

**ADOBE
DAM/DESERT
HILLS**

AREA DRAINAGE MASTER PLAN

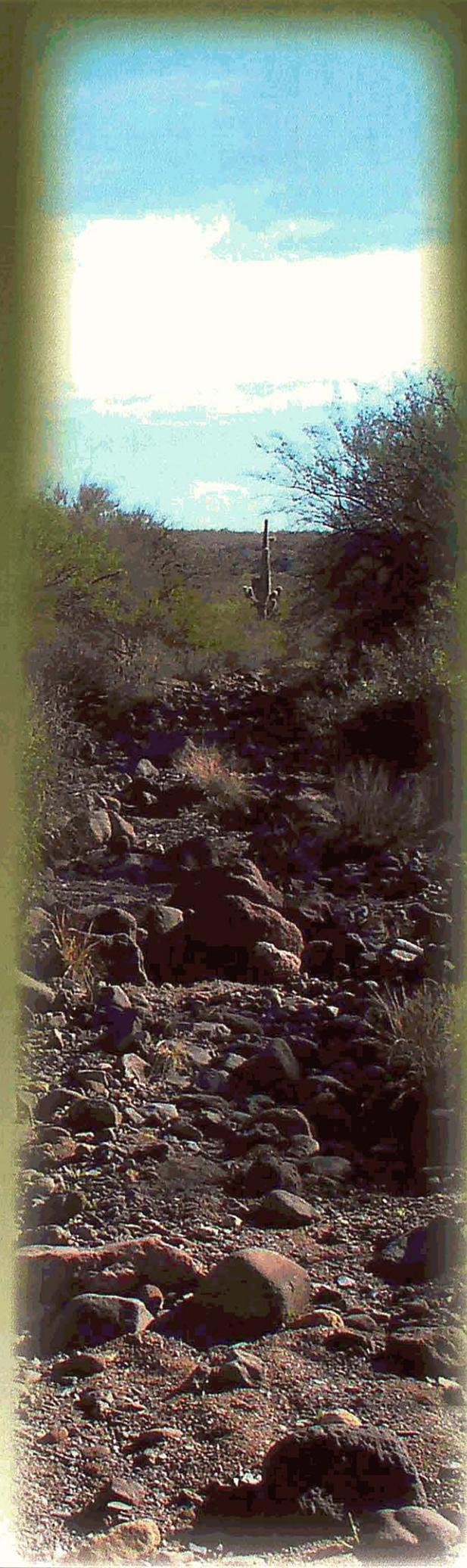
Part 4

**Approximate Zone A Floodplain
Delineation Study of Biscuit Flat Area
Technical Data Notebook**

Volume 6



February 2004



Flood Control District of Maricopa County, Arizona
APPROXIMATE ZONE A FLOODPLAIN DELINEATION STUDY
OF
BISCUIT FLAT AREA
(Upper Buchanan Wash, CAP Wash-West, CAP Wash-East)
ADOBE DAM / DESERT HILLS AREA DRAINAGE MASTER PLAN
FCD 2002C001

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Phoenix, AZ 85009

TECHNICAL DATA NOTEBOOK
VOLUME 6 (Exhibits)



Submitted by:

JE Fuller / Hydrology and Geomorphology, Inc.
6101 S. Rural Road, Suite 110
Tempe, Arizona 85283
(480) 752-2124

on behalf of:

Flood Control District of Maricopa County
2801 West Durango Street
Phoenix, AZ 85009
(602) 506-1501

February, 2004

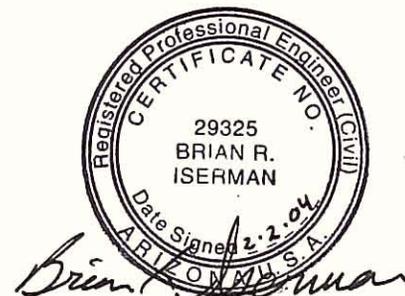


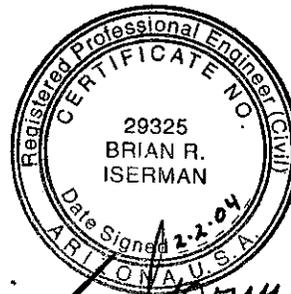
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EXHIBITS A, B, C
VOLUME 6 OF THE TDN

EXHIBITS

Exhibit A: Hydrology Study Work Map

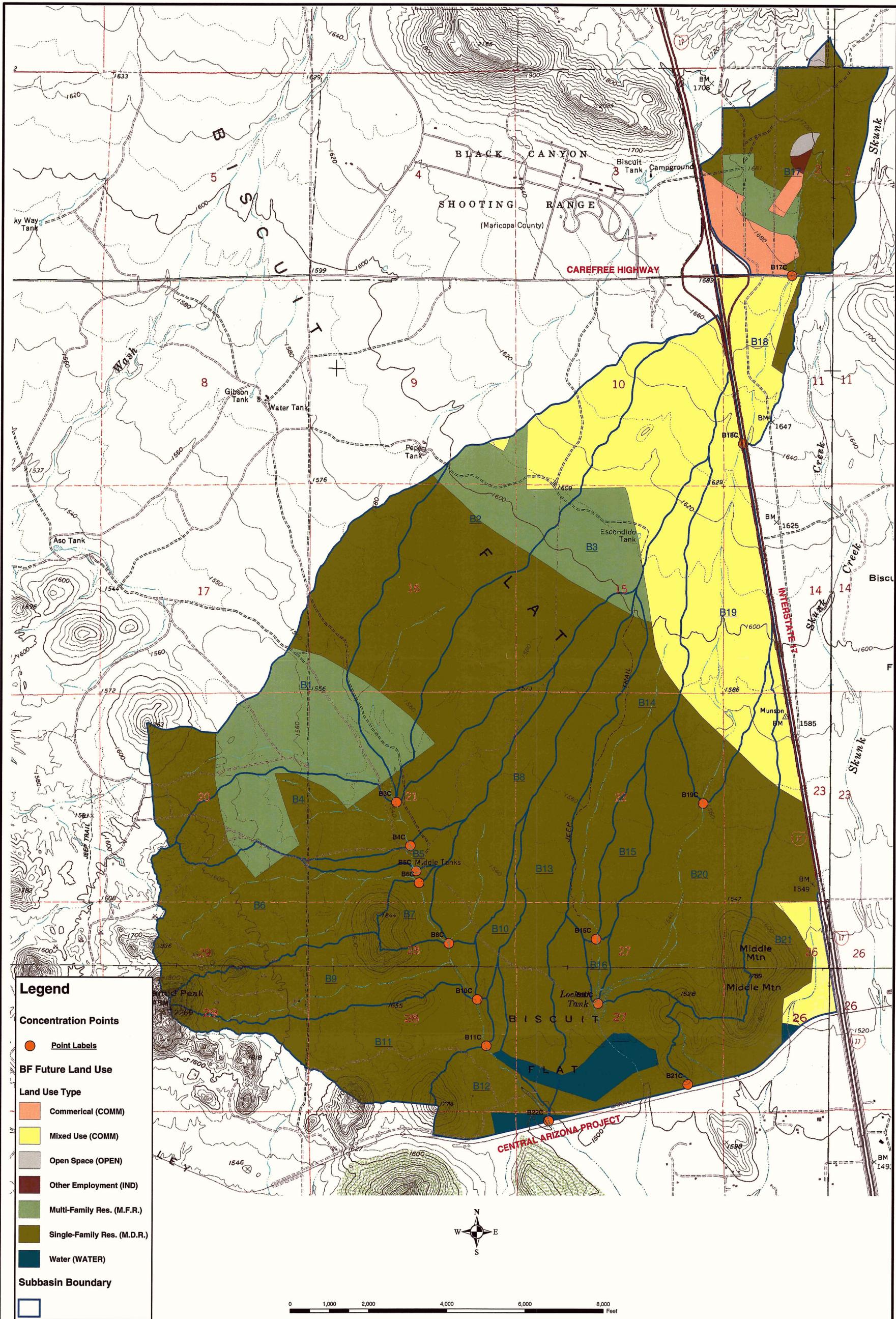
Exhibit B: Zone A Work Study Maps

Exhibit C: Annotated Flood Insurance Rate Maps



Brian R. Iserman

EXHIBIT A
HYDROLOGY STUDY WORK MAP



Legend

Concentration Points

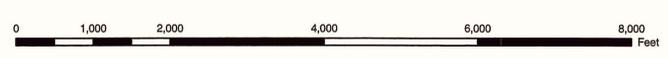
- Point Labels

BF Future Land Use

Land Use Type

- Commerical (COMM)
- Mixed Use (COMM)
- Open Space (OPEN)
- Other Employment (IND)
- Multi-Family Res. (M.F.R.)
- Single-Family Res. (M.D.R.)
- Water (WATER)

Subbasin Boundary



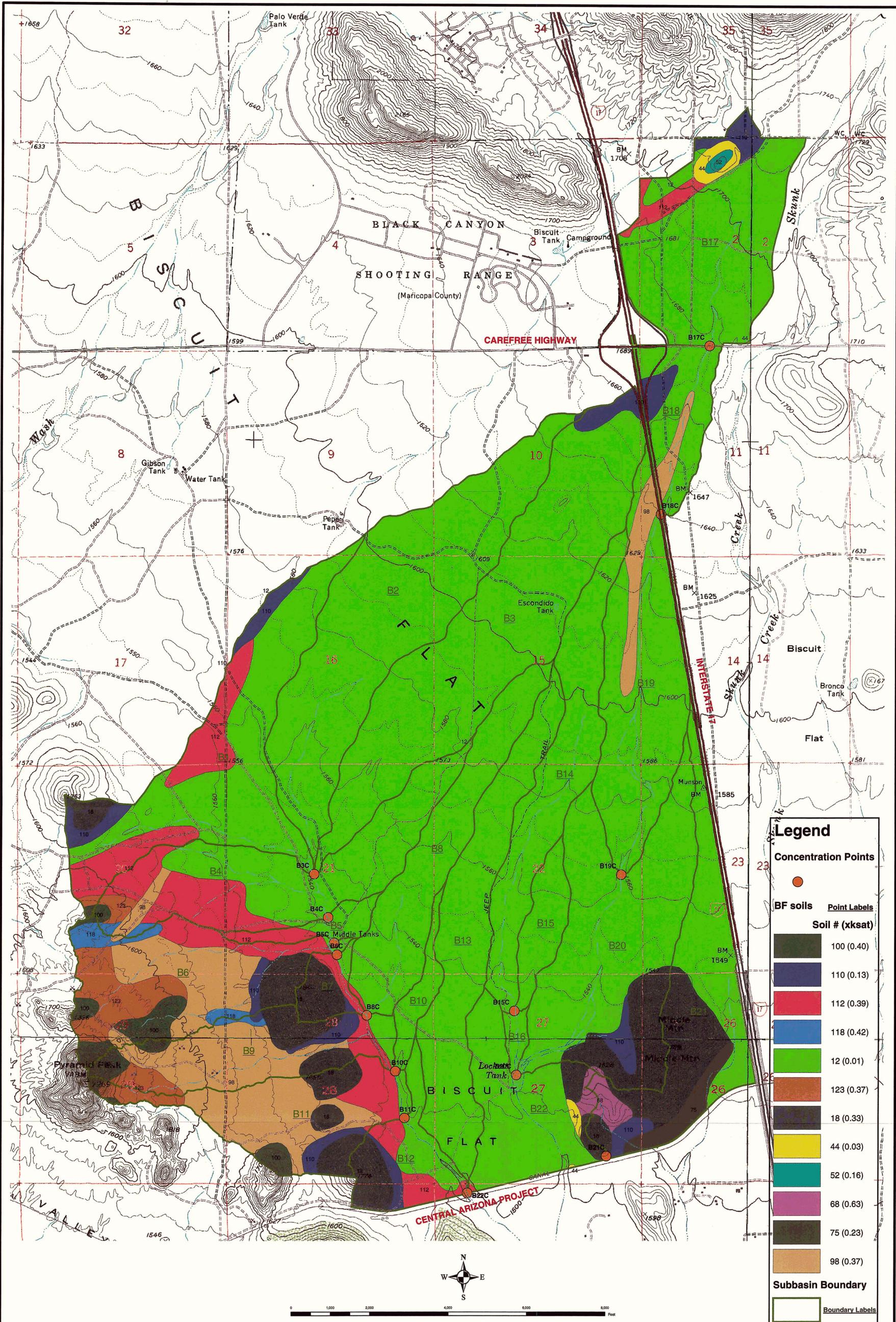
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DESIGNED BY	JAD					
DRAWN BY	NAH					
CHECKED BY	JAD					
APPROVED BY	JAD					
DATE	9-28-08					

ADOBE DAM/DESERT HILLS AREA DRAINAGE MASTER PLAN - FCD 2002C001
 EXHIBIT D
 BUCHANAN WASH

JE FULLER
 HYDROLOGIST & GEOMORPHOLOGIST, INC.

2001 S. Silver Star Rd.
 Phoenix, Arizona 85024
 Phone (602) 952-2124
 Fax (602) 952-2126
 www.jefuller.com

2001 S. Silver Star Rd.
 Phoenix, Arizona 85024
 Phone (602) 952-2124
 Fax (602) 952-2126

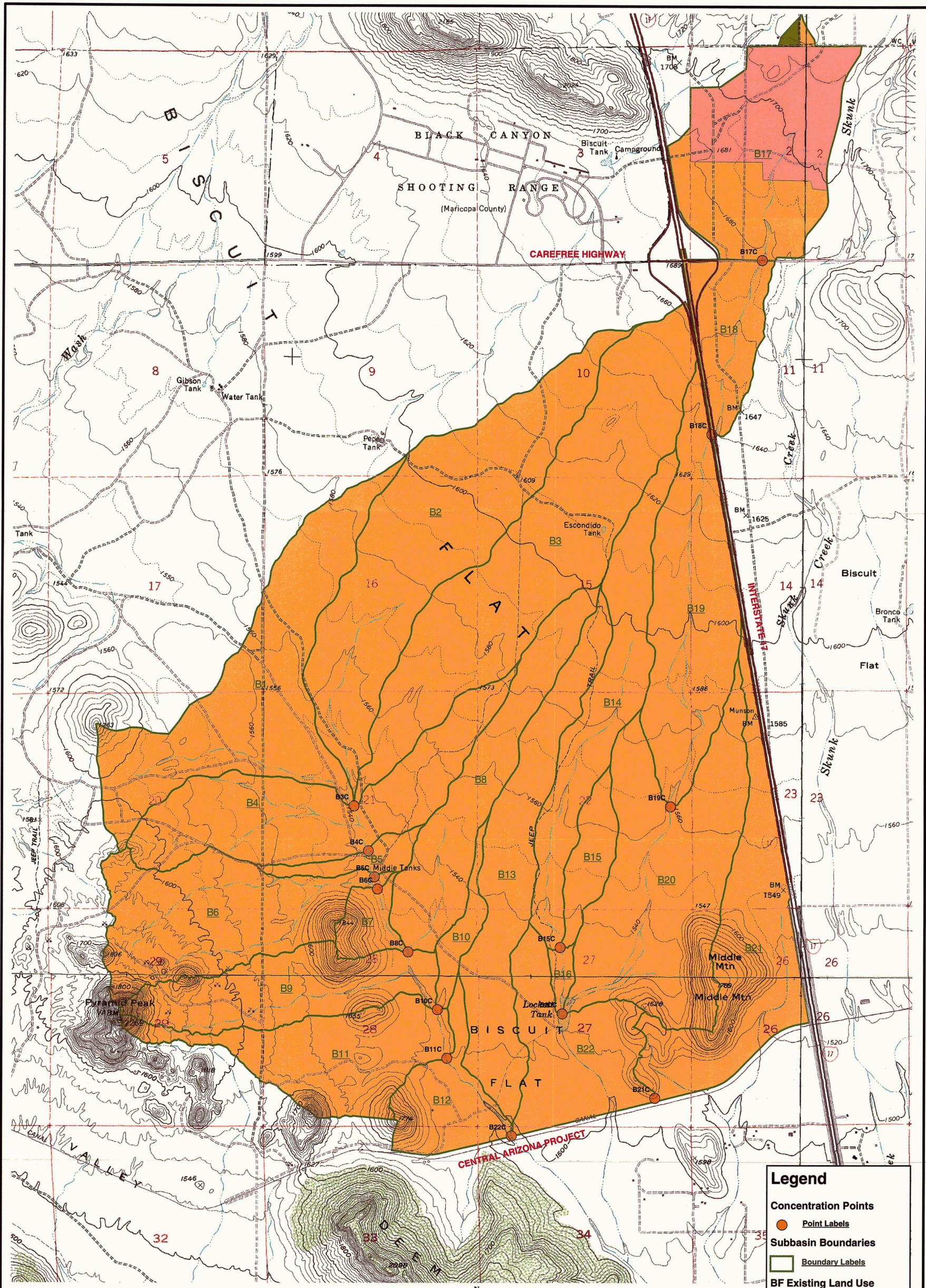


NO.	DATE	BY	CHKD
DESIGNED BY	JAD		
DRAWN BY	NAH		
CHECKED BY	JAD		
APPROVED BY			
DATE	9-24-03		

ADOBE DAM/DESERT HILLS AREA DRAINAGE MASTER PLAN - FCD 2002C001
 EXHIBIT B
 BUCHANAN WASH

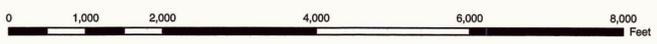
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 HYDROLOGIC & GEOMORPHOLOGICAL INC.

2881 N. Silver Star Rd., Ste. 100
 Phoenix, Arizona 85028
 Phone (602) 952-2100
 Fax (602) 952-2100
 www.jefuller.com



Legend

- Concentration Points**
 - Point Labels
- Subbasin Boundaries**
 - Boundary Labels
- BF Existing Land Use**
- Land Use Type**
 - Large Lot Residential
 - Medium Density Residential
 - Vacant



JOB NO.	DATE	REVISIONS	NO.	DATE	BY	CHKD
04-2002						
DESIGNED BY	JAD					
DRAWN BY	NAH					
CHECKED BY	JAD					
APPROVED BY	JAD					
DATE	9/25/03					

ADOBE DAM/DESERT HILLS AREA DRAINAGE MASTER PLAN - FCD 2002C001
 EXHIBIT C
 BUCHANAN WASH

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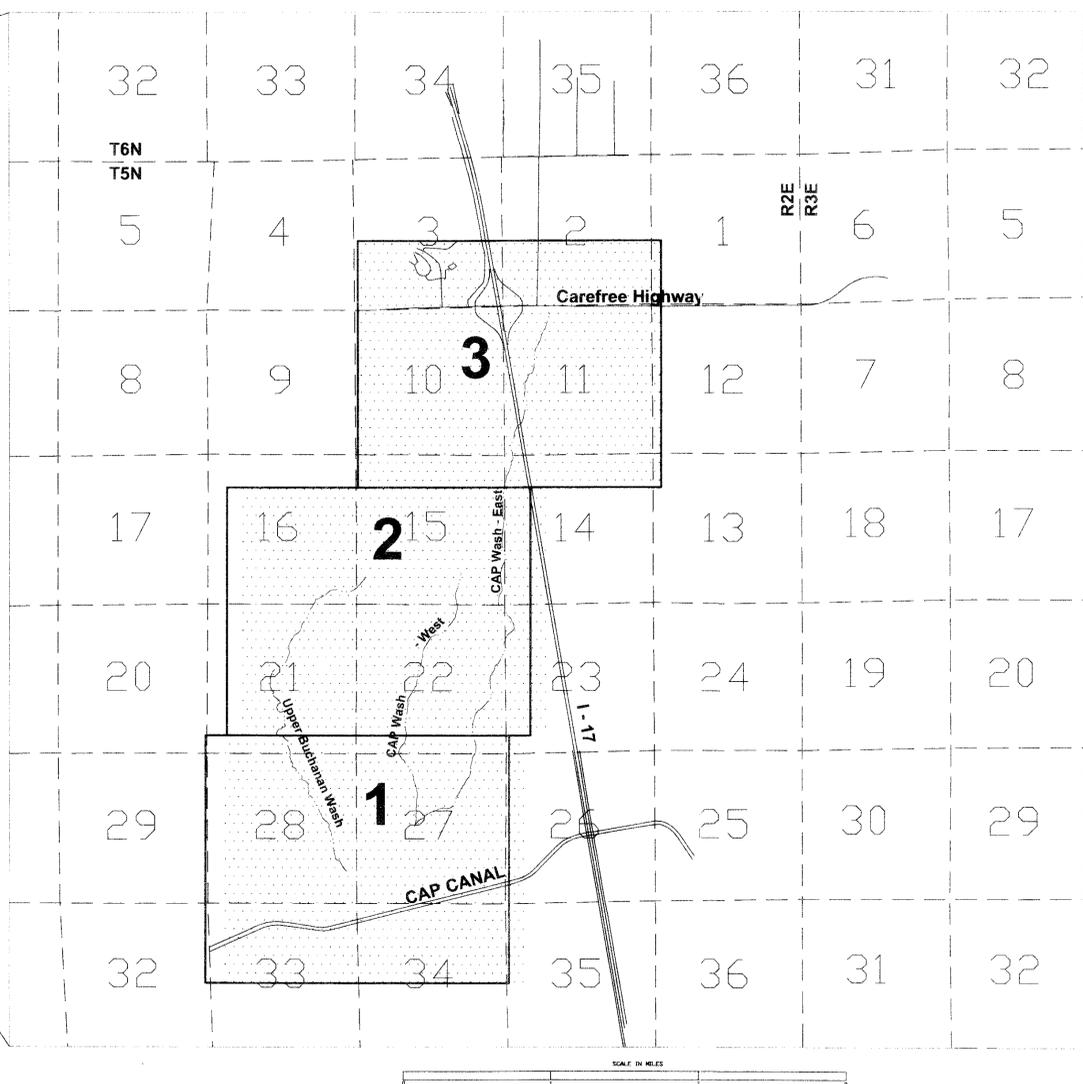
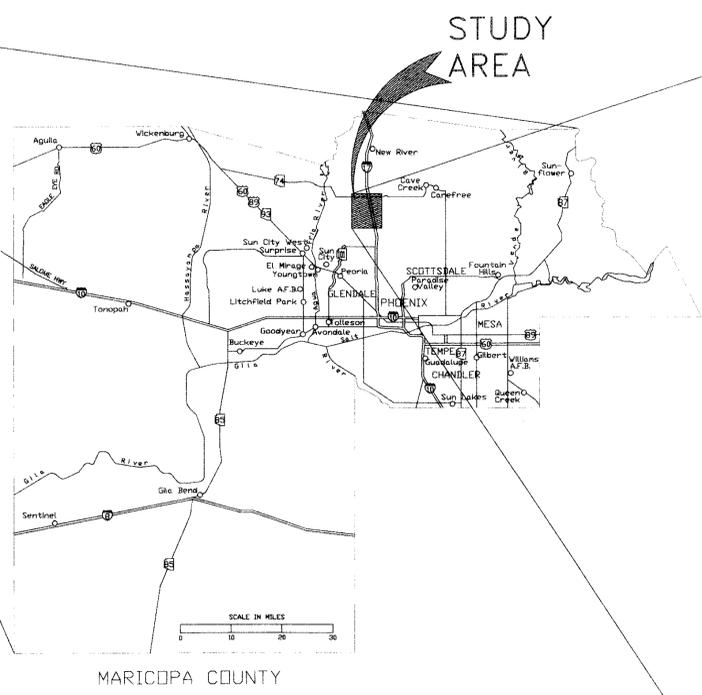
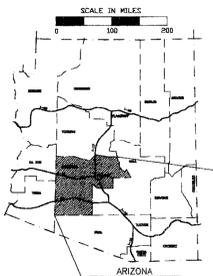
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 Phoenix, Arizona 85004
 Phone: (602) 762-2222
 Fax: (602) 762-2222
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2011 S. Grand Ave., Suite 100
 Phoenix, Arizona 85004
 Phone: (602) 762-2222
 Fax: (602) 762-2222

EXHIBIT B
HYDRAULICS STUDY WORK MAPS

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

APPROXIMATE ZONE A FLOODPLAIN DELINEATION STUDY OF THE
BISCUIT FLAT AREA (UPPER BUCHANAN WASH, CAP WASH-WEST, CAP WASH-EAST)
ADOBE DAM/ DESERT HILLS AREA DRAINAGE MASTER PLAN, FCD 2002C001



NOTES

1. HORIZONTAL PROJECTION IS ARIZONA STATE PLANE, CENTRAL ZONE, NORTH AMERICAN DATUM OF 1983.
2. ALL ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988.

STATEMENTS OF PROFESSIONAL REGISTRANT

THE APPROXIMATE ZONE A FLOODPLAIN AND FLOODWAY DELINEATIONS PRESENTED ON THE FOLLOWING SHEETS WERE PREPARED UNDER MY DIRECT SUPERVISION USING NEW HYDROLOGY PREPARED UNDER THIS CONTRACT.

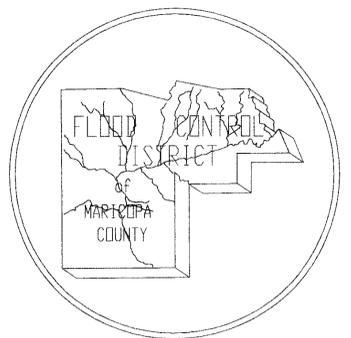


Brian R. Iserman

THE GROUND CONTROL SURVEY FOR SHEETS 1 THROUGH 3 WAS PREPARED UNDER MY DIRECT SUPERVISION.

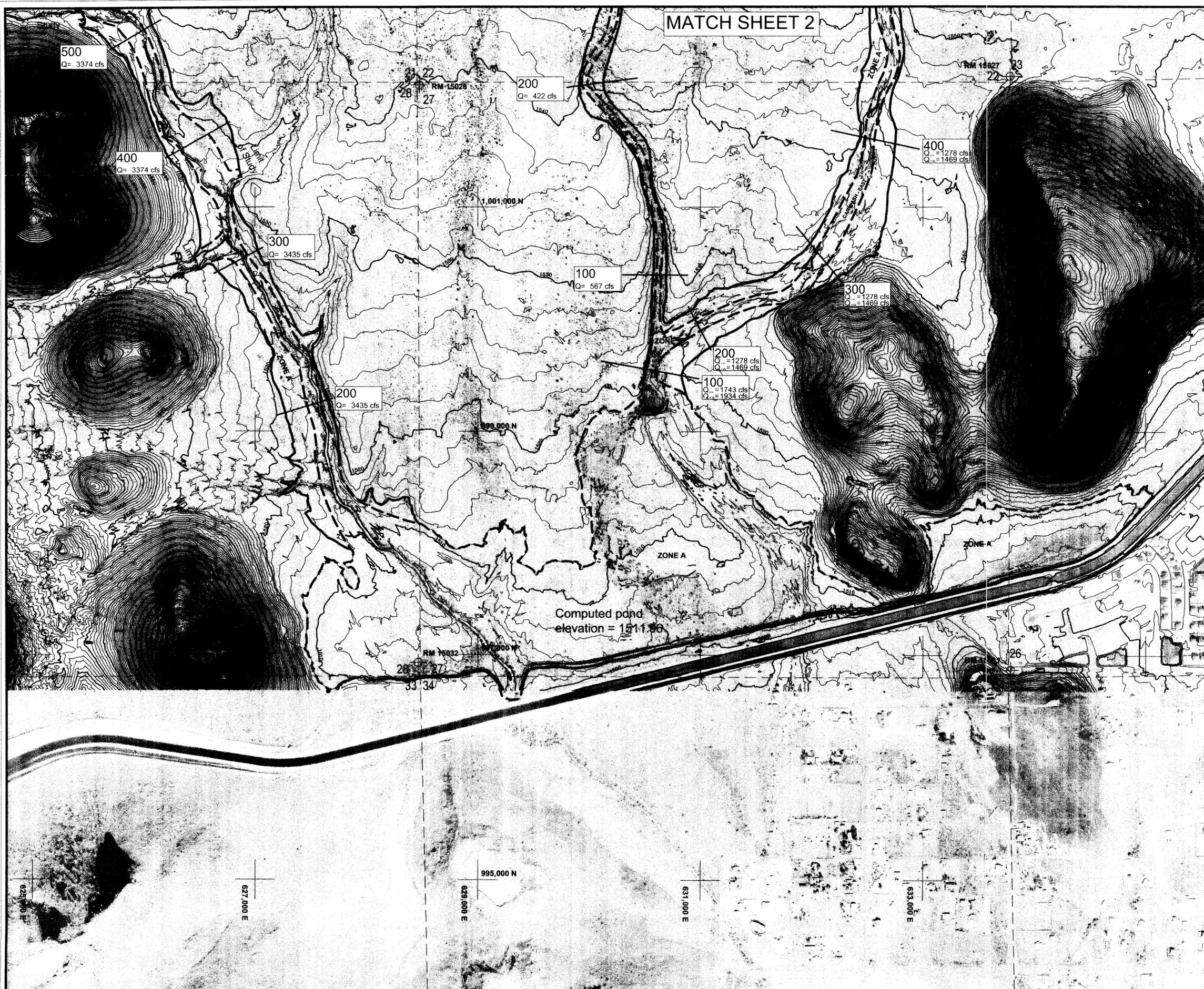


6101 S. Rural Road, Suite 110
Tempe, Arizona, 85281
480-752-2124



INDEX SHEET

February, 2004



LEGEND

100-YR FLOODPLAIN BOUNDARY	
100-YR ADMINISTRATIVE FLOODWAY	
CROSS SECTION	
ZONE DESIGNATION	ZONE A
CORPORATE LIMITS	Corporate Limits
COUNTY BOUNDARY	County Boundary
SECTION BOUNDARY & CORNER	
ELEVATION REFERENCE MARK	
STATE PLANE COORDINATES (NAD 83)	

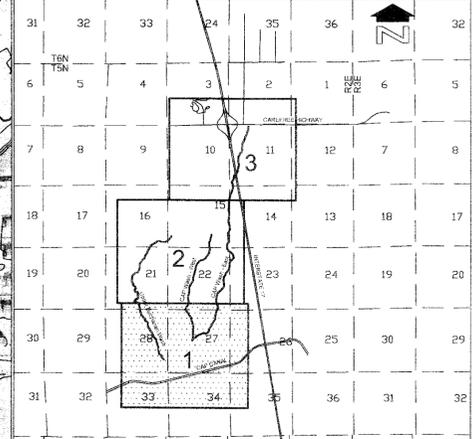
NOTES

- SECTION BOUNDARIES PROVIDED BY FCDM.
- HORIZONTAL PROJECTION IS ARIZONA STATE PLANE, CENTRAL ZONE, NORTH AMERICAN DATUM OF 1983.
- ALL ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1983.
- ERM INFORMATION PROVIDED BY FCDM.

ELEVATION REFERENCE MARKS

Station	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAD 83 Elevation (feet)	Description
RM 15027	1002161.63	633786.67	1548.79	Rebar and aluminum cap with punch mark, 10 feet east of the northeast corner of Section 27, T5N, R2E
RM 15028	1002107.71	628477.97	1539.02	Rebar and aluminum cap with punch mark, approximately 25 feet north of the northeast corner of Section 28, T5N, R2E
RM 15031	996870.28	633787.88	1505.67	PK nail in asphalt 9 feet east of City of Phoenix brass cap, brass cap is at west end of asphalt in Dynamite Boulevard approximately 1380 feet west of intersection with 33rd Ave.
RM 15032	996929.52	628465.20	1504.71	Rebar and aluminum cap with punch mark, approximately 90 feet north of the northeast corner of Section 33, T5N, R2E

SHEET INDEX MAP



FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

APPROXIMATE ZONE A FLOODPLAIN DELINEATION STUDY OF

BISCUIT FLAT AREA
(UPPER BUCHANAN WASH. CAP WASH-WEST & CAP WASH-EAST) 2002C001

ADOBE DAM/DESERT HILLS AREA DRAINAGE MASTER PLAN
May, 2005 Update

SCALE IN FEET
400' 0' 400' 800'
CONTOUR INTERVAL = 2 FEET

SHEET 1 OF 3

MATCH SHEET 3

LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- 100-YR ADMINISTRATIVE FLOODWAY
- CROSS SECTION **800**
Q= 4000 cfs
- ZONE DESIGNATION **ZONE A**
- CORPORATE LIMITS
- COUNTY BOUNDARY
- SECTION BOUNDARY & CORNER
- ELEVATION REFERENCE MARK
- STATE PLANE COORDINATES (NAD 83)

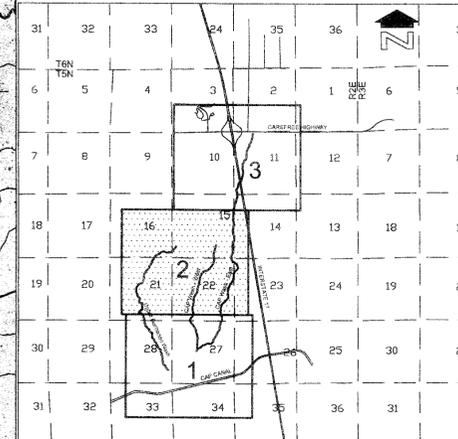
NOTES

1. SECTION BOUNDARIES PROVIDED BY FCDMC
2. HORIZONTAL PROJECTION IS ARIZONA STATE PLANE, CENTRAL ZONE, NORTH AMERICAN DATUM OF 1983
3. ALL ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1985
4. ENM INFORMATION PROVIDED BY FCDMC

ELEVATION REFERENCE MARKS

Station	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 86 Elevation (feet)	Description
RM 16	1003427.73	628540.74	1537.78	Rebar and aluminum cap stamped "PP 16", in desert area. No intersections nearby.
RM 1JD2	1007525.65	628889.99	1578.90	Maricopa County Department of Transportation GDACS Monument: NGS Point ID AJ3702
RM 15025	1007452.51	633737.67	1586.97	Rebar and aluminum cap with punch mark, approximately 1300 feet westerly of the right of way for I-17 and lying just southwest of a stone at the northeast corner of Section 22, T5N, R2E
RM 15026	1007521.99	628863.77	1578.46	Rebar and aluminum cap stamped "PP 17" in desert area. No intersections nearby.

SHEET INDEX MAP

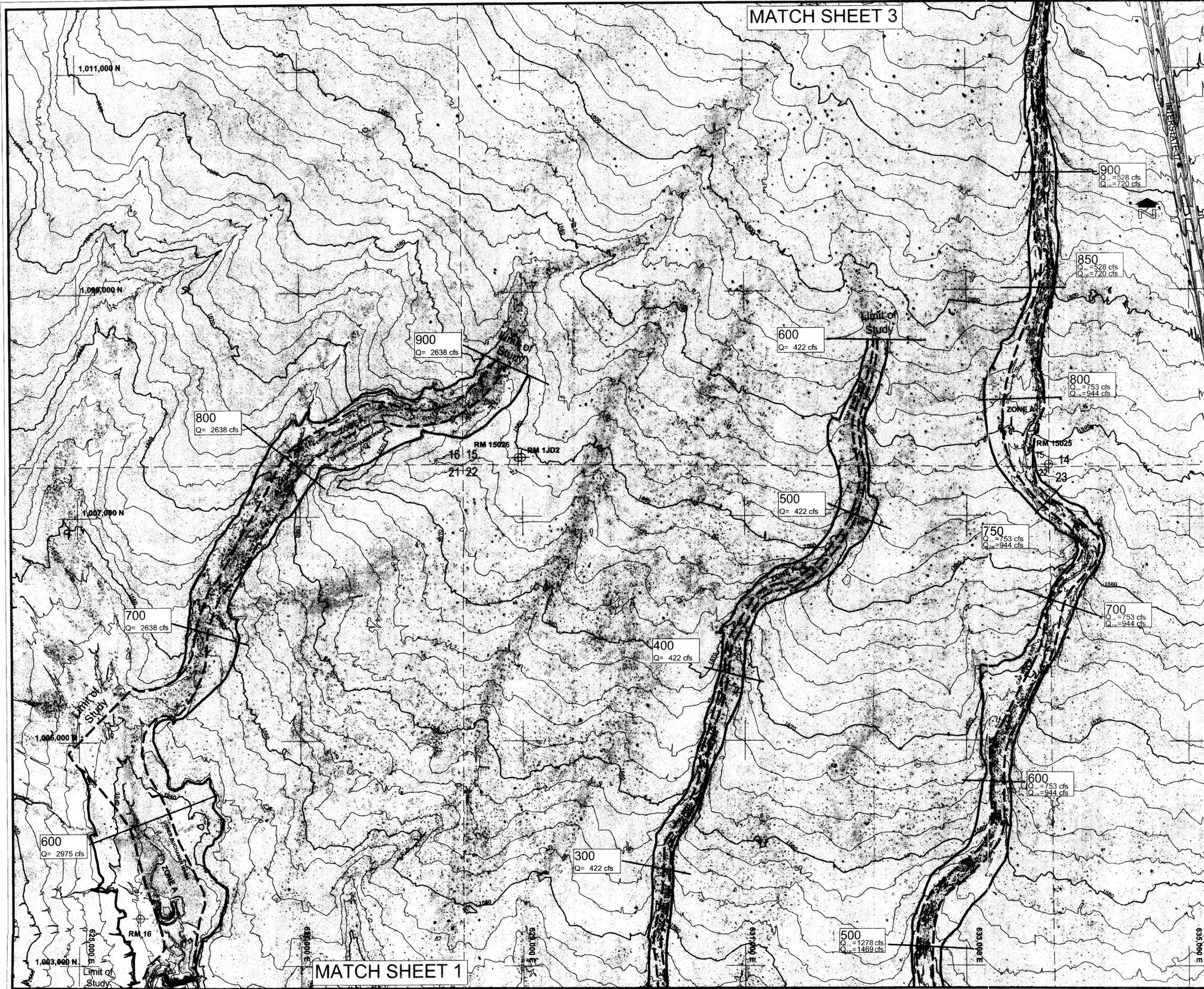
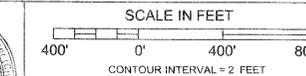


FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

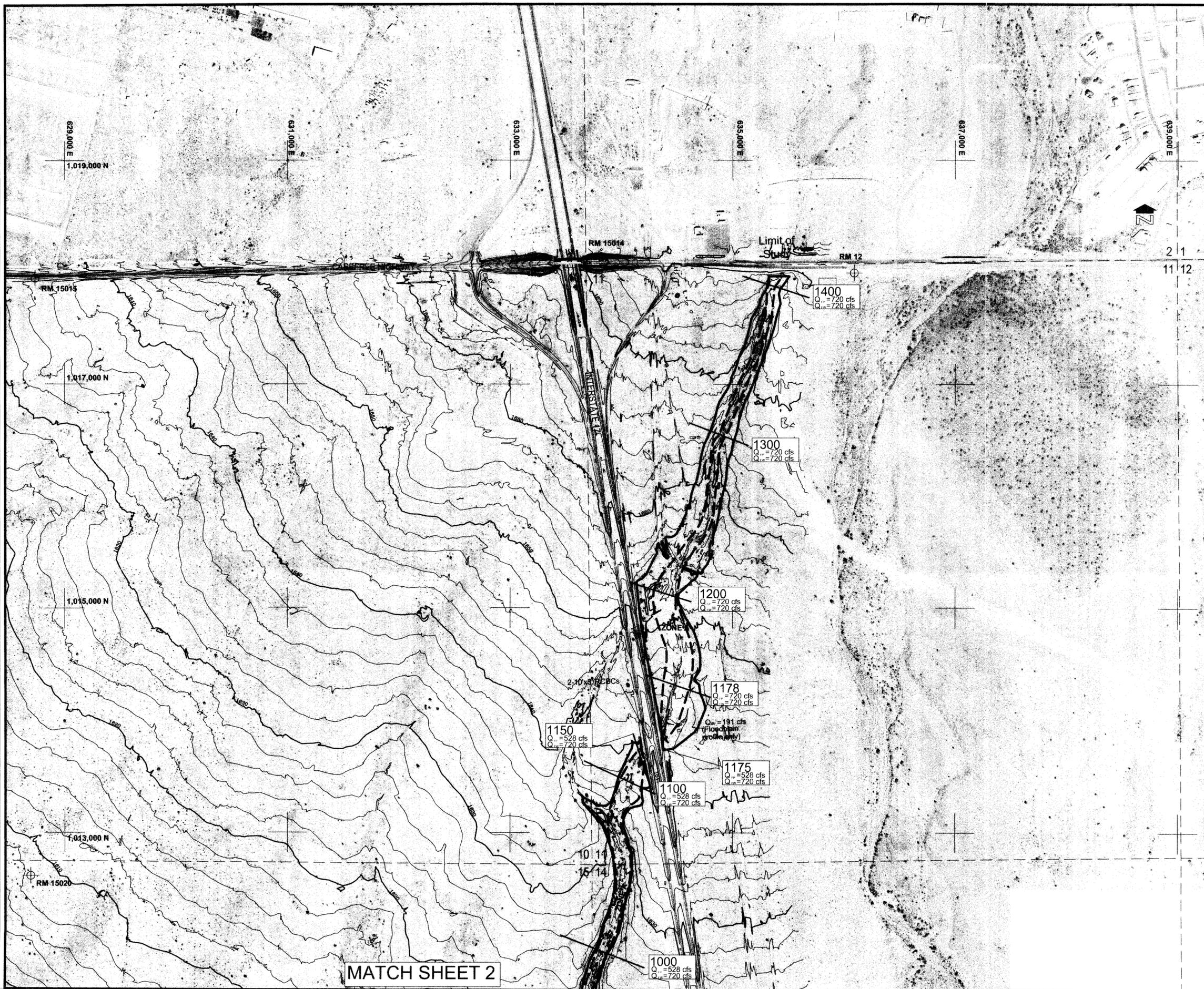
APPROXIMATE ZONE A FLOODPLAIN DELINEATION STUDY OF

BISCUIT FLAT AREA
(UPPER BUCHANAN WASH. CAP WASH-WEST & CAP WASH-EAST) 2002C001

ADOBE DAM/DESERT HILLS AREA DRAINAGE MASTER PLAN
May, 2005 Update



THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS FOR 1"=200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS. AERIAL PHOTOGRAPHY & TOPOGRAPHIC DATA PROVIDED TO THE FLOOD CONTROL DISTRICT OF MARICOPA COUNTY BY COOPER AERIAL. FLIGHT DATE: 5/02/2002. GROUND CONTROL SURVEY DATA PROVIDED BY RBF CONSULTING.



LEGEND

100-YR FLOODPLAIN BOUNDARY	
100-YR ADMINISTRATIVE FLOODWAY	
CROSS SECTION	
ZONE DESIGNATION	ZONE A
CORPORATE LIMITS	Corporate Limits
COUNTY BOUNDARY	County Boundary
SECTION BOUNDARY & CORNER	
ELEVATION REFERENCE MARK	
STATE PLANE COORDINATES (NAD 83)	

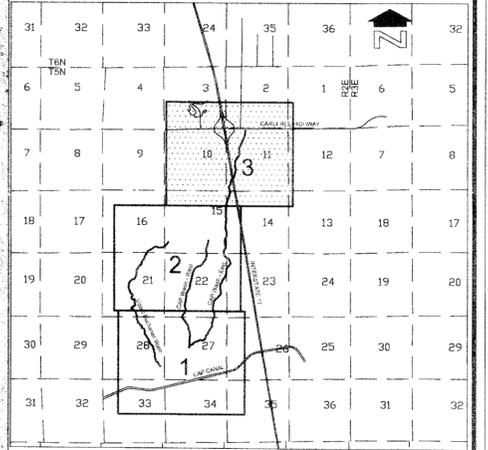
NOTES

- SECTION BOUNDARIES PROVIDED BY FCDM/C
- HORIZONTAL PROJECTION IS ARIZONA STATE PLANE, CENTRAL ZONE, NORTH AMERICAN DATUM OF 1983.
- ALL ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988
- ERM INFORMATION PROVIDED BY FCDM/C

ELEVATION REFERENCE MARKS

Station	NAD 83 Northing (feet)	NAD 83 Easting (feet)	Elevation (feet)	Description
RM 12	1017989.15	638090.29	1679.00	Rebar and aluminum cap stamped "RP 12", approximately 30 feet south of edge of pavement on Carefree Highway, approximately 1050 feet east of the intersection with 33rd Avenue.
RM 15014	1018055.55	633693.42	1691.37	PK Nail, 5 feet south of the guard rail at the southeast quadrant of Carefree Highway and I-17.
RM 15015	101937.99	628735.62	1635.32	Rebar and aluminum cap with punch mark, approximately 25 feet northerly of the northeast corner of Section 3, T5N, R2E, which lies in the southwest quadrant of the intersection of Carefree Highway and Long Shot Lane.
RM 15020	1012815.58	628694.54	1608.48	Rebar and aluminum cap with punch mark, approximately 4 feet northwesterly of the northeast corner of Section 16, T5N, R2E.

SHEET INDEX MAP

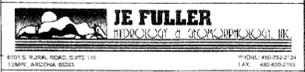
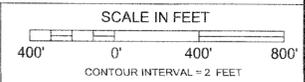


FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

APPROXIMATE ZONE A FLOODPLAIN DELINEATION STUDY OF

BISCUIT FLAT AREA
(UPPER BUCHANAN WASH, CAP WASH-WEST & CAP WASH-EAST)
2002C001

ADOBE DAM/DESERT HILLS AREA DRAINAGE MASTER PLAN
May, 2005 Update

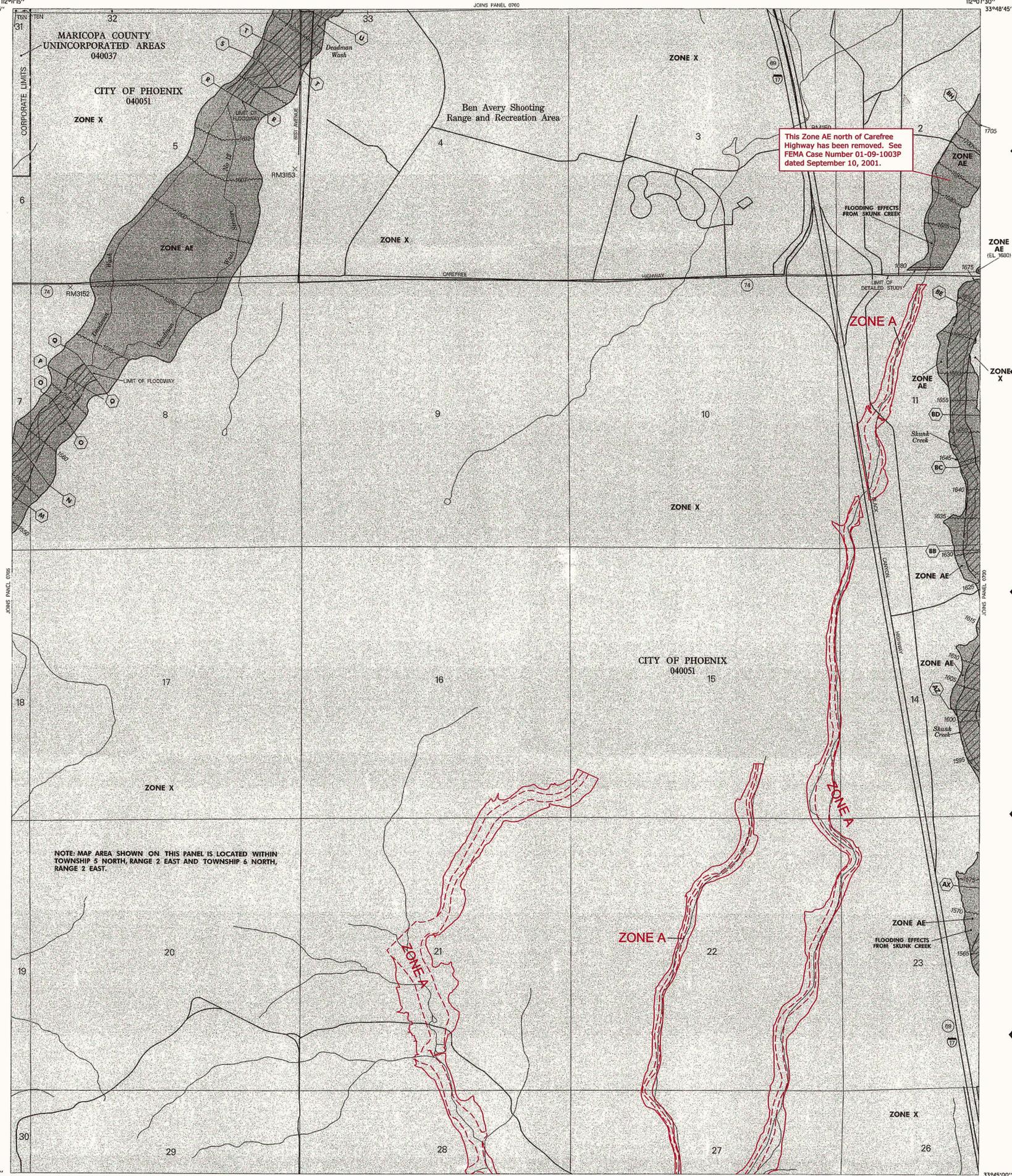


MATCH SHEET 2

EXHIBIT C
ANNOTATED FLOOD INSURANCE RATE MAPS

A B C D E F G

ELEVATION REFERENCE MARKS
REFERENCE ELEVATION MARK (FEET NGVD) **DESCRIPTION OF LOCATION**
 RM150 1682.71 Arizona Highway Department brass cap at centerline of headwall on east side of Interstate 17 near north end of northbound on-ramp at Carefree Highway, marked Station 1552.54.
 RM3152 1586.85 Arizona Department of Transportation P&M brass cap on concrete post stamped Gate of mile post 28, 3.5 feet north of south right-of-way fence of Carefree Highway, 920 feet east of northwest quarter corner of section 9, T5N, R2E.
 RM3153 1611.46 Brass cap on 6-inch-diameter concrete post stamped 1611.46 300 feet southwest of east quarter corner of section 5, T5N, R2E.



LEGEND

- SPECIAL FLOOD HAZARD AREAS INUNDATED BY 100-YEAR FLOOD**
- ZONE A** No base flood elevations determined.
- ZONE AE** Base flood elevations determined.
- ZONE AH** Flood depths of 1 to 3 feet usually areas of ponding; base flood elevations determined.
- ZONE AO** Flood depths of 1 to 3 feet usually sheet flow on sloping terrain; average depths determined; for areas of alluvial fan flooding, velocities also determined.
- ZONE A99** To be protected from 100-year flood by Federal flood protection system under construction; no base flood elevations determined.
- ZONE V** Coastal flood with velocity hazard (wave action); no base flood elevations determined.
- ZONE VE** Coastal flood with velocity hazard (wave action); base flood elevations determined.
- FLOODWAY AREAS IN ZONE AE**
- OTHER FLOOD AREAS**
- ZONE X** Areas of 500-year flood; areas of 100-year flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 100-year flood.
- OTHER AREAS**
- ZONE X** Areas determined to be outside 500-year floodplain.
- ZONE D** Areas in which flood hazards are undetermined.
- UNDEVELOPED COASTAL BARRIERS**
- Identified 1983 Coastal barrier areas are normally located within or adjacent to Special Flood Hazard Areas.
- Identified 1983 Other Coastal Barrier Areas
- Floodplain Boundary
- Floodway Boundary
- Zone D Boundary
- Boundary Dividing Special Flood Hazard Zones, and Boundary Dividing Areas of Different Coastal Base Flood Elevations Within Special Flood Hazard Zones.
- Base Flood Elevation Line: Elevation in Feet See Map Index for Elevation Datum
- Base Flood Elevation in Feet Where Uniform Within Zone See Map Index for Elevation Datum, Elevation Reference Mark
- RM7 X River Mile

NOTES

This map is for use in administering the National Flood Insurance Program; it does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size, or all planned structures outside Special Flood Hazard Areas. The community map repository should be consulted for more detailed data on BE's, and for any information on floodway delineations, prior to use of this map for property purchase or construction purposes.

Areas of Special Flood Hazard (100-year flood) include Zones A, AE, AH, AO, A99, V, VE and X.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures.

Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the Federal Emergency Management Agency.

Floodway widths in some areas may be too narrow to show to scale. Refer to Floodway Data Table where floodway width is shown as 100 feet.

Corporate limits shown are current as of the date of this map. The user should contact appropriate community officials to determine if corporate limits have changed subsequent to the issuance of this map.

This map may incorporate approximate boundaries of Coastal Barrier Resource System Units and/or Other Coastal Barrier Areas established under the Coastal Barrier Improvement Act of 1990 (PL 101-591).

For community map revision history prior to countywide mapping see Section 6.0 of the Flood Insurance Study Report.

For adjoining map panels and base map source see separately printed Map Index.

MAP REPOSITORY
 Refer to Repository Listing on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP:
 APRIL 15 1998

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL:

Map revised July 19, 2001 to update corporate limits, to change base flood elevations, to add base flood elevations, to add Special Flood Hazard Areas, to change Special Flood Hazard Areas, to change zone designations, to update map format to add roads and road names, and to incorporate previously issued Letters of Map Revision.

To determine if flood insurance is available, contact an insurance agent or call the National Flood Insurance Program at (800) 638-6620.

APPROXIMATE SCALE IN FEET
 1000 0 1000

LEGEND FOR ANNOTATION

- 100-YR Floodplain Boundary
- 100-YR Administrative Floodway Boundary

JE Fuller/Hydrology & Geomorphology, Inc. Updated May, 2005

LEGEND

To obtain more detailed information in areas where Base Flood Elevations (BFEs) and/or Floodways have been determined, users are encouraged to consult the Flood Profiles and Floodway Data Tables contained within the Flood Insurance Study (FIS) report that accompanies a FIS. Users should be aware that BFEs shown on the FIS represent rounded whole-foot elevations and therefore may not exactly reflect the flood elevation data presented in the FIS. BFEs shown on the FIS are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS should be utilized in conjunction with the FIS for purposes of construction and/or floodplain management.

EIM elevations shown on this map were obtained and/or developed to establish vertical control for determination of flood elevations and floodplain boundaries. Users of this map should be aware that these EIM elevations may have changed since the publication of this map. To obtain up-to-date elevation information on National Geospatial Survey (NGS) EIMs shown on this map, please contact the Information Services Branch of the NGS at (301) 713-2342 or visit their website at www.ngs.noaa.gov. Map users should seek verification of non-NGS EIM measurement elevations when using these elevations for construction or floodplain management purposes.

Coastal BFEs shown on this map may apply on landward of 0.0 NGVD. Users of the FIS should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this community. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown in this FIS.

NOTE: MAP AREA SHOWN ON THIS PANEL IS LOCATED WITHIN TOWNSHIP 5 NORTH, RANGE 2 EAST AND TOWNSHIP 6 NORTH, RANGE 2 EAST.

NATIONAL FLOOD INSURANCE PROGRAM

FIRM FLOOD INSURANCE RATE MAP

MARICOPA COUNTY, ARIZONA AND INCORPORATED AREAS

PANEL 770 OF 4350
 (SEE MAP INDEX FOR PANELS NOT PRINTED)

COMMUNITY	NUMBER	PANEL	SUFFIX
MARICOPA COUNTY UNINCORPORATED AREAS	040031	0770	E
PHOENIX CITY OF	040051	3770	E

MAP NUMBER 040130770 E

MAP REVISED: JULY 19, 2001

Federal Emergency Management Agency

MARK	ELEVATION (FEET NGVD)	DESCRIPTION OF LOCATION
RMS09	1482.46	Set 1/2-inch rebar with aluminum cap stamped #15, 1000 feet q south-southwest point #714, 75 feet q south of west end of foot of a rocky hill, 0.10 foot above the surface.
RMS10	1482.77	Set 1/2-inch rebar with aluminum cap stamped #16, 60 feet q south of fence corner #5, 65 feet q east-southeast of power pole #27500, 15 feet q east of gravel road, 0.21 above the surface.
RMS11	1500.39	Found U.S. Department of the Interior brass cap, along CAP Canal stamped point #37, Station 373 + 41.83, 125 feet right.
RMS12	1514.09	Found U.S. Department of the Interior brass cap, along CAP Canal stamped point #37, Station 373 + 41.84, 150 feet right.
RMS13	1524.81	Set 1/2-inch rebar with aluminum cap stamped #19, 2000 feet q south of Canal 75 feet q west end of a loop trail in a draw north side of Deem Hills.
RMS14	1523.02	Found U.S. Department of the Interior brass cap point of intersection 175 feet right back 150 feet ahead right.
RMS15	1503.88	Found ADOT benchmark stamped 517-3 in concrete cylinder 300 feet q north of northeast corner of section 33, T5N, R2E.
RMS16	1502.16	Found U.S. Department of the Interior brass cap, along CAP Canal, Point #43, Station 386 + 00, 125 feet right.
RMS17	1499.81	Found U.S. Department of the Interior brass cap, along CAP Canal, Point #45, Station 402 + 67.37, 125 feet right.
RMS18	1502.11	Found 1/2-inch iron pipe 0.25 foot above surface at the northeast corner of section 33, T5N, R2E.
RMS19	1555.10	Found stone at the southeast corner of section 34, T5N, R2E.
RMS20	1457.81	Found 1/2-inch rebar South of 10 + West of the Ice Sluick Creek Levee 0.10 above the surface. Assumed to be North 1/4 corner of Section 2 T5N R2E.
RMS21	1477.93	Found 1/2-inch iron pipe flush at the center east 1/16th corner of section 34, T5N, R2E.
RMS22	1472.02	Found 1/2-inch iron pipe 0.08 foot below the surface of the east quarter corner of section 34, T5N, R2E.

LEGEND FOR ANNOTATION

100-YR Floodplain Boundary	—
100-YR Administrative Floodway Boundary	- - -

JE FullerHydrology & Geomorphology, Inc. Updated March, 2005

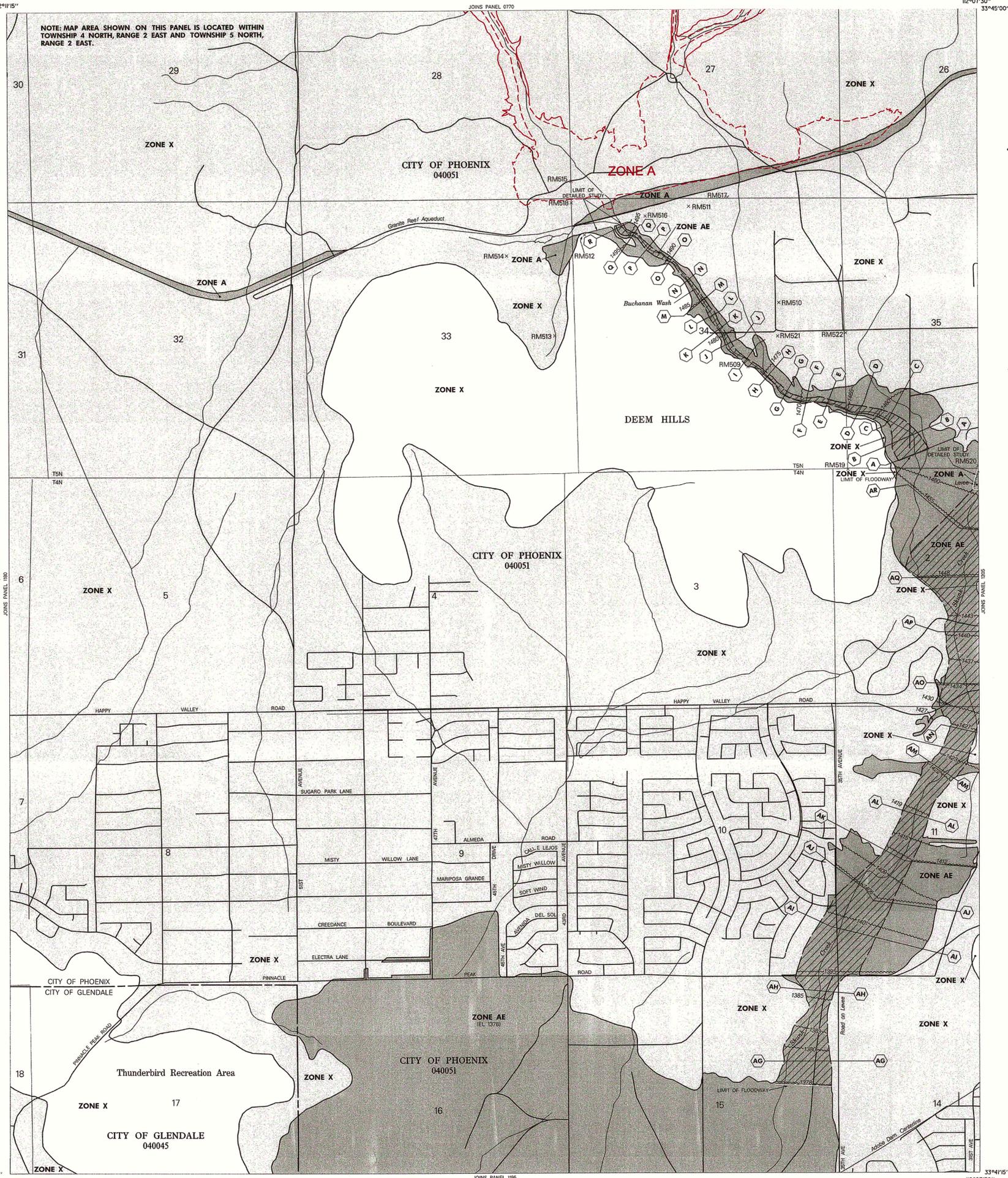
LEGEND

To obtain more detailed information in areas where Base Flood Elevations (BFEs) or Floodways have been determined, users are encouraged to consult the Flood Profiles and Floodway Data tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations and therefore may not exactly reflect the flood elevation data presented in the FIS. BFEs shown on the FIRM are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS should be updated in conjunction with the FIRM for purposes of construction and/or floodplain management.

FIRM elevations based on this map were obtained and/or developed to establish vertical control for determination of flood elevations and floodplain boundaries portrayed on this map. Users should be aware that these FIRM elevations may have changed since the publication of this map. To obtain up-to-date elevation information on National Geodetic Survey (NGS) Elevation Benchmarks (EBMs) shown on this map, please contact the Information Services Branch of the NGS at (202) 775-3242, or visit their website at www.ngs.noaa.gov. Map users should seek verification of non-NGS EBM monument elevations when using these elevations for construction or floodplain management purposes.

Coastal BFEs shown on this map may apply only instead of 0.3' NGVD. Users of this FIRM should be aware that coastal flood elevations are provided in the Summary of Significant Elevations table in the FIS report for this community. Floodway boundaries, Summary of Significant Elevations table should be used for construction and/or floodplain management purposes. Floodway boundaries shown on this map are not to be used for purposes other than the elevations shown on this map.

NOTE: MAP AREA SHOWN ON THIS PANEL IS LOCATED WITHIN TOWNSHIP 4 NORTH, RANGE 2 EAST AND TOWNSHIP 5 NORTH, RANGE 2 EAST.



LEGEND

SPECIAL FLOOD HAZARD AREAS INUNDED BY 100-YEAR FLOOD

- ZONE A** No base flood elevations determined.
- ZONE AE** Base flood elevations determined.
- ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); base flood elevations determined.
- ZONE AO** Flood depths of 1 to 3 feet (usually short flow on sloping terrain; average depths determined); for areas of littoral fan flooding, velocities also determined.
- ZONE A99** To be protected from 100-year flood by Federal flood protection system under construction; no base flood elevations determined.
- ZONE V** Coastal flood with velocity hazard (wave action); no base flood elevations determined.
- ZONE VE** Coastal flood with velocity hazard (wave action); base flood elevations determined.

FLOODWAY AREAS IN ZONE AE

OTHER FLOOD AREAS

- ZONE X** Areas of 500-year flood; areas of 100-year flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 100-year flood.
- OTHER AREAS** Areas determined to be outside 500-year floodplain.
- ZONE D** Areas in which flood hazards are undetermined.

UNDEVELOPED COASTAL BARRIERS

- Identified BMB
- Coastal barrier areas are normally located within or adjacent to Special Flood Hazard Areas.
- Identified PMA
- Otherwise Protected Area

BOUNDARIES

- Coastal Boundary
- Floodway Boundary
- Zone A Boundary
- Zone AE Boundary
- Zone X Boundary
- Zone D Boundary
- Zone V Boundary
- Zone VE Boundary
- Zone AO Boundary
- Zone AH Boundary
- Zone AO99 Boundary
- Zone V Boundary
- Zone VE Boundary
- Zone AO Boundary
- Zone AH Boundary
- Zone AO99 Boundary

BASE FLOOD ELEVATION LINE

Elevation in Feet. See Map Index for Elevation Datum.

CROSS SECTION LINE

Base Flood Elevation in Feet Within Zone. See Map Index for Elevation Datum.

ELEVATION REFERENCE MARK

RMS

RIVER MILE

Horizontal Coordinates Based on North American Datum of 1987 (NAD 87) Projection.

NOTES

This map is for use in administering the National Flood Insurance Program; it does not necessarily identify areas subject to flooding, particularly from flood damage sources of small size or all diameters. However, outside Special Flood Hazard Areas. The community map repository should be consulted for more detailed data on BFEs, and for any information on floodway delineations, prior to use of this map for property purchase or construction purposes.

Areas of Special Flood Hazard (100-year flood) include Zones A, AE, AH, AO, A99, V, VE and VI-VI0.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures.

Boundaries of the Floodways were computed at cross sections and interpolated between cross sections. The Floodways were based on hydraulic considerations with regard to requirements of the Federal Emergency Management Agency.

Floodway widths in some areas may be too narrow to show to scale. Refer to Floodway Data Table where floodway width is shown at 1/2 inch.

Corporate limits shown are current as of the date of this map. The user should contact appropriate community officials to determine if corporate limits have changed subsequent to the issuance of this map.

This map may incorporate approximate boundaries of Coastal Barrier Resource System Units and/or Otherwise Protected Areas established under the Coastal Barrier Improvement Act of 1990 (P.L. 101-681).

For community map revision history prior to countywide mapping, see Section 6.0 of the Flood Insurance Study Report.

For adjoining map panels and base map source see separately printed Map Index.

MAP REPOSITORY

Refer to Repository Listing on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP:

APRIL 15, 1988

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL:

SEPTEMBER 29, 1989, SEPTEMBER 4, 1991

Map revised July 19, 2001 to update corporate limits, to change base flood elevations, to add base flood elevations, to add Special Flood Hazard Areas, to change Special Flood Hazard Areas, to change zone designations, to update map format, to add roads and road names, and to incorporate previously issued Letters of Map Revision.

To determine if flood insurance is available, contact an insurance agent or call the National Flood Insurance Program at (800) 368-8626.

APPROXIMATE SCALE IN FEET

1000 0 1000

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

MARICOPA COUNTY, ARIZONA AND INCORPORATED AREAS

PANEL 1185 OF 4350
(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS: COMMUNITY NUMBER PANEL SUFFIX

GLENDALE CITY OF PHOENIX CITY OF 040045 1185 G 040051 1185 G

MAP NUMBER 04013C1185 G

MAP REVISED: JULY 19, 2001

Federal Emergency Management Agency