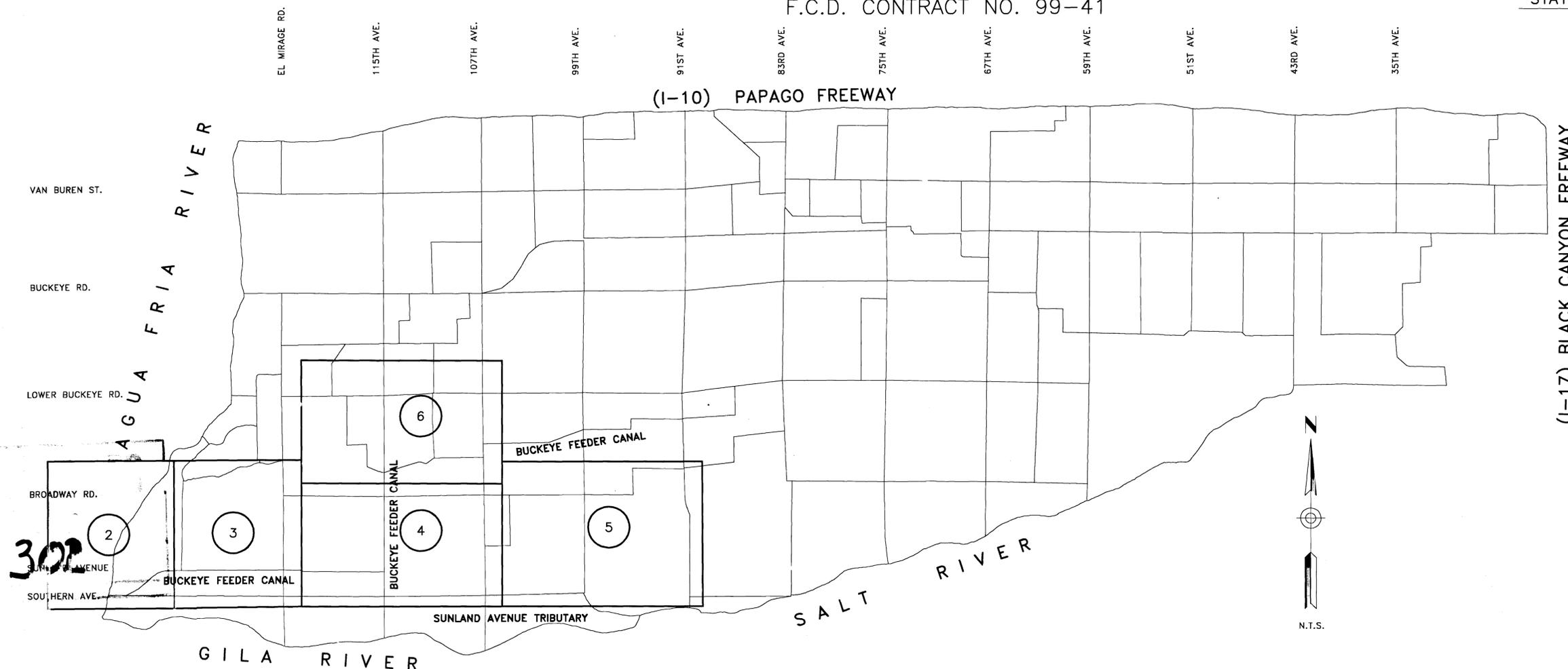


FLOOD CONTROL DISTRICT OF MARICOPA COUNTY



DURANGO ADMP FLOODPLAIN DELINEATION OF THE BUCKEYE FEEDER CANAL AND THE SUNLAND AVENUE TRIBUTARY TO THE BUCKEYE FEEDER CANAL

F.C.D. CONTRACT NO. 99-41



CROSS SECTION DATA

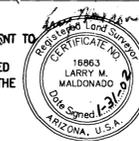
RM= RIVER MILE STATION
Q = 100-yr FLOW RATE IN CUBIC FEET PER SECOND (CFS)
FP= FLOODPLAIN WATER SURFACE ELEVATION

NOTES

1. ALL ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929
2. ALL HORIZONTAL COORDINATES USE ARIZONA STATE PLANE COORDINATES BASED ON THE 1927 NORTH AMERICAN DATUM
3. RIVER MILE STATIONING BASED UPON HYDRAULIC BASELINE AS SHOWN.
4. FLOODPLAIN LIMITS IN THIS STUDY ARE PLOTTED AT EACH HEC-RAS CROSS SECTION ON THE BASIS OF STARTING (Sta WS L&I) AND ENDING (Sta WS R) STATIONS UNLESS THERE IS INEFFECTIVE FLOW AREA OR A CONFLICT WITH TOPOGRAPHIC CONTOURS, IN WHICH CASE, THE CONTOURS TAKE PRECEDENCE.

STATEMENTS OF PROFESSIONAL REGISTRANTS

THE GROUND CONTROL SURVEY IS SUPPLEMENT TO MARYVALE ADMP AERIAL MAPPING PROJECT (FCD 93-33. VERTICAL CONTROL PERFORMED BY KAMINSKI-HUBBARD ENGINEERING, INC.) THE CURRENT GROUND CONTROL SURVEY WAS PREPARED UNDER MY DIRECT SUPERVISION:



THE HYDROLOGIC VALUES USED FOR THE FLOODPLAIN DELINEATION WERE PREPARED UNDER MY DIRECT SUPERVISION:

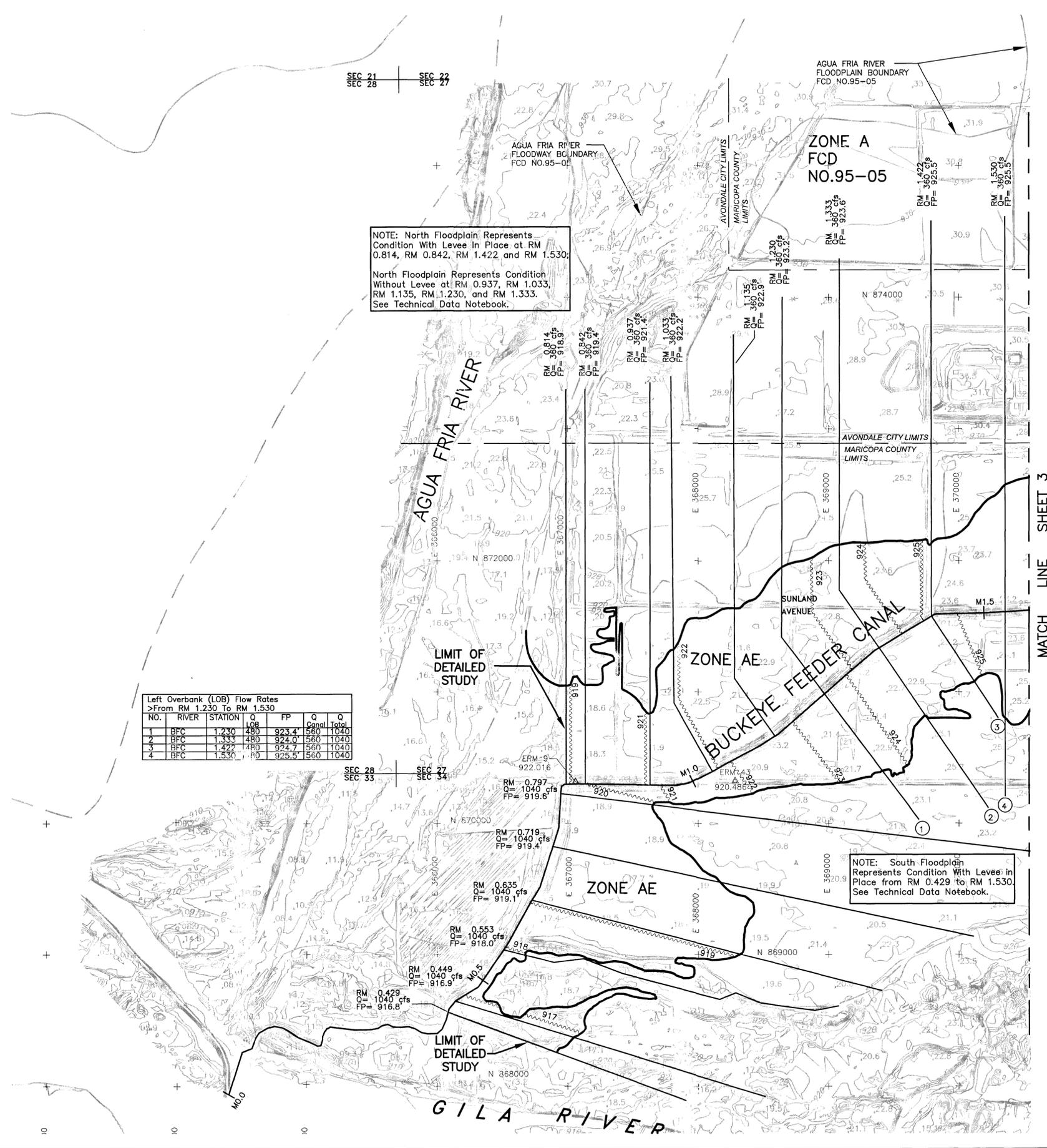


THE FLOODPLAIN DELINEATION WAS PREPARED UNDER MY DIRECT SUPERVISION:



FLOWN BY:
KENNEY AERIAL MAPPING INC.
FLIGHT DATE MARCH 28, 1994

PRIME CONSULTANT: DIBBLE & ASSOCIATES CONSULTING ENGINEERS			SUB CONSULTANT:		
DESIGN	BY JEP	DATE 9/20/01	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY		
DESIGN CHK.	FEB	9/20/01	RECOMMENDED BY:		
PLANS	JEP/BJ	9/20/01	APPROVED BY: DATE		
PLANS CHK.	FEB	9/20/01	DATE		
SUBMITTED BY:	DATE:		SHEET 1 OF 6		



NOTE: North Floodplain Represents Condition With Levee In Place at RM 0.814, RM 0.842, RM 1.422 and RM 1.530;
 North Floodplain Represents Condition Without Levee at RM 0.937, RM 1.033, RM 1.135, RM 1.230, and RM 1.333.
 See Technical Data Notebook.

NO.	RIVER	STATION	LOB	Q	FP	Q	Q
						Channel	Total
1	BFC	1.230	480	923.4	560	1040	
2	BFC	1.333	480	924.0	560	1040	
3	BFC	1.422	480	924.7	560	1040	
4	BFC	1.530	480	925.5	560	1040	

NOTE: South Floodplain Represents Condition With Levee in Place from RM 0.429 to RM 1.530. See Technical Data Notebook.

LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- FLOODWAY BOUNDARY
- HYDRAULIC BASE LINE WITH RIVER MILE
- EROSION SETBACK (WHEN APPLICABLE)
- CROSS SECTION
- ELEVATION REFERENCE MARK ERM XXX
- BASE FLOOD ELEVATIONS
- ZONE DESIGNATIONS ZONE AE
- CORPORATE LIMITS Corporate Limits
- COUNTY, PARISH, STATE OR INTERNATIONAL BOUNDARY County Boundary

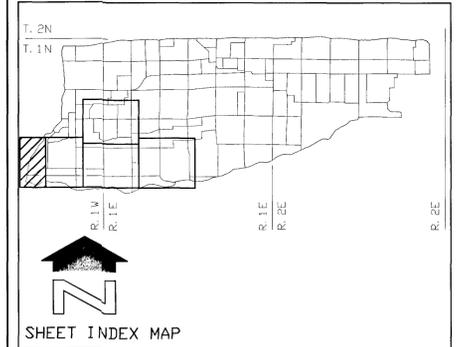
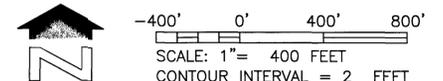
ELEVATION REFERENCE MARKS

NOTE: ALL ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929. CONVERSION FACTOR 1988 NAVD= 2.14' + 1929 NGVD

I.D. NUMBER	ELEVATION (FT)	DESCRIPTION/LOCATION
9	922.016	BCF w/Concrete @ Gauging Station, Northside of BFC, +/-3800' West of Dysart Road at Southern Ave
43	920.486	Iron Pipe in Pothole in Center of Southern Ave. Extended +/-1/2 West of Dysart Road

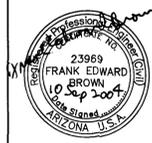
NOTES

- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS NOTED OTHERWISE.



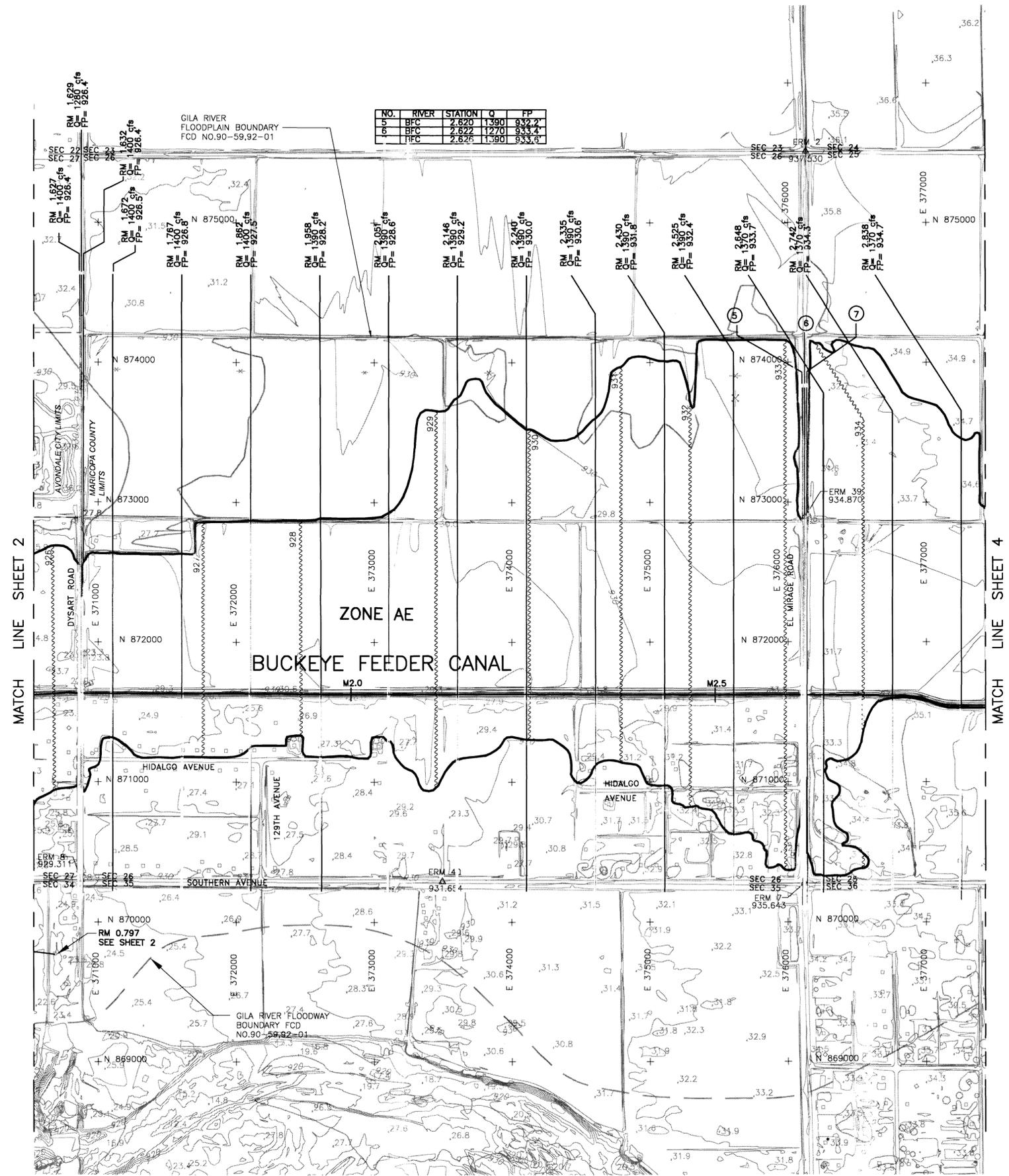
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

DURANGO ADMP FLOODPLAIN DELINEATION OF THE BFC AND THE SUNLAND AVE TRIBUTARY TO THE BFC
 F.C.D. CONTRACT NO. 99-41



DIBBLE & ASSOCIATES
 CONSULTING ENGINEERS

	BY	DATE
DESIGN	JEP	08/24/04
DESIGN CHK.	FFB	08/24/04
PLANS	JEP	08/24/04
PLANS CHK.	FFB	08/24/04



NO.	RIVER	STATION	Q	FP
5	BFC	2,820	1,390	932.2
6	BFC	2,820	1,270	934.4
7	BFC	2,826	1,300	933.6

LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- FLOODWAY BOUNDARY
- HYDRAULIC BASE LINE WITH RIVER MILE
- EROSION SETBACK (WHEN APPLICABLE)
- CROSS SECTION
- ELEVATION REFERENCE MARK
- BASE FLOOD ELEVATIONS
- ZONE DESIGNATIONS
- CORPORATE LIMITS
- COUNTY, PARISH, STATE OR INTERNATIONAL BOUNDARY

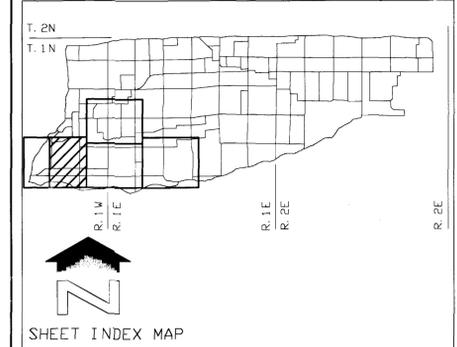
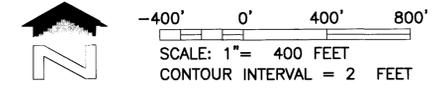
ELEVATION REFERENCE MARKS

NOTE: ALL ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929. CONVERSION FACTOR 1988 NAVD= 2.15' + 1929 NGVD

I.D. NUMBER	ELEVATION (FT)	DESCRIPTION/LOCATION
2	937.530	BCHH @ El Mirage Road and Broadway Road
7	935.643	BCHH @ El Mirage Road and Southern Avenue
8	929.311	BCHH @ Dysart Road and Southern Avenue
39	934.870	BCHH @ El Mirage Road, +/- 1/2 Mile North of Southern Ave
40	931.654	BCHH @ Southern Ave, +/- 1/2 Mile West of El Mirage Road

NOTES

- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS NOTED OTHERWISE.



NO.	REVISION	BY	DATE
2			

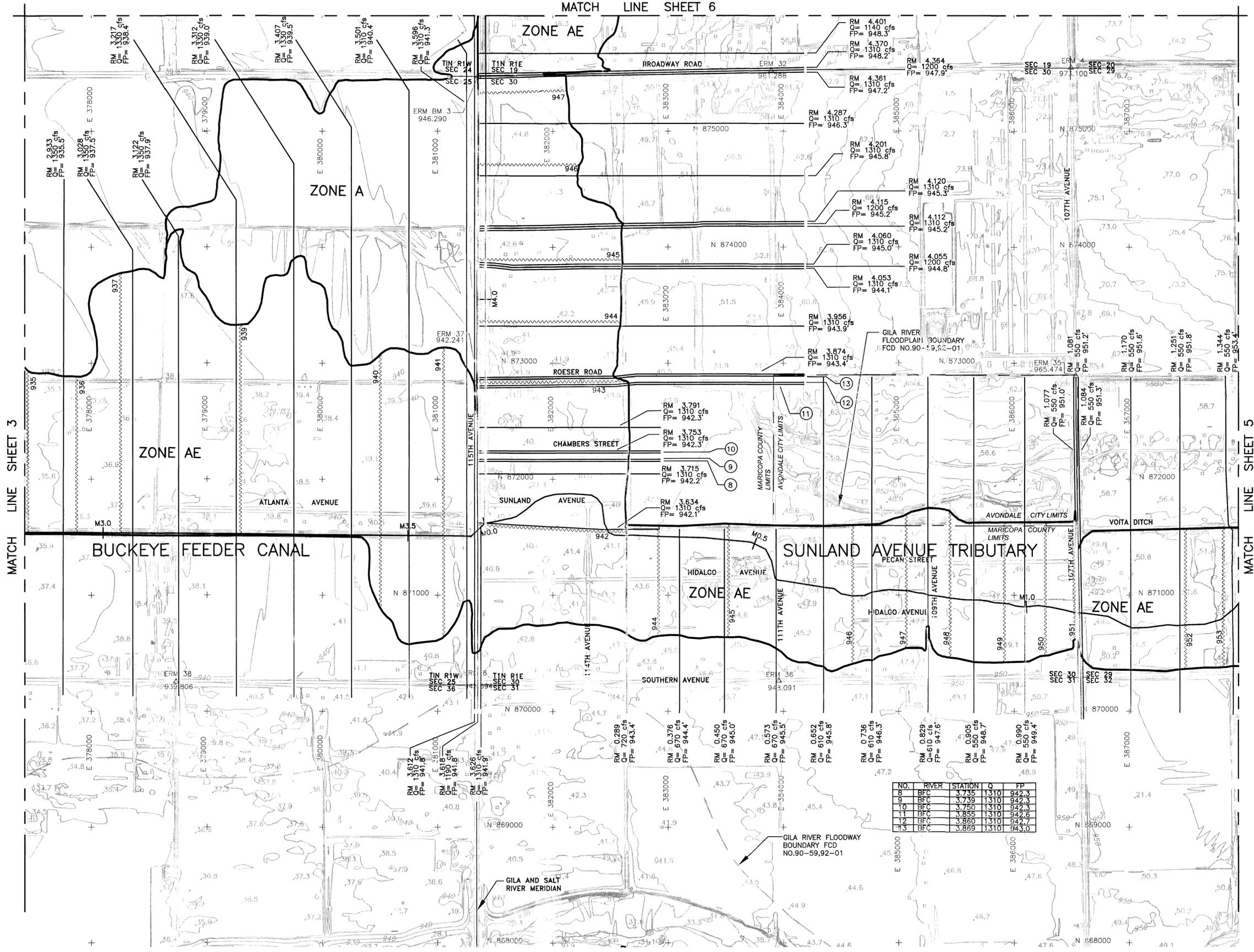
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

DURANGO ADMP FLOODPLAIN DELINEATION OF THE BFC AND THE SUNLAND AVE TRIBUTARY TO THE BFC
 F.C.D. CONTRACT NO. 99-41



	BY	DATE
DESIGN	JEP	9/20/01
DESIGN CHK.	FEB	9/20/01
PLANS	JEP	9/20/01
PLANS CHK.	FEB	9/20/01

MATCH LINE SHEET 6



LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- FLOODWAY BOUNDARY
- HYDRAULIC BASE LINE WITH RIVER MILE
- EROSION SETBACK (WHEN APPLICABLE)
- CROSS SECTION
- ELEVATION REFERENCE MARK
- BASE FLOOD ELEVATIONS
- ZONE DESIGNATIONS
- CORPORATE LIMITS
- COUNTY, PARISH, STATE OR INTERNATIONAL BOUNDARY

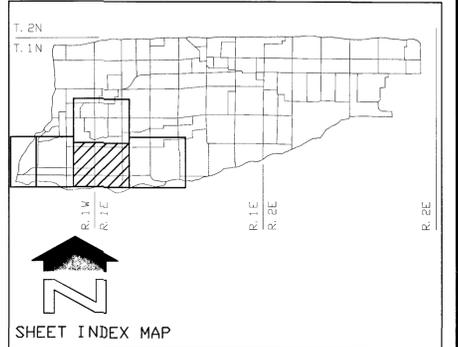
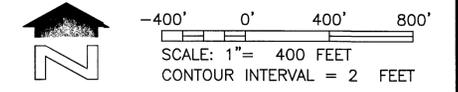
ELEVATION REFERENCE MARKS

NOTE: ALL ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929. CONVERSION FACTOR 1988 NAVD = 2.15' + 1929 NGVD

I.D. NUMBER	ELEVATION (FT)	DESCRIPTION/LOCATION
6	943.694	BCHH @ 115th Ave and Southern Avenue
3	946.290	BCHH @ 115th Ave and Broadway Road
4	973.100	BCHH @ 107th Ave and Broadway Road
35	965.474	BCF w/Pavement in Center of 107th Ave, +/- 1/2 Mile South of Broadway Road
36	948.091	BCHH @ 111th Ave and Southern Ave
37	942.241	BCHH @ 115th Ave and Roeser Road
38	939.806	BCHH @ 119th Ave and Southern Avenue
32	961.288	BCHH @ Broadway Road, +/- 1/2 Mile East of 115th Ave

NOTES

- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS NOTED OTHERWISE.



NO.	RIVER	STATION	Q	FP
9	BFC	3,735	1310	942.3
10	BFC	3,738	1310	942.3
11	BFC	3,750	1310	942.3
12	BFC	3,855	1310	942.6
13	BFC	3,869	1310	943.0

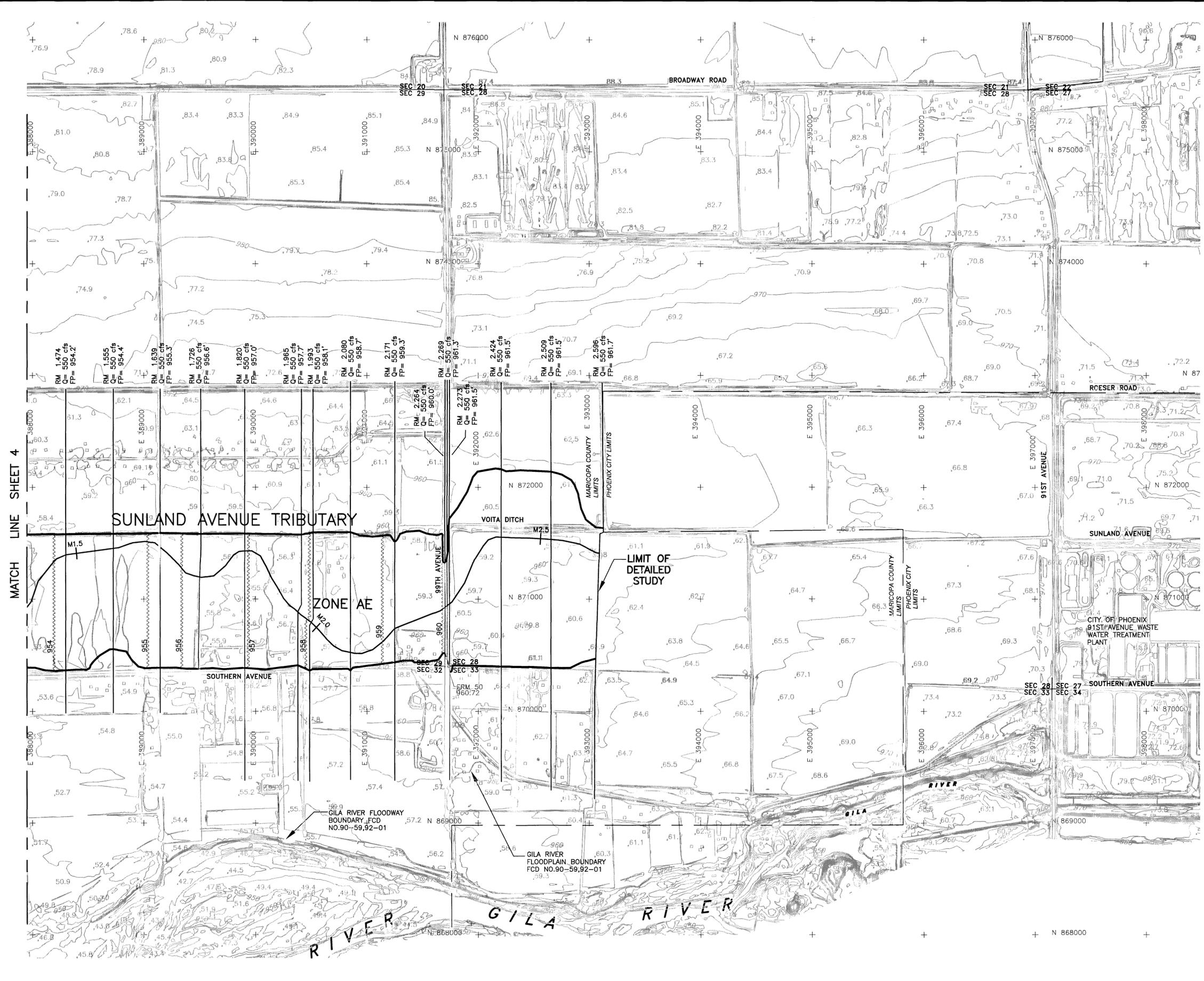
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

DURANGO ADMP FLOODPLAIN DELINEATION OF THE BFC AND THE SUNLAND AVE TRIBUTARY TO THE BFC
F.C.D. CONTRACT NO. 99-41



DIBBLE & ASSOCIATES
CONSULTING ENGINEERS

NO.	REVISION	BY	DATE
DESIGN	JEP	JEP	08/24/04
DESIGN CHK.	FEB	FEB	08/24/04
PLANS	JEP	JEP	08/24/04
PLANS CHK.	FEB	FEB	08/24/04



LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- FLOODWAY BOUNDARY
- HYDRAULIC BASE LINE WITH RIVER MILE
- EROSION SETBACK (WHEN APPLICABLE)
- CROSS SECTION
- ELEVATION REFERENCE MARK
- BASE FLOOD ELEVATIONS
- ZONE DESIGNATIONS
- CORPORATE LIMITS
- COUNTY, PARISH, STATE OR INTERNATIONAL BOUNDARY

ELEVATION REFERENCE MARKS

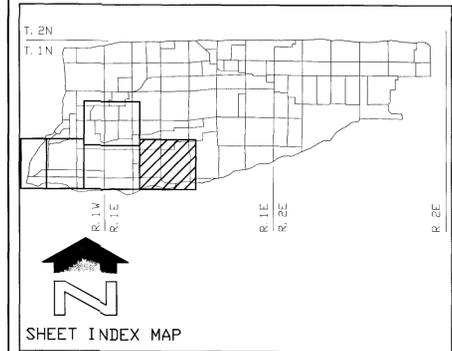
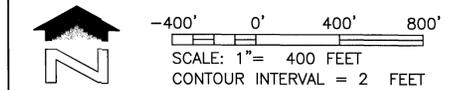
NOTE: ALL ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929. CONVERSION FACTOR 1988 NAVD = 2.15' + 1929 NGVD

I.D. NUMBER	ELEVATION (FT)	DESCRIPTION/LOCATION
50	960.72	Maricopa County BCHH @ Southern Avenue and 99th Avenue, SE Corner of Sec 29, T1N R1E

NOTE: ERM DATA ON THIS SHEET PROVIDED BY FCD CONTRACT NO. 90-59 & 92-01.

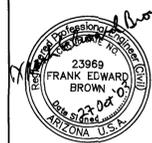
NOTES

- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS NOTED OTHERWISE.



FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

DURANGO ADMP FLOODPLAIN DELINEATION OF THE BFC AND THE SUNLAND AVE TRIBUTARY TO THE BFC F.C.D. CONTRACT NO. 99-41



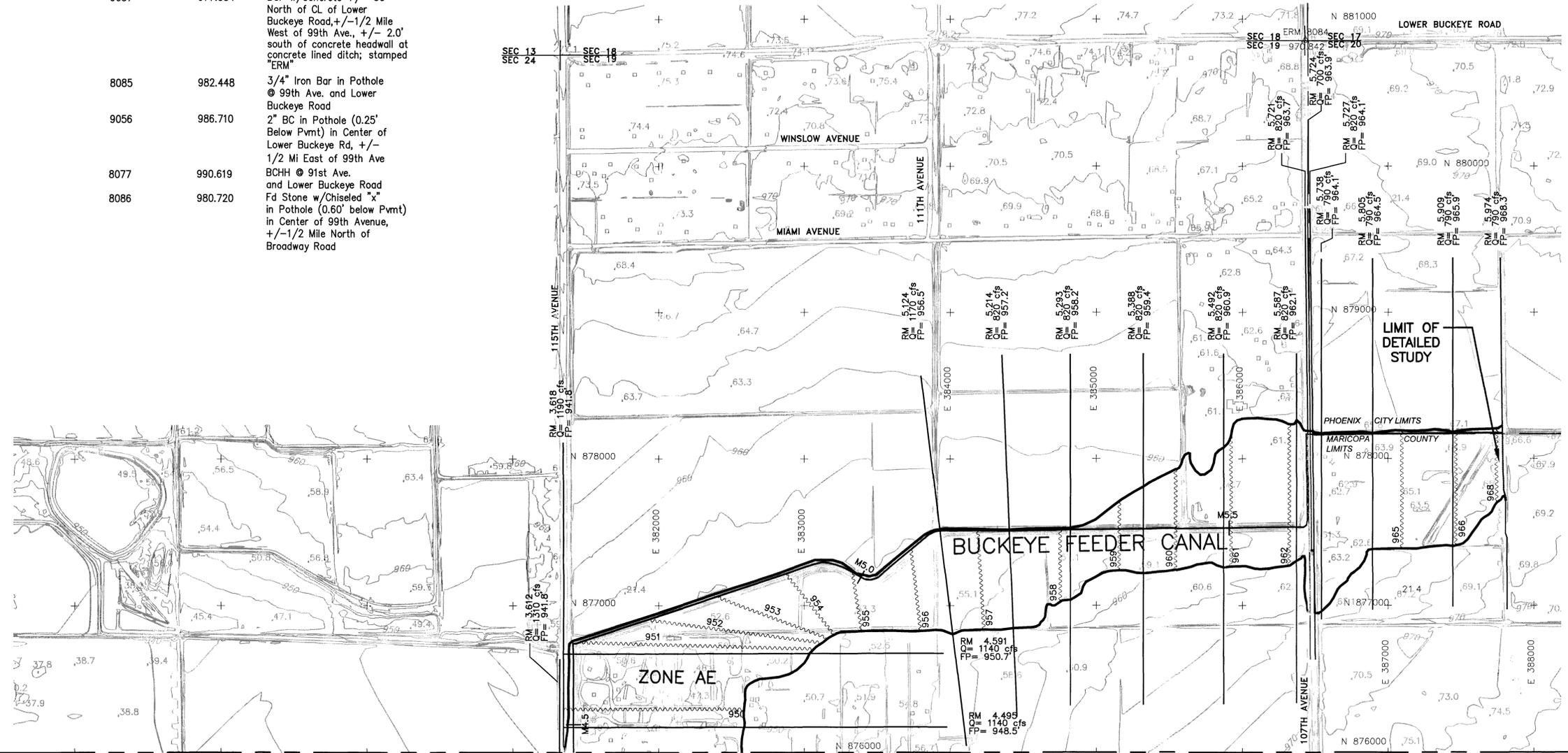
DIBBLE & ASSOCIATES
CONSULTING ENGINEERS

	BY	DATE
DESIGN	JEP	10/15/03
DESIGN CHK.	FEB	10/15/03
PLANS	JEP	10/15/03
PLANS CHK.	FEB	10/15/03

ADDITIONAL ELEVATION REFERENCE MARKS

NOTE: ALL ELEVATIONS ARE BASED ON NATIONAL
GEODETIC VERTICAL DATUM OF 1929.
CONVERSION FACTOR 1988 NAVD= 2.15' +
1929 NGVD

I.D. NUMBER	ELEVATION (FT)	DESCRIPTION/LOCATION
9057	977.554	BCF w/Concrete +/- 50' North of CL of Lower Buckeye Road, +/- 1/2 Mile West of 99th Ave., +/- 2.0' south of concrete headwall at concrete lined ditch; stamped "ERM"
8085	982.448	3/4" Iron Bar in Pothole @ 99th Ave. and Lower Buckeye Road
9056	986.710	2" BC in Pothole (0.25' Below Pmnt) in Center of Lower Buckeye Rd, +/- 1/2 Mi East of 99th Ave
8077	990.619	BCHH @ 91st Ave. and Lower Buckeye Road
8086	980.720	Fd Stone w/Chiseled "x" in Pothole (0.60' below Pmnt) in Center of 99th Avenue, +/- 1/2 Mile North of Broadway Road



MATCH LINE SHEET 4

LEGEND

100-YR FLOODPLAIN BOUNDARY	
FLOODWAY BOUNDARY	
HYDRAULIC BASE LINE WITH RIVER MILE	M12.0 M13.0
EROSION SETBACK (WHEN APPLICABLE)	
CROSS SECTION	RM = 0.10 Q = CFS FP = 1888.74
ELEVATION REFERENCE MARK	ERM XXX
BASE FLOOD ELEVATIONS	1221
ZONE DESIGNATIONS	ZONE AE
CORPORATE LIMITS	Corporate Limits
COUNTY, PARISH, STATE OR INTERNATIONAL BOUNDARY	County Boundary

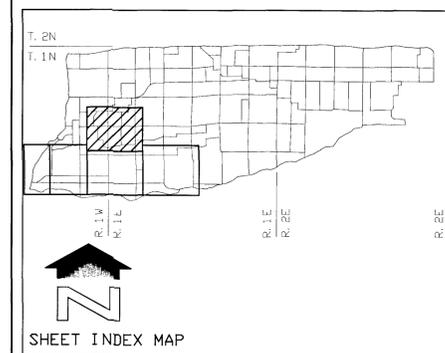
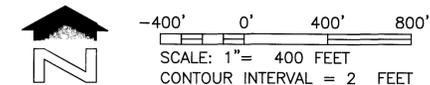
ELEVATION REFERENCE MARKS

NOTE: ALL ELEVATIONS ARE BASED ON NATIONAL
GEODETIC VERTICAL DATUM OF 1929.
CONVERSION FACTOR 1988 NAVD= 2.15' +
1929 NGVD

I.D. NUMBER	ELEVATION (FT)	DESCRIPTION/LOCATION
8084	970.842	Fd. 3/4" Iron Pipe in Pothole @ Intersection of 107th Ave and Lower Buckeye Road

NOTES

- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS NOTED OTHERWISE.



NO.	REVISION	BY	DATE

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

DURANGO ADMP FLOODPLAIN
DELINEATION OF THE BFC
AND THE SUNLAND AVE
TRIBUTARY TO THE BFC
F.C.D. CONTRACT NO. 99-41



DIBBLE & ASSOCIATES
CONSULTING ENGINEERS

	BY	DATE
DESIGN	JEP	10/15/03
DESIGN CHK.	FEB	10/15/03
PLANS	JEP	10/15/03
PLANS CHK.	FEB	10/15/03