ADOBE DAM/DESERT HILLS

AREA DRAINAGE MASTER PLAN

Part 4

Floodplain Delineation Study of Cline Creek

Technical Data Notebook

Volume 4

Flood Control District of Maricopa County

September 2004

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Flood Control District of Maricopa County, Arizona
FLOODPLAIN DELINEATION STUDY
OF

CLINE CREEK

ADOBE DAM / DESERT HILLS AREA DRAINAGE MASTER PLAN FCD 2002C001

TECHNICAL DATA NOTEBOOK
VOLUME 4 (Exhibits)

Submitted by:

JE Fuller / Hydrology and Geomorphology, Inc.
4800 S. Kyrene Road, Suite 210
Tempe, Arizona 85284
(480) 752-2124

on behalf of:

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

Registered Professional Engineer (Civil)
CERTIFICATE NO.
29325
BRIAN R.
ISERMAN
Date Signed 9-1-04
ARIZONA, U.S.A.

September, 2004

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VOLUME 4 OF THE TDN

EXHIBITS

Exhibit A: Work Study Maps

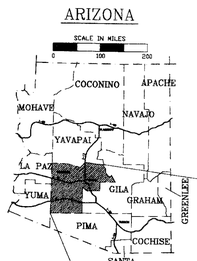
Exhibit B: Annotated Flood Insurance Rate Maps

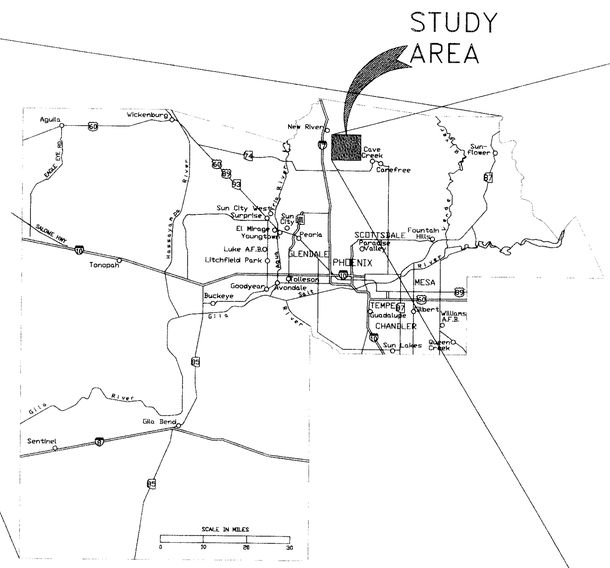
EXHIBIT A
HYDRAULICS STUDY WORK MAPS

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

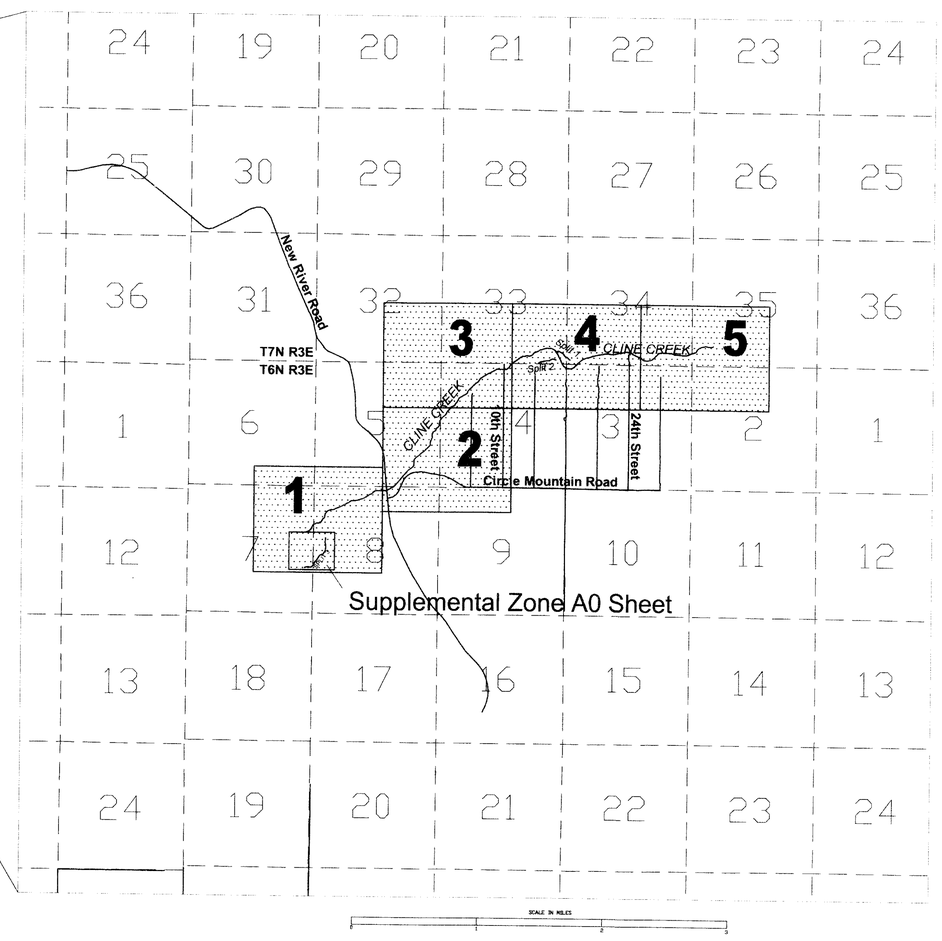
FLOODPLAIN DELINEATION STUDY OF CLINE CREEK

ADOBE DAM/DESERT HILLS AREA DRAINAGE MASTER PLAN, FCD 2002C001





MARICOPA COUNTY



NOTES

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2. ALL ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988.

STATEMENTS OF PROFESSIONAL REGISTRANT

THE FLOODPLAIN AND FLOODWAY DELINEATIONS PRESENTED ON THE FOLLOWING SHEETS WERE PREPARED UNDER MY DIRECT SUPERVISION USING HYDROLOGY PREPARED UNDER SEPARATE CONTRACT NUMBER FCD 99-23 BY TETRA TECH, INC. AUGUST, 2001..

REGISTERED PROFESSIONAL ENGINEER
CERTIFICATE NO. 29325
BRIAN R. ISERMAN
Date Signed 10-6-05
ARIZONA, U.S.A.

THE GROUND CONTROL SURVEY WAS PREPARED UNDER MY DIRECT SUPERVISION.

REGISTERED LAND SURVEYOR
37174
DANIEL K. MARDOCK
10-11-05
ARIZONA, U.S.A.

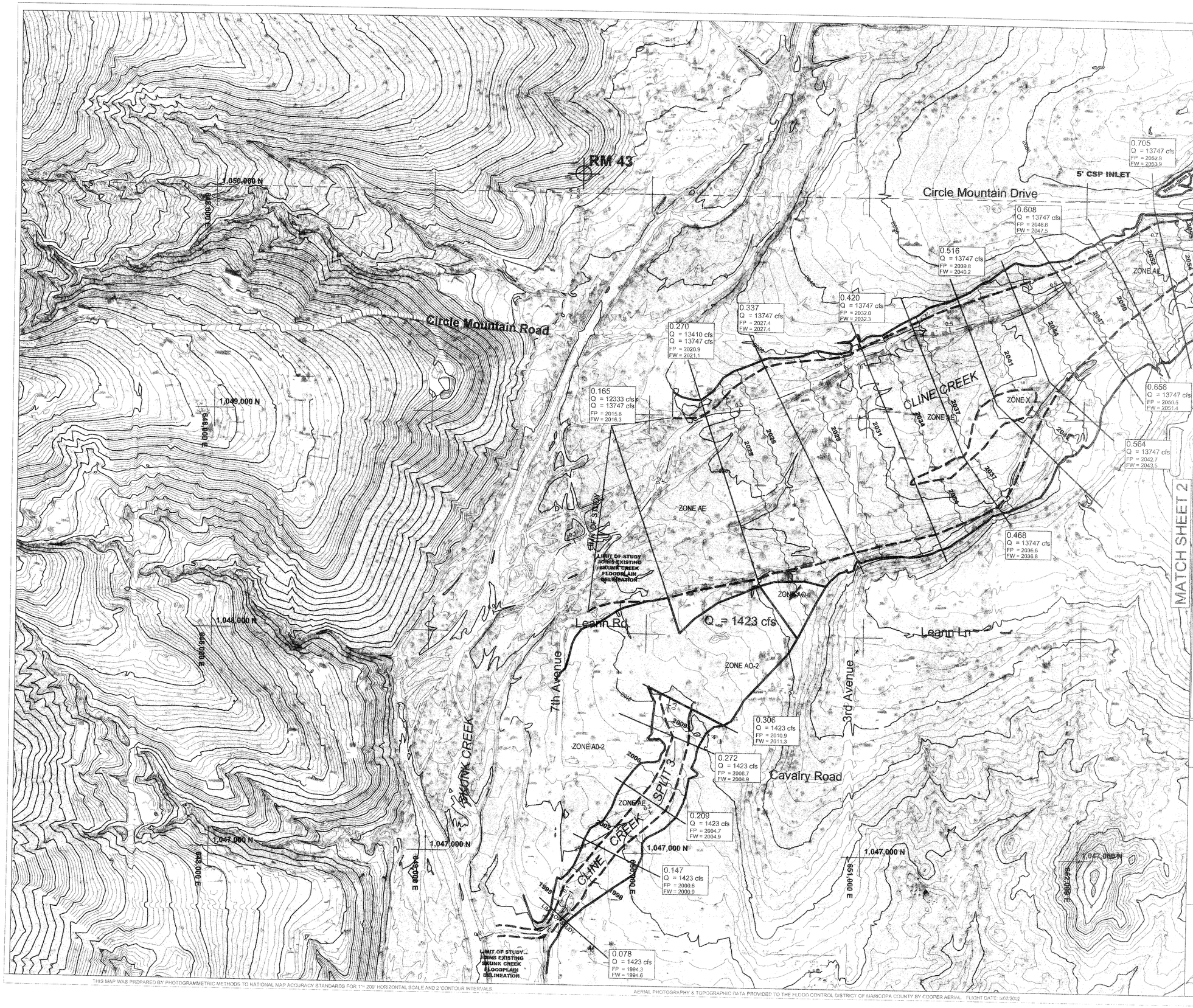
FLOOD CONTROL DISTRICT of MARICOPA COUNTY

N

JE FULLER
HYDROLOGY & GEOMORPHOLOGY, INC.

INDEX SHEET

SEPTEMBER, 2004



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- 100-YR FLOODWAY
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- EXISTING FLOODWAY
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- ZONE DESIGNATION — ZONE AE
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- COUNTY BOUNDARY — County Boundary
- ELEVATION REFERENCE MARK — RM5
- STATE PLANE COORDINATES — 1,046,800 N, 643,800 E

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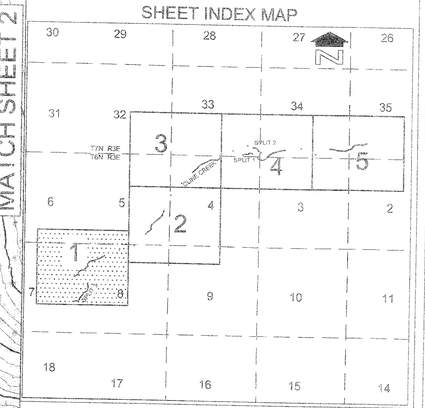
ELEVATION REFERENCE MARKS

Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)	Description
RM 43	1049873.31	649643.14	2028.49	Set rebar and alum. cap, stamped FCD 5128, on the east side of 7th Ave. north of Circle Mountain Road, 100 feet south of the fence at the north end of the road and 20 feet west of the fence along the east side of the road.

SHEET INDEX MAP



FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

FLOODPLAIN DELINEATION STUDY OF CLINE CREEK

FCD 2002C001
ADOBE DAM/DESERT HILLS AREA DRAINAGE MASTER PLAN
June, 2005

SCALE IN FEET
200' 0' 200' 400'
CONTOUR INTERVAL = 2 FEET

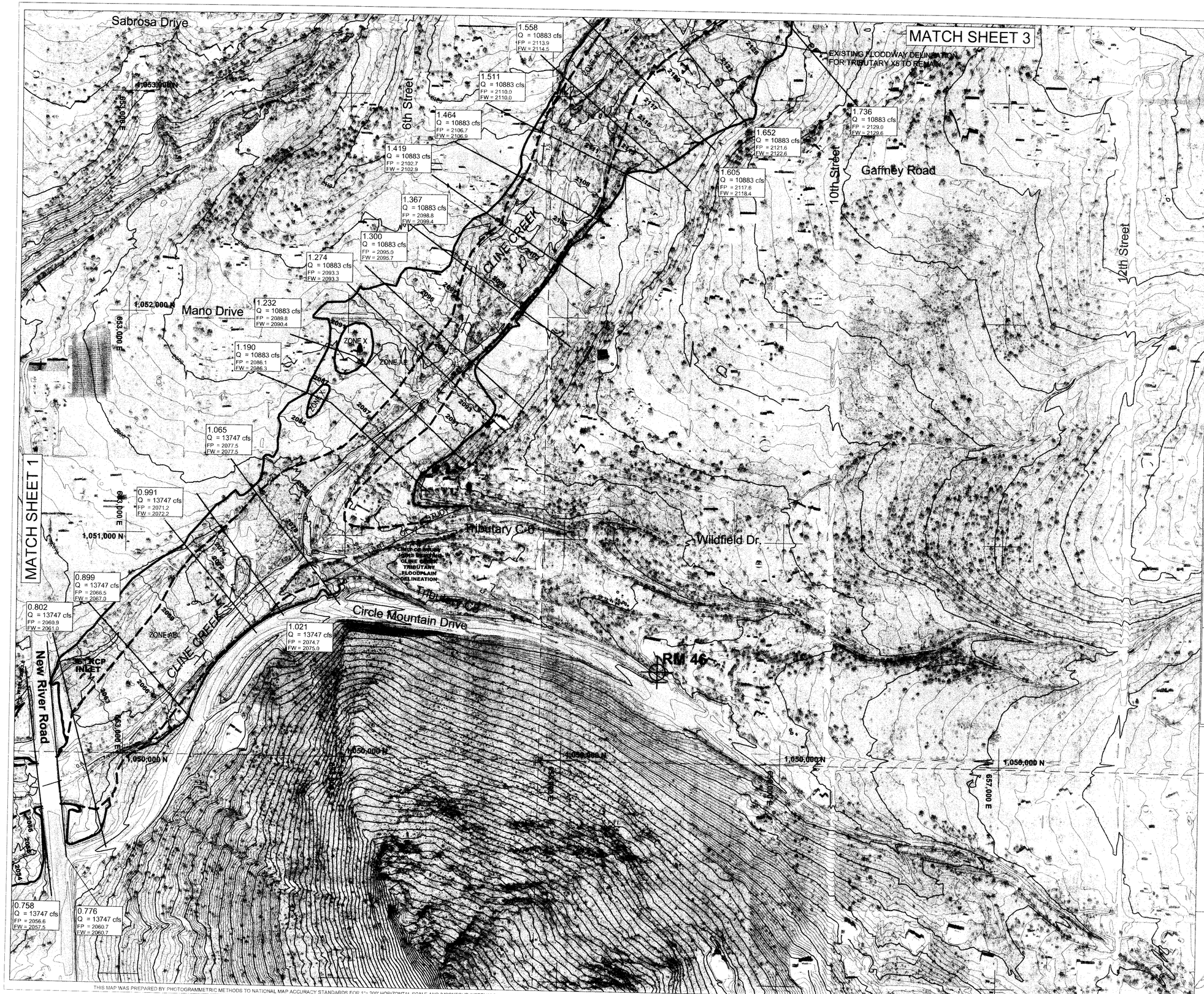
JE FULLER
HYDROLOGY & GEOMORPHOLOGY, INC.

SHEET 1 OF 5

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 FLOODWAY	
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EXISTING FLOODWAY	
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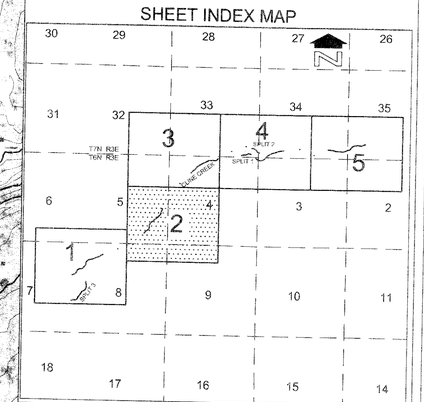
ELEVATION REFERENCE MARKS

Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)	Description
RM 46	1050177.03	655462.68	2107.51	Set rebar and aluminum cap stamped FCD 3135 approximately 50 feet south of Circle Mountain Road and approximately 250 feet west of 10th. Street.

SHEET INDEX MAP



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ADOBE DAM/DESERT HILLS AREA DRAINAGE MASTER PLAN
June, 2005

29325
BRIAN R. ISERMAN

SCALE IN FEET
200' 0' 200' 400'
CONTOUR INTERVAL = 2 FEET

JE FULLER
HYDROLOGY & GEOMORPHOLOGY, INC.
5415 E. KYRENE ROAD, SUITE 201
TUCSON, ARIZONA 85254
PHONE: 480-730-2124
FAX: 480-839-2180

SHEET 2 OF 5

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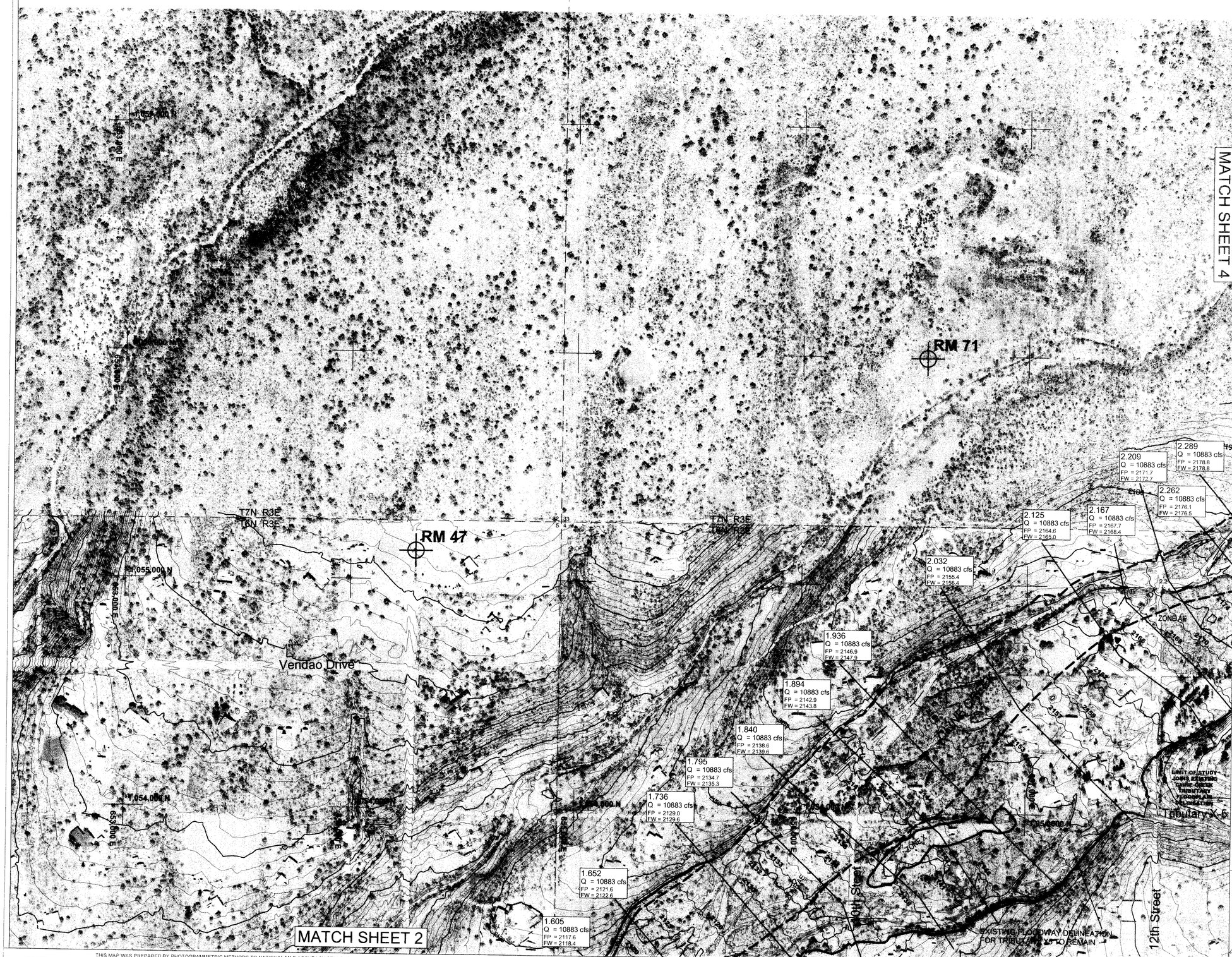
AERIAL PHOTOGRAPHY & TOPOGRAPHIC DATA PROVIDED TO THE FLOOD CONTROL DISTRICT OF MARICOPA COUNTY BY COOPER AERIAL. FLIGHT DATE: 5/02/2002

GROUND CONTROL SURVEY DATA PROVIDED BY RBF CONSULTING.



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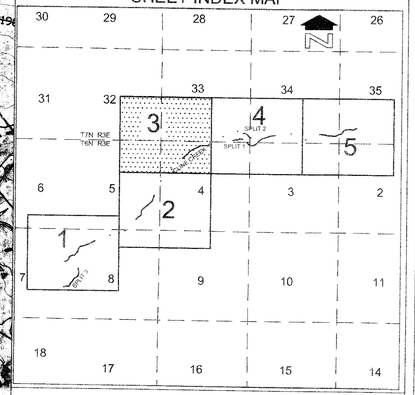
ELEVATION REFERENCE MARKS

Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)	Description
RM 47	1054961.83	654295.95	2171.18	Set rebar and aluminum cap stamped FCD 5136 0.1 miles north of Venado Dr. on 6th St. at dead end approximately 20 feet west of wooden fence.
RM 71	1055823.81	656517.87	2159.40	Set rebar and aluminum cap, stamped FCD 3, in national forest area. No intersections nearby.

SHEET INDEX MAP



FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

FLOODPLAIN DELINEATION STUDY OF

CLINE CREEK

FCD 2002C001
ADOBE DAM/DESERT HILLS AREA DRAINAGE MASTER PLAN
June, 2005

Registered Professional Engineer (Civil) CERTIFICATE NO. 29325 BRIAN R. ISERMAN Date Signed 6-6-05

SCALE IN FEET
200' 0' 200' 400'
CONTOUR INTERVAL = 2 FEET

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC.
4400 S. KYRENE ROAD, SUITE 201
TEMPE, ARIZONA 85282
P (480) 730-2122
FAX (480) 839-2175

SHEET 3 OF 5

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GROUND CONTROL SURVEY DATA PROVIDED BY RBF CONSULTING.

LEGEND

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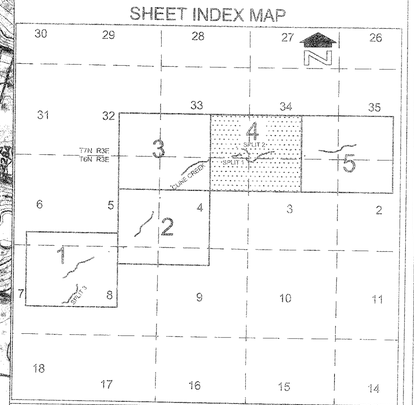
ELEVATION REFERENCE MARKS

Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)	Description
RM 50	1065264.26	660218.38	2220.21	Set rebar and aluminum cap, stamped FCD 5144, in desert area. No intersections nearby.

SHEET INDEX MAP



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JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC.
8280 E. KIVA STREET, SUITE 201
TEMPE, ARIZONA 85284
PHONE: 480-753-0731
FAX: 753-0731

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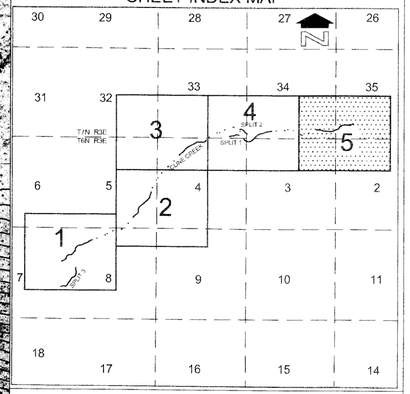
ELEVATION REFERENCE MARKS

Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)	Description
RM 53	105524.23	665686.33	2423.14	Set rebar and aluminum cap, stamped FCD 5151, in desert area. No intersections nearby.

SHEET INDEX MAP



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Registered
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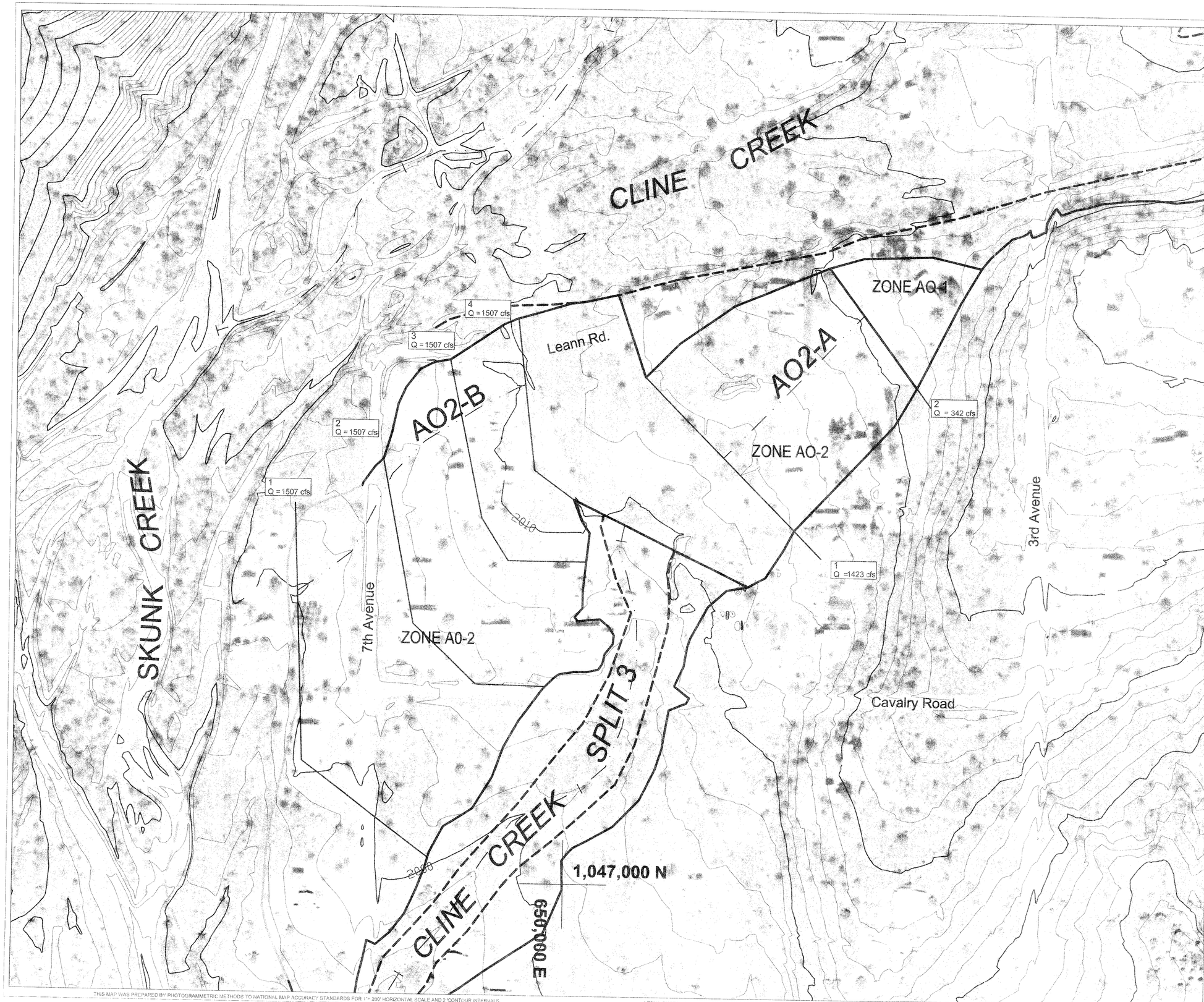

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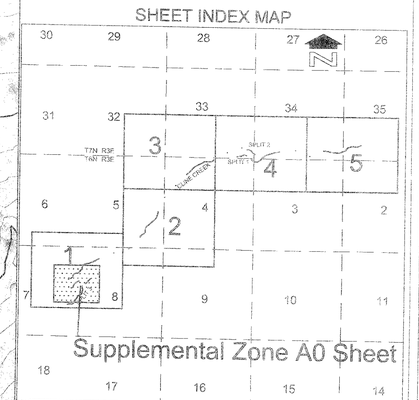
SHEET INDEX MAP



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ADOBE DAM/DESERT HILLS
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June, 2005 Supplement

29325
BRIAN R. ISERMAN

SCALE IN FEET
100' 0' 100' 200'
CONTOUR INTERVAL = 2 FEET

JE FULLER
HORIZON & TOPOGRAPHIC, INC.
4802 E. RAY RD., SUITE 23
PHOENIX, ARIZONA 85044
PHONE: 480-706-6118
FAX: 480-706-6193

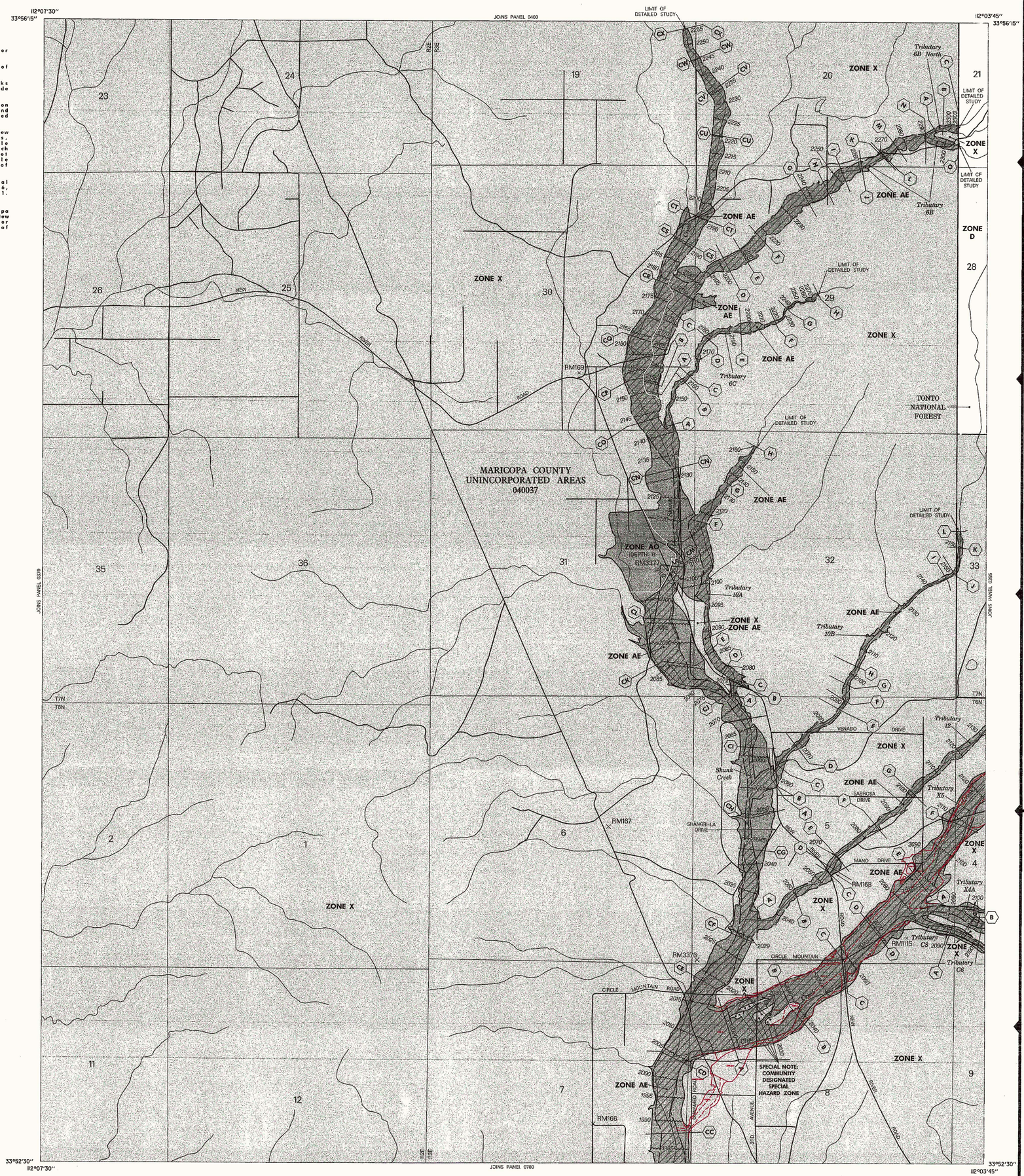
SHEET OF

GROUND CONTROL SURVEY DATA PROVIDED BY RBF CONSULTING

EXHIBIT B
ANNOTATED FLOOD INSURANCE RATE MAPS

ELEVATION REFERENCE MARKS

REFERENCE MARK	ELEVATION (FEET NGVD)	DESCRIPTION OF LOCATION
RM166	2103.76	Centerline intersection near center of section 7, T6N, R3E.
RM167	2151.43	Top concrete base for west leg of Tower No. 201-1.
RM168	2071.48	Southwest corner concrete sidewalks at entrance to church on east side of New River and Mano Roads.
RM169	2149.68	U.S. Geological Survey brass cap on north side of New River Road and west of dirt road northeast, marked 2MRP.
RM1115	2093.02	Beginning at intersection of New River and Circle Mountain Roads, thence 0.46 mile east on Circle Mountain Road to ERM 7, a -inch rebar set in concrete, 27.0 feet north of centerline of Circle Mountain Road and 3.0 feet west of power pole marked ERM #7.
RM3376	2038.52	2-1/2 inch brass cap, U.S. General Land Office, T6N, R3E, Section 6, Section 5, Section 7, Section 8, 1.2 feet+- above natural ground.
RM3377	2111.51	2-1/2 inch brass cap, Maricopa County Highway Department at New Creek bridge on top of west barrier wall, 21.9 +- from south end of barrier wall.



LEGEND

Proposed 100-Year Floodplain Limit

Proposed 100-Year Floodway Limit

Floodplain Delineation Study of Cline Creek
Adobe Dam/Desert Hills ADMP

ANNOTATED FIRM PANEL

JE Fuller Hydrology & Geomorphology, Inc. September, 2004

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 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 utilized in conjunction with the FIRM for purposes of construction and /or floodplain management.

ERM elevations listed 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 ERM elevations may have changed since the publication of this map. To obtain up-to-date elevation information on National Geodetic Survey (NGS) ERMs shown on this map, please contact the Information Services Branch of the NGS at (301) 713-3242, or visit their website at www.ngs.noaa.gov. Map users should seek verification of non-NGS ERM monument elevations when using these elevations for construction or floodplain management purposes.

Coastal BFE's shown on this map may apply only landward of 0.0' NGVD. Users of this FIRM 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 on this FIRM.

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 | Identified 1990 | Otherwise Protected Areas

Coastal barrier areas are normally located within or adjacent to Special Flood Hazard 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

513 — Base Flood Elevation Line; Elevation in Feet. See Map Index for Elevation Datum.

D — D — Cross Section Line

(EL 987) — Base Flood Elevation in Feet Where Uniform Within Zone. See Map Index for Elevation Datum

RM7 × — Elevation Reference Mark

● M2 — River Mile

97°07'30", 32°22'30" — Horizontal Coordinates Based on North American Datum of 1927 (NAD 27) Projection.

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 planimetric features outside Special Flood Hazard Areas. The community map repository should be consulted for more detailed data on BFE'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, A1-A30, AH, AO, A99, V, VE and V1-V30.

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 1/20 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 (PL 101-591).

For community map revision history prior to countywide mapping, see Section 6.C 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:
DECEMBER 3, 1993

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

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

MARICOPA COUNTY, ARIZONA AND INCORPORATED AREAS

PANEL 390 OF 4350
(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS: COMMUNITY	NUMBER	PANEL	SUFFIX
MARICOPA COUNTY, UNINCORPORATED AREAS	040037	0390	F

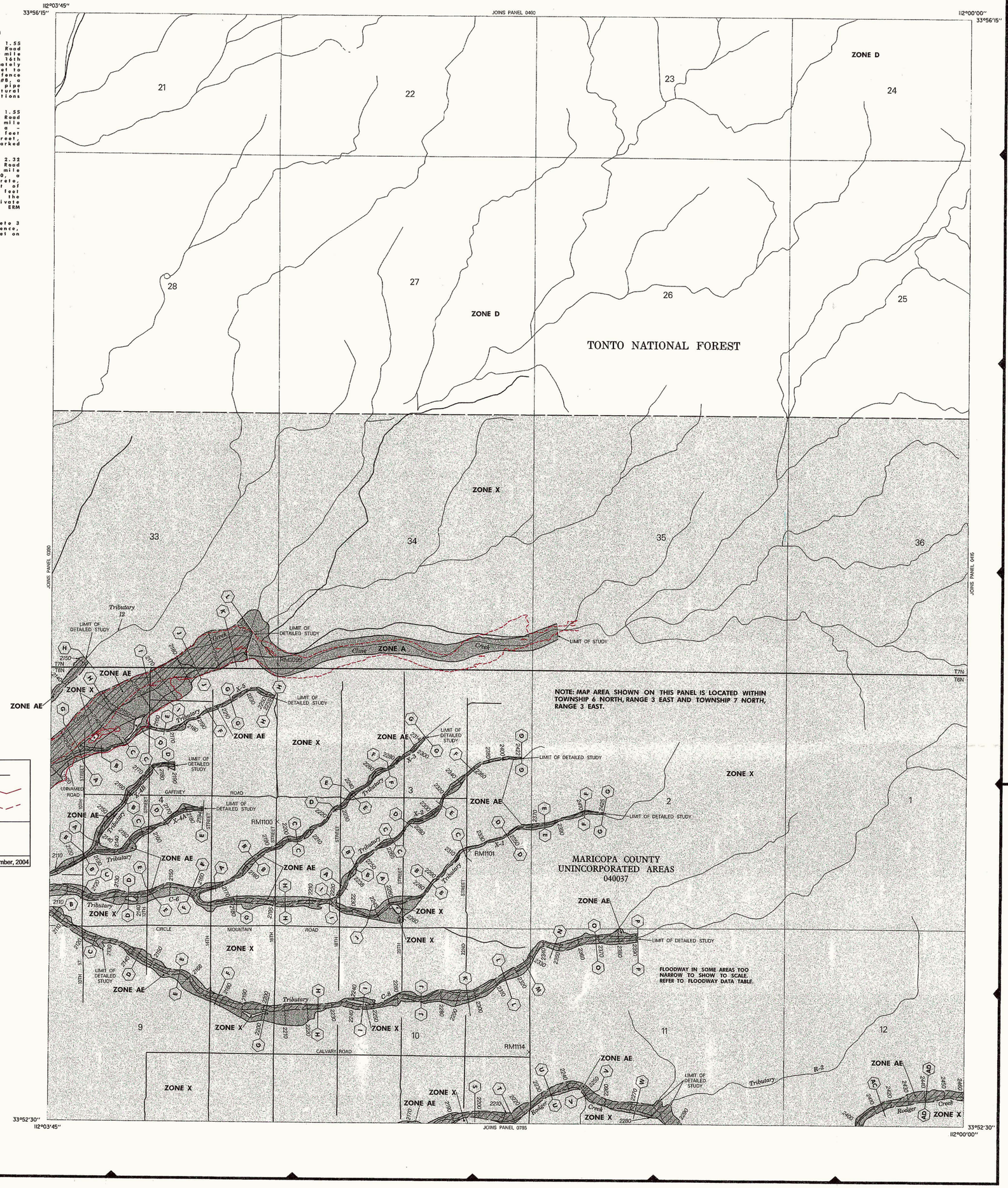
MAP NUMBER
04013C0390 F

MAP REVISED:
JULY 19, 2001

Federal Emergency Management Agency

ELEVATION REFERENCE MARKS

REFERENCE MARK	ELEVATION (FEET NGVD)	DESCRIPTION OF LOCATION
RM1099	2219.30	Beginning at Point C, thence 1.55 miles east on Circle Mountain Road to 16th Street, thence 1.00 mile north on 16th Street to where 16th Street ends, thence approximately 280 feet north of 16th Street to point on a 4-foot barbed wire fence running east and west; ERM #8; a GLO brass cap on 2-inch iron pipe at fence, 1.00 foot above natural ground, section corner of sections 33, 34, 3, and 4, 1922.
RM1100	2228.12	Beginning at Point C, thence 1.55 miles east on Circle Mountain Road to 16th Street, thence 0.40 mile north on 16th Street to ERM 9, a -inch rebar set in concrete 30 feet east of centerline of 16th Street, 6 feet west of power pole, marked ERM #9.
RM1101	2327.09	Beginning at Point C, thence 2.32 miles east on Circle Mountain Road to 22nd Street, thence 0.28 mile north on 22nd Street to ERM 10, a -inch rebar set in concrete, approximately 15 feet east of centerline of 22nd Street, 2 feet south of power pole and at the northeast corner of private driveway entrance, marked ERM #10.
RM1114	2329.27	A -inch rebar set in concrete 3 feet west of barbed wire fence, 1.05 miles east of 16th Street on Calvary Road.



LEGEND

Proposed 100-Year Floodplain Limit

Proposed 100-Year Floodway Limit

Floodplain Delineation Study of Cline Creek
Adobe Dam/Desert Hills ADMP

ANNOTATED FIRM PANEL

JE Fuller Hydrology & Geomorphology, Inc September, 2004

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 this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations and, therefore, may not precisely 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 utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

ERM elevations listed on this map were obtained under order developed to establish vertical control for determination of flood elevations and floodplain boundaries portrayed on this map. Users should be aware that these ERM elevations may have changed since the publication of this map. To obtain up-to-date elevation information on National Geodetic Survey (NGS) ERMs shown on this map, please contact the Information Services Branch of the NGS at (301) 713-3242, or visit their website at www.ngs.noaa.gov. Map users should seek verification of non-NGS ERM monument elevations when using these elevations for construction or floodplain management purposes.

Coastal BFE's shown on this map may apply only landward of 0.0' NGVD. Users of this FIRM 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 on this FIRM.

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 — Identified 1990 — Otherwise Protected Areas

Coastal barrier areas are normally located within or adjacent to Special Flood Hazard 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.

513 — Base Flood Elevation Line; Elevation in Feet. See Map Index for Elevation Datum.

D — D — Cross Section Line

(EL 987) — Base Flood Elevation in Feet Where Uniform Within Zone. See Map Index for Elevation Datum.

RM7 × — Elevation Reference Mark

• M2 — River Mile

97°07'30", 32°22'30" — Horizontal Coordinates Based on North American Datum of 1927 (NAD 27) Projection.

NOTES

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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, DECEMBER 3, 1993

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.

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APPROXIMATE SCALE IN FEET
1000 0 1000

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

MARICOPA COUNTY, ARIZONA AND INCORPORATED AREAS

PANEL 395 OF 4350
(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS: COMMUNITY	NUMBER	PANEL	SUFFIX
MARICOPA COUNTY, UNINCORPORATED AREAS	040037	0395	G

MAP NUMBER
04013C0395 G

MAP REVISED:
JULY 19, 2001

Federal Emergency Management Agency