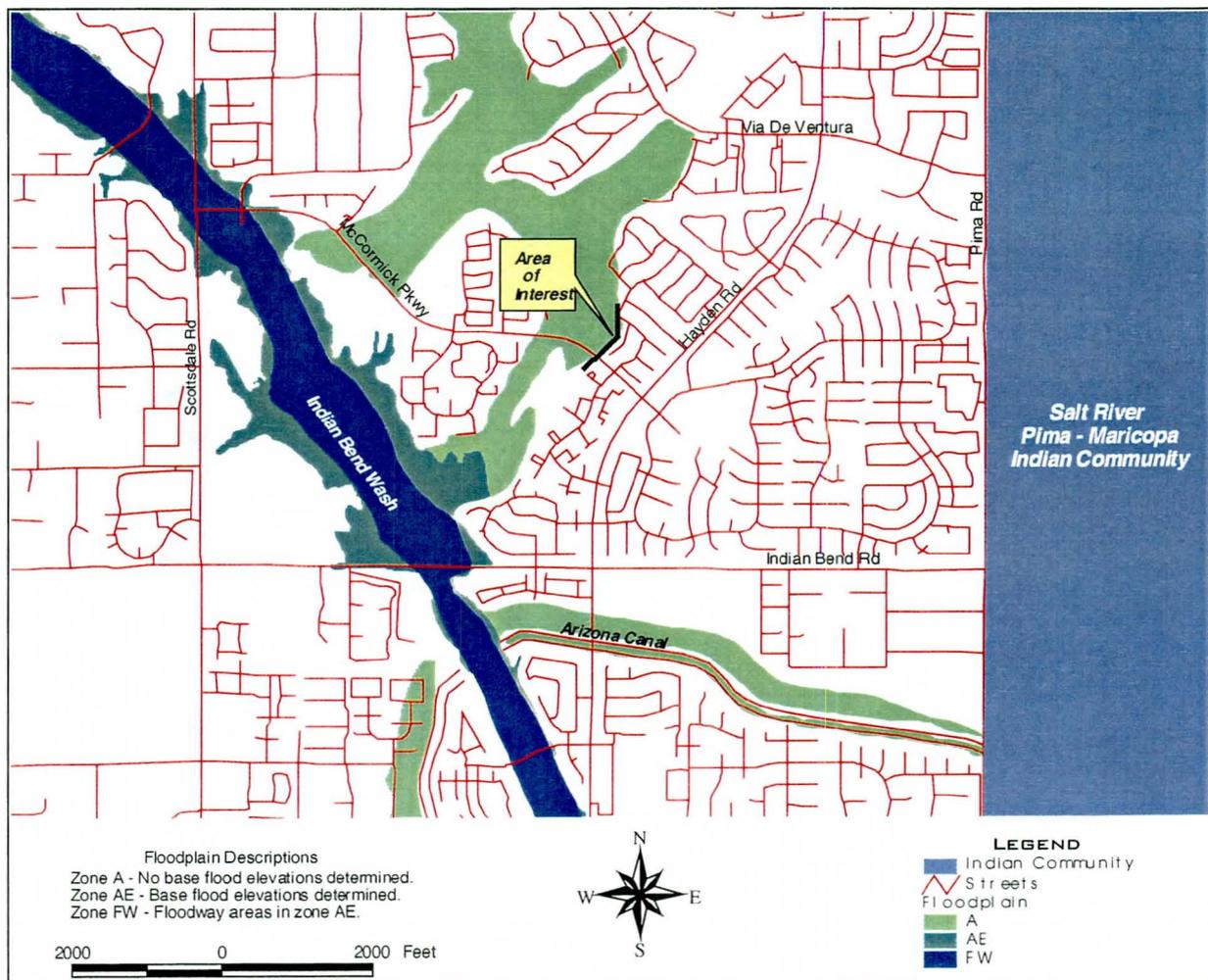
McCormick Ranch Flood Protection

P.M: John Rodriguez, P.E.

(602)506-8782

jer@mail.maricopa.gov

The goal of the project is to eliminate a floodplain breakout condition that was recently identified while delineating the floodplain/floodway boundaries for the McCormick Ranch Lakes, which are a major tributary to the Indian Bend Wash at Indian Bend Road. The breakout occurs along the east bank immediately upstream of the McCormick Parkway and would be contained by a floodwall, levee, or other appropriate flood control measure. At this location, the 100-year discharge of 9,280 cfs traverses an existing neighborhood prior to inundating the intersection of McCormick Parkway and Hayden Road. Land uses in the affected area are mostly a mix of commercial and residential uses, and the area has been built out for approximately 20 years. The total estimated cost of the project is \$400,000, of which Scottsdale will contribute 50%. The City will be the lead agency responsible for design, construction, and operation and maintenance. The District will review the plans and specifications and provide technical assistance and project funding.



Supervisor District: 2
 Municipality: Scottsdale
 Township/Range: T2N, R4E, S1,2

PCN: 027.xx.xx



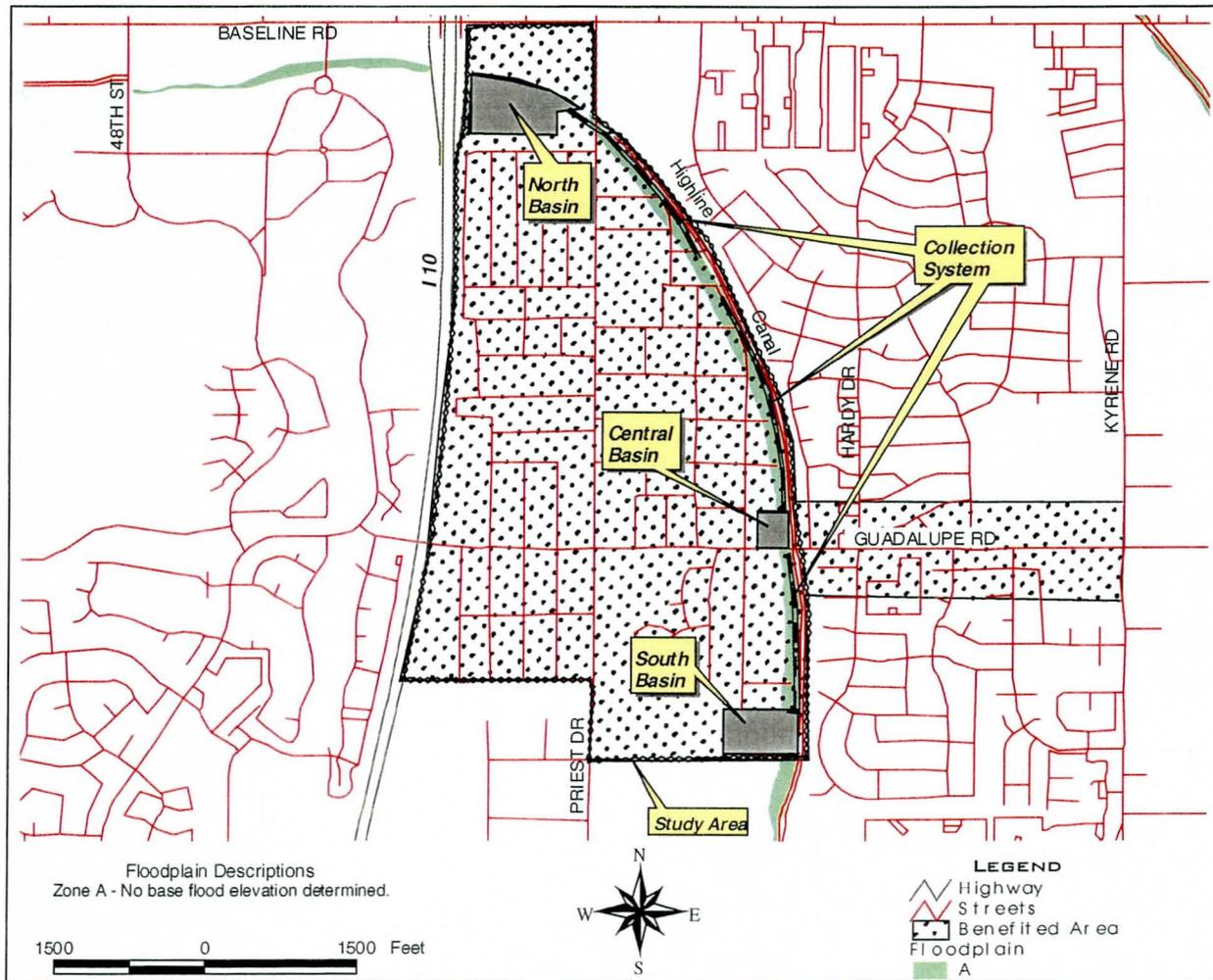
Town of Guadalupe

P.M: Don Rerick, P.E.

(602)506-4878

djr@mail.maricopa.gov

The project will provide a storm water collection system, three retention basins located along the Highline Canal and an outfall system for runoff originating within the Town of Guadalupe. Runoff from within the Town results in flooding of low-lying houses and collects along the Highline Canal. There is an existing "Zone A" floodplain designated by the Federal Emergency Management Agency (FEMA) along the west side of the Highline Canal. There are approximately 90 properties currently within that floodplain that will receive flood protection after the completion of the project. The ponded water results in flooding of adjacent homes and causes damage to the canal and to downstream properties within Tempe. The project costs for design, right-of-way acquisition and construction of the project are estimated to be \$7.8 million. Land acquisition has been completed. The Town is not able to contribute financially to the project but will assume maintenance responsibilities for the conveyance system and the basins. Additionally, the Town will seek grants and other means to participate in the construction of street drainage improvements.



Supervisor District: 5
Municipality: Guadalupe
Township/Range: T1S R4E S4, SEC 9

PCN: 035.02.31



Structures Assessment Program

P.M: Tom Renckly, P.E.

(602)506-8610

trr@mail.maricopa.gov

The Flood Control District of Maricopa County (District) owns, operates and maintains 22 Flood Control Dams and is mandated by state and federal law to assure the safety of these structures. The District has initiated a program called the Structures Assessment Program to assess and evaluate these structures and related features due to an ever-increasing urbanized environment and to assure continued compliance with current standards and guidelines. The Structures Assessment Program is intended to address issues related to urbanization and dam safety as well as to enhance and improve the District's ongoing Dam Safety Program.

The Structures Assessment Program will be conducted in three phases. Phase I Assessments primarily involve collection and review of records, field inspections of dams, subsidence surveys, risk assessments and the development of planning level recommendations for future actions to be considered for each dam or group of dams. Structural and non-structural solutions are to be evaluated with emphasis on project partnering and multi-use opportunities for District facilities.

Phase I Assessments for seven District Dams are currently being performed under District contract FCD 98-41. In June 2000, the District awarded a second on-call contract to conduct Phase I Assessments for an additional seven to ten District Dams. A third contract scheduled to be awarded in FY 2001/2002 will complete the Phase I Assessments of District Dams.

Phase II will primarily involve development of detailed alternatives and pre-design work to develop structural and non-structural solution to address issues related to urbanization and dam safety. It is currently anticipated this work will be performed under consultant contracts upon completion of Phase I Assessments.

Phase II will also involve geotechnical field investigations, analysis and development of site specific corrective actions as needed to address potential dam safety issues identified in Phase I. An on-call contract to perform this work has been advertised (June 2000). Site specific work assignments will be scoped and negotiated under this contract.

Phase III will primarily involve the implementation of authorized dam safety modifications and projects designed to mitigate or eliminate issues related to impoundment areas, spillway discharges and urbanization.

Supervisor District: All
Municipality: Multiple
Township/Range: Multiple

PCN: 050.xx.xx

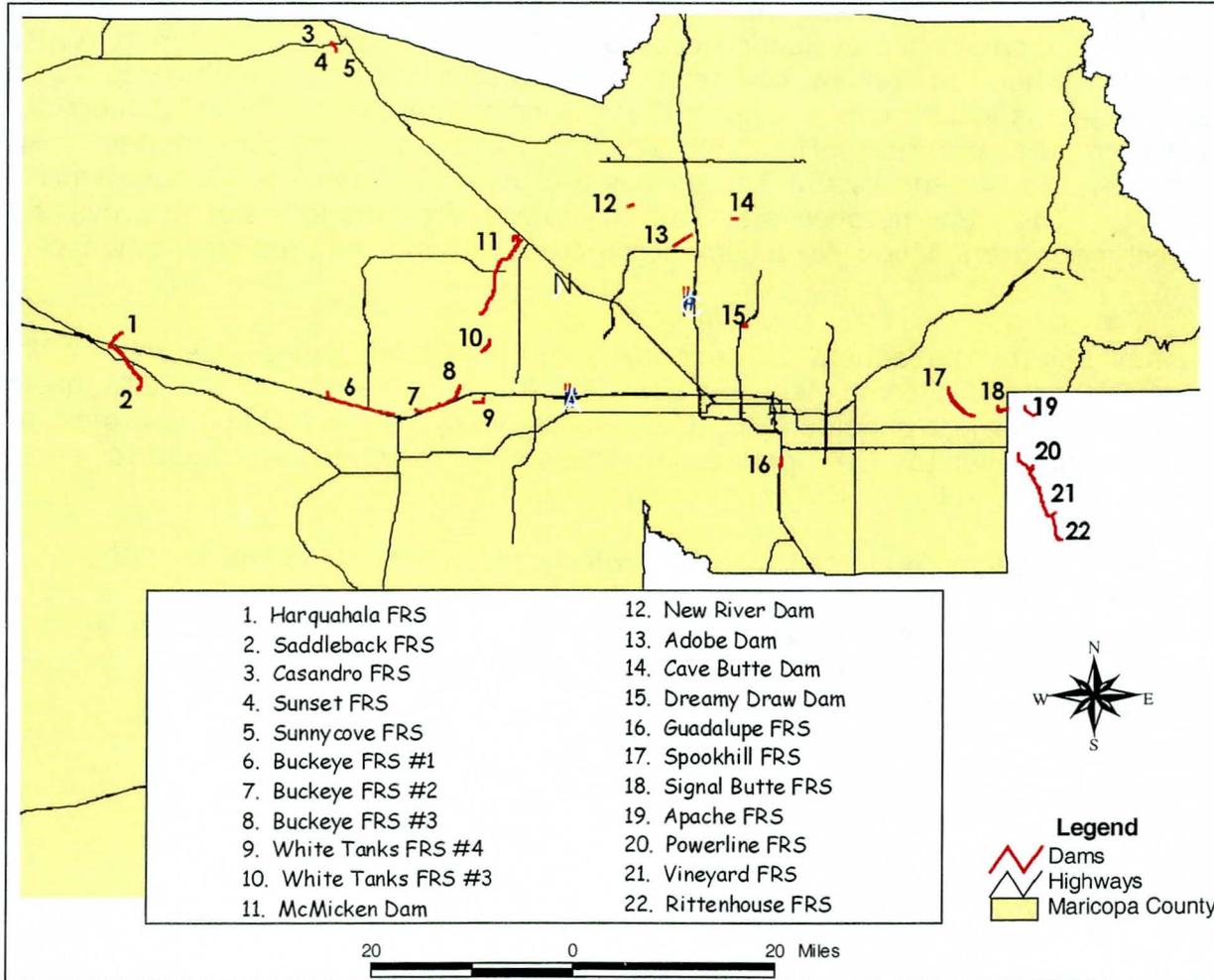


Structures Assessment Program

P.M: Tom Renckly, P.E.

(602)506-8610

trr@mail.maricopa.gov



Supervisor District: All
 Municipality: Multiple
 Township/Range: Multiple

PCN: 050.xx.xx



Candidate Assessment Reports

P.M: Russ Miracle, P.E.

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rum@mail.maricopa.gov

Annually, Cities and Towns within Maricopa County submit requests to the District for inclusion of proposed projects into the District's Capitol Improvement Program (CIP). The District has developed a process that includes evaluation and ranking of the candidate projects based upon specific evaluation criteria. A Candidate Assessment Report (CAR) is recommended when the review committee feels that the material submitted for the proposed project is insufficient to support the ranking or there is insufficient project detail to implement the project. The CAR studies are used to document the project requirements, benefits and costs. The studies are generally limited to an assessment of existing data. The study purpose is to confirm or expand on the information provided for the project prioritization and to document the requirements for implementation of the project.

Upon completion of the annual CIP prioritization, the list of projects submitted which require a CAR study is completed and the CAR studies initiated. If the CAR findings indicate that the project benefits or cost are substantially different that the project data originally submitted for the CIP prioritization, the project may be resubmitted for another evaluation and ranking by the CIP review committee.

CAR studies are being conducted for two projects identified during the FY 2000-01 CIP Prioritization process, the Camelback Corridor Side Channel Improvements, and the 24th Avenue/Camelback Detention Basin. Additional projects for which CAR studies are to be completed during FY 2000 will be identified by January 2001 with completion of the FY 2001-02 CIP Prioritization process

Supervisor District: All
Municipality: Multiple
Township/Range: Multiple

PCN: 051.xx.xx



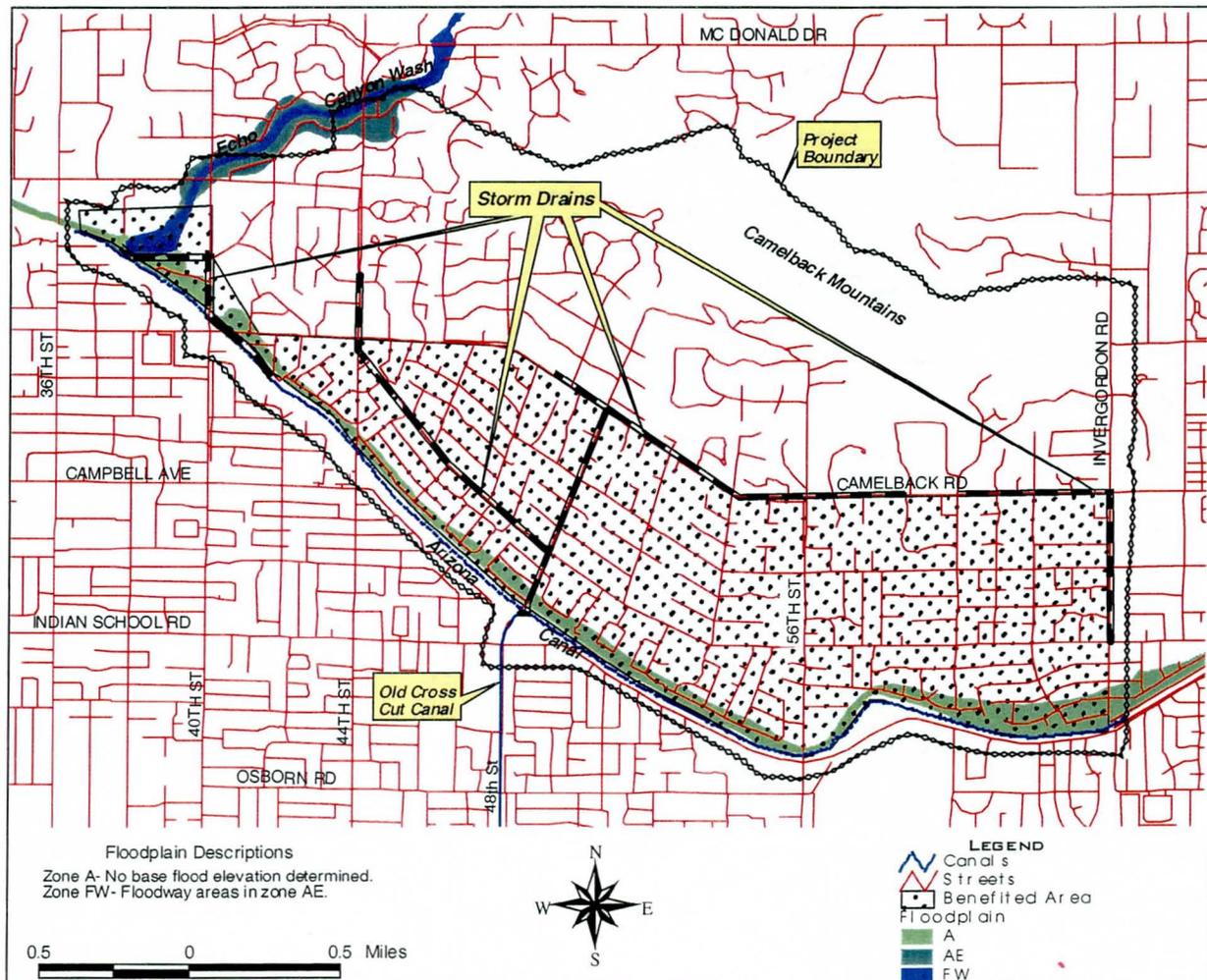
Arcadia Area Drainage Project

P.M: Don Rerick, P.E.

(602)506-4878

djr@mail.maricopa.gov

The project will include design and construction of three storm drain systems, which will intercept and convey up to 1,000 cfs through a highly developed residential area between 40th and 64th Streets, north of the Arizona Canal and provide a ten-year level of protection. The project will provide drainage outfalls for a four square mile area, utilizing the improved Old Cross Cut Canal, the ACDC and Indian Bend Wash. The project is a component of the Old Cross Cut Canal master plan. The study phase was completed in April 1997 at a cost of \$325,000 funded by the District. The cost for construction of the recommended Alternative Number 2 is estimated at \$12 million, with the costs expected to be shared equally between the District and the City of Phoenix in accordance with an IGA to be developed in the future. The design IGA FCD-97016 for the Alternative Number 2 was approved in April 1998. The City will provide the operation and maintenance for the project. Present funding for design is in FY 2004/2005.



Supervisor District: 2,3
 Municipality: Phoenix
 Township/Range: T2N R4E S19-21

PCN: 103.02.30



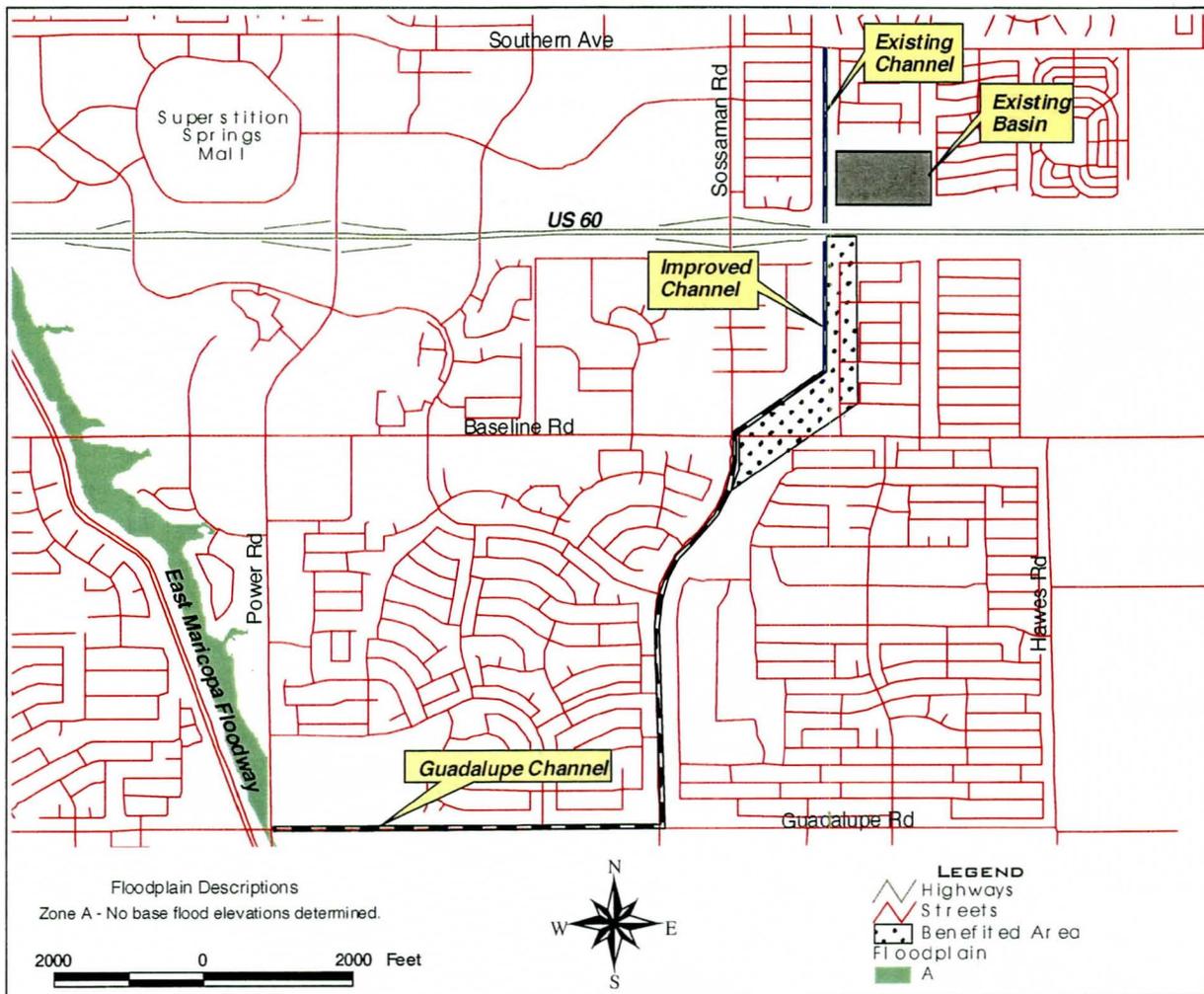
Sossaman Channel

P.M: Dennis Holcomb
Paul Stears, P.E.

(602)506-4074
(602)506-4768

dbh@mail.maricopa.gov
pjs@mail.maricopa.gov

The channel is located in east Mesa between Sossaman Road and Hawes Road and the Superstition Freeway (U.S. 60) to Baseline Road. The channel construction was completed in January 1999. The previous channel section did not have sufficient capacity to convey the 100-year peak discharge. The project improved the channel from U.S. 60 to Baseline Road. This project completed the Sossaman drainage system. The portions north of the Freeway and south of Baseline Road were previously constructed by the District. The landscaping element of this project is currently being designed and will be completed by September 2000. Installation will be completed by Spring of 2001.



Supervisor District: 1
Municipality: Mesa
Township/Range: T1N R7E S32

PCN: 108.01.30



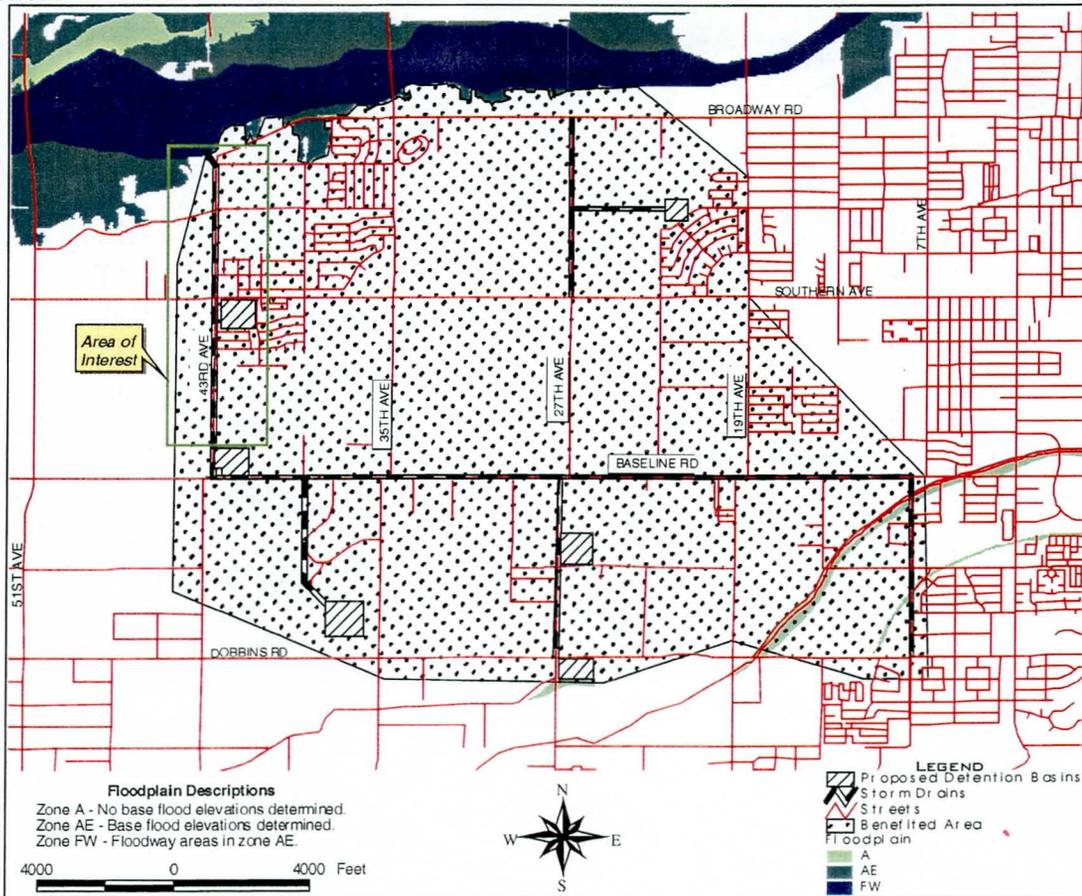
43rd Avenue Storm Drain & Basin

P.M: Scott Vogel, P.E.

(602)506-4771

csu@mail.maricopa.gov

Residents in the South Phoenix area have been flooded during relatively minor events, including those considered to be less than 10-year flood storms. The residents living in a subdivision on the southeast corner of 43rd Avenue and Southern are usually the hardest hit. An interim project was constructed at this location through the joint cooperation of the District, the City of Phoenix, and the Salt River Project. The interim project does not provide 100-year flood protection, but it does help to drain the water from the area more quickly after a flood event. The South Phoenix Drainage Improvement Project will provide protection from a 100-year flood event to residences and farmland within the City of Phoenix. In addition, the project will provide flood protection to a proposed high school and an elementary school that are currently being constructed within the project area. The project will be built in phases to maximize the potential for cost sharing with other agencies. The proposed system is composed of underground pipes, located within existing rights-of-way, and basins that will help to minimize the project's cost. It is estimated that the project will cost \$24 million to design and build. Elements of the project will be constructed in phases through a joint partnership among the District, the City of Phoenix, and the Maricopa County Department of Transportation. Design and construction management for the 43rd Ave Storm Drain will be provided by District staff and cost-shared by the District and MCDOT. The City of Phoenix will take over operation and maintenance. In addition, the District will design the detention basin at 43rd Avenue and Southern, for construction in the future. The goal is for the District to contribute approximately 50% of the project cost of the South Phoenix Drainage Improvements. Depending on funding participation, some project elements may be deleted, downsized or deferred, possibly resulting in a reduced level of protection.



Supervisor District: 1,5
 Municipality: Phoenix
 Township/Range: T1N R2E

PCN: 117.02.30



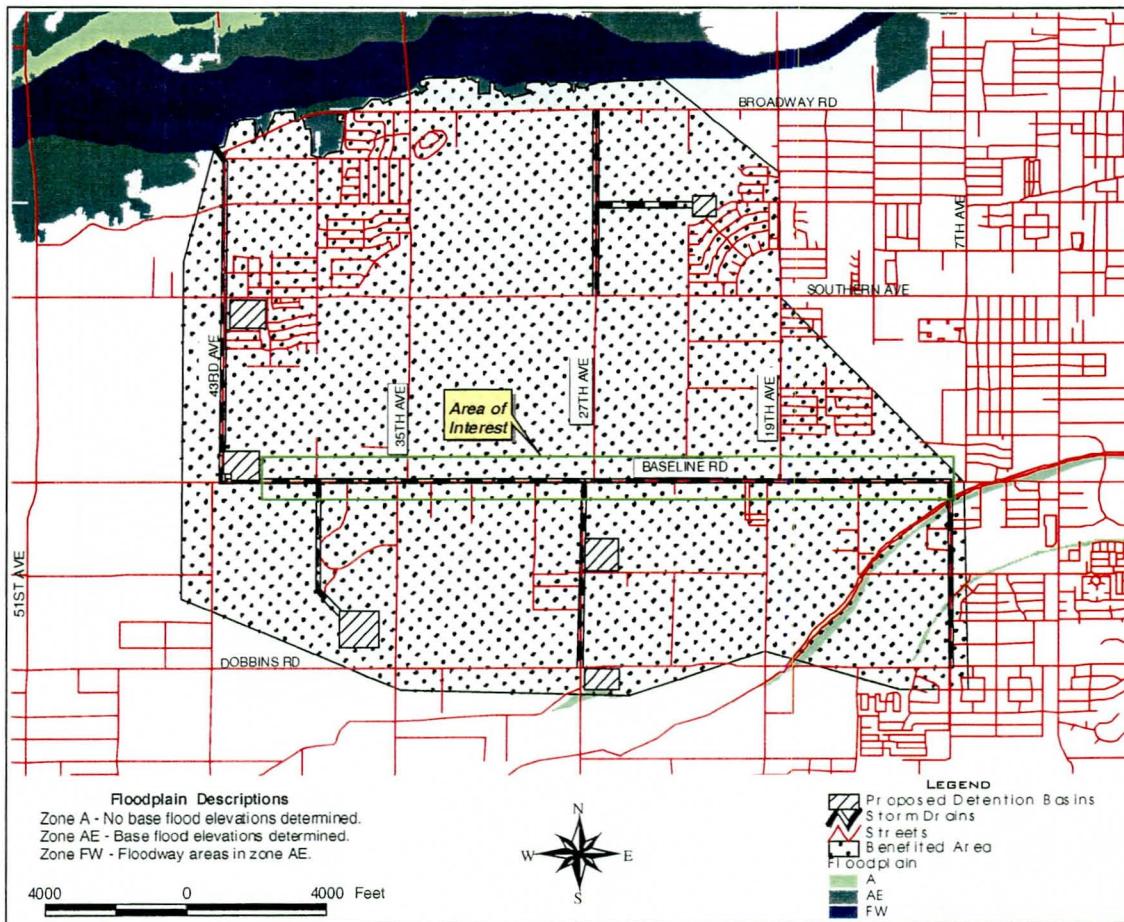
Baseline Road Storm Drain

P.M: Scott Vogel, P.E.

(601)506-4771

csu@mail.maricopa.gov

Residents in the South Phoenix area have been flooded during relatively minor events, including those considered to be less than 10-year flood storms. The South Phoenix Drainage Improvement Project will provide protection from a 100-year flood event to residences and farmland within the City of Phoenix. In addition, the project will provide flood protection to a proposed high school and an elementary school that are currently being constructed within the project area. The project will be built in phases to maximize the potential for cost sharing with other agencies. The proposed system is composed of underground pipes, located within existing rights-of-way, and basins that will help to minimize the project's cost. It is estimated that the project will cost \$24 million to design and build. Elements of the project will be constructed in phases through a joint partnership among the District, the City of Phoenix, and the Maricopa County Department of Transportation. Design and construction management for the Baseline Road Storm Drain will be provided by MCDOT and cost-shared by the District and MCDOT. The City of Phoenix will take over operation and maintenance. In addition, the District will design the detention basin at 27th Avenue and Baseline Road, for construction in the future. The goal is for the District to contribute approximately 50% of the project cost of the South Phoenix Drainage Improvements. Depending on funding participation, some project elements may be deleted, downsized or deferred, possibly resulting in a reduced level of protection.



Supervisor District: 5
 Municipality: Phoenix
 Township/Range: T1N R2E; T1N R3E

PCN: 117.03.30



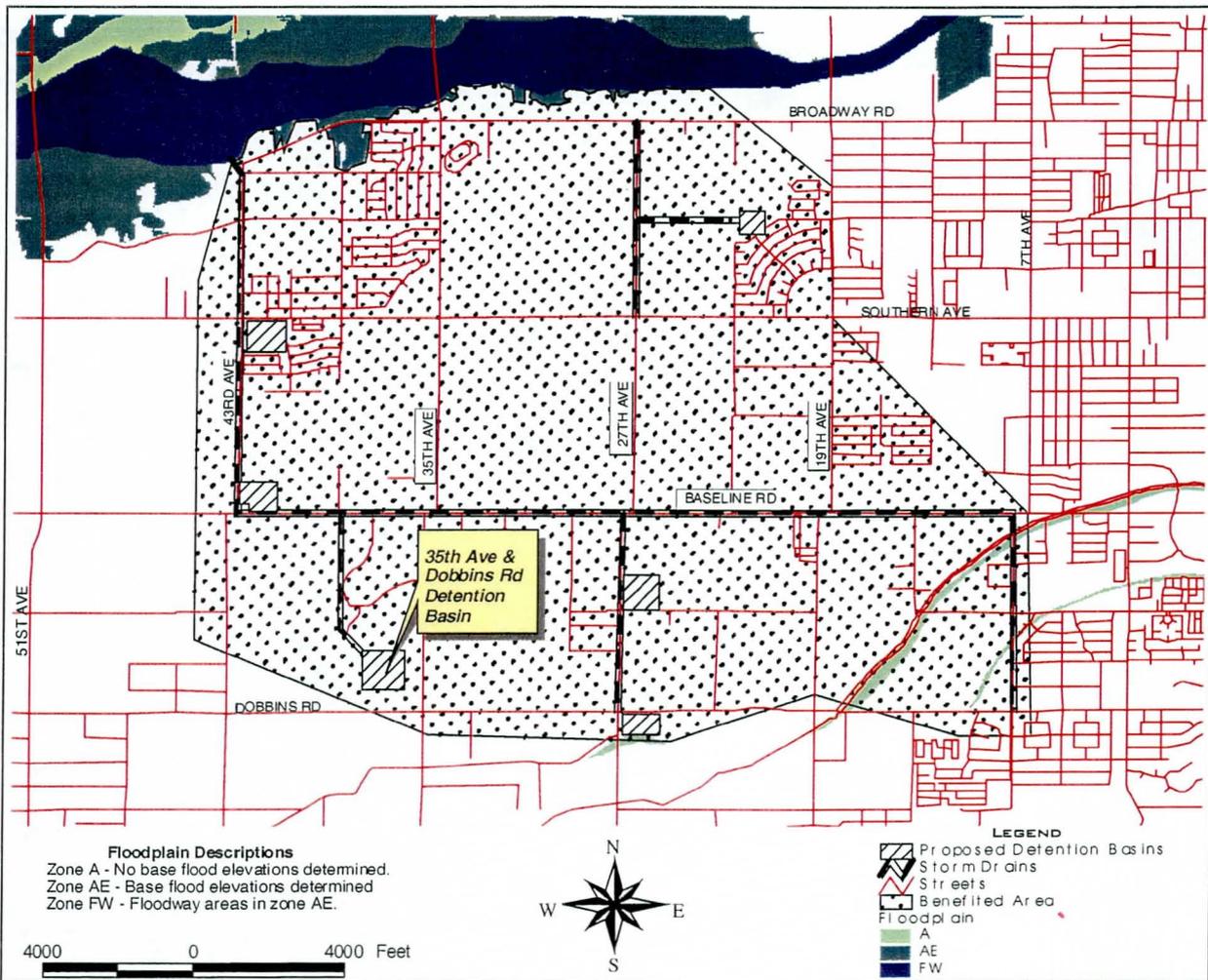
35th Ave & Dobbins Rd Detention Basin

P.M: Scott Vogel, P.E.

(602)506-4771

csv@mail.maricopa.gov

Residents in the South Phoenix area have been flooded during relatively minor events, including those considered to be less than 10-year flood storms. The South Phoenix Drainage Improvement Project will provide protection from a 100-year flood event to residences and farmland within the City of Phoenix. In addition, the project will provide flood protection to a proposed high school and an elementary school that are currently being constructed within the project area. The project will be built in phases to maximize the potential for cost sharing with other agencies. The proposed system is composed of underground pipes, located within existing rights-of-way, and basins that will help to minimize the project's cost. It is estimated that the project will cost \$24 million to design and build. Elements of the project will be constructed in phases through a joint partnership among the District, the City of Phoenix, and the Maricopa County Department of Transportation. A detention basin at 35th Avenue and Dobbins Road was constructed as part of the City of Phoenix Golf Course at Cesar Chavez Park. Resolution to the reimbursement for rights-of-way acquisition is pending. A storm drain connects the detention basin to the Baseline Road Storm Drain, along 39th Avenue.



Supervisor District: 5
 Municipality: Phoenix
 Township/Range: T1N R2E

PCN: 117.06.30



Laveen ADMP

P.M: Tim Phillips, P.E.

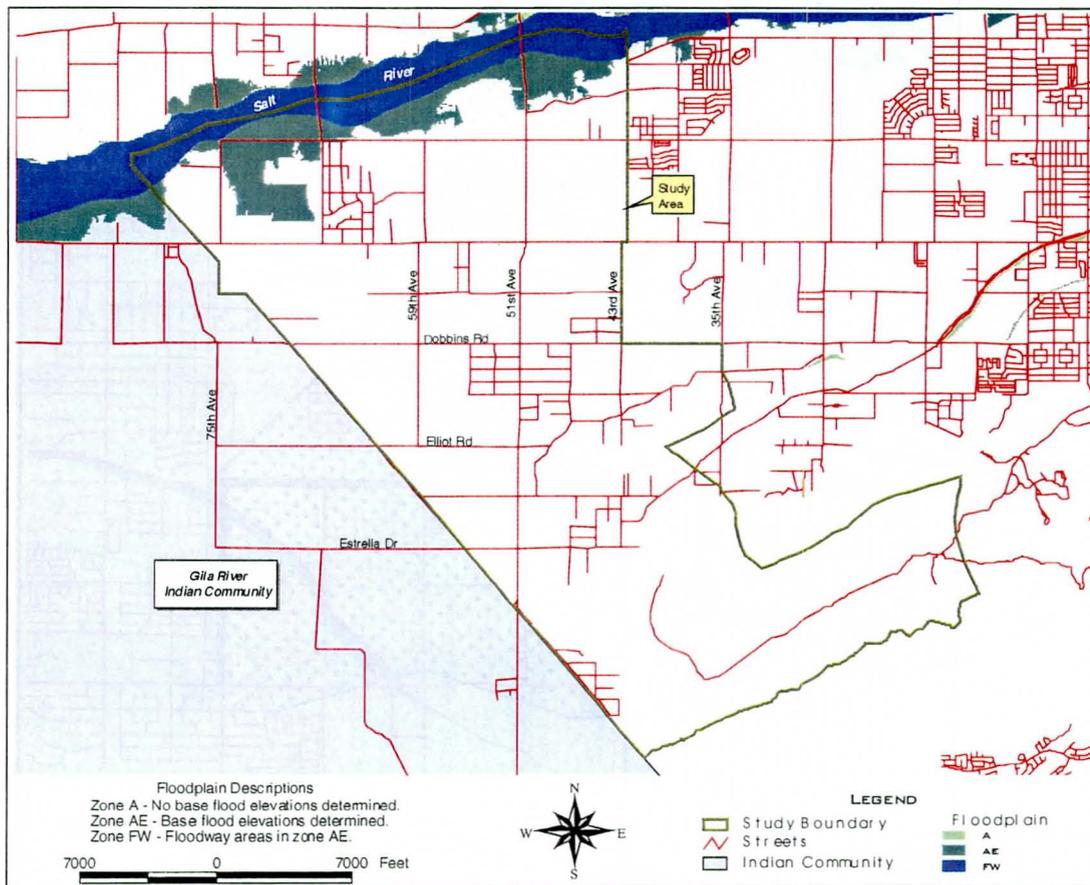
(602)506-4718

tsp@mail.maricopa.gov

The purpose of the Laveen Area Drainage Master Plan is to quantify the extent of flooding problems, to identify and evaluate alternative solutions to flooding problems, with public input, and determine a recommended plan to mitigate flooding hazards. Pending development has increased significantly within the watershed requiring the need to evaluate potential flooding and ponding particularly along the existing Maricopa Drain. The major objectives of the study are:

- 1) Develop a plan to control runoff to prevent flood damage within the watershed,
- 2) Develop a plan for a flood channel along the Maricopa Drain alignment to convey flows to the Gila River, and,
- 3) Develop a plan for flood control facilities to convey flood flows within the watershed to the Maricopa Drain

The total area is approximately 16 square miles. The planning study is budgeted for FY 00/01 at \$700,000. The total expenditures in the CIP are now tentatively estimated at \$8.1 million.



Supervisor District: 5
 Municipality: Phoenix, UMC
 Township/Range: T1S R3E, Sections 5-9; T1S R2E, Sections 1-23; T1S R1E Section 1, 12; T1N R1E Sections 35-36; T1N R2E Sections 25-29, 31-36; T1N R3E Section 31

PCN: 117.07.31



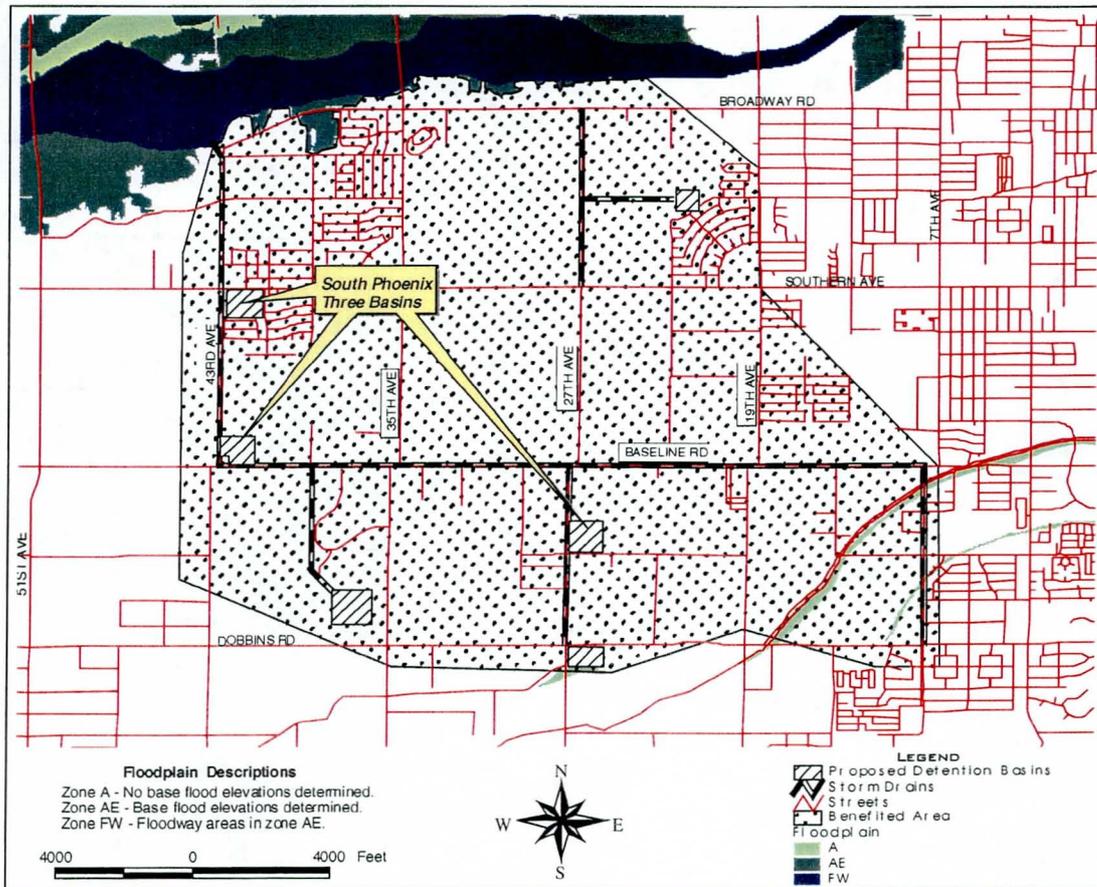
South Phoenix Three Basins

P.M: Scott Vogel, P.E.

(602)506-4771

csv@mail.maricopa.gov

Residents in the South Phoenix area have been flooded during relatively minor events, including those considered to be less than 10-year flood storms. The South Phoenix Drainage Improvement Project will provide protection from a 100-year flood event to residences and farmland within the City of Phoenix. In addition, the project will provide flood protection to a proposed high school and an elementary school that are currently being constructed within the project area. The project will be built in phases to maximize the potential for cost sharing with other agencies. The proposed system is composed of underground pipes, located within existing rights-of-way, and basins that will help to minimize the project's cost. It is estimated that the project will cost \$24 million to design and build. Elements of the project will be constructed in phases through a joint partnership among the District, the City of Phoenix, and the Maricopa County Department of Transportation. The South Phoenix Three Basins are located at 43rd Avenue and Southern Avenue, 43rd Avenue and Baseline Road, and 27th Avenue and South Mountain Avenue. The Three Basins were submitted by the City of Phoenix in the 1999 Prioritization Process, and approved by the Prioritization Committee. Proceeding with the design and construction of these basins is dependant on successful passage of the March 2001 bond election in the City of Phoenix. The goal is for the District to contribute approximately 50% of the project cost of the South Phoenix Drainage Improvements. Depending on funding participation, some project elements may be deleted, downsized or deferred, possibly resulting in a reduced level of protection.



Supervisor District: 5
 Municipality: Phoenix
 Township/Range: T1N R2E; T1N R3E

PCN: 117.xx.xx



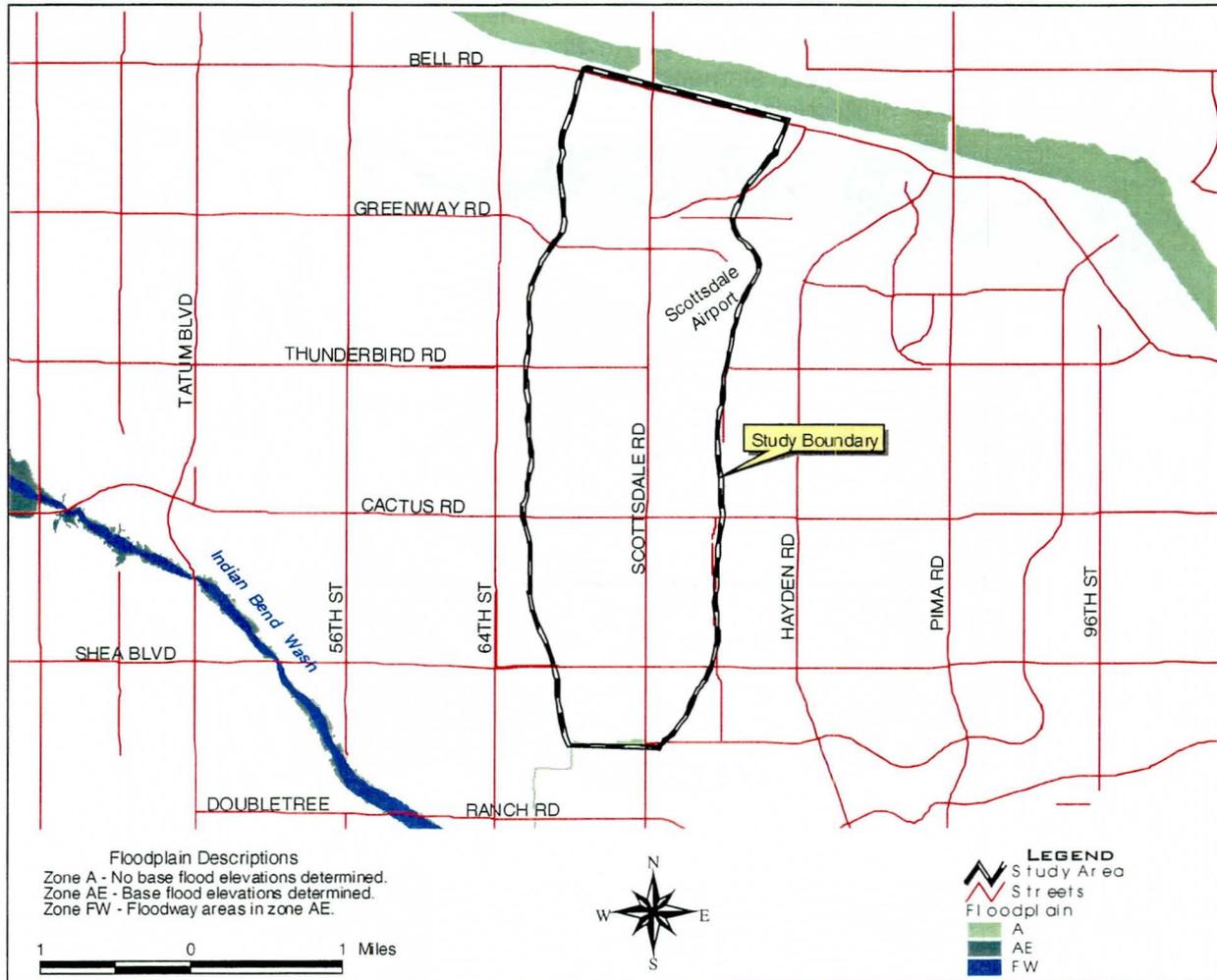
Scottsdale Road Corridor Improvement

P.M: Afshin Abouraiyan

(602)506-4519

afa@mail.maricopa.gov

The first phase of this project is to identify the drainage problems and develop cost effective solutions for a storm water collection system for the Scottsdale Road corridor area from Thunderbird Road and Mountain View Roads. Based on the preferred alternative the project will move forward into the design and construction phase. As part of the PVSP Master Plan, the Cactus Road Neighborhood Improvements were completed in FY 1997/1998. These projects serve as supplements to facilities constructed through the PVSP Master Plan. When completed, approximately 417 acres of residential and commercial development (140 acres within the City of Phoenix) will be protected. The benefited area contains approximately 300 residences and 70 commercial structures. The total project cost is estimated at \$3.3 million, with 50% funding supplied by the District. Scottsdale will be responsible for the future operation and maintenance of the facility.



Supervisor District: 2
 Municipality: Scottsdale
 Township/Range: T3N R4E S22, 23, 27

PCN: 120.02.30



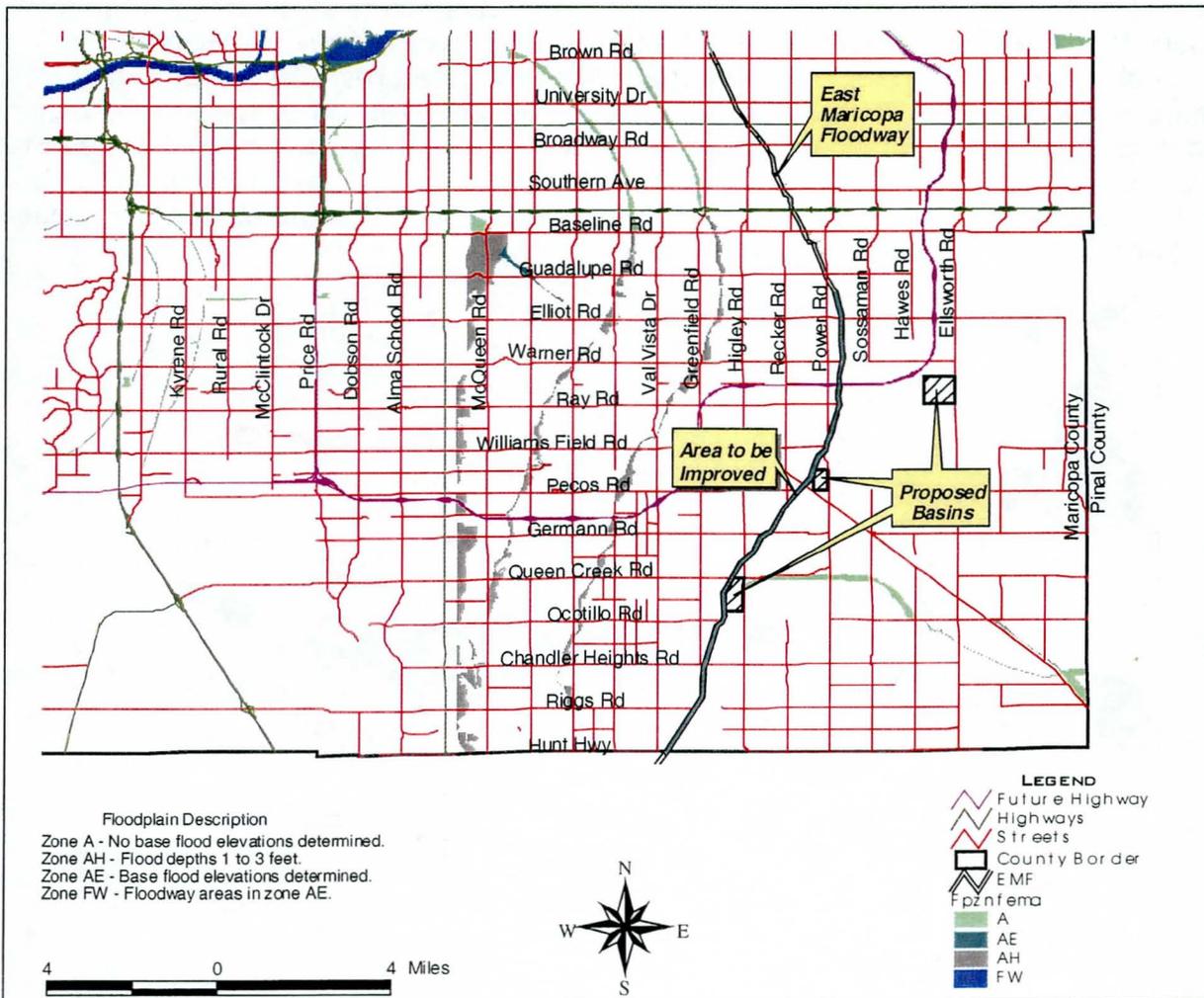
EMF Mitigation - Basins

P.M: Tim Phillips, P.E.

(602)506-4718

tsp@mail.maricopa.gov

The East Maricopa Floodway (EMF) Capacity Mitigation Plan will increase the capacity of the Floodway to convey the 100-year flows originating within the East Mesa watershed. The plan includes in-line and/or off-line detention basins with channel improvements between Broadway Road and Main Street and offline basins at three locations within the study area. The total expenditures in the CIP are now tentatively estimated at \$25.5 million over the next six years.



Supervisor District: 1,2

Municipality: Gilbert, Mesa, Queen Creek, UMC

PCN: 121.02.30

Township/Range: T1N R6E, Sections 15,22,23,26,35,36; T1S R6E, Sections 1,2,36; T1S, R7E, Sections 7,18,19,30,31; T2S R6E, Sections 1,2,10,11,15,22,27,28,33



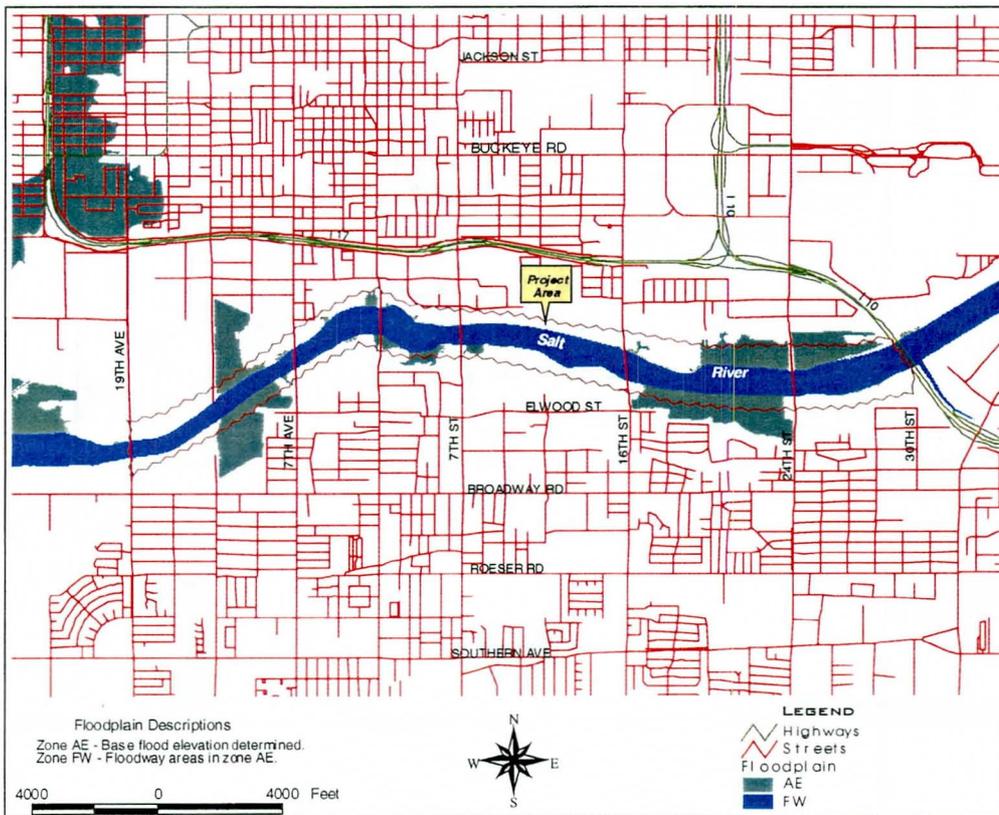
Phoenix Rio Salado

P.M: Don Rerick, P.E.

(602)506-4878

djr@mail.maricopa.gov

This project involves the environmental restoration of approximately 5 miles of the Salt River within the City of Phoenix from the I-10 Bridge to 19th Avenue. The project will provide riparian habitat restoration and include channel stabilization, river bank protection, water quality improvements, aesthetic improvements and recreational opportunities. The District has recommended that it participate in the construction of the low flow channel proposed for the full length of the project. On December 16, 1998, the BOD approved project IGA FCD 98040 and Resolution FCD 98-08. The low flow channel will stabilize the river gradient, safely convey frequent flood flows and reduce the frequency of inundation of channel vegetation from flood events. The low flow channel and main bank channel system will also limit scour and erosion of the channel banks and reduce the potential for disturbing landfill material that may be present adjacent to the channel. Project design requirements will insure that the current level of flood protection and river channel capacity in the 5 mile reach is not decreased by the environmental restoration features. The total project cost is estimated at \$83 million. The District's cost share for construction of the low flow channel flood control features is capped at \$11 million. Design is being done by the United States Army Corps of Engineers. Construction of the low flow channel features will occur in two phases: Phase 1 contract has been awarded in May, 2000 with construction completion in March, 2001. Phase 2 construction will begin in March, 2001.



Supervisor District: 5
Municipality: Phoenix
Township/Range: T1N R3E

PCN: 124.01.30



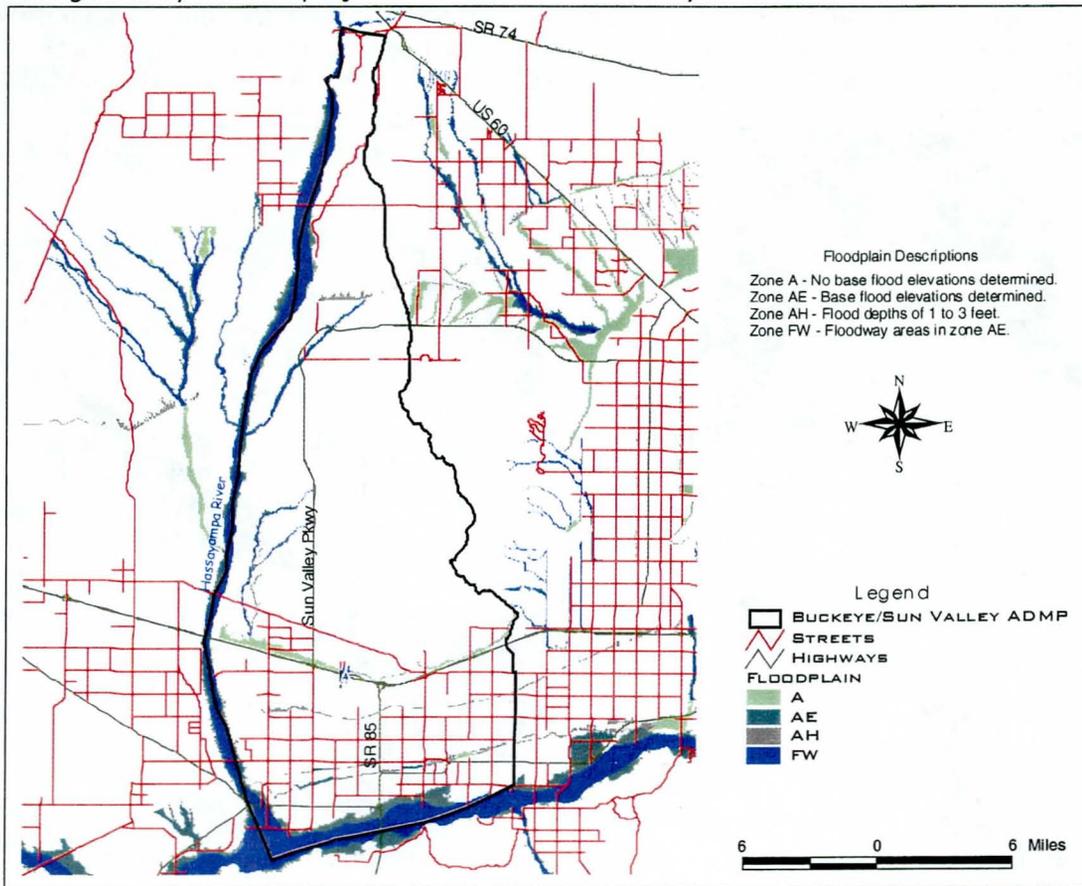
Buckeye/Sun Valley ADMP

P.M: Gregory Jones, P.E.

(602)506-5537

glj@mail.maricopa.gov

Current and projected District CIP expenditures can be divided into two parts: a planning study that will lay the groundwork for further flood control activities; and a design and construction phase that will address flooding issue. The planning study consists of providing professional engineering services necessary for developing an area drainage master plan to determine guidelines for stormwater management and mitigate flooding for the Buckeye/Sun Valley area. The study will include analysis of approximately 200 plus square miles of watershed for the eastern contributing watershed for the Hassayampa River from approximately the Morristown Highway (SR 74) south to the Gila River and from the White Tank Mountains west to the Hassayampa River. The study will identify drainage problems, update the existing hydrology due to development and new hydrologic methodology, and develop cost effective solutions for a storm water collection and disposal system and will further identify potential outfall alternatives. The planning study is budgeted at \$ 2.1 million dollars and is included in the CIP Budget for FY 02/03 and 03/04. The design and construction phase will involve the implementation of solutions to flooding that are identified once the planning and conceptual design phases have been completed, and remedial actions have been specified. Total expenditures in the CIP are now tentatively estimated at \$2.6 million for the study . Future budgets may include projects identified in the study.



Supervisor District: 4

Municipality: Buckeye, Surprise

Township/Range: T1S/R3W-R5W; T1N/R3W-R5W; T2N/R3W-R5W; T3N/R3W-R5W;
T4N/R3W-R5W; T5N/R4W; TT6N/R4W

PCN: 211.xx.xx



Wickenburg Wash "Q" Drainage

P.M: Bobbie Ohler, P.E.

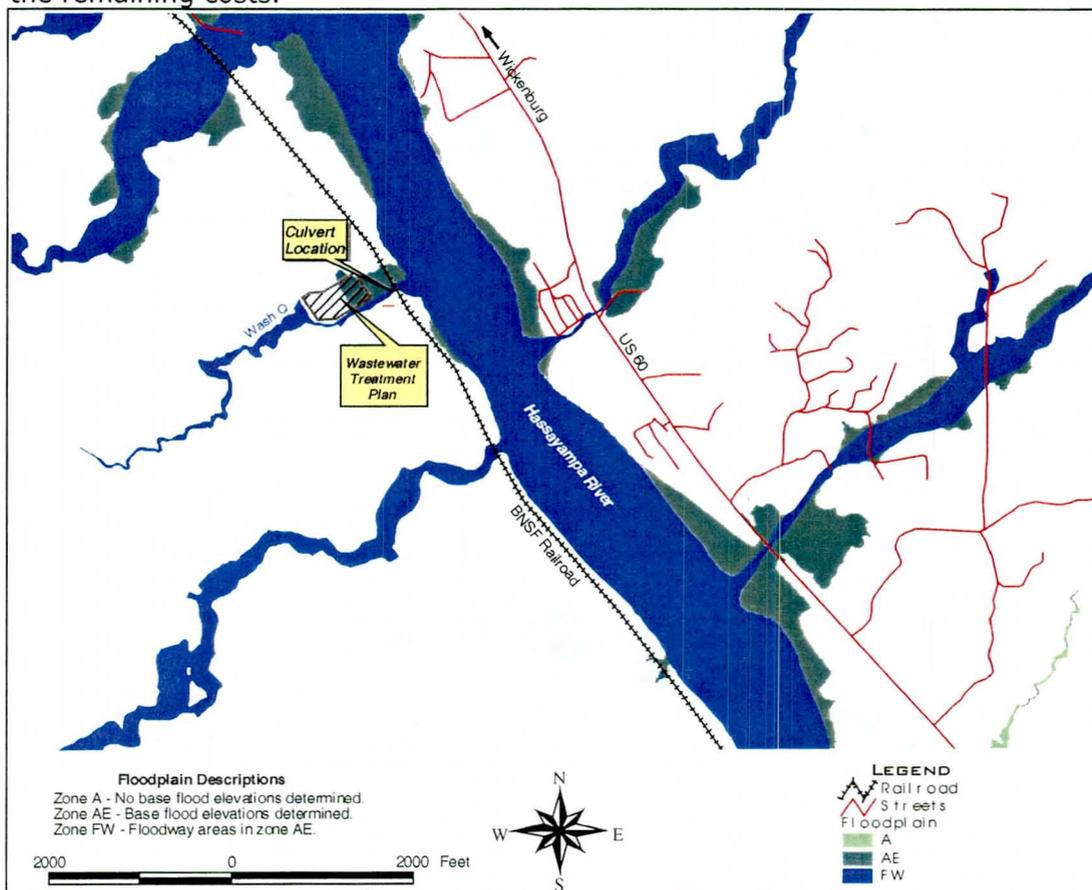
(602)506-2943

bao@mail.maricopa.gov

The Wickenburg Wash "Q" Drainage Project was submitted by the Town of Wickenburg for inclusion in the District's 1999-2000 CIP Prioritization Process. The project is to construct an additional culvert through the Burlington Northern Santa Fe Railroad embankment, so that the 100-year flood will pass through Wash "Q" to the Hassayampa River without inundating Wickenburg's wastewater treatment plant.

The District's 1992 Wickenburg Area Drainage Master Study provided a 100-year peak flow rate of 584 cfs for Wash "Q". The Arizona Department of Environmental Quality required the Town to investigate the effects of this flow rate on the Town's wastewater treatment plant, and the Town's study indicates that the wastewater treatment plant will be inundated by the 100-year flood, for existing conditions. Inundation of the wastewater treatment plant would result in contamination of the surrounding area, the Hassayampa River, and the Hassayampa River Preserve, which is less than one mile downstream of Wash "Q". ADEQ requires that the Town protect the wastewater treatment plant from inundation by the 100-year flood, before they will issue an Aquifer Protection Permit to the Town to allow it to continue operating the wastewater treatment plant.

The project is to jack one 60-inch culvert through the railroad embankment, and to install concrete headwalls at the culvert inlet and outlet. The District will fund 60 percent of the project costs, estimated project cost equal to \$100,000, with the District's share capped at \$60,000 and the Town funding the remaining costs.



Supervisor District: 4
 Municipality: Wickenburg
 Township/Range: T7N R4W

PCN: 343.02.31



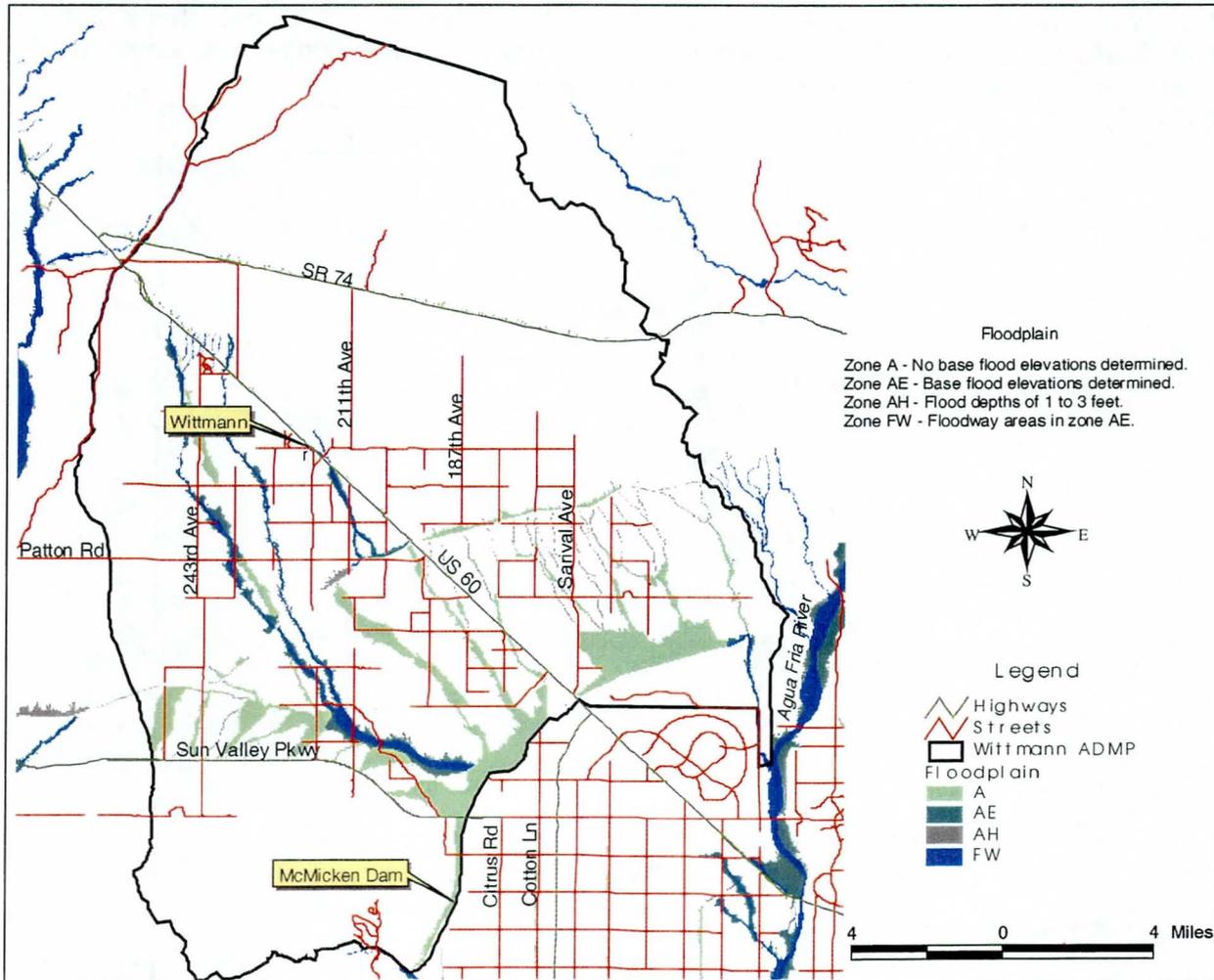
Wittmann ADMP

P.M: Gregory Jones, P.E.

(602)506-5537

glj@mail.maricopa.gov

Current and projected District CIP expenditures can be divided into two parts: a planning study that will lay the groundwork for further flood control activities; and a design and construction phase that will address flooding issues. The planning study consists of providing professional engineering services necessary for developing an area drainage master plan to determine guidelines for stormwater management and mitigate flooding within the Wittmann area. The study will include analysis of approximately 300 plus square miles of watershed for the contributing watershed for the McMicken Dam south to the White Tank Mountains, and from approximately Douglas Ranch Road east to the North Peoria ADMP. The study will identify drainage problems, update the existing hydrology due to development and new hydrologic methodology, and develop cost effective solutions for a storm water collection and disposal system and will further identify potential outfall alternatives. The planning study is budgeted at \$ 1.8 million dollars and is included in the CIP Budget for FY 01/02, 02/03 and 03/04. The design and construction phase will involve the implementation of solutions to flooding that are identified once the planning and conceptual design phases have been completed, and remedial actions have been specified.



Supervisor District: 4

Municipality: Buckeye, Surprise

Township/Range: T3N/R2W-R4W; T4N/R1W,R3W,R42; T5N/R1W-R4W; T6N/R1W-R4W; T7N/R2W-R3W

PCN: 344.xx.xx



Upper New River BLM Land Acquisition

P.M: Theresa Hoff

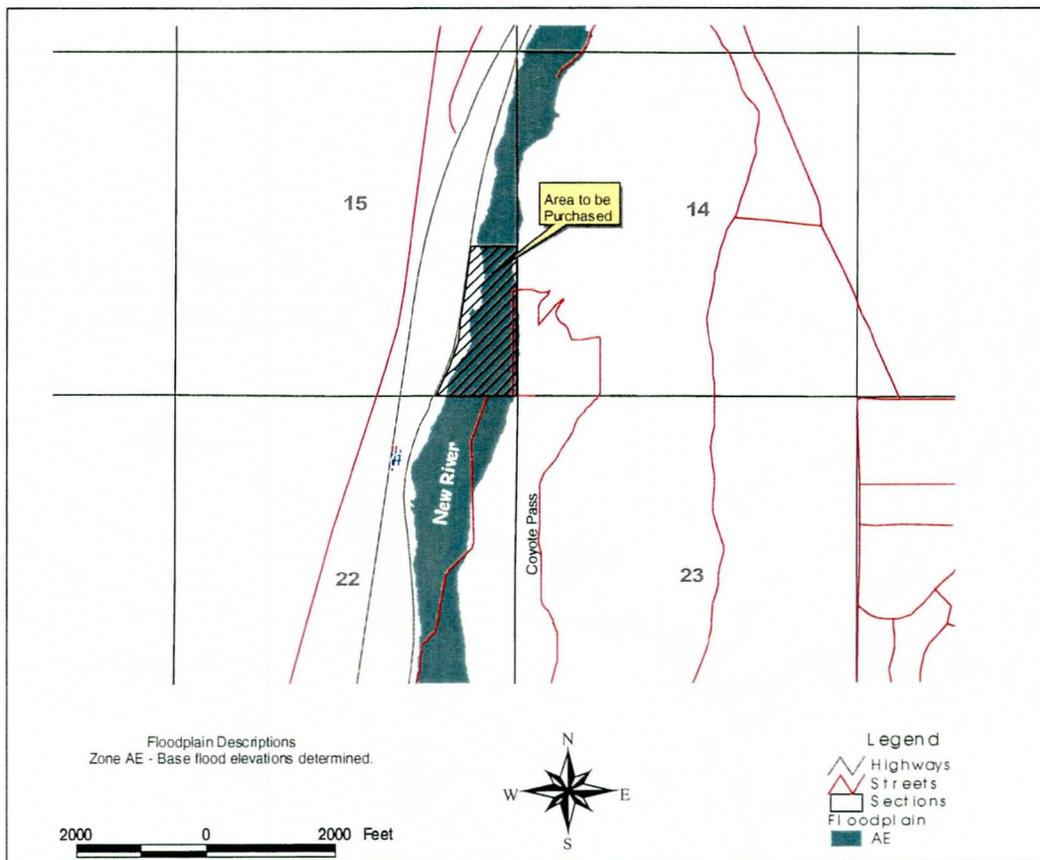
(602)506-8127

tmb@mail.maricopa.gov

The District is in the process of acquiring approximately 60 acres of land currently owned and managed by the U.S. Bureau of Land Management (BLM). The BLM property is immediately upstream to approximately 29 acres of land the District acquired in 1995 as part of the Upper New River Flooding Mitigation project. Under the Recreation or Public Purposes Act, the federal government is authorized to sell or lease public lands to state and local governments for recreation or public purposes.

With the acquisition of the BLM property, the District will own about $\frac{3}{4}$ of a mile of land adjacent to and in the floodplain of the New River. The land will be managed to preserve the natural and beneficial uses of the floodplain and riparian habitat. The District has initiated negotiations with local government agencies and a non-profit corporation for the management of the acquired property as a natural riparian area for conservation and wildlife habitat that would be compatible with flood control purposes.

The application for acquisition process consists of leasing the land for 5 years and, after the application for acquisition is accepted by the BLM, the District could purchase the land in the 6th year. The annual lease is \$2 per acre and the purchase price is \$10 per acre. Total expenditures for this project are budgeted at \$17,200 over the six-year application process. The expected expenditures for the FY 2000/2001 is \$16,120. This expenditure includes the lease, Phase I Environmental Site Assessment, land survey, archeological survey, and fencing costs.



Supervisor District: 3
Municipality: UMC
Township/Range: T7N R2E

PCN: 371.03.31



Paradise Shores Bank Protection

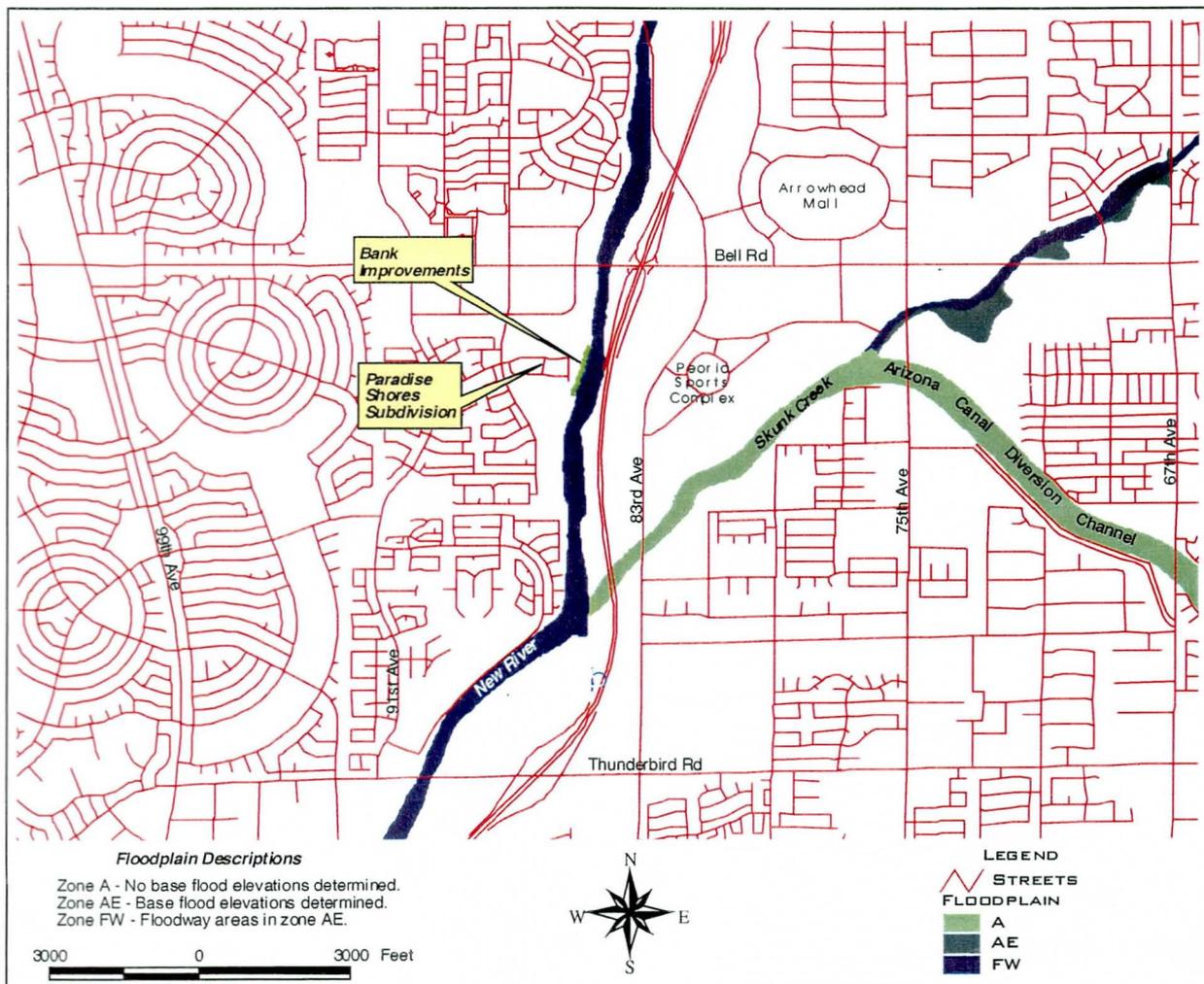
PM: Doug Williams, AICP

(602)506-8743

daw@mail.maricopa.gov

The goal of the Paradise Shores / New River Bank Protection Project is to provide bank stabilization and armoring along the west bank of New River immediately adjacent to the Paradise Shores Subdivision. Under existing conditions, the segment of the west bank adjacent to the subdivision is the only west bank unprotected between Bell Road and the New River Confluence with Skunk Creek.

The improvements will consist of minor channel excavation and armoring of the west channel slope with wire-tied, rock filled mattresses. This project was identified in the Middle New River Watercourse Master Plan and is ranked as a medium priority within the Master Plan.



Supervisor District: 4
 Municipality: Peoria
 Township/Range: T3N, R1E, Section 3

PCN: 400.xx.xx



83rd Avenue Drop Structure

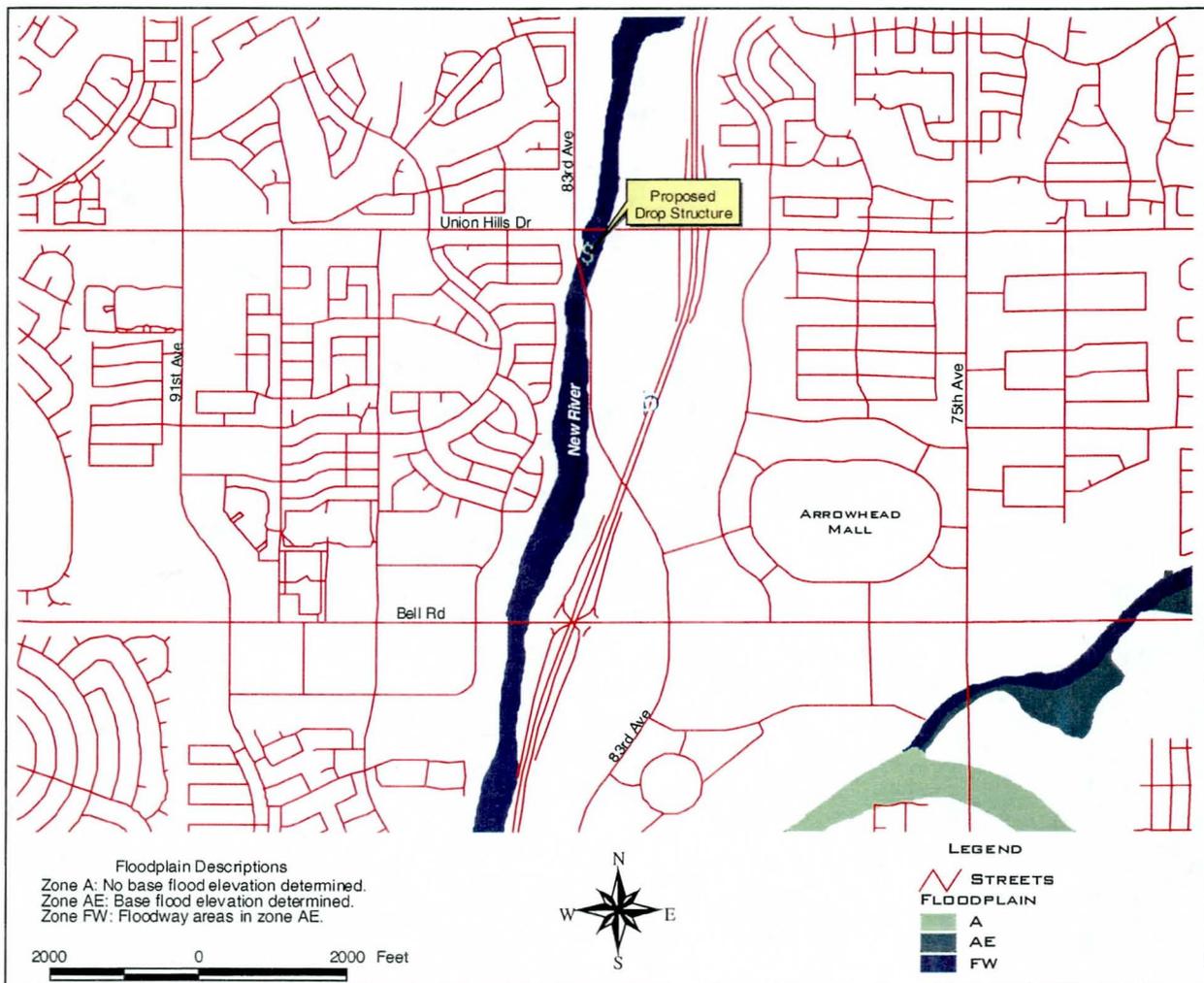
P.M: Doug Williams, AICP

(602)506-8743

daw@mail.maricopa.gov

The 83rd Avenue Grade Control Structure and New River Channel Improvements (Bell Road to Union Hills) project will increase the capacity of New River Channel so that the 100-year Flood is conveyed within the channel without overtopping the channel banks. Under existing conditions, results of hydraulic models indicate that FEMA 100-year discharges are not contained within the channel. Minor flow breakouts occur along the west bank downstream of Union Hills Drive.

Proposed improvements consist of channel excavation and construction of a grade control structure. The proposed location for the grade control structure is downstream of the 83rd Avenue crossing. This project is an element of the Middle New River Watercourse Master Plan and is ranked as a high priority within the Master Plan.



Supervisor District: 4
Municipality: Glendale
Township/Range: T4N, R1E, Section 34, 35

PCN: 400.xx.xx



Spook Hill ADMP

P.M: Afshin Ahouraiyan

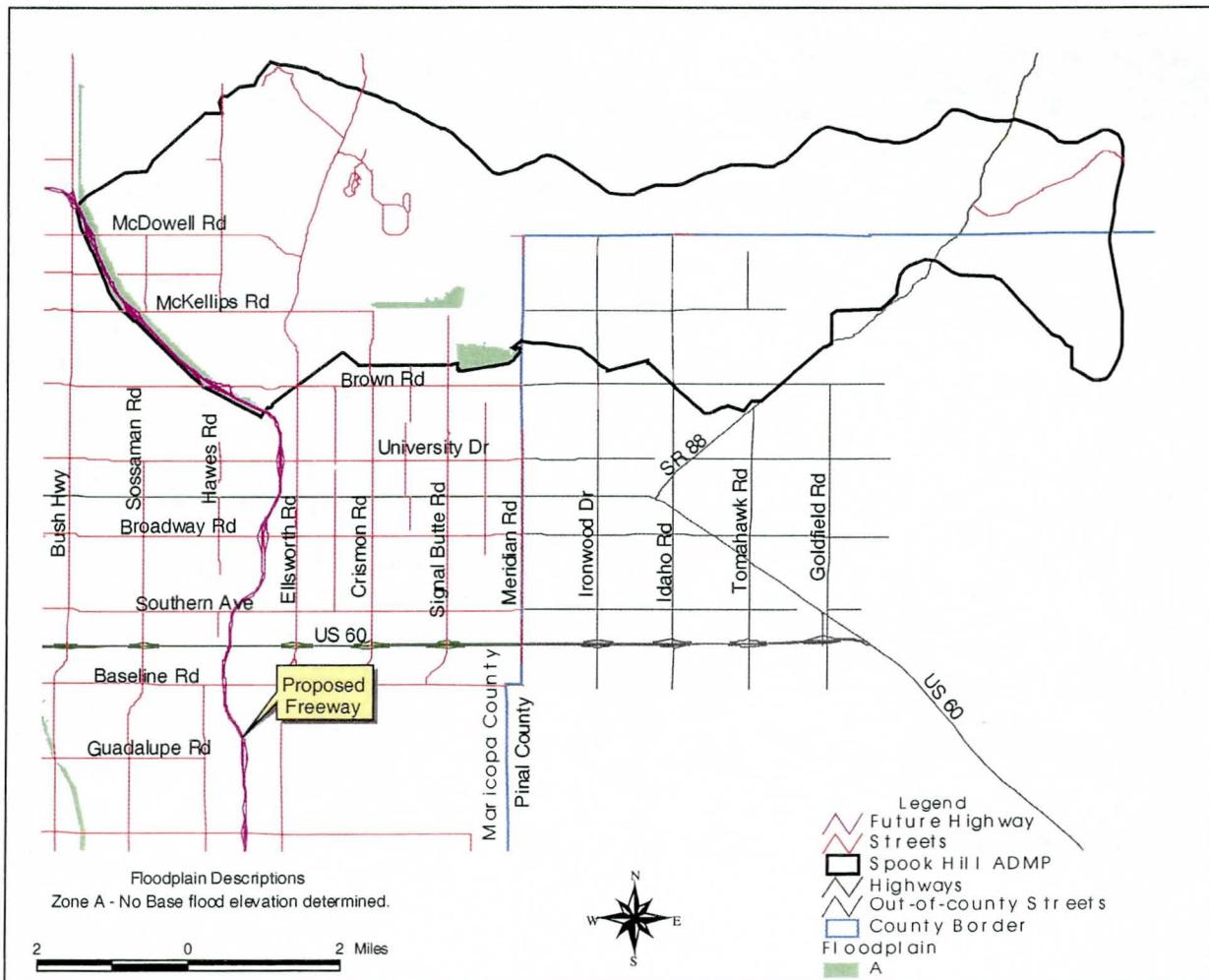
(602)506-4519

afa@mail.maricopa.gov

The purpose of the Spook Hill Area Drainage Master Plan is to update and expand the existing Spook Hill Area Drainage Master Study conducted in 1987. The study will quantify the extent of flooding problems, incorporate existing drainage structures into the model and develop alternative solutions to flooding problems for the entire Buckhorn-Mesa Watershed.

The two major objectives of the study are:

- 1) Develop a plan to control runoff to prevent flood damage within the watershed, and,
- 2) Mitigate the potential increase in runoff due to development in order to preserve the ability of the Buckhorn-Mesa Projects providing protection to lands downstream from future 100-year flood damages. The approximate watershed area is 16 square miles. The planning study is budgeted at \$1.7 million and is included in the CIP budget with a construction budget of \$ 5,800,000 for FY 2003/2004 and 2004/2005.



Supervisor District: 1,2

Municipality: Apache Junction/Mesa/UMC/Pinal County

Township/Range: T2N, R7E, Sections 18-22, 25-36; T1N, R7E, Sections 1-12, 16; T1N, R8E, Sections 2-11,16; T2N, R8E, Sections 31-36

PCN: 420.01.31



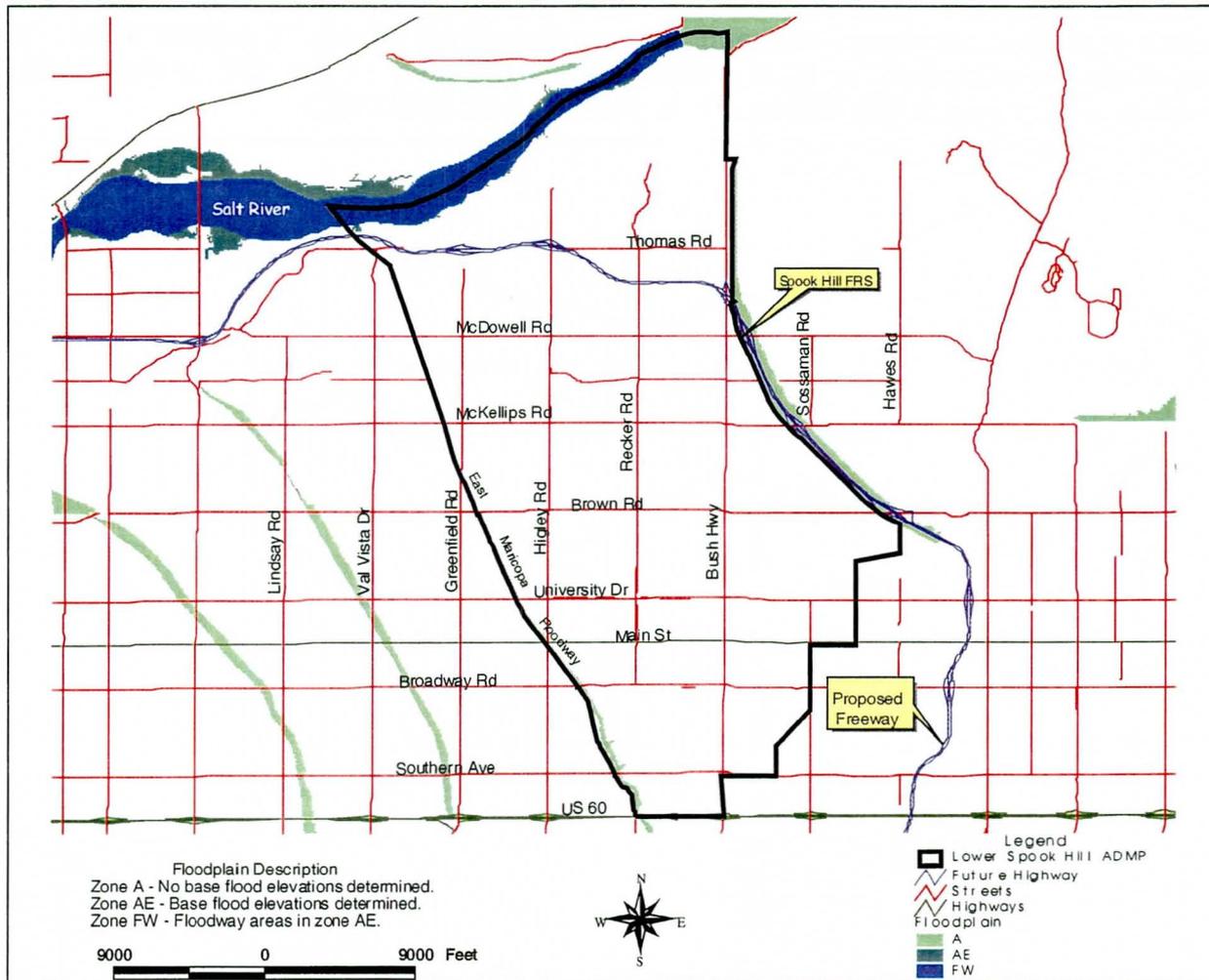
Lower Spook Hill ADMP

P.M: Tim Phillips, P.E.

(602)506-4718

tsp@mail.maricopa.gov

This study was identified and prioritized within the District's Area Drainage Master Plan program. The program was initiated in 1985. The studies consist of hydrologic and engineering studies, which identify flooding hazards and establish recommended plans to mitigate the flooding hazards. The study boundaries are the East Maricopa Floodway on the west, the Spook Hill FRS on the east, Salt River to the North and Superstition Freeway (U.S.60) to the south, for an approximate area of 20 square miles. The planning study is budgeted to commence in FY 01/02 at \$120,000. The total expenditures in the CIP are now estimated at \$550,000.



Supervisor District: 2

Municipality: Mesa, UMC

Township/Range: T1N R6E Sections 1-4, 9-15, 22-26, 36; T1N R7E

Sections 6-8, 17-19, 30; T2N R6E, Sections 23-28, 33-36

PCN: 422.xx.xx



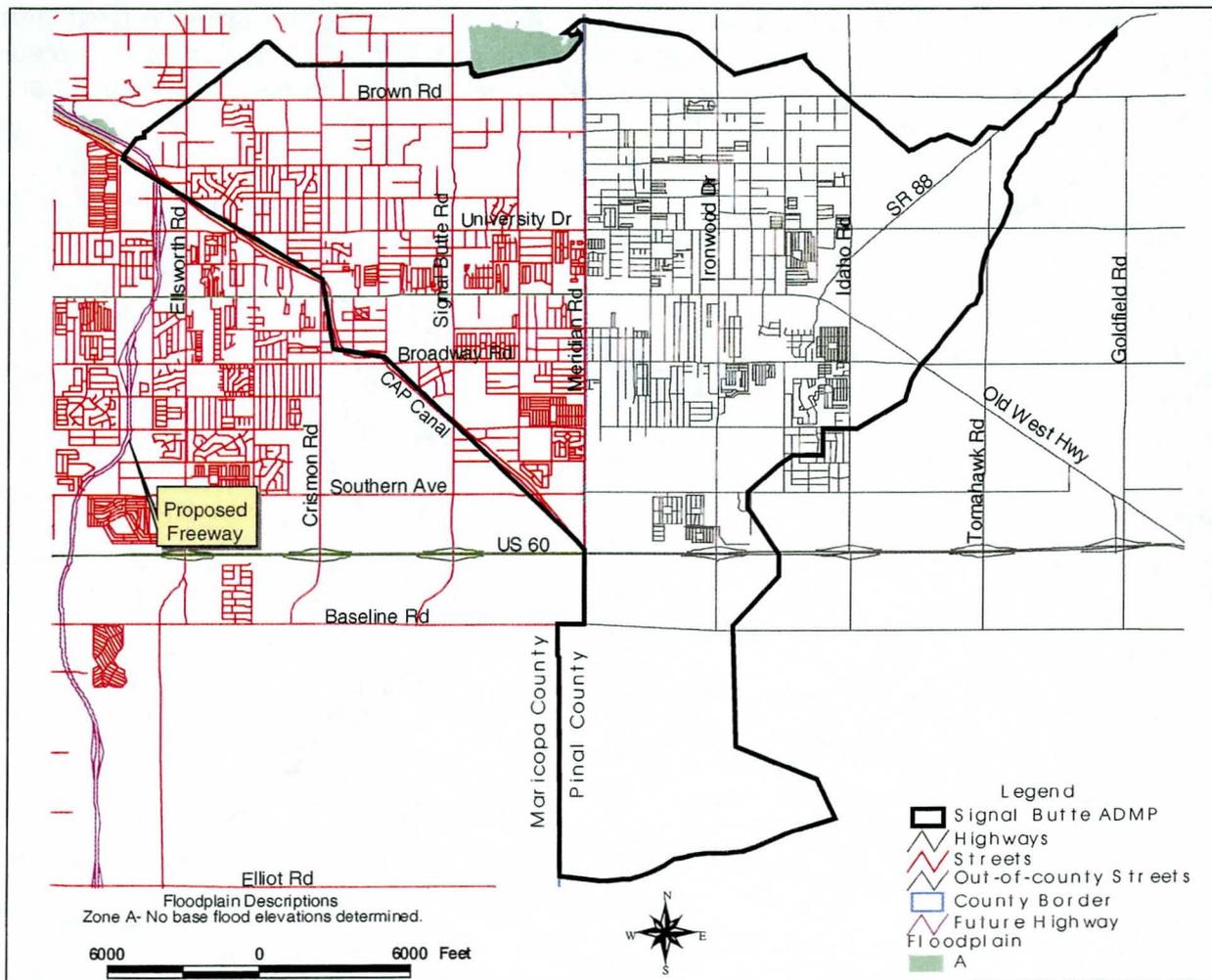
Signal Butte ADMP

P.M: Tim Phillips, P.E.

(602)506-4718

tsp@mail.maricopa.gov

This study was identified and prioritized within the District's Area Drainage Master Plan program. The program was initiated in 1985. The studies consist of hydrologic and engineering studies, which identify flooding hazards and establish recommended plans to mitigate the flooding hazards. The study boundaries are Elliot Road to the south, Buckhorn-Mesa structures to the North, Central Arizona Project to the west and Apache Trail (SR88) to the east for an approximate area of 12 square miles. The planning study is budgeted for FY 02/03-03/04 at \$500,000.



Supervisor District: 1,2
 Municipality: Apache Junction, Mesa, Pinal County, UMC
 Township/Range: T1N R8E, Sections 7,8,16-21,28,29,31,32; T1N R7E,
 Sections 10-15, 22-25, 36

PCN: 423.xx.xx



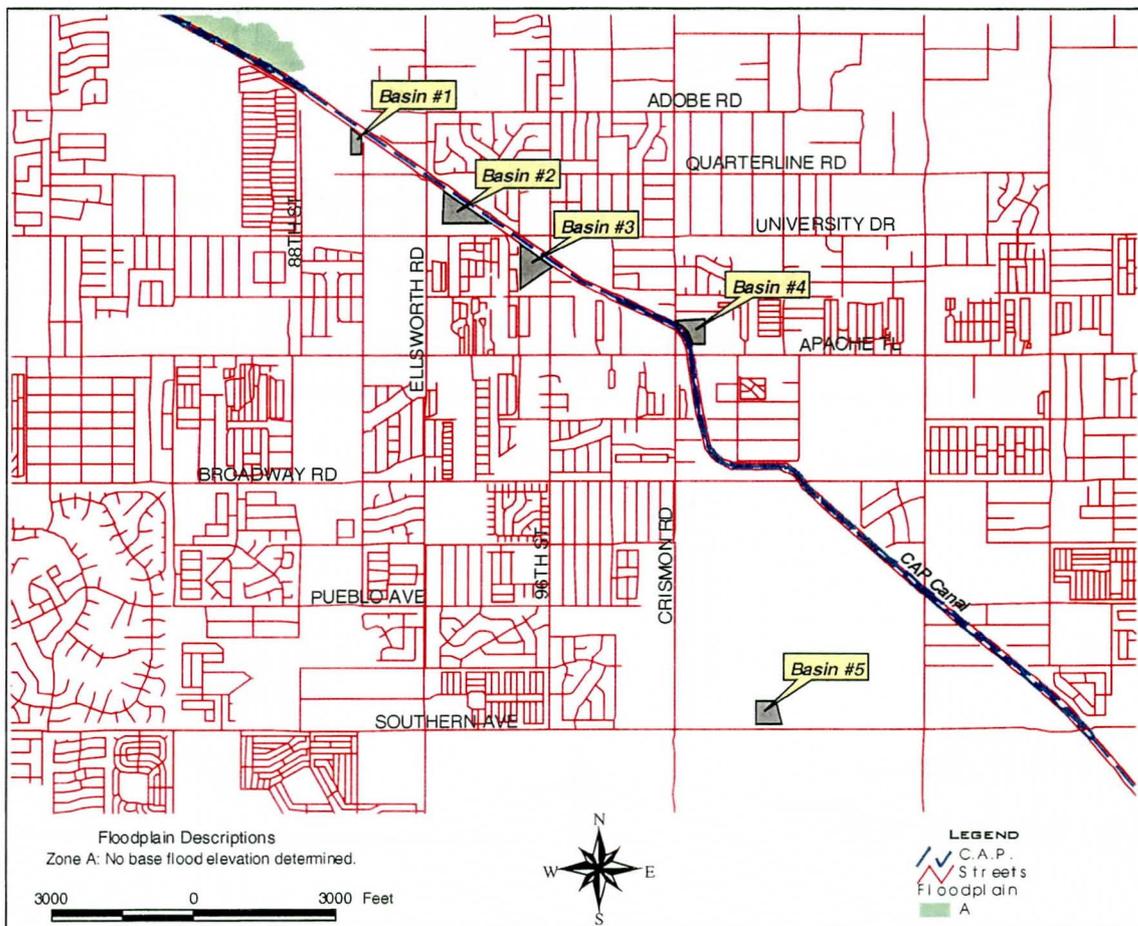
Five Basins Along CAP

P.M: Don Rerick, P.E.

(602)506-4878

djr@mail.maricopa.gov

The project consists of five detention basins along the CAP Canal at the following locations: 1) Basin #1- west of 90th Street north of Decatur Road; 2) Basin #2 - northeast corner of Ellsworth Road and University Drive; 3) Basin #3 - west of 96th Street and north of Boise Street; 4) Basin #4 - north of the CAP Canal and east of Crismon Road; and 5) Basin #5 - northeast corner of Crismon Road and Southern Avenue. The purpose of these basins is to intercept flow from the CAP Canal overchutes before it discharges into natural washes and causes downstream flooding. The basins are designed so that routine overflows (5 year storm events or smaller) are allowed to pass through the basins, leaving most of the basins dry. This allows recreational uses to continue after all but the severest storm events. However, when there is a major storm event, the basins retain water, protecting areas from flooding. The estimated design and construction cost for the five basins is \$4.4 million. The City of Mesa will own, operate and maintain these basins after construction. The rights-of-way for all of the basins has been acquired and final design is complete. Construction for the basins began in February, 2000 and will be completed in September, 2000. The basins are begin constructed under three separate contracts.



Supervisor District: 1
 Municipality: Mesa, UMC
 Township/Range: T1N R7E 15, 16, 22, and 23

PCN: 442.03.30



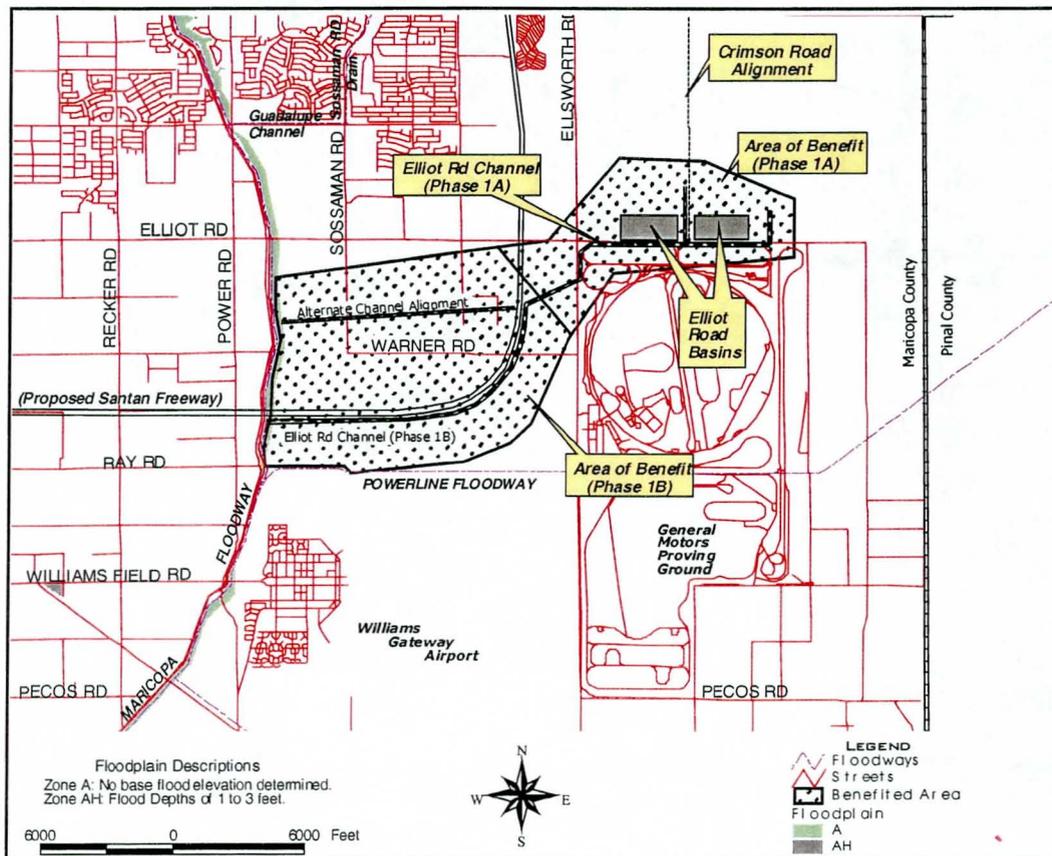
Elliot Detention Basin & Outfall Channel

P.M: Scott Vogel, P.E.

(602)506-4771

csv@mail.maricopa.gov

The Elliot Road Channel and Basins are projects that are identified in the East Mesa Area Drainage Master Plan. The East Mesa ADMP identifies drainage problems and develops solutions for a storm water collection and basin system for eastern Maricopa County including portions of the City of Mesa, the Town of Gilbert, the Town of Queen Creek, and unincorporated Maricopa County. The Elliot Road Basins are located at the corner of Elliot Road and the Crismon Road alignment. They collect runoff from the Crismon Channel, which extends along Crismon Road north of Elliot Road and from the Elliot Road Channel extending along Elliot Road to the east. The basins attenuate peak flows to reduce the size and cost of required downstream improvements. The basins are anticipated to become a multi-use facility, being improved and maintained as City of Mesa parks. The channel conveys discharge from the Elliot Road Basins, from the Elliot Road Channel, Phase 2 (extending east along Elliot Road to a basin at Meridian Road). The Elliot Road Channel, Phase 1A, extends west along Elliot Road, day-lighting west of Ellsworth Road in six natural washes. The future Phase 1B will extend from this point to the East Maricopa Floodway. The City of Mesa may be interested in creating a joint use for the channel as a linear park.



Supervisor District: 1
 Municipality: Mesa
 Township/Range: T1S R7E

PCN: 442.04.31



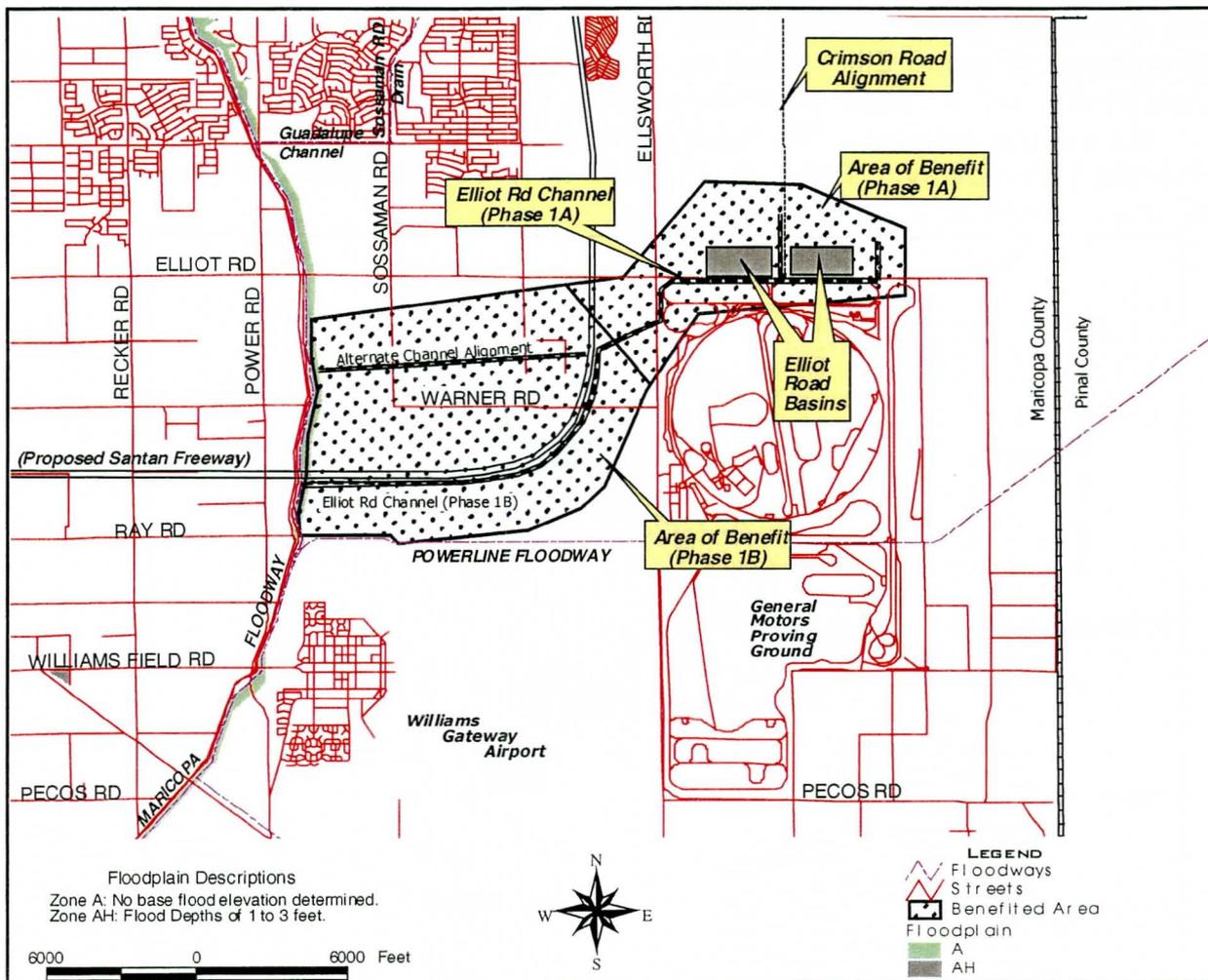
Elliot Channel (Ellsworth to EMF)

P.M: Tim Phillips, P.E.

(602)506-4718

tsp@mail.maricopa.gov

The Elliott Road channel and Basin is a project identified in the East Mesa Area Drainage Master Plan. The East Mesa ADMP identifies drainage problems and develops solutions for a storm water collection and basin system for eastern Maricopa County including portions of the City of Mesa, the Town of Gilbert, the Town of Queen Creek, and unincorporated Maricopa County. The Elliott Road Channel, Phase 1B connects to Phase 1A, extending from Ellsworth Road to the east, potentially following the proposed Santan Freeway alignment to the EMF. An alternate route for the channel has been identified that extends from Elliott Road and Ellsworth Road westerly, crossing the Santan Freeway and to the EMF. The City of Mesa may be interested in creating a joint use for a channel as a linear park. The total expenditures in the CIP are now estimated at \$9 million.



Supervisor District: 1
 Municipality: Mesa
 Township/Range: T1S R7E

PCN: 442.xx.xx



Southern Avenue Channel

P.M: Don Rerick, P.E.

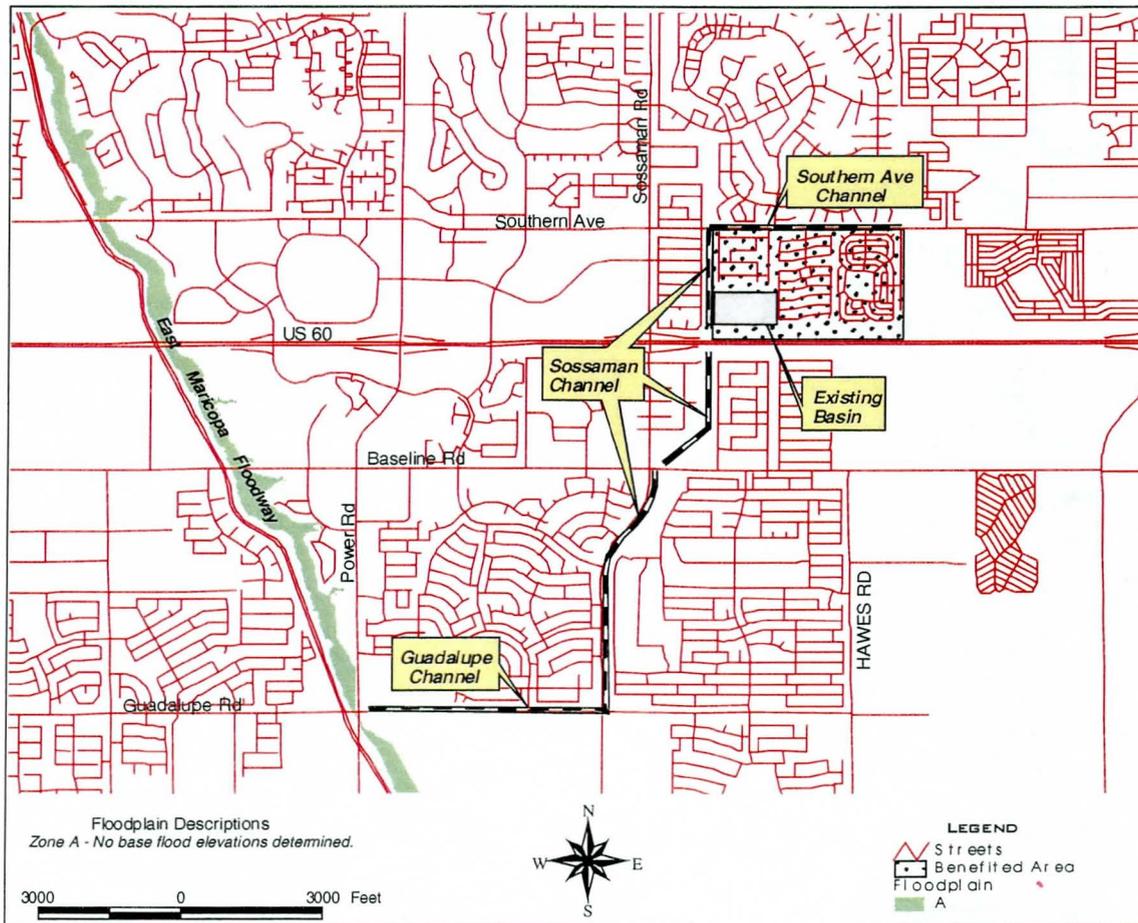
(602)506-4878

djr@mail.maricopa.gov

Mesa, the Maricopa County Department of Transportation (MCDOT), and the District have reported severe flooding along several major transportation corridors and near the CAP overchutes at their points of discharge. The District is currently constructing detention basins downstream of the CAP overchutes to capture the flows and reduce the peak flow in the existing washes and channels. (see Five Basins on page 58)

The outfall channels and / or washes from the basins along the CAP Canal drain into a channel along Hawes Road. This channel splits into two channels: a channel along Southern Avenue from Hawes Road to 78th Street, and a channel along Hawes Road from Southern Avenue to the Superstition Freeway. The channel along Southern Avenue is an integral part of the drainage system in this area. The existing channel, which is deteriorating at present, does not have adequate capacity to convey the 100-year flow. Thus, the channel must be enlarged to convey a larger system.

The City of Mesa has acquired rights-of-way, completed design and relocated utilities for this project. The District will cost share 50% of the project and Mesa will own and operate the completed project.



Supervisor District: 1
Municipality: Mesa, UMC
Township/Range: T1N R6E

PCN: 442.07.30



Ellsworth Road Channel

P.M.: Bobbie Ohler, P.E.

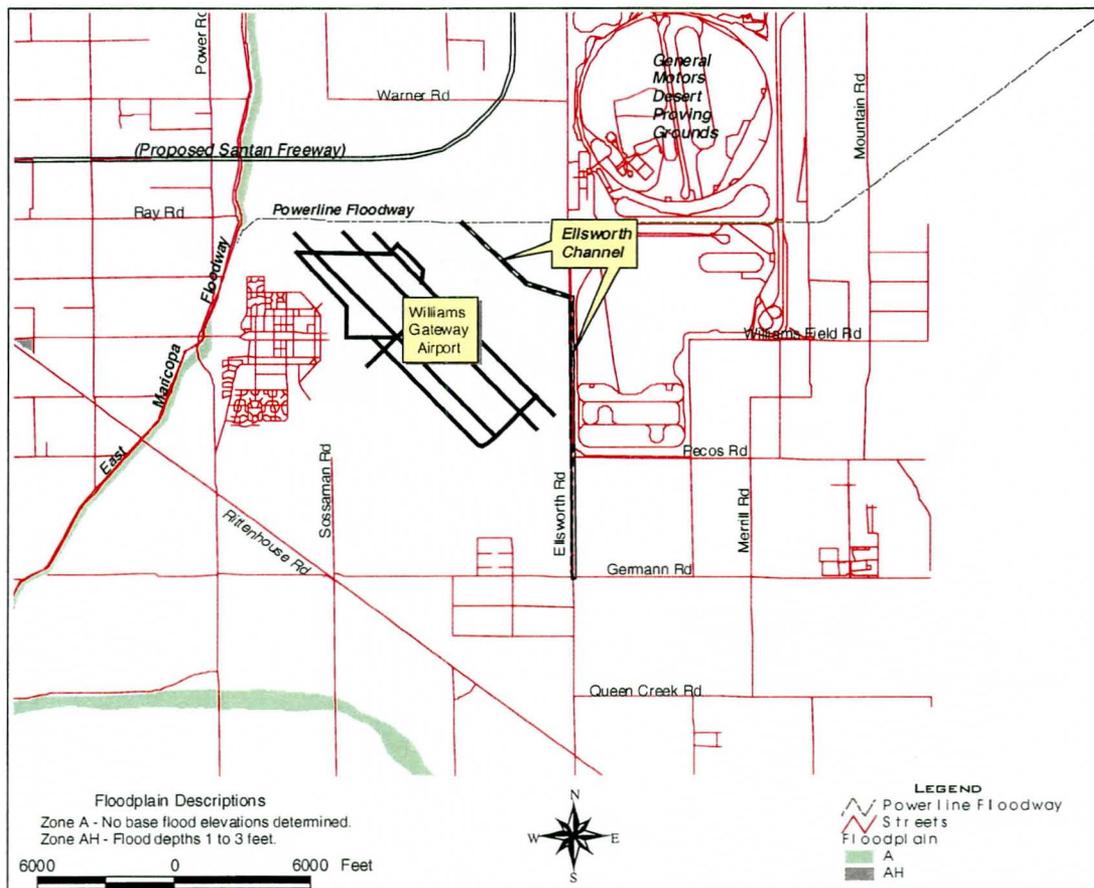
(602)506-2943

bao@mail.maricopa.gov

This project was prioritized in the East Mesa Area Drainage Master Plan, and involves construction of a flood control channel to mitigate existing and future flooding along Ellsworth Road, adjacent to General Motors Proving Ground and Williams Gateway Airport. Flooding occurs frequently at five dip crossings on the existing roadway. The channel project will be constructed in conjunction with MCDOT's upgrades to Ellsworth Road from Germann Road to 1/3 mile south of Guadalupe Road, and will provide drainage for the road and capacity for the 100-year flood.

On June 21st, 2000, the Board of Directors approved IGA FCD 2000A002, among the District, MCDOT, and Mesa, to design and construct the Ellsworth Road Channel Project. The design for the channel will include an alternatives analysis. The preliminary design is for a channel approximately 18,600 feet in length, starting at Germann Road and running north along the east side of Ellsworth Road; crossing Pecos Road; crossing Ellsworth Road; running north along the west side of Ellsworth Road to approximately 1/2 mile south of the Powerline Floodway; and running to the northwest to outfall to the Powerline Floodway.

The cost for the channel project is estimated to be \$8,000,000, with the District's share equal to 50 percent or \$4,000,000.



Supervisor District: 1
 Municipality: Mesa, UMC
 Township/Range: T1S R7E 27,28,33,34 and T2S R7E 3,4

PCN: 442.08.31



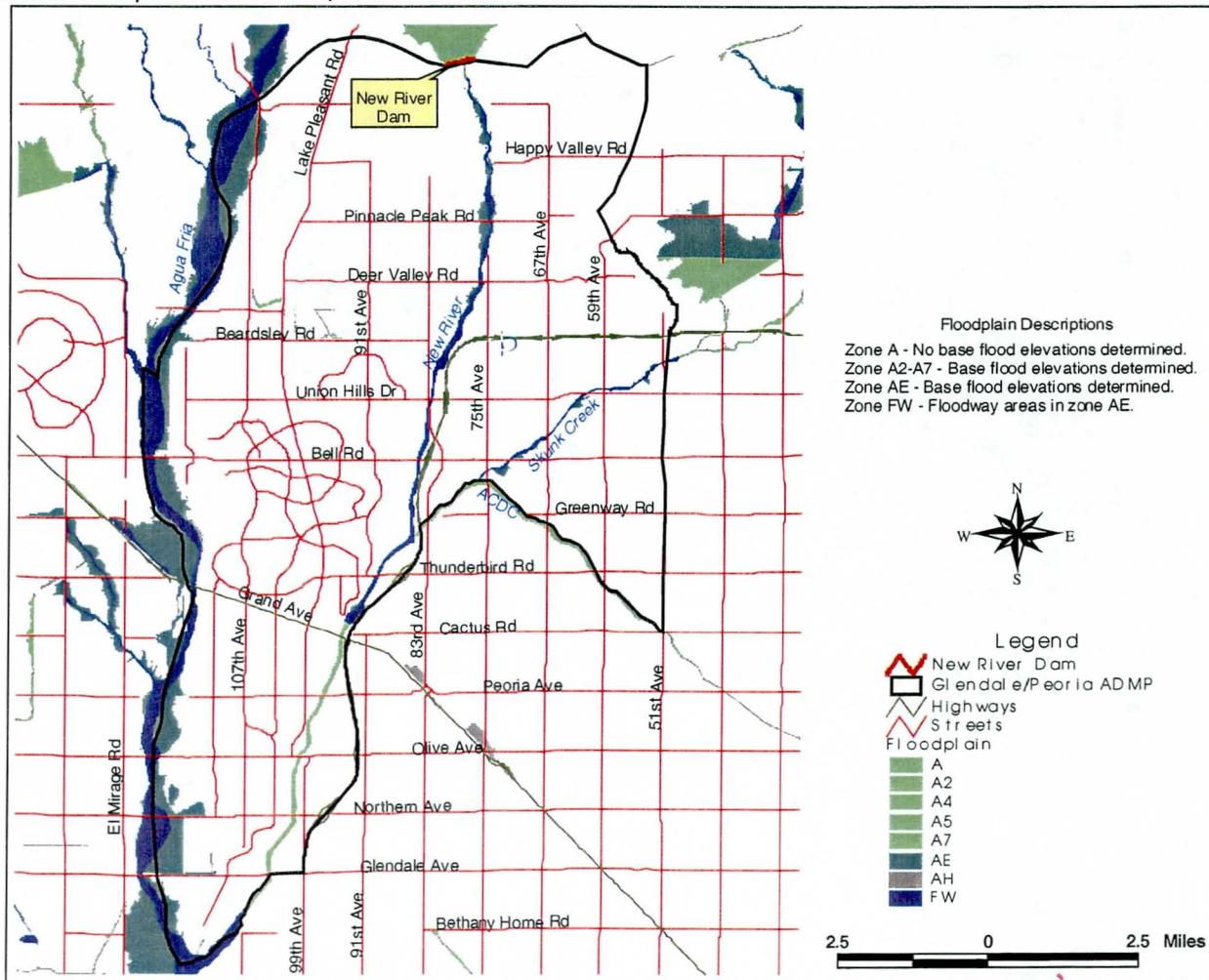
Glendale/Peoria ADMP Update

P.M: Marilyn DeRosa, R.G.

(602)506-4766

mdr@mail.maricopa.gov

Current and projected District CIP expenditures can be divided into two parts: a planning study that will lay the groundwork for further flood control activities, and a design and construction phase that will address flooding issues in the Glendale/Peoria Area. The planning study consists of providing professional engineering services necessary to update the existing area drainage master plan and identify guidelines for stormwater management and flooding mitigation for the Glendale/Peoria Area. The study will include analysis of approximately 85 square miles of watershed from the New River Dam south to the Agua Fria River and New River confluence and from approximately the 51st Avenue alignment west to the Agua Fria River. The study will identify drainage problems and develop cost effective solutions for a stormwater collection and disposal system and will further identify potential outfall alternatives. The planning study is budgeted at \$1.4 million and is included in the CIP budget. The design and construction phase may involve flooding solutions at various strategic locations once the planning and conceptual design phases have been completed. The study will be complete in FY 00/01.



Supervisor District: 4

Municipality: City of Glendale, City of Peoria, City of Surprise, Town of Youngtown, UMC
 Township/Range: T3N, T4N, R1E

PCN: 450.02.01



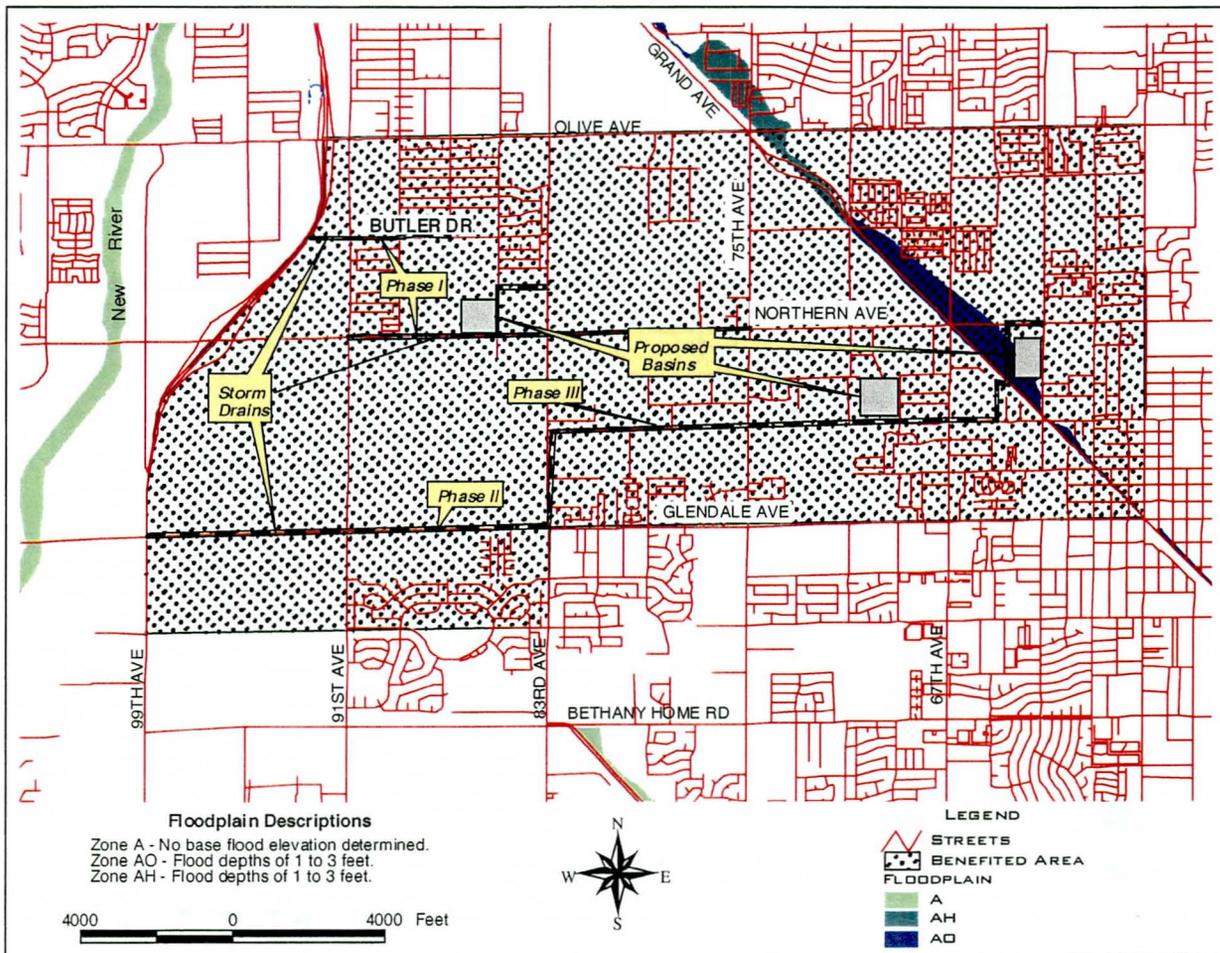
Northern/Orangewood Storm Drain

P.M: Don Rerick, P.E.

(602)506-4878

djr@mail.maricopa.gov

This project includes 10-year storm drains, running west between the Butler Drive and Glendale Avenue alignments, from 63rd Avenue to the Agua Fria Freeway. The project will benefit 14 square miles of existing development in Glendale, Peoria and unincorporated County lands that have been subjected to flood events in the past several years. The drain will also provide an outlet for future municipal storm drains and MCDOT's Northern/75th/83rd Avenue projects as well as ADOT's Grand Avenue project. Three detention basins (two in Glendale and one in Peoria) will be constructed to reduce pipe costs while increasing the future level of protection and providing water quality and recharge benefits. By having ADOT excavate the basins, the District and ADOT saved an estimated \$2 million each. Total project costs are estimated at \$17 million (50% District, 50% by Glendale and Peoria). Glendale will provide O&M for the portions of the project in Glendale and the unincorporated County, while Peoria will provide operations and maintenance for the portions within its city limits. An IGA with the cities was approved in April 1994. The District has acquired the basin sites and reimbursements to the District have begun. The Glendale Ave. Storm Drain and the Orangewood Ave Storm Drain have been completed. MCDOT will commence construction of the Northern & Butler Storm Drains in 2000.



Supervisor District: 4

Municipalities: Glendale and Peoria

Township/Range: T3N R1E S33-36, T3N R2E S31, T2N R1E S1-4, T2N R2E S6

**PCNs: 450.03.30
 through 450.03.33**



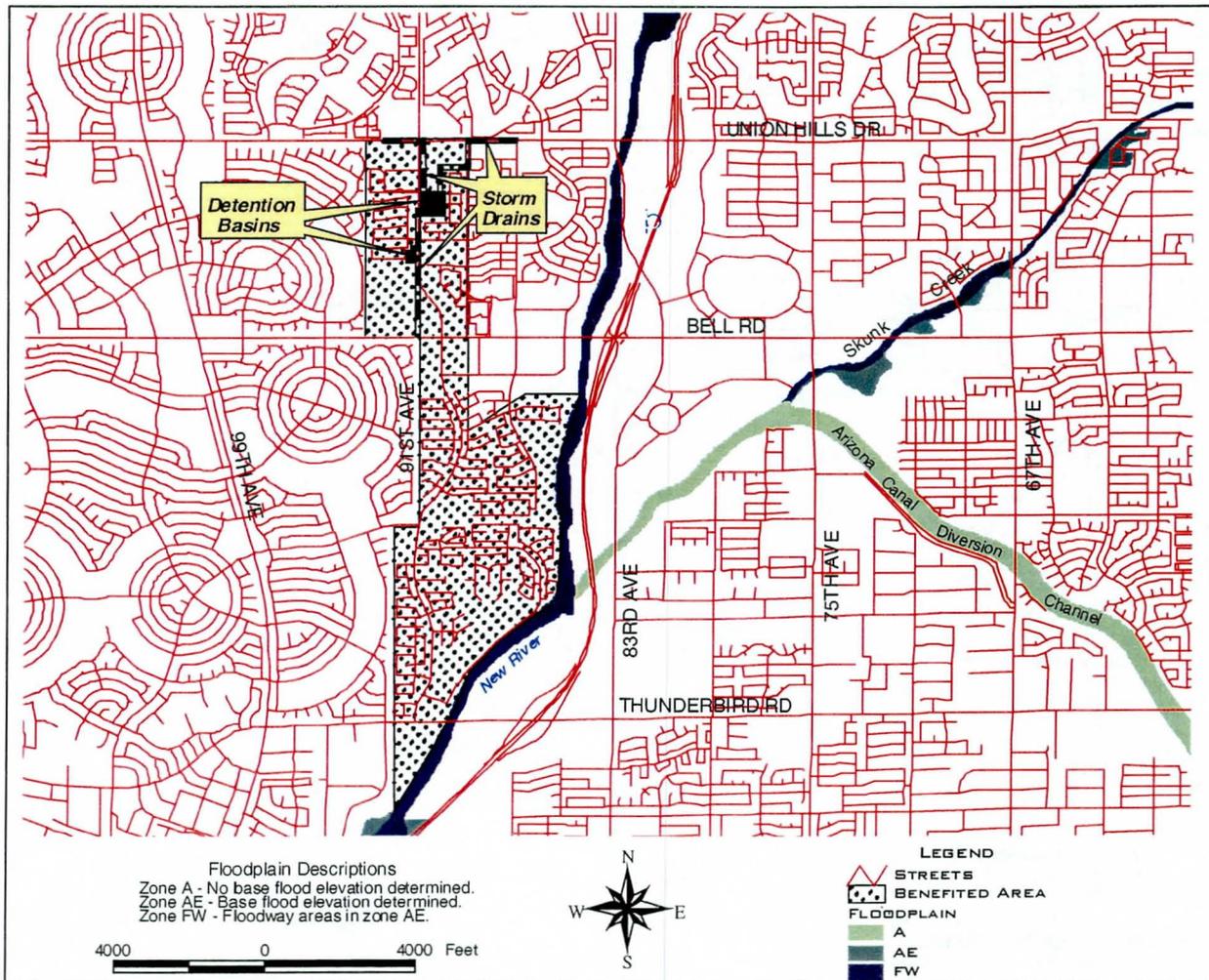
91st Ave/Union Hills Drainage

P.M: Don Rerick, P.E.

(602)506-4878

djr@mail.maricopa.gov

This project will include the construction of a regional storm drain with basins from Union Hills Drive, south to Bell Road. The project will protect seventy-five existing homes and a twenty-acre multi-family complex. An additional 600 residential lots and a forty-acre business park have been platted in the project area. The need for the project has been identified in the City of Peoria's North Area Drainage Plan, which indicated a concentration of 1750 cubic feet per second (CFS) of sheet flow from the eastern perimeter of Sun City. The project will be cost shared with Peoria on a 50/50 basis. The estimated cost for this project is \$350,000 (Design) and \$10,700,000 (Construction). The District cost share is capped at \$5,350,000 for construction. Peoria is providing the design, right-of-way acquisition, construction and the operation and maintenance for this project. Project responsibilities are specified in IGAs FCD 98005 and FCD 99009.



Supervisor District: 4
 Municipality: Glendale, Peoria
 Township/Range: T4N R1E S27, 28, 33, 34

PCN: 450.04.30



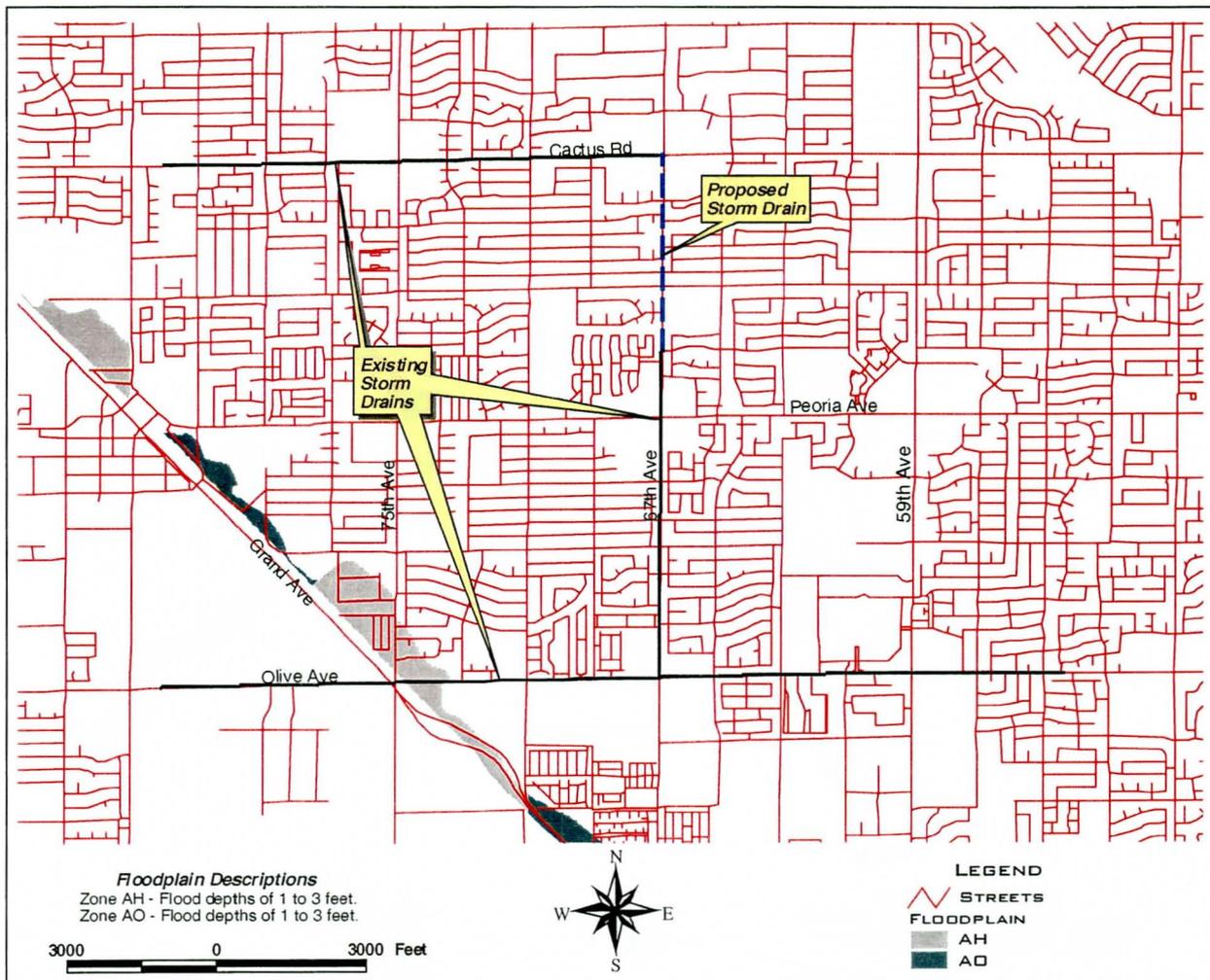
67th Avenue Storm Drain Project

P.M: Paul Stears, P.E.

(602)506-4768

pjs@mail.maricopa.gov

The Project being proposed by the City of Glendale will provide 10-year storm drainage protection for a three square mile area lying within jurisdictional boundaries of both the cities of Glendale and Peoria. The project will consist of drainage pipes and catch basins and will be constructed in rights-of-way provided by Glendale. The outfalls for the project were constructed by the District along Cactus Road and Olive Avenue and are presently owned and operated by the City of Peoria. There is a 50% cost sharing with the District for the project. The estimated cost for the project is \$3 million which includes the design, land acquisition, utility relocations, construction and construction management. Glendale will design and construct the project and provide for the operation and maintenance of the completed project.



Supervisor District: 4
Municipality: Glendale
Township/Range: T3N R1E S12, 13, 24; T3N R2E 6,7,18

PCN: 450.05.30



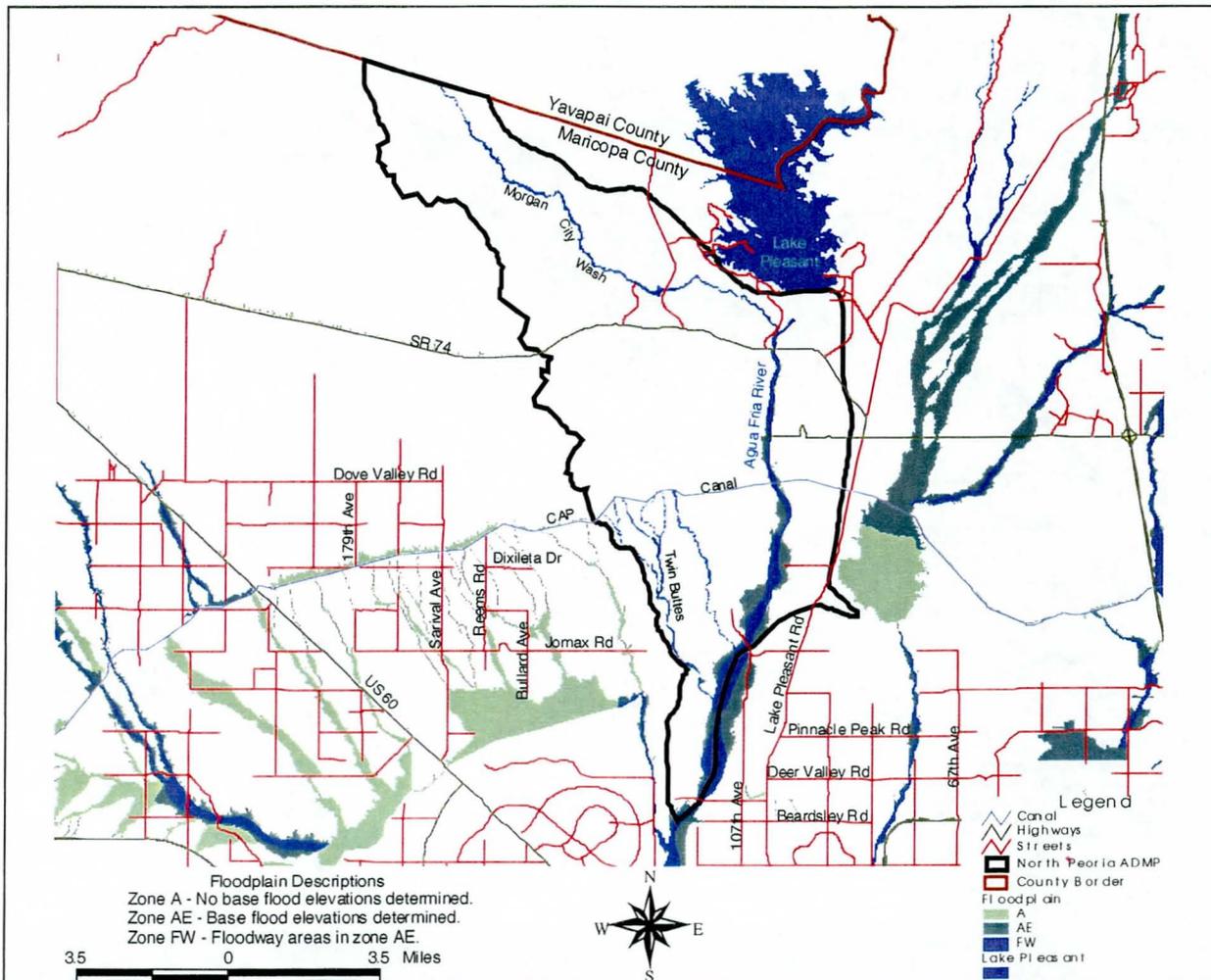
North Peoria ADMP

P.M: Marilyn DeRosa, R.G.

(602)506-4766

mdr@mail.maricopa.gov

The North Peoria ADMP study is a planning effort that will lay the groundwork for flood control activities in the largely unurbanized North Peoria area. The study's implementation plan will address potential flooding issues in the Morgan City Wash area and areas south of SR 74 and the CAP Canal with development guidelines, strategies, and policies. The goal is to minimize the need for future CIP expenditures by developing a drainage master plan for the City of Peoria and Maricopa County prior to urbanization. The planning study consists of providing professional engineering services necessary for developing a master plan to maintain the areas pre-development drainage characteristics. The study will include approximately 73 square miles of watershed from the Maricopa County line south to the Twin Buttes Wash and Agua Fria River confluence and from Lake Pleasant Road west to approximately Twin Buttes Wash and the Morgan City Wash southern watershed boundary. The study includes approximately 22.5 miles of floodplain delineation work and 40 miles of erosion hazard setback analyses. The study will be utilized as a tool to monitor and control development in the rapidly urbanizing watershed by the City of Peoria and Maricopa County and to maintain the areas pre-development drainage characteristics to the extent possible. The planning study is budgeted at \$1,328,000 and will be completed in FY 00/01. No design or construction CIP expenditures are expected to result from this study.



Supervisor District: 4
 Municipality: Peoria, Maricopa County
 Township/Range: T4,5,6N, R1W & R1E



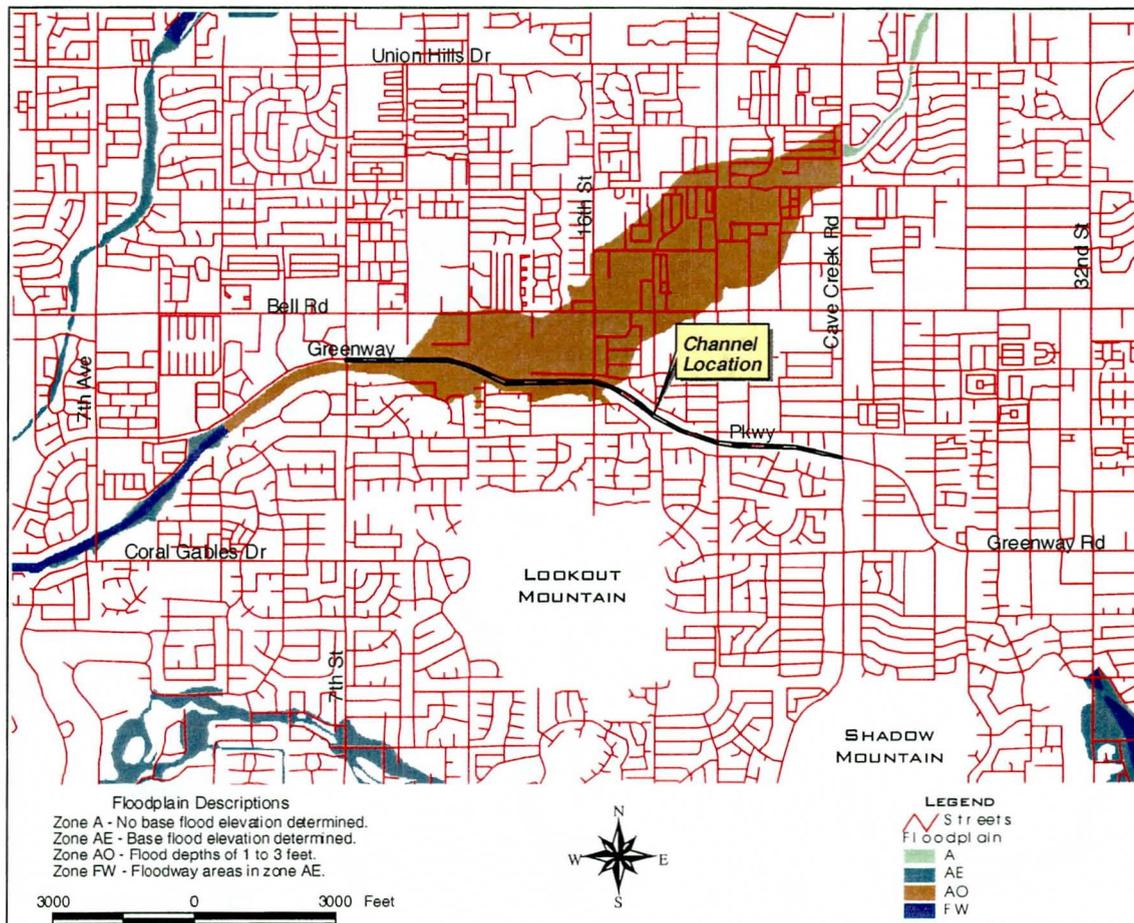
Greenway Parkway Channel

P.M: John Rodriguez, P.E.

(602)506-8782

jer@mail.maricopa.gov

The District and the City of Phoenix have collaborated in the design and construction of projects, consisting of basins, channels and storm drains, to collect and convey storm waters and to significantly reduce the 100-year floodplain on the Upper East Fork of Cave Creek. The City of Phoenix has also completed installation of additional basins and storm drains to convey storm water from the basins to the Greenway Parkway Channel. Engineering studies and analysis preparatory to the City of Phoenix submitting an application to FEMA for a Conditional Letter of Map Revision (CLOMR) for the East Fork of Cave Creek, have determined that certain modifications need to be made to the existing channel in order to meet FEMA criteria. Modifications include lowering the invert and widening the existing channel in various reaches between Cave Creek Road and Ninth Street. These modifications will allow for the removal of over 400 homes and numerous commercial establishments along Bell Road from the current FEMA delineated floodplain. The costs for this project are estimated to be \$4.5 million. The District will share 50% of the costs not to exceed \$2.25 million. The City of Phoenix will own, operate and maintain the completed project. A Section 404 permit has been obtained and construction by the City is scheduled to start by September 2000 and to be completed in approximately 6 months.



Supervisor District: 3
 Municipality: Phoenix
 Township/Range: T3N R3E S3,4



White Tanks #3 FRS Modifications

P.M: Tom Renckly, P.E.

(602)506-8610

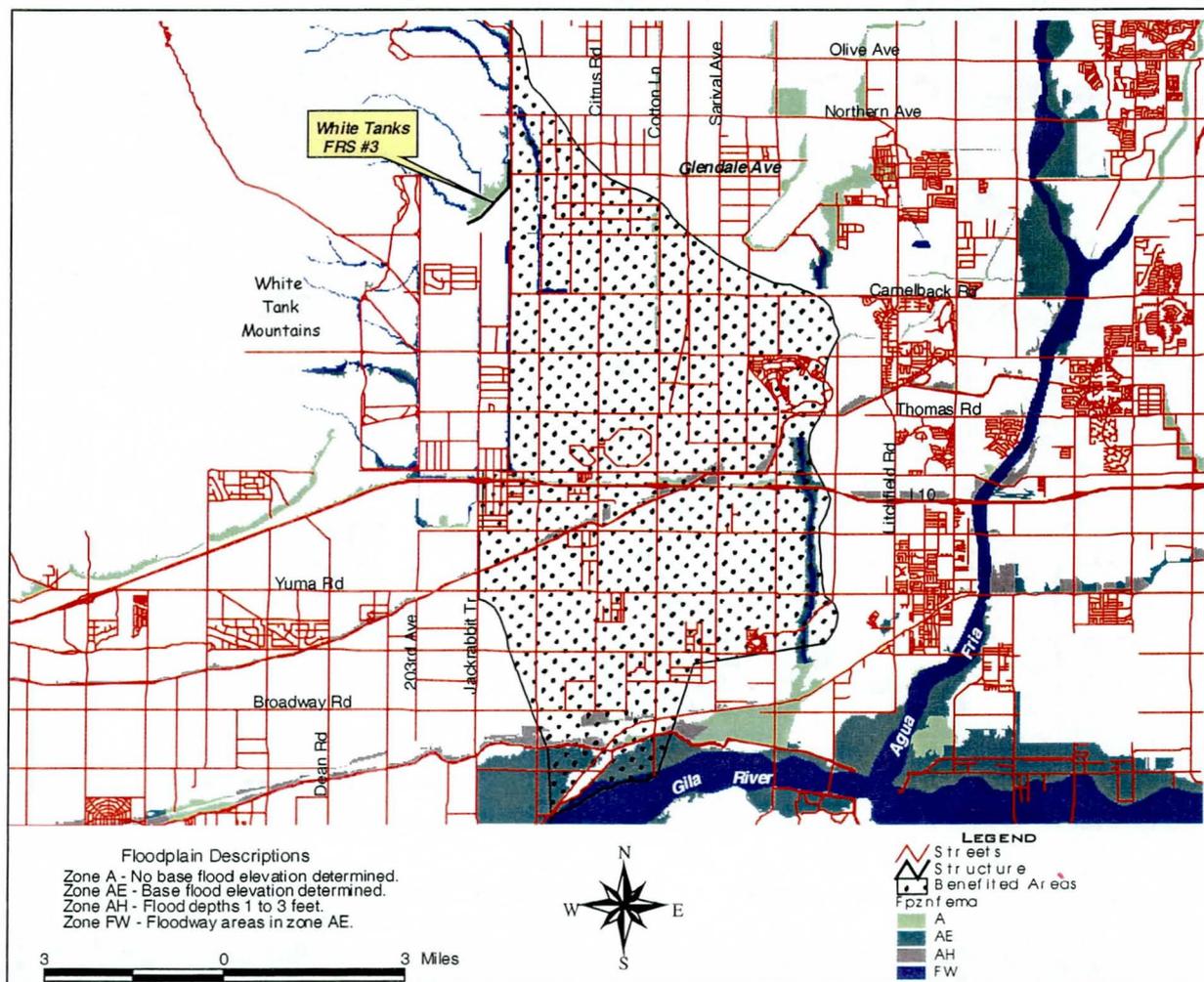
trr@mail.maricopa.gov

The White Tanks Flood Retarding Structure #3 (White Tanks #3), owned and operated by the District, requires corrective action to bring the structure into compliance with dam safety standards and requirements. Contract FCD 98-11 for the modification of White Tanks FRS#3 was awarded by the District on September 11, 1998. The Consultant has completed a detailed assessment of White Tanks FRS#3. The construction cost estimate for the 1996 Natural Resources Conservation Service (NRCS) plan to modify the dam for compliance with dam safety standards was estimated by the District in 1998 at \$ 1.9 million (total project cost \$2.6 million). The current construction cost estimate for required dam modifications is more than \$10 million.

The District is currently evaluating alternatives to the dam modification based on the significant long-term advantages anticipated to be provided by a large flood control basin or basin in combination with flood channels. Such a project would be designed to replace the 100-year flood protection function of the dam and the dam would be removed. Removal of the dam would: eliminate the high hazard dam classification and associated risk and liabilities, significantly reduce issues related to emergency spillway discharges and eliminate required dam monitoring and maintenance activities. In addition, the basin or basin/channel project would be designed to improve aesthetics and allow for multi-use activities.

Upon completion of the above described basin studies a resolution for the basin project will be developed and presented to the FCAB and BOD for approval of authority to proceed with final design of the basin project.

Concurrent with the planning studies, the District is proceeding with design and construction of interim corrective measures at the dam. Such measure will address the more immediate issues of dam safety during the period in which the permanent solution is being authorized and implemented.





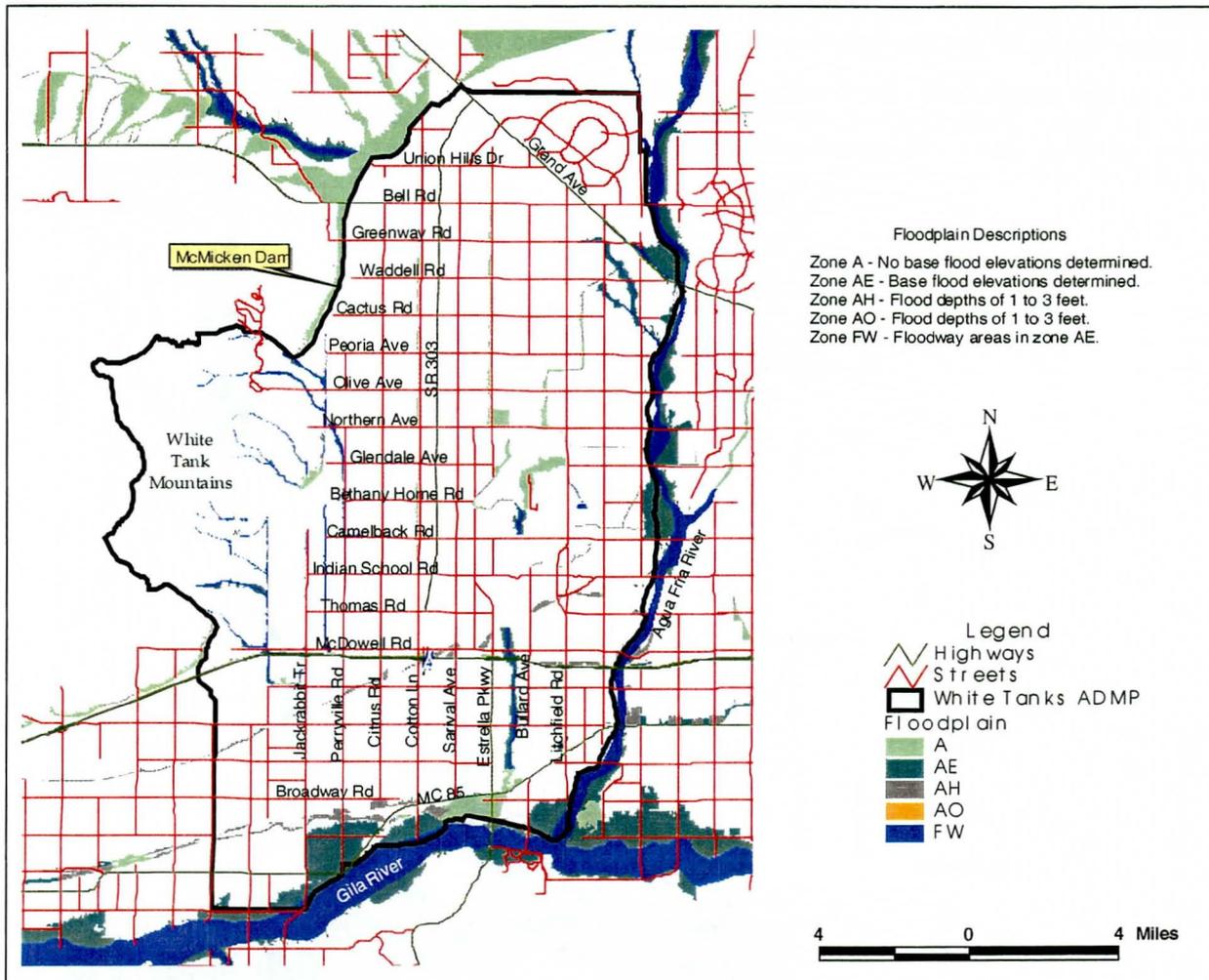
Loop 303 Corridor/White Tanks ADMP Update

P.M: Gregory Jones, P.E.

(602)506-5537

glj@mail.maricopa.gov

Current and projected District CIP expenditures can be divided into two parts: a planning study that will lay the groundwork for further flood control activities; and a design and construction phase that will address flooding issue. The planning study consists of providing professional engineering services necessary for developing an updated area drainage master plan to determine guidelines for stormwater management and mitigate flooding for the White Tanks Area. The study will include analysis of approximately 220 square miles of watershed from the McMicken Dam south to Gila River and from the White Tank Mountains east to the Agua Fria River. The study will identify drainage problems, update the existing hydrology due to development and new hydrologic methodology, and develop cost effective solutions for a storm water collection and disposal system and will further identify potential outfall alternatives. The planning study is budgeted at \$1.3 million and is included in the CIP. The design and construction phase will involve the implementation of solutions identified in the study once this planning and conceptual design phases have been completed, and remedial actions have been specified. Total expenditures in the CIP are now tentatively estimated at \$400 million.



Supervisor District: 4,5

Municipality: Avondale, Buckeye, El Mirage, Glendale, Goodyear, Litchfield Park, Surprise
 Township/Range: T3N/R2W; T3N/R1W; T4N/R2W; T4N/R1W/ T3N/R3W; T2N/R3W-R1W;
 T1N/R3N-R1W; T1S/R3W; T1S/R2W

PCN: 470.10.31



Reems Road Channel Project

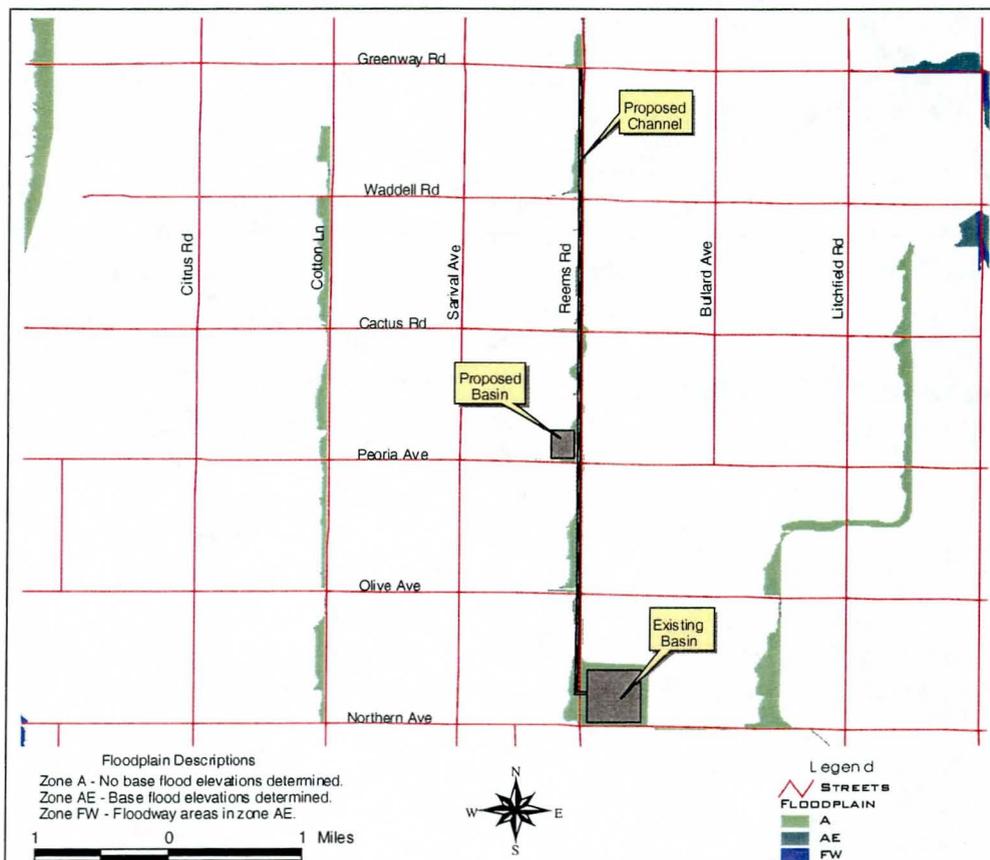
P.M: Gregory Jones, P.E.

(602)506-5537

glj@mail.maricopa.gov

The Reems Road Storm Drainage Project was submitted by the City of Surprise for inclusion in the District's 2000-2001 CIP Prioritization Procedure. The proposed project included the construction of a channel along Reems Road to convey offsite drainage, for the 100-year storm water event to the Dysart Basin. Reems Road currently carries a majority of the storm water within the roadway prism, however large flows will overtop and breakout of the existing farm berms adjacent to the roadway and flow across the farmland in a southwesterly direction. The project would protect one arterial roadway, three collector roadways, the City's wastewater treatment plant, and various utilities. Additionally, this project was identified in District's White Tanks Area Drainage Master Plan.

The District intends to cost-share the Reems Road Storm Drainage Project. As a component to the project, the outfall to the Dysart Basin may be done in phasing, due to the lack of an identified partner south of Peoria Avenue. The Project may include upgrades to the Dysart Basin and/or upgrades to the inlet channels to the Dysart Basin, and/or additional detention basins. The Project is currently being refined and is included in all of the Recommended Alternatives from the ongoing Loop 303/White Tanks AMDP Update Study. Total expenditures, but not included in the CIP, are now tentatively estimated at \$8 million for this project.



Supervisor District: 4

Municipality: Glendale, Surprise

Township/Range: Township 1 North, Range 1 West, Sections 1, 2, 11, 12, 13, and 14.

Township 1 North, Range 1 East, Sections 3, 4, 5, 7, 8, 9, 10, 15, 16,
and 18

PCN: 470.12.31



Rittenhouse Road Channel Project

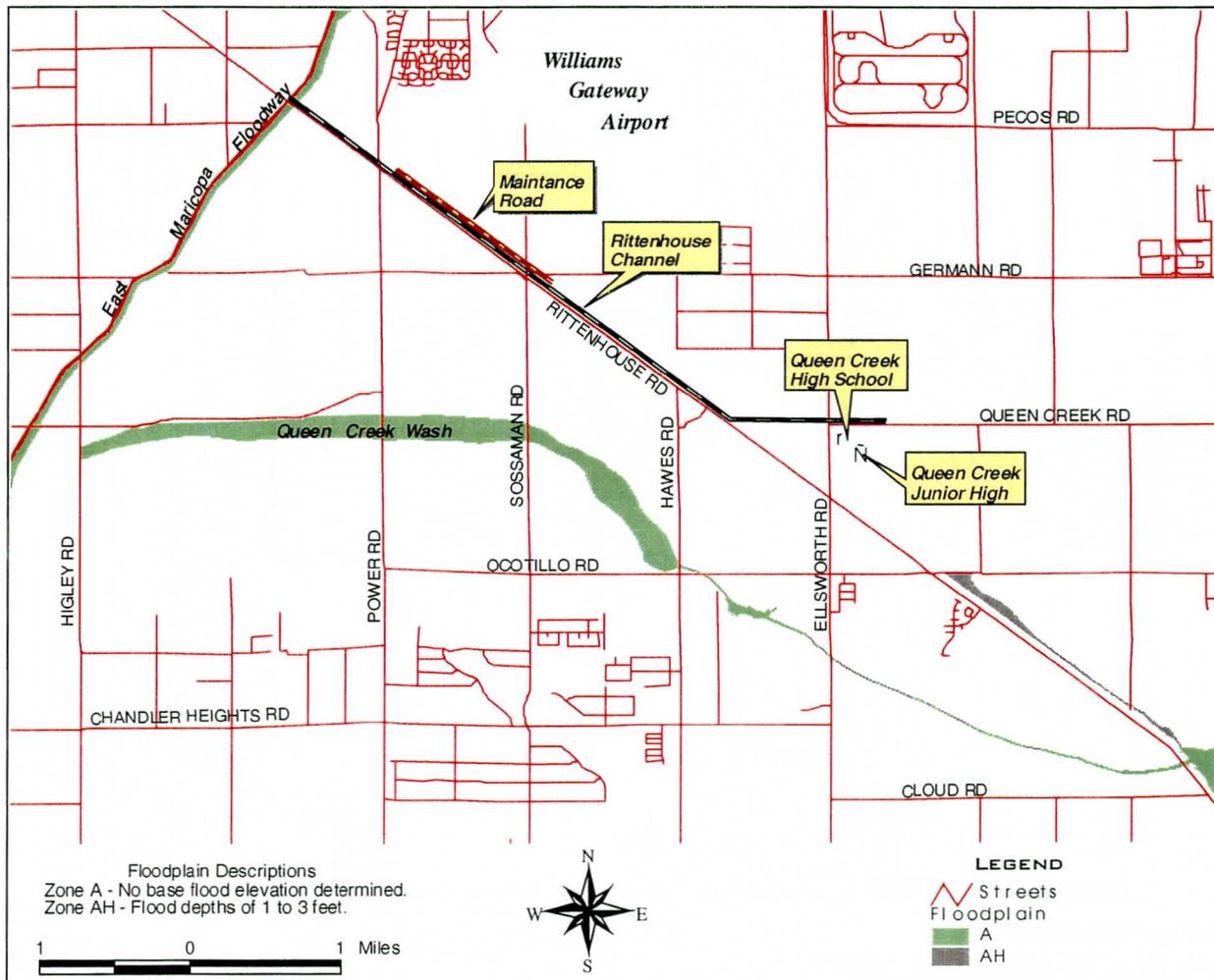
P.M: John Palmieri, SR/WA

(602)506-4875

jpp@mail.maricopa.gov

This project was completed in October, 1998 and consisted of an earthen channel adjacent to the Union Pacific Railroad between the Queen Creek School east of Ellsworth Road, and the East Maricopa Floodway, west of Power Road. The six mile long project includes portions in Queen Creek, Mesa, and Gilbert. The channel provides 100-year protection for the school, contained the FEMA 100-year floodplain, and provides an outfall for future storm drain construction. The District is responsible for the operation and maintenance of the Project.

Subsequent to the completion of the Project, the Operation & Maintenance Division of the District requested the land acquisition of a 20-foot strip of real property on the north bank of the completed Project for a Maintenance Road in the vicinity of Germann Road to Pecos Road. The Land Management Division of the District has estimated the cost of the required four parcels at a total value of \$102,200 for fiscal year 00/01.



Supervisor District: 1
 Municipality: Queen Creek
 Township/Range: T2S R7E Sections 6 & 8

PCN: 480.01.31



Queen Creek Channelization

P.M: Paul Stears, P.E.

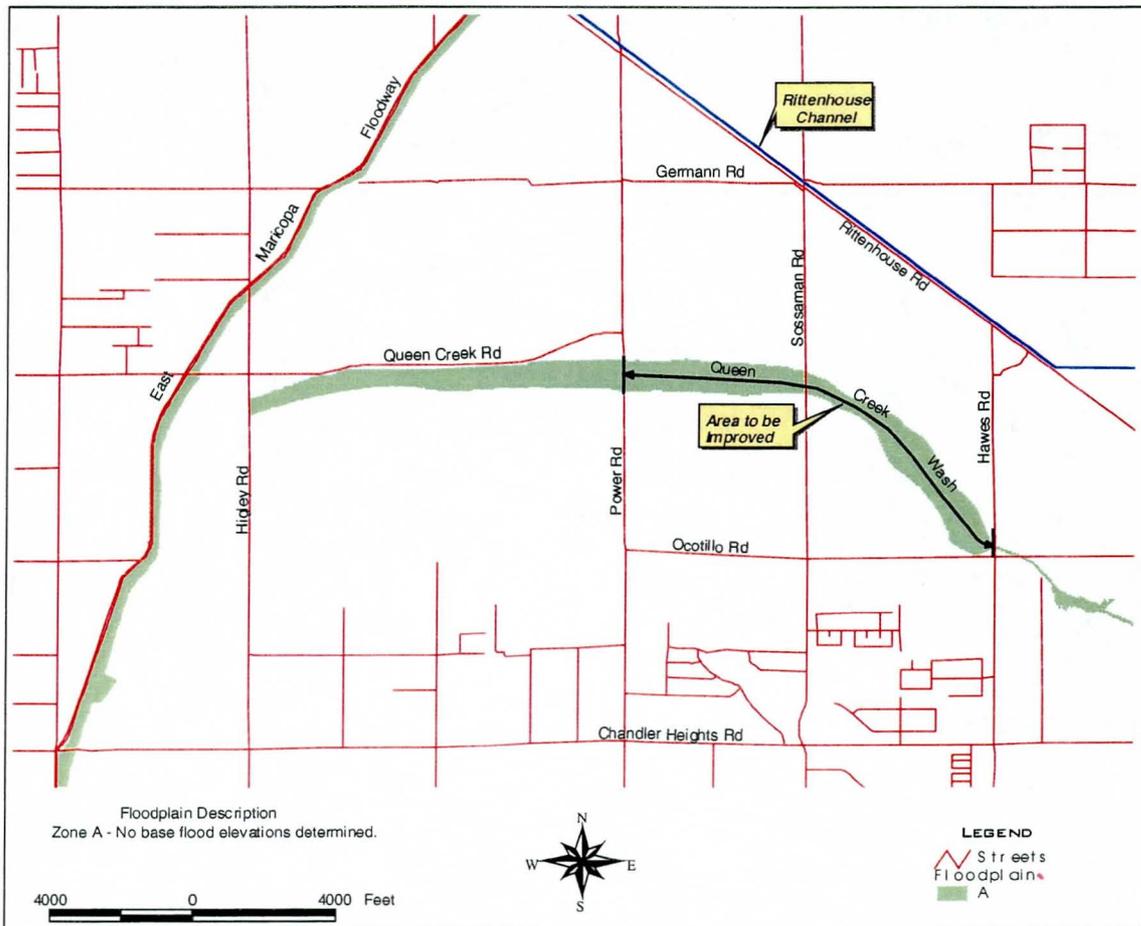
(602)506-4768

pjs@mail.maricopa.gov

The proposed plan is to channelize Queen Creek Wash from Hawes Road northwesterly to Power Road for a distance of approximately two and one half- (2.5) miles.

Based on the Flood Insurance Study on Queen Creek Wash, there are areas of significant breakouts particularly along the north bank of this reach of the wash. The most feasible solution for preventing the breakouts from occurring along Queen Creek Wash in this area is to increase the cross section of the wash to contain the 100-year flows. This Project consists of channel construction and improvement of the Sossaman Road Crossing.

The Town will be the lead agency for design, rights-of-way acquisition, utility relocation, construction, construction management and operation and maintenance of the Project. The Town is to complete all the phases of the Project. The District shall review and approve the design plans and the bid and construction documents prior to bid. The District shall also approve any future landscape amenities to assure hydraulic conveyance within the Project. The total cost of the project is estimated at \$6.0 million with District's contribution of \$2.42 million for this project.



Supervisor District: 1
Municipality: Queen Creek
Township/Range: T2S, R7E, Section 7, 17, 18

PCN: 480.02.31



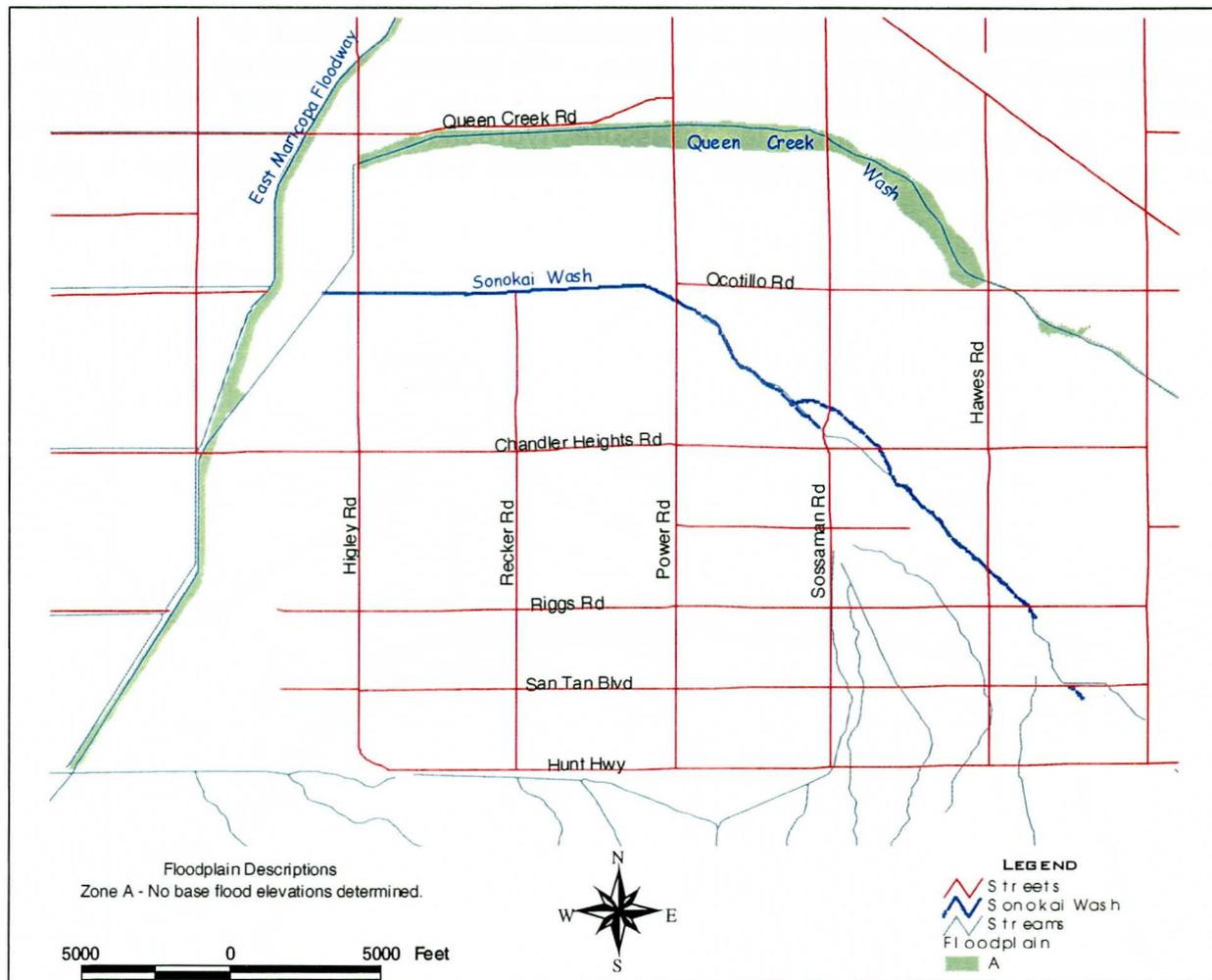
Sanokai Wash Channelization

P.M: Tim Phillips, P.E.

(602)506-4718

tsp@mail.maricopa.gov

The planning study of Queen Creek and Sanokai Wash Hydraulic Master Plan consisted of developing a master plan to maintain the hydraulic conveyance capacity of both Queen Creek and Sanokai Wash. The Sanokai Wash was analyzed from Ellsworth Road and Riggs Road to its outfall into Queen Creek. Channelization of the Sanokai Wash is part of the alternative analysis. Developers will construct portions of Sanokai Wash and the remaining portions will be completed by the District jointly with local jurisdictions.



Supervisor District: 1

PCN: 480.04.31

Municipality: Queen Creek, UMC

Township/Range: T2S r6E, Sections 22,23,24; T2S R7E, Sections 19,29,33,34,35



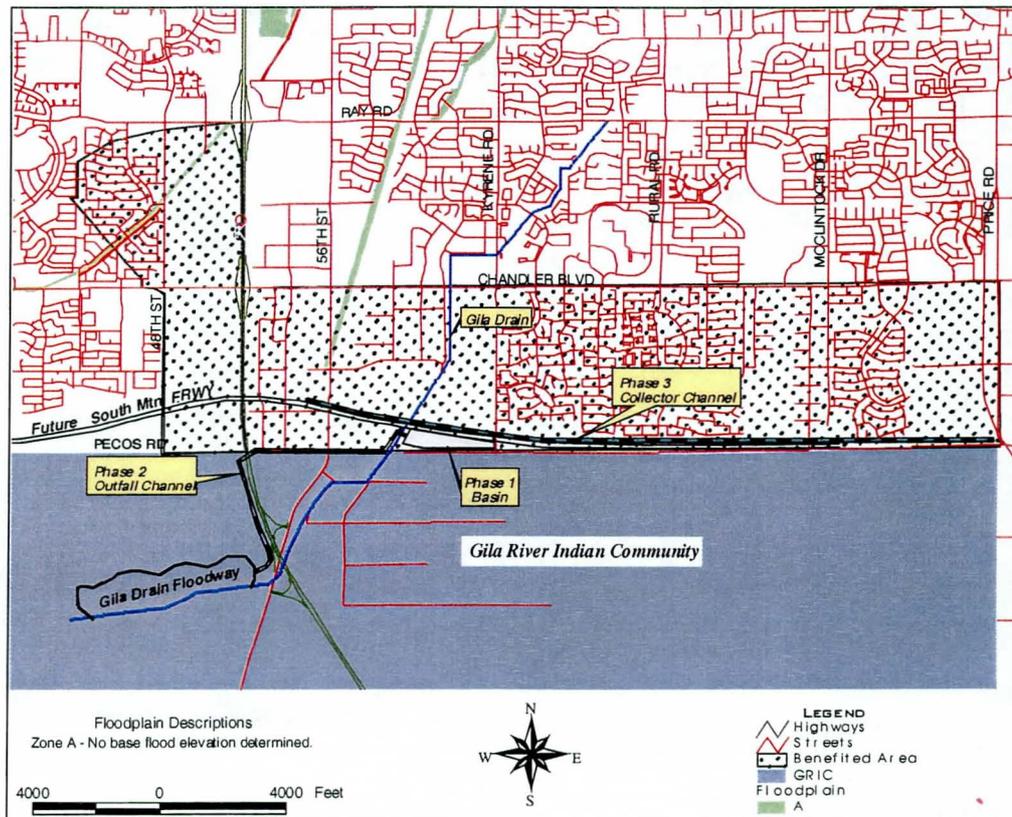
S.E. Valley Regional Drainage System

P.M: Don Rerick, P.E.

(602)506-4878

djr@mail.maricopa.gov

An IGA between the City of Chandler, ADOT, and FCD is in place for this project. The Southeast Valley Regional Drainage System (SEVRDS) includes a 100-year drainage system to be built within the Santan Freeway corridor between Price Road, on the east, and 56th Street, on the west. A connecting channel will extend from the basin and wetlands complex near Kyrene Road and the Pecos Road alignment to the Gila Drain Floodway west of Interstate-10. When combined with contributing flows from the Price Freeway drainage system (south of Ray Road), the SEVRDS will intercept and convey municipal and freeway drainage from 58 square miles in Chandler, Tempe, Gilbert and Maricopa County. The project will also protect areas of the Gila River Indian Community (GRIC) located south of Pecos Road and west of Price Road from flows originating from outside the Community. The SEVRDS is addressed in the Gilbert/Chandler ADMS and is an integral component of Chandler's storm water master plan. The design concept was developed in cooperation with Chandler, ADOT, SRP and the GRIC. The total cost of the project is estimated at more than \$30 million, of which the District will pay \$12 million and Chandler will pay \$955,000. The project is being designed and constructed in three phases. ADOT has acquired necessary rights-of-way and has connected the design. They will also own, operate and maintain the completed project. The District is providing construction management services for the three phases of the project. ADOT will fund all associated costs in excess of Chandler and FCD funding. Phase 1, the basin complex, has been constructed, Phase 2, consisting of the basin outfall channel system has also been constructed, and Phase 3, the collector channel system is under construction and scheduled for completion in January, 2001.



Supervisor District: 1,5
 Municipality: Chandler, Gila River Indian Community
 Township/Range: T1S R4E S32-36; T2N R4E S4-5

PCN: 490.01.32
 490.01.33



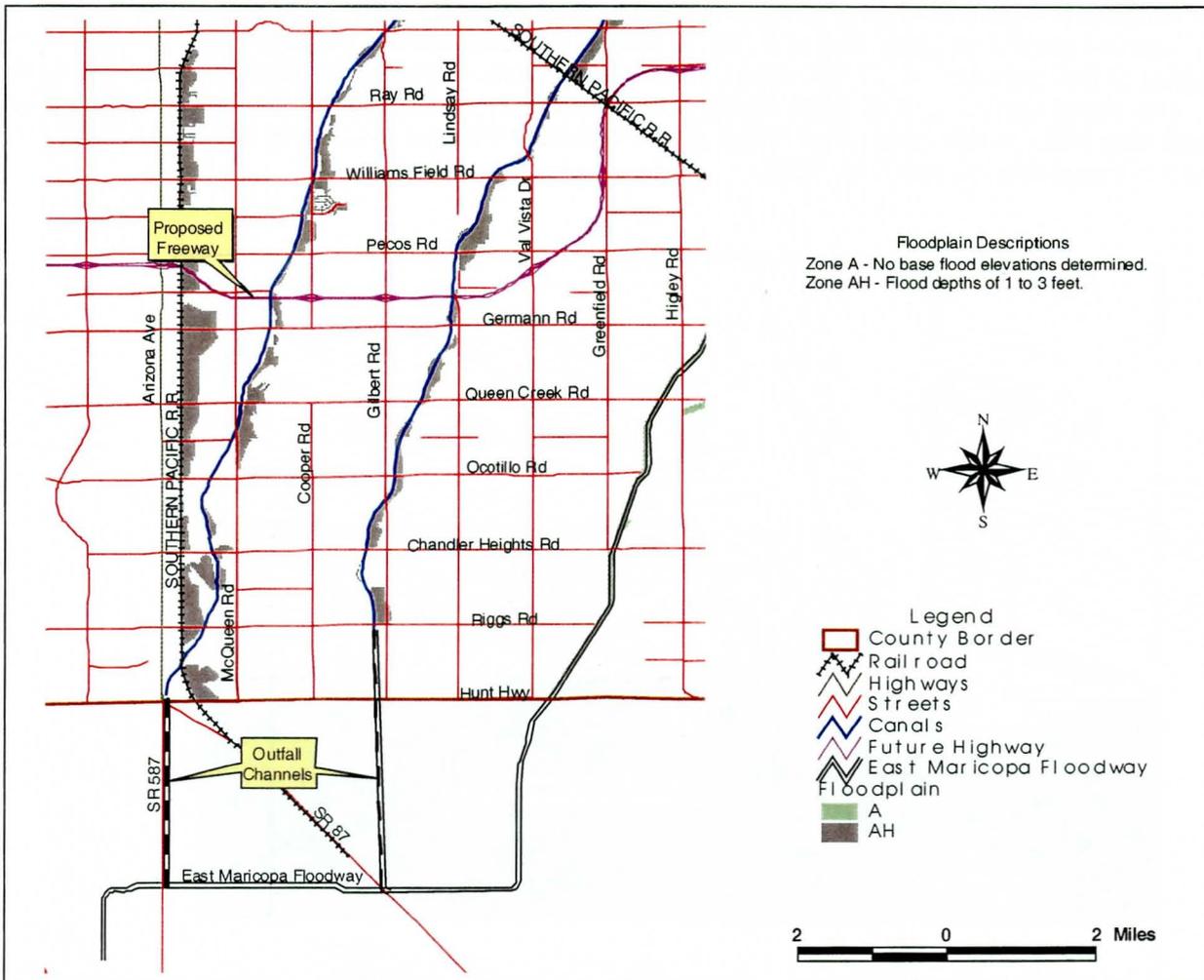
Higley Outfall Channel

P.M: Tim Phillips, P.E.

(602)506-4718

tsp@mail.maricopa.gov

The Higley Outfall Channel is a project that was identified in the Higley Area Drainage Master Plan. The Higley ADMP has identified features to mitigate the flooding along Eastern Canal, the Consolidated Canal, and the Southern Pacific railroad adjacent to Arizona Ave. as well flooding west of these features caused by possible overtopping of the canal or railroad from runoff generated within the study area. The ADMP effort also looked at identifying outfall alternatives where natural outfalls do not exist. Runoff reaching the Eastern and Consolidated Canals accumulates along the upstream face of the embankments and is diverted southerly. The Higley Outfall Channel will convey flood flows across the Gila River Indian Community southerly to the East Maricopa Floodway. The total expenditures for the Outfall Channel are estimated at \$11.4 million.



Supervisor District: 1
 Municipality: Chandler, Gilbert, Mesa
 Township/Range: T2S R6E 36; T3S R6E 1, 12

PCN: 491.01.31



Warner-Greenfield Park Basin

P.M: Afshin Ahouraiyan

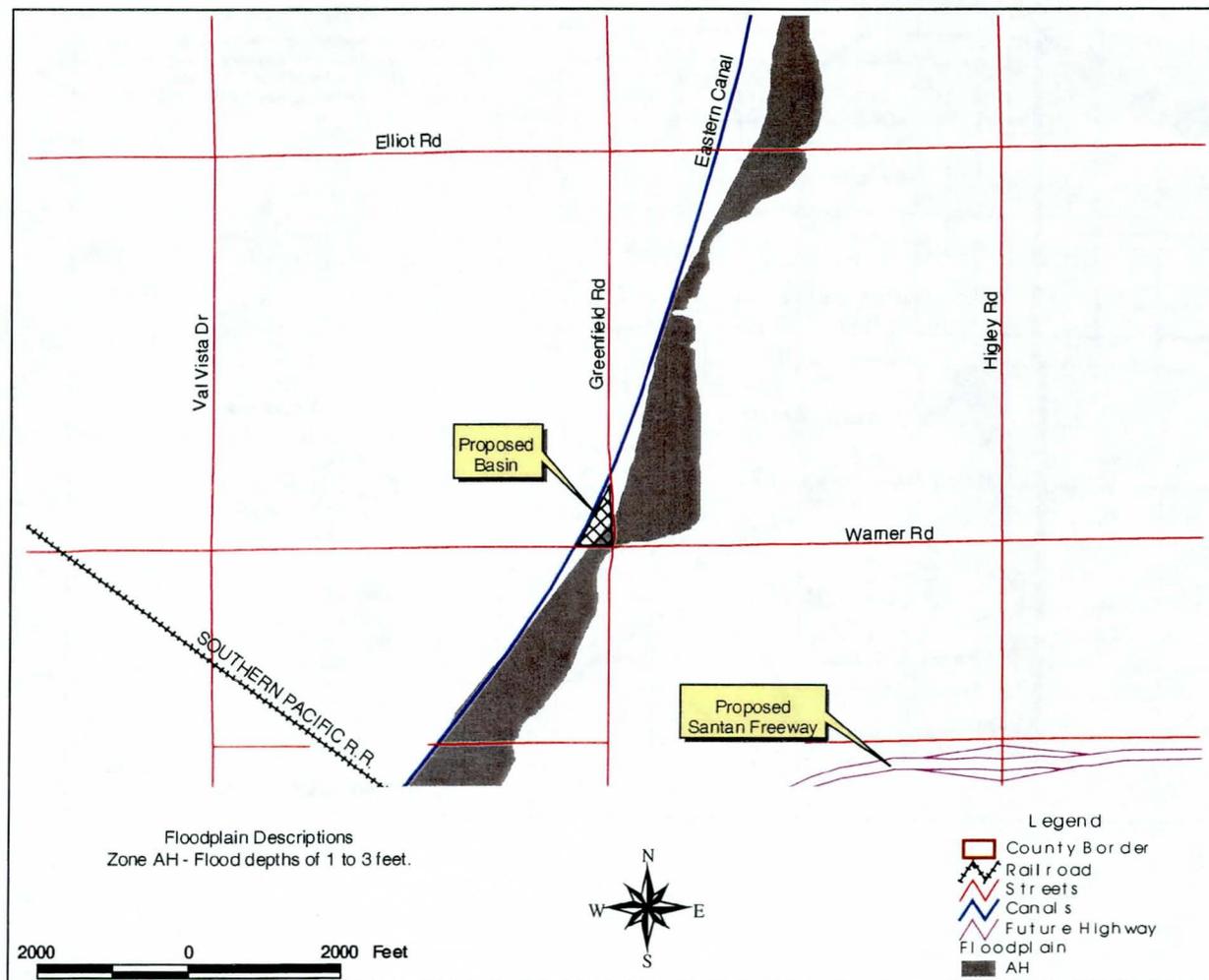
(602)506-4519

afa@mail.maricopa.gov

The project site is 1.8 acres in size and is bounded by the SRP Eastern Canal on the west, Greenfield Road on the east and Warner Road on the south. The property is within a mapped 100-year floodplain caused by ponding and flows along the Eastern Canal.

This site can accommodate passage of flows along the eastside of the canal to the Crossroads Park Basin. The Higley Area Drainage Master Plan has identified the need for a conveyance corridor through this property.

The total project is estimated at \$330,000 with the District's contribution of \$165,000. The Town is to acquire the 1.8-acre parcel and remove any and all property improvements and will own, operate, maintain, and secure the property at no cost to the District. The Town is also responsible to fund any recreational improvements to the property.



Supervisor District: 1
Municipality: Gilbert
Township/Range: T1S R6E Section 16

PCN: 491.02.31



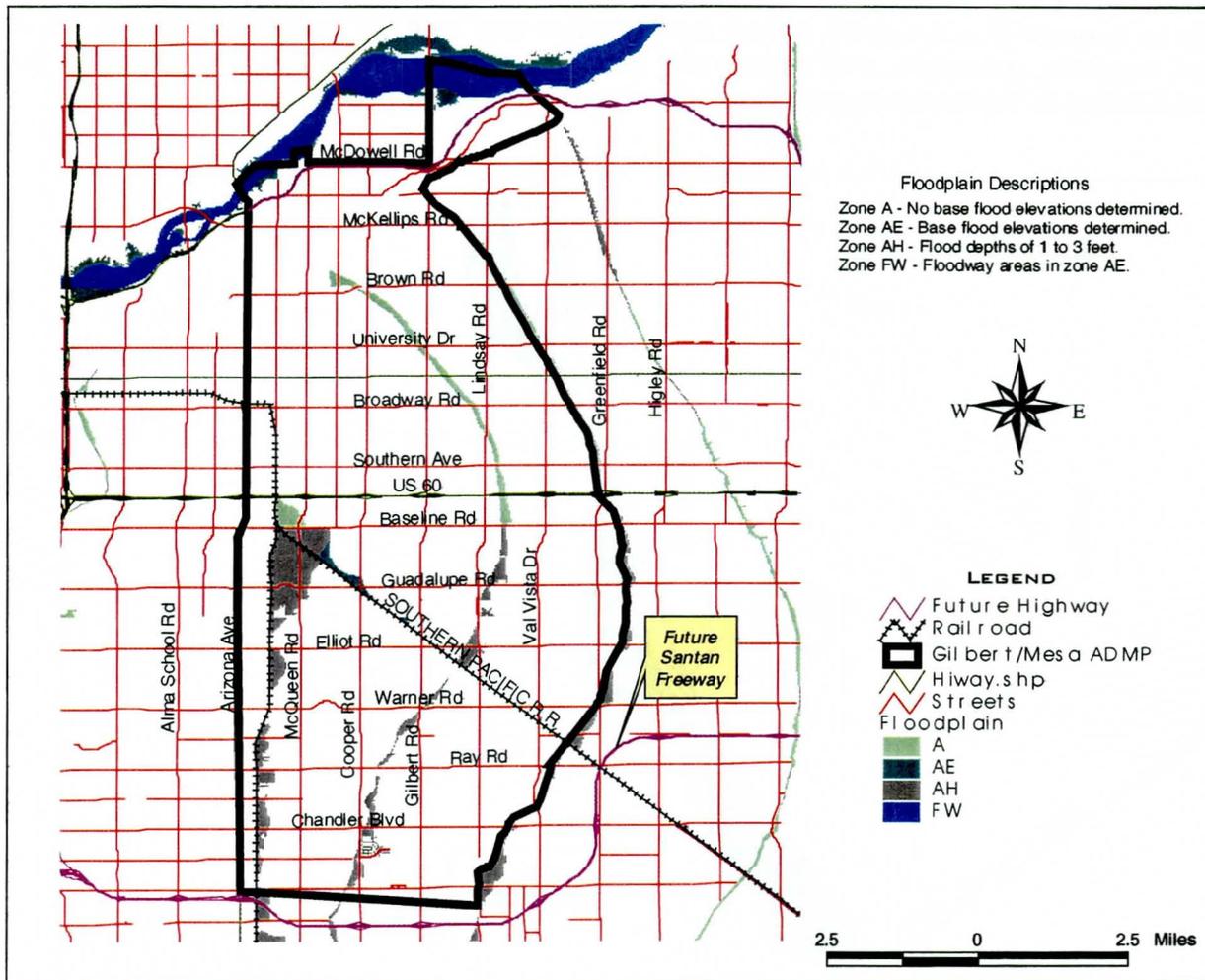
Gilbert/Mesa ADMP

P.M: Tim Phillips, P.E.

(602)506-4718

tsp@mail.maricopa.gov

This study was identified and prioritized within the District's Area Drainage Master Plan program. The program was initiated in 1985. The studies consist of hydrologic and engineering studies, which identify flooding hazards and establish recommended plans to mitigate the flooding hazards. The study boundaries are the Eastern Canal to the east, S.R. 87 to the west, Salt River to the north, and the proposed San Tan Freeway to the south for an approximate area of 59 square miles.



Supervisor District: 1,2

Municipality: City of Mesa, City of Chandler, Town of Gilbert; UMC **PCN: 492.xx.xx**

Township/Range: T2N R6E, Sections 31-32; T1N R5E, Sections 1-3, 10-15, 22-27, 34-36; T1N R6E, Sections 6,7,28-33,17-21; T2S R5E, Sections 1-3; T2S R6E, Section 6; T1S R7E, Sections 7,18,19,30; T1S R6E, Sections 3-10, 15-21, 29-32; T1S R5E, Sections 1-3, 10-15, 22-27, 34-36



Adobe Dam ADMP

P.M: Doug Williams, P.E.

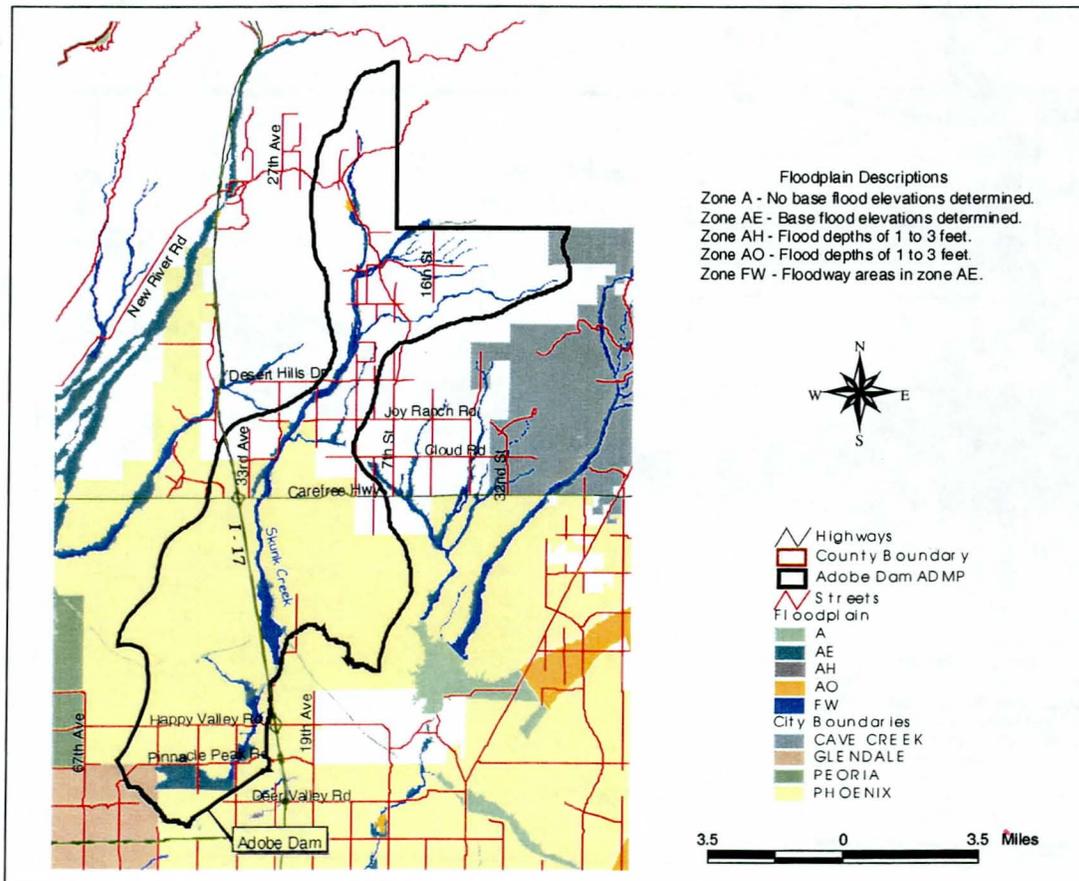
(602)506-8743

daw@mail.maricopa.gov

The purpose of the Adobe Dam Area Drainage Master Plan (ADMP) is to identify flooding risks and establish prudent policies the existing Adobe Dam ADMP area. The study will be done to quantify the extent of flooding problems, incorporate existing drainage structures into the model and develop alternative solutions to flooding problems for the entire Adobe Dam Watershed. In addition, successful implementation of the Skunk Creek Watercourse Master Plan (WCMP) is dependent upon prudent and ongoing management of the watershed through the Adobe Dam ADMP.

The Adobe Dam ADMP will also link management of the watershed to implementation of the Skunk Creek WCMP. The Adobe Dam ADMP will provide a tool to assess proposed development and identify existing and future public safety problems and recommend solutions. The Adobe Dam ADMP will provide the critical link between the Skunk Creek WCMP and the watershed to assure effective floodplain management.

The two major objectives of the study are to develop a plan to control runoff to prevent flood damage within the watershed, and to mitigate the potential increase in runoff due to development and to preserve the ability of Skunk Creek to convey storm water. This must be accomplished while providing protection to lands downstream and maintaining the non-structural implementation strategy established in the Skunk Creek WCMP. The approximate watershed area is 73 square miles. The planning study is budgeted at \$800,000 and is included in the CIP budget allocation of \$300,000 for FY 2000/2001, \$300,000 for FY 2001/02, and \$200,000 for FY 2002/2003.



Supervisor District: 3,4
 Municipality: Phoenix, UMC
 Township/Range: T4N R3E

PCN: 520.02.01



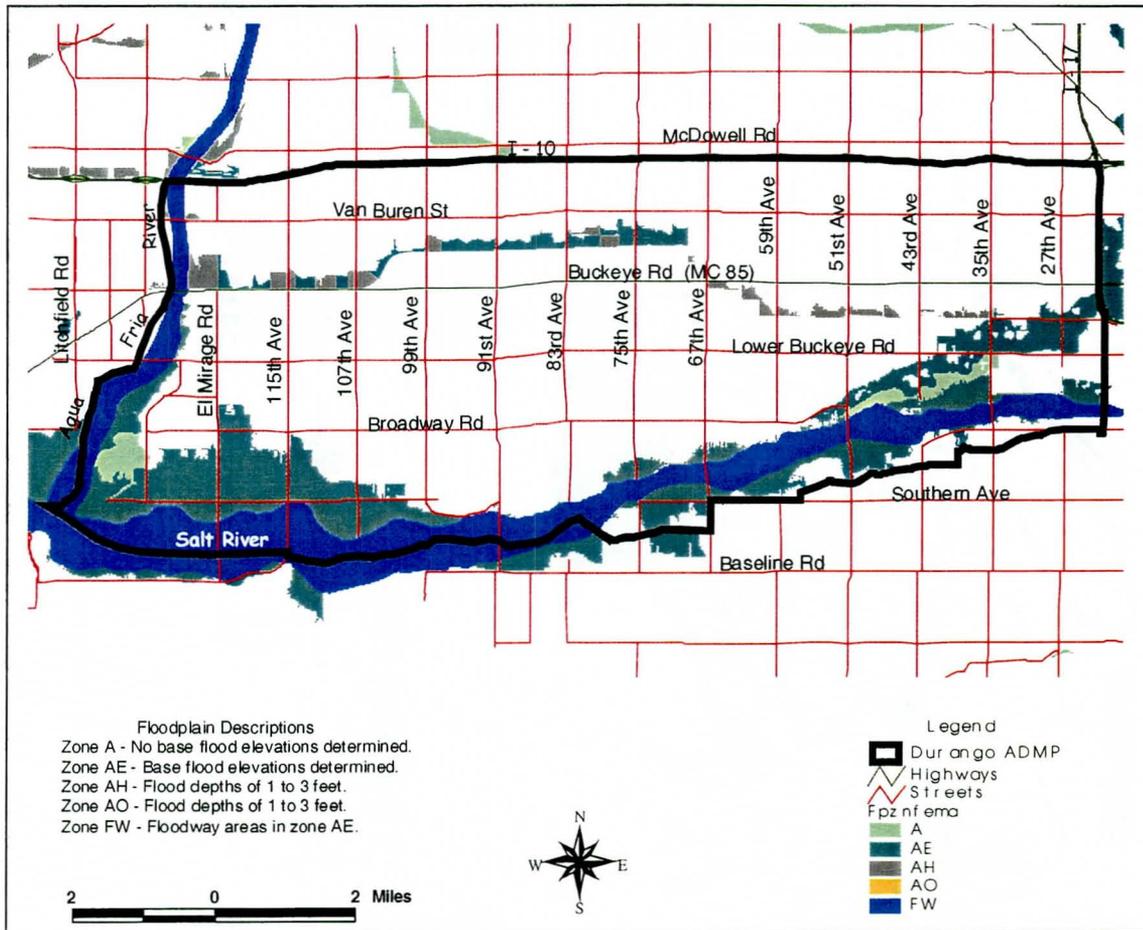
Durango ADMP

P.M: Gregory Jones, P.E.

(602)506-5537

glj@mail.maricopa.gov

Current and projected District CIP expenditures can be divided into two parts: a planning study that will lay the groundwork for further flood control activities; and a design and construction phase that will address flooding issue. The planning study consists of providing professional engineering services necessary for developing an area drainage master plan to determine guidelines for stormwater management and mitigate flooding for the Durango Study area. The study will include analysis of approximately 68 square miles of watershed which extends from I-10 south to the Salt/Gila Rivers, and from approximately 27th Avenue west to the Agua Fria River. The study will identify drainage problems, update the existing hydrology due to development and new hydrologic methodology, and develop cost effective solutions for a storm water collection and disposal system and will further identify potential outfall alternatives. The planning study is budgeted at \$ 1.1 million dollars and is included in the CIP Budget for FY 00/01 and 01/02. The design and construction phase will involve the implementation of solutions to flooding that are identified once the planning and conceptual design phases have been completed, and remedial actions have been specified. Total expenditures in the CIP are now estimated at \$110 million for identified projects which includes the costs for the Durango Regional Outfall Project.



Supervisor District: 4,5
 Municipality: Avondale, Phoenix, Tolleson
 Township/Range: T1N/R1W; T1N/R1E; T1N/R2E

PCN: 565.02.31



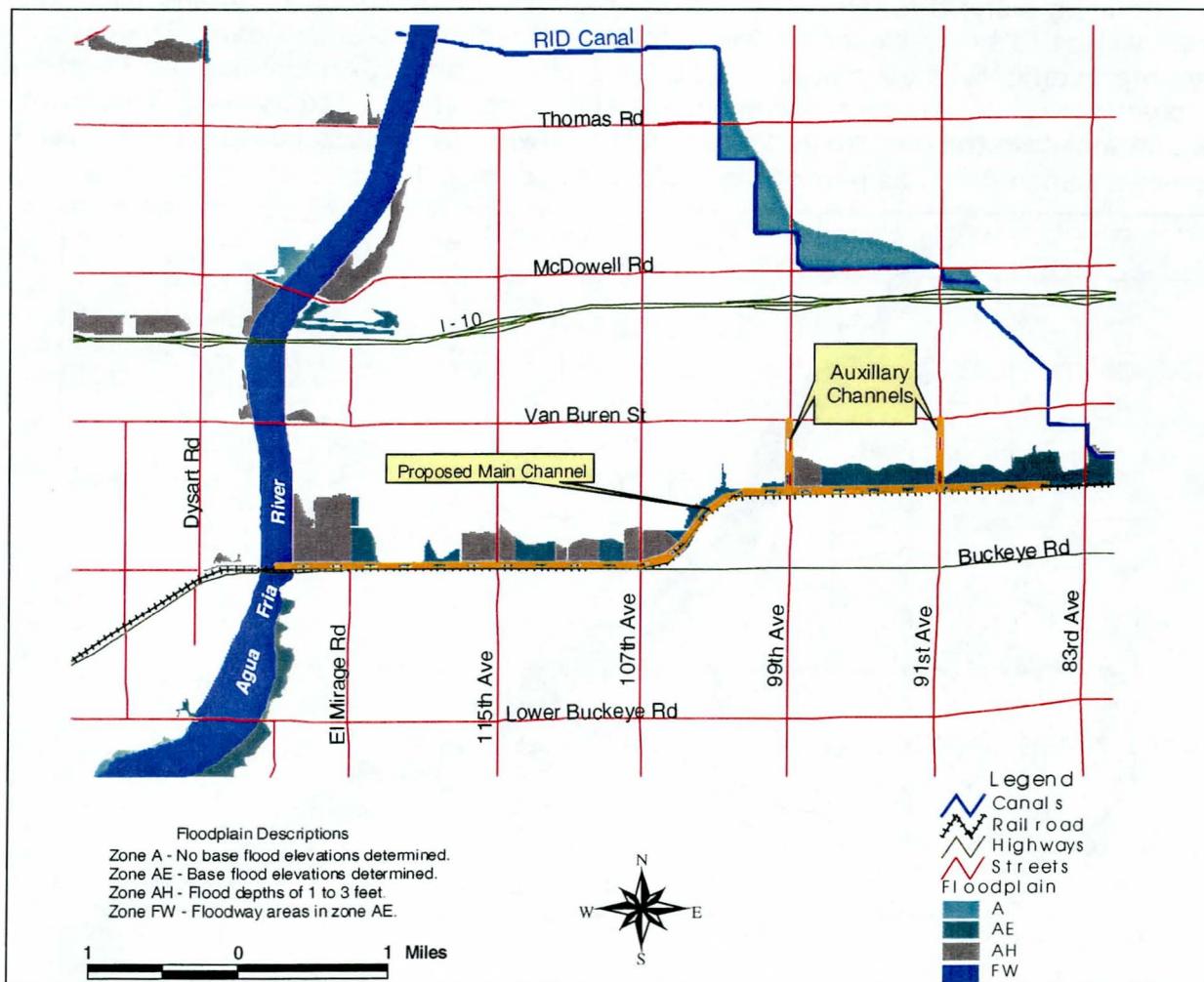
Durango Regional Outfall Project

P.M: Gregory Jones, P.E.

(602)506-5537

glj@mail.maricopa.gov

This project consists of a principle outlet channel located north of the Union Pacific Rail Road (just north of MC 85) from approximately 85th Avenue westward to the Agua Fria River. Additionally, the project will include three basins and two auxiliary channels. The auxiliary channels located on 91st Avenue and 99th Avenue will intercept and divert the storm water runoff, which accumulated and floods Van Buren Street. The Basins will be sited along the principal channel to reduce the storm water peak. The design and construction of the project is estimated to cost 13 million dollars. Currently the project has funding for \$4.1 million dollars and is included in the CIP Budget for FY 00/01, 01/02, and 02/03.



Supervisor District: 4,5

Municipality: Avondale, Tolleson

Township/Range: Township 1 North, Range 1 West, Sections 1, 2, 11, 12, 13, and 14.

Township 1 North, Range 1 East, Sections 3, 4, 5, 7, 8, 9, 10, 15, 16, & 18

PCN: 565.03.31



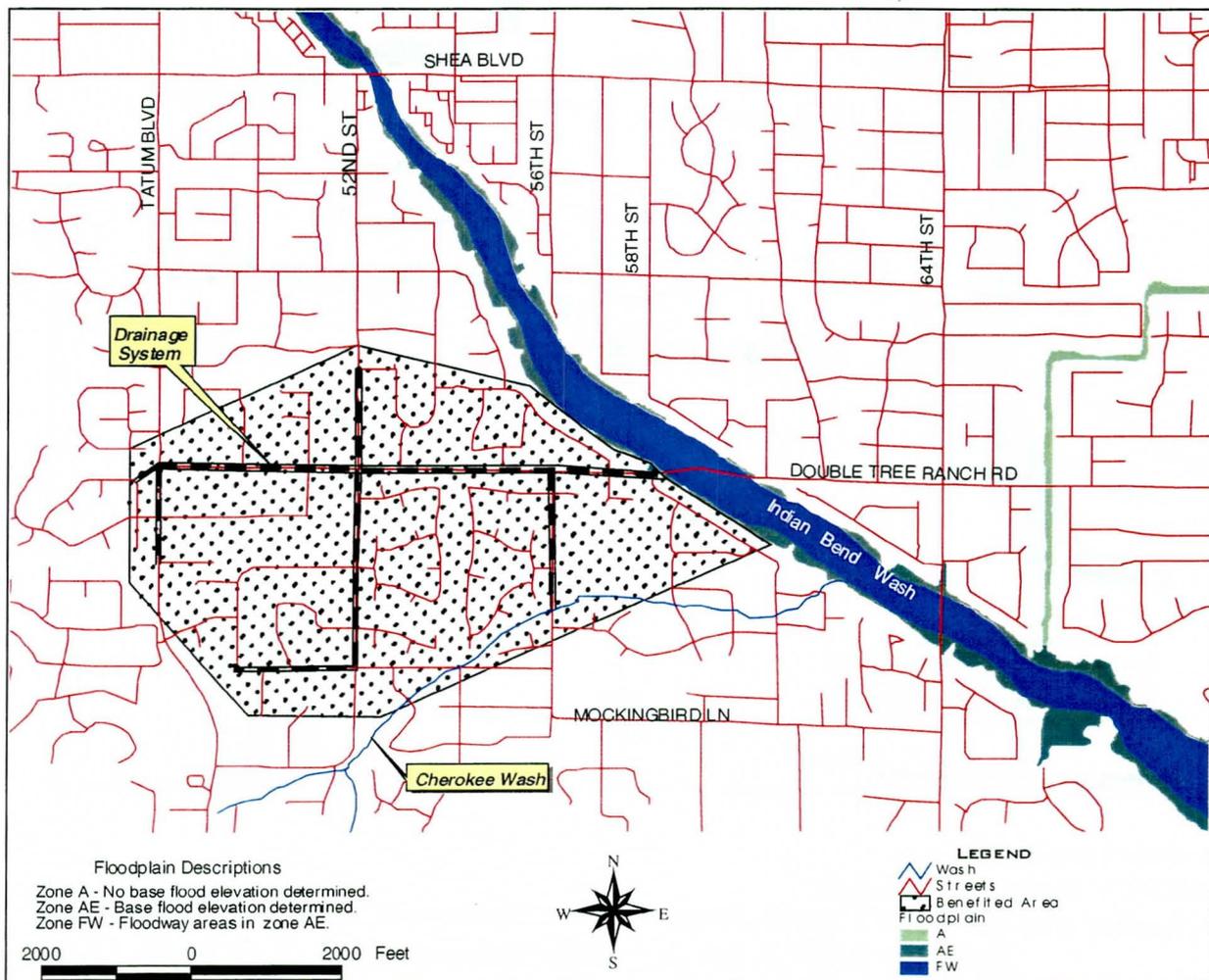
Doubletree Ranch Road System

P.M: Scott Vogel, P.E.

(602)506-4771

csv@mail.maricopa.gov

This project will provide solutions for the flooding problems that exist within a mostly built out residential area in the Town of Paradise Valley. Several homes along Doubletree Ranch Road have experienced flooding during recent storms, and children have been stranded at a local grade school, whose access becomes inaccessible during heavy rains. Two major watersheds, Doubletree Ranch Road and Cherokee Wash, exist within the project area. The Doubletree Ranch Road watershed begins in the Phoenix Mountain Preserve west of Tatum Boulevard and flows eastward along Doubletree Ranch Road to Indian Bend Wash. Cherokee Wash, which is located south of the Doubletree Ranch Road watershed, also begins in the Phoenix Mountain Preserve west of Tatum Boulevard, but then flows northeast to Indian Bend Wash. The project consists of a 10-year storm drain system in Doubletree Ranch Road, with storm drain laterals extending along the adjacent streets. In addition, surface flows greater than the 10-year flows will be to be conveyed on the surface of Doubletree Ranch Road. The cost of the drainage improvements is estimated at \$11.4 million. A draft IGA identifies the District lead in the construction, construction management and rights-of-way acquisition. The Town will operate and maintain the constructed facility. The Town may elect to construct improvements to Doubletree Ranch Road, as part of the project, at Town cost.





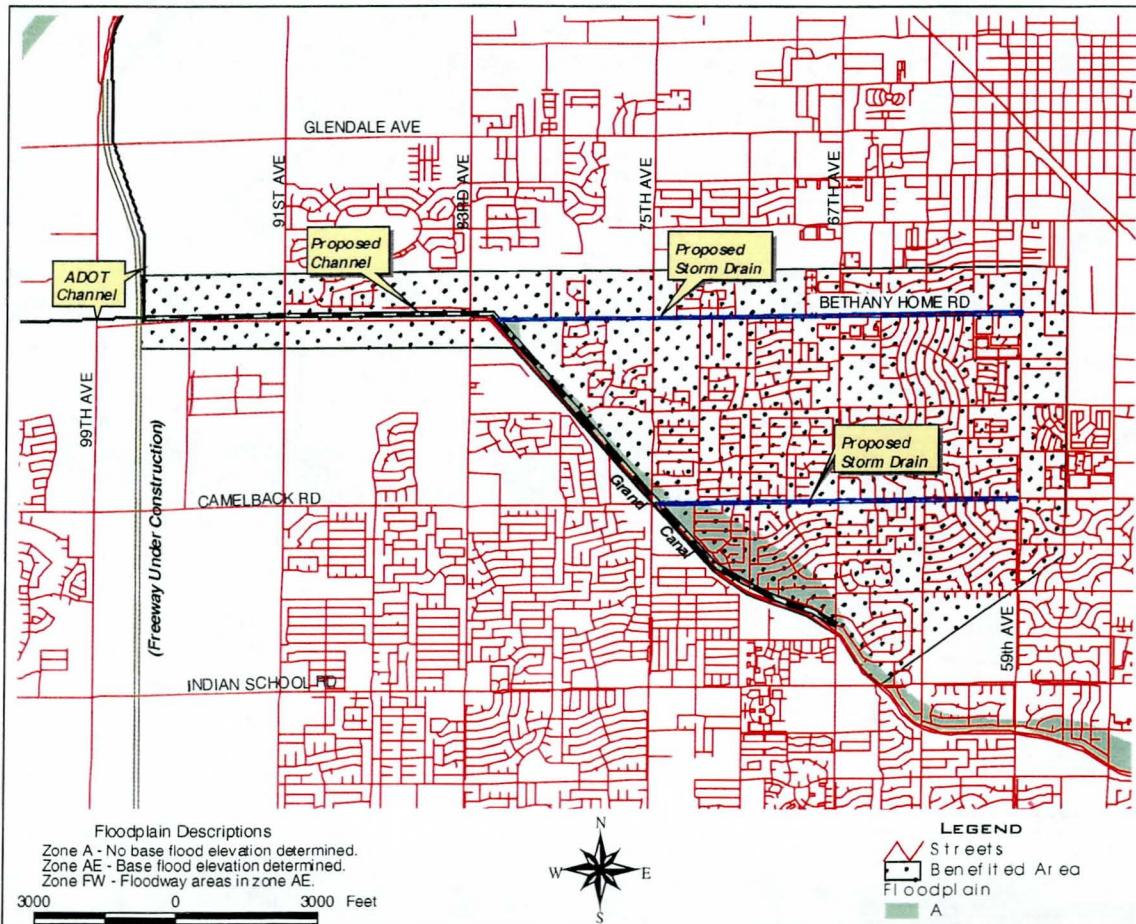
Bethany Home Outfall Channel

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(602)506-4771

csv@mail.maricopa.gov

The Bethany Home Road Outfall Channel was identified in the Maryvale Area Drainage Master Plan (ADMP). The project includes a linear basin and channel along the north side of the Grand Canal extending westerly from 64th Avenue to the New River. The project will have a 100-year capacity removing approximately 745 structures from the floodplain. The channel will receive storm water from portions of Peoria, Glendale, Phoenix, and unincorporated Maricopa County. The channel alignment (Phase I and II) is in Phoenix, Glendale, and unincorporated Maricopa County. Phase I of the project has been completed by ADOT, with District participation. This reach extends west from the proposed Agua Fria Freeway to the New River following the Bethany Home Road Alignment. ADOT increased the size of their channel and freeway bridges to accommodate additional flows from the Maryvale area. Phase II of the project will extend along Bethany Home Road easterly from the Agua Fria Freeway alignment to 73rd Avenue and an earthen, linear, on-line detention basin from 67th Avenue to 73rd Avenue. The ADMP also recommends ten year capacity storm drains, located within Bethany Home Road and Camelback Road, extending from 59th Avenue to the Outfall Channel. Preliminary estimates indicate that the cost to construct this 100-year channel and 10-year storm drains is approximately \$67 million. The Cities of Glendale and Phoenix will be required to cost share the project and sign IGAs with the District.



Supervisor District: 4,5
 Municipality: Glendale, Phoenix, UMC
 Township/Range: T2N R1E, T2N R2E



Stadium Basin West Inlet Channel

P.M: Don Rerick, P.E.

(602)506-4878

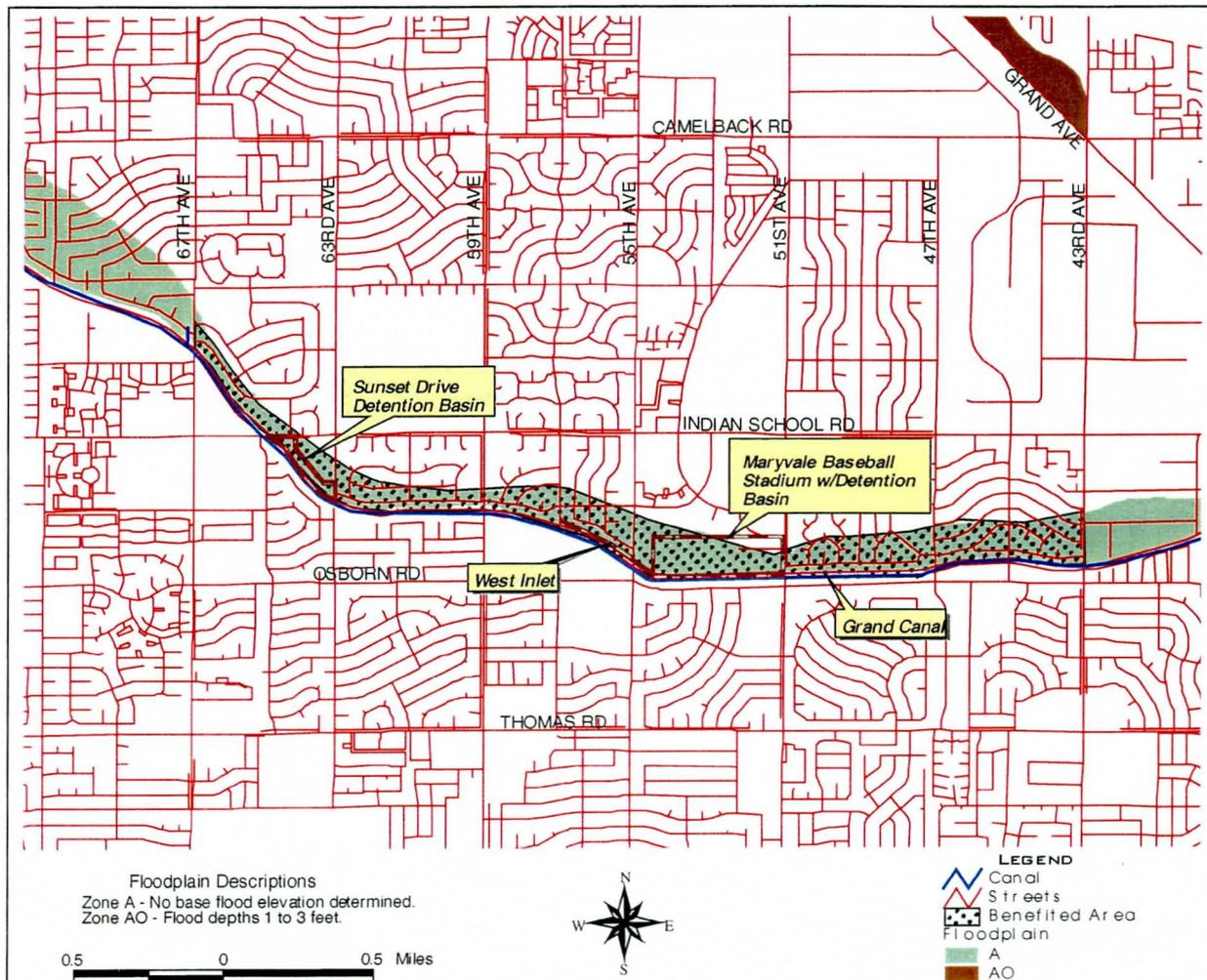
djr@mail.maricopa.gov

On August 21, 1996, the Board of Directors adopted Resolution FCD 96-04 to authorize the District to negotiate intergovernmental agreements, and for the negotiation of an engineering services contract for study and design of the Maryvale Flood Mitigation Project. The Maryvale Flood Mitigation Project Study recommended the construction of two detention basins located at 51st Avenue and the Grand Canal and related collection and discharge facilities.

On November 20, 1996, the Board of Directors approved IGA FCD 94014 between the District and the City of Phoenix for the incorporation of the two basins recommended by the Study, into the Stadium facilities planned by the City of Phoenix. The City of Phoenix has proceeded with and completed the construction of the Stadium and has included the Sunset Detention Basin as part of their project.

The Maryvale Stadium Basin West Inlet Channel Project is one of the related collection and discharge facilities recommended in the Maryvale Flood Mitigation Project Study. The project extends from 57th Ave. to the west side of the Maryvale Stadium along the north side of the Grand Canal. The District will provide for the design and construction and Phoenix will provide for the operation and maintenance.

Total project cost is estimated at \$650,000 funded by the FCD. Construction is underway and will be completed in October, 2000.



Supervisor District: 4,5
 Municipality: Phoenix
 Township/Range: T2N R2E S29

PCN: 620.04.31



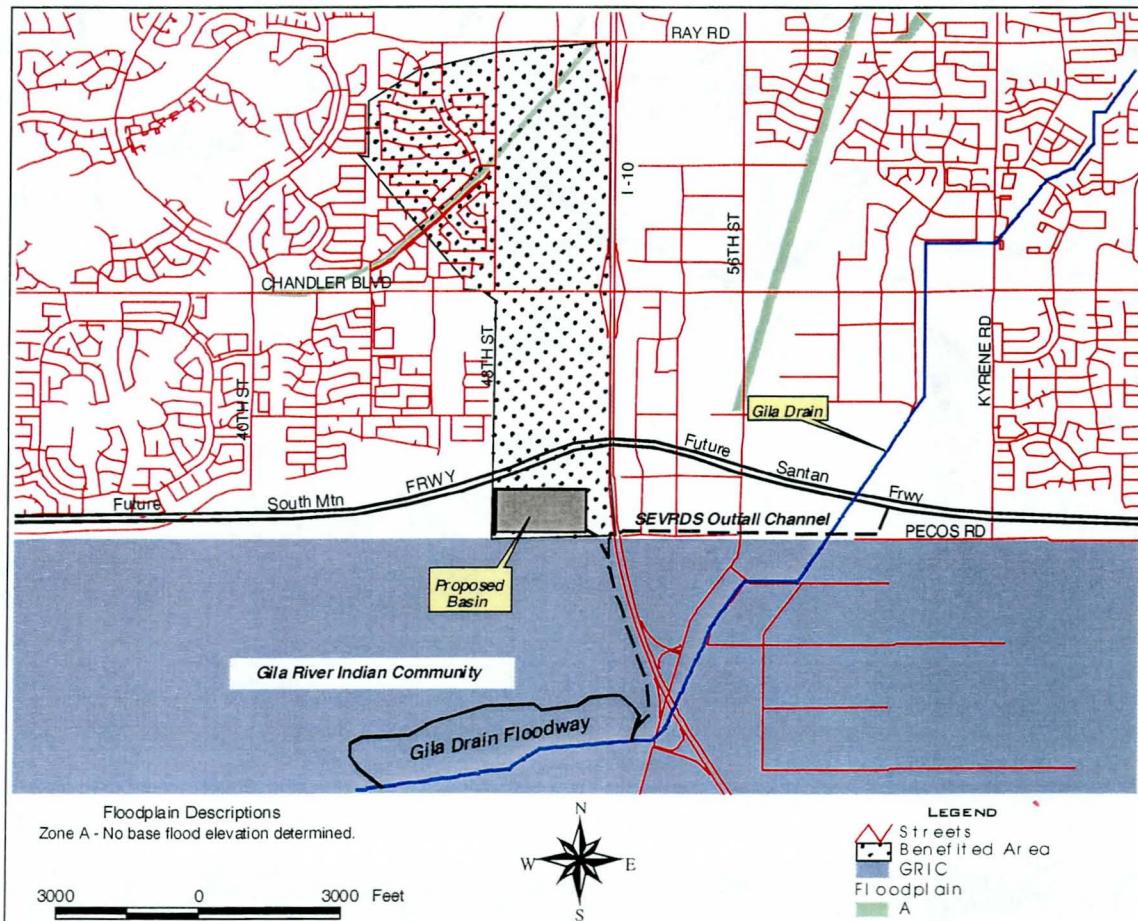
Southeast Phx Regional Drainage

P.M: Don Rerick, P.E.

(602)506-4878

djr@mail.maricopa.gov

The project was developed within the Foothills ADMP area and will create a 100-year outfall system for a 4.5 square mile watershed. The area impacted by the project is bounded by Interstate-10 (E), Pecos Road (S), 40th Street (W) and Ray Road (N). Improvements will be located within a corridor located between 48th Street and Interstate-10. Flows will be discharged to the Southeast Valley Regional Drainage System (SEVRDS) outfall channel prior to its final discharge into the Gila Drain Floodway on the Gila River Indian Community. The watershed is rapidly developing, with the remainder primarily in agricultural production. Currently, there are many manmade channels in the upper watershed, but these waterways terminate at development boundaries, and stormwater is typically dispersed back to pre-development flow patterns. Opportunities for water quality and groundwater enhancement have been given full consideration in the detention basin. The City will use the basin as a park site. Additional inflows to the Gila Drain Floodway may complement the GRIC's plan for wetlands and a natural open-space corridor. Costs for design, right-of-way, and construction are estimated to be \$7 million, and will be shared 50/50 between Phoenix and the District with District costs capped at \$3.5 million. The City has acquired the basin site and has completed design. IGA FCD 98035 identifies the District's role in the project as responsible for construction and construction management. Construction began in June, 2000 and will require 13 months to complete. Future operation and maintenance of this facility will be the responsibility of the City of Phoenix.



Supervisor District: 1
 Municipality: Phoenix
 Township/Range: T1S R4E S32



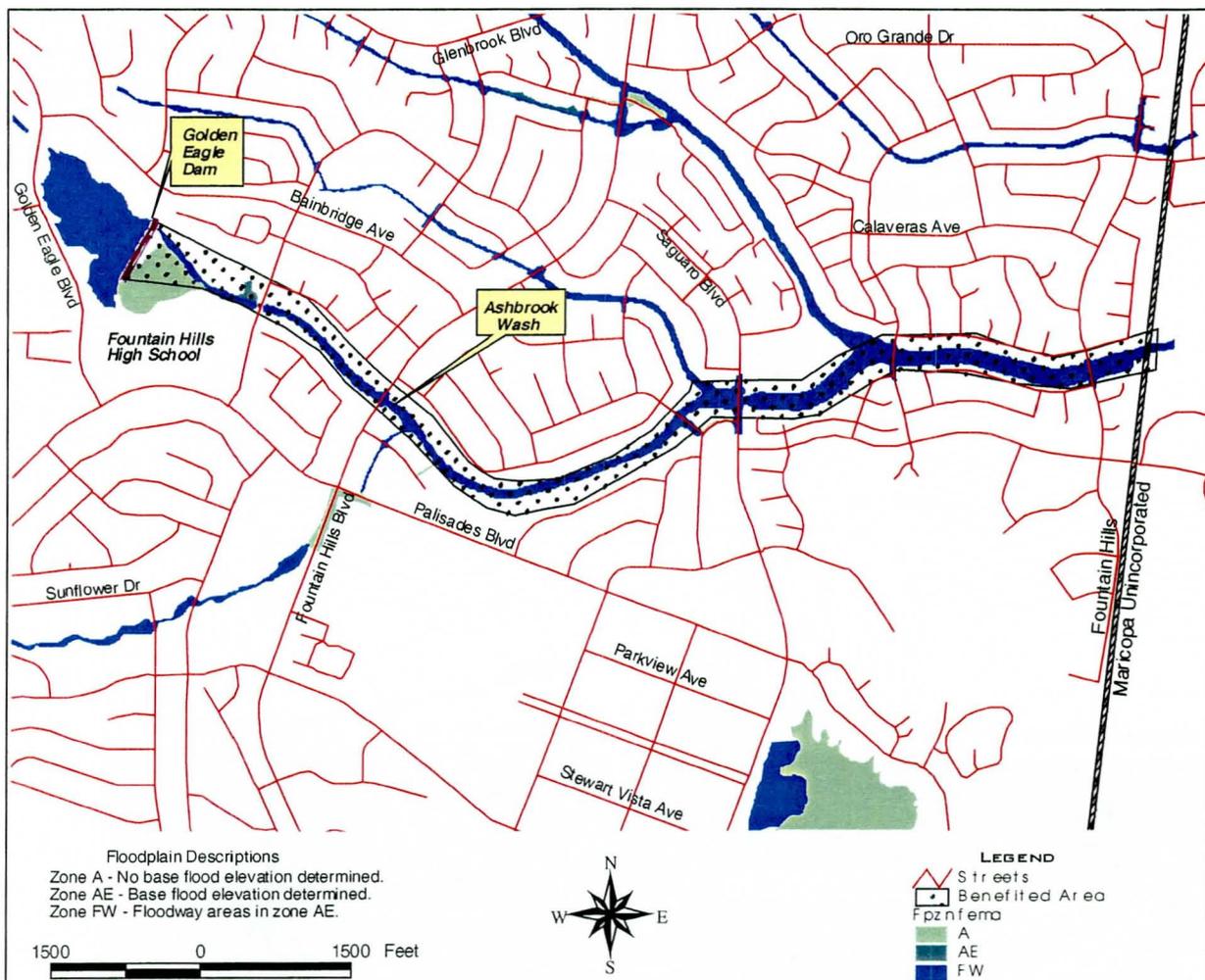
Golden Eagle Park Dam

P.M: Tom Renckly, P.E.

(602)506-8610

trr@mail.maricopa.gov

Golden Eagle Park Dam is a 28-foot high zoned earthfill embankment dam. The Dam functions as a flood control structure and is classified as a high hazard/small dam under the jurisdiction of the Arizona Department of Water Resources (ADWR). The Dam is unable to safely pass the Inflow Design Flood (IDF). The safety of the Dam is of major concern since it is upstream of Fountain Hills High School and a highly developed residential community. Modifications will bring the Dam into compliance with current ADWR dam safety requirements and significantly reduce the potential for flooding at the Fountain Hills High School facilities. The Town of Fountain Hills is a project participant. The total project cost is estimated at \$1.4 million, of which the Town will fund 35% (\$490,000). The Project is currently under construction and is scheduled for completion by November 2000.



Supervisor District: 2
 Municipality: Fountain Hills
 Township/Range: T3N R6E S9, 10

PCN: 670.03.31



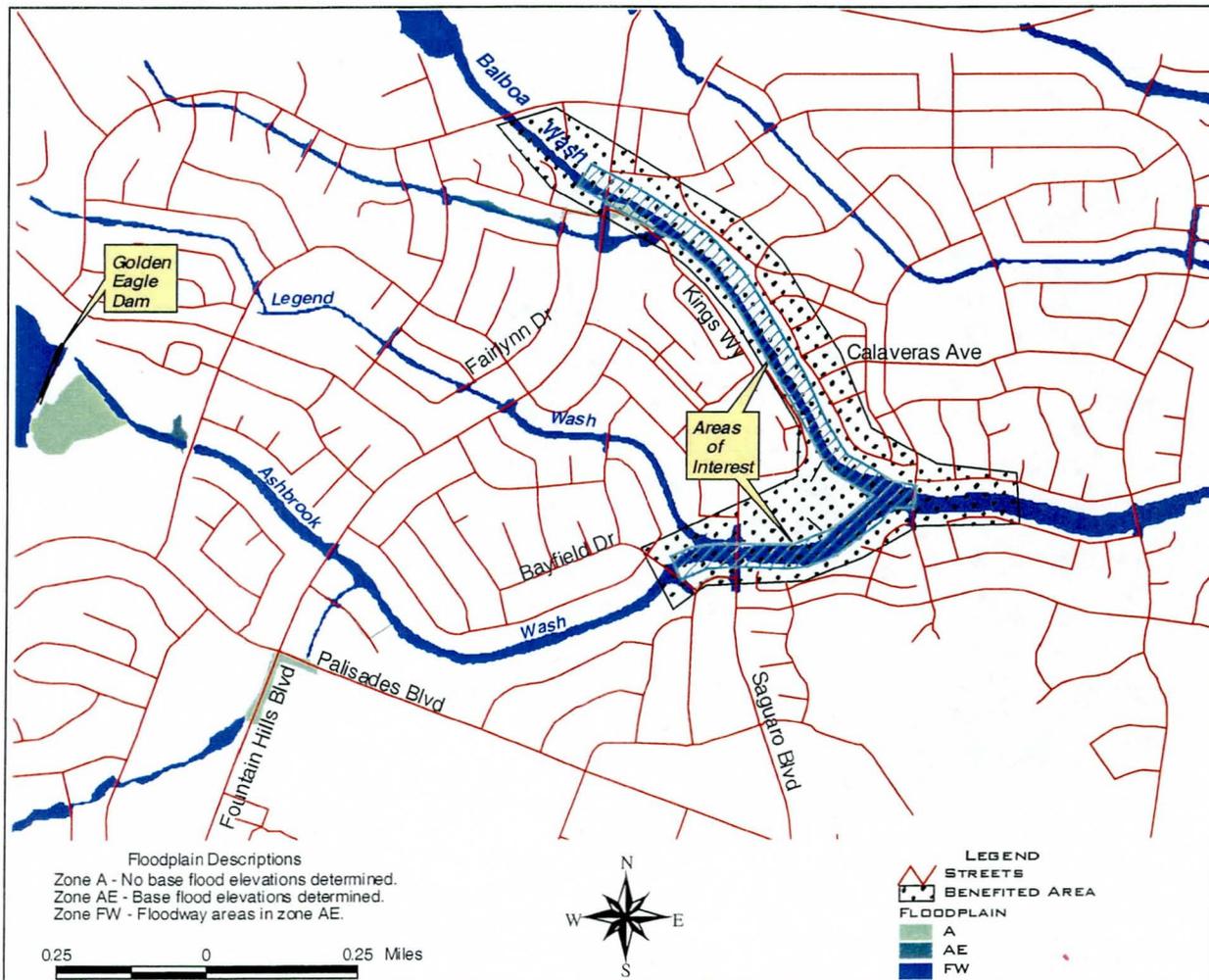
Ashbrook/Balboa Wash Improvements

P.M: Tom Renckly, P.E.

(602)506-8610

trr@mail.maricopa.gov

Ashbrook Wash and its tributaries (including Balboa Wash) are the largest wash system in Fountain Hills. Downstream of an existing series of dams, 100-year flows of 3,190 cfs affect three major problem areas (Ashbrook Wash, Del Cambre west for 900 feet; Ashbrook Wash, Saguaro Boulevard to Bayfield Dr.; Balboa Wash, and Kings Way to west of Fairlynn Drive). These areas contain sixteen single-family and twenty-three multi-family residences. The 100-year flows may also threaten the Fountain Hills Sewage Treatment Plant. The project is proposed to provide 100-year protection for the thirty-nine residences and the treatment plant. It will also improve conditions for nine roadway segments and enhance implementation of the Town's recreational Trails Plan. The project area is within the Fountain Hills ADMS (completed in FY 96-97). Cost for design and construction have been estimated by Town staff at \$1.3 million (60% by FCD, 40% by Fountain Hills). Rights-of-way are to be donated to the Town by development interests. The Town of Fountain Hills will provide future operation and maintenance.



Supervisor District: 2
 Municipality: Fountain Hills
 Township/Range: T3N R6E S10-11

PCN: 670.xx.xx



Reata Pass Channel

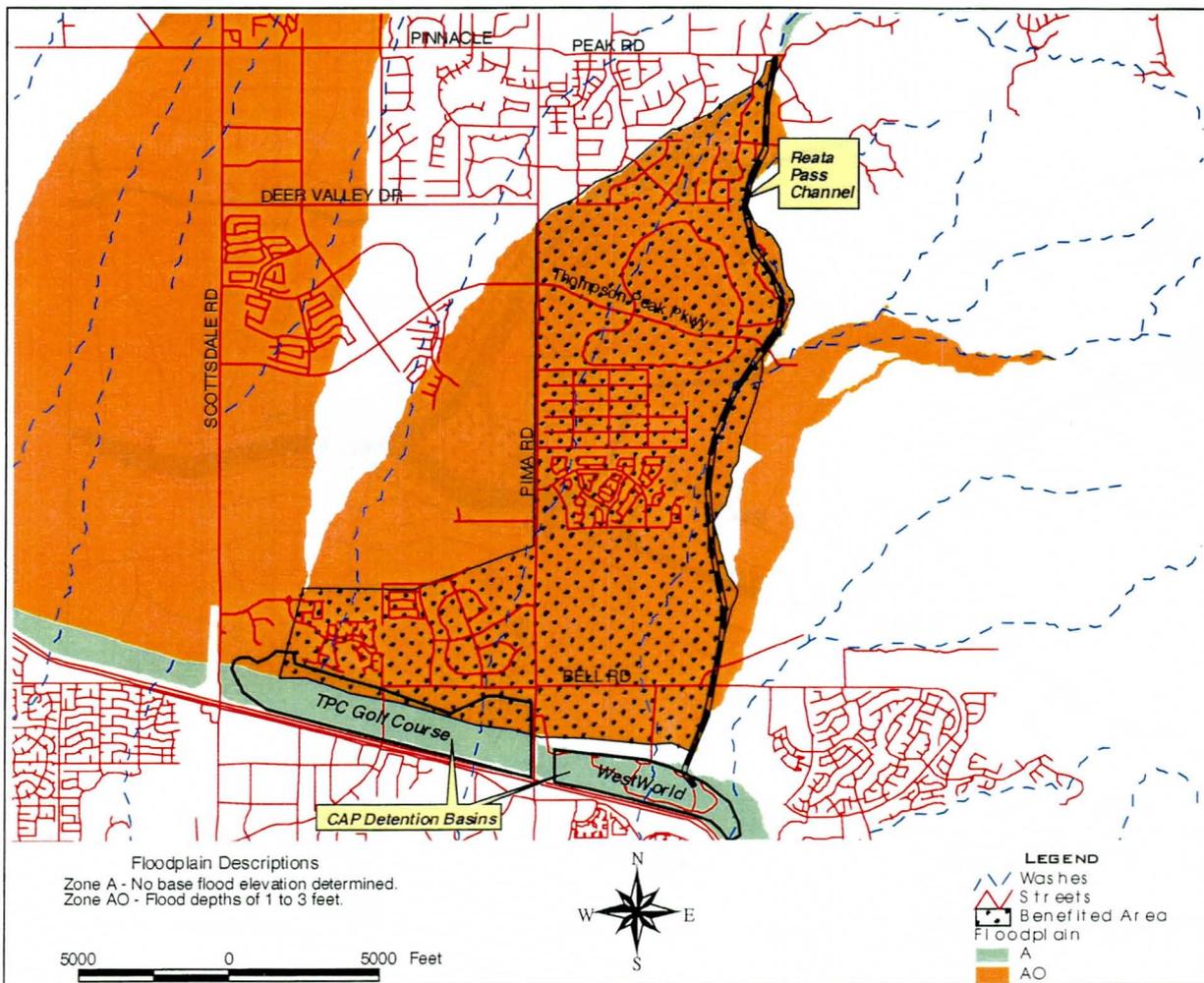
P.M: John Rodriguez, P.E.

(602)506-8782

jer@mail.maricopa.gov

The Reata Pass Channel is a cost-shared project with the City of Scottsdale to design and construct a 5-mile long channel from Pinnacle Peak Road to the Central Arizona Project (CAP) Retention Basin at the WestWorld recreation facility. The purpose for the project is to collect and convey the 100-year run-off from the west side of the McDowell Mountains. The channel consists of entrenched reaches, levees, grade control and drop structures through the full length of the channel. Approximately 500,000 cubic yards of soil-cement will be installed to stabilize the channel banks, levees, toe downs, grade control and drop structures, and the invert of the upper 1.5 miles of the channel.

Landscaping and a trail system are also included in the project design. The completed project is to be owned and maintained by the City of Scottsdale. The District has entered into an IGA to provide the City of Scottsdale \$15.8 million towards the construction costs and to perform the construction management services. By separate IGAs, the District is also cost-sharing 50% of the right-of-way costs estimated to be approximately \$7.0 million. The 404 permitting process is continuing and construction is now expected to begin in early 2001.





Pima Rd Channel (w/Pima Fwy/TPC)

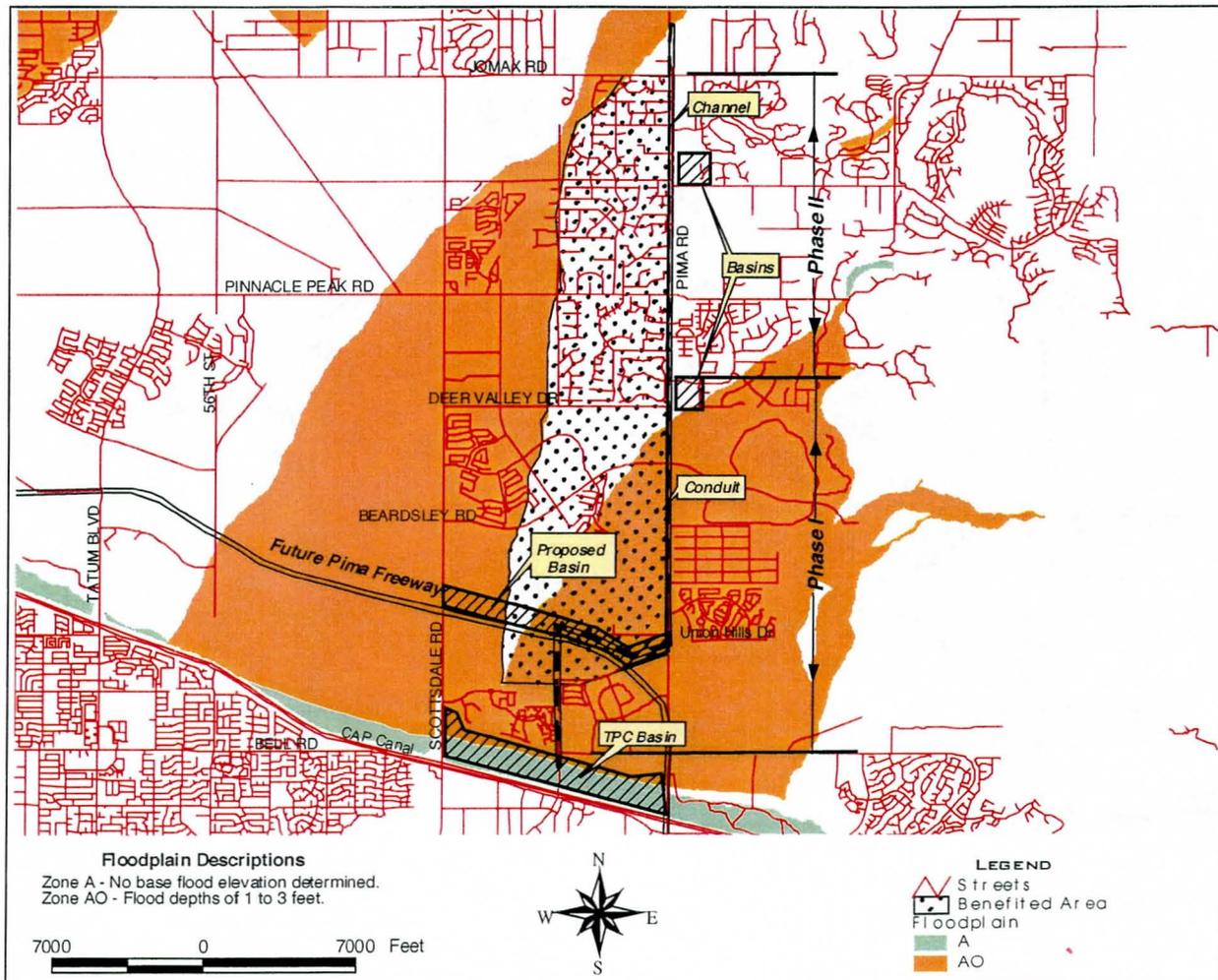
P.M: John Rodriguez, P.E.

(602)506-8782

jer@mail.maricopa.gov

A joint project with the City of Scottsdale to provide for a 100-year system of basins, collector channels and outlet conduits located on Pima Road from 1/4 mile north of Jomax Road south to the Outer Loop Freeway at Union Hills, thence along the northerly side of the freeway to Hayden Road and then south to the outfall at the CAP Retention Basin. Phase One of the project is to construct an interim basin at Deer Valley Road with a large diameter conduit in Pima Road south to the freeway at Union Hills Road. A channel/basin along the northerly side of the freeway extends to Hayden Road. A second channel/basin continues to Scottsdale Road. Both channel/basins will outfall to the CAP basin through proposed double 108 to 120 inch conduits.

A draft IGA for cost sharing design, construction, rights-of-way, construction management and to establish operation responsibilities is in the negotiation phase. The Section 404 permit is being processed jointly with the Reata Pass Channel permit application by the COE. As with the Reata Channel, the construction is now expected to begin in early 2001.



Supervisor District: 2

Municipality: Scottsdale

Township/Range: T3N R4E S1,2; T3N R5E S6; T4N R4E S1,12,13,24,25,35,36; T4N R5E 5,6,7,18,19,30,31

PCN: 680.02.30



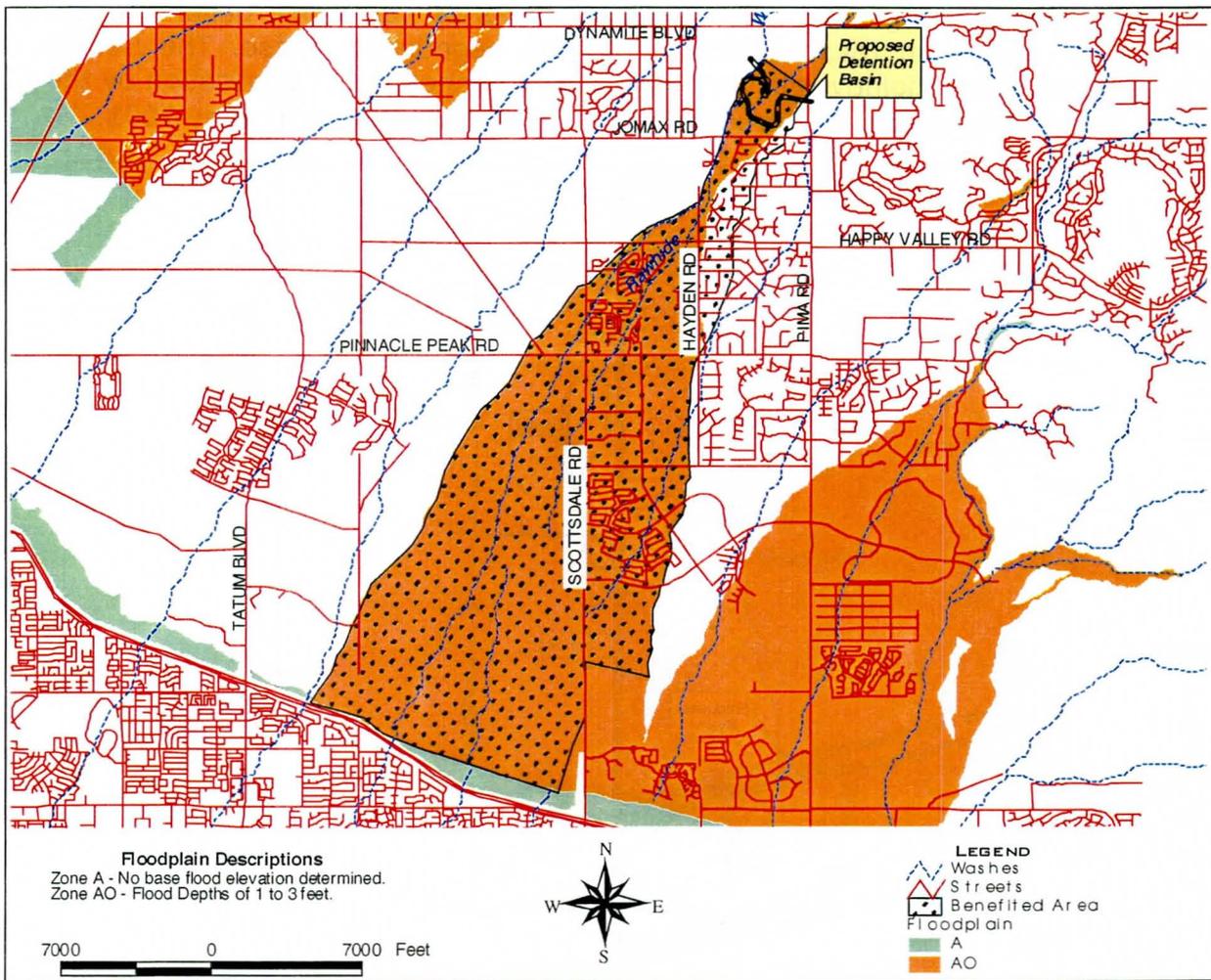
Rawhide Wash Detention Basin

P.M: John Rodriguez, P.E.

(602)506-8782

jer@mail.maricopa.gov

The Rawhide Wash Detention Basin is a joint project among the Arizona State Land Department, the cities of Phoenix and Scottsdale, and the District to design and construct a basin that will intercept and attenuate the 100-year, 6-hour storm from the Rawhide Wash Watershed. The proposed basin is to be located on approximately 90 acres southwest of the intersection of Pima Road and Dynamite Boulevard. The estimated cost of \$22 - 25 million is to be cost shared, 50% by the District and 50% by our project partners. A future IGA will define partner responsibilities and determine if the project is to be constructed.



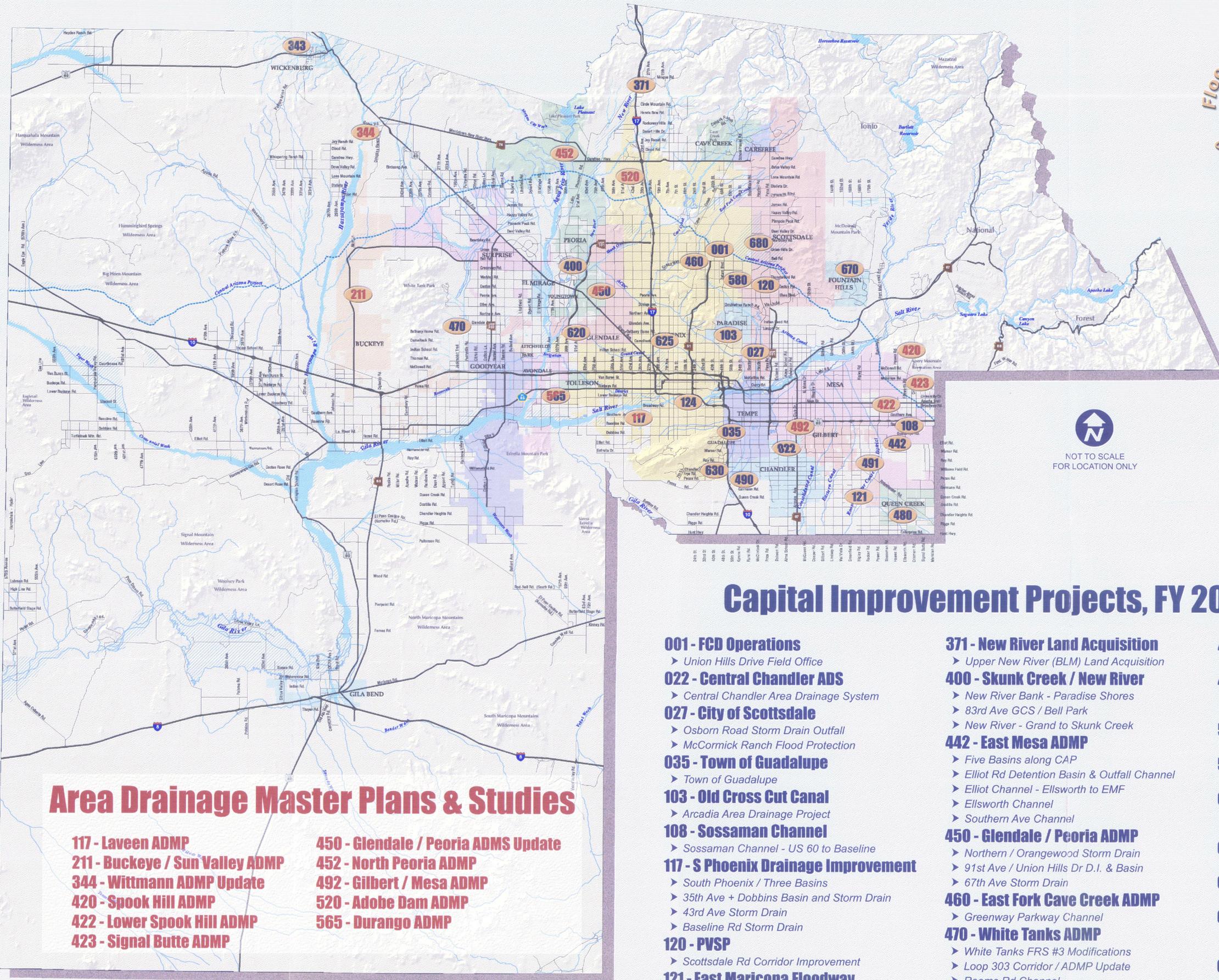
Supervisor District: 2
 Municipality: Scottsdale
 Township/Range: T5N R4E S36

PCN: 680.03.30

FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM



Planning and Project Management Division



Area Drainage Master Plans & Studies

- 117 - Laveen ADMP**
- 211 - Buckeye / Sun Valley ADMP**
- 344 - Wittmann ADMP Update**
- 420 - Spook Hill ADMP**
- 422 - Lower Spook Hill ADMP**
- 423 - Signal Butte ADMP**

- 450 - Glendale / Peoria ADMS Update**
- 452 - North Peoria ADMP**
- 492 - Gilbert / Mesa ADMP**
- 520 - Adobe Dam ADMP**
- 565 - Durango ADMP**

Capital Improvement Projects, FY 2001 - 2005

001 - FCD Operations

- ▶ Union Hills Drive Field Office

022 - Central Chandler ADS

- ▶ Central Chandler Area Drainage System

027 - City of Scottsdale

- ▶ Osborn Road Storm Drain Outfall
- ▶ McCormick Ranch Flood Protection

035 - Town of Guadalupe

- ▶ Town of Guadalupe

103 - Old Cross Cut Canal

- ▶ Arcadia Area Drainage Project

108 - Sossaman Channel

- ▶ Sossaman Channel - US 60 to Baseline

117 - S Phoenix Drainage Improvement

- ▶ South Phoenix / Three Basins
- ▶ 35th Ave + Dobbins Basin and Storm Drain
- ▶ 43rd Ave Storm Drain
- ▶ Baseline Rd Storm Drain

120 - PVSP

- ▶ Scottsdale Rd Corridor Improvement

121 - East Maricopa Floodway

- ▶ EMF Capacity Mitigation

124 - Phoenix Rio Salado

- ▶ Phoenix Rio Salado

343 - Wickenburg

- ▶ Wickenburg Wash "Q"

371 - New River Land Acquisition

- ▶ Upper New River (BLM) Land Acquisition

400 - Skunk Creek / New River

- ▶ New River Bank - Paradise Shores
- ▶ 83rd Ave GCS / Bell Park
- ▶ New River - Grand to Skunk Creek

442 - East Mesa ADMP

- ▶ Five Basins along CAP
- ▶ Elliot Rd Detention Basin & Outfall Channel
- ▶ Elliot Channel - Ellsworth to EMF
- ▶ Ellsworth Channel
- ▶ Southern Ave Channel

450 - Glendale / Peoria ADMP

- ▶ Northern / Orangewood Storm Drain
- ▶ 91st Ave / Union Hills Dr D.I. & Basin
- ▶ 67th Ave Storm Drain

460 - East Fork Cave Creek ADMP

- ▶ Greenway Parkway Channel

470 - White Tanks ADMP

- ▶ White Tanks FRS #3 Modifications
- ▶ Loop 303 Corridor / ADMP Update
- ▶ Reems Rd Channel

480 - Queen Creek ADMP

- ▶ Queen Creek Channelization
- ▶ Rittenhouse Rd Channel
- ▶ Sanokai Wash Channelization

490 - Gilbert / Chandler ADMP

- ▶ Collector Channel (SEVRD)
- 491 - Higley ADMP**
- ▶ Warner / Greenfield Park Basin
- ▶ Higley Outfall Channel

565 - Durango ADMP

- ▶ Durango Regional Outfall

580 - ACDC ADMP

- ▶ Doubletree Ranch Rd System

620 - Maryvale ADMP

- ▶ Stadium Basin West Inlet Channel
- ▶ Bethany Home Outfall Channel

625 - Metro ADMP

- ▶ 24th Ave / Camelback Basin

630 - Foothills ADMP

- ▶ SE Phoenix Regional Drainage

670 - Fountain Hills ADMP

- ▶ Golden Eagle Park Dam
- ▶ Ashbrook / Balboa Wash Imp.

680 - Upper IBW ADMP

- ▶ Reata Pass Channel
- ▶ Pima Rd Channel
- ▶ Rawhide Wash Detention Basin