



FINAL EXISTING CONDITIONS REPORT

Airport Wash

CONTRACT NO.
CT-FC-15****204

BASIN MANAGEMENT STUDY PHASE 2



Prepared for: Pima County Regional Flood Control District

Prepared by: Kimley-Horn as a subconsultant to CMG Drainage Engineering, Inc.

MARCH 2016



Kimley»Horn

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PHASE 2

Prepared For:



Pima County Regional Flood Control District
201 N. Stone Avenue, 9th Floor
Tucson, AZ 85701

Prepared By:

Kimley»»Horn

333 East Wetmore Road, Suite 280
Tucson, AZ 85705

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EXPIRES 9/30/2016

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1 INTRODUCTION

1.1 PROJECT PURPOSE

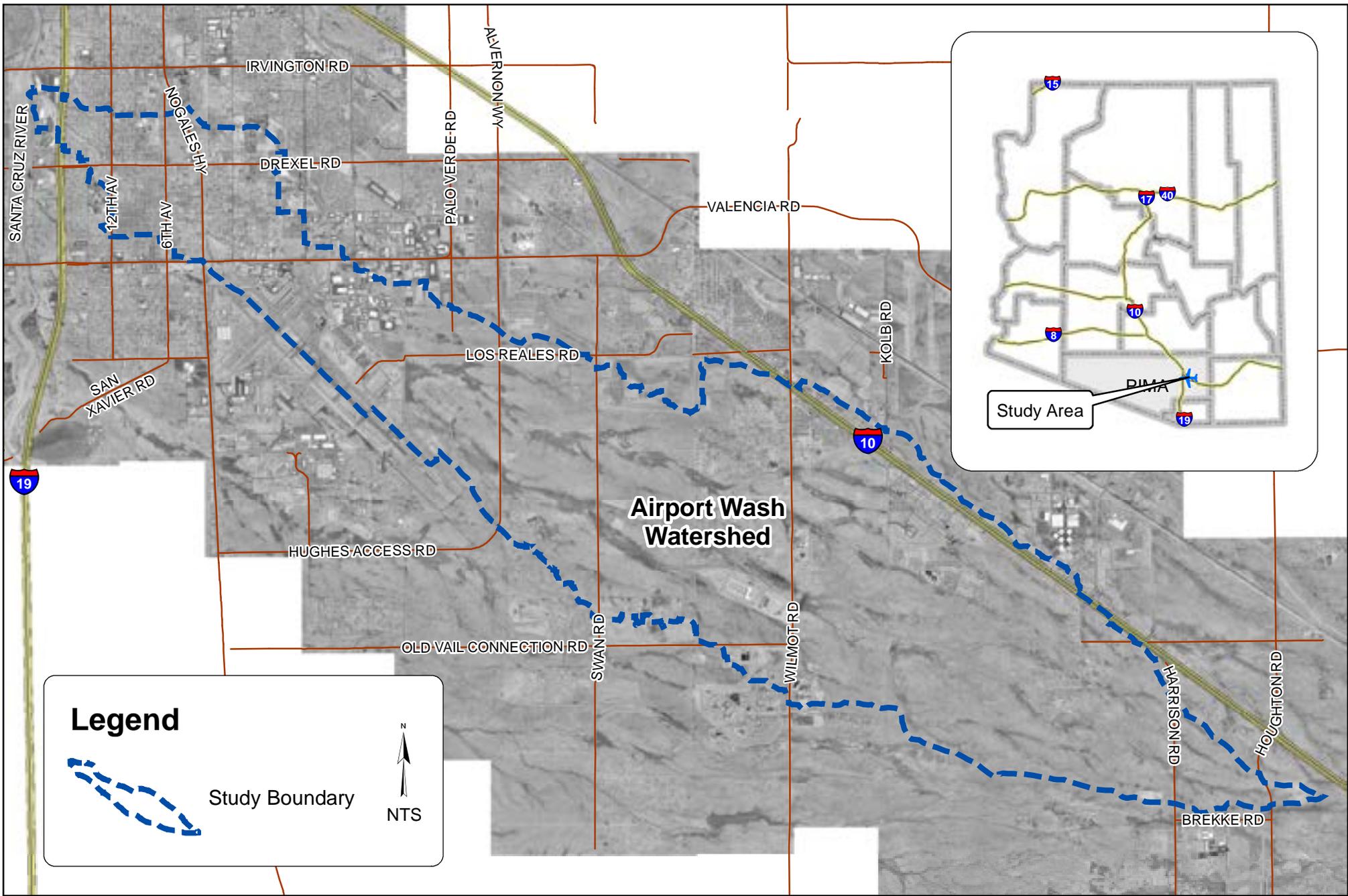
Pima County Regional Flood Control District (District) commissioned a regional basin management study of the Airport Wash (North) area, consisting of the Airport Wash watershed. The District selected CMG Drainage Engineering and Kimley-Horn and Associates to conduct this study, with CMG Drainage Engineering serving as the prime consultant. The Airport Wash Basin Management Study Phase 2 (AWBMS2) includes a Map Revision of the FEMA mapped portions of Airport Wash, updating the floodplain mapping of the locally regulated watercourses in Airport Wash, and identifying existing constraints to aid in the development of alternatives for improving drainage conditions in the regional study area. This report has been prepared for the District to document existing conditions used to help identify flood hazard locations and determine viable drainage improvements.

1.2 STUDY AREA DESCRIPTION

The limits of the Airport Wash Basin Management Study Phase 2 project area cross the jurisdictional boundaries of Pima County (County) and the City of Tucson (City). The study is bordered on the north by the Wyoming, Rodeo, and Julian watersheds with I-10 and E. Brekke Rd serving as the eastern and southern boundaries, respectively. All flow outfalls to the Santa Cruz River, which is the western boundary of the project. A location map for the project is provided on **Figure 1** and the jurisdictional boundaries are shown on **Figure 2** in **Appendix A**.

The jurisdictional composition of the study area is shown below:

Jurisdiction	Acres	Sq. Miles	Percentage
City of Tucson	9769.01	10.07	39.76
Pima County	6446.75	15.26	60.24
Total	16215.76	25.33	100.00



2 LAND USE AND FACILITIES

2.1 LAND OWNERSHIP

The regional study area is comprised of the Airport Wash Watershed. The upper portion of the watershed primarily consists of state owned, undeveloped rangeland and transitions to privately held residential and commercial properties northwest of the Tucson International Airport (Airport), which is located southeast of the intersection of Nogales Hwy and Valencia Rd. The United States and State of Arizona governments own property along the Wilmot Rd alignment, used to operate federal and state prisons, and the State of Arizona also owns the land used to construct the I-19 corridor.

2.2 EXISTING LAND USE

Land use within the study area consists of residential, industrial, commercial, transportation, mining, and undeveloped desert rangeland. Much of the eastern portion of the watershed is undeveloped desert rangeland, with some residential developments along the major roadway corridors. The Vista Montaña Estates and Desert Stone subdivisions are east of Wilmot Rd, with Trail's West Mobile Home Park and Voyager Hotel and RV Resort located east of Kolb Rd. The Grayhawk Ranch and Wilmot Farms subdivisions are west of Wilmot Rd, with additional single family homes south of Hermans Rd. These developments are all located in the northern portion of the watershed, near I-10. The Robert Bills substation, operated by Tucson Electric Power, is located between Klafter Rd and Hermans Rd, immediately west of Wilmot Rd. A federal prison and an Arizona state prison are located along Wilmot Rd, north and south of Old Vail Connection Rd, respectively.

The City of Tucson operates the active Los Reales Landfill, near Swan Rd. The eastern borrow pit for the Landfill acts as a regional retention basin, with sufficient storage capacity to fully contain all upstream flow in Old Rodeo Wash. The Tucson International Raceway is located west of Swan Rd, along the Los Reales Rd alignment. There are several mining operations east of Alvernon Way, including Hughes Sand and Gravel and Sierra Mining. The study limits also include the northern portion of the Granite Construction mining operation, leased from the Tucson Airport Authority, located north of Old Vail Connection Rd.

The Tucson International Airport occupies most of the land between Country Club Rd and Valencia Rd, with an Air National Guard facility situated on the northern side of the Airport. In addition, there are a variety of landside services and small commercial enterprises in this area. The Union Pacific Railroad runs north-south through the project, along the eastern side of Nogales Hwy.

Sunnyside School District also owns several parcels used to operate Sunnyside High School, at the intersection of Campbell Ave and Bilby Rd, and Apollo Middle School, at the intersection of Nebraska St and Liberty Ave. The remainder of the study area mainly consists of single family residential housing. Nogales Hwy and Valencia Rd serve as the main arterial roadways within the study limits.

Existing zoning and land use for the watershed are provided in **Figures 3 and 4** in **Appendix A**.

2.3 PROPOSED LAND USE

The 2015 Pima County Comprehensive Plan defines future land use and the 2013 City of Tucson General Plan (Plans) describes development criteria within the study area. The land use plans for the southeast sub-region in these Plans show that the proposed land uses within the study area are primarily designated as Medium High Intensity Urban and Industrial with areas east of Swan Rd classified as Multifunctional Corridors and Resource Conservation. Future land use plans are displayed on **Figure 5** in **Appendix A**.

2.4 REGIONAL TRANSPORTATION

There are a variety of strategic transit projects and roadway improvements outlined in the 2040 Pima Association of Governments (PAG) Regional Transportation Plan. Transit projects include new bus rapid transit lines and expanded bus and streetcar routes. Arterial roadway improvements include corridor improvements, roadway widening, and new roadways. Freeway improvements include new and rebuilt interchanges as well as the addition of High Occupancy Vehicle (HOV) lanes, along both I-19 and I-10. Regional transportation projects are shown on **Figure 6** in **Appendix A**.

2.5 TRANSPORTATION AND UTILITIES

2.5.1 Roadways

Roadways within the study area are not intended to convey flow and all weather access limitations are minimal, except in designed low flow “dip” crossing locations where greater flow depths limit all weather access. Undersized drainage structures, particularly in the upstream portion of the watershed, induce roadway overtopping but low flow depths do not cause all weather access limitations. Additionally, several project roadways effectively function as grade control structures which may reduce channel capacity and contribute to upstream flow breakout.

2.5.2 Tucson International Airport

The Tucson International Airport and its holdings make up a significant portion of the project, with a constructed segment of the main Airport Wash channel flowing through the Airport. Flow is generally contained within this section of the wash, although the box culvert at Plumer Ave lacks capacity and causes flow to breakout, impacting adjacent properties to the north. The confluence of North Fork Airport Wash and the main Airport Wash channel, at the Country Club Rd dip crossing, limits all weather access and could disrupt Airport operations.

2.5.3 Union Pacific Railroad

The Union Pacific Railroad (UPRR) runs north-south, immediately east of Nogales Hwy. The main Airport Wash channel flows under the UPRR Bridge, north of Valencia Rd. The upstream channel lacks capacity, causing flow to break out to the north and south. Downstream, the Nogales Hwy bridge scour floor acts as a grade control structure, preventing the wash from reaching equilibrium slope, as evidenced by downcutting

downstream. Upstream channel capacity is likely impacted more by the relatively flat slope of the channel than backwater effects due to the bridge.

2.5.4 Utilities

The main sanitary sewer pipelines parallel the Railroad on the east and I-19 on the west. Additional sanitary sewer mains parallel the northern portions of Country Club Rd and Wilmot Rd, on the east and west, respectively. Electrical transmission lines from the northwest and west converge in the Spectrum commercial development to run south, west of I-19, and east, exiting the project area northeast of the Drexel Rd and Nogales Hwy intersection. Transmission lines also parallel Swan Rd, on the west, and Old Vail Connection Rd, on the south, throughout the watershed. The transmission lines stay west of any current development and continue southeast across San Xavier Rd. Another section of transmission lines runs south, west of Rita Rd, and southeast, east of Rita Rd. The main gas pipeline enters the project area near the southern terminus of Alvernon Way and continues southeasterly before exiting the project area near the southern project boundary at E. Brekke Rd. Gas mains also run north-south throughout the project limits, approximately 700 feet east of Wilmot Rd and 2700 feet west of Rita Rd.

2.6 FUTURE INFRASTRUCTURE PROJECTS

The existing Old Nogales Interceptor (ONI) sewer line runs from the intersection of Hughes Access Rd and Nogales Highway to the intersection of Euclid Avenue and 36th St. A feasibility study was recently completed and an ONI extension to the intersection of Old Vail Connection Rd and Wilmot Rd is currently being designed. The extension would serve the existing Arizona state prison and have capacity to handle future flows generated by new development.

A new highway, known as the Sonoran Corridor, is being studied to link I-10 and I-19. The Sonoran Corridor is proposed to run from Rita Rd and I-10 to Pima Mine Rd and I-19. The proposed Sonoran Corridor alignment follows Old Vail Connection Rd right-of-way, running east-west through the study area, before turning to the south approximately 1 mile west of Swan Rd. The project would make existing industrial and transportation facilities more accessible as well as promote regional development.

2.7 AERIAL PHOTOGRAPHY AND TOPOGRAPHY DATA SOURCES

Electronic data prepared for this project are based on the digital projection shown as follows:

Horizontal Datum:	NAD83 (HARN)
Projection:	Arizona State Plane, Central Zone
Units:	International Feet
Vertical Datum:	NAVD88

The Pima County GIS Department provided 2008 bare earth LIDAR data and 2008 aerial photography, which were prepared under PAG management, for this study. Topographic mapping with 2-foot interval contours was generated by utilizing 2008 PAG bare earth LIDAR data.

Ashby Surveying & Drafting, Inc. performed supplemental field survey for the drainage structures within the study area in 2015. The survey data collected included sizes of culverts and bridge piers, materials, invert elevations, and channel geometries at the inlets and outlets.

3 PREVIOUS DRAINAGE STUDIES AND FLOODING CONCERNS

3.1 PREVIOUS DRAINAGE AND FLOOD INSURANCE STUDIES

3.1.1 *Los Reales Landfill On-Site Drainage Management, EMCON/OWT, 2004*

The Drainage Management Plan outlines concepts and designs to convey surface water runoff through the Landfill. The Landfill was divided into three on-site drainage areas, which would drain to associated retention/detention basins. Off-site flows generated in the Old Rodeo Wash watershed are also collected in the East Retention Basin. The East Retention Basin was designed to contain double the 100-yr storm event, for both on-site and off-site contributing areas, resulting in a minimum basin size of 492 acre-ft. Excavation of the East Retention Basin to the design floor shown in the Master Stormwater Plan would result in a much greater storage capacity of 1128 acre-ft.

3.1.2 *Airport Wide Basin Study; Parsons Brinckerhoff, 1992*

The objective of this Study was to establish a stormwater management plan for the Tucson International Airport and its landside facilities to coincide with the existing Airport Master Plan. The Study recommended a combination of two subregional detention basins and an individual retention basin. The basins were not designed or located, although the retention basin was expected to be constructed in the Hughes watershed.

The Study stated that the TAA was responsible for the construction and maintenance of the detention basins. An agreement between TAA, Pima County, and the City of Tucson provides for a staged construction schedule and stipulates that basin construction begins after Tucson International Airport reaches a 30% level of development. In addition, the Study recognized that the TAA needed to establish a maintenance plan designed to ensure the functionality of all basins. The Study recommended site grading to reduce existing ponding in the safety areas but noted that ponding may not be eliminated as Federal Aviation Administration (FAA) guidelines might limit the amount of grading possible.

3.1.3 *Nogales – Tucson Highway; AECOM, 2012* *I-19 San Xavier Road to I-10* *DCR and EA* *Final Drainage Report*

The Drainage Report was put together in support of the Design Concept Report for new traffic interchanges and the widening of I-19, from San Xavier Rd to I-10. There are two drainage structures, along Airport Wash, that pass flow underneath I-19. The northbound and southbound lanes of I-19 cross Airport Wash as bridge crossings, which were proposed to be widened.

3.1.4 Letter of Map Revision; 2011

In June 2011, a Letter of Map Revision (LOMR) was submitted to update Flood Insurance Rate Maps (FIRMs) and Flood Insurance Study (FIS) reports for a segment of Airport Wash. This LOMR (Case Number: 11-09-1344P) revised flood profiles, floodway data, and base flood elevations for Airport Wash, for the reach beginning approximately 50 feet downstream of Fontana Ave and ending approximately 90 feet downstream of Valencia Rd.

3.1.5 Airport Wide Drainage Basin Update; Stantec, 2004

The Update was intended to update the stormwater management plan completed in 1992 by Parsons Brinckherhoff to reflect current and future airport expansion. The Update made the same recommendation as the 1992 Parsons Brinckherhoff Study, recommending the construction of two subregional detention basins and one retention basin. Basins were not designed or located, although one detention basin was planned in the Airfield watershed and one in the Airport watershed.

The Airfield detention basin was expected to be required during Planned Development Level (PDL) 1 of the Airport Master Plan, which corresponded to the construction of Runway 11R/29L in 2004-2008. The Airport detention basin was expected to be required during PDL 4 in 2018-2023. The Hughes watershed retention basin was not expected to be necessary during the 20-year planning period. None of the proposed basins have been constructed and are not currently planned.

3.1.6 Wilmot/I-10 Commercial Center; Bogardus Engineering, LLC, 2008 Final Drainage Report

The Report was completed to support construction of a subdivision covering approximately 8-acres. On-site drainage improvements were recommended and designed, including storm drains and on-site detention basins. An existing 48" CMP, crossing Wilmot Rd, which originally conveyed tributary flow to Old Rodeo Wash has since been modified to tie in to a proposed storm drain. The proposed storm drain outlets to a detention basin, both of which have been partially constructed. The subdivision has yet to be constructed.

3.1.7 Blackhawk Ranch, Lots 1-8; Greg Carlson Engineering, LLC, 2011 Drainage Report

The Report used modified TSMS hydrologic modeling and new hydraulic analysis to support construction of a 7.5 acre subdivision. The Report found that the subdivision was outside the mapped 100-year floodplain and that updated downstream flows decreased relative to the original TSMS nodes, indicating that on-site detention was not necessary. Erosion hazard setback calculations were performed for lots beyond the bank protected section of Old Rodeo Wash. The subdivision is currently under construction.

3.2 PREVIOUS DRAINAGE COMPLAINTS

Drainage complaints, compiled between 1983 and 2014 by the City of Tucson and Pima County, were reviewed to determine if the complaints correspond with existing issues. Reviewed drainage complaints include paper records and electronic databases, with paper complaints dated from 1983 to 2005 and electronic records dated from 1989 to 2014. Drainage complaints below were collected by the City. County drainage complaints were too extensive to include in this report and are documented in **Appendix B**. Locations of drainage studies and flooding concerns can be found on **Figure 7** in **Appendix A**.

3.2.1 Complaint #13

Several houses were flooded due to flow from the Nogales Highway culvert. The berm on the southeast corner of Nogales Highway and Nebraska St was raised. The culvert at this location was cleaned out, channels were improved on the north side of Nebraska St and west side of Champion Stravenue, and the berm on the east side of Champion was lowered.

Complaint #482 also references this issue and indicates that the channel on the west side of Champion Stravenue was insufficient to convey larger flows. The issue was subsequently recommended for the spot improvement program.

3.2.2 Complaint #28

Runoff from Canada Dr overflows the street and floods the house on the southwest corner of Canada Dr and Santa Clara Ave. The problem was referred to the “Drainage Needs Study.”

3.2.3 Complaint #37

A resident claimed improper drainage of an alley caused flooding in his home. The area sloped down toward the home, resulting in the home being approximately 2 feet below the elevation of the alley.

3.2.4 Complaint #783

A resident requested that an alley be re-graded due to recurring flooding during large flow events. The alley was found to be higher than the finished floor elevation of the home and the possibility of re-grading the alley was to be investigated.

3.2.5 Complaint #895

Significant erosion was reported along a section of Randall Rd, near Bilby Rd. New aggregate base had already been installed by the City Streets Division.

3.2.6 Complaint #897

A resident reported that the Nebraska St Bridge was clogged with debris, causing overtopping and residential flooding. The culverts were determined to be undersized and

filled with sediment. A work order was sent to the City Streets Division to clean out the pipes.

3.2.7 Complaint #924

A clogged catch-basin caused flooding near Nogales Hwy and Drexel Rd. A work order was verbally confirmed with the City Streets Division, although the complaint originated on State right-of-way.

3.2.8 Complaint #1143

Improper construction of Calle Santa Cruz in 1982 caused scour below the grade control structure in Airport Wash. The problem was not discovered until construction of a 1986 project.

3.2.9 Complaint #1389

A resident reported flooding due to roadway runoff in their yard. The complaint does not specify a cause or solution.

3.2.10 Complaint #1605

The complaint alleged that \$3000 of chip/seal was washed away. It was determined that none of the chip/seal was washed away, although the gravel cover was removed due to runoff. A ditch or storm sewer along Nogales Highway is needed to rectify the problem.

3.2.11 Complaint #1724

Erosion was reported behind existing bank protection, requiring fill. A work order was filed with the City Streets Division.

3.2.12 Complaint #1996

Ponding and flooding occurred in the Bel-Aire Mobile Home Park, resulting from a lack of curb, sidewalk, and on-site drainage improvements. The City Streets Division constructed a V-ditch to prevent flooding of the mobile home park.

3.2.13 Complaint #1997

A V-ditch was constructed by the City Streets Division to alleviate residential flooding due to sheet flow. Complaint #1863 also indicated erosion in this vicinity.

3.2.14 Complaint #2215

The box culvert near the Bilby Rd. and 6th Ave intersection caused the earthen bank of Airport Wash channel to erode. The City Streets Division requested permission to fill the bank using waste material from construction on Valencia Rd. Permission was granted to fill the bank, but it was noted that this was a temporary solution.

3.2.15 Complaint #2231

Work done by the City Streets Division was thought to cause ponding in an area that kids are required to traverse to and from school. The problem was referred for further analysis.

3.2.16 Complaint #2895

A resident reported that a drainage ditch was overgrown and clogged with debris. The City Streets Division was apprised of the issue.

3.2.17 Complaint #3592

A storm drain along Nogales Highway was blocked due to land development above their lot. Culverts had been installed which were subsequently blocked due to additional development. No action was taken due to a lack of development at the property in question.

3.2.18 Complaint #3633

A resident reported that stormwater entered his home as a result of gas line by the City in the alley behind his home. It was determined that the alley needed to be re-graded. Complaint #3812 also references this issue.

3.2.19 Complaint #3890

A resident reported that his driveway was flooded and the problem was referred to the City of Tucson Development Services Department.

3.2.20 Complaint #3979

Residential flooding was caused by alley runoff. Water was found to pond in the alley but not in the yard or home. Attempts to contact the homeowner were unsuccessful.

3.2.21 Complaint #4226

Street flooding was reported near 12th Ave and Bilby Rd. No action was taken at the time of the complaint.

3.3 HISTORICAL FLOODING RECORD

A severe thunderstorm hit the Tucson metro area on September 7, 2006 and the National Weather Service reported half an inch of rainfall during the initial ten minutes of the storm at the Tucson International Airport. The storm prompted several road closures, including a large segment of Wilmot Road, near the state prison.

3.4 PREVIOUSLY IDENTIFIED OR DESIGNED PROJECTS

The 1995 Tucson Stormwater Management Study (TSMS) identified two Capital Improvement Projects within the project study area. Neither project was constructed or designed.

3.4.1 Nebraska St Storm Drain

There is an existing storm drain under Nebraska St, beginning near Nogales Highway and outlets to an open channel near Alaska Dr, which was built in the 1950s. The storm drain was proposed to be extended to 17th Ave, which would also outfall to an open channel.

3.4.2 Airport Wash Compound Channel

A compound channel was proposed along Airport Wash, from Park Ave to Bilby Rd, in conjunction with a box culvert under the Union Pacific Railroad. The compound channel has not been constructed and there is currently a bridge at the Airport Wash railroad crossing.

4 ENVIRONMENTAL CONDITIONS

4.1 ERZ AND WASH WATERCOURSES

Environmental Resource Zone (ERZ) and Watershed, Amenities, Safety, and Habitat (WASH) regulations are defined in Chapter 2 of the City of Tucson Land Use Code and Chapter 20 of the City of Tucson Code, respectively. The ERZ regulations serve to protect significant natural channels, which provide habitat for wildlife and support flood control, erosion mitigation, and groundwater recharge efforts. The WASH regulations are intended to maximize groundwater recharge, protect existing vegetation, and ensure that development does not generate any long term, adverse impact to vegetation.

There are several ERZ watercourses, all upstream of Wilmot Rd. There are an additional five sections of Proposed ERZ Watercourses Under Review that fall within the study limits. Two segments are on North Fork Airport Wash and the North Fork North Tributary, both upstream of Swan Rd, with another segment on Old Rodeo Wash along each side of Wilmot Rd. The two ERZ Under Review watercourses, which are afforded the same protection as ERZ washes, are further upstream on South Fork Airport Wash and one of its tributaries. Two segments of Airport Wash and one segment of Nebraska Wash, on or downstream of the Airport, are designated as WASH watercourses.

4.2 BALANCED AND CRITICAL BASINS

There are not any critical basins within the limits of the study area. The City of Tucson and Pima County both classify the Airport Wash watershed as a balanced basin, meaning that future development would likely trigger detention requirements.

4.3 RIPARIAN AREAS

There are several riparian areas in the study area, as defined by the Pima County Floodplain Management Ordinance. The ordinance is designed to promote the natural function of existing channels and floodplains through the preservation of critical riparian zones. Riparian area classifications are based on vegetation type and density, which vary according to watercourse activity and development. Riparian areas within the study limits are classified as Hydroriparian, Xeroriparian, and Important Riparian Areas.

There are two hydroriparian areas, between Country Club Rd and Alvernon Way, which are typically associated with perennial watercourses. Xeroriparian areas are subdivided into four classes, three of which are found within the study area, based on vegetation density. Type C areas are the most prevalent, with several type D areas in the vicinity of Wilmot Rd, and a few type B areas near Kolb Rd. Type C riparian areas are commonly associated with an ephemeral watercourse and Type D riparian areas are generally found near watercourses disturbed as a result of human activity. Type B riparian areas typically feature intermittent or perennial watercourses or shallow groundwater. There is one area designated as an Important Riparian Area, downstream of Calle Santa Cruz near the Santa Cruz River. Important Riparian Areas occur near major river systems and provide floodplain management zones vital to the functionality of the watercourse.

Environmental conditions including ERZ and WASH Watercourses, Balanced/Critical Basins, and Riparian Areas are shown on **Figure 7** in **Appendix A**.

5 HYDRAULIC CONDITIONS

The floodplains of Airport Wash and its larger tributaries have been mapped by FEMA from upstream of Swan Rd to the confluence with the Santa Cruz River. Channel segments upstream of the Airport are natural while the section of Airport Wash through and downstream of the Airport is completely channelized and includes several large drainage structures. Drainage infrastructure in this area, with the exception of the Plumer Ave box culvert, is adequate to convey 100-year flows west to the Santa Cruz River. While drainage infrastructure is sufficient to meet all weather access requirements, high flow depths and velocities cause multiple project roadways to act as grade control structures, which can have the effect of limiting channel capacity and could compromise roadway integrity.

Inadequate channel sections west and east of Nogales Hwy and west of Country Club Rd induce flooding, although impacts to inhabitable structures are minimal. The 100-yr flow is also not contained in the channel as bank heights decrease near the northern side of the I-19N bridge abutments, causing residential flooding and all weather access limitations. The updated FEMA mapping is discussed in more detail in the 2016 *Airport Wash Physical Map Revision Technical Data Notebook* by CMG Drainage Engineering.

Locally regulated watercourses east of Swan Rd are predominantly natural, with constructed channel segments through the residential developments along Wilmot Rd and Kolb Rd. Drainage infrastructure in this area is typically undersized, although residential developments and all weather access are generally not affected. Downstream of Wilmot Rd, vegetal growth in the constructed channel segment of Old Rodeo Wash causes flow to overtop the concrete banks, impacting ongoing and planned future development. A natural flow split, downstream of Kolb Rd, diverts additional flow into the North Fork Airport Wash tributary that crosses Wilmot Rd at the low flow crossing approximately 900 feet south of Klafter Rd. Comprehensive discussion of the new, non-FEMA floodplain mapping can be found in the 2016 *Hydrology & Hydraulics Report For Locally Regulated Watercourses in Airport Wash* by Kimley-Horn.

Locations of existing drainage infrastructure can be found in **Figure 8** in **Appendix A**. Maintenance concerns at roadway crossings are shown in **Appendix B**.

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Appendix A – Project Figures

Figure 2 – Jurisdictional Boundaries and Land Ownership Map

Figure 3 – Existing Zoning Map

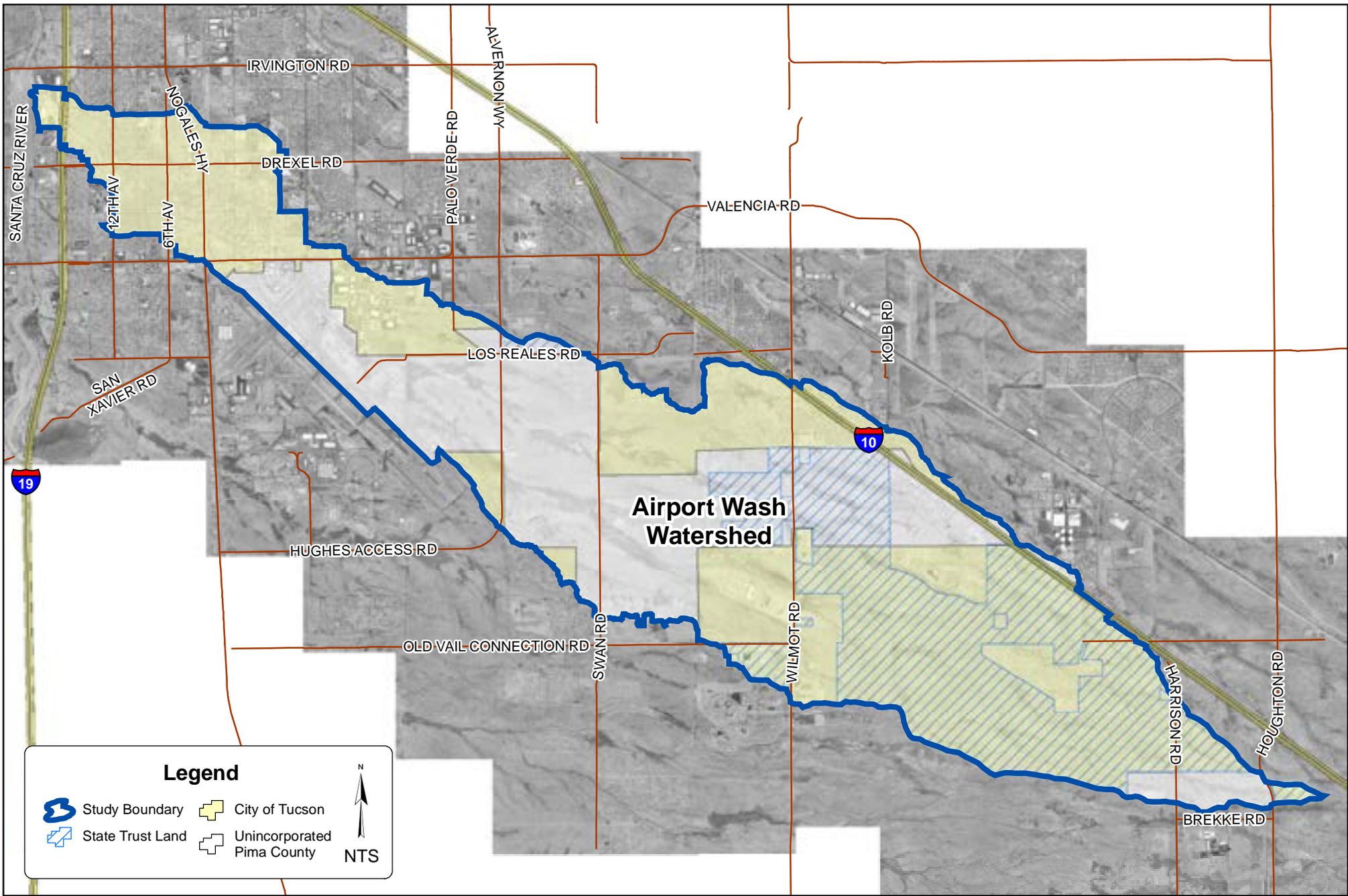
Figure 4 – Existing Land Use Map

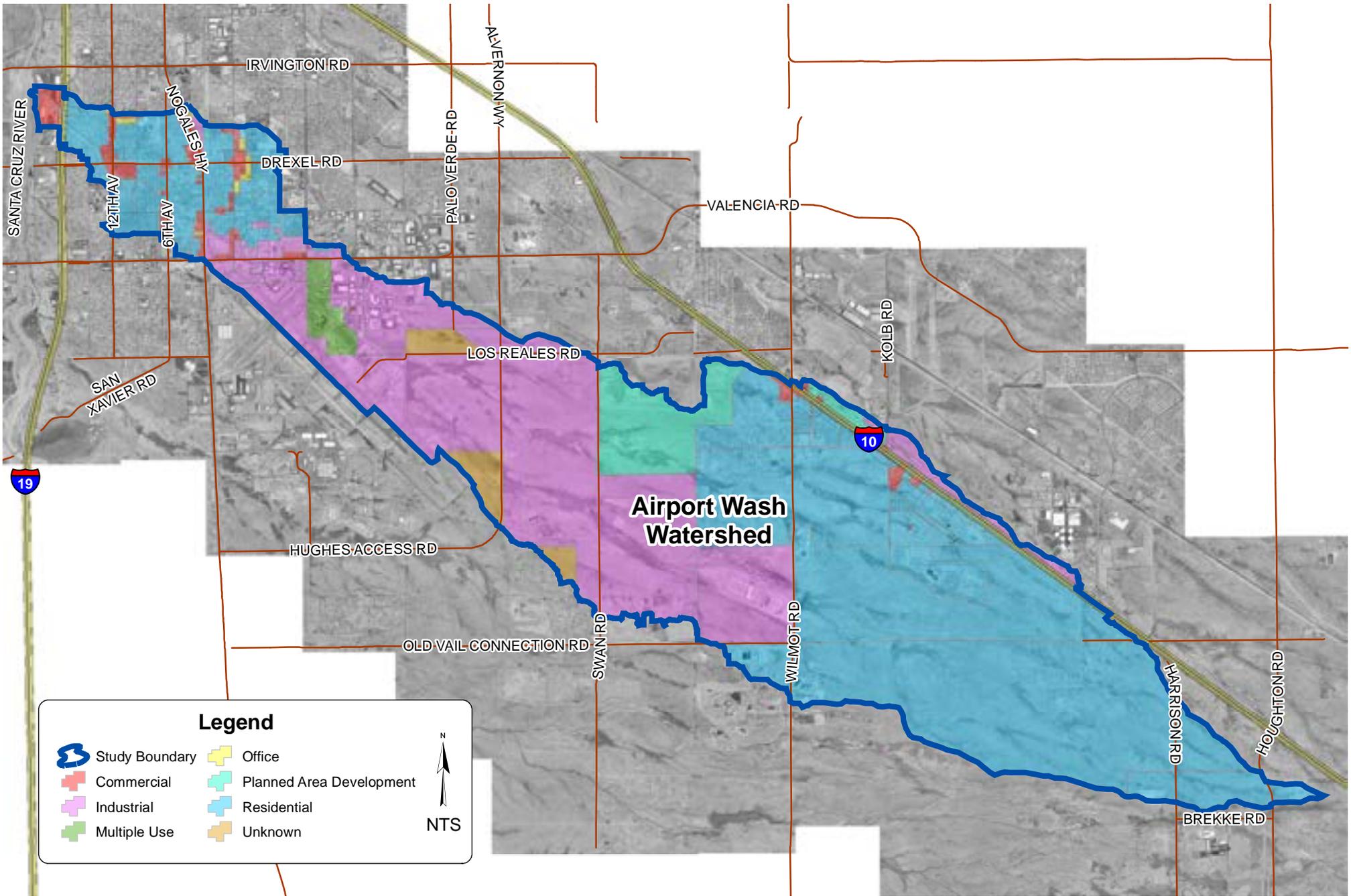
Figure 5 – Future Land Use Map

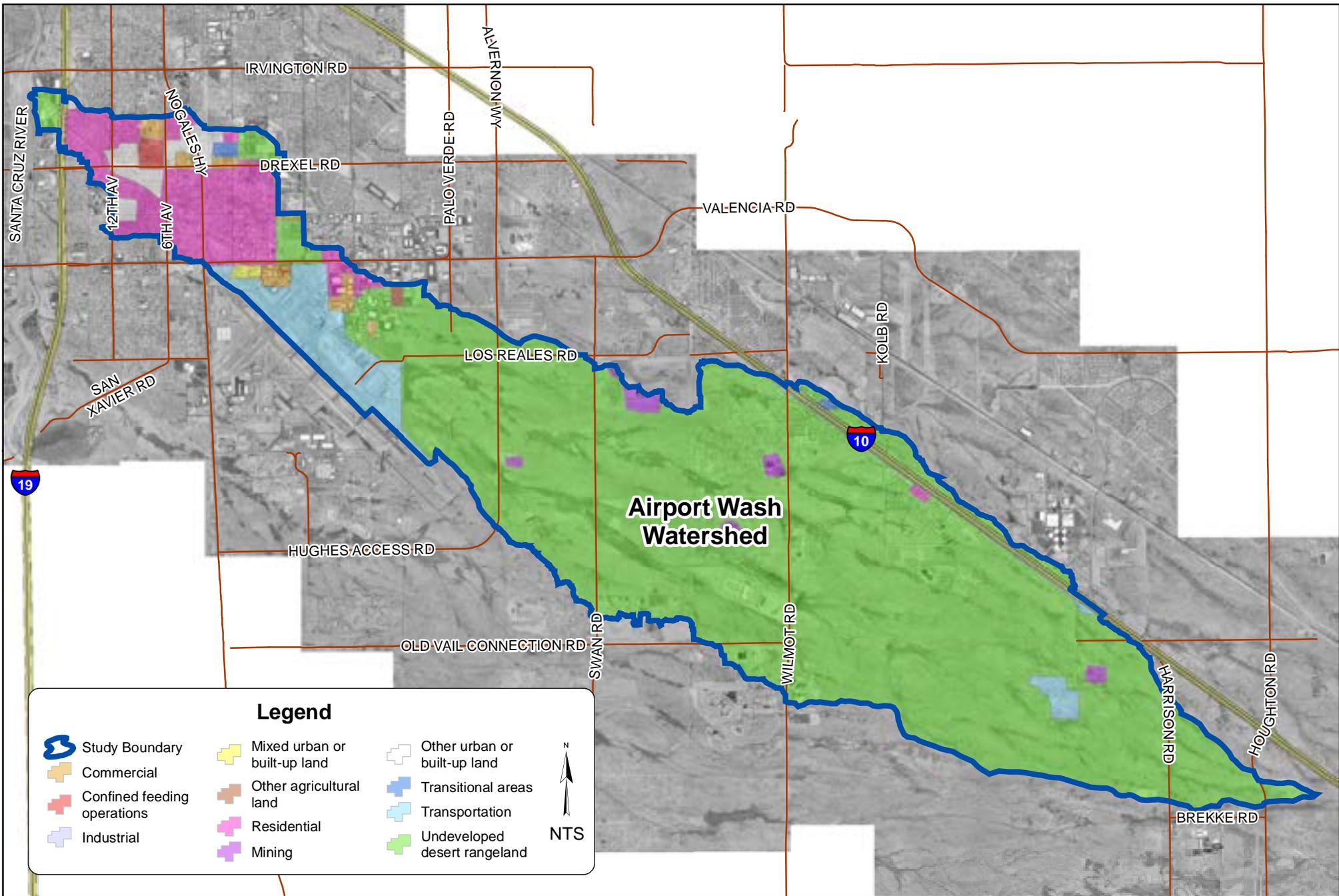
Figure 6 – Regional Transportation Areas Map

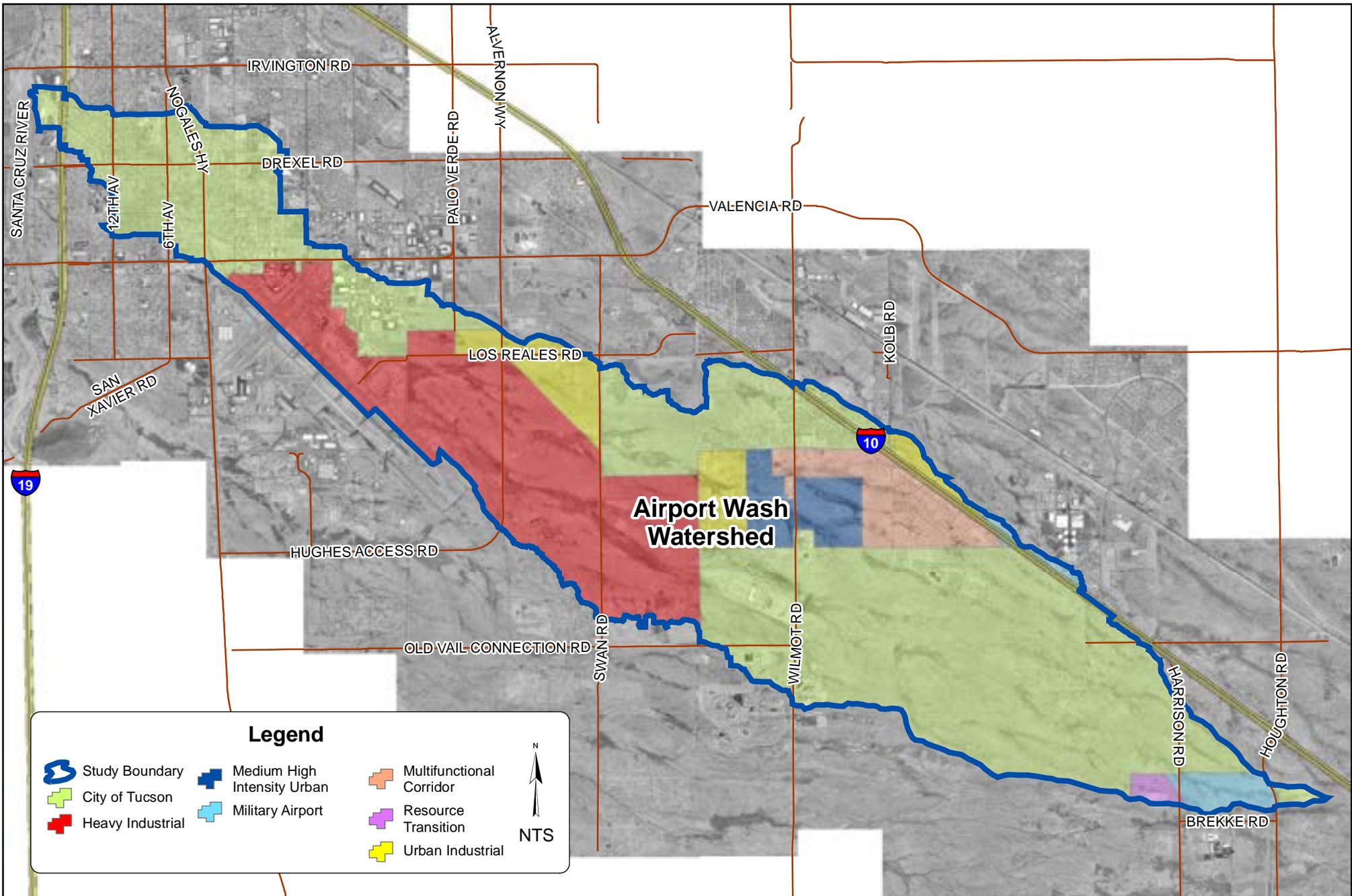
Figure 7 – Data Collection Exhibit

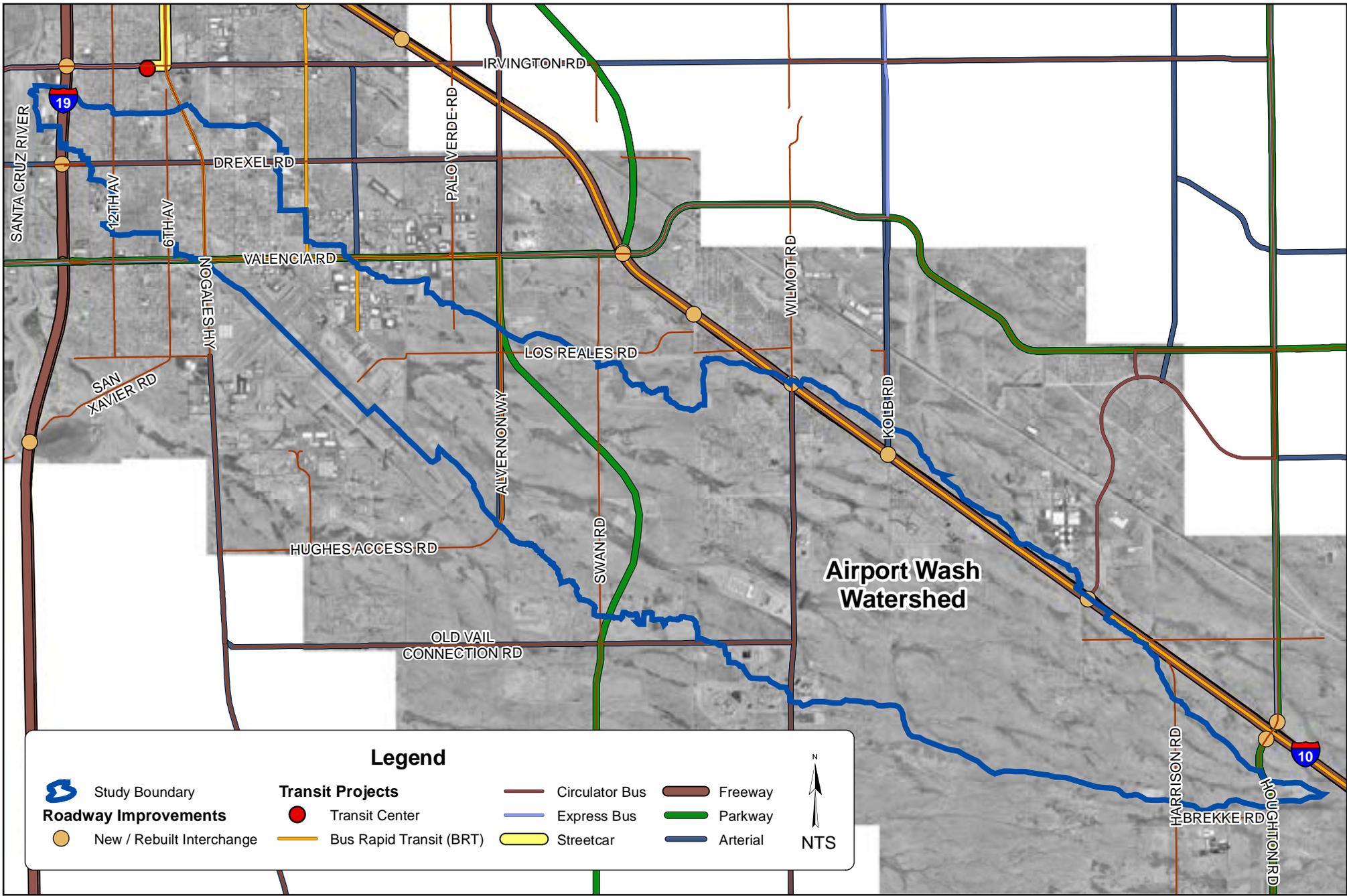
Figure 8 – Drainage Inventory Exhibit

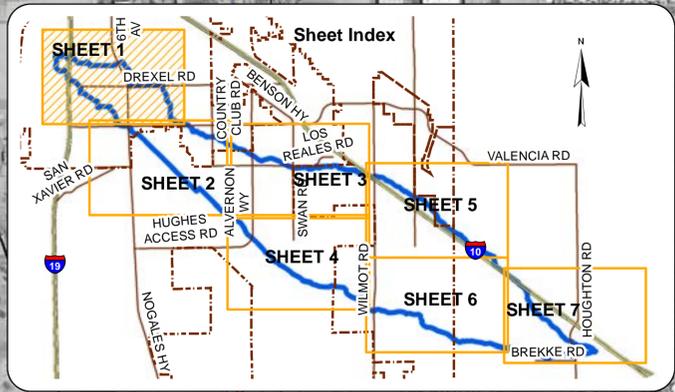
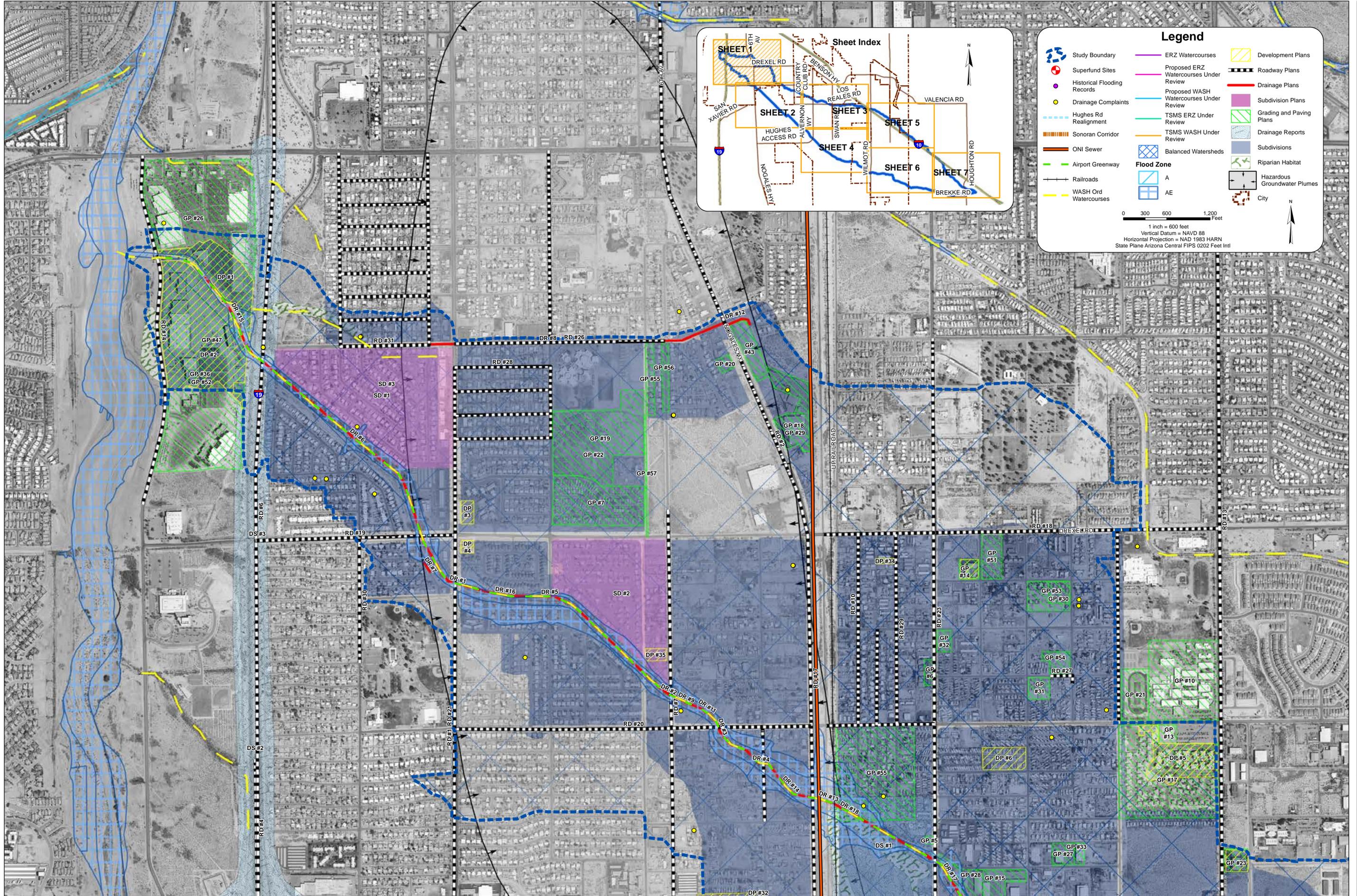












Legend

Study Boundary	ERZ Watercourses	Development Plans
Superfund Sites	Proposed ERZ Watercourses Under Review	Roadway Plans
Historical Flooding Records	Proposed WASH Watercourses Under Review	Drainage Plans
Drainage Complaints	TSMS ERZ Under Review	Subdivision Plans
Hughes Rd Realignment	TSMS WASH Under Review	Grading and Paving Plans
Sonoran Corridor	Balanced Watersheds	Drainage Reports
ONI Sewer	Flood Zone	Subdivisions
Airport Greenway	A	Riparian Habitat
Railroads	AE	Hazardous Groundwater Plumes
WASH Ord Watercourses		City

0 300 600 1,200 Feet
 1 inch = 600 feet
 Vertical Datum = NAVD 88
 Horizontal Projection = NAD 1983 HARN
 State Plane Arizona Central FIPS 0202 Feet Intl

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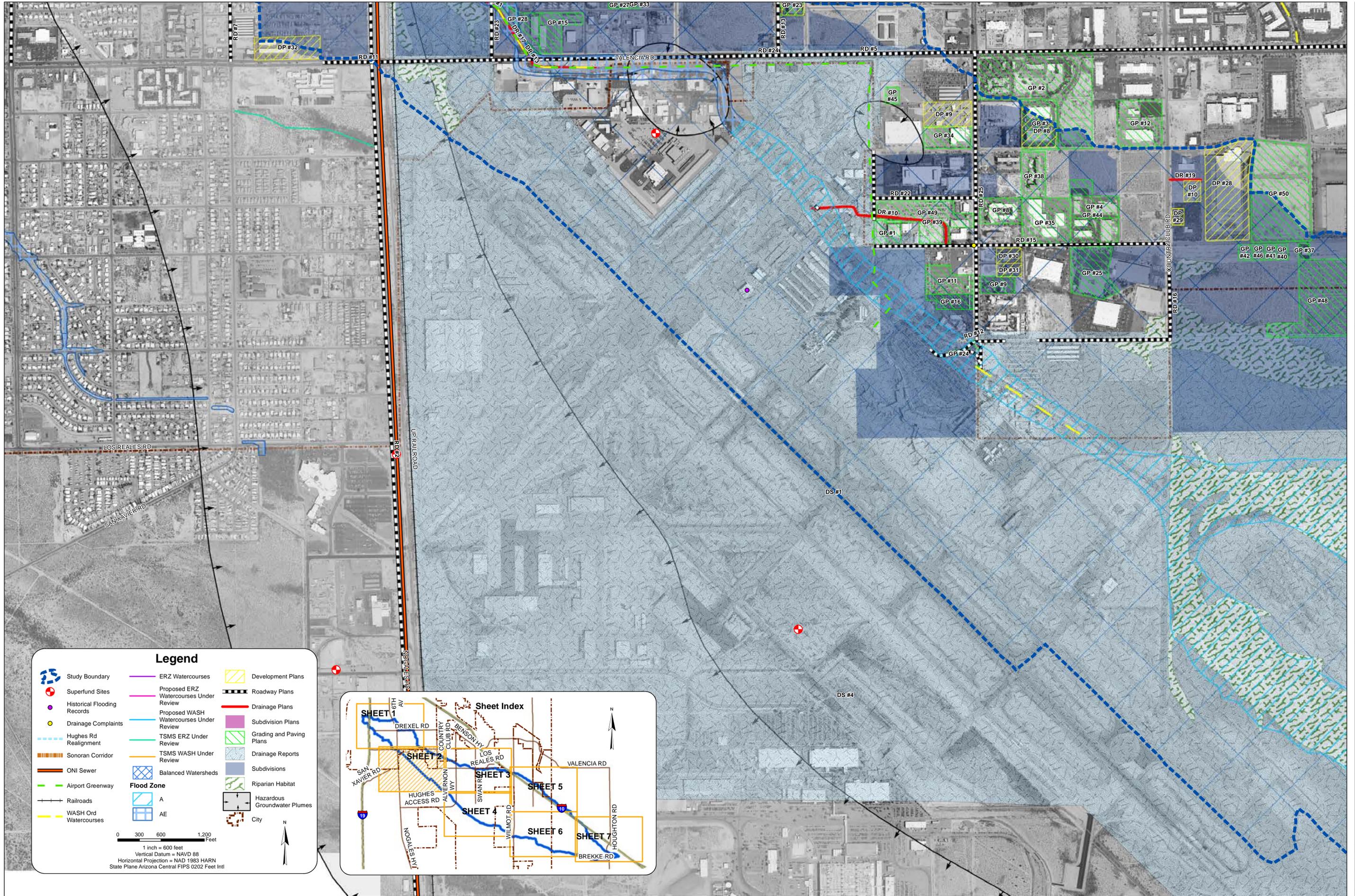
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FIGURE 7
 DATA COLLECTION EXHIBIT
 AIRPORT WASH
 BASIN MANAGEMENT STUDY PHASE 2

PROJECT NO.
098252001

DRAWING NAME
DATA COLLECTION

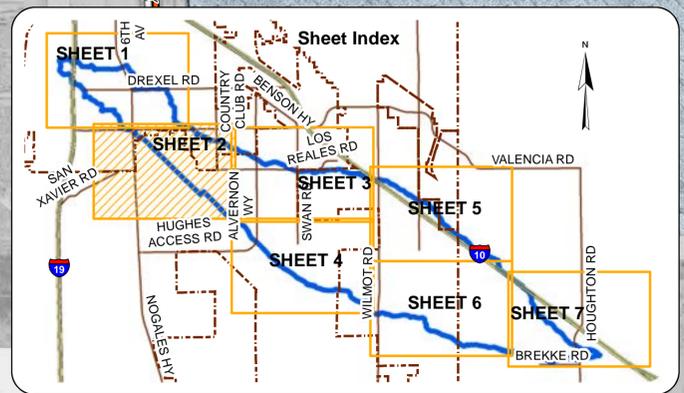
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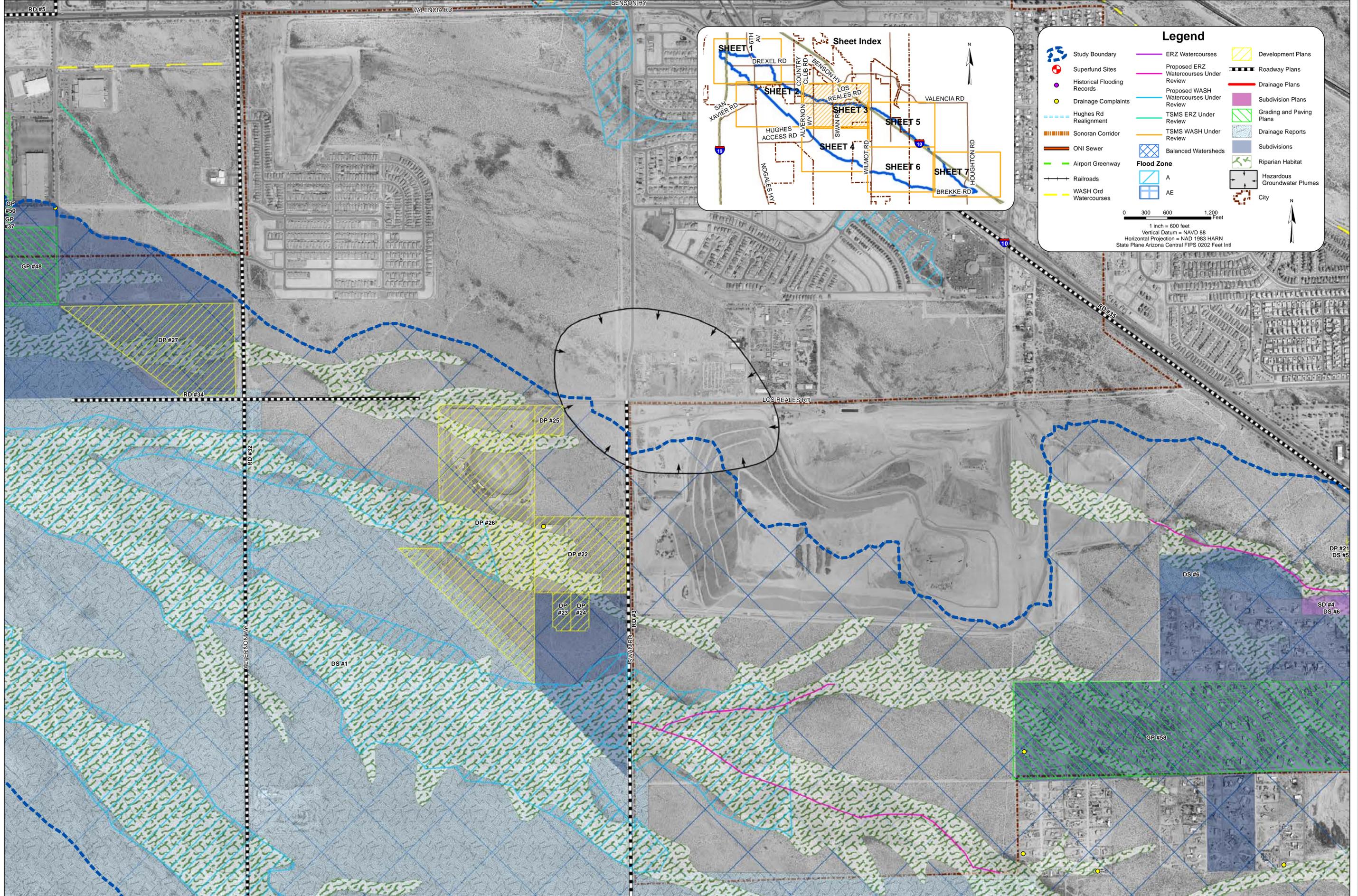


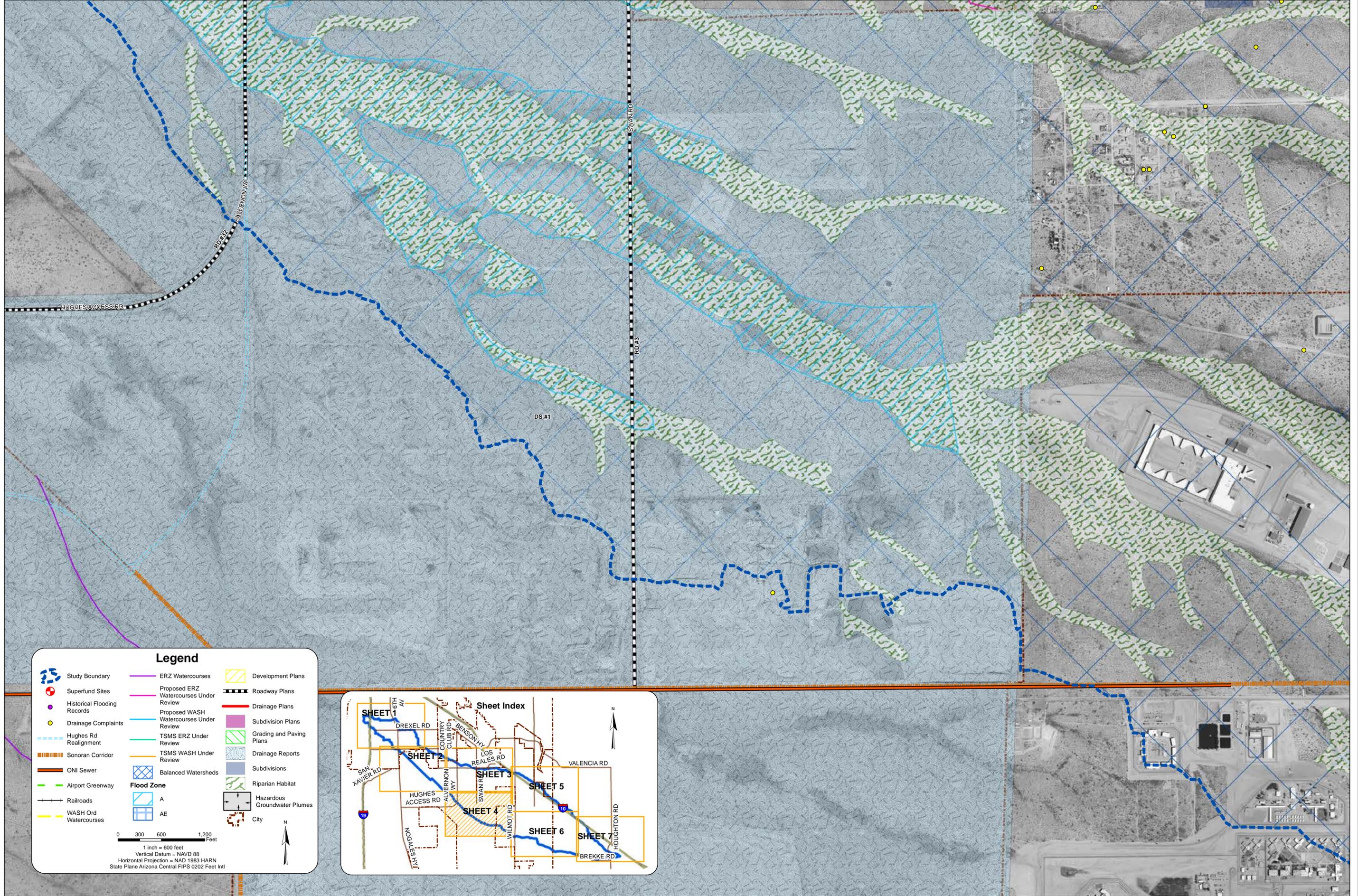
Legend

	Study Boundary		ERZ Watercourses		Development Plans
	Superfund Sites		Proposed ERZ Watercourses Under Review		Roadway Plans
	Historical Flooding Records		Proposed WASH Watercourses Under Review		Drainage Plans
	Drainage Complaints		TSMS ERZ Under Review		Subdivision Plans
	Hughes Rd Realignment		TSMS WASH Under Review		Grading and Paving Plans
	Sonoran Corridor		Balanced Watersheds		Drainage Reports
	ONI Sewer		Flood Zone A		Subdivisions
	Airport Greenway		Flood Zone AE		Riparian Habitat
	Railroads		Hazardous Groundwater Plumes		City
	WASH Ord Watercourses				

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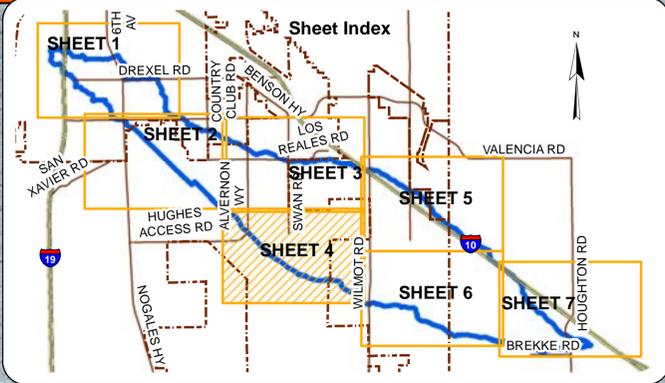




Legend

	Study Boundary		ERZ Watercourses		Development Plans
	Superfund Sites		Proposed ERZ Watercourses Under Review		Roadway Plans
	Historical Flooding Records		Proposed WASH Watercourses Under Review		Drainage Plans
	Drainage Complaints		TSMS ERZ Under Review		Subdivision Plans
	Hughes Rd Realignment		TSMS WASH Under Review		Grading and Paving Plans
	Sonoran Corridor		Balanced Watersheds		Drainage Reports
	ONI Sewer		Flood Zone A		Subdivisions
	Airport Greenway		Flood Zone AE		Riparian Habitat
	Railroads		Hazardous Groundwater Plumes		City
	WASH Ord Watercourses				

0 300 600 1,200 Feet
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Vertical Datum = NAVD 88
Horizontal Projection = NAD 1983 HARN
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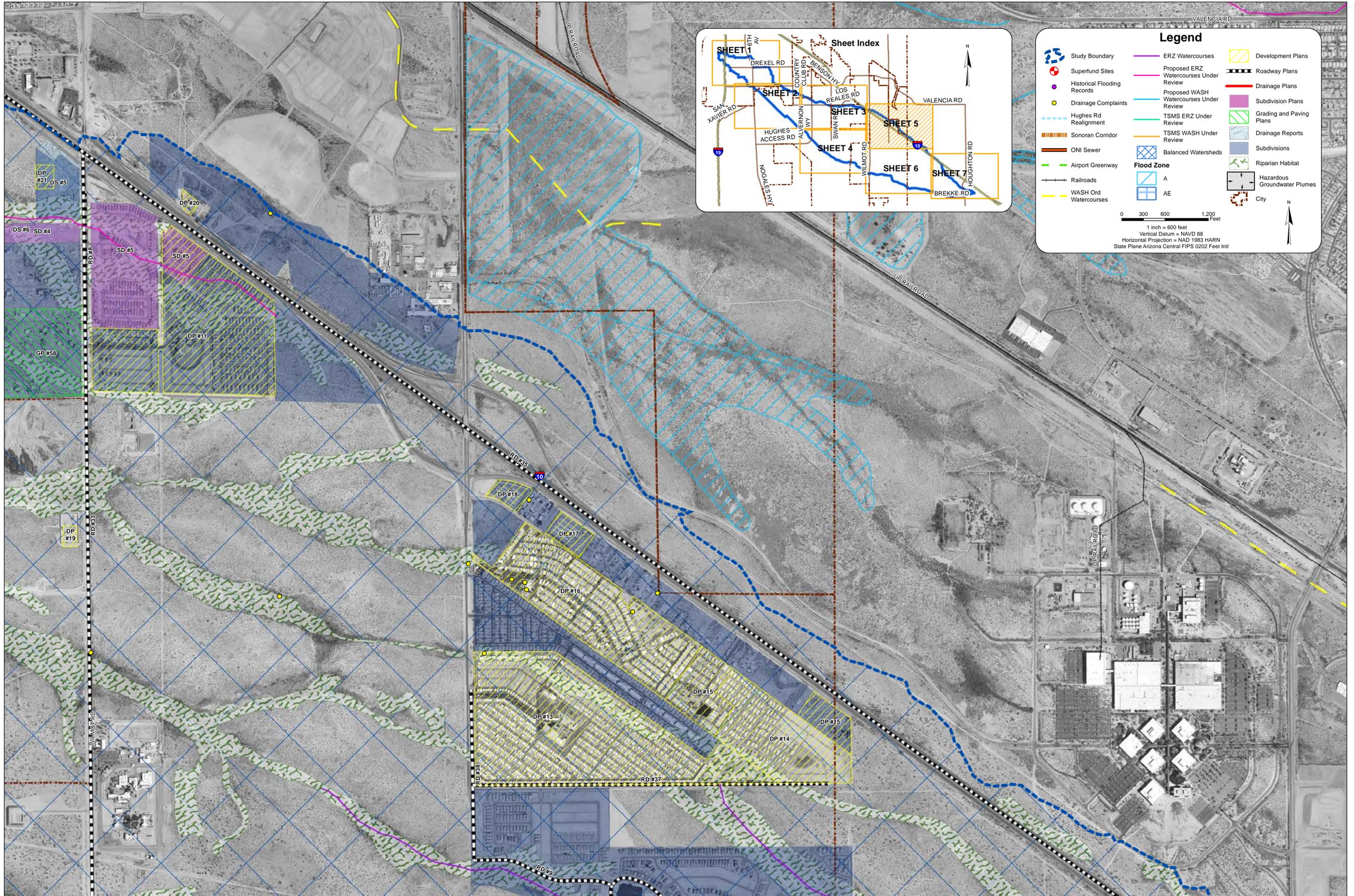
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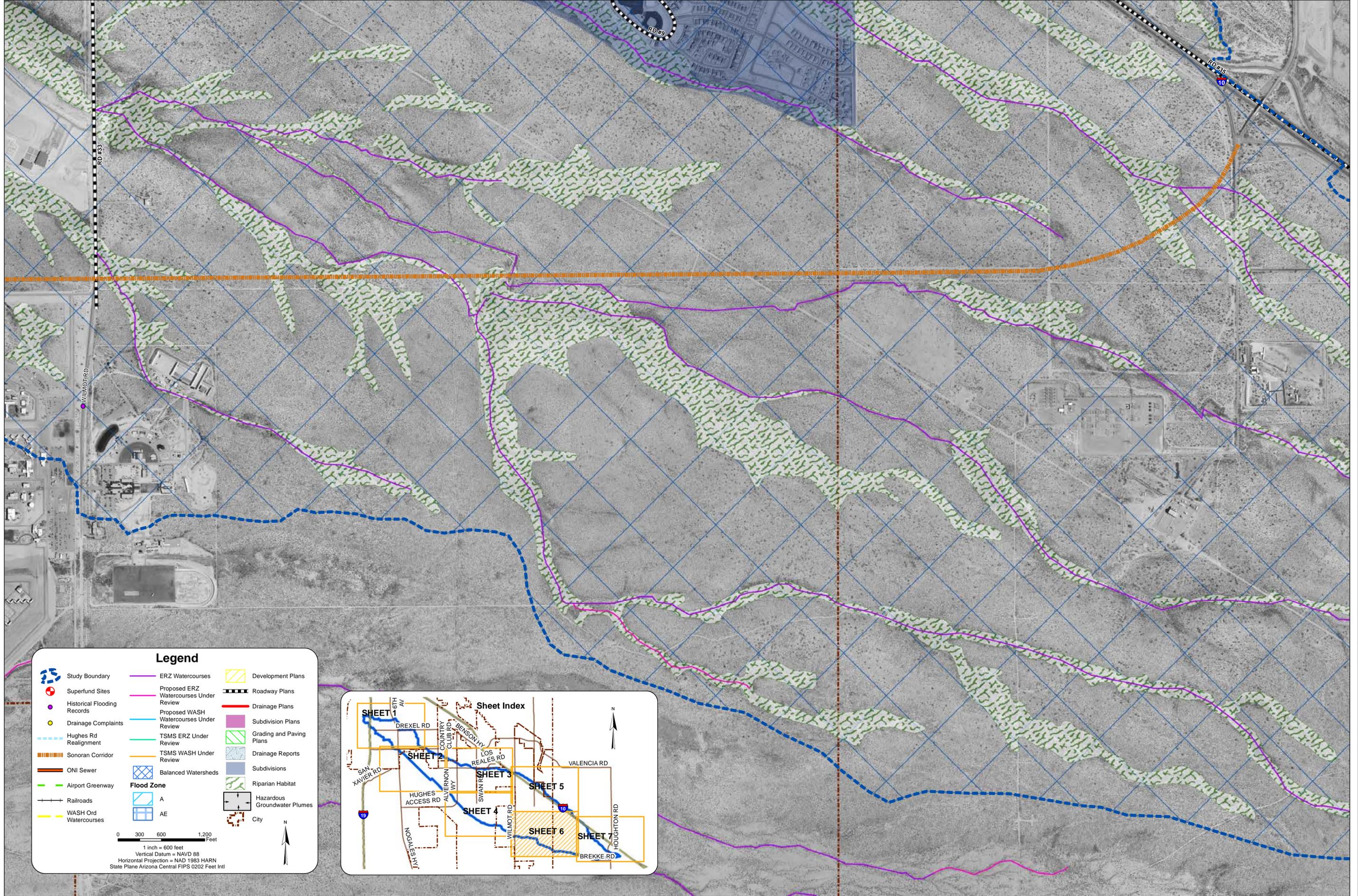
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FIGURE 7
DATA COLLECTION EXHIBIT
AIRPORT WASH
BASIN MANAGEMENT STUDY PHASE 2

PROJECT NO.
098252001
DRAWING NAME
DATA COLLECTION
SHEET 4

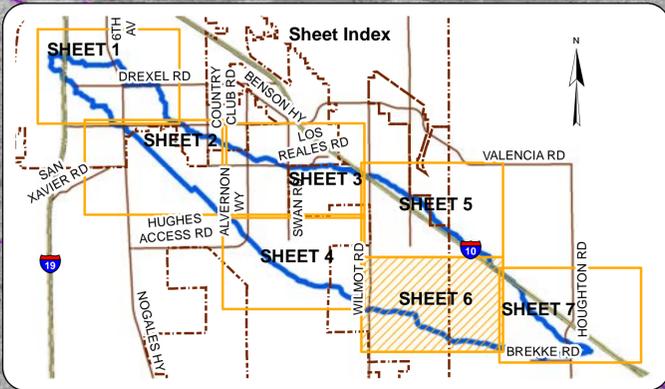




Legend

	Study Boundary		ERZ Watercourses		Development Plans
	Superfund Sites		Proposed ERZ Watercourses Under Review		Roadway Plans
	Historical Flooding Records		Proposed WASH Watercourses Under Review		Drainage Plans
	Drainage Complaints		TSMS ERZ Under Review		Subdivision Plans
	Hughes Rd Realignment		TSMS WASH Under Review		Grading and Paving Plans
	Sonoran Corridor		Balanced Watersheds		Drainage Reports
	ONI Sewer		Flood Zone A		Subdivisions
	Airport Greenway		Flood Zone AE		Riparian Habitat
	Railroads		Hazardous Groundwater Plumes		City
	WASH Ord Watercourses				

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1 inch = 600 feet
Vertical Datum = NAVD 88
Horizontal Projection = NAD 1983 HARN
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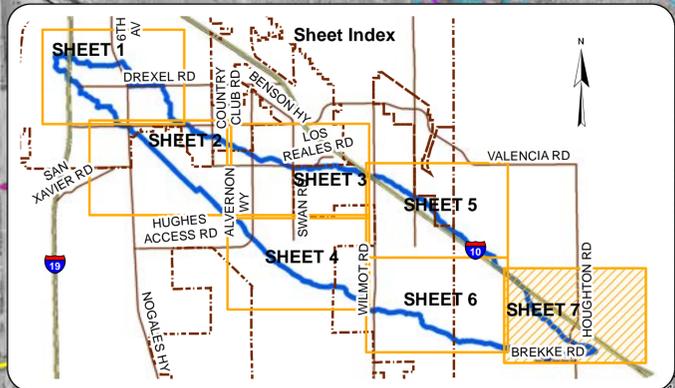
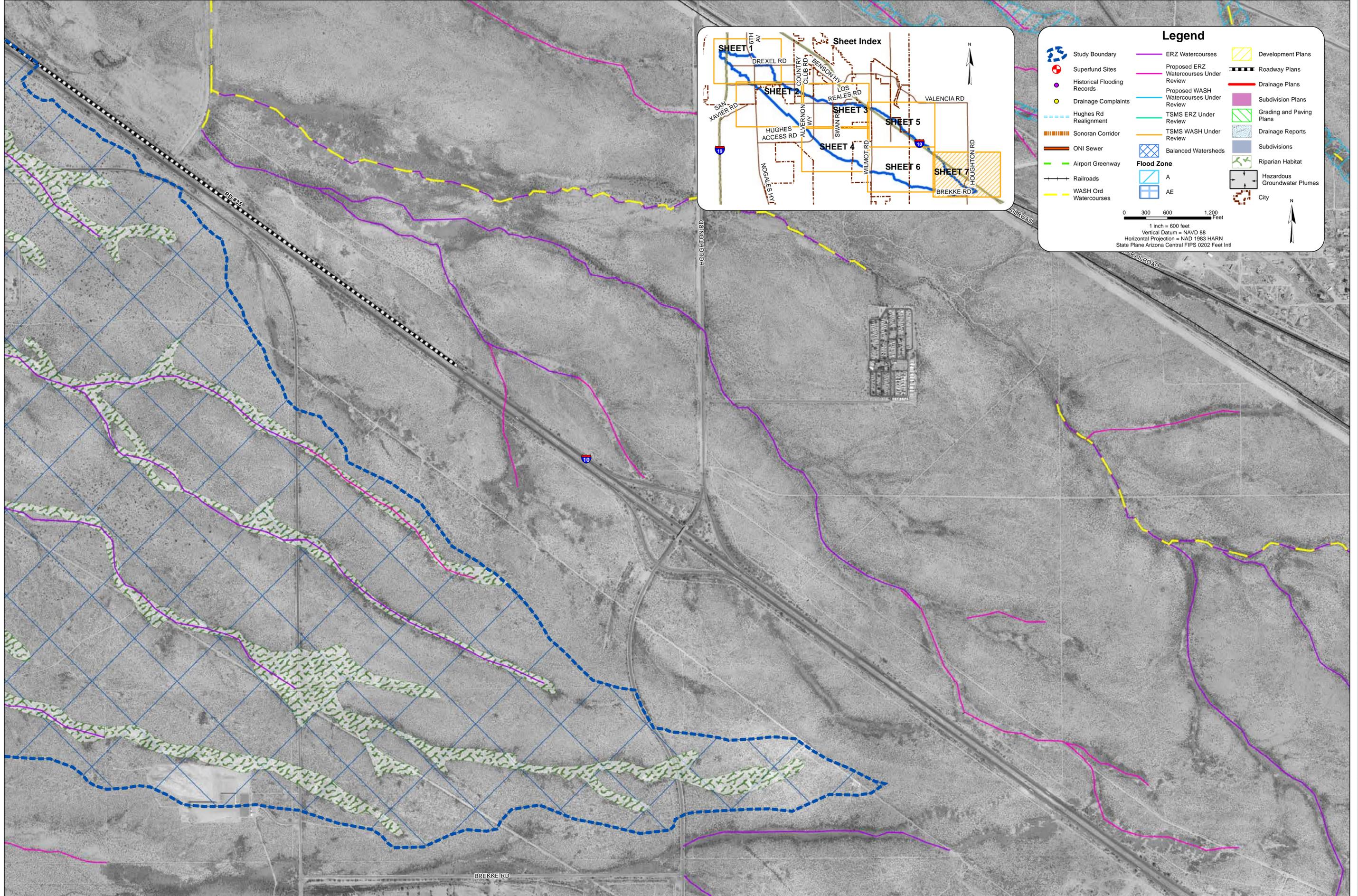
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FIGURE 7
DATA COLLECTION EXHIBIT
AIRPORT WASH
BASIN MANAGEMENT STUDY PHASE 2

PROJECT NO.
098252001
DRAWING NAME
DATA COLLECTION
SHEET 6



Legend

Study Boundary	ERZ Watercourses	Development Plans
Superfund Sites	Proposed ERZ Watercourses Under Review	Roadway Plans
Historical Flooding Records	Proposed WASH Watercourses Under Review	Drainage Plans
Drainage Complaints	TSMS ERZ Under Review	Subdivision Plans
Hughes Rd Realignment	TSMS WASH Under Review	Grading and Paving Plans
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Railroads	AE	Hazardous Groundwater Plumes
WASH Ord Watercourses		City

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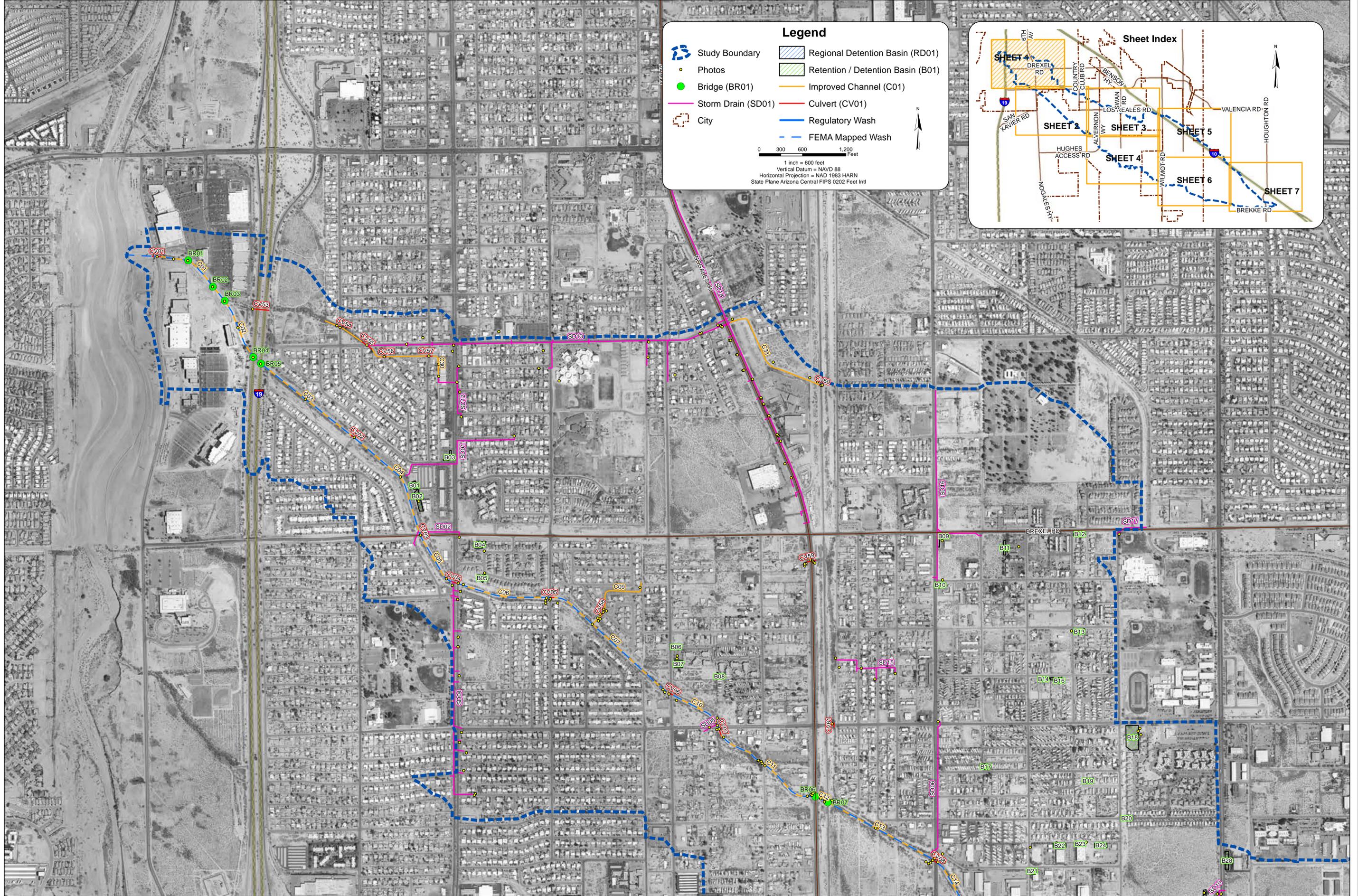
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FIGURE 7
DATA COLLECTION EXHIBIT
AIRPORT WASH
BASIN MANAGEMENT STUDY PHASE 2

PROJECT NO.
098252001

DRAWING NAME
DATA COLLECTION

SHEET 7



Legend

- Study Boundary
- Photos
- Bridge (BR01)
- Storm Drain (SD01)
- City
- Regional Detention Basin (RD01)
- Retention / Detention Basin (B01)
- Improved Channel (C01)
- Culvert (CV01)
- Regulatory Wash
- FEMA Mapped Wash

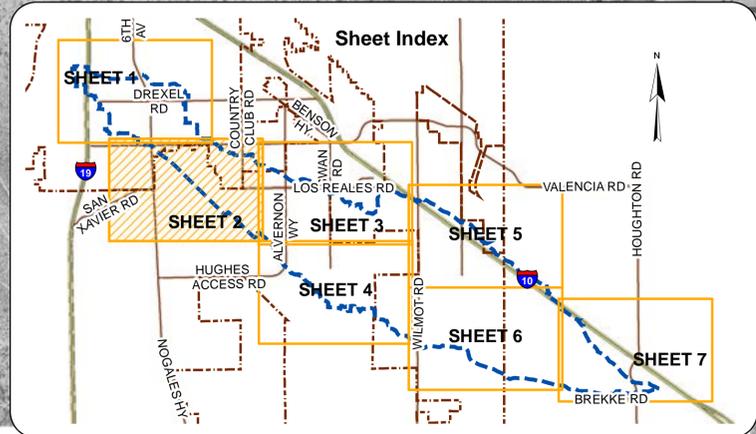
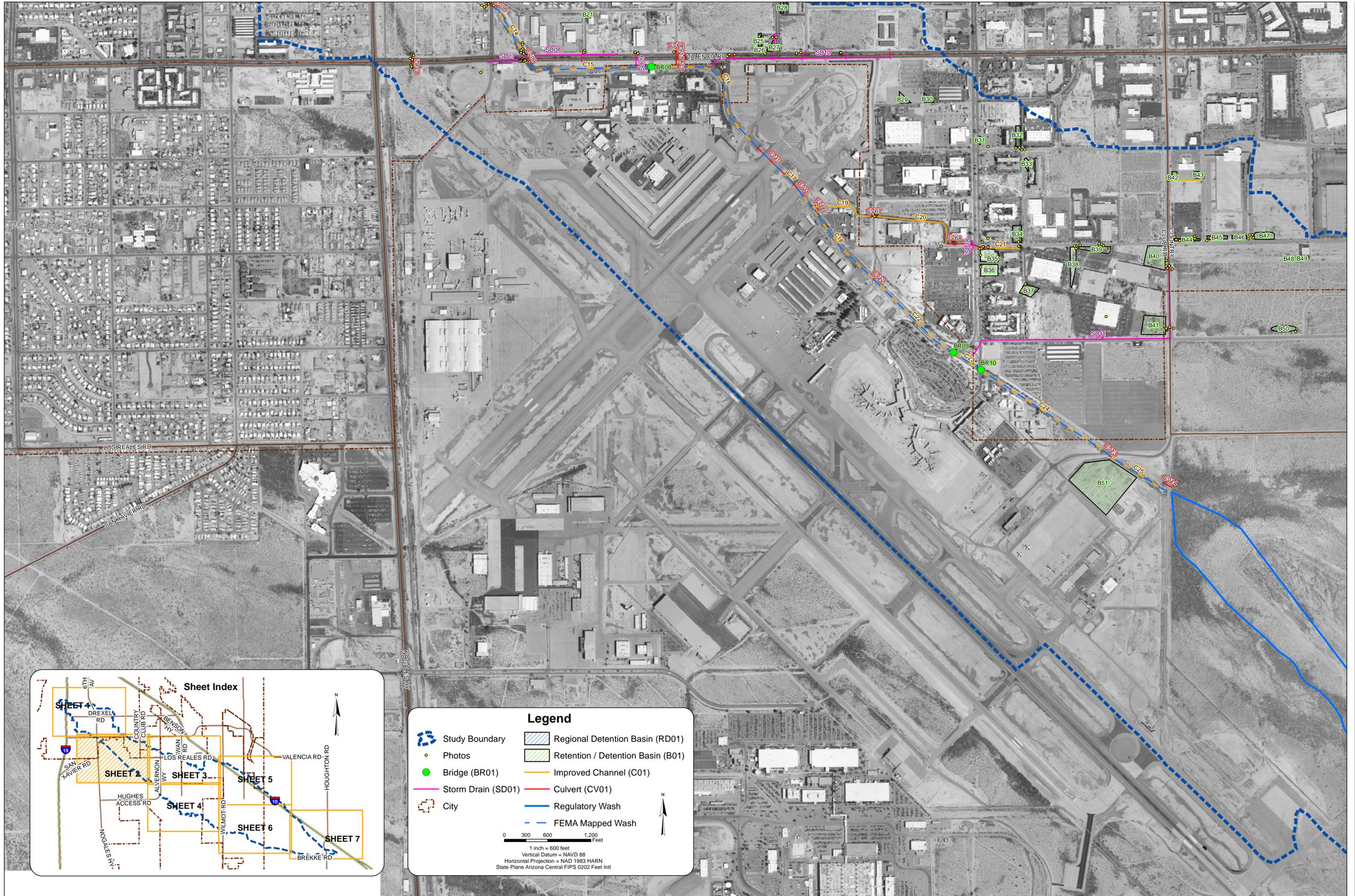
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Sheet Index

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FIGURE 8
DRAINAGE INVENTORY EXHIBIT
AIRPORT WASH
BASIN MANAGEMENT STUDY PHASE 2



Legend

Study Boundary	Regional Detention Basin (RD01)
Photos	Retention / Detention Basin (B01)
Bridge (BR01)	Improved Channel (C01)
Storm Drain (SD01)	Culvert (CV01)
City	Regulatory Wash
	FEMA Mapped Wash

0 300 600 1,200 Feet

1 inch = 600 feet
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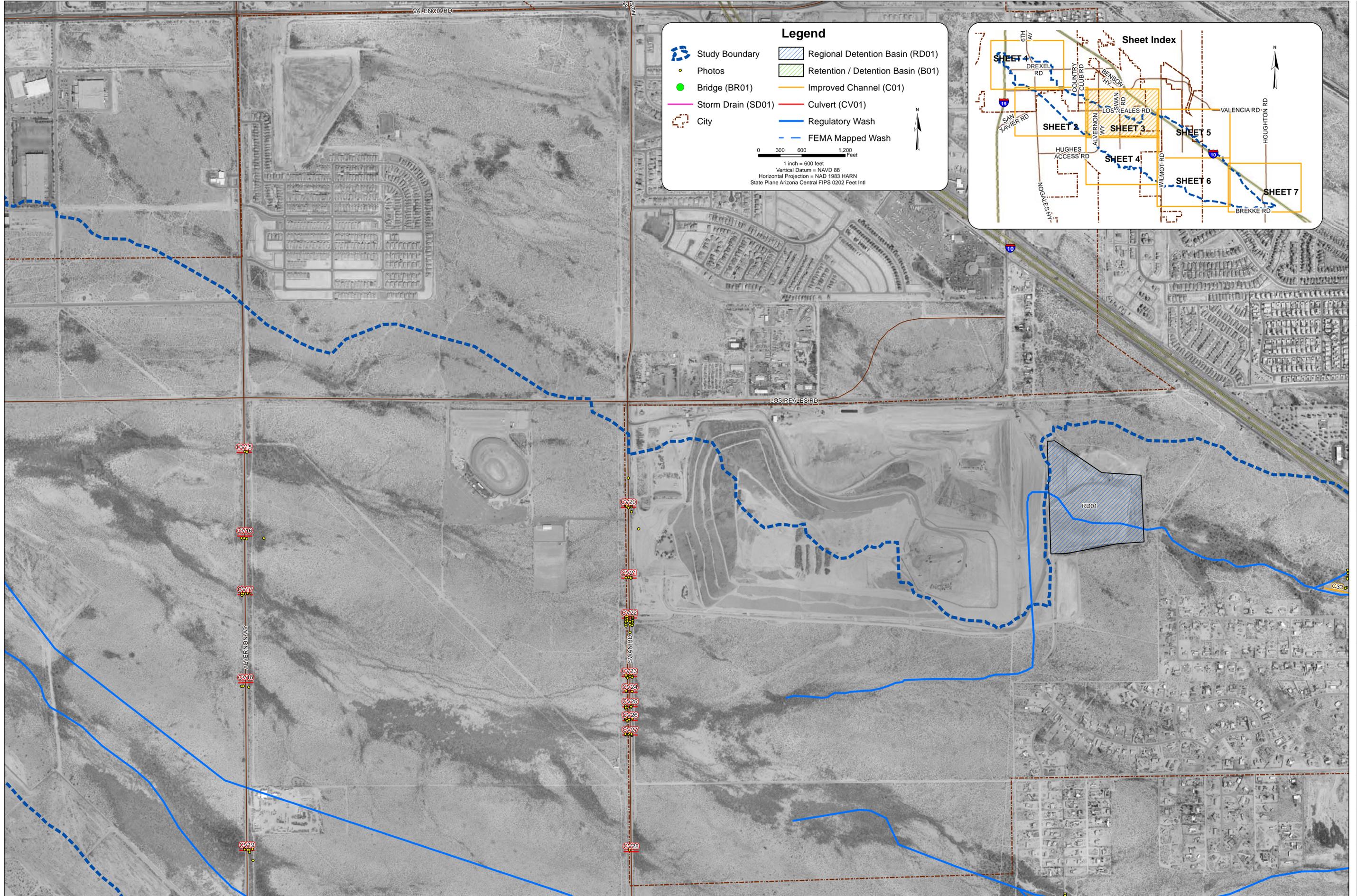
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FIGURE 8
DRAINAGE INVENTORY EXHIBIT
AIRPORT WASH
BASIN MANAGEMENT STUDY PHASE 2

PROJECT NO.
098252001

DRAWING NAME
DRAINAGE INVENTORY

SHEET 2



Legend

- Study Boundary
- Photos
- Bridge (BR01)
- Storm Drain (SD01)
- City
- Regional Detention Basin (RD01)
- Retention / Detention Basin (B01)
- Improved Channel (C01)
- Culvert (CV01)
- Regulatory Wash
- FEMA Mapped Wash

0 300 600 1,200 Feet

1 inch = 600 feet
Vertical Datum = NAVD 88
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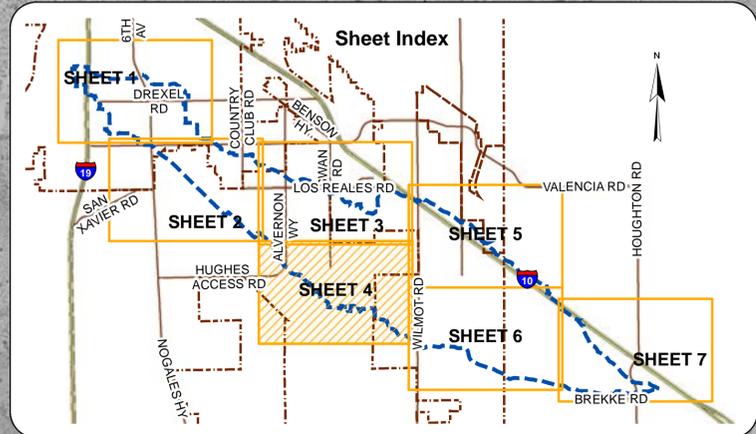
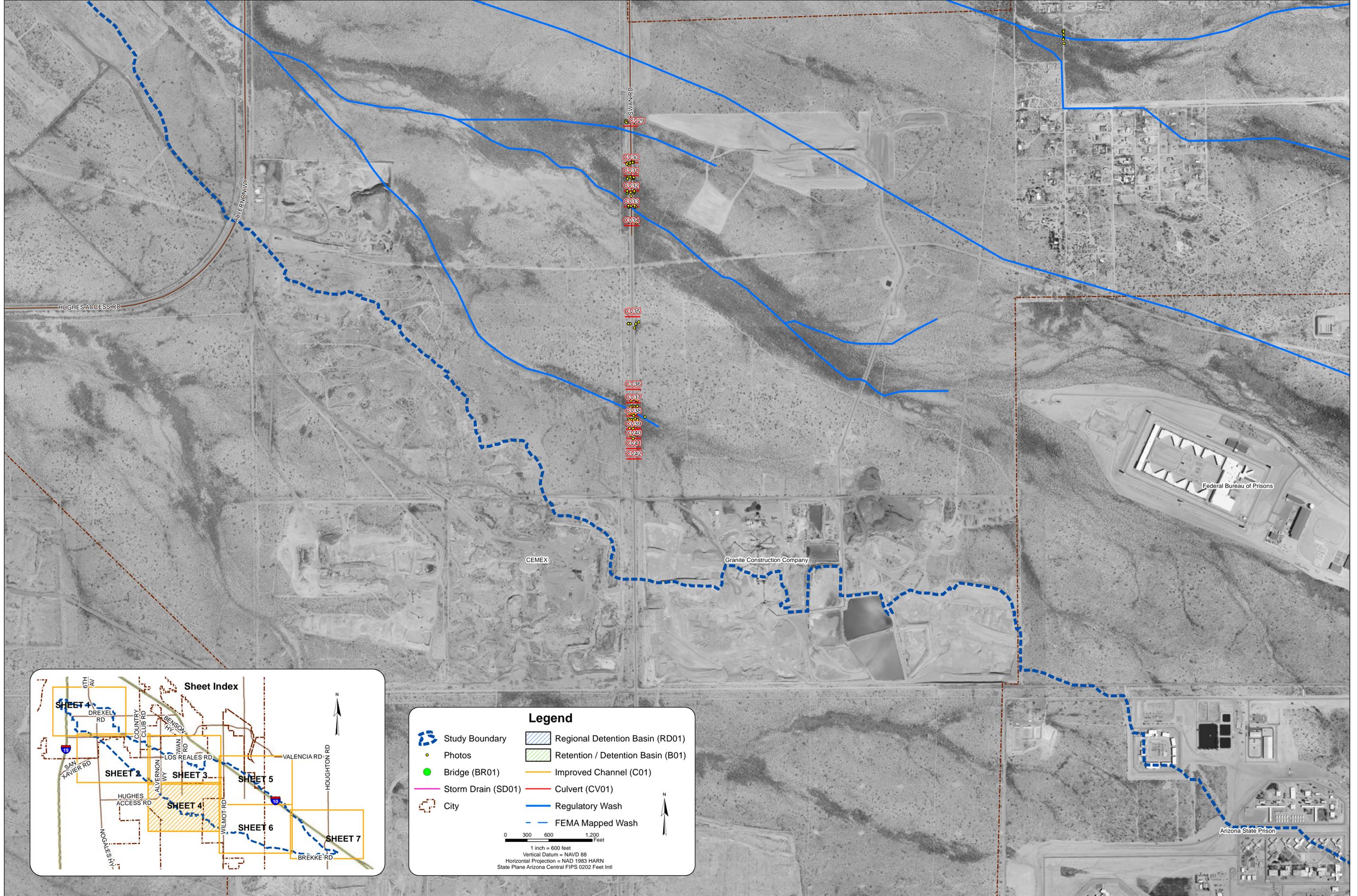
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DATE: FEB 2016

FIGURE 8
DRAINAGE INVENTORY EXHIBIT
AIRPORT WASH
BASIN MANAGEMENT STUDY PHASE 2

PROJECT NO.
098252001

DRAWING NAME
DRAINAGE INVENTORY

SHEET 3



Legend

- Study Boundary
- Photos
- Bridge (BR01)
- Storm Drain (SD01)
- City
- Regional Detention Basin (RD01)
- Retention / Detention Basin (B01)
- Improved Channel (C01)
- Culvert (CV01)
- Regulatory Wash
- FEMA Mapped Wash

1 inch = 600 feet
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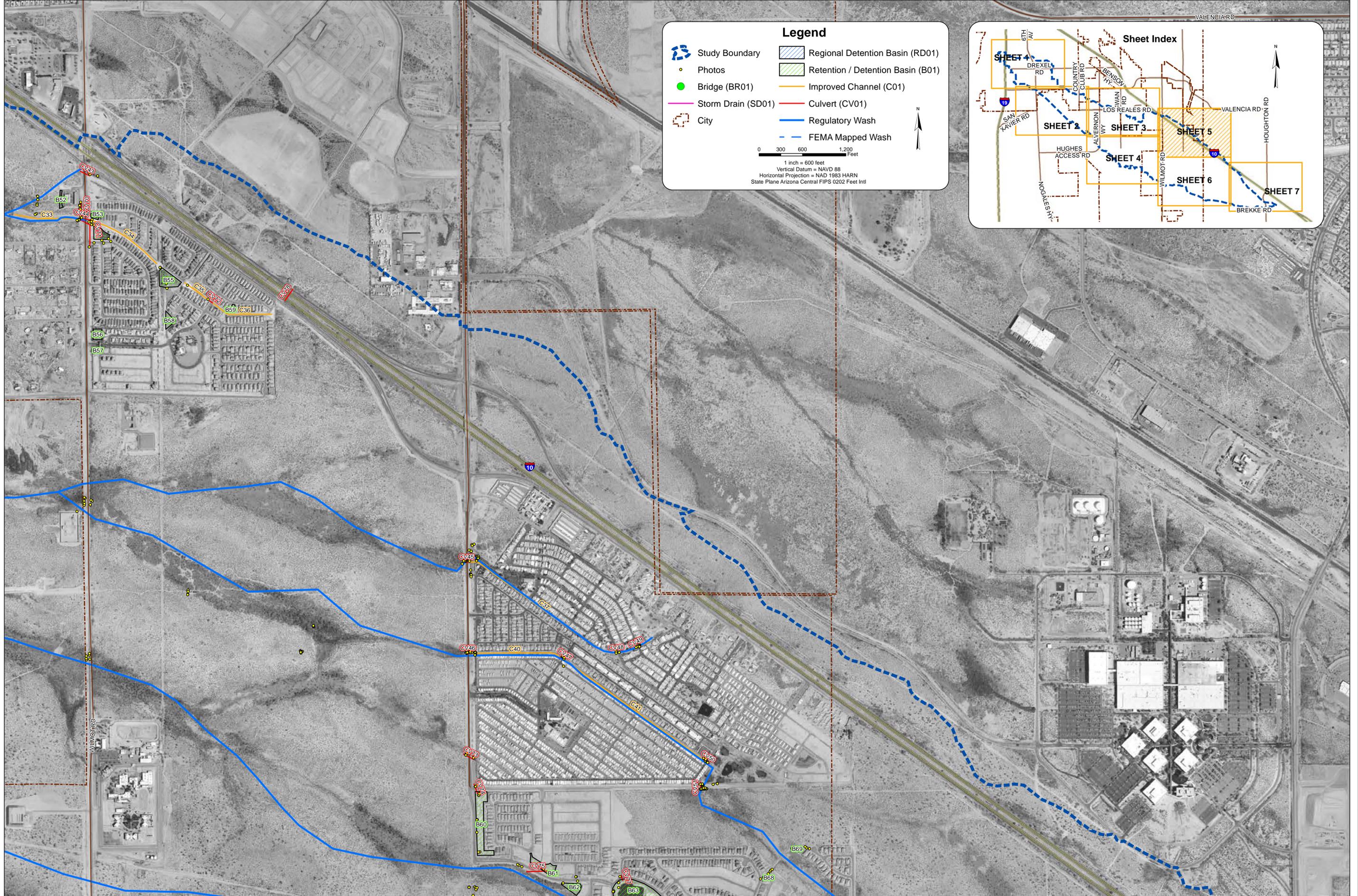
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FIGURE 8
DRAINAGE INVENTORY EXHIBIT
AIRPORT WASH
BASIN MANAGEMENT STUDY PHASE 2

PROJECT NO.
098252001

DRAWING NAME
DRAINAGE INVENTORY

SHEET 4



Legend

- Study Boundary
- Photos
- Bridge (BR01)
- Storm Drain (SD01)
- City
- Regional Detention Basin (RD01)
- Retention / Detention Basin (B01)
- Improved Channel (C01)
- Culvert (CV01)
- Regulatory Wash
- FEMA Mapped Wash

1 inch = 600 feet
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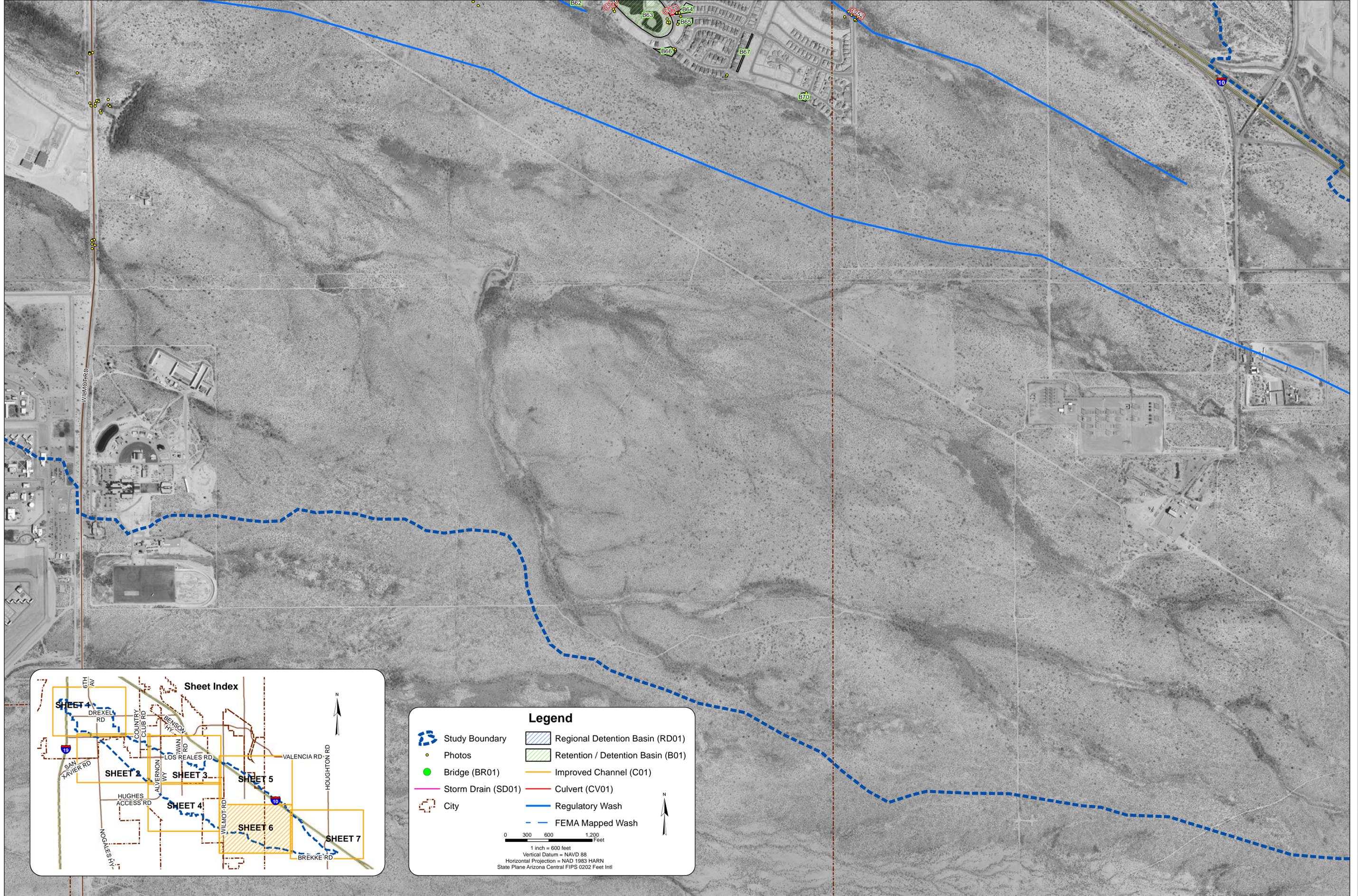
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FIGURE 8
DRAINAGE INVENTORY EXHIBIT
AIRPORT WASH
BASIN MANAGEMENT STUDY PHASE 2

PROJECT NO.
 098252001

DRAWING NAME
 DRAINAGE INVENTORY

SHEET 5



Appendix B – Supporting Documentation

Roadway Crossings Summary

Pima County Drainage Complaints

Roadway Crossings Summary

ROADWAY MAINTENANCE CONCERNS				
ROADWAY CROSSING	TYPE	SIZE	SEDIMENTATION	EROSION
CV01	RCBC	5-12'X10'	No	No
CV02	RCBC	6-12'X10'	Yes	No
CV03	RCBC	6-7'X12'	Yes	Yes
CV04	RCBC	6-12'X7'	Yes	Yes
CV05	RCBC	6-12'X10'	Yes	No
CV06	RCBC	6-7'X12'	No	Yes
CV07	RCBC	6-7'X12'	No	Yes
CV08	RCBC	6-12'X7'	No	Yes
CV09	RCBC	6-12'X6'	No	Yes
CV10	RCBC	9-10'X6'	No	No
CV11	RCBC	9-10'X6'	No	No
CV12	RCBC	7-10'X6'	No	No
CV13	RCBC	6-8'X10'	No	No
CV15	RCBC	2-10'X4'	No	Yes
CV16	CMPA	58"X36"	No	Yes
CV17	RCBC	4-10'X5'	Yes	Yes
CV18	CMPA	3- 43"X27"	No	Yes
CV19	RCBC	6-10'x4'	Yes	No
CV20	CMP	4-48"	Yes	No
CV21	CMP	1-48"	Yes	No
CV22	ACMP	14-72"X44"	Yes	No
CV23	ACMP	3-72"X44"	Yes	No
CV24	ACMP	3-72"X44"	Yes	No
CV25	ACMP	3-72"X44"	Yes	No
CV26	ACMP	3-72"X44"	Yes	No
CV27	ACMP	3-72"X44"	Yes	No
CV28	ACMP	3-72"X44"	Yes	No
CV29	ACMP	3-72"X44"	Yes	No
CV30	ACMP	3-72"X44"	Yes	No
CV31	ACMP	3-72"X44"	Yes	No
CV32	ACMP	3-72"X44"	Yes	No
CV33	ACMP	3-72"X44"	Yes	No
CV34	ACMP	3-72"X44"	Yes	Yes
CV35	CMP	2-36"	Yes	Yes
CV36	ACMP	1-72"X44"	Yes	No
CV37	ACMP	1-72"X44"	Yes	No
CV38	ACMP	1-72"X44"	Yes	No
CV39	ACMP	1-72"X44"	Yes	No
CV40	ACMP	1-72"X44"	Yes	No
CV41	ACMP	1-72"X44"	Yes	No
CV42	ACMP	1-72"X44"	Yes	No
CV43	CMP	1-48"	Yes	No
CV44	RCBC	2-8'X4'	Yes	No
CV45	CMP	4-48"	Yes	No

ROADWAY MAINTENANCE CONCERNS				
ROADWAY CROSSING	TYPE	SIZE	SEDIMENTATION	EROSION
CV46	RCBC	3-10'x3'	Yes	No
CV47	CMP	2-8" and 1-10"	No	No
CV48	RCBC	2-8'X3'	Yes	No
CV49	RCBC	2-8'X3'	Yes	No
CV50	RCBC	4-6'X3'	No	No
CV51	CMP	13-42"	Yes	No
CV52	RCBC	10-10'x3'	No	No
CV53	RCBC	2-10'X5'	No	Yes
CV54	CMP	2-60"	No	Yes
CV55	CMP	1-72"X44"	Yes	No
CV56	CMP	2-50"X31"	No	No
CV57	CMP	2-43"X27"	Yes	No
CV58	RCBC	1-3'6"X11'	No	No
CV59	RCBC	1-4'X7'	Yes	No
CV60	CMP	3-48"	Yes	No
CV61	RCP	24"X38"	Yes	No
CV62	RCP	2-38"x24"	Yes	No
CV67	RCBC	2-10'X4'	Yes	No
CV68	RCBC	2-8'X4'	Yes	No
CV70	RCP	2-18"	Yes	No
CV71	RCP	1-24"X38"	No	No
CV72	RCBC	2-10'X4'	No	No
CV73	CMP	7-30"	Yes	No
CV74	CMP	7-30"	No	No
CV75	RCP	2-24"	No	No
CV76	CONCRETE ARCH	4-22.75"X35.75"	Yes	No
CV77	CONCRETE ARCH	2-2.25'X3.23'	Yes	No
CV78	RCBC	2-6'X3' RCBC	Yes	No
CV79	CMP	3-36"	No	No
BR01	Single Span	--	No	No
BR02	Single Span	--	No	No
BR03	Single Span	--	No	No
BR04	4-Span	--	No	No
BR05	4-Span	--	No	No
BR06	4-Span	--	No	Yes
BR07	5-Span	--	Yes	Yes
BR08	2-Span	--	No	No
BR09	2-Span	--	No	No
BR10	2-Span	--	No	No

Pima County Drainage Complaints

Number	DATE_IN	Date Out	TRS	Code	Status	SUSPECT	SUSPECT_AD	Notes
00100	5/5/00	6/1/00	E151404	FGE	LOGO			Chronic flooding problem when water pipe broke 2 years ago. Needs advice so tenants don't flood. LOGO: County has CIP planned, but no date as to when it will happen.
00116	5/18/00	6/1/00	E151404	FGE	LOGO			Needs advice, water pipe broke on her rental property wants to know what she can do to make it better for her tenants. Henry said he would look at this. LOGO: See 00-116 for details.
00300	8/28/00	7/31/02	E151404	FEN	LOGO			Shop has placed cement rubble along perimeter fence blocking and diverting flow. LOGO: No action taken.
00417	11/8/00	7/23/02	E151409	DIR	LOGO			New development to the east of the school has constructed drainage ways which directs water onto Alvord Rd. causing problems for the bus bays. LOGO; No Action Taken As Of July 23, 2002.
00437	11/24/00	7/31/02	E151409	CDF	LOGO	NA	NA	Owner/contractor installed drainage pipe & is back filling. LOGO: no action taken
01012	1/18/01	1/18/02	E151416	DDF	LOGO			Drainage ditch is clogged - east of apt where Valencia meet drainage ditch at Cmo. De La Tierra. No action taken
01086	4/20/01	4/24/01	E151409	MIS	LOGO			The speed bump on the eastern driveway of Chaparral Jr. High has been removed. Now runoff will impact his property (see Terry). LOGO: researched problem, private property, does not affect 100yr flow, letter no action.
01089	4/30/01	5/1/01	E151425	TRS	LOGO			Vegetation (poison oak) on his property & adjacent parcels. LOGO: All private property, no public drainages or regular washes referred complaint to master Gardner atcoop extension(XXX-XXXX) for advice.
01124	6/22/01	7/3/01	E151409	DCF	LOGO	SUNNYSIDE SCHOOL DISTRICT NO 12	3700 E ALVORD RD	The school is re-paving their parking lot. Sunnyside school district is to give the plans to Terry H. LOGO: Letter sent to Mr. Hays.
01164	7/31/01	10/17/02	E151409	BDF	LOGO			Ever since CARAVAN INC. started construction, water is being diverted onto her MH Park and flooding lots, pads & utilities on the eastside. She had complained before to grading & zoning and nothing wash ever done. WANTS TO MEET WITH HYDROLOGIST. LOGO
01166	7/31/01	10/2/01	E151409	DCF	LOGO			Since they finished the 2 construction sites at Chaparral Middle School, water is being directly diverted onto his front yard & ponding. Needs advice. LOGO: No action at this time.
01203	8/21/01	9/4/01	E151414	DIR	LOGO		7261 S COMSTOCK RD	Concerns about the drainage from the property above. LOGO: No significant problem.
01244	10/17/01	1/30/03	E151404	BLW	LOGO	BEAUDRY RV RESORT	3200 E IRVINGTON	Foot bridge over wash blocks maintenance equipment access. Wash is between Palo Verde & Country Club. Foot bridge is connecting RV Park with sales lot to north. 1/30/2003 - Logout, no action taken at this time.
01247	10/26/01	10/31/01	E151529	PGE	LOGO	TRAILS ASSOCIATES LLC	8401 N KOLB RD	A road is being elevated with fill & later will have a block wall alongside. Both features will likely cause ponding. Complainant P.E. in state of Texas. 11/7/01 - Non-regulatory
02030	2/14/02	3/26/03	E151425	PNR	LOGO			Ponding in the roadway, mobile home flooded, accessory building flooded. LOGO: No Action Taken (dr)
02055	4/3/02	7/31/03	E151404	MIS	LOGO	PALO VERDE VENTURES LLC	ATTN: BEAUDRY MOTOR COMPANY	Retention basin in the resort not retaining water. LOGO: No action taken
02401	10/11/02	10/28/02	E151404	TRS	LOGO			The wash is full of debris and trash. States the County has gone out there in the past to clean up. Operations has no record, but the Earp wash is out there. LOGO: 10/28/02 site visit-wash appears to have been recently cleaned, could not reach compla
03117	5/28/03	6/25/03	E151409	FGE	LOGO		5727 S PALO VERDE	Neighbor is moving dirt into the culvert, which will eventually cause flooding. LOGO: No action taken (dr)
03129	6/2/03	8/14/03	E151414	MIS	LOGO	PIMA COUNTY	.	Wash needs to be looked at, and cleaned. It is undermining his wall behind his property. He thinks there are homeless people living in it. LOGO: No big problems.
05101	5/19/05	5/18/05	E151415	RBM	LOGO	PIMA COUNTY	FLOOD CONTROL DISTRICT	Rodeo Detention Basin. Valencia and Alvernon Repair and install fencing. The fencing on the Eastside of basin needs to be chainlinked & elevated to 0.5' above grade with one strand of wire at 6. Outlet needs to have weeds cleaned out. LOGO: Service re

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05212	8/9/05	9/21/05	E151409	DRN	LOGO	SUNNYSIDE SCHOOL DISTRICT NO 12	.	Drainageway in front of Chapparral Middle School needs to be cleaned out. It is full of debris and has ponding water. School is concerned with mosquitoes breeding. LOGO: 9/21/05 - Channel is private need to contact the school.
05352	11/29/05	12/8/05	E151415	SRQ	LOGO	PIMA COUNTY	FLOOD CONTROL DISTRICT	Alvernon at Valencia. Sign Installation, all signs must be at top of basin within PC owned property. Contact Jason Green, has signs. SR to Ops # 110131. 12/16/06 - SR completed 12/8/05. Ops # 11904.
06022	1/31/06	7/16/07	E151404	MIS	LOGO			Homeless camp in the wash south of complainants property. There is lots of trash and debris left by them. Would like to have it looked at to be cleaned. 5/16/06 - Forwarded to infrastructure on 5/16/06. LOGO: Wash cleaned by Ops. In February. No fur
06028	2/9/06	7/16/07	E151404	DRN	LOGO	NA	NA	Has a concern with an arroyo that runs on the north side of her business. States that the weeds are very tall and is concerned with a potential fire hazard. She is having her employees clean along their property line. Can we get someone out there soon to
06067	4/10/06	5/1/06	E151425	NDF	LOGO			Neighbors at 5826, 5818, 5810 E. Klafter Rd., have diverted the flow making the road impassable when flooded. Ponding in roadway, driveway damaged. LOGO: No action taken as of 5/1/06, letter sent per HAG.
06208	7/20/06	11/6/06	E151409	PEA	ENFR	STAHLMAN JEREMY DENNIS & KERRI L JT/RS	3719 E ALVORD RD	Notice of opportunity to correct. LOGO: No correspondence ever sent, no action taken.
06226	7/20/06	7/24/06	E151409	PEA	ENFR	ALONSO LORENIA	3605 E MILTON RD	Notice of opportunity to correct.
06440	8/14/06	10/23/06	E151404	IDM	LOGO	PALO VERDE VENTURES LLC	3200 E IRVINTON RD	Beaudry RV has water running into the detention basin, it is over flowing at the entrance. The subdivision needs advise. 9/11/06 adding that the wash to the north of there home needs to be cleaned. Logo: No action, referred to Maintenance Operations.
06491	8/1/06	8/1/06	E151413	MIS	LOGO			Sink hole needs to be filled in. LOGO: Referred to Opertions, they went to tape it off with caution tape and will talk to the people who are doing new work out in that area.
06496	8/29/06	10/18/06	E151404	IDM	LOGO			Wash is full of vegetation directly in front of home. Needs to be cleaned. Update: Passed to MC on 9/15/06 by Marissa. LOGO: Referred to Maintenance Operations.
06584	10/6/06	11/15/06	E151414	PEA	ENFR	MORENO BROS PLASTERING INC	4971 E CORONA RD	Private drainageway has a lot of junk and debris in it that needs to be removed, so public channel can flow freely. LOGO: Notice of Opportunity to correct sent 11/16/06.
06587	10/10/06	12/26/06	E151529	PEA	ENFR		7340 E BENSON HY	Suspect has filled in retaining pond. Was this approved? Can they do this?, is this allowed? 11/6/06 - Given back to FPM on 11/6/06, no infrastructure. LOGO: Notice of Opportunity to Correct sent.
06622	10/31/06	2/10/07	E151404	IDM	LOGO			They would like the over grown vegetation cleaned out in the wash by Beaudry RV. Given to Paul 11/2/06. Logo: WO 0704201, completed, tsk 21, 2/15/07.
06668	11/18/07	12/28/06	E151425	PEA	ENFR	LINCOLN PACIFIC INC	6140 E HERMANS RD	Engineer (Jeff Stanley) will not certify the as-built, stated that the fill pad was constructed 25' closer to the wash than original design. Encroachment greater than 0.1 feet. NOC to be sent. LOGO: Notice of Opportunity to Correct. Combined with FPU
07164	5/30/07	5/30/07	E151529	IDM	LOGO	VOYAGER RV RESORT LIMITED PARTNERSHIP	8701 S KOLB RD	Mr. X states that approximately 500 feet North of 8701 S. Kolb Road (Voyager RV Resort) there is a 60 ft wide drainage wash which separates Voyager RV Resort from the Cove development. It runs through the whole development separating both unit
07335	8/1/07	8/17/07	E151409	PEA	LOGO			Complainant stated the drainageway on Palo Verde has a lot of trash and debris. Needs to be maintained. Very concerned of water going into there business. See attached blue drainage complaint form. UPDATE: 8/6/07 - No action by IMD, referred to FPM.
07375	8/7/07	1/8/10	E151409	MUD	LOGO			Complainant states 1) to the east of property there is an easement that has no drainage, 2) South of property there is a wash that needs to be maintained. Water did get into home. See attached blue drainage complaint form. Update: 8/13/07 - Thurman ca

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07442	8/21/07	11/14/07	E151415	IDM	LOGO	PIMA COUNTY	FLOOD CONTROL DISTRICT	Mrs. X represents the Valencia Reserve Community Assoc. Mrs. X states that a chain link fence surrounding the basin is missing or damaged in many areas. Please see letter attached for more details. LOGO: All work has been completed and verified
07470	8/31/07	10/19/07	E151409	MUD	LOGO	NA	NA	Mr. Brei (attorney) represents the owner of 6060 S Brosius. He states that some water runoff running down road and flooding into his warehouse loading dock. He was referred to me by Priscilla Cornelio. He would like someone to look into this issue. LOG
07487	9/6/07	4/16/08	E151409	BDF	LOGO	MATA ISIDRO & CLAUDIA JT/RS	3636 E MILTON RD	Complainant states there is a neighbor to the west of property who has built up there property, and now the runoff runs onto the complainants property. Would like to meet with Hydrologist. See attached blue drainage complaint form. LOGO: No action will
07507	9/24/07	10/17/07	E151404	IDM	LOGO	SMART VENTURES LLC	5151 S COUNTRY CLUB	Mrs. X states that there is overgrown weeds and vegetation in the wash by Beaudry RV that needs to be cleaned out. See Complaint 06-622. UPDATE: WR sent 10/9/07. LOGO: Work completed 10/17/07 by Ops. WO 0802277, tsk 25, completed.
07565	11/1/07	11/7/07	E151529	IDM	LOGO	TRAILS ASSOCIATES LLC	8401 S KOLB RD	Complainant states north of this suspects address there is a drainageway that needs to be maintained. See attached blue drainage complaint form. LOGO: Private drainageway, no further action by RFCD.
08120	4/4/08	4/24/08	E151529	FGE	LOGO	TRAILS ASSOCIATES LLC	8401 S KOLB RD	Draining issues, see info from DSD attached. LOGO: No action will occur, no ordinance violations found.
08148	4/16/08	4/15/08	E151414	PEA	ENFR	TITLE SECURITY AGENCY OF AZ TR 907	6545 S LANTANA VISTA DR	Suspect has not submitted the required Elevation Certificate.
08169	5/8/08	5/20/08	E151409	BDF	LOGO	WORLD MINISTRIES	3255 E BILBY	Mr. X states that suspect south of his property is blocking the drainageway between their properties. Suspect is building, not sure what, but is using dirt and debris to block off water. Mr. X is very concerned with this. In the past Mr. X
08194	6/5/08	6/5/08	E151404	IDM	LOGO			Mrs. X states that directly behind her MH rental there is a wash that needs maintenance. It is a fire hazard, she is very concerned and cannot sleep at night. Fires have been started in the area recently because of all the dry debris, needs to be c
08231	7/9/08	8/11/08	E151404	IDM	LOGO	NA	NA	Deputy Martin called stating that there is a Fire hazard with debris and brush that needs to be checked out soon. The location is east and west of Masterson at Earp Blvd. They have recently had seven fires since June 20th, 08. Update: 7/23/08 - WR sent
08292	7/25/08	8/11/08	E151529	FGE	LOGO	TRAILS ASSOCIATES LLC	190 E NEWPORT CENTER	Mrs. X states that the drainage between the homes are not draining properly. Landlord states that the individual owners or renters need to take care of their own properties. Needs advise on how to divert the water away. It is now making sink holes
08323	8/12/08	8/18/08	E151404	IDM	LOGO			Mr. X is the property manager for Coronado Home Owners' Association. He recently received a call from from Mr. X XXX-XXXX, a facilities representative from McDonalds located at 5225 S. Palo Verde, and states concern about the storm drains loc
08360	8/25/08	10/21/08	E151404	IDM	LOGO			Complainant states they would like the drainageway maintained. Update: WR sent to Ops. 8/29/08. LOGO: WO 0900519-32, completed 10/21/08.
08419	9/18/08	9/22/08	E151435	MIS	LOGO	GRANITE CONSTRUCTION COMPANY	9301 S SWAN RD	Suzie B. states an ACL letter was sent on 6/4/07 requesting engineering. This was to address the larger disturbance area. Was for FPUP 06-313. No response to letter. See attached blue drainage complaint form. LOGO: The additional disturbance was add
08470	10/28/08	11/4/08	E151407	IDM	LOGO	SUNNYSIDE SCHOOL DISTRICT NO 12		Complainant states wash needs to be maintained. See attached blue drainage complaint form. LOGO: No action taken, this section of Rodeo Wash is privately owned. Letter sent.
08483	11/5/08	1/27/09	E151404	IDM	LOGO			Mr. X states that just south of 5337 S Paloverde with the drainage structure. It is overgrown with vegetation. Needs to be inspected. Please respond back to C. Brichta at DOT Community Relations as well. Update: 12/8/08 - This drainage way is at
09016	1/21/09	2/6/09	E151409	PEA	LOGO	SMITH CHRIS M	5855 S BONNEY AVE SP #2	There is a travel trailer in sheet flood area without an FPUP. See attached blue drainage complaint form. LOGO: No enforcement per ES.

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09221	8/20/09	8/26/09	E151413	MIS	LOGO			Complainant stated intersection of Burcham Ave & E Dream as well as Burcham Ave & Rex St after the Julian Ranch Subdivision has been placed the roads listed now flood with each heavy rain. See attached blue drainage complaint form. 8/26/09 LOGO: No ac
09231	9/4/09	11/30/10	E151414	IDM	LOGO	PIMA COUNTY		Report of a homeless camp in the wash. LOGO: 11/30/10 Work completed 8/11/10.
09282	12/4/09	2/23/10	E151415	IDM	LOGO	PIMA COUNTY		Sgt Grider states that this basin needs to be inspected. They have been getting a lot of calls about motorcycle riding, ATV use, concerns when it rains and kids playing in the basin. New construction going on South of there and future East of basin. Fe
10050	2/18/10	3/4/10	E151415	IDM	LOGO			Complainant states to the west of property he would like the walk way near the wash to be cleaned out. In the wash there is alot of mud that also needs to be maintained. There is a lot of overgrowth. LOGO: The District found this walk way owned by Valen
10100	4/13/10	5/11/10	E151404	IDM	LOGO			Vegetation along Irvington Rd needs to be inspected for maintenance. Update: 4/16/10 - Work to be completed within 2 months. LOGO: The district found public drainage infrastructure requiring maintenance. This area has been placed on our vegetation maint
10202	7/12/10	8/12/10	E151414	IDM	LOGO			Complainant states to the north of 5190 E Fairy Duster Drive there is a wash that needs to be maintained. There are homeless camps that need to be removed. Please call Becky before mainteniance will be done so she can call sheriff to remove homeless peo
10315	8/12/10	8/12/10	E151409	PEA	ENFR	ALONSO LORENIA	3605 E MILTON RD	Need El Cert for FPUP 07-130.
10351	8/26/10	10/1/10	E151404	IDM	LOGO			Complainant is requesting that the county maintain the drainageway that goes from Country Club to Palo Verde to be cleaned out. Please contact Mr. X to advise of schedule. See attached blue drainage complaint form. Mailing address is PO BOX 26905, T
10385	9/22/10	10/19/10	E151404	IDM	LOGO			Complainant states the wash between Palo Verde and Franfort Sv needs to be maintained. Culverts are filled with dirt so water is not flowing properly. LOGO: IMD found public drainage infrastructure requiring maintenance. Work completed 9/30/10.
10386	9/22/10	9/24/10	E151422	PEA	ENFR	ERLER ROBERT J & DEBRA L CP/RS	7600 S SWAN RD	There is a Riparian grading violation. See attached blue drainage complaint form. 9/24/10 NOC letter sent. Combined with FPUP 11-099 and Vio 10-386.
11078	4/8/11	4/14/11	E151425	MIS	LOGO	STATE OF ARIZONA		Complainant reported riparian vegetation disturbance due to ATVers cutting trails throughout her parcel. See attached blue drainage complaint form. 4/14/2011 - No ordinance violations found.
11161	7/7/11	7/29/11	E151409	BDF	LOGO	KOCIS JOHN R & ESTRILLITA CATHERINE CP/RS	3600 E MILTON RD	Complainat states there is someone filling in the wash diverting flow. He feels it is someone from the mobile home near by. See attached blue drainage complaint form. LOGO: No action will occur, no ordinance violations found per MCO.
11218	8/30/11	9/6/11	E151404	IDM	LOGO			Mr X states that the drainageway to the north of address above needs to be maintained. He said that in the past someone from Pima County has gone out there and cleaned it up. Not sure if it is COT, needs to be researched for ownership. 9/6/11 - Com
11243	9/22/11	9/29/11	E151409	IDM	LOGO	PIMA COUNTY		Complainant states someone has placed a fence in the drainageway, which is causing trash and debris to gather. Needs to be maintained. Please let Debbie or Deanna know if point needs to be moved. LOGO: 9/29/11 - referred to DOT for their review and res
11266	10/12/11	11/7/11	E151414	IDM	LOGO			Mr. X states the wash to the southside of TTT needs to be maintained. Please let Debbie or Deanna know if point needs to be moved. LOGO: 11/9/11 - RFCD found public drainage infrastructure requiring maintenance, work completed.
11323	12/2/11	9/6/13	E151529	IDM	LOGO			Wash needs to be maintained there is alot of overgrowth. LOGO: 9/6/13 - I have researched this old drainage complaint and I did not find any of RFCD infrastructure in the vicinity of this address no action taken by RFCD.
12030	1/13/12	1/30/12	E151425	PEA	ENFR	HOUSING & URBAN DEVELOPMENT SECRETARY OF	5546 E HERMANS RD #2	El Cert was not returned and is required for a manufactured home set up per FPUP 09-367E. 1/30/12 NOC letter sent. Viol 12-030

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12035	1/13/12	1/19/12	E151409	PEA	ENFR	BARGHOUT HANI E	5809 S EMERSON PL	El Cert for manufactured home replacement was not returned and is required for FPUP 09-462E. 1/19/12 NOC letter sent. Viol 12-035
12054	1/25/12	2/8/12	E151409	PEA	ENFR	BALBASTRO NUBIA PATRICIA	3243 E MILTON RD	El Cert is required for FPUP 10-364E for manufactured home replacement. 2/8/12 NOC letter sent. Viol 12-054
12417	8/22/12	8/27/12	E151409	MUD	LOGO			"WATER IN HOME" Complainant states a new subdivision has redirected the natural flow. Causing flooding on the property. Needs someone to investigate. LOGO: No letter sent, see attached e-mail.
12421	8/24/12	9/25/12	E151414	IDM	LOGO			Complainant states wash to the south of property needs to be maintained. Please let Debbie or Deanna know if the point needs to be moved. LOGO: The District has found public drainage infrastructure requiring maintenance. This drainage way has been placed
12478	9/19/12	9/27/12	E151404	IDM	LOGO	PIMA COUNTY		Complainant states drainageway needs to be maintained. Let Debbie or Deanna know if point needs to be moved. LOGO: The District has found public drainage infrastructure requiring maintenance. The section of drainage way in question from Country Club Road
13193	7/19/13	7/23/13	E151436	MIS	LOGO	UNITED STATES OF AMERICA		Mr. X is wanting to know if a rain gauge can be placed out in these areas by the prison. See attached blue drainage complaint form. LOGO: No letter sent, attempted to contact caller but no voice mail. If he calls back please have him contact Andy
13281	9/11/13	9/26/13	E151409	IDM	LOGO	PIMA COUNTY		Drainageway needs to be maintained. Let Debbie or Deanna know if point needs to be moved. LOGO: 9/26/13 - The District has found public drainage infrastructure requiring Vegetation maintenance. Maintenance is expected to be completed within two months.
13286	9/12/13	9/30/13	E151404	FGE	LOGO	PISCIOTTA MICHAEL & DEANNA	3362 E BEHAN ST	Complainant states he has concerns about ongoing flooding in front of his property. See attached e-mail. LOGO: No action will occur by RFCD, will refer to DOT for their review. 10/2/13 Request #14002564 has been created by DOT for this concern.
13325	10/17/13	10/24/13	E151409	MIS	LOGO			There is ponding without any drainage causing mosquitos, also man holes have been covered with the recent paving that was done. See attached blue drainage complaint forms. LOGO: No actions will occur, no ordinance violations found.
14125	5/7/14	5/15/14	E151425	PEA	ENFR	SOTO NICANOR MARTIN & BLANCA SILVIA CP/RS	5820 E KLAFTER RD	There is a block wall without a permit. Also, relocated a manufactured home and added a carport without a permit, post floodplain mapping (10/06). 5/15/14 NOC letter sent.
14126	5/7/14	5/15/14	E151425	PEA	ENFR	MONTOYA ERIKA ELIZETH	5846 E KLAFTER RD	Block wall without a permit. 5/15/14 NOC letter sent.
14226	7/16/14	7/22/14	E151414	IDM	LOGO	PIMA COUNTY		The basin at the bridge under Fairy Duster Dr needs to be inspected for maintenance. Runoff water is not draining properly. Please let Deanna or Debbie know if the point needs to be moved. Thanks! LOGO: District staff treated the standing water in the
14356	9/9/14	9/22/14	E151409	BDF	LOGO	MATA ISIDRO & CLAUDIA JT/RS	3636 E MILTON RD	Suspect has a ditch that use to run, it no longer runs because it is full of debris and trash. Creating problems for other properties. Wants to meet with hydrologist. LOGO: No action will occur, no ordinance violations found.
14374	9/12/14	9/30/14	E151430	BDF	LOGO	ARAGON TONY T & NORMA CP/RS	8640 S NOGALES HY	9/12/14 - Neighbor has built a fence that is redirecting the natural water flow. Would like to meet with Hydrologist. 9/25/14 - Now suspect has installed metal doors on the fence that will block the natural flow. LOGO: No action will occur, no ordinan
14504	12/12/14		E151407	IDM	RECD	PIMA COUNTY	6243 S SOUTHLAND BL	Paul working with Tony Smith from COT Enforcement. County owned propertys needs to have wildcat dumping removed. Thanks!
89013	1/17/89		E151530	PND	LOGO			PONDING CAUSED BY DRAINAGE IS DANGER TO TRAFFIC.
89096	6/5/89	10/30/89	E151404	CUL	LOGO			Box culvert not draining to West. Backs into adjacent property. Memo to operations.
90090	7/9/90	7/11/90	E151409	FGE	LOGO			Wash behind property in back flowed onto his property. Still one foot of w ater remaining that has not receded. See Memo to Drainage Complaint file Section 9, T15S, R14E from Terry Hendricks dated July 10, 1990.

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90276	8/3/90	10/10/90	E151414	DCF	LOGO			Subdivision across street by Pulte Homes is carrying road drainage. Flooded his son's bedroom and garage and is eroding yard. County was out 2 year s ago - built a small channel by driveway - doesn't work. Water by-passed it. Can we do something?
91188	8/28/91	11/7/91	E151409	BDF	LOGO	NA	NA	Potentially dangerous situation in the area of 3894 E Earp Blvd. The residents have bermed or raised their respective properties. In the past, this problem has trapped water flow on the roadway and shoulders.
91213	9/30/91	11/1/91	E151404	CUL	LOGO			Spillways at box undermined and washed out. BS # 8890. Julian Drive crossing at the Julian Wash. S.W. Quad. of Palo Verde & Irvington Road. Is it Public or Private? Memo dated 10/24/91 from Terry Hendricks to Marty Lujan requesting a response/ correspond
91214	10/15/91		E151425	MIS	LOGO			Neighbor at 8108 & 8290 S. Wilmot Road has debris and trash on both lots (s ame owner). Mr. X believes this is diverting flow - possible violatio n. Roseanne also reported this to Zoning. Please advise Roseanne of our f indings 6410.
92024	2/13/92	5/28/92	E151404	MUD	LOGO	GREGORY OWLINE TR OF OWLINE GREGORY TR	3329 E BENSON HY	Water in back room and entryway in back. flooding from South to North, Leasing restaurant - feels grading by owner caused problem. Site visit by Mike Shore 2/27/92. It appeared that the rear door is low and use some modification , a stairway might work. B
92129	6/22/92	8/20/92	E151425	VIO	LOGO			Ray Arvizu (neighbor) has blocked the natural water flow . 3 - 4 times a year flow floods the property up to a depth . In 1984 this department was called - we advsed the property was too small to take action on ? Mr. Marble requests an i Terry Hendricks
92189	8/7/92	8/19/92	E151324	MIS	LOGO			Water under Mobile Home, water from all over subdivision drains under home . Was afraid car would wash away. Left phone message on 8/13/92 that they are located on the Indian Reservati on, and therefore out of our juristdiction
92190	8/7/92	8/19/92	E151324	PND	LOGO			Water under mobile home, ponded, plus shed. Water came through driveway 10 inches deep. Space 76 was also affected. Notified Mrs. X on 8/17/92 that she lives on Indian Reservation an d was therefore out of our juristdiction.
93121	3/3/93	3/30/93	E151404	MIS	LOGO			Mr. X works for McAllister Co. at XXX-XXXX. You must leave a message and he will call you or you can reach him by his digital pager XXX-XXXX. There is a bridge by the Motel 6 on Julian Loop and it has many sink holes by it.
93125	3/5/93	3/30/93	E151404	IMD	LOGO			The bridge over the Julain wash has damage. Investigated this complaint on 03/18/93. Bridge is private. Advice was given. See attached report.
93198	5/21/93	11/11/93	E151434	BBF	LOGO			A berm has been erected & mining is occuring in a regulatory wash. (See Attached) Logout: None - The berm has been removed. See the Calmat Violation file.
93216	6/14/93	1/5/94	E151417	MIS	LOGO			See attached letter from X. Logout: Referred Tucson Airport Authority to deal w/Clint Glass on Calmat's project. See Calmat Violation file.
93373	9/2/93	11/8/93	E151529	BDF	LOGO	TRAILS END	7220 E BENSON HY	Trails End put up a brick wall around the park since then Pima Ramada MHP S/E corner (Mr X) gets flooding. She feels that the wall is blocking washes causing the flooding, around two feet deep. Logout: Memo to Operations & spoke.
93427	10/27/93	5/11/94	E151409	BBF	LOGO	BROWN VERNA	3663 E ALVORD	Property owner has blocked flow. Logo: J. Wallace & I investigated complaint 5/6/94. The alteration of flow will not change the floodplain nor will it adversely impace the road. No action of ditch to the west requesting the ditch berm intended.
94185	8/2/94	8/4/94	E151324	BBF	LOGO			S/6th turns into San Xavier Rd. S/W on San Xavier Rd, the ditch along berm water runs over San Xavier Rd. There is a slope drainage ditch causing problems Logo: This complaint was referred to Ted Ramirez of Operations 8/4/94. (RTH)
94213	8/17/94	9/29/94	E151425	FIL	LOGO	SPICER DALE & LOIS JEAN	8801 S. CRAYCROFT RD. TUCSON AZ	Fill & levee in regulatory floodplain Logo: non - not a problem.

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94220	8/19/94	9/14/94	E151404	TRS	LOGO			At north end of street there is a ditch filled with debris, that needs to be cleaned out. Logo: Sent maintenance request to Operation to remove debris.
94340	12/27/94	1/4/95	E151404	BLW	LOGO	PINNELL ROBERT L & PATTY A CP/RS	5621 S COUNTRY CLUB	Neighbor to the north is blocking a natural wash with cement blocks & railroad tracks. He has also graded the wash, water is diverting onto Mr. McCoy's property under his shed, he is afraid if another bad rain he might loose his some of his property. Lo
95030	1/26/95	7/19/95	E151409	RDR	LOGO			When rds. were graded they did not grade his side of the road, wants to know if dirt can be dumped & then road graded. There is a big whole N/of the property that needs to be filled. Logo: No action either regrading already done or not bad; problems rel
95050	2/7/95	9/27/95	E151404	WBF	LOGO			On the N/E side of Buffalo mobile home park, someone is putting up a wall in the drainage wash. They are slowly filling up the wash with concrete. Can this be done? LOGO: See E-Mail dtd: 3/28/95 complaint filed with FPUP 95-055 OLVERA, Raymundo.
95187	8/14/95	9/6/95	E151404	RDR	LOGO			When landscaping was done to White school it changed the flow of water. Lopez got water in there garage Friday. LOGO: Vegetation has been removed.
95264	8/28/95	9/1/95	E151404	TRS	LOGO			E/of VF outlet on Julian Dr. between Irvington & Palo Verde, the wash is filled with weeds & debris needs to be cleaned out. LOGO: Service request to Operations 9/1/95.
95277	9/1/95	9/14/95	E151409	WTS	LOGO			In front of their buildings there is a ditch that needs to be cleaned out. Runoff going back onto gravel parking lot. LOGO: Letter to complainant w/ information.
95356	10/12/95	1/9/97	E151404	MIS	LOGO	PINNELL, ROBERT	5621 S. COUNTRY CLUB	Suspect built road tie around his property diverting the flow onto Mr. X property. Need advice. Lisa Smith, attorney for Mr. X would also like to be contacted #XXX-XXXX. LOGO: Already to court, thrown out(found in Pinnell's favor) no further
96169	7/8/96	7/9/96	E151409	CUL	LOGO			Culvert clogged along Palo Verde near Mossman. Water is backed up to the house. LOGO: Per Joe Soto(Operations) culverts were not clogged, the water was too much for the culverts. Joe recommended that a study be done in that area to put in storm drains
96253	8/14/96	8/14/96	E151416	CUL	LOGO			Portion of automobile in inlet of Rodeo wash channel blocking 1/2 of 1 of 2 66 rcps. Needs immediate attention. Just upstream (east) of Palo Verde in City of Tucson, but is Pima County easement- dkt 7088 pg. 1266. LOGO: I called Oscar Felix of Pima
96331	9/4/96	10/24/96	E151404	ERG	LOGO	PALO VERDE PROPERTY		Drainageway along Ramada Inn. LOGO: Repair drainageway on south side of Julian Wash. Bank us collapsing at outlet from Ramada Inn. Sent service request to Operations 10/24/96 #101167.
96449	9/26/96	2/6/97	E151413	MIS	LOGO			Had 3' of water under trailer, runoff from rd pours into his property. Wants to know if someone can put gravel to help him. It is very muddy. LOGO: Letter sent explaining water problems caused by ponding.
96502	10/16/96	12/17/96	E151302	MIS	LOGO			Two detention basins are filling with water & are breeding mosquitoses, causing a fetid odor. LOGO: Engineering in progress, basins repaired-should function.
96529	11/4/96	12/30/96	E151529	TRS	LOGO			Weeds gowing in Retention Basin. Can she make landlord clean it out. Needs advice LOGO: Private, called complainant & owner to voice their concers, and that the situation is a civil matter.
97236	8/4/97	8/19/97	E151409	MIS	LOGO			At the end of Holly Dr. there is a drain that is clogged. It is overflowing & diverting under the mobile homes creating a mess. LOGO: Joe Soto of Operations will clear out vegetation within two weeks.
97309	8/25/97	8/26/97	E151414	DIR	LOGO	PIMA COUNTY	201 N. STONE, 4TH FL	Complainant believes recent grading of the drainageway(EARP BLVD) northeast of his mobile home court may endanger one of his mobile sites. LOGO: Sent service request to Operations #103109.
97547	12/16/97	4/7/98	E151409	DCF	LOGO			Proposed housing development between Chapparral School and Alvernon may increase flooding to his property - doesn't know name of deveopment. There is a history here - see Terry. LOGO: Annexed into the COT.
98107	3/19/98	5/15/98	E151404	BOS	LOGO			Ponding in the road at Dover & Olympia. Please respond back to X. LOGO: No action.

Number	DATE_IN	Date Out	TRS	Code	Status	SUSPECT	SUSPECT_AD	Notes
98134	4/9/98	5/5/98	E151529	MIS	LOGO	THUNHORST RON (TRAILS WEST MH PARK)		Several lots in park have severe ground saturation problems with some standing water also Park Manager & owners will not help. Please investigate & give some guidance or direction for help. LOGO: Non-regulatory, no action.
98141	4/21/98	7/2/99	E151409	DCF	LOGO			Development upstream is causing increased flow on his property. Development downstream has encroached in drainage near Palo Verde Rd. Historical problem. LOGO: Drainage channel to cast outflow on complainants property.
98256	7/8/98	7/12/99	E151409	PND	LOGO	NA	NA	At the southwest corner of Alvernon and Drexel, curb is too high and does not let water drain down. Water is ponding in the middle of the road. LOGO: No action.
98351	7/31/98	2/3/99	E151404	PGE	LOGO	NA	NA	Ponding and sediment accumulation along Country Club and Drexel. LOGO: No action
98385	8/12/98	1/10/01	E151432	RWO	LOGO			Roads are impassable and water is diverting onto her property and neighbors. Are these County maintained roads and can anything be done? LOGO: No action taken
98406	8/20/98	11/6/98	E151519	DCF	LOGO			Development has caused more runoff & channels do not carry flow. LOGO: sent service request to Operations # 105619.
98439	9/10/98	3/30/98	E151413	RDR	LOGO			Road to be paved any day, and is to be reconstructed such that it diverts the water on to complainants property, house is lower than the street and almost flooded on Saturday - contractor - Hunter Construction - Rick Cornellius # XXX-XXXX (complainta
98440	9/11/98	11/20/98	E151409	FEN	LOGO			Fence in wash causes water to back up 2 to 3 feet deep on road. Wash is maintained by both City & County, fence is private. Wash appears to be a drainage easement along / in(?) the road. LOGO: Fence has been cut.
98464	9/23/98	7/12/99	E151409	PGE	LOGO			Approximately 2' of ponding during 1 rains drainage outlet is blocked by MH sales. Historic drainage problem, flow has increased. LOGO: refer to C.I.P. for project.
99005	1/9/99	12/3/99	E151425	FIL	LOGO		8570 S. WILMOT	Filled in wash to above grade w/cement, dirt, asphalt. Culverts at crossing. LOGO: No action.
99055	3/4/99	7/6/99	E151302	PND	LOGO			This is located at Valencia & Cmo. De Oeste. There is no drainage in the area, wants to know what can be done to put it in. LOGO: Sent service request to Operations # 106146.
99076	3/23/99	7/1/99	E151413	GRD	LOGO	CONSTRUCTION CO.		Someone has re-graded & stock piled dirt south of Elvira, east of Craycroft. Dan is concerned that this will cause diversion of flows & flood his lots. Check for development plan. LOGO: Berms removed, letter stating fill does not increase floodplain b
99089	4/2/99	4/2/00	E151409	WBF	LOGO			Business to the north constructed a brick wall with no drainage. Waters come from suspects property & ponds on Dietrich's property. Wants to meet with hydrologist. No action taken.
99146	7/2/99	7/22/99	E151409	WFE	LOGO			Wash is in the City, but is maintained by the County. Just north of Atlas Pl., s/e Rodeo Wash needs to be cleaned out. Is it County responsibility? LOGO: Service request sent to Operations # 106148.
99259	7/23/99	8/16/99	E151413	MUD	LOGO			Water went inside home. On the eastside of her property there is a wash that does not carry the flow. LOGO: Advise and manual of American Red Cross given.
99266	7/26/99	10/4/99	E151409	DCF	LOGO			Because of the new development going up, water is being diverted. His front yard has been inundated with almost a foot of water, he is losing his fence. LOGO: Letter sent to Chaparral School.
99269	7/26/99	8/16/99	E151409	MUD	LOGO			Water went inside his building. It has happened before, but not as bad. As long as they keep building to the south, it will continue to happen. LOGO: Letter will be sent to residents regarding Earp Wash.
99272	7/27/99	8/16/99	E151404	MUD	LOGO			Water went inside building, eroding the parking lot. LOGO: Terry preparing a letter for all property owners within the Ear Wash.
99386	9/10/99	10/4/99	E151413	WBF	LOGO			Weeds in the wash blocking flow. LOGO: Sent service request to Operations # 106779.