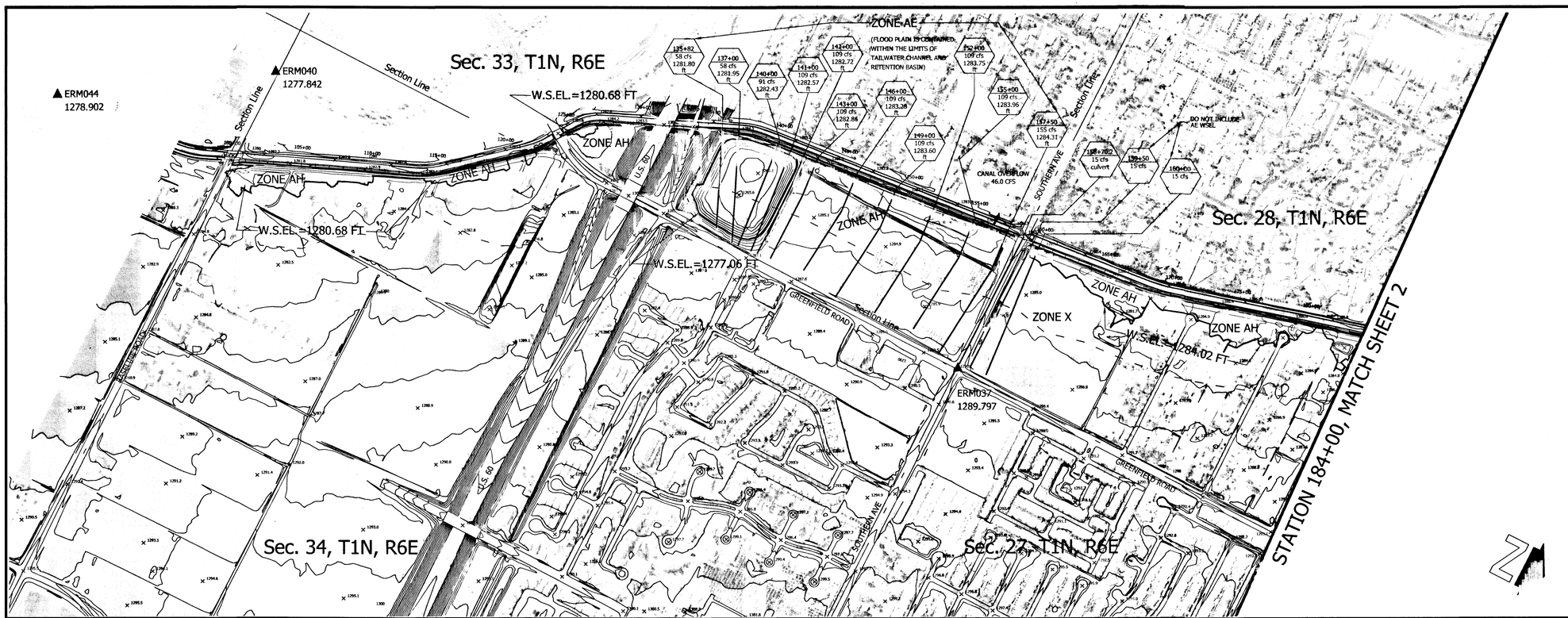
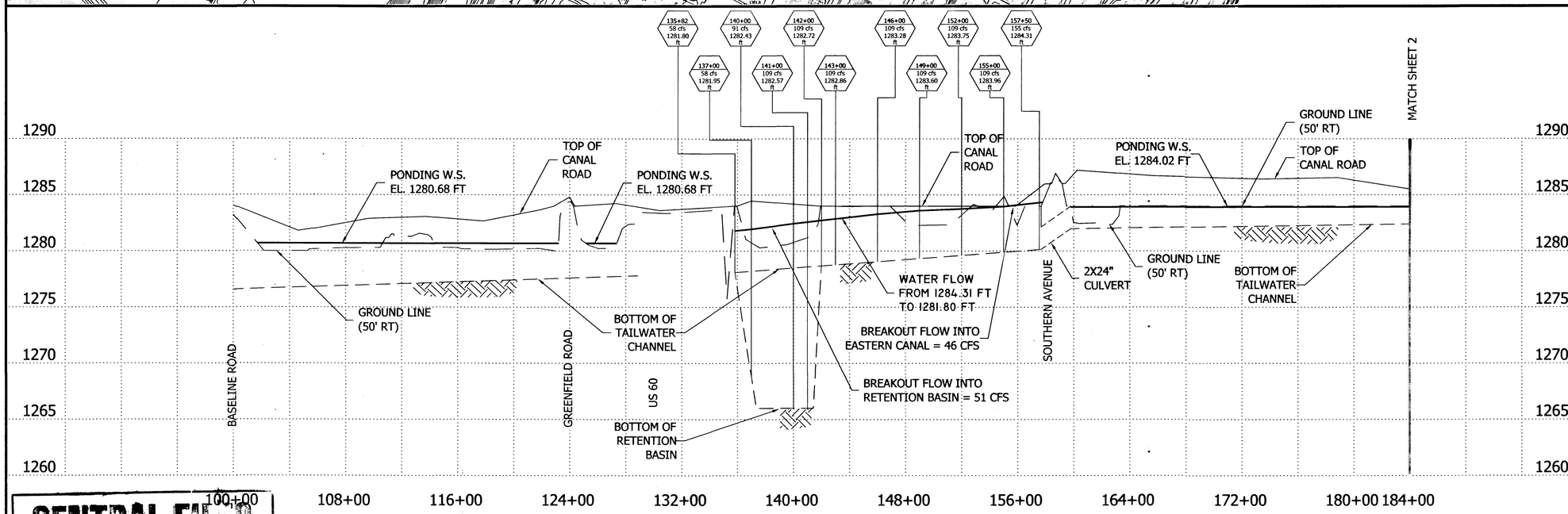




LEGEND

100-YR FLOODPLAIN BOUNDARY	
OLD 100-YR FLOODPLAIN BOUNDARY	
HYDRAULIC BASE LINE WITH RIVER STATION	125+00 130+00
CROSS SECTION	132+00 100.00 Line 11 Pt. 9 / 132+00 100.00 Line 11 Pt. 8
ELEVATION REFERENCE MARK	ERM042
BASE FLOOD ELEVATIONS	1221
ZONE DESIGNATIONS	ZONE AE
SECTION LINES (APPROXIMATE)	Section Line

ELEVATION REFERENCE MARKS

NOTE: ALL ELEVATIONS ARE BASED ON NGVD OF 1929.
CONVERSION FACTOR 1929 NGVD TO 1988 NAVD=+ 1.752 FT
DATUM CONVERSION FACTOR METRIC SYSTEM TO IMPERIAL SYSTEM, 0.3048 M = 1 FT.
HORIZONTAL CONTROL BASED ON 1983 NAD.

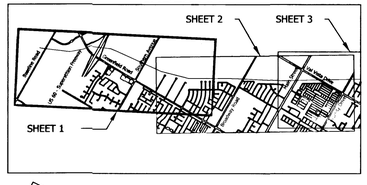
I.D. NUMBER	ELEVATION (FT)	DESCRIPTION/LOCATION
ERM037	1289.797	CITY OF MESA BRASS CAP IN HANDHOLE (0.49' BELOW RIM) AT INTERSECTION OF SOUTHERN AVENUE AND GREENFIELD ROAD. N: 870,852.388 E: 754,980.869
ERM040	1277.842	CITY OF MESA BRASS CAP IN HANDHOLE (0.49' BELOW RIM) AT INTERSECTION OF BASELINE ROAD AND EAST VALLEY AUTO PARK, EAST OF GREENFIELD ROAD. N: 865,554.298 E: 755,328.570
ERM044	1278.902	SET 1/2" REBAR FLUSH W/GROUND ±1300' SOUTH OF BASELINE ROAD, ±25' WEST OF EAST EDGE EASTERN CANAL, ±5' WEST OF CONCRETE DITCH, ±5' NORTH OF CONCRETE DITCH. N: 864,244.045 E: 756,181.932

NOTES

1 - THE HYDRAULIC BASE LINE IS SET ALONG TOP OF CANAL ROAD. CROSS SECTION STATION 10,000 IS SET AT THE HYDRAULIC BASE LINE, UNLESS NOTED OTHERWISE.

2 - THE GROUND LINE IS SET AT 50 FT. FROM THE HYDRAULIC BASELINE. DEPTHS MAY BE GREATER OR LESS THAN THE ONES REPRESENTED ON THE PROFILE.

INDEX MAP



400' 0' 400' 800'

SCALE: 1"= 400 FEET
CONTOUR INTERVAL = 2 FEET
FLIGHT DATE: 03/20/96

NO.	REVISION	BY	DATE
2			
1	REVISION 1	FB	July, 2002

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

EASTERN CANAL NORTH FLOOD DELINEATION STUDY F.C.D. CONTRACT NO. 98-36

WORKMAP #1

Registered Professional Engineer (Civil) CERTIFICATE NO. 17756 SHI-EN SHIAU Date Signed 8-21-02 ARIZONA, U.S.A.

PRIMATECH
ENGINEERS & CONSULTANTS

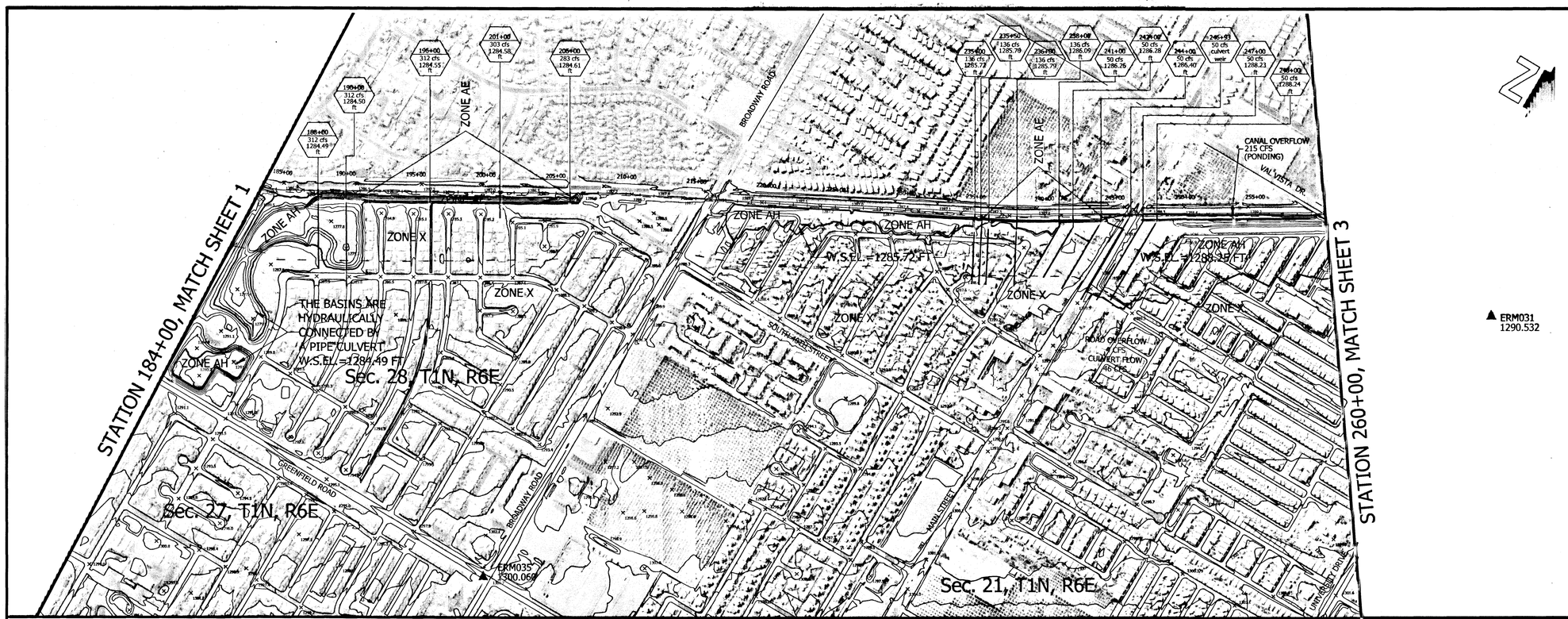
	BY	DATE
DESIGN	FB	OCT., 2001
DESIGN CHK.	WVH	OCT., 2001
PLANS	-	-
PLANS CHK.	-	-

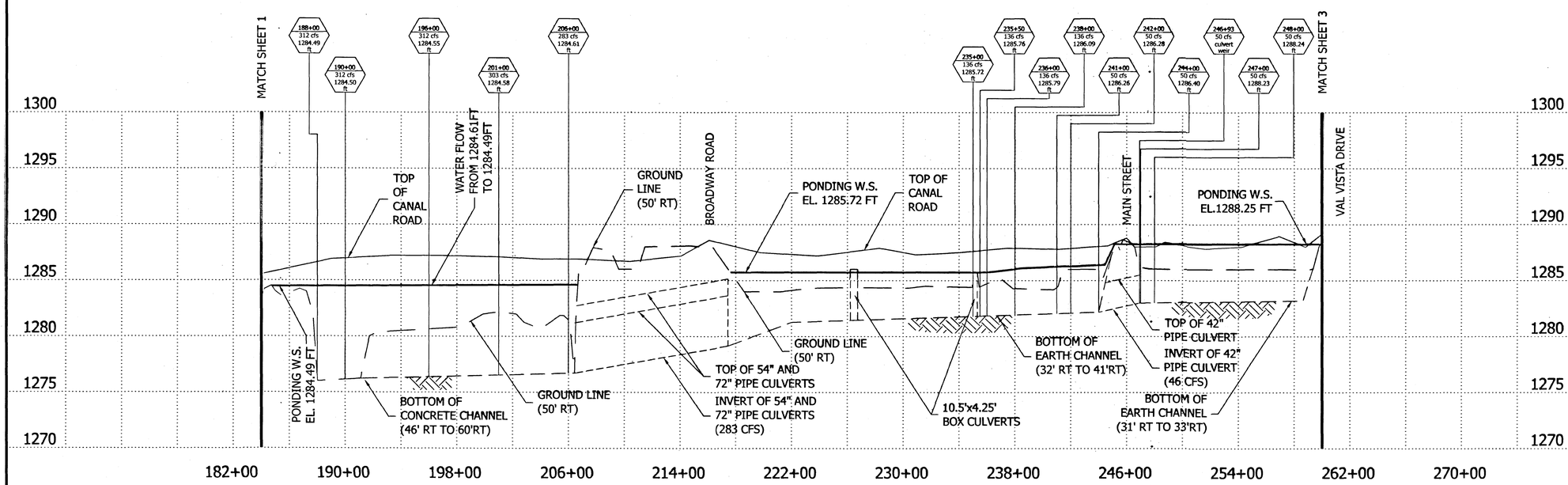
EXHIBIT 10 SHEET 1 OF 4

CENTRAL FILES
DRAWER # 311

GROUP 263
EASTERN CANAL NORTH FDS
ENGINEER: PRIMATECH
YEAR STUDY: 2002
ID # 98-36

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS FOR 1"= 400' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS. AERIAL MAPPING PROVIDED BY AERIAL MAPPING COMPANY, INC. GROUND CONTROL SURVEY DATA PROVIDED BY PROJECT ENGINEERING CONSULTANTS





LEGEND

100-YR FLOODPLAIN BOUNDARY	
OLD 100-YR FLOODPLAIN BOUNDARY	
HYDRAULIC BASE LINE WITH RIVER STATION	125+00 130+00
CROSS SECTION	
ELEVATION REFERENCE MARK	ERM042
BASE FLOOD ELEVATIONS	1221
ZONE DESIGNATIONS	ZONE AE
SECTION LINES (APPROXIMATE)	Section Line

ELEVATION REFERENCE MARKS

NOTE: ALL ELEVATIONS ARE BASED ON NGVD OF 1929.
CONVERSION FACTOR 1929 NGVD TO 1988 NAVD=+ 1.752 FT
DATUM CONVERSION FACTOR METRIC SYSTEM TO IMPERIAL SYSTEM, 0.3048 M = 1 FT.
HORIZONTAL CONTROL BASED ON 1983 NAD.

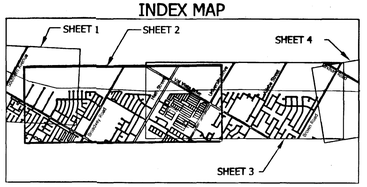
I.D. NUMBER	ELEVATION (FT)	DESCRIPTION/LOCATION
ERM031	1290.532	CITY OF MESA BRASS CAP IN HANDHOLE (0.58' BELOW RIM) AT INTERSECTION OF UNIVERSITY DRIVE AND VAL VISTA DRIVE. N: 881,382.552 E: 749,739.987
ERM035	1300.060	CITY OF MESA BRASS CAP IN HANDHOLE (0.78' BELOW RIM) AT INTERSECTION OF BROADWAY AVENUE AND GREENFIELD ROAD. N: 876,128.848 E: 755,002.612

NOTES

1 - THE HYDRAULIC BASE LINE IS SET ALONG TOP OF CANAL ROAD. CROSS SECTION STATION 10,000 IS SET AT THE HYDRAULIC BASE LINE, UNLESS NOTED OTHERWISE.

2 - THE GROUND LINE IS SET AT 50 FT. FROM THE HYDRAULIC BASELINE. DEPTHS MAY BE GREATER OR LESS THAN THE ONES REPRESENTED ON THE PROFILE.

INDEX MAP



400' 0' 400' 800'

SCALE: 1"= 400 FEET
CONTOUR INTERVAL = 2 FEET
FLIGHT DATE: 03/20/96

NO.	REVISION	BY	DATE
2			
1	REVISION 1	FB	July, 2002

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

EASTERN CANAL NORTH FLOOD DELINEATION STUDY F.C.D. CONTRACT NO. 98-36

WORKMAP #2

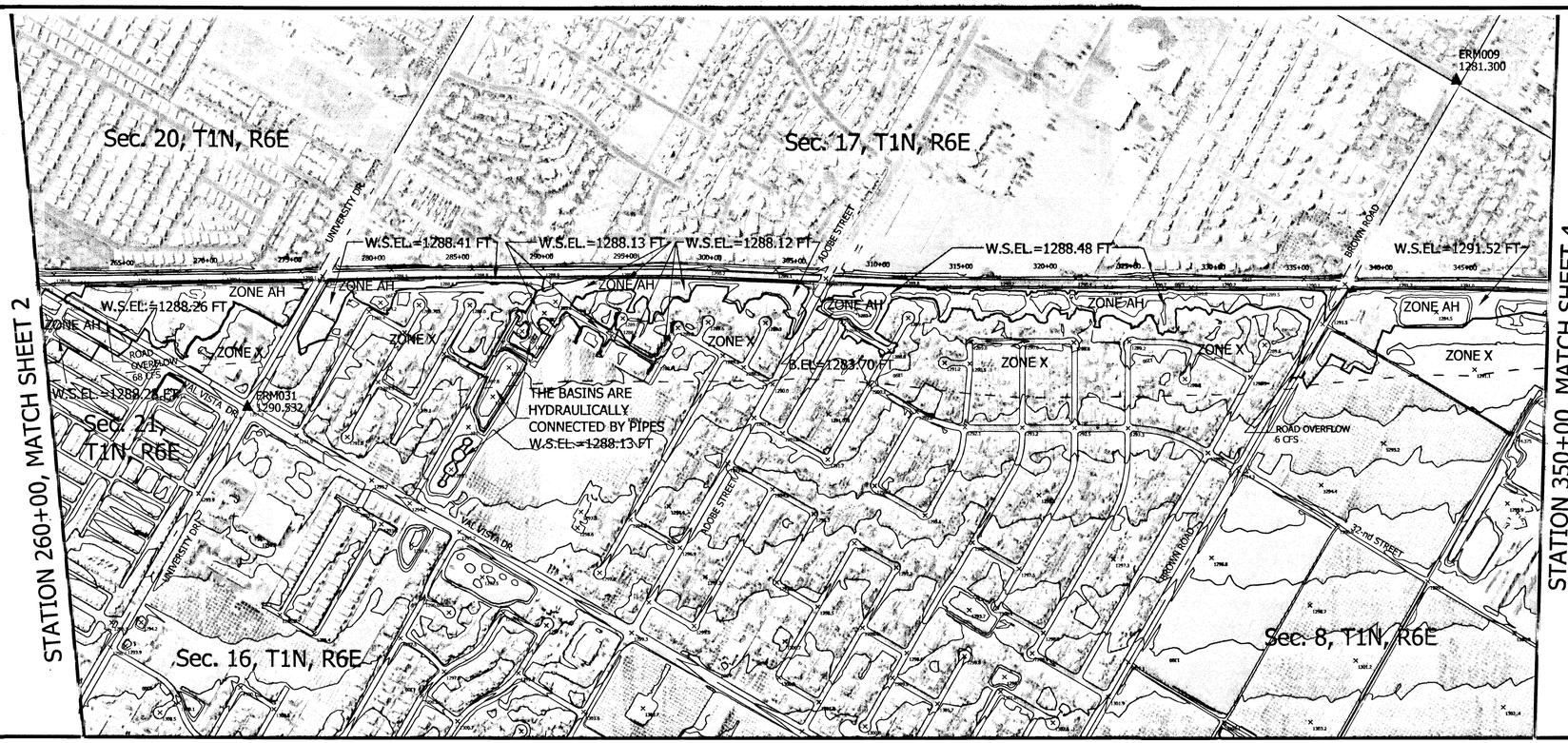
Registered Professional Engineer CERTIFICATE NO. 17756 SHI-EN SHIAU Date Signed 11-1-02 ARIZONA U.S.A.

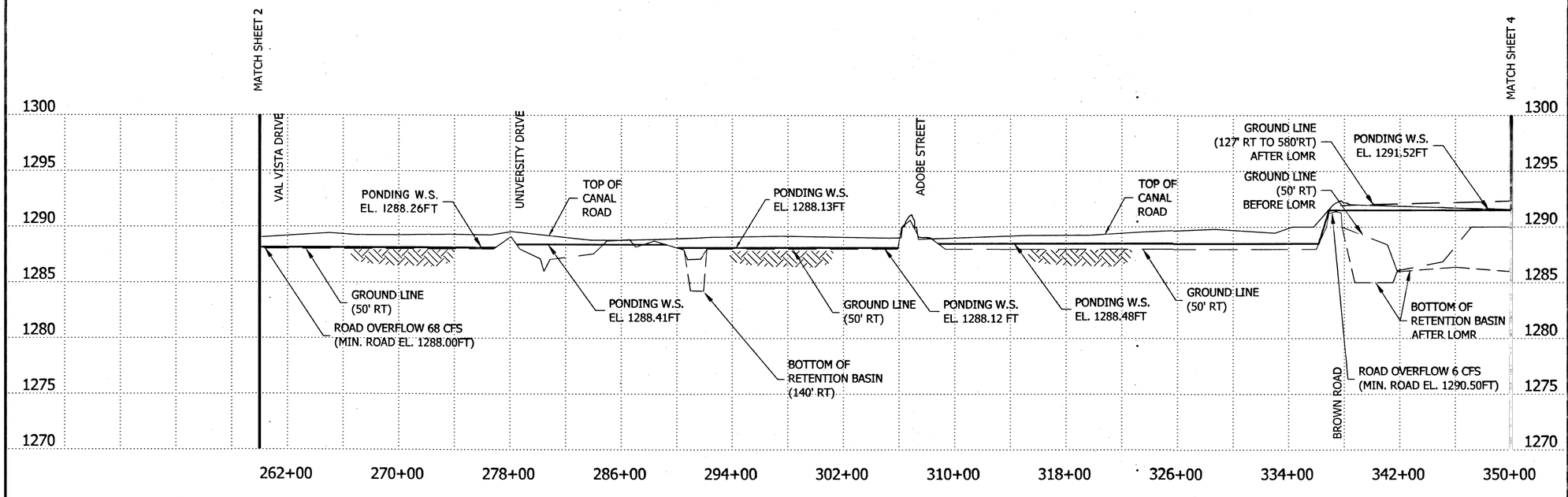
PRIMATECH
ENGINEERS & CONSULTANTS

	BY	DATE
DESIGN	FB	OCT., 2001
DESIGN CHK.	WVH	OCT., 2001
PLANS	-	-
PLANS CHK.	-	-

EXHIBIT 11 SHEET 2 OF 4

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS FOR 1"= 400' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS. AERIAL MAPPING PROVIDED BY AERIAL MAPPING COMPANY, INC. GROUND CONTROL SURVEY DATA PROVIDED BY PROJECT ENGINEERING CONSULTANTS





LEGEND

100-YR FLOODPLAIN BOUNDARY	
OLD 100-YR FLOODPLAIN BOUNDARY	
HYDRAULIC BASE LINE WITH RIVER STATION	335+00 340+00
CROSS SECTION	
ELEVATION REFERENCE MARK	ERM042
BASE FLOOD ELEVATIONS	1221
ZONE DESIGNATIONS	ZONE AE
SECTION LINES (APPROXIMATE)	Section Line

ELEVATION REFERENCE MARKS

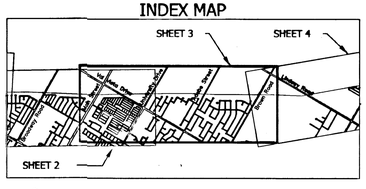
NOTE: ALL ELEVATIONS ARE BASED ON NGVD OF 1929.
CONVERSION FACTOR 1929 NGVD TO 1988 NAVD=+ 1.752 FT
DATUM CONVERSION FACTOR METRIC SYSTEM TO IMPERIAL SYSTEM, 0.3048 M = 1 FT.
HORIZONTAL CONTROL BASED ON 1983 NAD.

I.D. NUMBER	ELEVATION (FT)	DESCRIPTION/LOCATION
ERM009	1281.300	CITY OF MESA BRASS CAP IN HANDHOLE (0.90' BELOW RIM) AT INTERSECTION OF BROWN ROAD AND LINDSAY ROAD. N: 886,648.012 E: 744,461.693
ERM031	1290.532	CITY OF MESA BRASS CAP IN HANDHOLE (0.58' BELOW RIM) AT INTERSECTION OF UNIVERSITY DRIVE AND VAL VISTA DRIVE. N: 881,382.552 E: 749,739.987

NOTES

1 - THE HYDRAULIC BASE LINE IS SET ALONG TOP OF CANAL ROAD. CROSS SECTION STATION 10,000 IS SET AT THE HYDRAULIC BASE LINE, UNLESS NOTED OTHERWISE.
2 - THE GROUND LINE IS SET AT 50 FT. FROM THE HYDRAULIC BASELINE. DEPTHS MAY BE GREATER OR LESS THAN THE ONES REPRESENTED ON THE PROFILE.
3 - THE MESA NORTHGROVE LOMR REFERRED TO IN THE PROFILE IS REGISTERED AS CASE NUMBER 99-09-238P, FROM 1/26/1999.

INDEX MAP



400' 0' 400' 800'
SCALE: 1"= 400 FEET
CONTOUR INTERVAL = 2 FEET
FLIGHT DATE: 03/20/96

NO.	REVISION	BY	DATE
2			
1	REVISION 1	FB	July, 2002

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

EASTERN CANAL NORTH FLOOD DELINEATION STUDY
F.C.D. CONTRACT NO. 98-36
WORKMAP #3

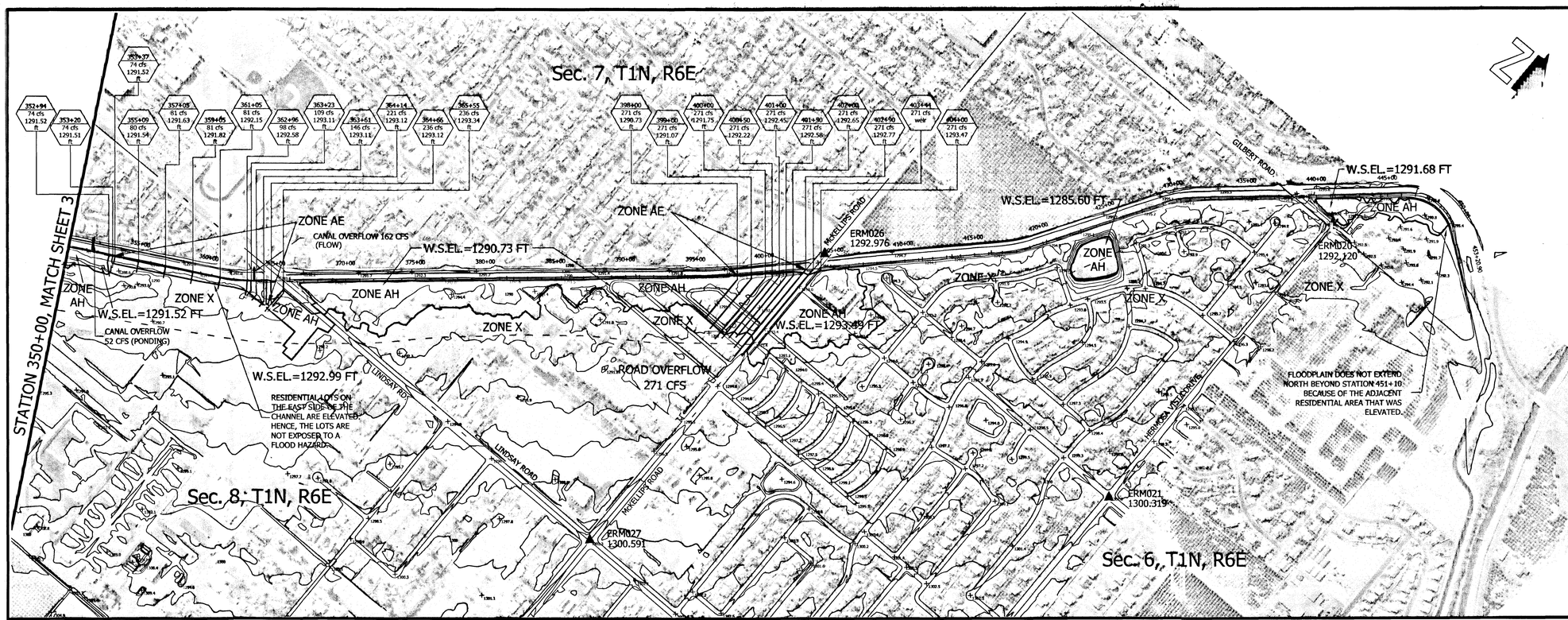
Registered Professional Engineer (Civil) CERTIFICATE NO. 17756 SHI-EN SHIAU Date Signed 8-21-02 ARIZONA U.S.A.

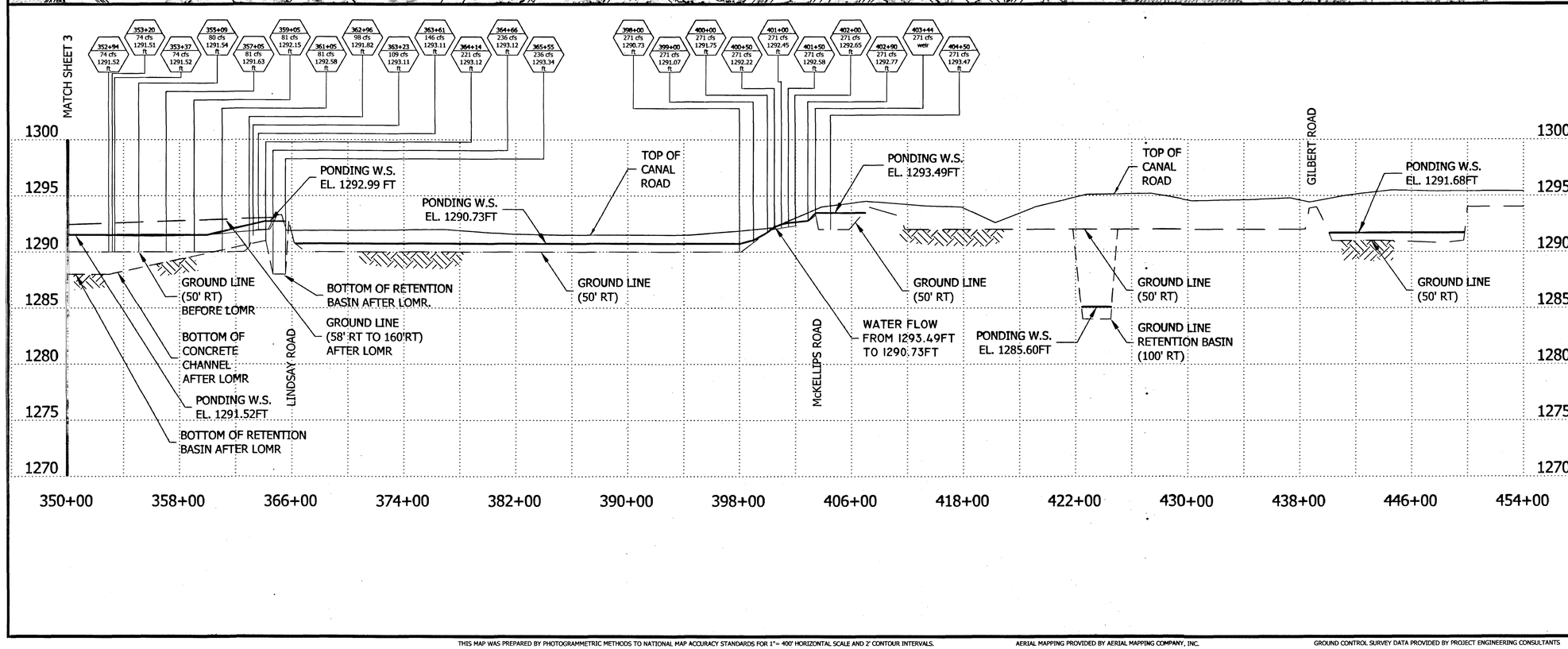
PRIMATECH
ENGINEERS & CONSULTANTS

	BY	DATE
DESIGN	FB	OCT., 2001
DESIGN CHK.	WVH	OCT., 2001
PLANS	-	-
PLANS CHK.	-	-

EXHIBIT 12 SHEET 3 OF 4

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS FOR 1"= 400' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS. AERIAL MAPPING PROVIDED BY AERIAL MAPPING COMPANY, INC. GROUND CONTROL SURVEY DATA PROVIDED BY PROJECT ENGINEERING CONSULTANTS





LEGEND

100-YR FLOODPLAIN BOUNDARY	
OLD 100-YR FLOODPLAIN BOUNDARY	
HYDRAULIC BASE LINE WITH RIVER STATION	335+00 340+00
CROSS SECTION	
ELEVATION REFERENCE MARK	ERM042
BASE FLOOD ELEVATIONS	1221
ZONE DESIGNATIONS	ZONE AE
SECTION LINES (APPROXIMATE)	Section Line

ELEVATION REFERENCE MARKS

NOTE: ALL ELEVATIONS ARE BASED ON NGVD OF 1929.
CONVERSION FACTOR 1929 NGVD TO 1988 NAVD=+ 1.752 FT
DATUM CONVERSION FACTOR METRIC SYSTEM TO IMPERIAL SYSTEM, 0.3048 M = 1 FT.
HORIZONTAL CONTROL BASED ON 1983 NAD.

I.D. NUMBER	ELEVATION (FT)	DESCRIPTION/LOCATION
ERM020	1292.120	CITY OF MESA BRASS CAP IN HANDHOLE (0.72' BELOW RIM) AT INTERSECTION OF HERMOSA VISTA DR. AND OLD GILBERT RD. N: 894,590.030 E: 739,374.180
ERM021	1300.319	CITY OF MESA BRASS CAP IN HANDHOLE (0.84' BELOW RIM) AT INTERSECTION OF HERMOSA VISTA DR. AND 24th STR. N: 894,597.165 E: 741,884.554
ERM026	1292.976	UNMARKED BRASS CAP IN HANDHOLE (0.30' BELOW RIM, 0.63' BELOW PAVEMENT) IN CL McKELLIPS RD., ±1/2 MILE EAST OF GILBERT RD., ±100' WEST OF CL EASTERN CANAL, ±300' EAST OF 24th STR. N: 891,936.798 E: 741,857.621
ERM027	1300.591	CITY OF MESA BRASS CAP IN HANDHOLE (0.50' BELOW RIM) AT INTERSECTION OF LINDSAY RD. AND McKELLIPS RD. N: 891,943.363 E: 744,497.178

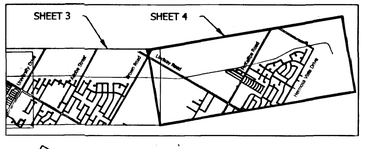
NOTES

1 - THE HYDRAULIC BASE LINE IS SET ALONG TOP OF CANAL ROAD. CROSS SECTION STATION 10,000 IS SET AT THE HYDRAULIC BASE LINE, UNLESS NOTED OTHERWISE.

2 - THE GROUND LINE IS SET AT 50 FT. FROM THE HYDRAULIC BASELINE. DEPTHS MAY BE GREATER OR LESS THAN THE ONES REPRESENTED ON THE PROFILE.

3 - THE MESA NORTHGROVE LOMR REFERRED TO IN THE PROFILE IS REGISTERED AS CASE NUMBER 99-09-238P, FROM 1/26/1999.

INDEX MAP



400' 0' 400' 800'

SCALE: 1"= 400 FEET
CONTOUR INTERVAL = 2 FEET
FLIGHT DATE: 03/20/96

NO.	REVISION	BY	DATE
2			
1	REVISION 1	FB	July, 2002

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

EASTERN CANAL NORTH FLOOD DELINEATION STUDY F.C.D. CONTRACT NO. 98-36

WORKMAP #4

Registered Professional Engineer (Civil) CERTIFICATE NO. 17756 SHI-EN SHIAU Date Signed 8-21-02 ARIZONA U.S.A.

PRIMATECH
ENGINEERS & CONSULTANTS

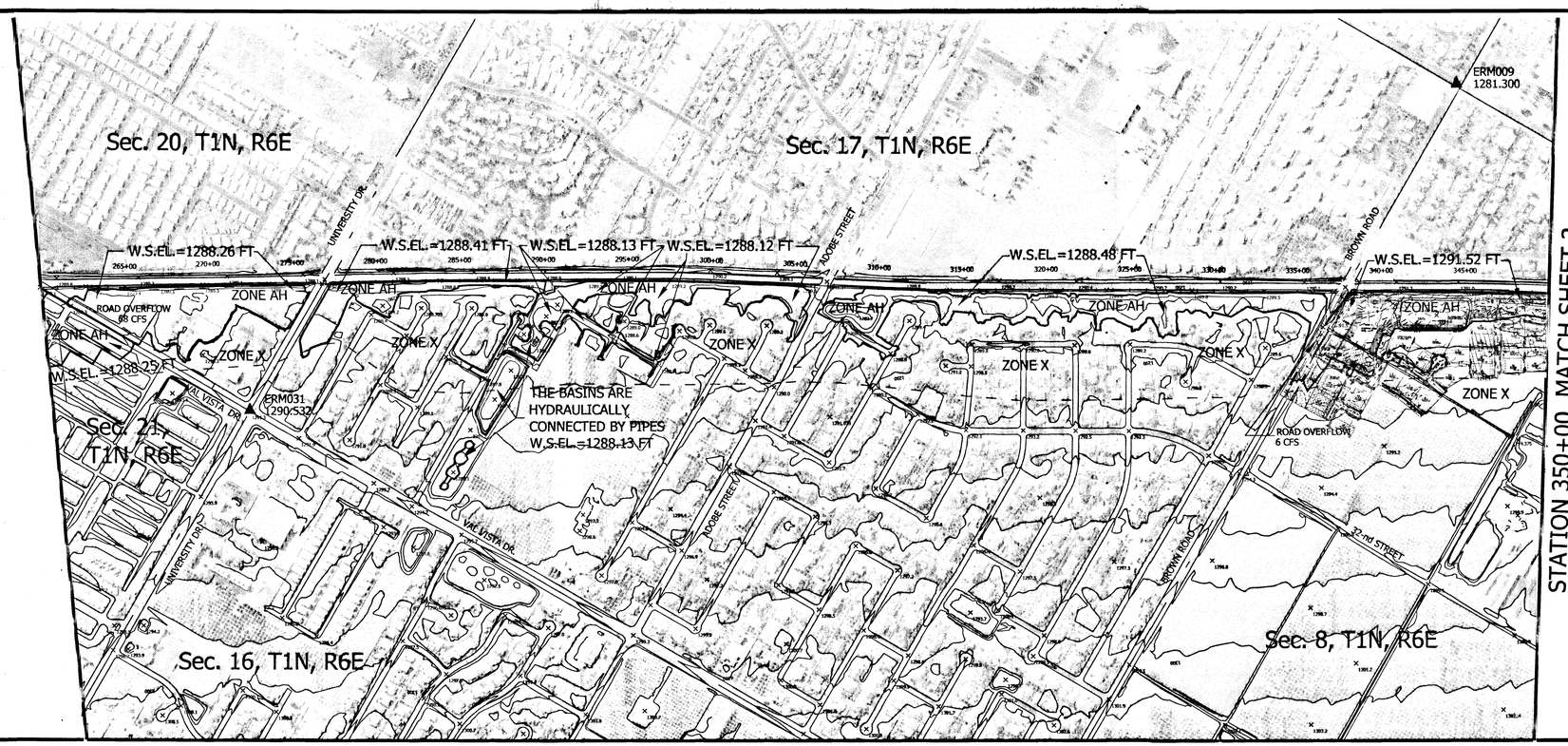
	BY	DATE
DESIGN	FB	OCT., 2001
DESIGN CHK.	WVH	OCT., 2001
PLANS	-	-
PLANS CHK.	-	-

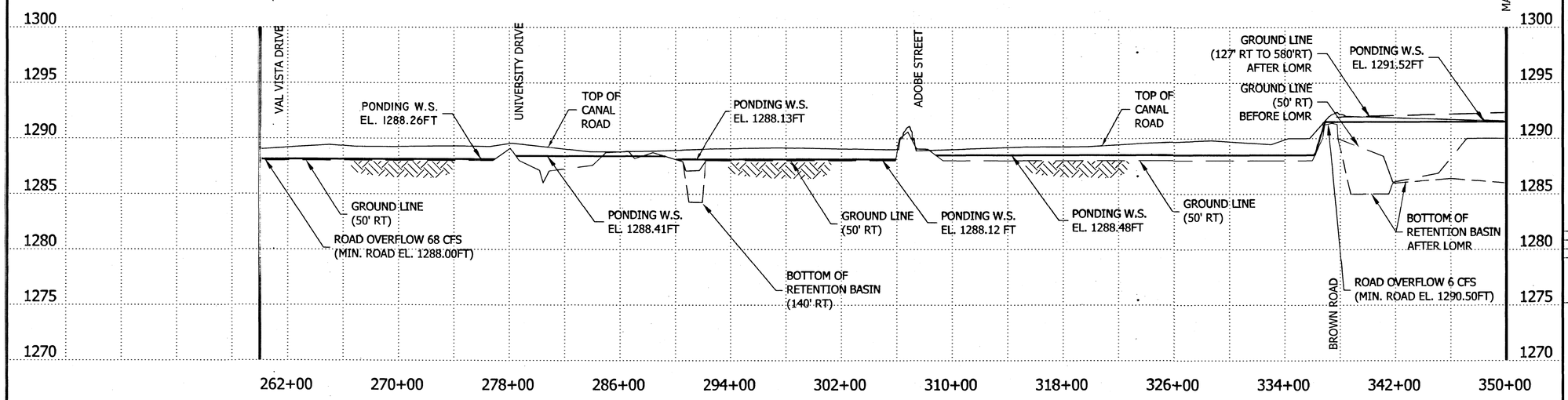
EXHIBIT 13 SHEET 4 OF 4

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS FOR 1"= 400' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS.

AERIAL MAPPING PROVIDED BY AERIAL MAPPING COMPANY, INC.

GROUND CONTROL SURVEY DATA PROVIDED BY PROJECT ENGINEERING CONSULTANTS





LEGEND

100-YR FLOODPLAIN BOUNDARY	
OLD 100-YR FLOODPLAIN BOUNDARY	
HYDRAULIC BASE LINE WITH RIVER STATION	335+00 340+00
CROSS SECTION	
ELEVATION REFERENCE MARK	ERM042
BASE FLOOD ELEVATIONS	1221
ZONE DESIGNATIONS	ZONE AE
SECTION LINES (APPROXIMATE)	Section Line

ELEVATION REFERENCE MARKS

NOTE: ALL ELEVATIONS ARE BASED ON NGVD OF 1929.
CONVERSION FACTOR 1929 NGVD TO 1988 NAVD=+ 1.752 FT
DATUM CONVERSION FACTOR METRIC SYSTEM TO IMPERIAL SYSTEM, 0.3048 M = 1 FT.
HORIZONTAL CONTROL BASED ON 1983 NAD.

I.D. NUMBER	ELEVATION (FT)	DESCRIPTION/LOCATION
ERM009	1281.300	CITY OF MESA BRASS CAP IN HANDHOLE (0.90' BELOW RIM) AT INTERSECTION OF BROWN ROAD AND LINDSAY ROAD. N: 886,648.012 E: 744,461.693
ERM031	1290.532	CITY OF MESA BRASS CAP IN HANDHOLE (0.58' BELOW RIM) AT INTERSECTION OF UNIVERSITY DRIVE AND VAL VISTA DRIVE. N: 881,382.552 E: 749,739.987

NOTES

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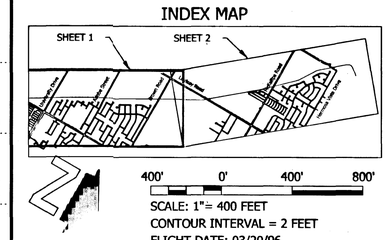
INDEX MAP



SCALE: 1"= 400 FEET
CONTOUR INTERVAL = 2 FEET
FLIGHT DATE: 03/20/96

NO.	REVISION	BY	DATE
2			
1	REVISION 1	FB	July, 2002

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

EASTERN CANAL NORTH FLOOD DELINEATION STUDY F.C.D. CONTRACT NO. 98-36

WORKMAP #3 INCLUDING LOMR

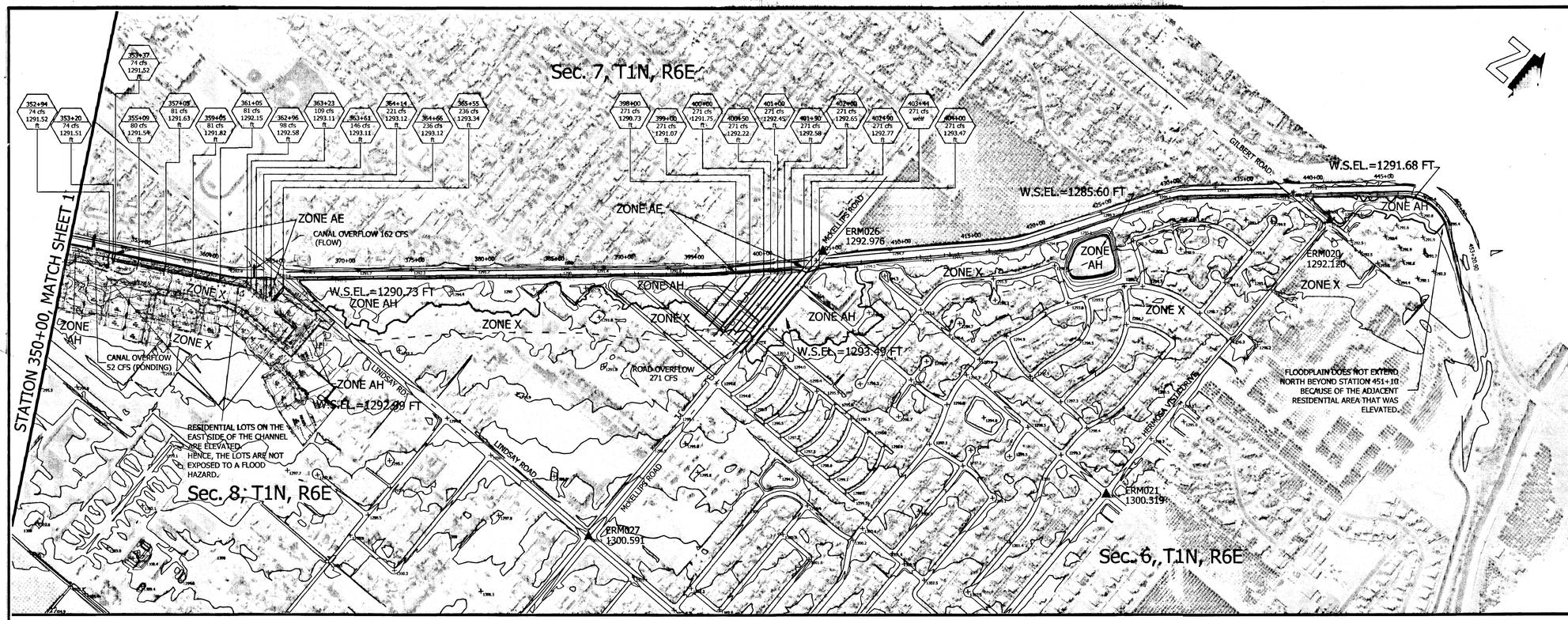
Registered Professional Engineer (Civil) CERTIFICATE NO. 17756 SHI-EN SHIAU Date Signed 8-21-02 ARIZONA U.S.A.

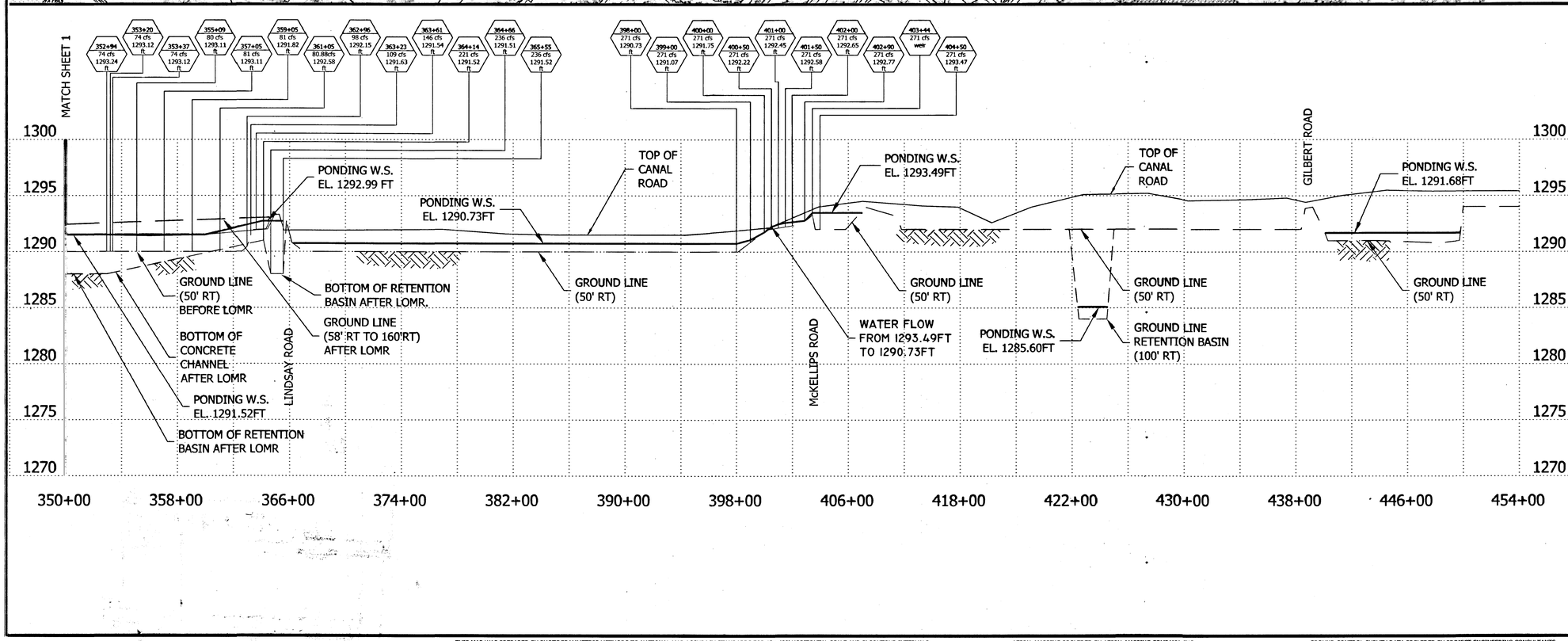
PRIMATECH
ENGINEERS & CONSULTANTS

	BY	DATE
DESIGN	FB	OCT., 2001
DESIGN CHK.	WVH	OCT., 2001
PLANS	-	-
PLANS CHK.	-	-

EXHIBIT 14 SHEET 1 OF 2

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS FOR 1"= 400' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS. AERIAL MAPPING PROVIDED BY AERIAL MAPPING COMPANY, INC. GROUND CONTROL SURVEY DATA PROVIDED BY PROJECT ENGINEERING CONSULTANTS





LEGEND

100-YR FLOODPLAIN BOUNDARY	
OLD 100-YR FLOODPLAIN BOUNDARY	
HYDRAULIC BASE LINE WITH RIVER STATION	335+00 340+00
CROSS SECTION	
ELEVATION REFERENCE MARK	ERM042
BASE FLOOD ELEVATIONS	1221
ZONE DESIGNATIONS	ZONE AE
SECTION LINES (APPROXIMATE)	Section Line

ELEVATION REFERENCE MARKS

NOTE: ALL ELEVATIONS ARE BASED ON NGVD OF 1929.
CONVERSION FACTOR 1929 NGVD TO 1988 NAVD=+ 1.752 FT
DATUM CONVERSION FACTOR METRIC SYSTEM TO IMPERIAL SYSTEM, 0.3048 M = 1 FT.
HORIZONTAL CONTROL BASED ON 1983 NAD.

I.D. NUMBER	ELEVATION (FT)	DESCRIPTION/LOCATION
ERM020	1292.120	CITY OF MESA BRASS CAP IN HANDHOLE (0.72' BELOW RIM) AT INTERSECTION OF HERMOSA VISTA DR. AND OLD GILBERT RD. N: 894,590.030 E: 739,374.180
ERM021	1300.319	CITY OF MESA BRASS CAP IN HANDHOLE (0.84' BELOW RIM) AT INTERSECTION OF HERMOSA VISTA DR. AND 24th STR. N: 894,597.165 E: 741,884.554
ERM026	1292.976	UNMARKED BRASS CAP IN HANDHOLE (0.30' BELOW RIM, 0.63' BELOW PAVEMENT) IN CL McKELLIPS RD., ±1/2 MILE EAST OF GILBERT RD., ±100' WEST OF CL EASTERN CANAL, ±300' EAST OF 24th STR. N: 891,936.798 E: 741,857.621
ERM027	1300.591	CITY OF MESA BRASS CAP IN HANDHOLE (0.50' BELOW RIM) AT INTERSECTION OF LINDSAY RD. AND McKELLIPS RD. N: 891,943.363 E: 744,497.178

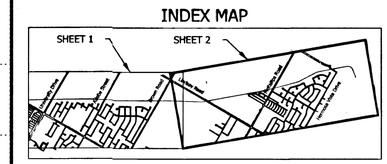
NOTES

1 - THE HYDRAULIC BASE LINE IS SET ALONG TOP OF CANAL ROAD. CROSS SECTION STATION 10,000 IS SET AT THE HYDRAULIC BASE LINE, UNLESS NOTED OTHERWISE.

2 - THE GROUND LINE IS SET AT 50 FT. FROM THE HYDRAULIC BASELINE. DEPTHS MAY BE GREATER OR LESS THAN THE ONES REPRESENTED ON THE PROFILE.

3 - THE MESA NORTHGROVE LOMR REFERRED TO IN THE PROFILE IS REGISTERED AS CASE NUMBER 99-09-238P, FROM 1/26/1999.

INDEX MAP



400' 0' 400' 800'

SCALE: 1"= 400 FEET
CONTOUR INTERVAL = 2 FEET
FLIGHT DATE: 03/20/96

NO.	REVISION	BY	DATE
2			
1	REVISION 1	FB	July, 2002

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

EASTERN CANAL NORTH FLOOD DELINEATION STUDY F.C.D. CONTRACT NO. 98-36

WORKMAP #4 INCLUDING LOMR

Registered Professional Engineer (Civil) CERTIFICATE NO. 17756 SHI-EN SHIAU Date Signed 8-21-00 ARIZONA U.S.A.

PRIMATECH
ENGINEERS & CONSULTANTS

	BY	DATE
DESIGN	FB	MAY, 2001
DESIGN CHK.	WVH	MAY, 2001
PLANS	-	-
PLANS CHK.	-	-

EXHIBIT 15 SHEET 2 OF 2

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS FOR 1"= 400' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS.

AERIAL MAPPING PROVIDED BY AERIAL MAPPING COMPANY, INC.

GROUND CONTROL SURVEY DATA PROVIDED BY PROJECT ENGINEERING CONSULTANTS