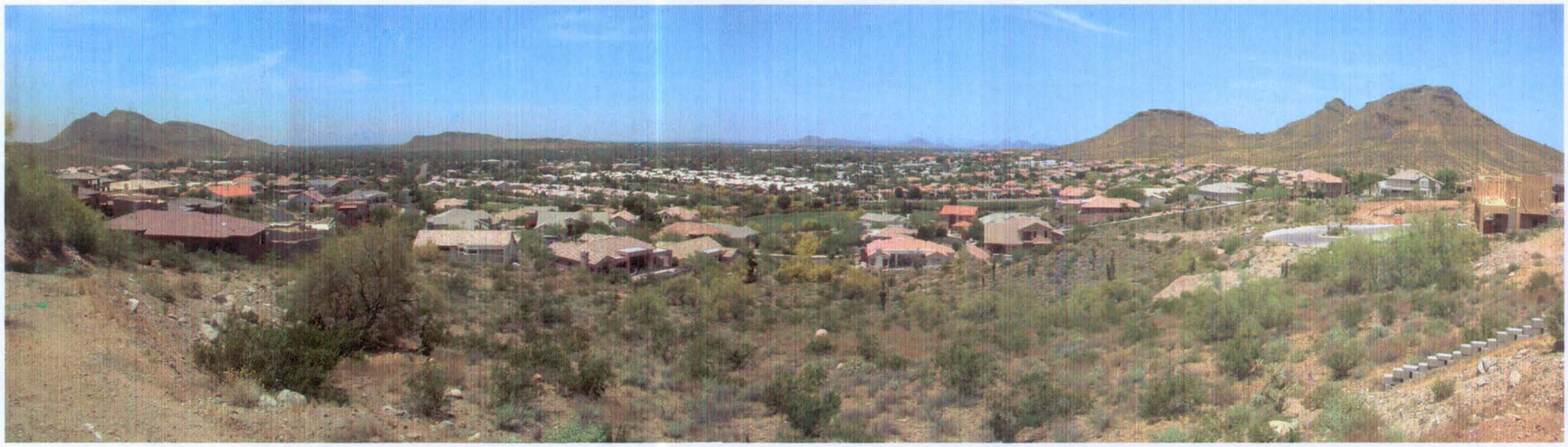
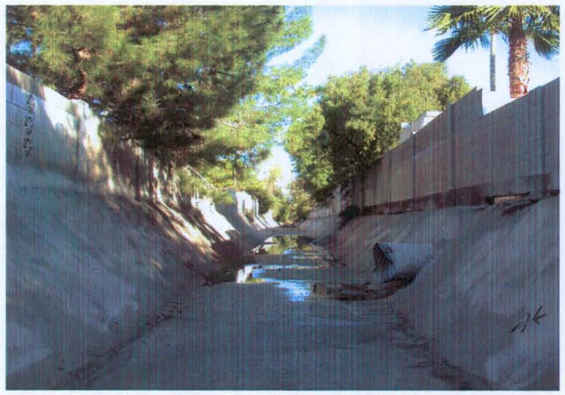
MOON VALLEY WASH FLOODPLAIN DELINEATION STUDY

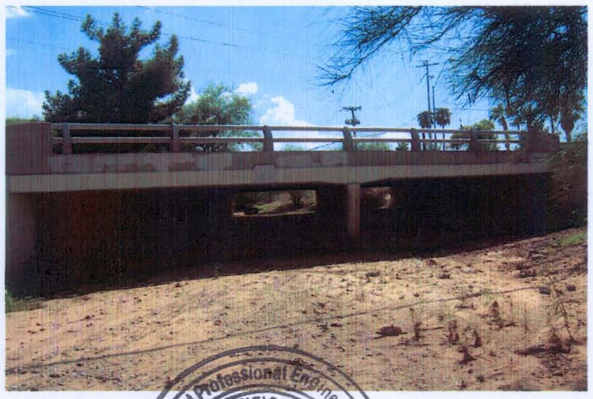
Phoenix, Arizona



TECHNICAL DATA NOTEBOOK

Volume 2 -Exhibits A thru G





PREPARED BY:
Project Engineering Consultants, Ltd.

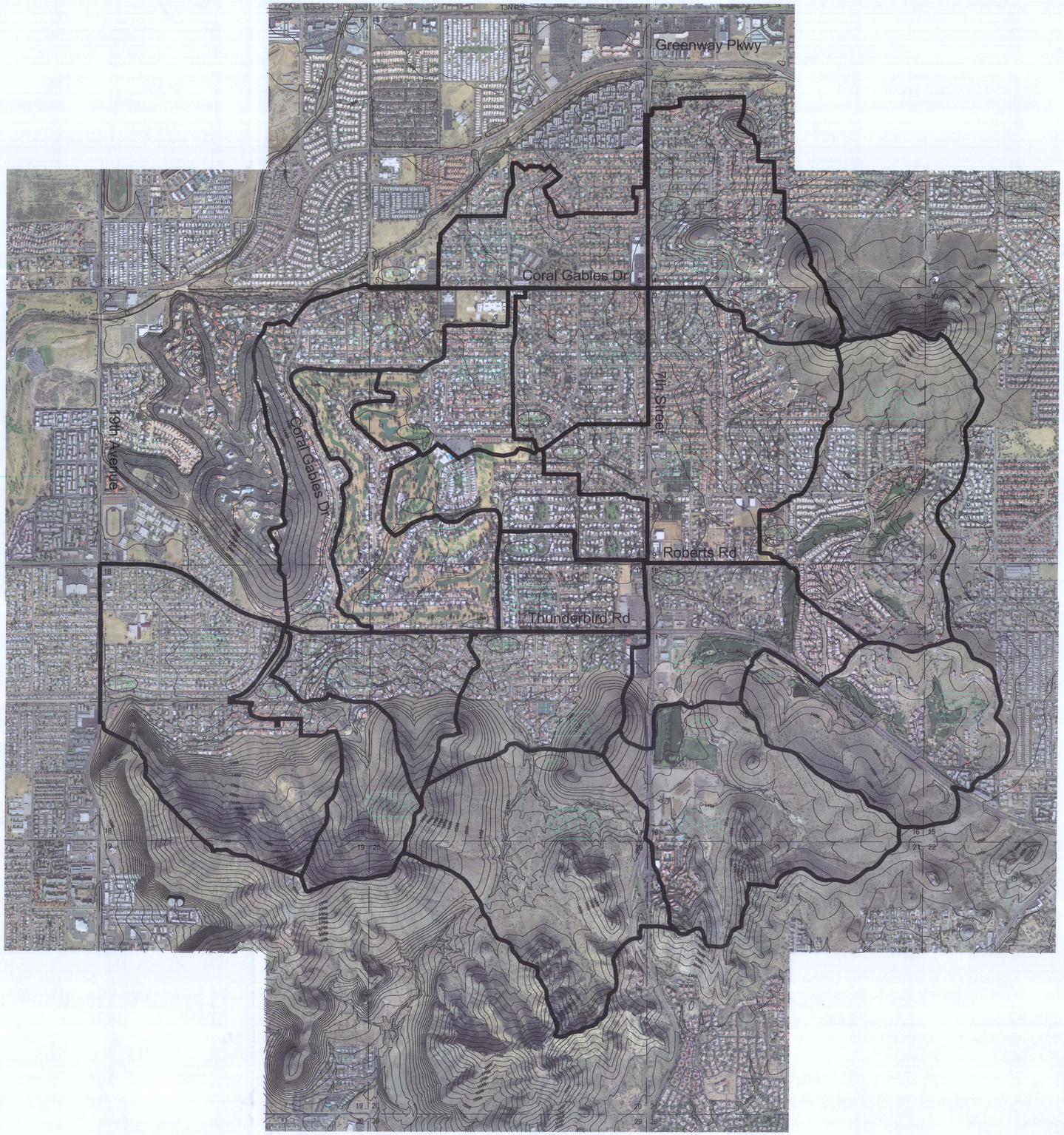
PREPARED FOR:
Flood Control District of Maricopa County

November 2006

Registered Professional Engineer (Civil)
CERTIFICATE NO.
25972
MICHAEL D.
HEATON
Date Signed 11-8-06
ARIZONA, U.S.A.

Project Engineering Consultants, Ltd.
2310 W. Mission Lane, Suite No. 4
Phoenix, Arizona 85021-2812
602-906-1901

Flood Control District of Maricopa County
2801 W. Durango Street
Phoenix, Arizona 85009-6356
602-506-1501



FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

MOON VALLEY WASH FLOODPLAIN DELINEATION STUDY

CONTRACT FCD 2004C022

LEGEND

- 100 — SUB BASIN DESIGNATION
- CONCENTRATION POINT
- 100 — CONCENTRATION POINT DESIGNATION
- SUB BASIN BOUNDARY
- 26 25 / 35 36 — SECTION LINES AND SECTION NUMBERS

PROJECT ENGINEERING CONSULTANTS, LTD.
2310 W. MISSION LANE, SUITE 4
PHOENIX, ARIZONA 85021

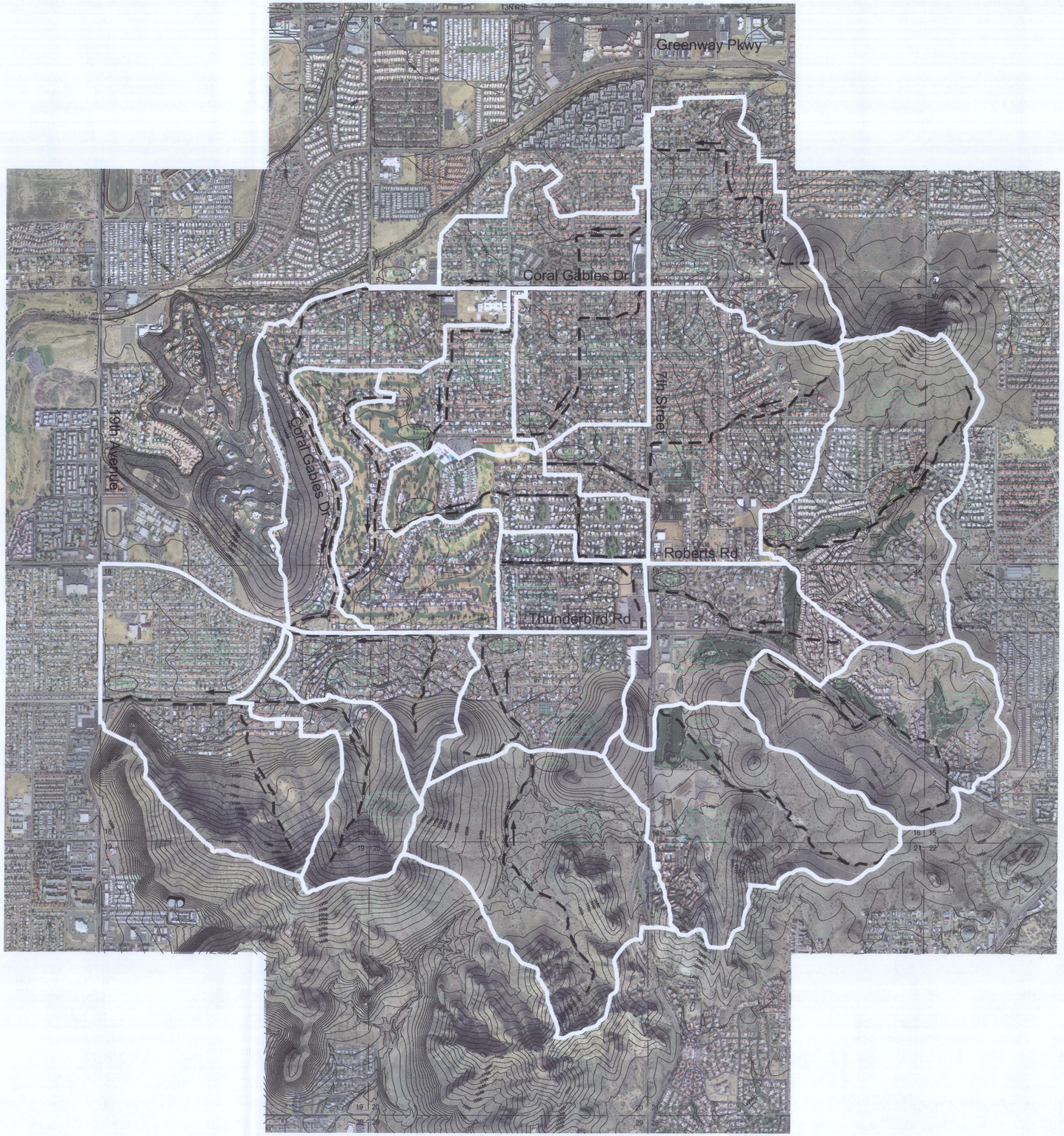
N

0 500' 1000' 2000'

SCALE: 1"=1000'

EXHIBIT A
DRAINAGE AREA BOUNDARY MAP

	BY	DATE	
DESIGN	GSB	8/05	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	MDH	8/05	
PLANS	GSB	8/05	RECOMMENDED BY: DATE
PLANS CHK.	MDH	8/05	APPROVED BY: DATE
SUBMITTED BY: DATE:			CHIEF ENGINEER AND GENERAL MANAGER
			SHEET 1 OF 1



FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

MOON VALLEY WASH FLOODPLAIN DELINEATION STUDY

CONTRACT FCD 2004C022

LEGEND

- 103 — SUB BASIN DESIGNATION
- 103 — CONCENTRATION POINT
- SUB BASIN BOUNDARY
- FLOW PATH
- FLOW DIRECTION
- BASIN CENTROID AND Lca START POINT
- 26 25 / 35 36 — SECTION LINES AND SECTION NUMBERS

PROJECT ENGINEERING CONSULTANTS, LTD.
2310 W. MISSION LANE, SUITE 4
PHOENIX, ARIZONA 85021

N

0 500' 1000' 2000'

SCALE: 1"=1000'

EXHIBIT B
DRAINAGE FLOW PATH (LAG) MAP

	BY	DATE
DESIGN	GSB	8/05
DESIGN CHK.	MDH	8/05
PLANS	GSB	8/05
PLANS CHK.	MDH	8/05

SUBMITTED BY: DATE:

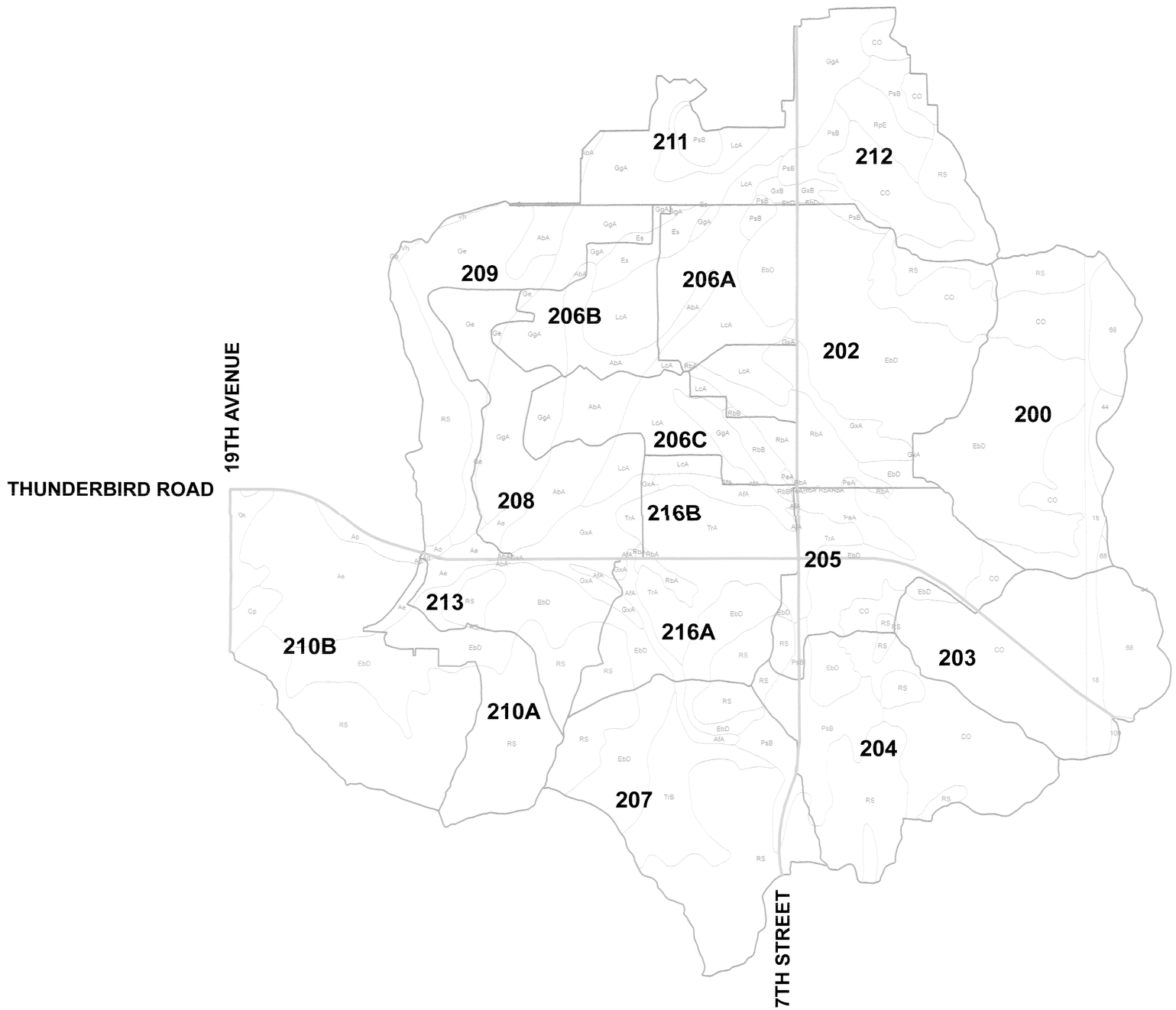
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 1 OF 1



FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

MOON VALLEY WASH

FLOODPLAIN DELINEATION STUDY

CONTRACT FCD 2004C022

LEGEND

200 SUB-BASIN DESIGNATION

SUB-BASIN BOUNDARY

SOIL BOUNDARY

ARTERIAL STREET

N

0 1,000 2,000 4,000 Feet

SCALE: 1" = 1,000'

EXHIBIT C

SOILS MAP

DATE: 08/05	SHEET 1 OF 1

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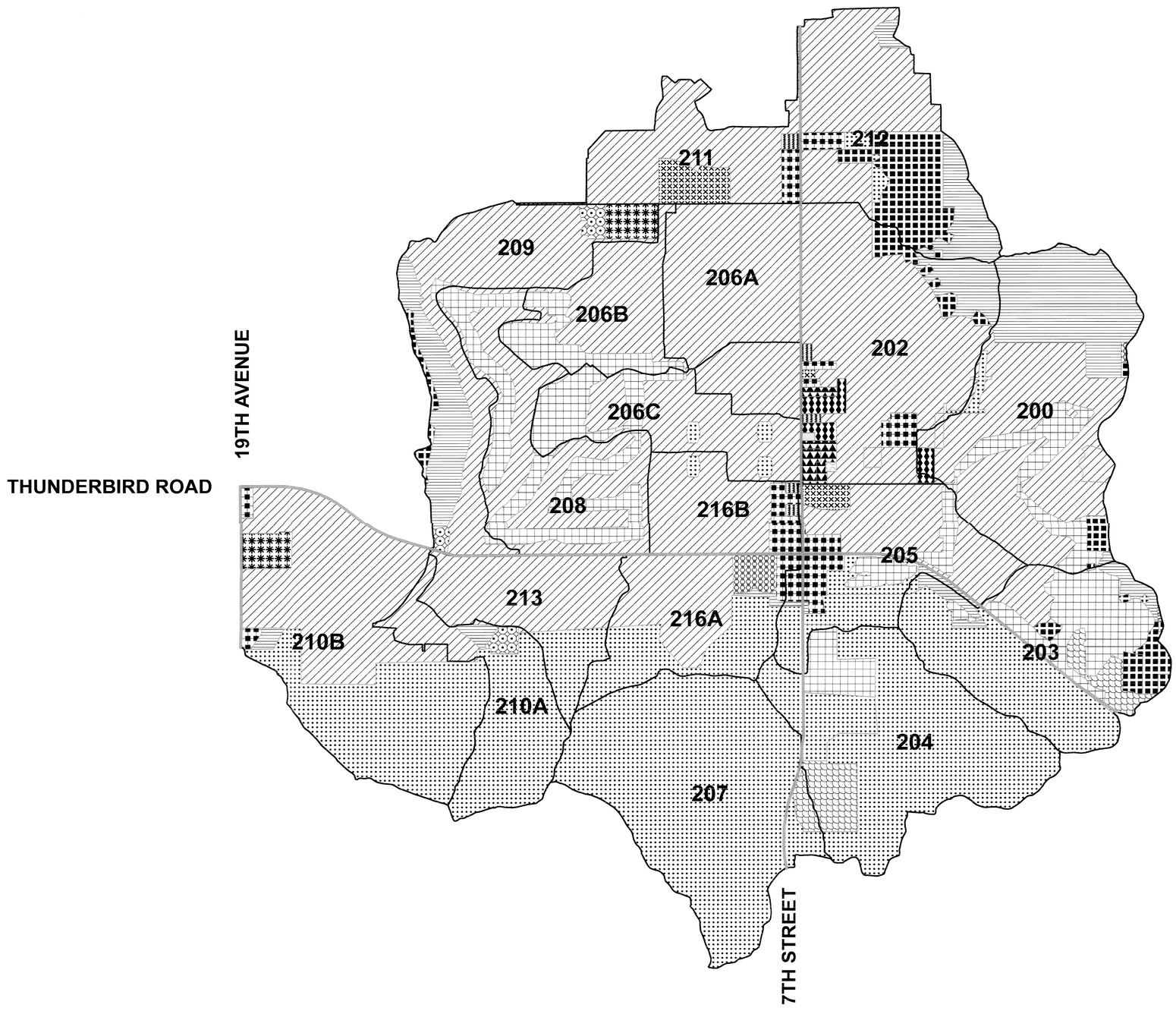
2310 West Mission Lane, Suite 4
Phoenix, AZ 85021



FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

MOON VALLEY WASH

FLOODPLAIN DELINEATION STUDY

CONTRACT FCD 2004C022

LEGEND

200 Sub-Basin Designation

Sub-Basin Boundary

Residential Land Uses

- Very High Density Residential - Multi Family (> 15 du per acre)
- High Density Residential - Multi Family (10-15 du per acre)
- Mediam Density Residential - Multi Family (10-15 du per acre)
- Very Small Lot Residential - Single Family (>6 du per acre)
- Small Lot Residential - Single Family (>4-6 du per acre)
- Medium Lot Residential - Single Family (2-4 du per acre)
- Large Lot Residential - Single Family (1 du per acre)

Commercial/Industial Land Use

- Nursery
- Specialty Commercial (<50,000 sq. ft.)
- Nieghborhood Commercial (50,000 to 100,000 sq. ft.)
- Office Low Rise (1-4 stories)
- Office Mid Rise (5-12 stories)
- Public Facilities (Police/fire and other government buildings)
- Educational (Public schools, private schools and universities)
- Institutional (Hospitals and churches)

Open Space Land Use

- Active Open Space (parks)
- Passive Open Space (mountain perserves and washes)
- Golf Courses

N

0 1,000 2,000 4,000 Feet

SCALE: 1" = 1,000'

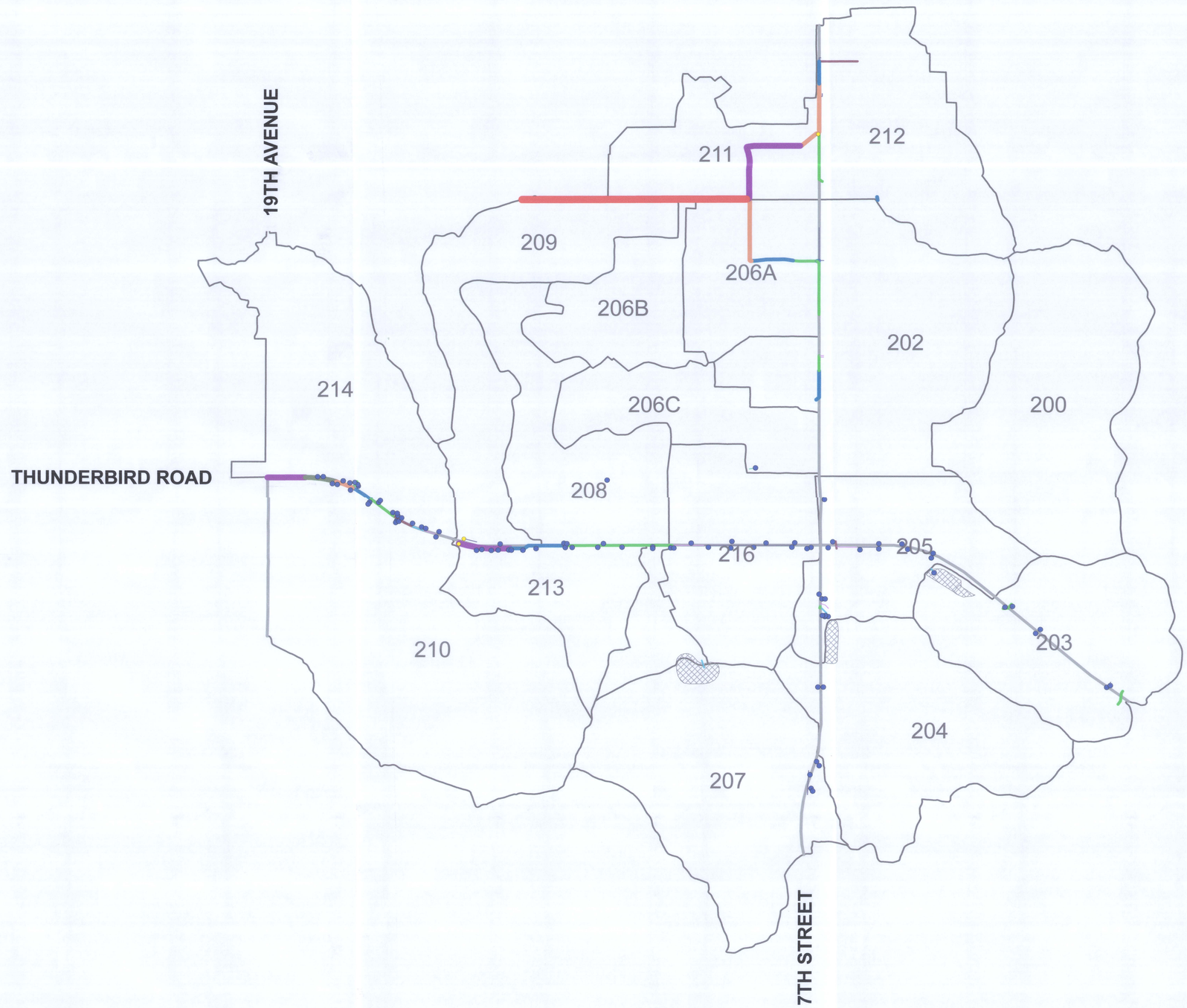
EXHIBIT D

LAND USE MAP

DATE: 08/05 | **SHEET 1 OF 1**

PROJECT ENGINEERING CONSULTANTS, LTD.
2310 West Mission Lane, Suite 4
Phoenix, AZ 85021

Land use data provided by Flood Control District of Maricopa, 12/04. This data was modified by Project Engineering Consultants, Ltd. to include recent development.



Data provided by the City of Phoenix (COP GIS database), 1/05.

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

MOON VALLEY WASH FLOODPLAIN DELINEATION STUDY

CONTRACT FCD 2004C022

LEGEND

- 200 SUB-BASIN DESIGNATION
- SUB-BASIN BOUNDRY
- DETENTION AREA
- INLET
- OUTFALL
- STORM DRAIN, 18"
- STORM DRAIN, 21"
- STORM DRAIN, 24"
- STORM DRAIN, 27"
- STORM DRAIN, 30"
- STORM DRAIN, 36"
- STORM DRAIN, 42"
- STORM DRAIN, 48"
- STORM DRAIN, 51"
- STORM DRAIN, 54"
- STORM DRAIN, 84"
- STREET

N

0 1,000 2,000 4,000 Feet

SCALE: 1" = 1,000'

EXHIBIT E

STORM DRAIN MAP

DATE: 07/05	SHEET 1 OF 1

PROJECT ENGINEERING CONSULTANTS, LTD.
2310 West Mission Lane, Suite 4
Phoenix, AZ 85021

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

MOON VALLEY WASH FLOODPLAIN DELINEATION STUDY

CONTRACT FCD 2004C022

LEGEND

- 200 SUB BASIN DESIGNATION
- SUB BASIN BOUNDARY
- 200 CONCENTRATION POINT DESIGNATION
- CONCENTRATION POINT
- ROUTING PATH
- RM 203 ROUTED HYDROGRAPH
- 203 RR RESERVOIR ROUTE
- D206D DIVERTED HYDROGRAPH
- FLOW DIRECTION
- OR 203 RETENTION DIVERSION
- ARTERIAL STREETS

PROJECT ENGINEERING CONSULTANTS, LTD.
2310 W. MISSION LANE, SUITE 4
PHOENIX, ARIZONA 85021

0 500' 1000' 2000'

SCALE: 1"=1000'

EXHIBIT F
HEC-1 SCHEMATIC

	BY	DATE
DESIGN	GSB	8/05
DESIGN CHK.	MDH	8/05
PLANS	GSB	8/05
PLANS CHK.	MDH	8/05

SUBMITTED BY: DATE:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

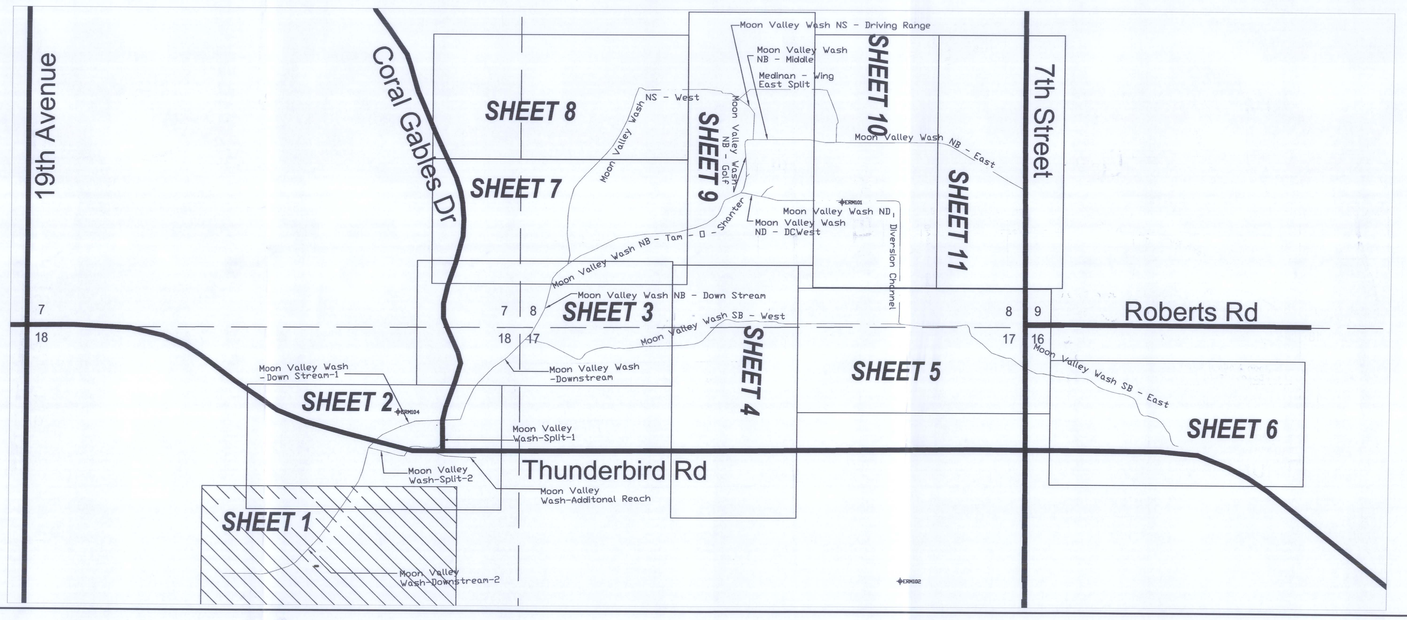
CHIEF ENGINEER AND GENERAL MANAGER

SHEET 1 OF 1

Flight Data for Topographic Mapping: 11/11/04
1-foot Contour Interval
Scale: 1" = 100'

Control Datums: Horizontal - Maricopa County GDACS NAD83 (1992)
Vertical - Maricopa County GDACS (NGVD29)

MAP INDEX



FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

MOON VALLEY WASH FLOODPLAIN DELINEATION STUDY

CONTRACT FCD 2004C022

LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- EXISITING 100-YR FLOODPLAIN BOUNDARY
- -2.00 HYDRAULIC BASE LINE WITH RIVER MILE
- River Sta. / Discharge (cfs) / FP ELEV. / Velocity (ft/s) — CROSS SECTION
- x 1252.7 SPOT ELEVATION
- 1260 BASE FLOOD ELEVATIONS
- ZONE AE ZONE DESIGNATIONS
- ERM101 ERM LOCATION
- 17 16 / 20 21 SECTION CORNER

N

SCALE: 1" = 100'

0 100 200 300

ELEVATION REFERENCE MARKS

DATE	REVISION	BY

Registered Professional Engineer (Civil) CERTIFICATE NO. 25972 MICHAEL D. HEATON Date Signed 11-8-06 ARIZONA, U.S.A.

Registered Land Surveyor CERTIFICATE NO. 39131 PAUL E. MILUSKI Date Signed 11-8-06 ARIZONA, U.S.A.

PROJECT ENGINEERING CONSULTANTS, LTD.
2310 W. MISSION LANE, STE. 4
PHOENIX, ARIZONA 85021

	BY	DATE
DESIGN	GSB	11/03/06
DESIGN CHK.	MDH	11/03/06
PLANS	GSB	11/03/06
PLANS CHK.	MDH	11/03/06

SUBMITTED BY: DATE:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

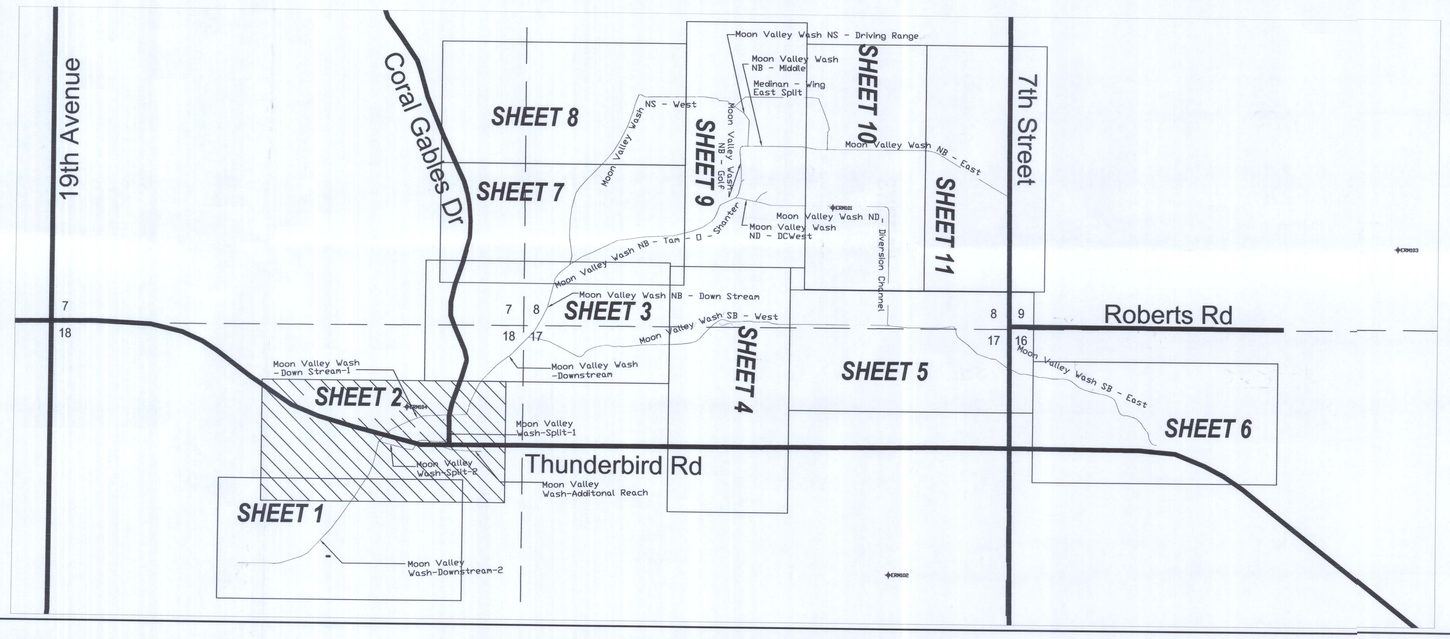
CHIEF ENGINEER AND GENERAL MANAGER

SHEET 1 OF 11

Flight Data for Topographic Mapping: 11/11/04
1-foot Contour Interval
Scale: 1" = 100'

Control Datums: Horizontal - Maricopa County GDACS NAD83 (1992)
Vertical - Maricopa County GDACS (NGVD29)

MAP INDEX



FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

MOON VALLEY WASH FLOODPLAIN DELINEATION STUDY

CONTRACT FCD 2004C022

LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- EXISITING 100-YR FLOODPLAIN BOUNDARY
- 2.00 — HYDRAULIC BASE LINE WITH RIVER MILE
- River Sta. / Discharge (cfs) / FP ELEV. / Velocity (ft/s) — CROSS SECTION
- x 1252.7 — SPOT ELEVATION
- 1260 — BASE FLOOD ELEVATIONS
- ZONE AE — ZONE DESIGNATIONS
- ERM101 — ERM LOCATION
- 17 16 / 20 21 — SECTION CORNER

N

SCALE: 1" = 100'

0 100 200 300

ELEVATION REFERENCE MARKS

LABEL	NORTHING	EASTING	ELEV.	DESCRIPTION
ERM104	648172.348	949027.525	1320.671	Flood Control District of Maricopa County Brass flush w/concrete, 950'±. southwest of intersection of Coral GablesDrive and Indian Hills Drive, south side of Indian Hills Drive, 2'±west of concrete drainage channel on westside of City of Phoenix Wellsite

DATE	REVISION	BY

Registered Professional Engineer (Civil) CERTIFICATE NO. 25972 MICHAEL D. HEATON Date Signed 11-8-06 ARIZONA, U.S.A.

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PHOENIX, ARIZONA 85021

	BY	DATE
DESIGN	GSB	11/03/06
DESIGN CHK.	MDH	11/03/06
PLANS	GSB	11/03/06
PLANS CHK.	MDH	11/03/06

SUBMITTED BY: DATE:

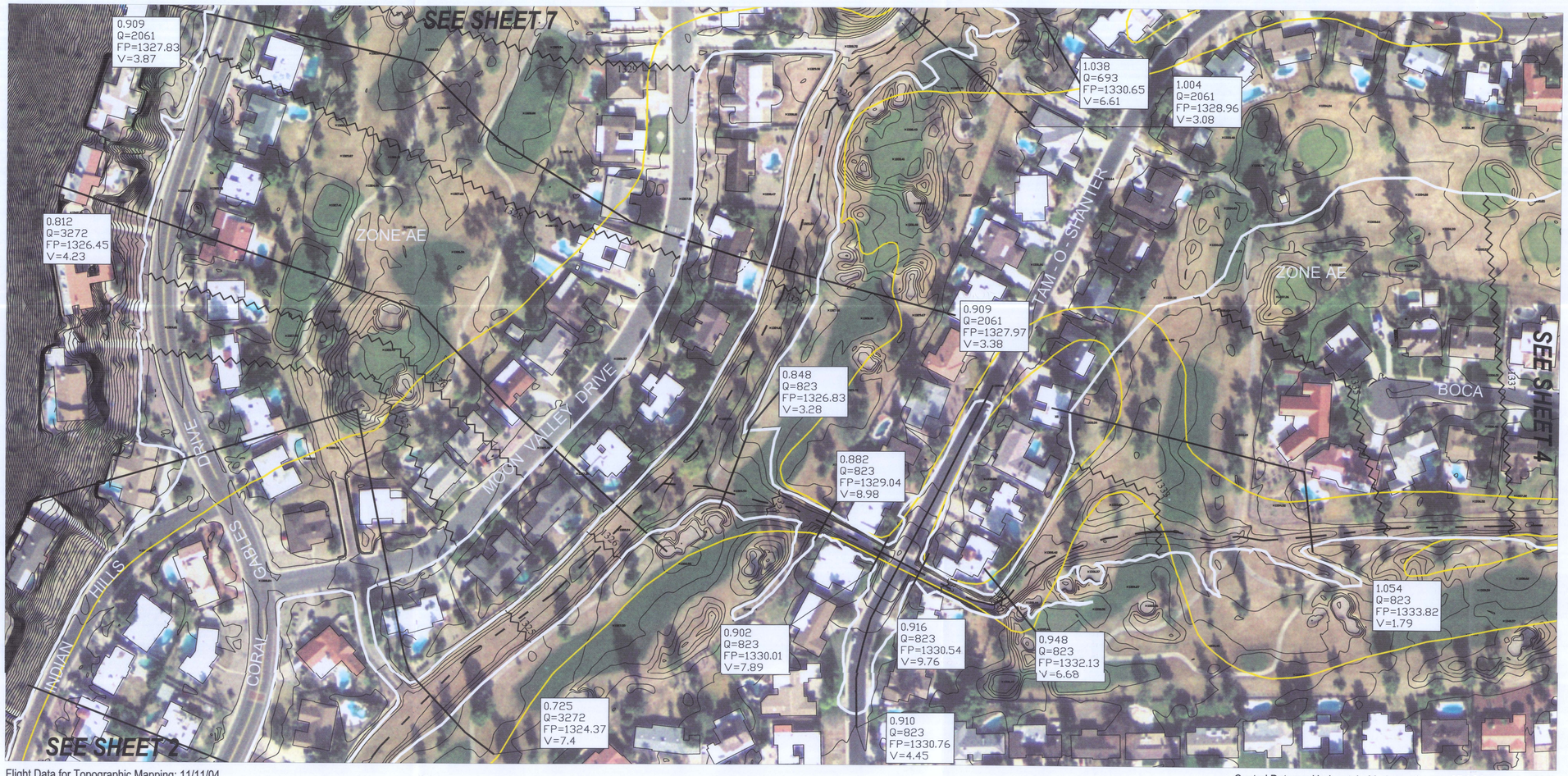
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

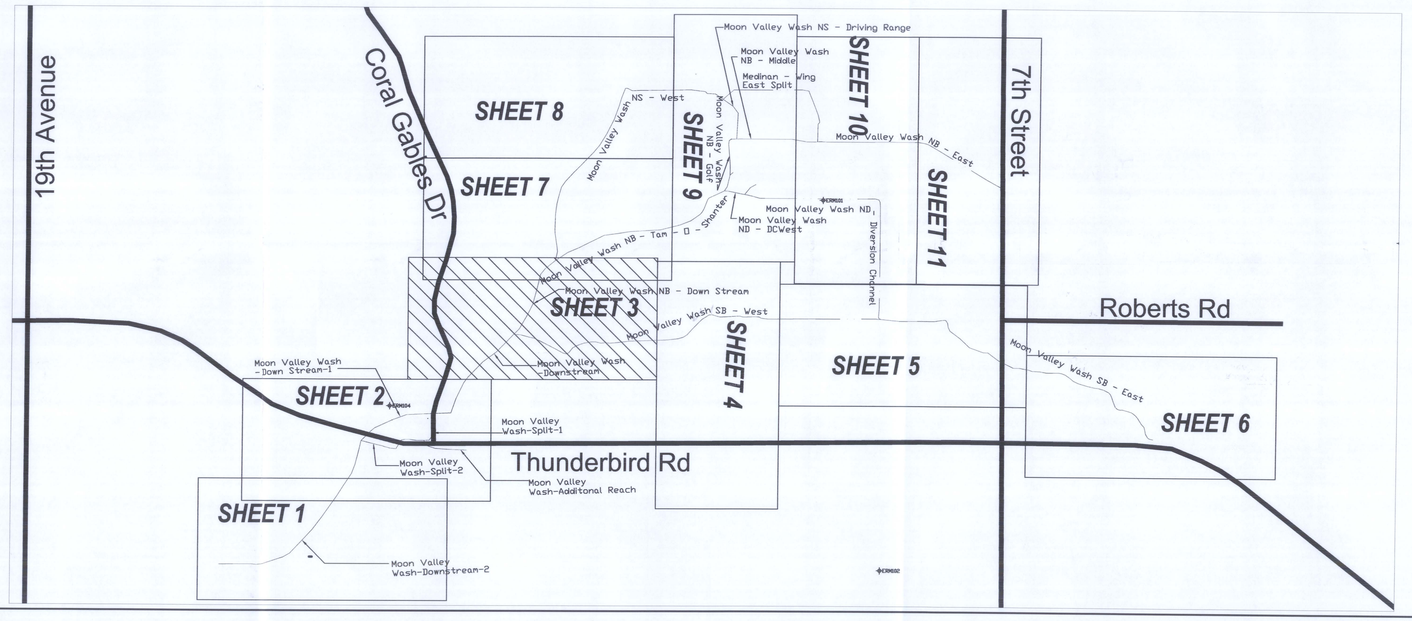
SHEET 2 OF 11



Flight Data for Topographic Mapping: 11/11/04
1-foot Contour Interval
Scale: 1" = 100'

Control Datums: Horizontal - Maricopa County GDACS NAD83 (1992)
Vertical - Maricopa County GDACS (NGVD29)

MAP INDEX



FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

MOON VALLEY WASH FLOODPLAIN DELINEATION STUDY

CONTRACT FCD 2004C022

LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- EXISITING 100-YR FLOODPLAIN BOUNDARY
- -2.00 — HYDRAULIC BASE LINE WITH RIVER MILE
- River Sta. / Discharge (cfs) / FP ELEV. / Velocity (ft/s) — CROSS SECTION
- x 1252.7 — SPOT ELEVATION
- 1260 — BASE FLOOD ELEVATIONS
- ZONE AE — ZONE DESIGNATIONS
- ERM101 — ERM LOCATION
- 17 16 / 20 21 — SECTION CORNER

N

SCALE: 1" = 100'

0 100 200 300

ELEVATION REFERENCE MARKS

DATE	REVISION	BY

Registered Professional Engineer (Civil) CERTIFICATE NO. 25972 MICHAEL D. HEATON Date Signed 11-6-06 ARIZONA, U.S.A.

Registered Land Surveyor CERTIFICATE NO. 39131 PAUL E. MILUSKI Date Signed 11-8-06 ARIZONA, U.S.A.

PROJECT ENGINEERING CONSULTANTS, LTD.
2310 W. MISSION LANE, STE. 4
PHOENIX, ARIZONA 85021

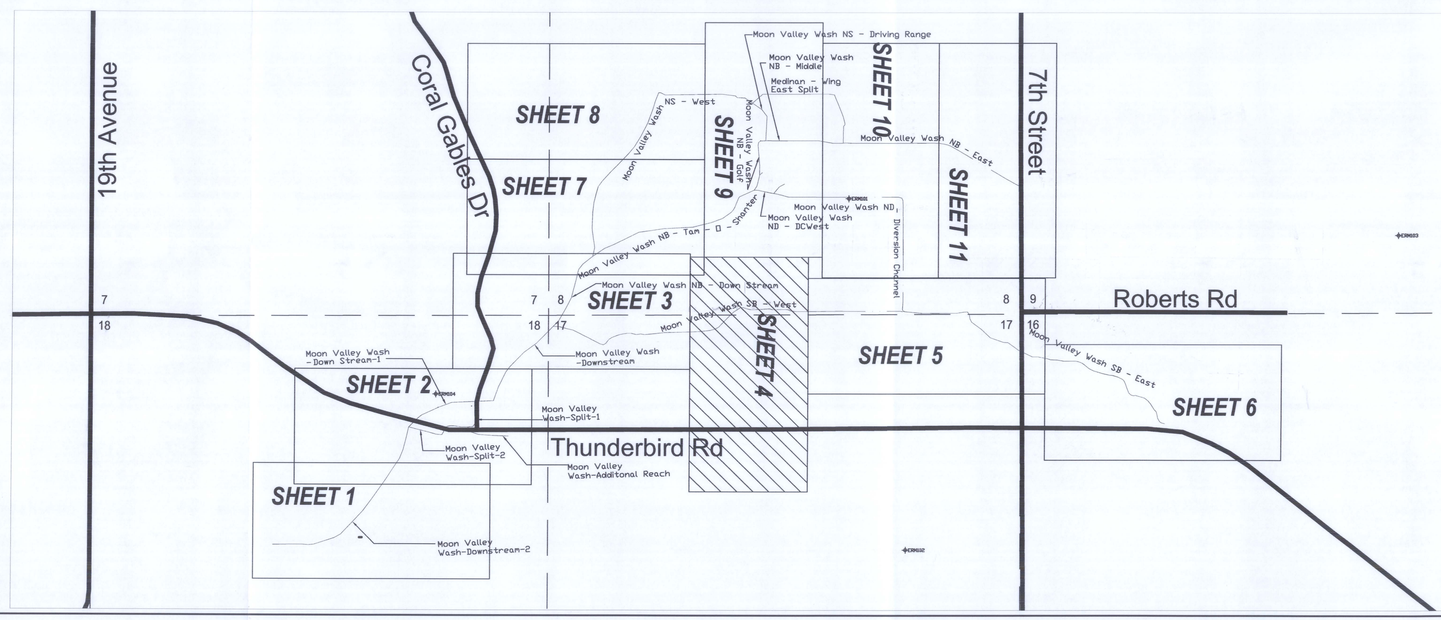
	BY	DATE	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN	GSB	11/03/06	
DESIGN CHK.	MDH	11/03/06	
PLANS	GSB	11/03/06	RECOMMENDED BY: DATE
PLANS CHK.	MDH	11/03/06	APPROVED BY: DATE
SUBMITTED BY: DATE:			CHIEF ENGINEER AND GENERAL MANAGER

SHEET 3 OF 11

Flight Data for Topographic Mapping: 11/11/04
1-foot Contour Interval
Scale: 1" = 100'

Control Datums: Horizontal - Maricopa County GDACS NAD83 (1992)
Vertical - Maricopa County GDACS (NGVD29)

MAP INDEX



FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

MOON VALLEY WASH FLOODPLAIN DELINEATION STUDY

CONTRACT FCD 2004C022

LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- EXISITING 100-YR FLOODPLAIN BOUNDARY
- 2.00 — HYDRAULIC BASE LINE WITH RIVER MILE
- River Sta. / Discharge (cfs) / FP ELEV / Velocity (ft/s) — CROSS SECTION
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- 1260 — BASE FLOOD ELEVATIONS
- ZONE AE — ZONE DESIGNATIONS
- ERM101 — ERM LOCATION
- 17 16 / 20 21 — SECTION CORNER

N

SCALE: 1" = 100'

0 100 200 300

ELEVATION REFERENCE MARKS

DATE	REVISION	BY

Registered Professional Engineer (Civil) CERTIFICATE NO. 25972 MICHAEL D. HEATON Date Signed 11-8-06 ARIZONA, U.S.A.

Registered Land Surveyor CERTIFICATE NO. 39131 PAUL E. MILUSKI Date Signed 11-8-06 ARIZONA, U.S.A.

PROJECT ENGINEERING CONSULTANTS, LTD.
2310 W. MISSION LANE, STE. 4
PHOENIX, ARIZONA 85021

	BY	DATE
DESIGN	GSB	11/03/06
DESIGN CHK.	MDH	11/03/06
PLANS	GSB	11/03/06
PLANS CHK.	MDH	11/03/06

SUBMITTED BY: DATE:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

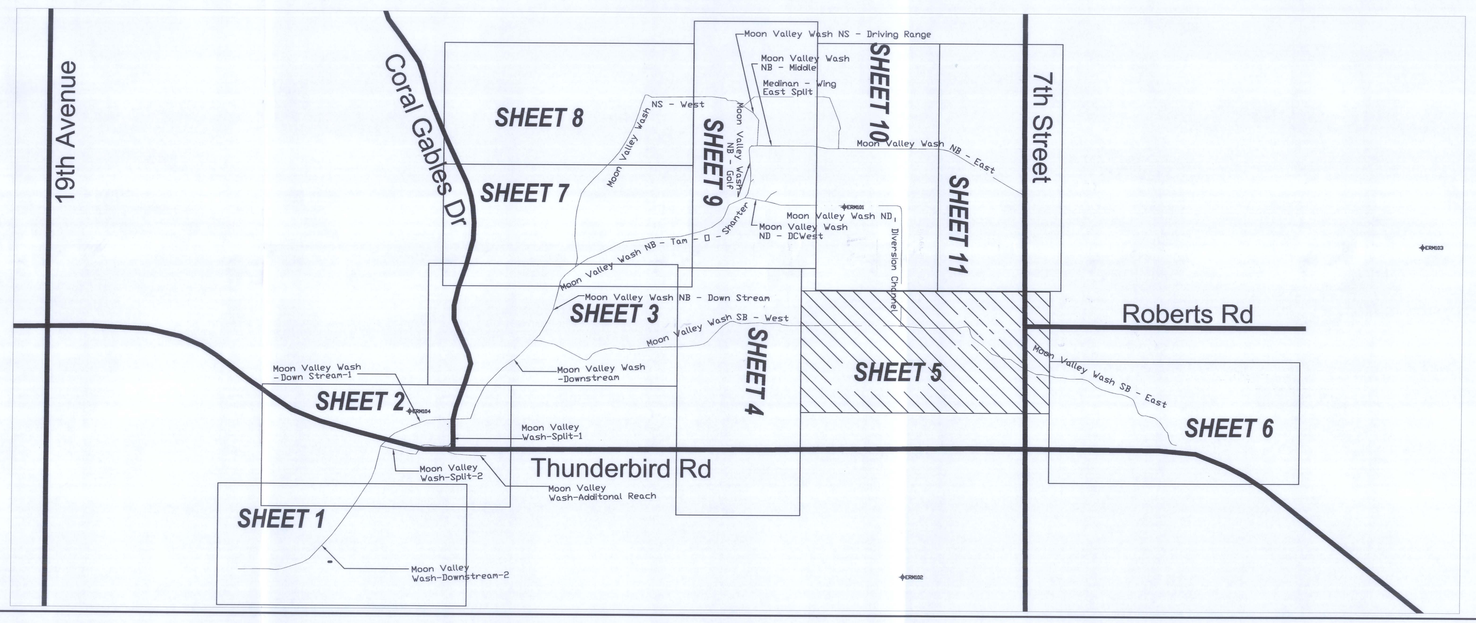
CHIEF ENGINEER AND GENERAL MANAGER

SHEET 4 OF 11

Flight Data for Topographic Mapping: 11/11/04
1-foot Contour Interval
Scale: 1" = 100'

Control Datums: Horizontal - Maricopa County GDACS NAD83 (1992)
Vertical - Maricopa County GDACS (NGVD29)

MAP INDEX



FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

MOON VALLEY WASH FLOODPLAIN DELINEATION STUDY

CONTRACT FCD 2004C022

LEGEND

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- EXISITING 100-YR FLOODPLAIN BOUNDARY
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N

SCALE: 1" = 100'

0 100 200 300

ELEVATION REFERENCE MARKS

DATE	REVISION	BY

Registered Professional Engineer (Civil) CERTIFICATE NO. 25972 MICHAEL D. HEATON Date Signed 11-6-06 ARIZONA, U.S.A.

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2310 W. MISSION LANE, STE. 4
PHOENIX, ARIZONA 85021

	BY	DATE
DESIGN	GSB	11/03/06
DESIGN CHK.	MDH	11/03/06
PLANS	GSB	11/03/06
PLANS CHK.	MDH	11/03/06

SUBMITTED BY: DATE:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

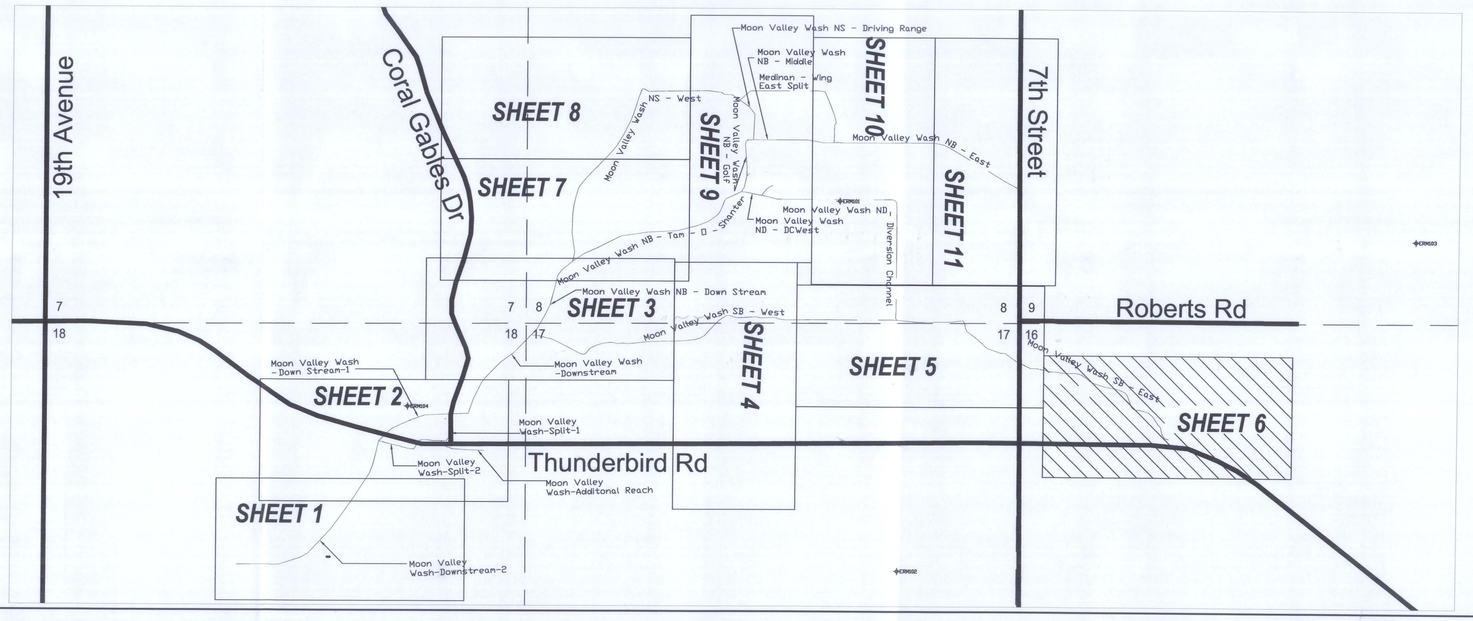
CHIEF ENGINEER AND GENERAL MANAGER

SHEET 5 OF 11

Flight Data for Topographic Mapping: 11/11/04
1-foot Contour Interval
Scale: 1" = 100'

Control Datums: Horizontal - Maricopa County GDACS NAD83 (1992)
Vertical - Maricopa County GDACS (NGVD29)

MAP INDEX



FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

MOON VALLEY WASH FLOODPLAIN DELINEATION STUDY

CONTRACT FCD 2004C022

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N

SCALE: 1" = 100'

0 100 200 300

ELEVATION REFERENCE MARKS

DATE	REVISION	BY

Registered Professional Engineer (Civil) CERTIFICATE NO. 25972 MICHAEL D. HEATON Date Signed 11-8-06 ARIZONA, U.S.A.

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PROJECT ENGINEERING CONSULTANTS, LTD.
2310 W. MISSION LANE, STE. 4
PHOENIX, ARIZONA 85021

	BY	DATE
DESIGN	GSB	11/03/06
DESIGN CHK.	MDH	11/03/06
PLANS	GSB	11/03/06
PLANS CHK.	MDH	11/03/06

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

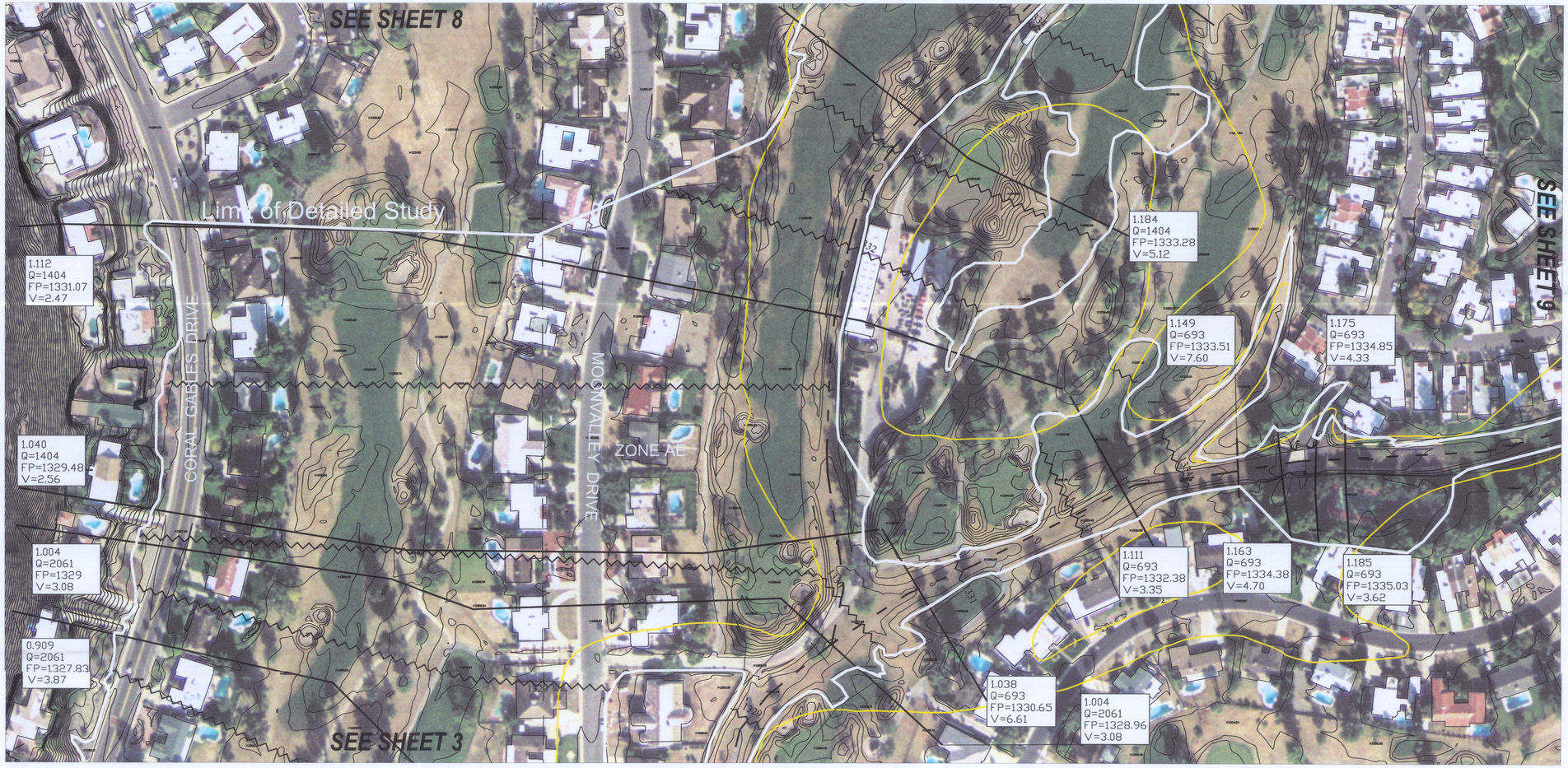
RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SUBMITTED BY: DATE:

SHEET 6 OF 11



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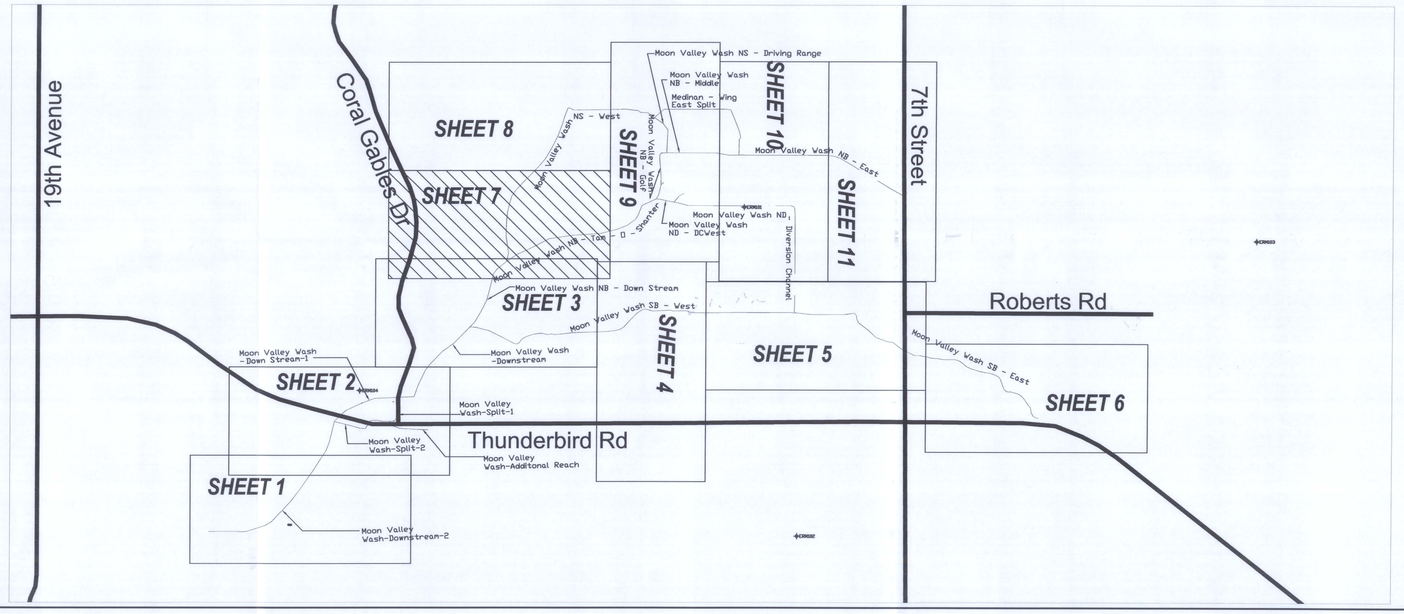
Scale: 1" = 100'

Control Datums: Horizontal - Maricopa County GDACS NAD83 (1992)
Vertical - Maricopa County GDACS (NGVD29)

MAP INDEX



FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

MOON VALLEY WASH FLOODPLAIN DELINEATION STUDY

CONTRACT FCD 2004C022

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- ERM101 — ERM LOCATION
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N

SCALE: 1" = 100'

0 100 200 300

ELEVATION REFERENCE MARKS

DATE	REVISION	BY

Registered Professional Engineer (Civil) CERTIFICATE NO. 25972 MICHAEL D. HEATON Date Signed 11-8-06 ARIZONA, U.S.A.

Registered Land Surveyor CERTIFICATE NO. 39131 PAUL E. MILUSKI Date Signed 11-9-06 ARIZONA, U.S.A.

PROJECT ENGINEERING CONSULTANTS, LTD.
2310 W. MISSION LANE, STE. 4
PHOENIX, ARIZONA 85021

	BY	DATE
DESIGN	GSB	11/03/06
DESIGN CHK.	MDH	11/03/06
PLANS	GSB	11/03/06
PLANS CHK.	MDH	11/03/06

SUBMITTED BY: DATE:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

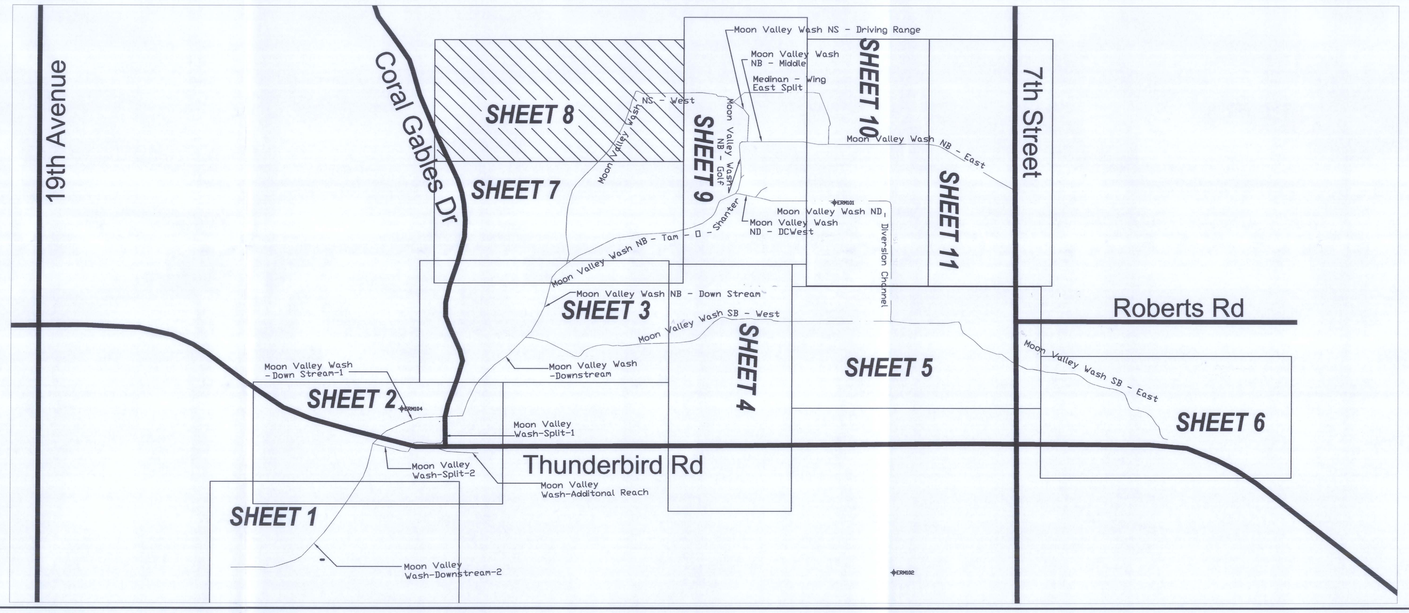
CHIEF ENGINEER AND GENERAL MANAGER

SHEET 7 OF 11

Flight Data for Topographic Mapping: 11/11/04
1-foot Contour Interval
Scale: 1" = 100'

Control Datums: Horizontal - Maricopa County GDACS NAD83 (1992)
Vertical - Maricopa County GDACS (NGVD29)

MAP INDEX



FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

MOON VALLEY WASH FLOODPLAIN DELINEATION STUDY

CONTRACT FCD 2004C022

LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- EXISITING 100-YR FLOODPLAIN BOUNDARY
- 2.00 — HYDRAULIC BASE LINE WITH RIVER MILE
- River Sta. / Discharge (cfs) / FP ELEV / Velocity (ft/s) — CROSS SECTION
- x 1252.7 — SPOT ELEVATION
- 1260 — BASE FLOOD ELEVATIONS
- ZONE AE — ZONE DESIGNATIONS
- ERM101 — ERM LOCATION
- 17 16 / 20 21 — SECTION CORNER

N

SCALE: 1" = 100'

0 100 200 300

ELEVATION REFERENCE MARKS

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SHEET 8 OF 11

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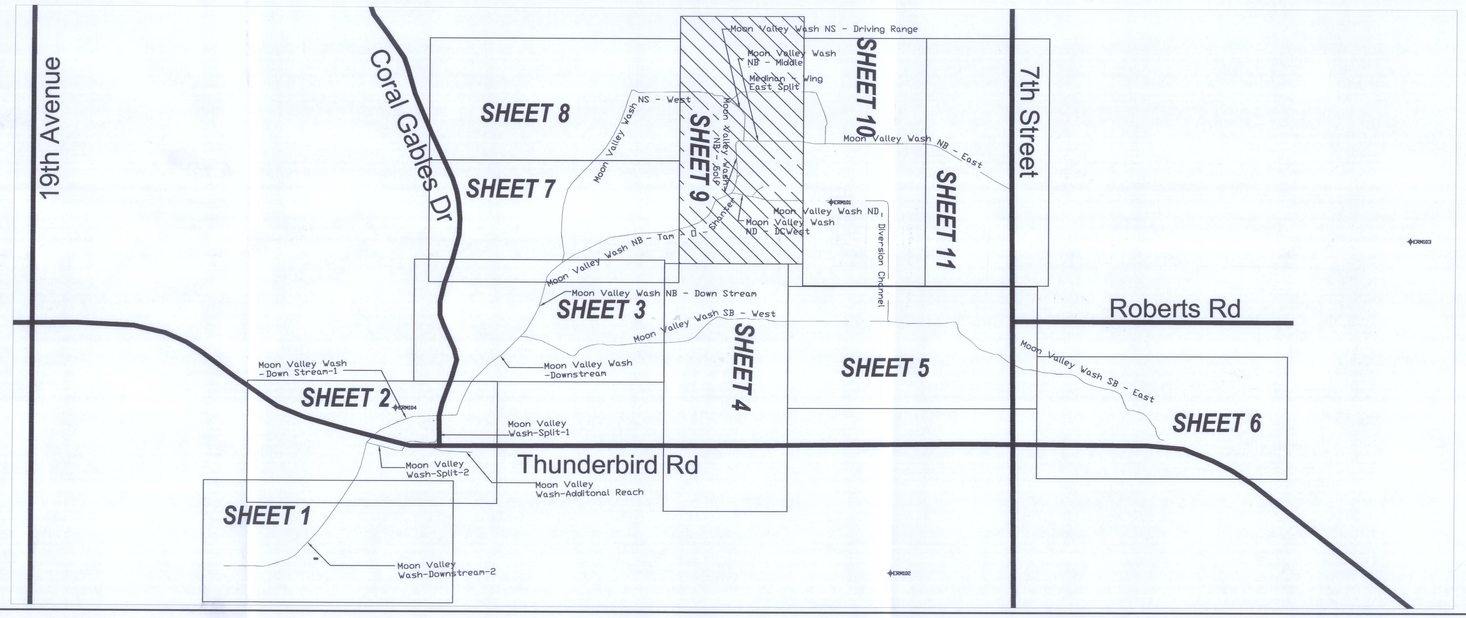

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

MOON VALLEY WASH FLOODPLAIN DELINEATION STUDY

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SHEET 9 OF 11

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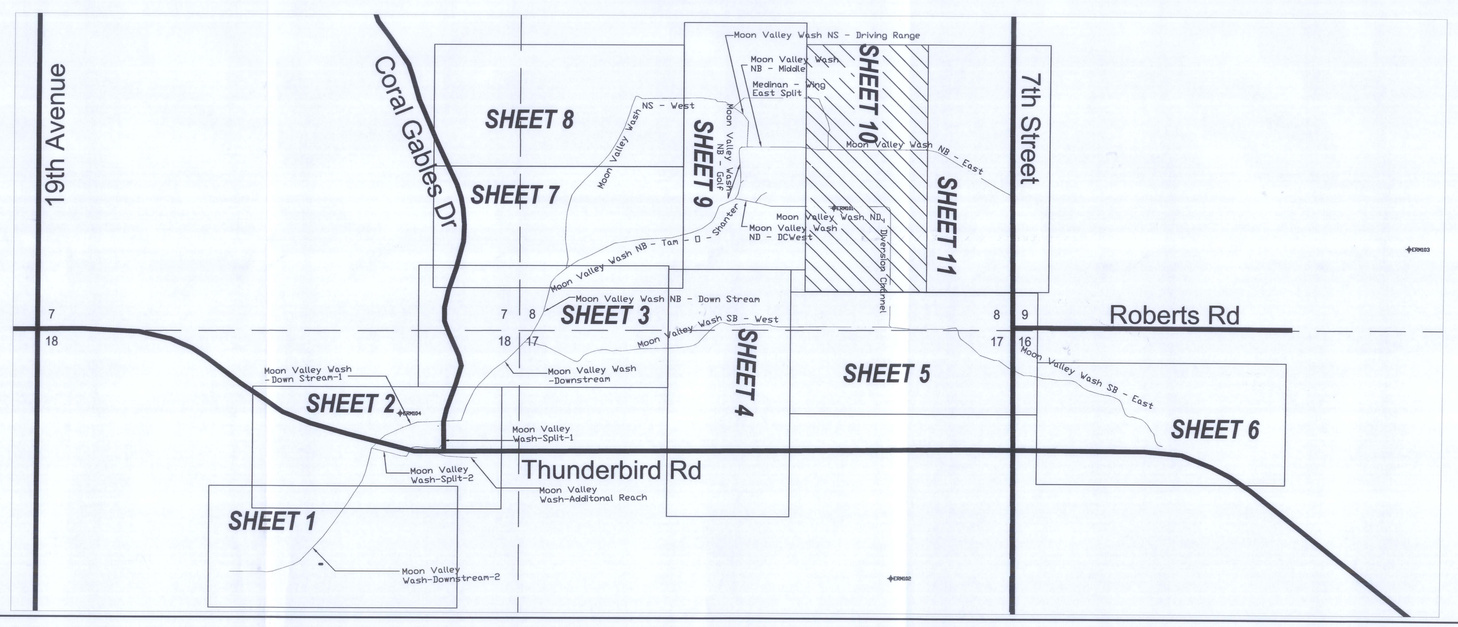

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

MOON VALLEY WASH FLOODPLAIN DELINEATION STUDY

CONTRACT FCD 2004C022

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ELEVATION REFERENCE MARKS

LABEL	NORTHING	EASTING	ELEV.	DESCRIPTION
ERM101	652780.927	951251.297	1349.246	Flood Control District of Maricopa County Brass flush w/concrete, 260'± southerly of intersetection of Canterbury Drive and Medinan Drive, east of pavement, 4'± southeast of power pole

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SHEET 10 OF 11

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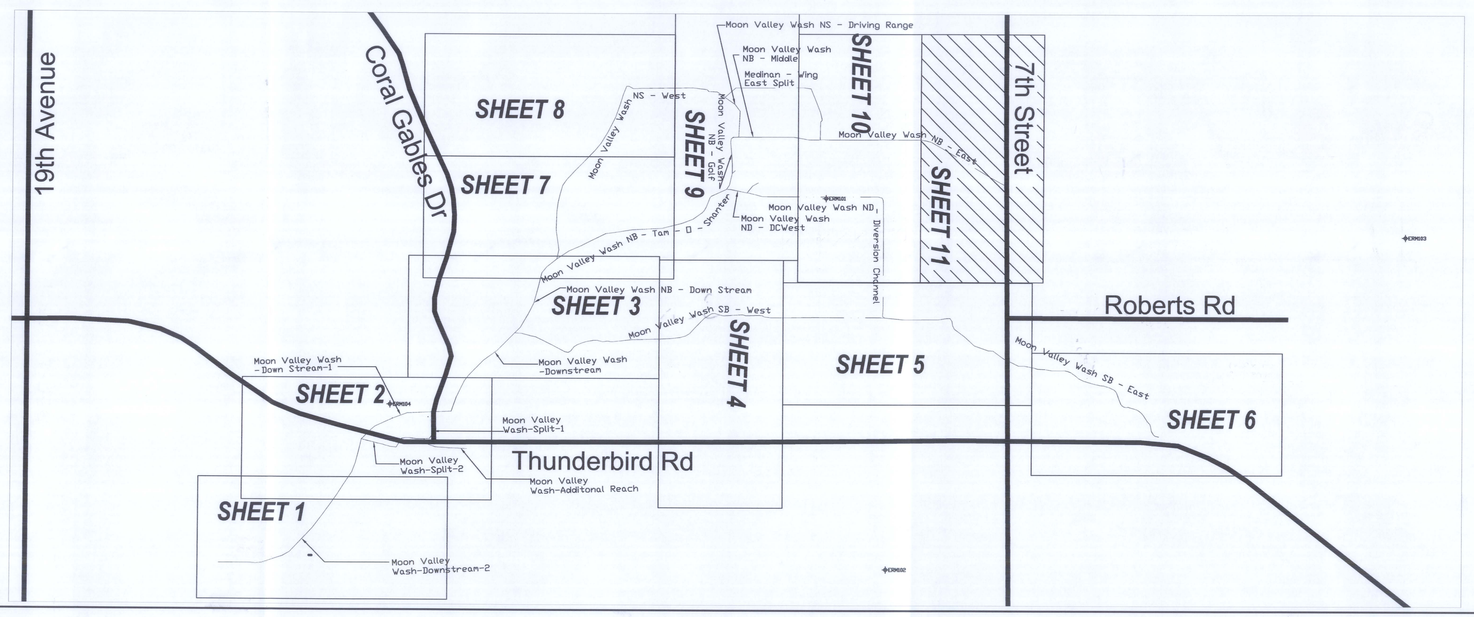

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SHEET 11 OF 11