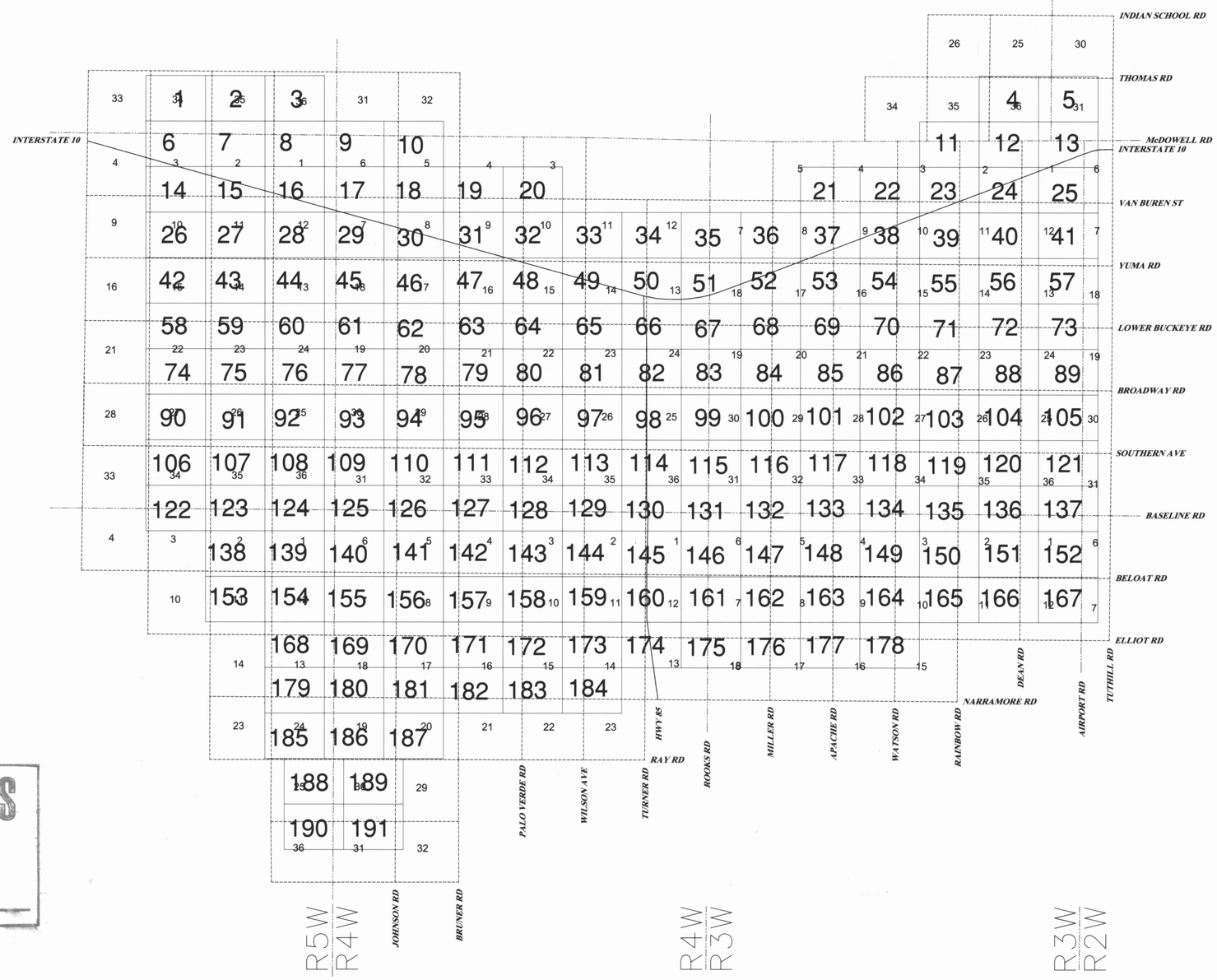
BUCKEYE/SUN VALLEY
AREA DRAINAGE MASTER STUDY



CENTRAL FILES
DRAWER # 322

Buckeye / Sun Valley Area Drainage Master Study Topos

Kenney Aerial Mapping Inc.

FCD 2001C020 2003

Sheets 1-50

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

"FCD CONTRACT # 2001C020"

LEGEND

----·---·---·	TOWNSHIP/RANGE LINE
----------	SECTION LINE
————	MAJOR HIGHWAY
————	MAP SHEET INDEX
40	MAP SHEET NO.
T1N	TOWNSHIP/RANGE TEXT
3	SECTION NUMBER
INTERSTATE 10	STREET NAME

N

BYRON JOHNSON 33313 7-25-03 REGISTERED LAND SURVEYOR ARIZONA U.S.A.

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone
Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.
FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY	DATE
DESIGN	–	–
DESIGN CHK.	–	–
PLANS	–	–
PLANS CHK.	–	–

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE
CHIEF ENGINEER AND GENERAL MANAGER

SUBMITTED BY: DATE

COVER SHEET

N 902000

N 901000

N 900000

N. 899000

E 442000

E 443000

E 444000

E 445000

E 446000

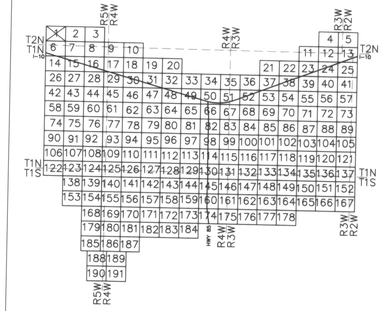
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"

LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- 1110 INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- 21.4 SPOT ELEVATION
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FH FIRE HYDRANT
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- V VALVE
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE



0 200' 400' 600'

SCALE: 1" = 200'

CONTOUR INTERVAL = 2 FEET

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Hulitt-Zollars & Project Engineering Consultants.

SIMON E. JOHNSON 7-25-03

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.

FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY	DATE
DESIGN:	–	–
DESIGN CHK:	–	–
PLANS:	–	–
PLANS CHK:	–	–

SUBMITTED BY: DATE:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

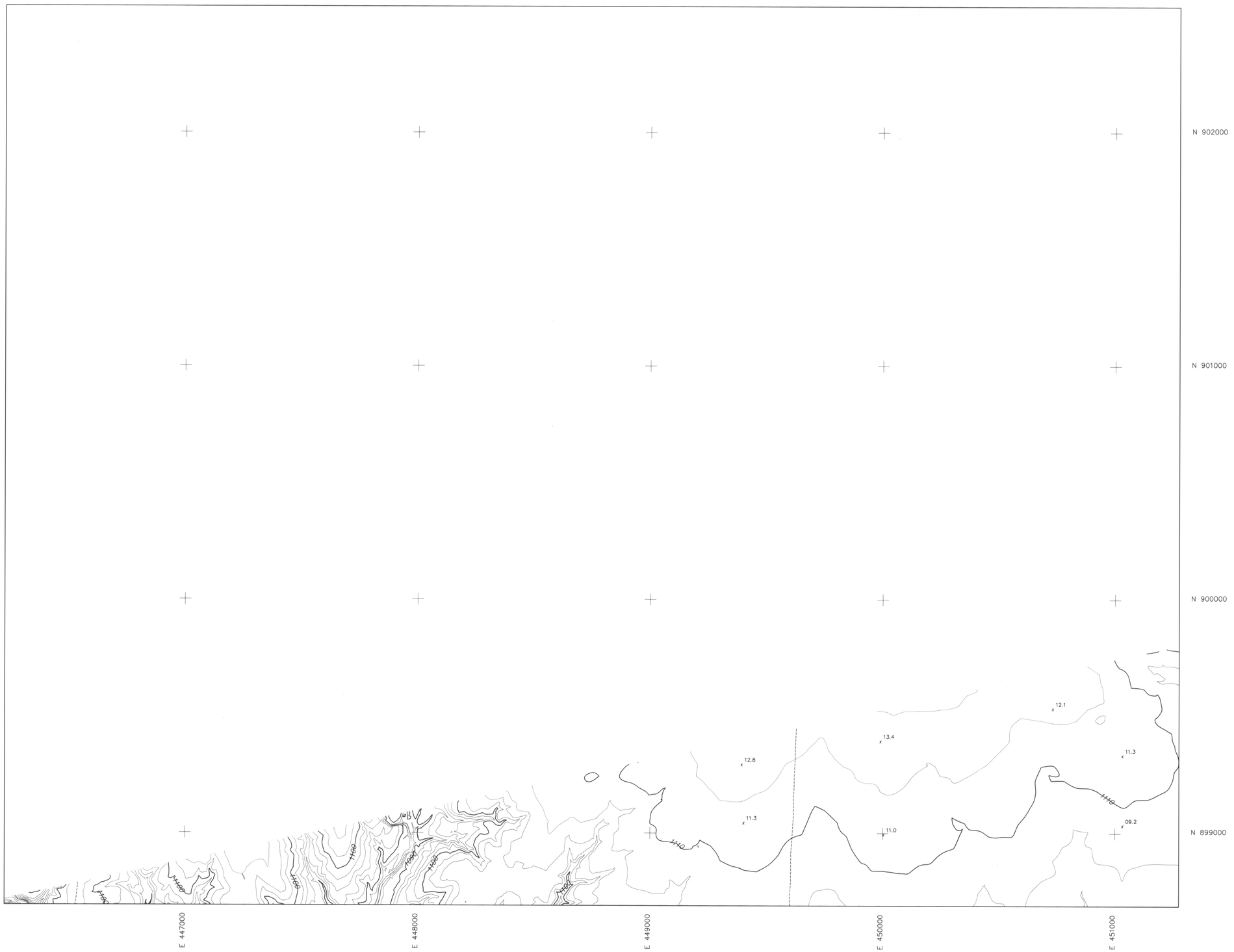
CHIEF ENGINEER AND GENERAL MANAGER

SHEET 1 OF 191

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

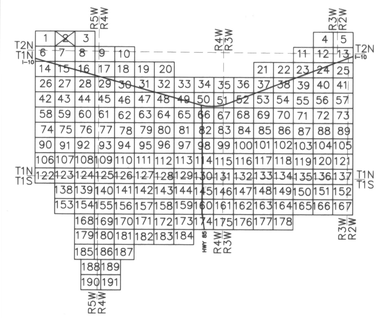
BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"



LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- 1110 INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- x 21.4 SPOT ELEVATION
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FH FIRE HYDRANT
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- V VALVE
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE



0 200' 400' 600'

SCALE: 1" = 200'

CONTOUR INTERVAL = 2 FEET

BYRON E. JOHNSON 33313 REGISTERED LAND SURVEYOR 7-25-03

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Hultt-Zollars & Project Engineering Consultants.

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.

FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY	DATE
DESIGN	–	–
DESIGN CHK	–	–
PLANS	–	–
PLANS CHK	–	–

SUBMITTED BY: DATE

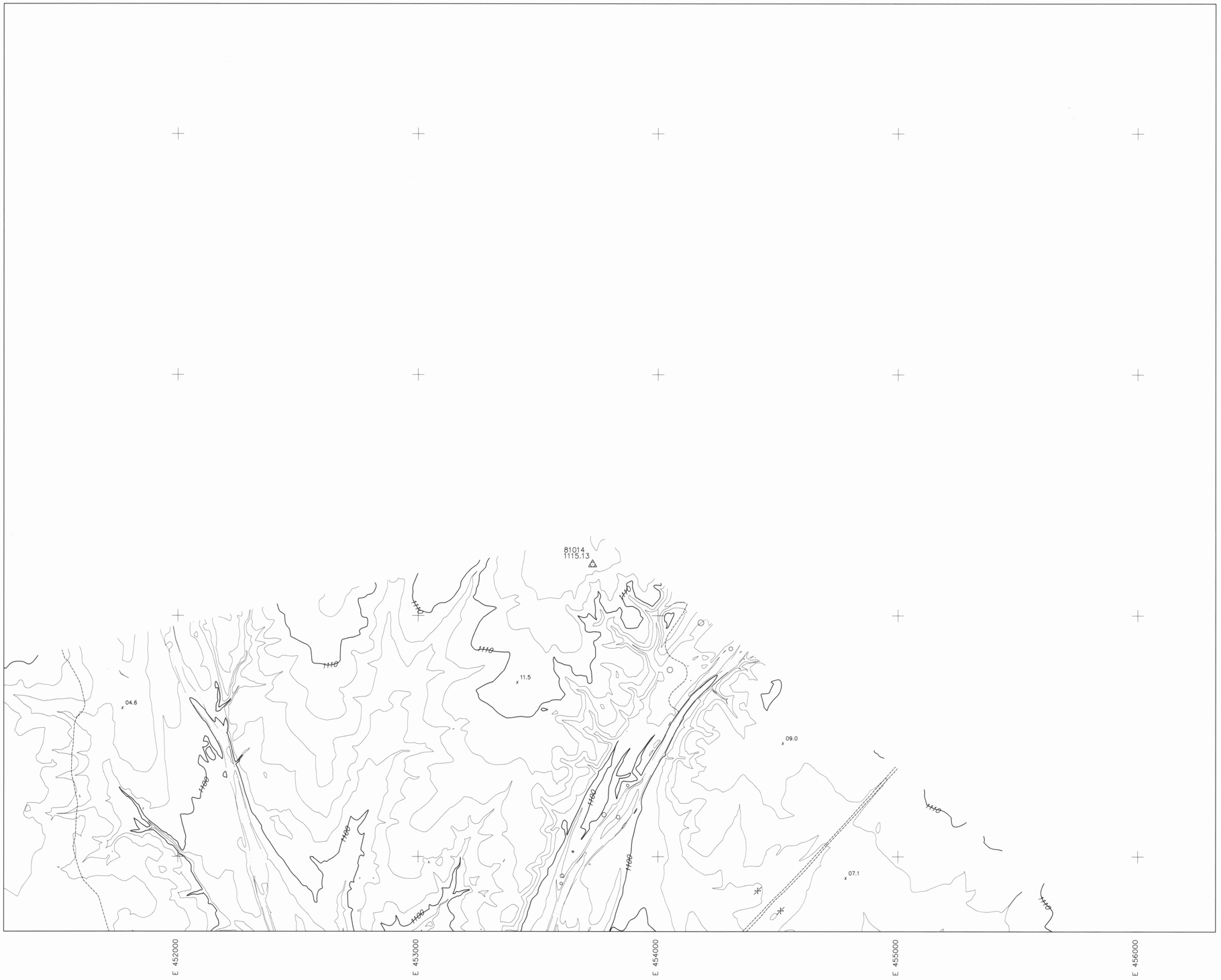
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 2 OF 191



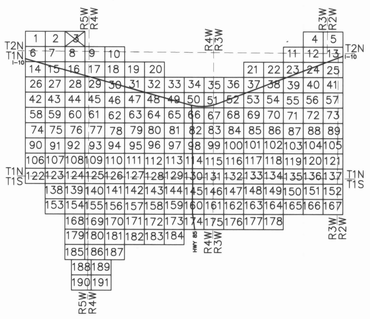
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"

LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- SPOT ELEVATION
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FIRE HYDRANT
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE



0 200' 400' 600'

SCALE: 1" = 200'

CONTOUR INTERVAL = 2' FEET

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Hultt-Zollars & Project Engineering Consultants.

7-25-03

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.

FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY	DATE
DESIGN	–	–
DESIGN CHK.	–	–
PLANS	–	–
PLANS CHK.	–	–

SUBMITTED BY: DATE:

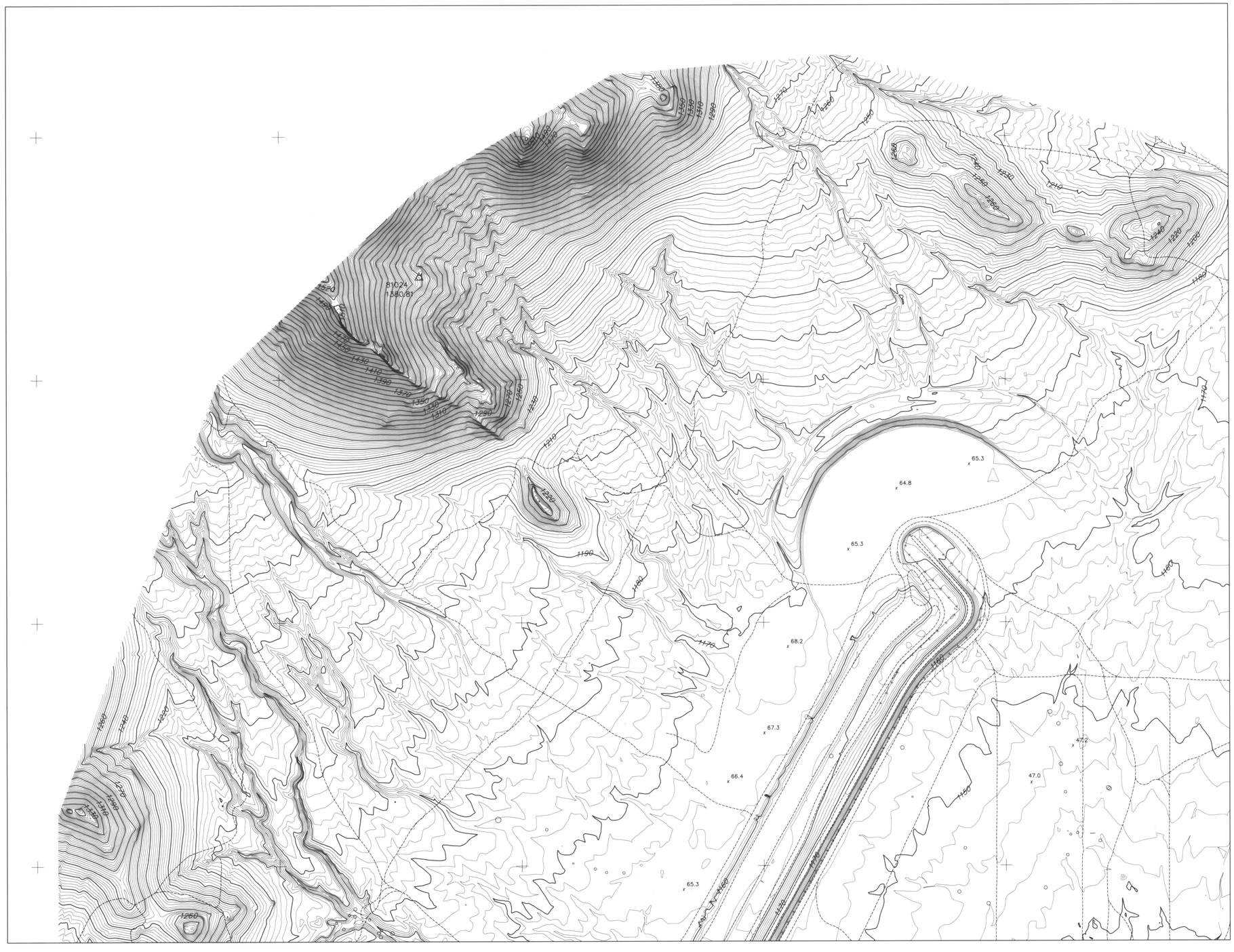
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 3 OF 191



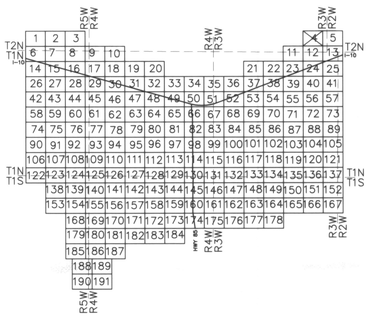
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"

LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- SPOT ELEVATION
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FIRE HYDRANT
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE



0 200' 400' 600'

SCALE: 1" = 200'

CONTOUR INTERVAL = 2 FEET

REGISTERED LAND SURVEYOR CERTIFICATE NO. 33313 BYRON E. JOHNSON

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Hulitt-Zollars & Project Engineering Consultants.

12-20-03

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.

FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY	DATE
DESIGN:	–	–
DESIGN CHK:	–	–
PLANS:	–	–
PLANS CHK:	–	–

SUBMITTED BY: DATE:

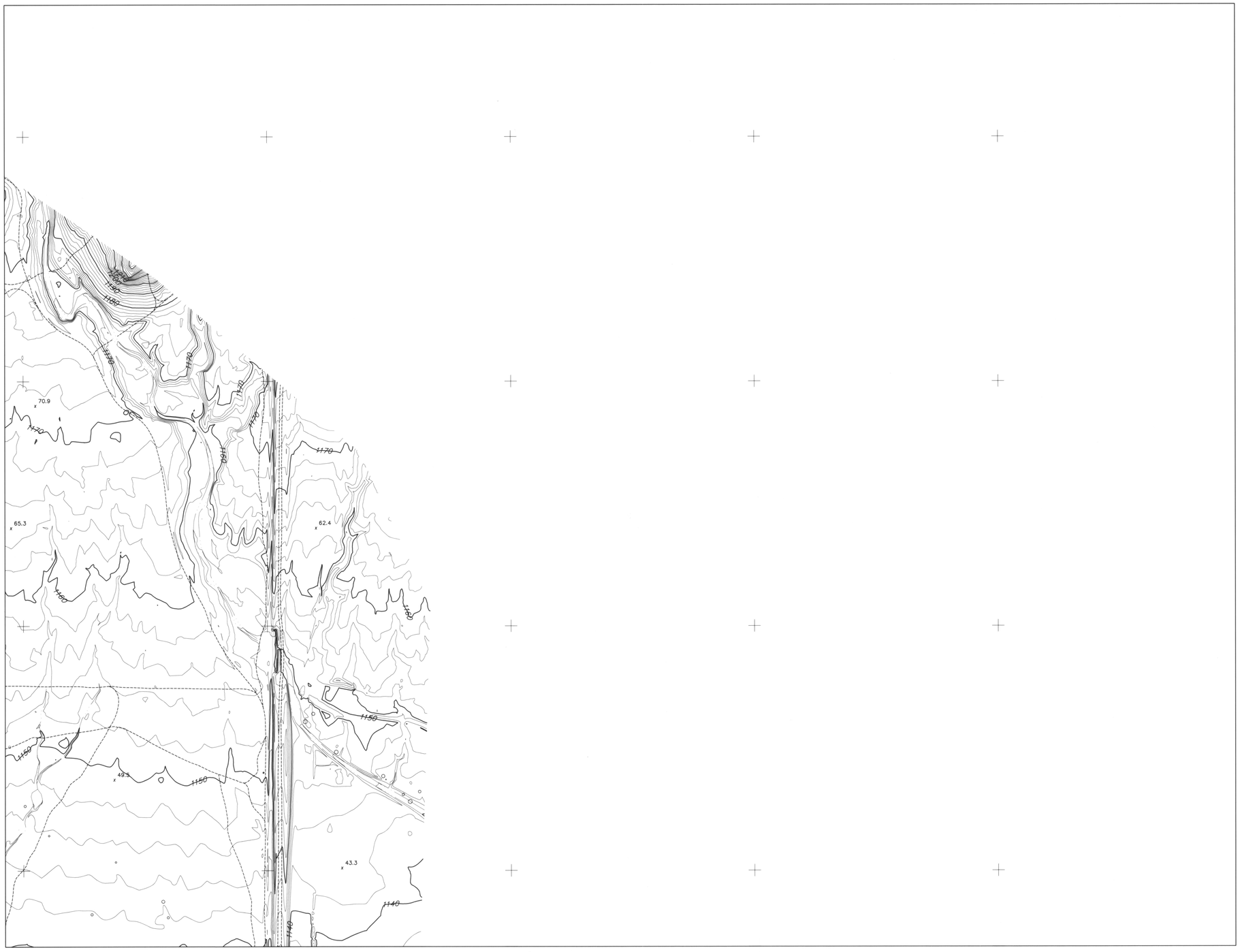
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 4 OF 191



FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"

LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- SPOT ELEVATION
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FIRE HYDRANT
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE

0 200' 400' 600'

SCALE: 1" = 200'

CONTOUR INTERVAL = 2 FEET

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Hultt-Zollars & Project Engineering Consultants.

33313 BYRON E. JOHNSON REGISTERED PROFESSIONAL ENGINEER

7-25-03

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.

FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY	DATE
DESIGN	–	–
DESIGN CHK.	–	–
PLANS	–	–
PLANS CHK.	–	–

SUBMITTED BY: DATE:

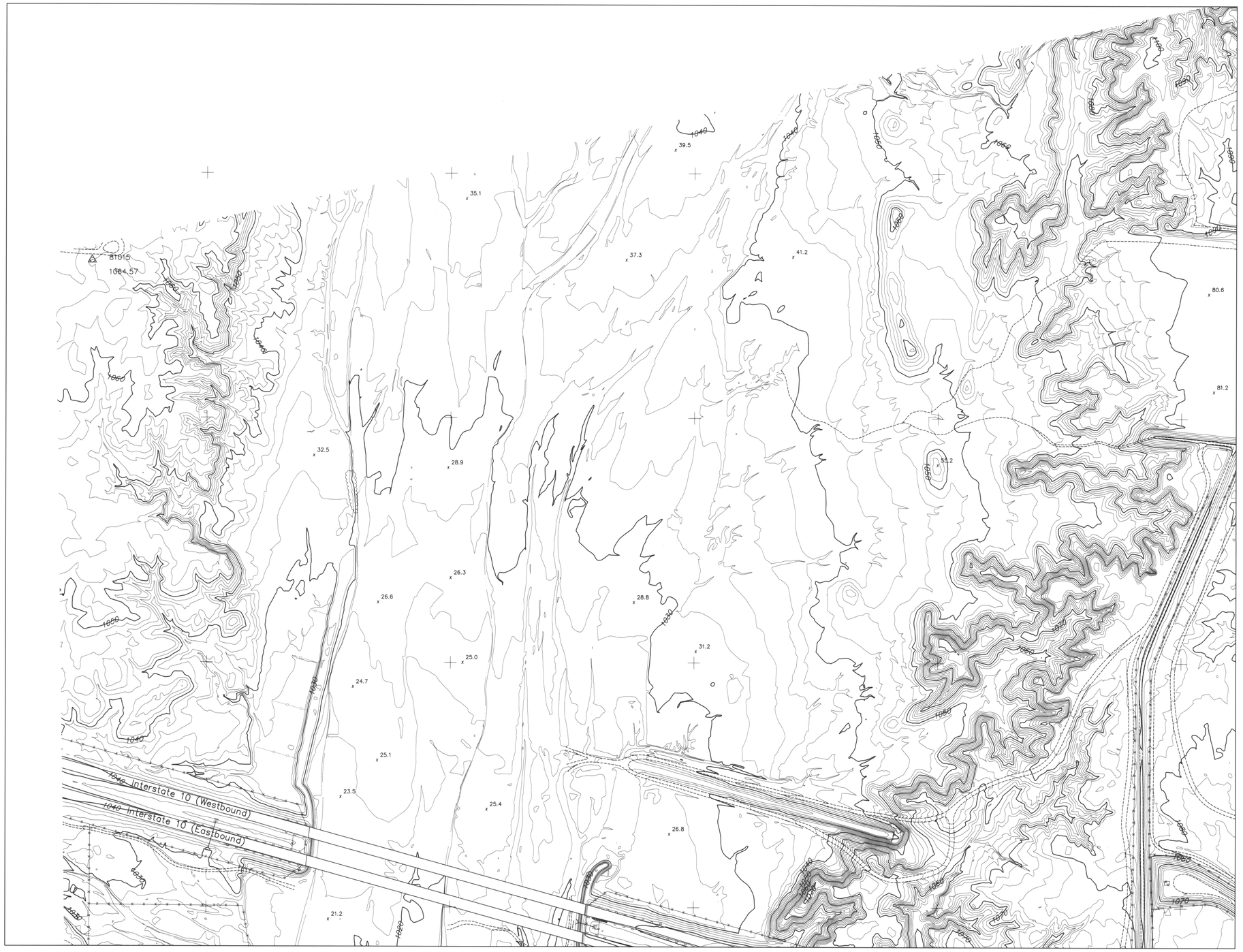
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 5 OF 191



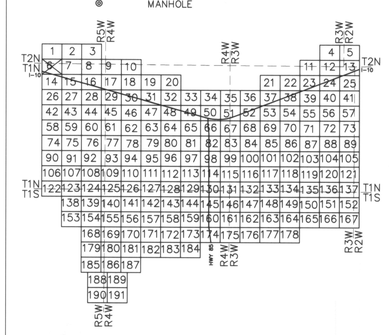
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"

LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- 1110 INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- 21.4 SPOT ELEVATION
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FIRE HYDRANT
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE



N

0 200' 400' 600'

SCALE: 1" = 200'

CONTOUR INTERVAL = 2 FEET

33315 BYRON E. JOHNSON 7-25-03 REGISTERED LAND SURVEYOR

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Hultt-Zollars & Project Engineering Consultants.

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.

FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY	DATE
DESIGN	–	–
DESIGN CHK	–	–
PLANS	–	–
PLANS CHK	–	–

SUBMITTED BY: DATE:

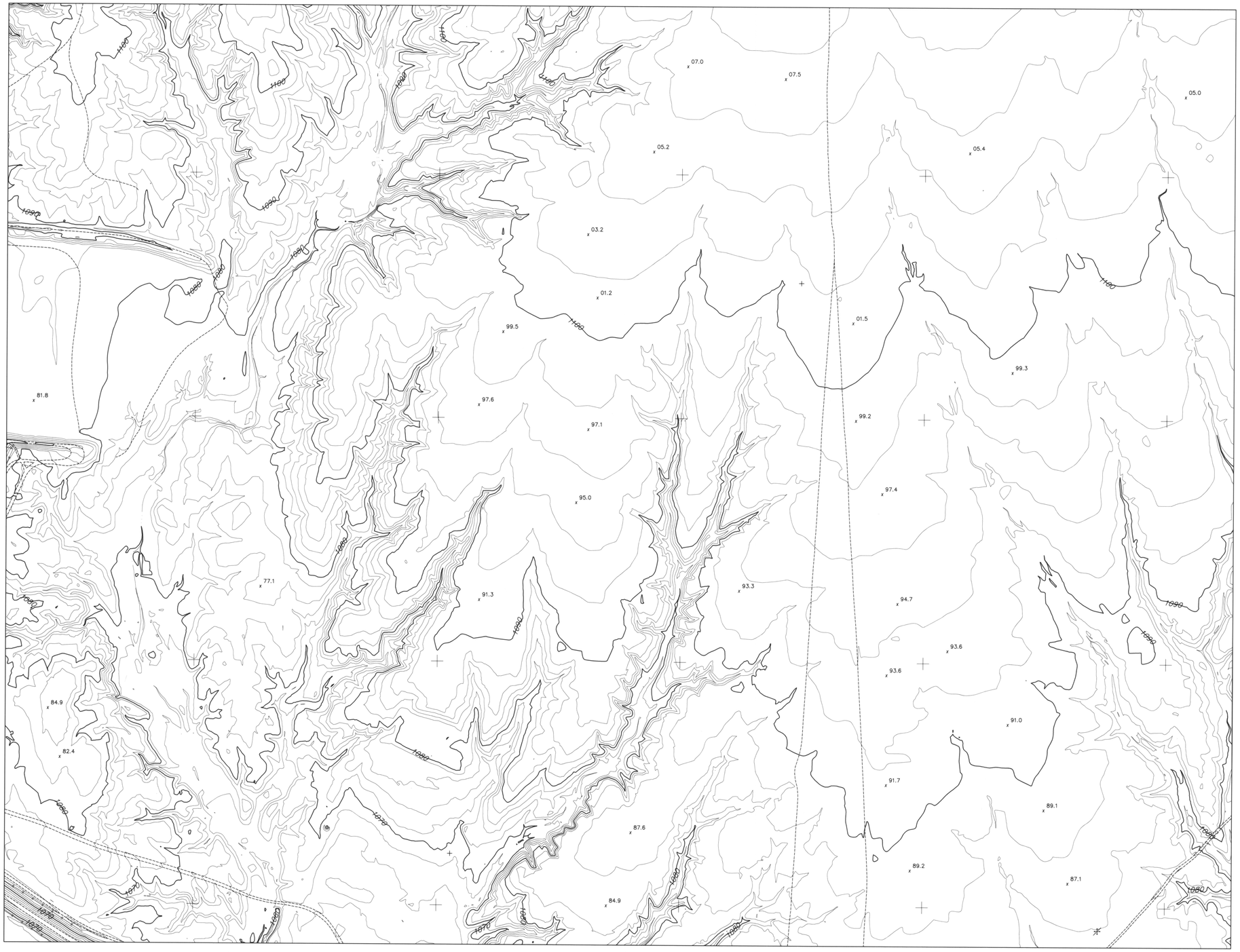
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE:

APPROVED BY: DATE:

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 6 OF 191



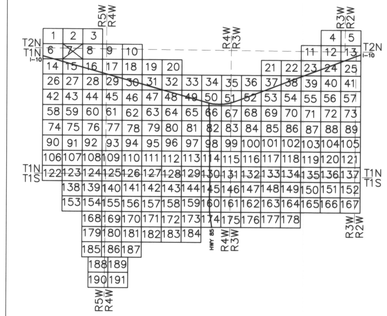
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"

LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- SPOT ELEVATION
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FIRE HYDRANT
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE



0 200' 400' 600'

SCALE: 1" = 200'

CONTOUR INTERVAL = 2 FEET

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Hultt-Zollars & Project Engineering Consultants.

33313 BYRON E. JOHNSON Registered Land Surveyor ARIZONA U.S.A. 7-25-03

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.

FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY:	DATE:
DESIGN:	–	–
DESIGN CHK.:	–	–
PLANS:	–	–
PLANS CHK.:	–	–

SUBMITTED BY: DATE:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 7 OF 191

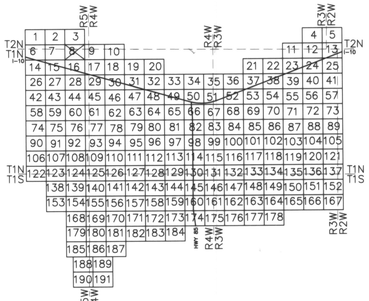
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"

LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- SPOT ELEVATION
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FIRE HYDRANT
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE



SCALE: 1" = 200'

CONTOUR INTERVAL = 2 FEET

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Hultt-Zollars & Project Engineering Consultants.

13313 BYRON E. [illegible] REGISTERED LAND SURVEYOR ARIZONA USA

7-25-03

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.

FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY	DATE
DESIGN:	–	–
DESIGN. CHK.	–	–
PLANS:	–	–
PLANS. CHK.	–	–

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

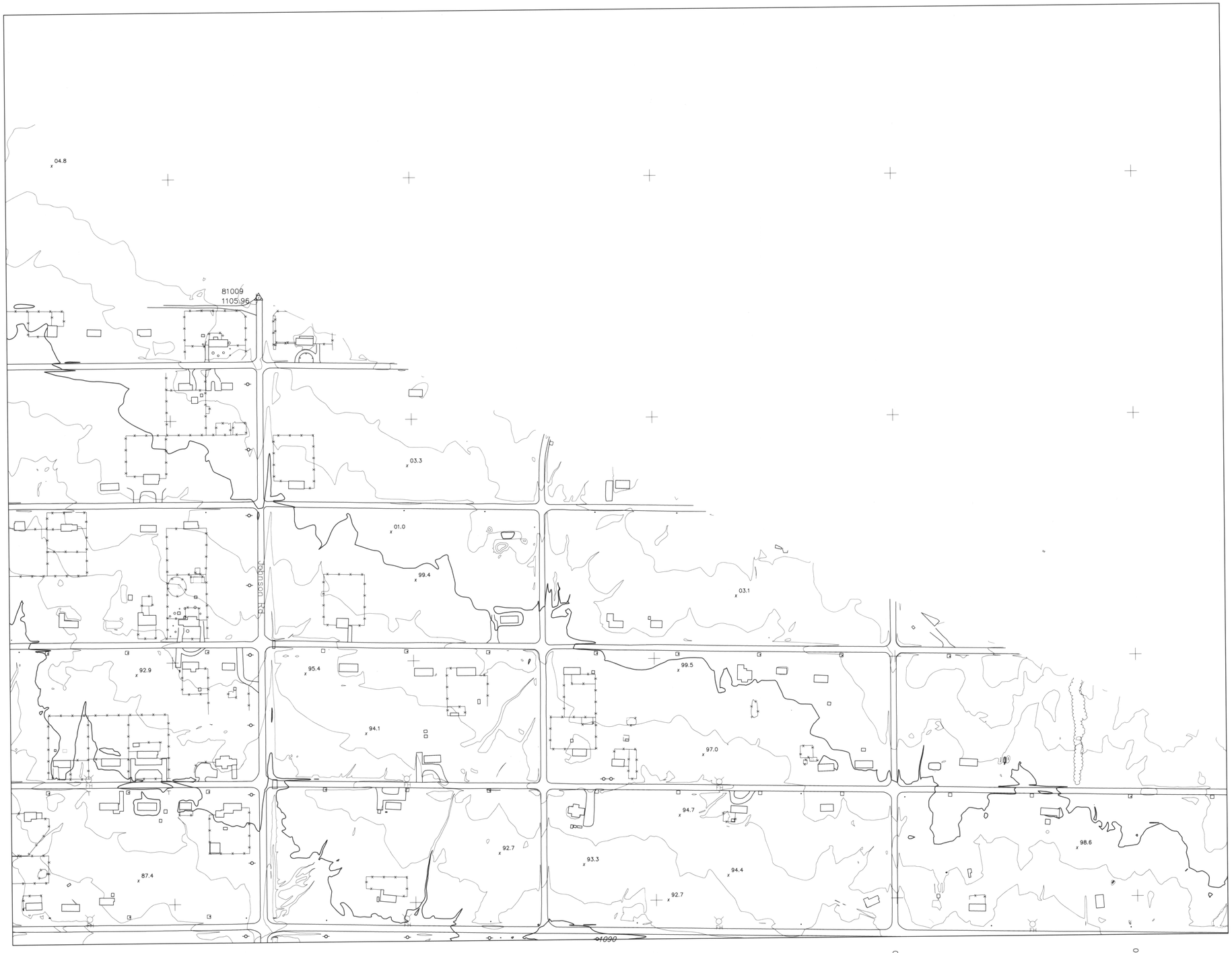
SUBMITTED BY: DATE:

RECOMMENDED BY: DATE:

APPROVED BY: DATE:

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 8 OF 191



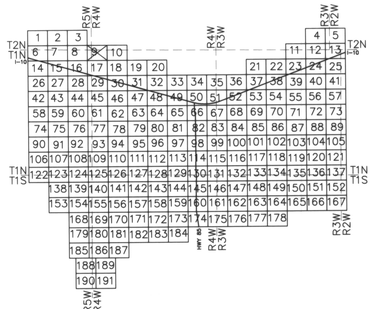
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"

LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- SPOT ELEVATION
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FIRE HYDRANT
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE



0 200' 400' 600'

SCALE: 1" = 200'

CONTOUR INTERVAL = 2 FEET

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Huitt-Zollars & Project Engineering Consultants.

33315
BYRON E.
JOHNSON
REGISTERED
LAND
SURVEYOR
7-25-03

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.
FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY	DATE
DESIGN:	–	–
DESIGN CHK:	–	–
PLANS:	–	–
PLANS CHK:	–	–

SUBMITTED BY: DATE:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

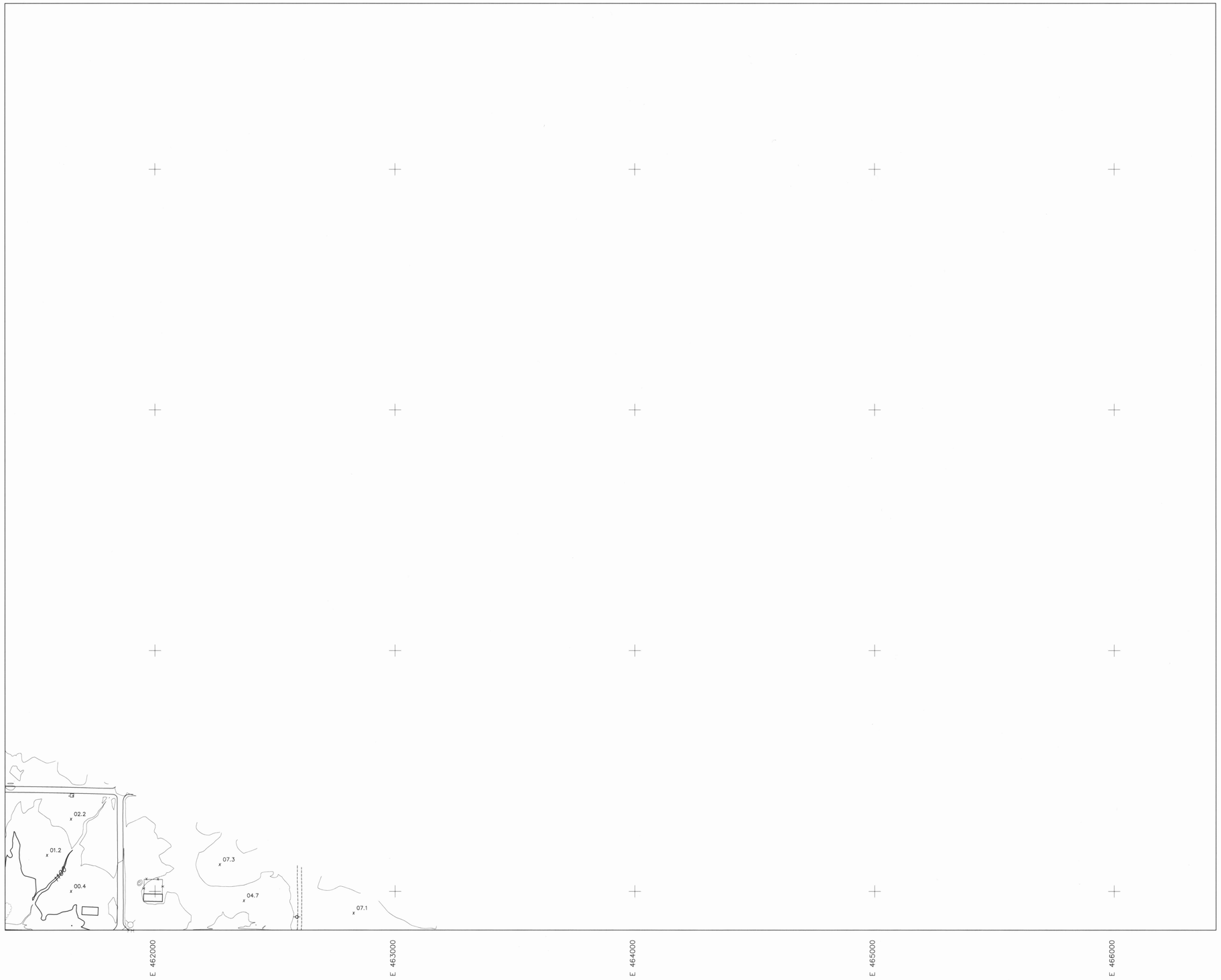
CHIEF ENGINEER AND GENERAL MANAGER

SHEET 9 OF 191

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

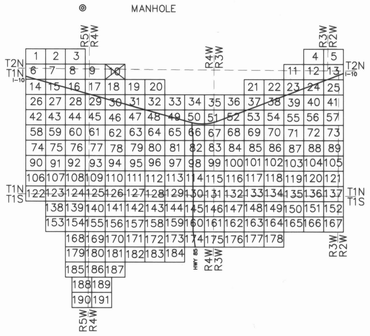
BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"



LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- SPOT ELEVATION (x 21.4)
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FIRE HYDRANT (FH)
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE (V)
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE



0 200' 400' 600'

SCALE: 1" = 200'

CONTOUR INTERVAL = 2 FEET

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Hulitt-Zollars & Project Engineering Consultants.

BYRON E. [illegible] 7-25-03

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.

FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY:	DATE
DESIGN:	–	–
DESIGN CHK:	–	–
PLANS:	–	–
PLANS CHK:	–	–

SUBMITTED BY: DATE:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

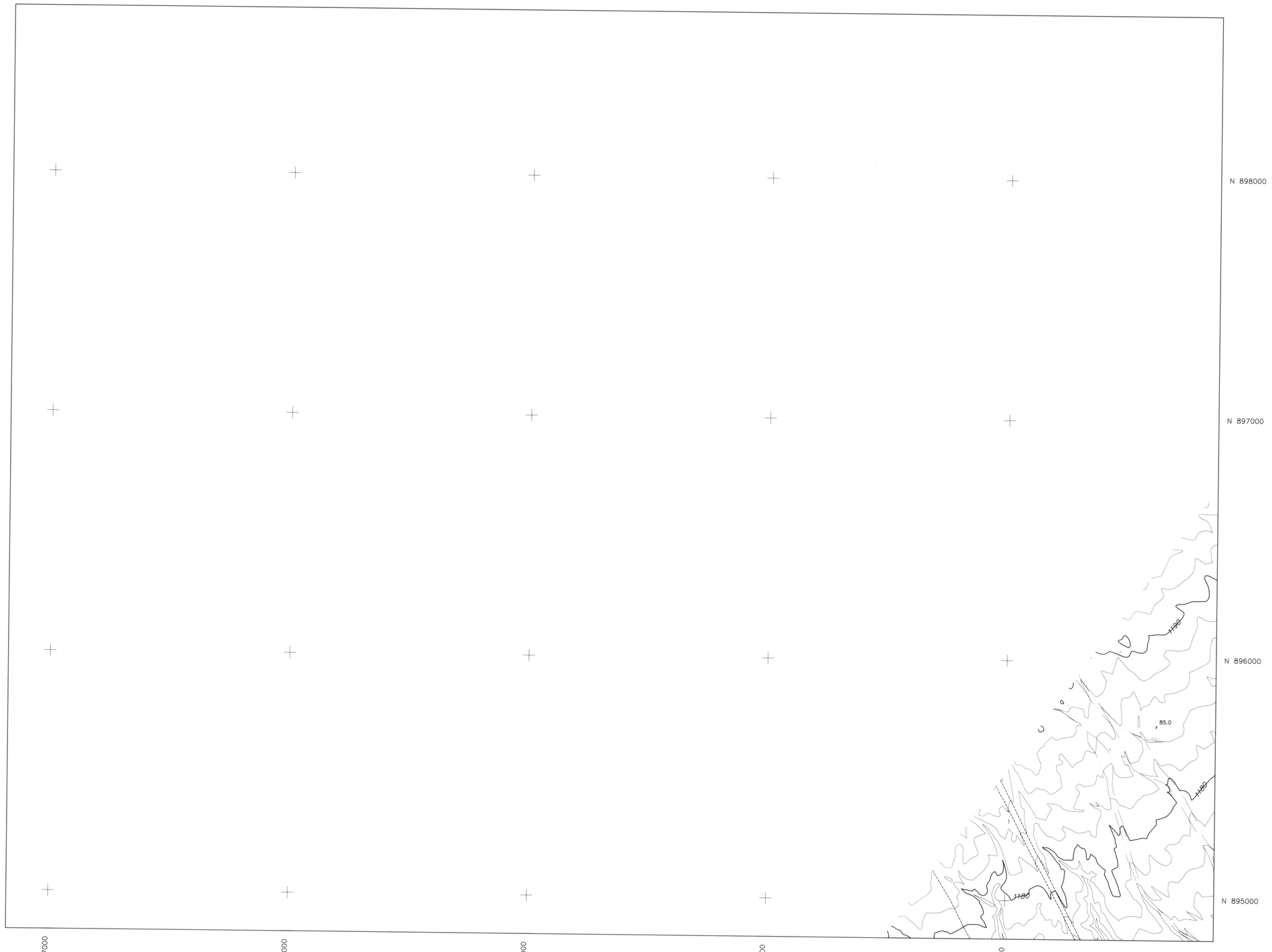
CHIEF ENGINEER AND GENERAL MANAGER

SHEET 10 OF 191

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

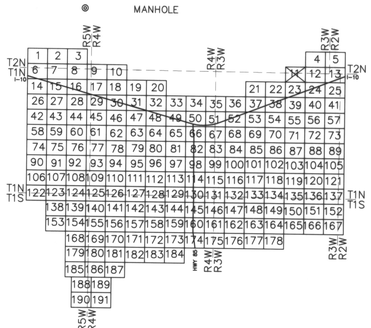
BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"



LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- SPOT ELEVATION
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FIRE HYDRANT
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE



N

0 200' 400' 600'

SCALE: 1" = 200'

CONTOUR INTERVAL = 2 FEET

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Huitt-Zollars & Project Engineering Consultants.

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.

FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY	DATE
DESIGN	–	–
DESIGN CHK.	–	–
PLANS	–	–
PLANS CHK.	–	–

SUBMITTED BY: DATE

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 11 OF 191

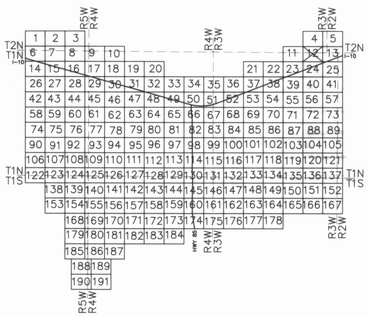
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"

LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- 1110 INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- 21.4 SPOT ELEVATION
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FH FIRE HYDRANT
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE



N

0 200' 400' 600'

SCALE: 1" = 200'

CONTOUR INTERVAL = 2 FEET

REGISTERED LAND SURVEYOR
CERTIFICATE NO.
33353
BYRON E. JOHNSON

12-20-03

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Hultt-Zollars & Project Engineering Consultants.

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.

FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY	DATE
DESIGN	–	–
DESIGN CHK	–	–
PLANS	–	–
PLANS CHK	–	–

SUBMITTED BY: DATE:

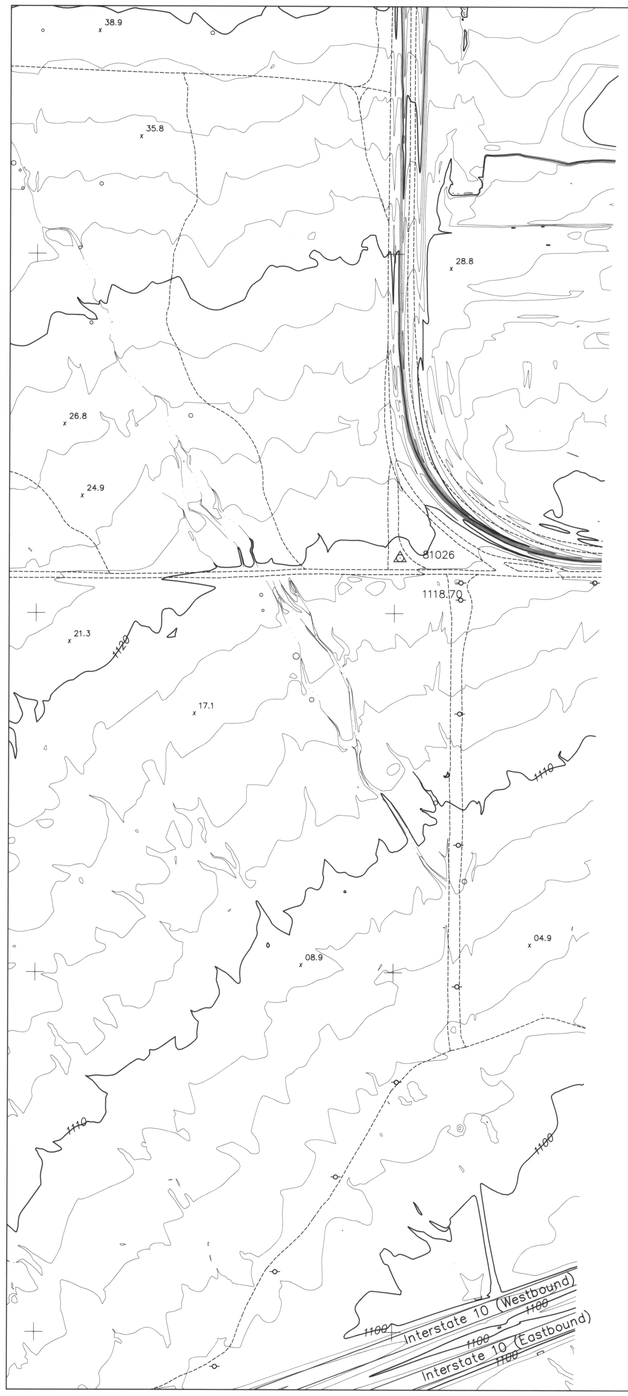
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 12 OF 191



N 898000
N 897000
N 896000
N 895000

E 517000 E 518000 E 519000 E 520000 E 521000 E 522000

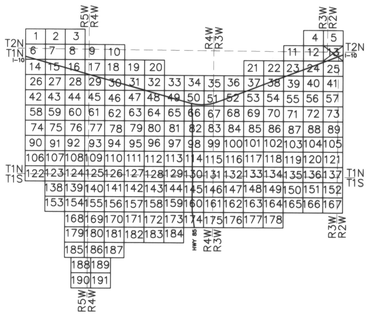
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"

LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- SPOT ELEVATION
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FIRE HYDRANT
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE



0 200' 400' 600'

SCALE: 1" = 200'

CONTOUR INTERVAL = 2 FEET

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Huitt-Zollars & Project Engineering Consultants.

BYRON E. JONES 7-25-03

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.

FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY:	DATE
DESIGN:	–	–
DESIGN. CHK.:	–	–
PLANS:	–	–
PLANS. CHK.:	–	–

SUBMITTED BY: DATE:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 13 OF 191

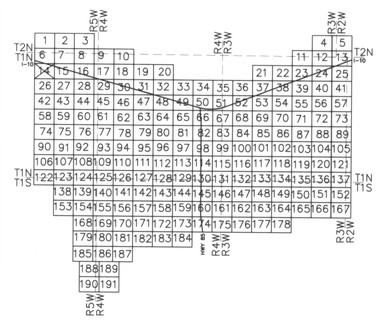
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"

LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- SPOT ELEVATION
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FIRE HYDRANT
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE



0 200' 400' 600'

SCALE: 1" = 200'

CONTOUR INTERVAL = 2 FEET

ARIZONA LAND SURVEYOR
CERTIFICATE NO.
33313
BYRON E. JOHNSON

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Hultt-Zollars & Project Engineering Consultants.

12-10-03

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.

FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY:	DATE:
DESIGN:	–	–
DESIGN CHK:	–	–
PLANS:	–	–
PLANS CHK:	–	–

SUBMITTED BY: DATE:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE:

APPROVED BY: DATE:

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 14 OF 191

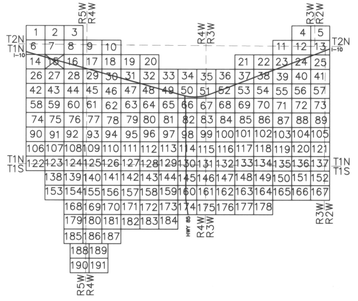
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"

LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- SPOT ELEVATION
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FIRE HYDRANT
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE



0 200' 400' 600'

SCALE: 1" = 200'

CONTOUR INTERVAL = 2 FEET

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Hulitt-Zollars & Project Engineering Consultants.

12-20-03

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.

FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY	DATE
DESIGN:	–	–
DESIGN CHK:	–	–
PLANS:	–	–
PLANS CHK:	–	–

SUBMITTED BY: DATE

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 15 OF 191

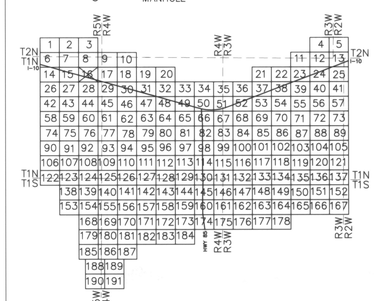
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"

LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- SPOT ELEVATION
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FIRE HYDRANT
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE



N

0 200' 400' 600'

SCALE: 1" = 200'

CONTOUR INTERVAL = 2 FEET

REGISTERED LAND SURVEYOR CERTIFICATE NO. 33313 BYRON E. DWIGGINS 12-20-02

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Hultt-Zollars & Project Engineering Consultants.

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.

FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY:	DATE:
DESIGN	–	–
DESIGN CHK.	–	–
PLANS	–	–
PLANS CHK.	–	–

SUBMITTED BY: DATE:

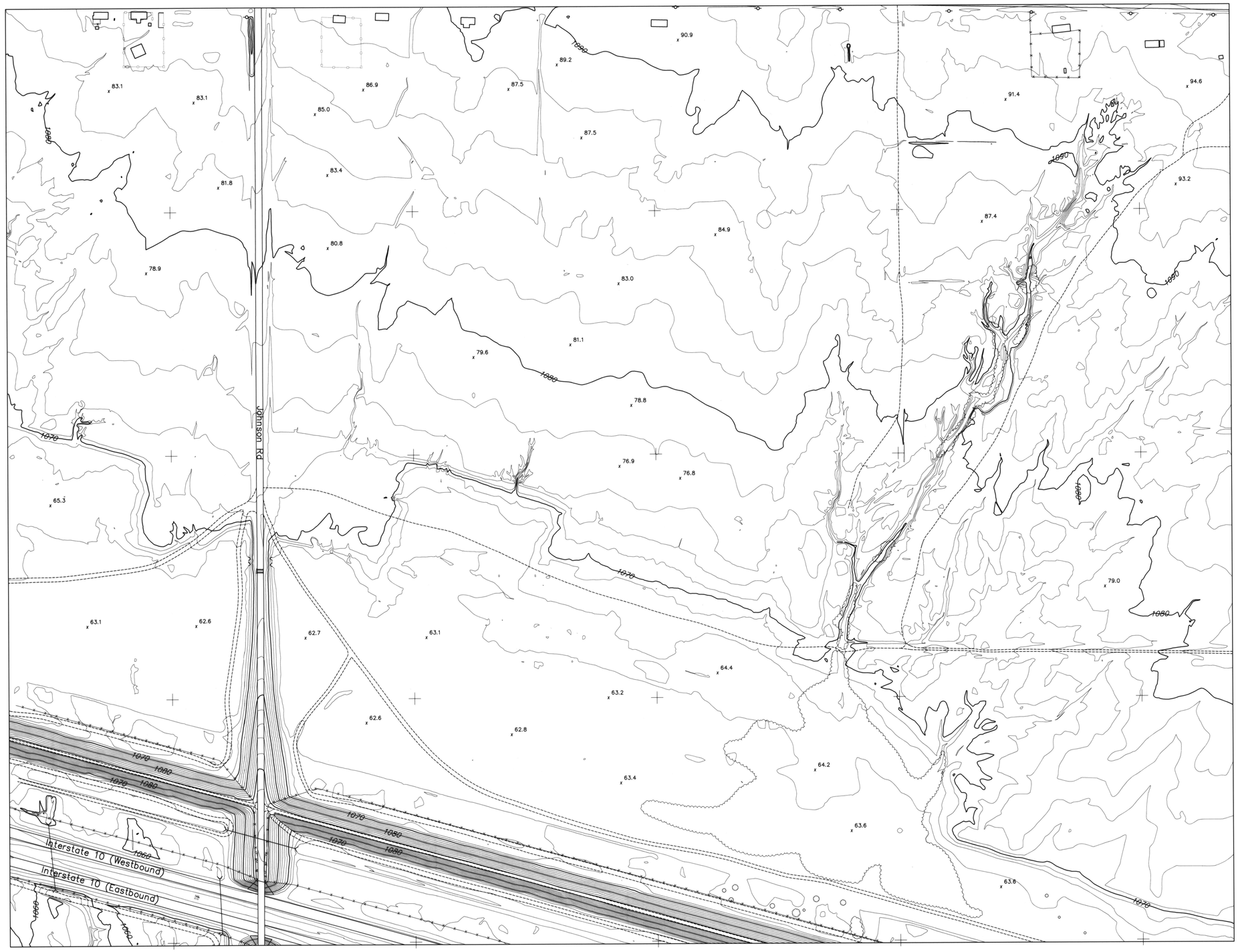
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE:

APPROVED BY: DATE:

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 16 OF 191



FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"

LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- SPOT ELEVATION
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FIRE HYDRANT
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE

0 200' 400' 600'

SCALE: 1" = 200'

CONTOUR INTERVAL = 2 FEET

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Hultt-Zollars & Project Engineering Consultants.

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.
FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY	DATE
DESIGN	–	–
DESIGN CHK.	–	–
PLANS	–	–
PLANS CHK.	–	–

SUBMITTED BY: DATE:

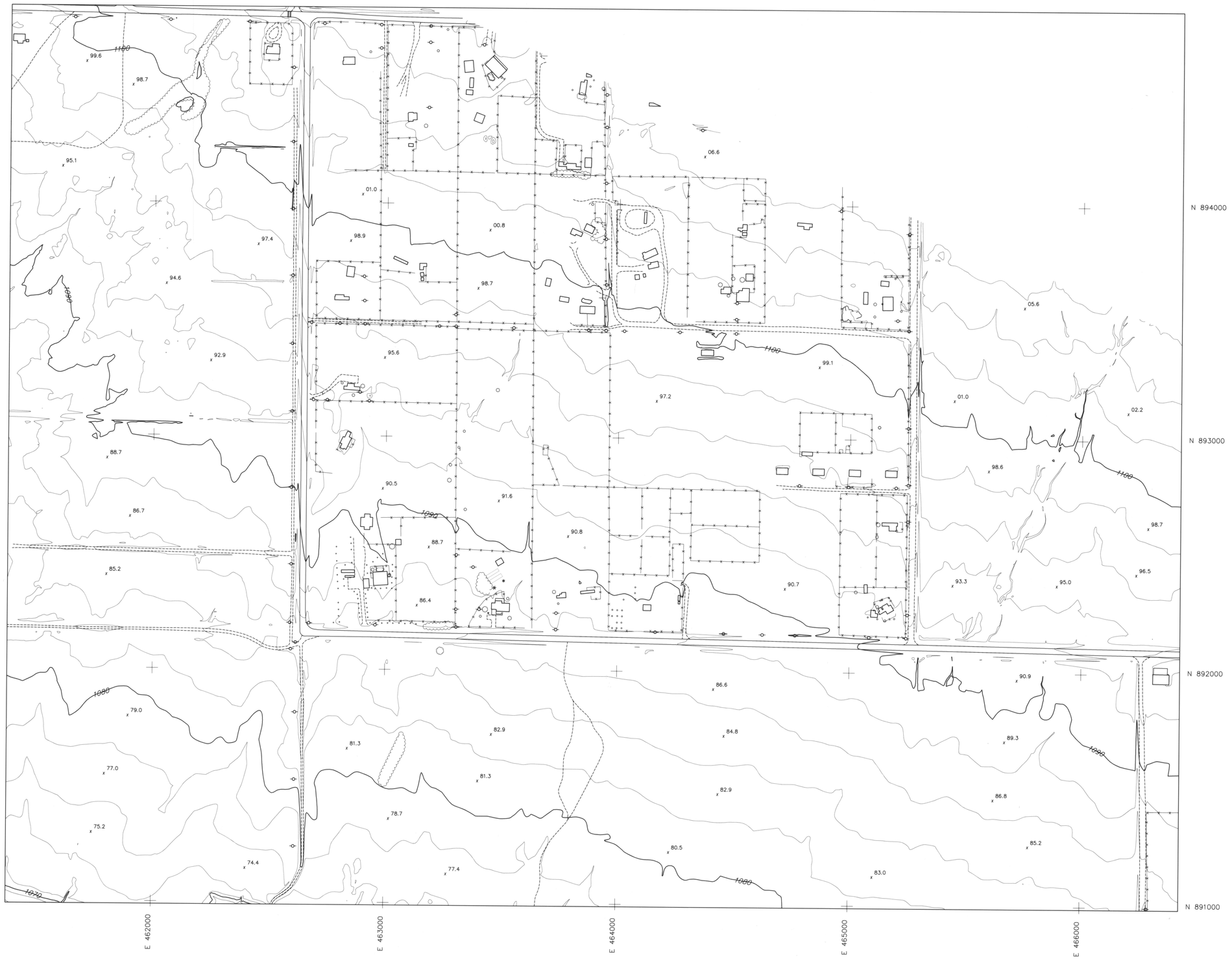
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 17 OF 191



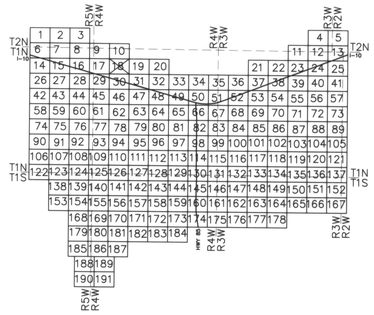
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"

LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- SPOT ELEVATION (x21.4)
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FIRE HYDRANT (FH)
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE (V)
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE



0 200' 400' 600'

SCALE: 1" = 200'

CONTOUR INTERVAL = 2 FEET

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Hultt-Zollars & Project Engineering Consultants.

BYRON E. JOHNSON 33315 REGISTERED PROFESSIONAL ENGINEER ARIZONA U.S.A. 7-25-03

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.

FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY:	DATE
DESIGN	–	–
DESIGN CHK.	–	–
PLANS	–	–
PLANS CHK.	–	–

SUBMITTED BY: DATE:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 18 OF 191

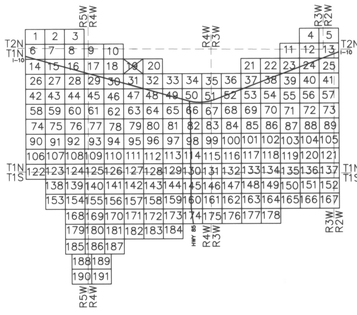
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"

LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- SPOT ELEVATION
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FIRE HYDRANT
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE



0 200' 400' 600'

SCALE: 1" = 200'

CONTOUR INTERVAL = 2 FEET

REGISTERED LAND SURVEYOR CERTIFICATE 32919 BYRON E. JOHNSON 12-20-02

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Hult-Zollars & Project Engineering Consultants.

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.

FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY	DATE
DESIGN	–	–
DESIGN CHK.	–	–
PLANS	–	–
PLANS CHK.	–	–

SUBMITTED BY: DATE:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 19 OF 191

N 894000

N 893000

N 892000

N 891000

E 472000

E 473000

E 474000

E 475000

E 476000

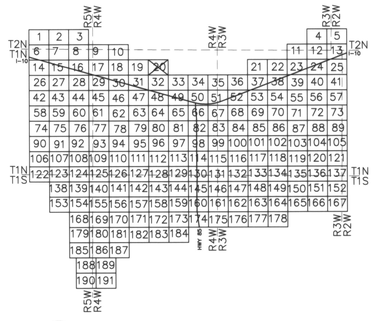
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"

LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- SPOT ELEVATION (21.4)
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FIRE HYDRANT
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE



0 200' 400' 600'

SCALE: 1" = 200'

CONTOUR INTERVAL = 2 FEET

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Hult-Zollars & Project Engineering Consultants.

BYRON E. SMOOT — 7-25-03

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.

FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY:	DATE
DESIGN	–	–
DESIGN CHK.	–	–
PLANS	–	–
PLANS CHK.	–	–

SUBMITTED BY: DATE:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 20 OF 191

N 894000

N 893000

N 892000

N 891000

E 497000 E 498000 E 499000 E 500000 E 501000

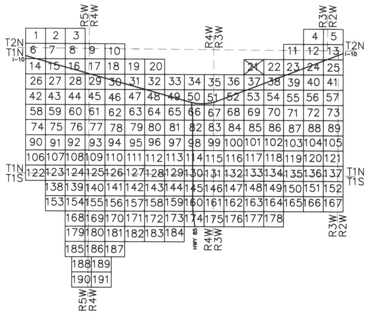
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"

LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- x 21.4 SPOT ELEVATION
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FH FIRE HYDRANT
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- V VALVE
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE



0 200' 400' 600'

SCALE: 1" = 200'

CONTOUR INTERVAL = 2 FEET

33313 BYRON E. JOHNSON 7-25-03

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Hultt-Zollars & Project Engineering Consultants.

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.

FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY:	DATE:
DESIGN:	–	–
DESIGN CHK:	–	–
PLANS:	–	–
PLANS CHK:	–	–

SUBMITTED BY: DATE:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

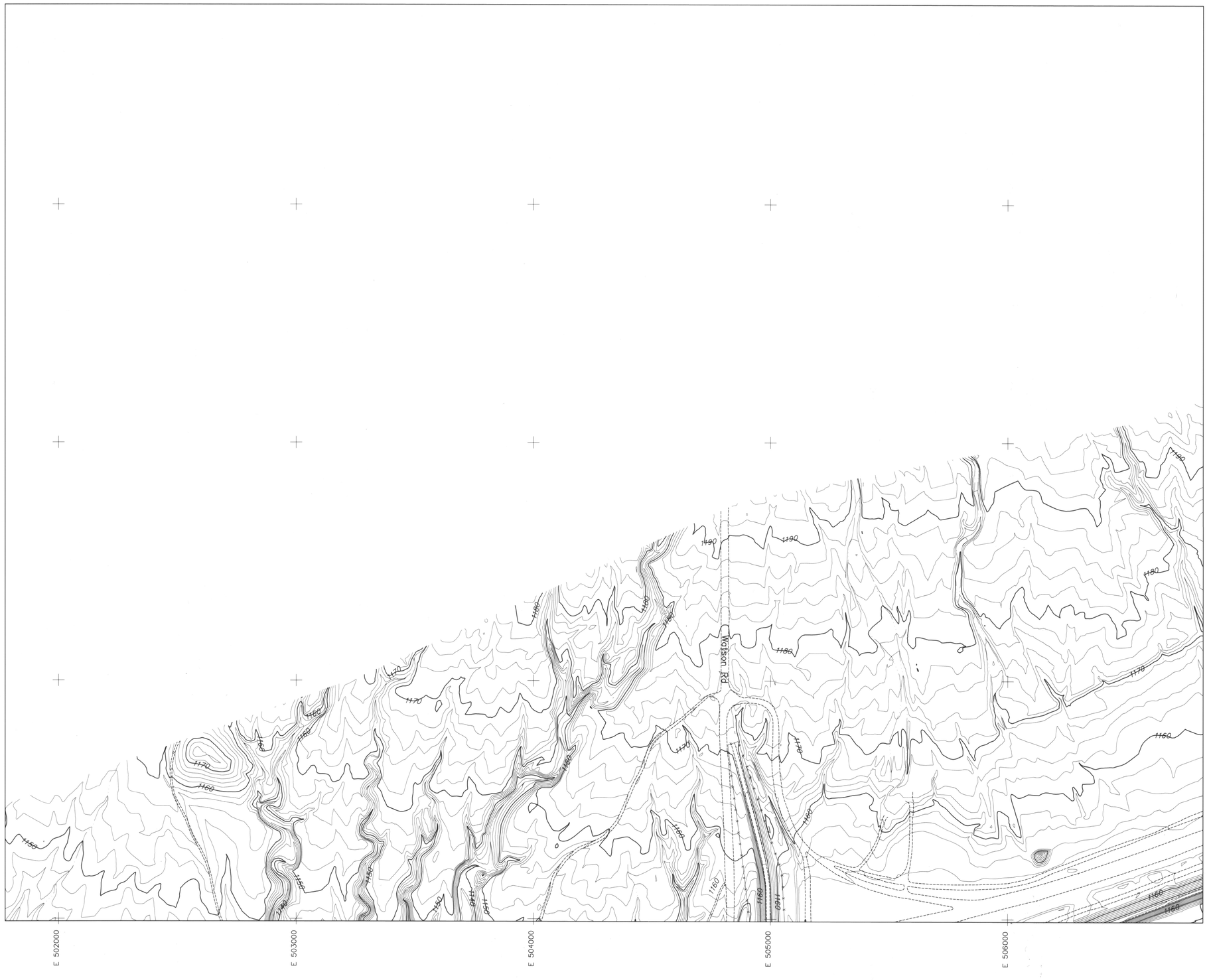
CHIEF ENGINEER AND GENERAL MANAGER

SHEET 21 OF 191

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

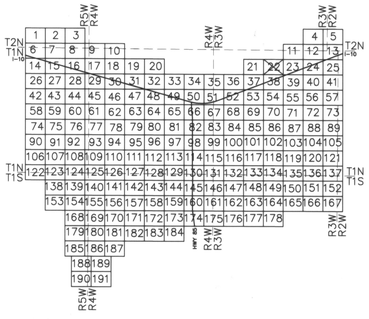
BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"



LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- SPOT ELEVATION
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FIRE HYDRANT
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE



0 200' 400' 600'

SCALE: 1" = 200'

CONTOUR INTERVAL = 2 FEET

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Huitt-Zollars & Project Engineering Consultants.

BYRON E. JOHNSON 33313 Registered Professional Land Surveyor ARIZONA

7-25-03

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.

FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY	DATE
DESIGN	–	–
DESIGN CHK	–	–
PLANS	–	–
PLANS CHK	–	–

SUBMITTED BY: DATE

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 22 OF 191

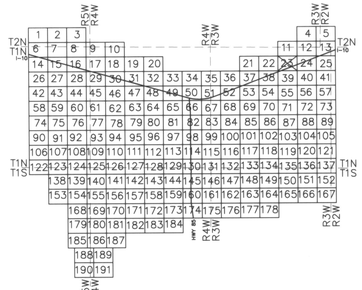
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"

LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- SPOT ELEVATION
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FIRE HYDRANT
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE



SCALE: 1" = 200'
CONTOUR INTERVAL = 2 FEET

0 200' 400' 600'

REGISTERED LAND SURVEYOR CERTIFICATE NO. 33313 BYRON E. JOHNSON

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Hultt-Zollars & Project Engineering Consultants.

12-20-03

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.
FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY:	DATE
DESIGN	–	–
DESIGN CHK.	–	–
PLANS	–	–
PLANS CHK.	–	–

SUBMITTED BY: DATE:

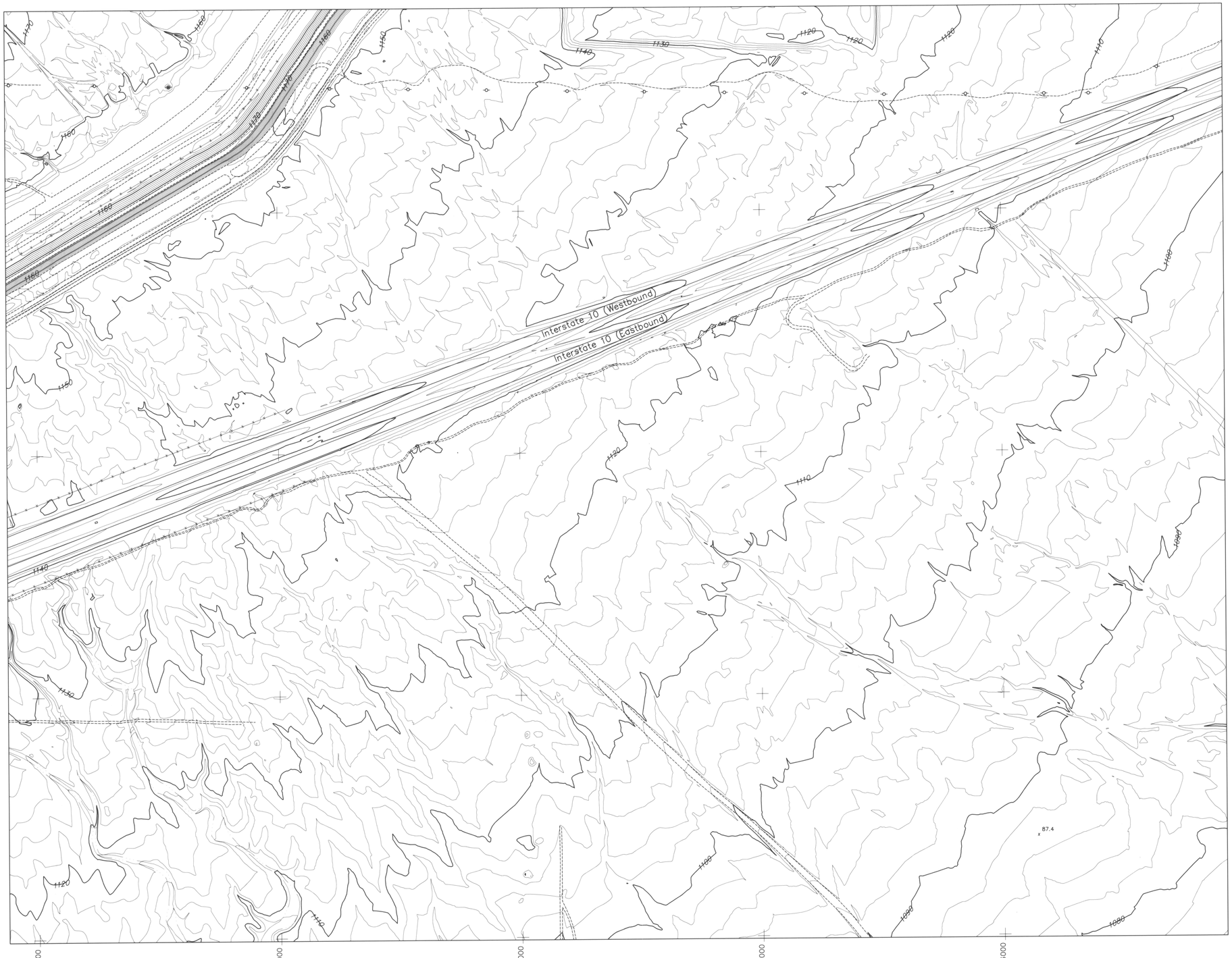
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 23 OF 191



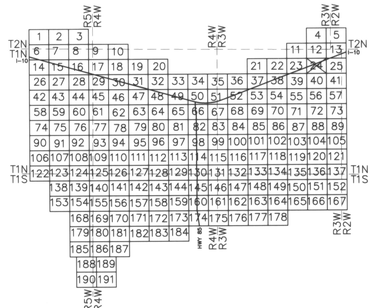
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"

LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- 1110 INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- x 21.4 SPOT ELEVATION
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FIRE HYDRANT
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE



0 200' 400' 600'

SCALE: 1" = 200'

CONTOUR INTERVAL = 2 FEET

ARIZONA LAND SURVEYOR CERTIFICATE NO. 33313 BYRON E. DAWSON

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Hultt-Zollars & Project Engineering Consultants.

12-20-03

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.

FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY	DATE
DESIGN:	–	–
DESIGN. CHK.	–	–
PLANS:	–	–
PLANS. CHK.	–	–

SUBMITTED BY: DATE:

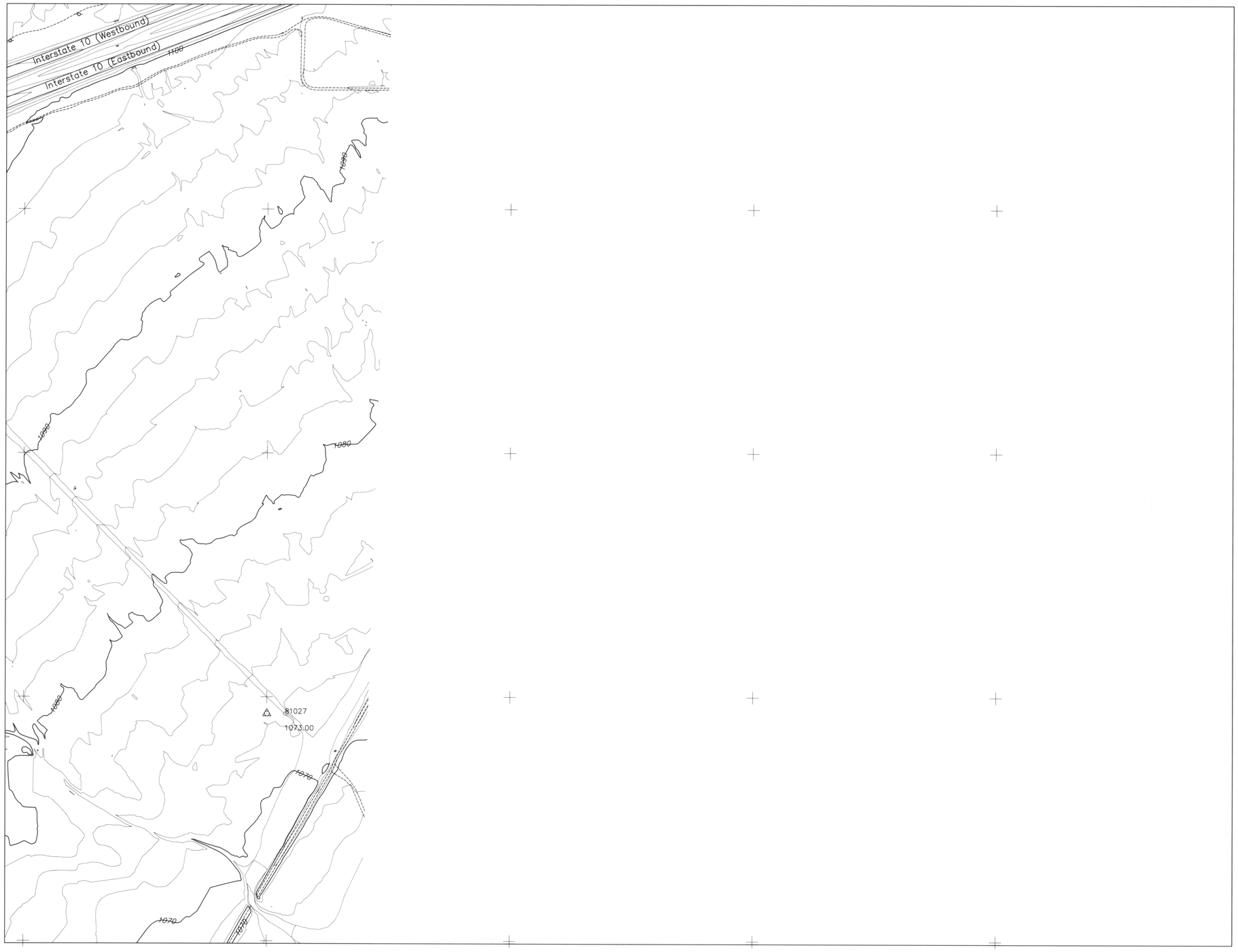
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE:

APPROVED BY: DATE:

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 24 OF 191



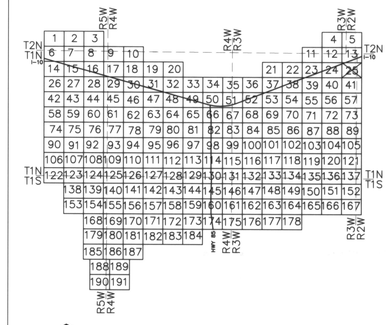
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"

LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- SPOT ELEVATION (x21.4)
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FIRE HYDRANT (FH)
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE (V)
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE



0 200' 400' 600'

SCALE: 1" = 200'

CONTOUR INTERVAL = 2 FEET

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Huitt-Zollars & Project Engineering Consultants.

BYRON E. [illegible] 7-25-03

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.

FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY	DATE
DESIGN	–	–
DESIGN CHK.	–	–
PLANS	–	–
PLANS CHK.	–	–

SUBMITTED BY: DATE:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 25 OF 191

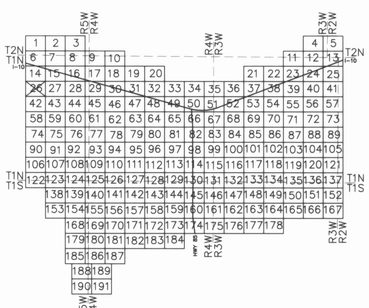
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"

LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- SPOT ELEVATION
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FIRE HYDRANT
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE



N

0 200' 400' 600'

SCALE: 1" = 200'

CONTOUR INTERVAL = 2 FEET

REGISTERED LAND SURVEYOR CERTIFICATE NO. 33313 BYRON E. JOHNSON

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Hultt-Zollars & Project Engineering Consultants.

12-20-02

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.

FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY	DATE
DESIGN	–	–
DESIGN CHK	–	–
PLANS	–	–
PLANS CHK	–	–

SUBMITTED BY: DATE:

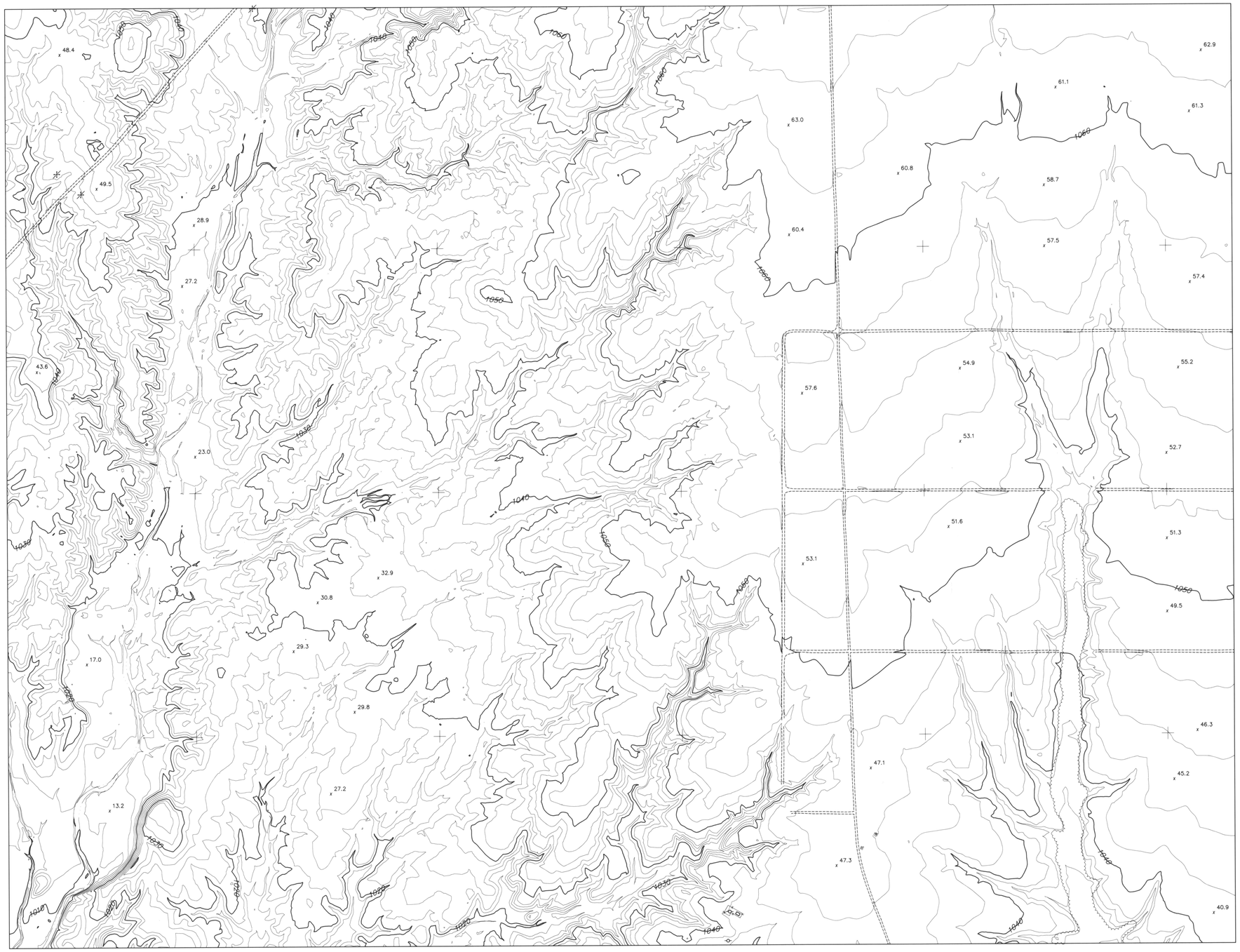
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 26 OF 191



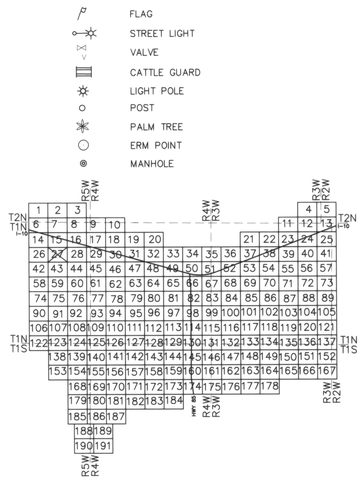
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"

LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- SPOT ELEVATION
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FIRE HYDRANT
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE



0 200' 400' 600'

SCALE: 1" = 200'

CONTOUR INTERVAL = 2 FEET

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Hultt-Zollars & Project Engineering Consultants.

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.

FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY	DATE
DESIGN:	–	–
DESIGN CHK:	–	–
PLANS:	–	–
PLANS CHK:	–	–

SUBMITTED BY: DATE:

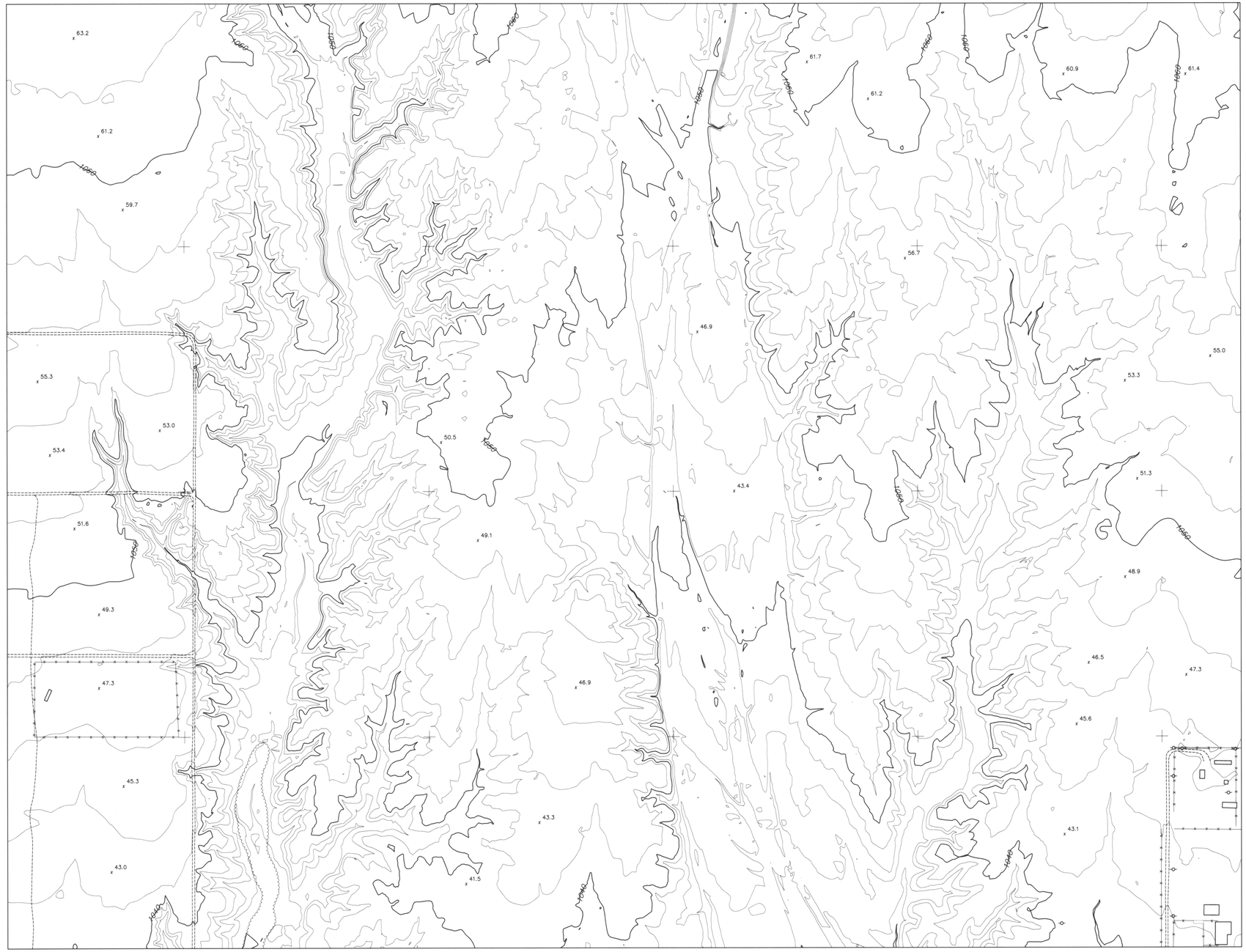
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 27 OF 191



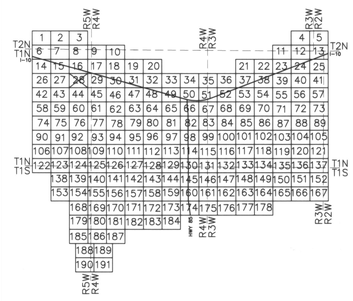
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"

LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- 1110 INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- 21.4 SPOT ELEVATION
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FIRE HYDRANT
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE



N

0 200' 400' 600'

SCALE: 1" = 200'

CONTOUR INTERVAL = 2 FEET

BYRON E. DAVIS 33313 Registered Professional Land Surveyor ARIZONA 7-25-03

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Hultt-Zollars & Project Engineering Consultants.

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.

FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY:	DATE:
DESIGN:	–	–
DESIGN CHK:	–	–
PLANS:	–	–
PLANS CHK:	–	–

SUBMITTED BY: DATE:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 28 OF 191

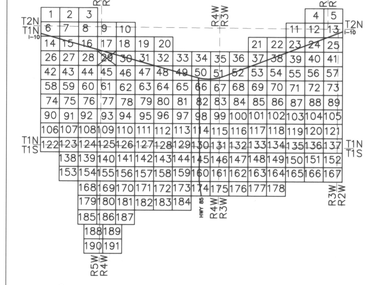
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"

LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- 1110 INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- 21.4 SPOT ELEVATION
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FIRE HYDRANT
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE



N

0 200' 400' 600'

SCALE: 1" = 200'

CONTOUR INTERVAL = 2' FEET

REGISTERED AND LICENSED LAND SURVEYOR 33251 BYRON E. JOHNSON 12-20-02

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Hultt-Zollars & Project Engineering Consultants.

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.

FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY	DATE
DESIGN:	–	–
DESIGN CHK:	–	–
PLANS:	–	–
PLANS CHK:	–	–

SUBMITTED BY: DATE:

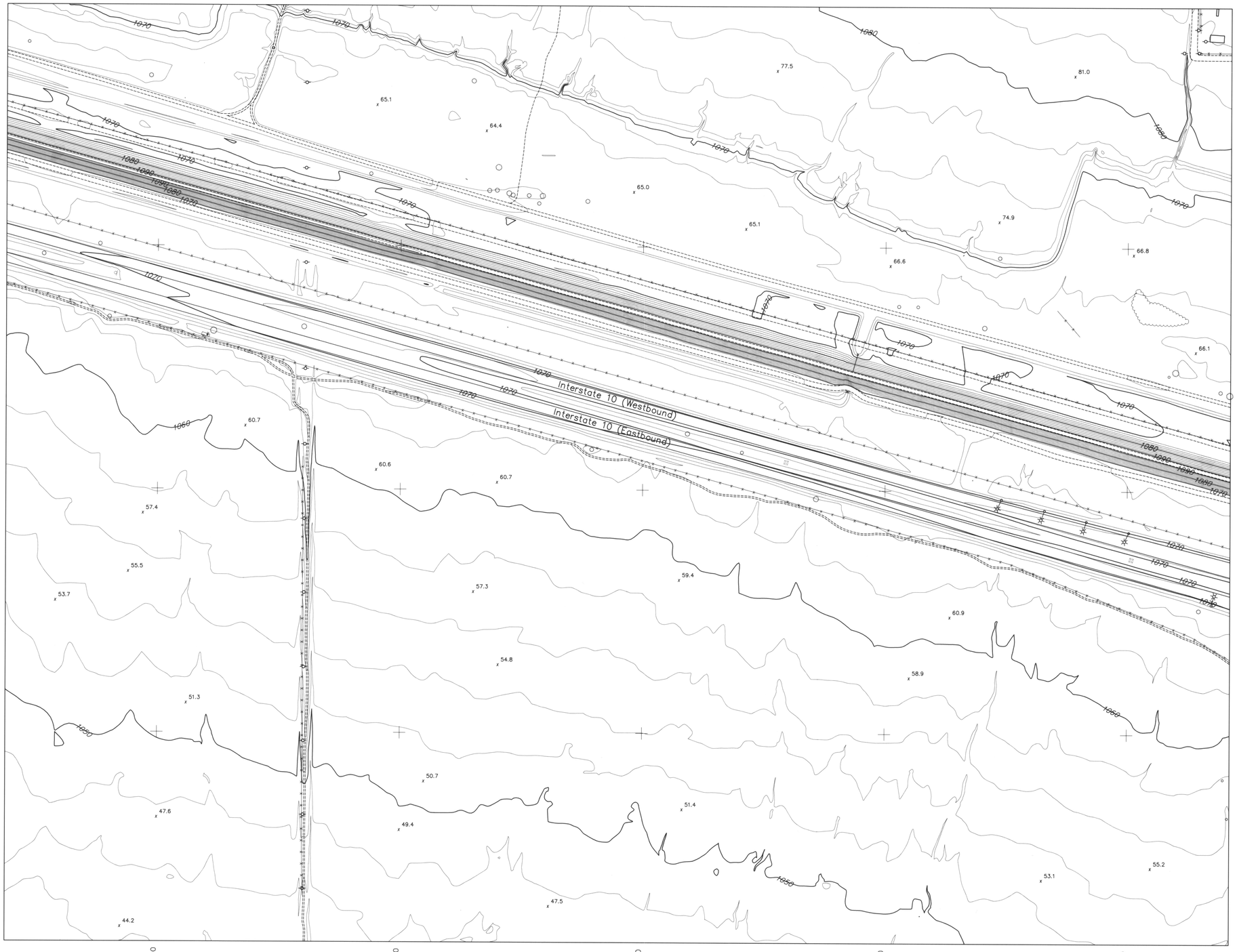
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 29 OF 191



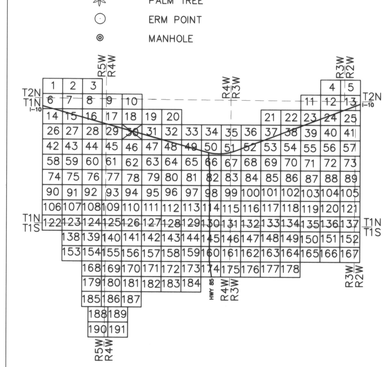
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"

LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- SPOT ELEVATION (21.4)
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FIRE HYDRANT (FH)
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE (V)
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE



N

0 200' 400' 600'

SCALE: 1" = 200'

CONTOUR INTERVAL = 2 FEET

BYRON E. JOHNSON 33313 REGISTERED LAND SURVEYOR 7-25-03 ARIZONA U.S.A.

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Huitt-Zollars & Project Engineering Consultants.

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.

FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY	DATE
DESIGN	–	–
DESIGN CHK.	–	–
PLANS	–	–
PLANS CHK.	–	–

SUBMITTED BY: DATE:

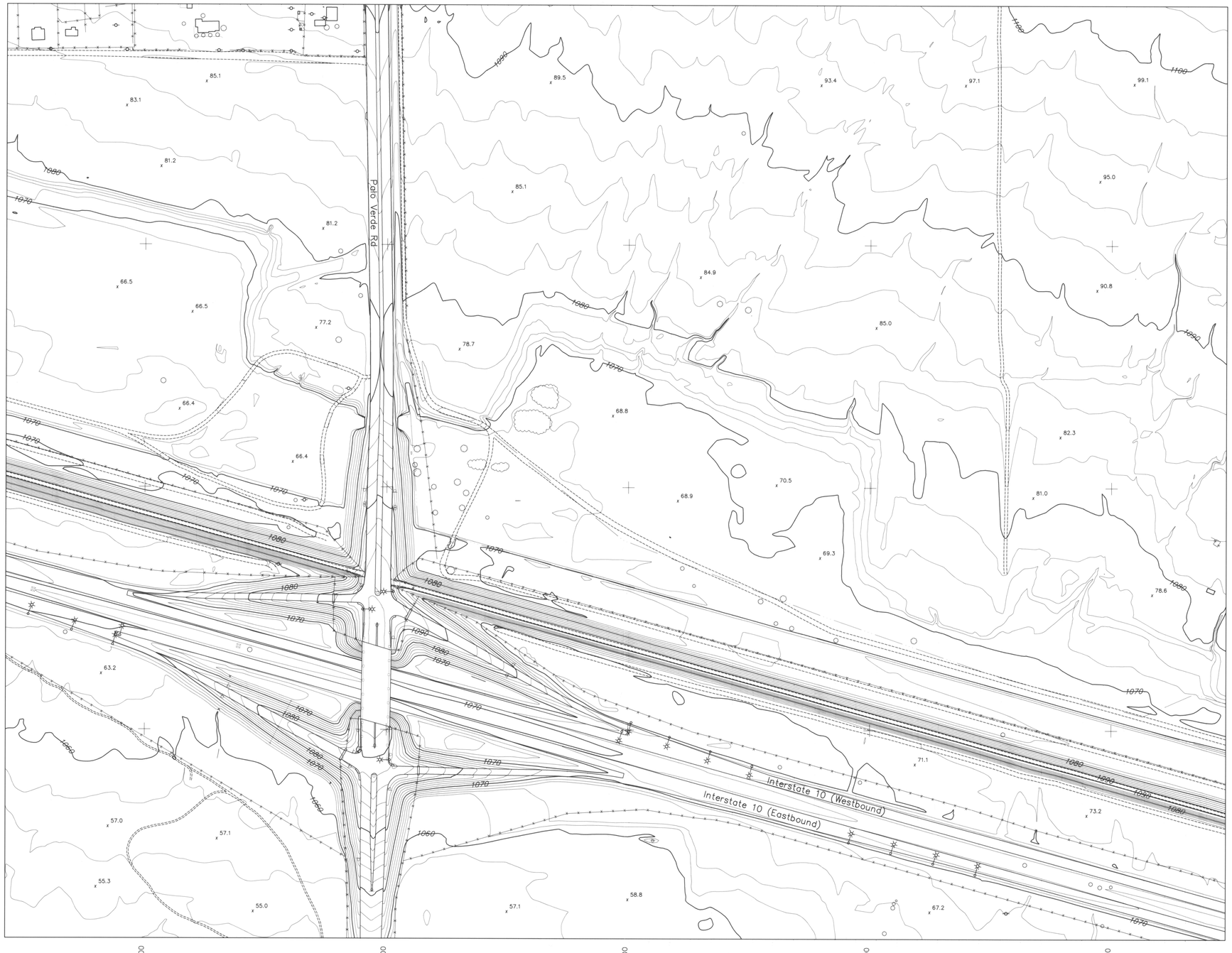
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 30 OF 191



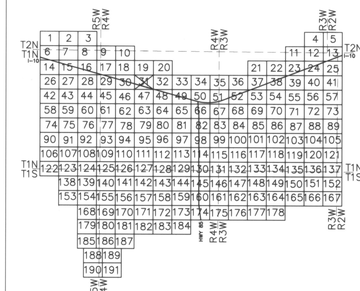
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"

LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- SPOT ELEVATION
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FIRE HYDRANT
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE



N

0 200' 400' 600'

SCALE: 1" = 200'

CONTOUR INTERVAL = 2 FEET

REGISTERED LAND SURVEYOR CERTIFICATE NO. 33313 BYRON E. JOHNSON

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Hultt-Zollars & Project Engineering Consultants.

12-20-03

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.

FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY:	DATE
DESIGN:	–	–
DESIGN CHK:	–	–
PLANS:	–	–
PLANS CHK:	–	–

SUBMITTED BY: DATE:

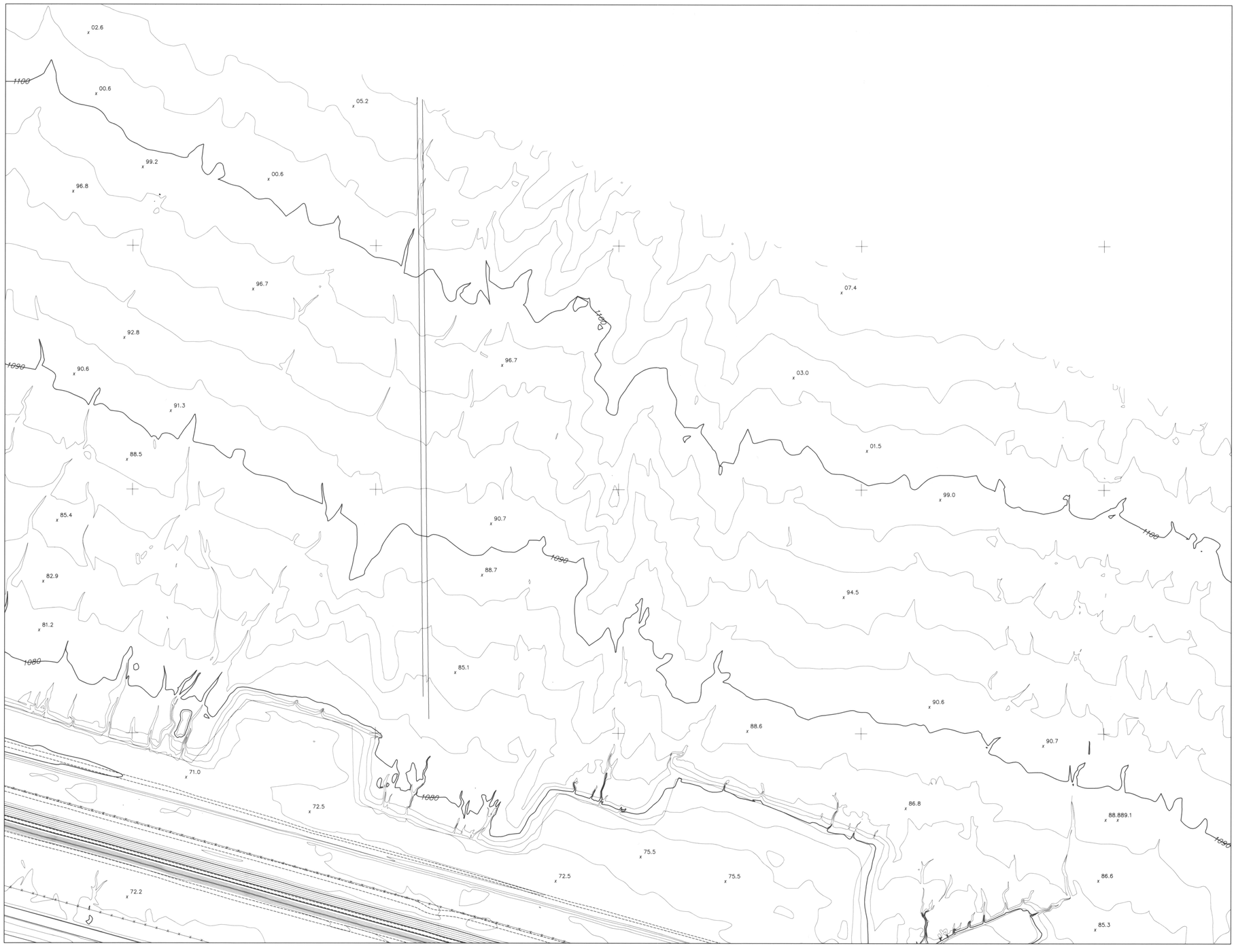
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 31 OF 191



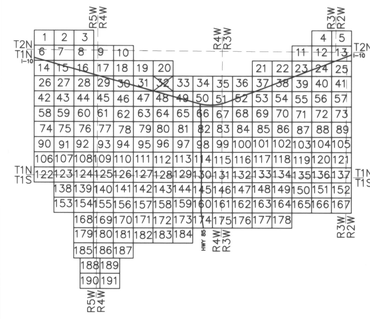
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"

LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- SPOT ELEVATION
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FIRE HYDRANT
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE



N

0 200' 400' 600'

SCALE: 1" = 200'

CONTOUR INTERVAL = 2 FEET

REGISTERED LAND SURVEYOR CERTIFICATE NO. 33313 BYRON E. JOHNSON

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Hutt-Zollars & Project Engineering Consultants.

12-20-03

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.

FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY	DATE
DESIGN	–	–
DESIGN CHK	–	–
PLANS	–	–
PLANS CHK	–	–

SUBMITTED BY: DATE:

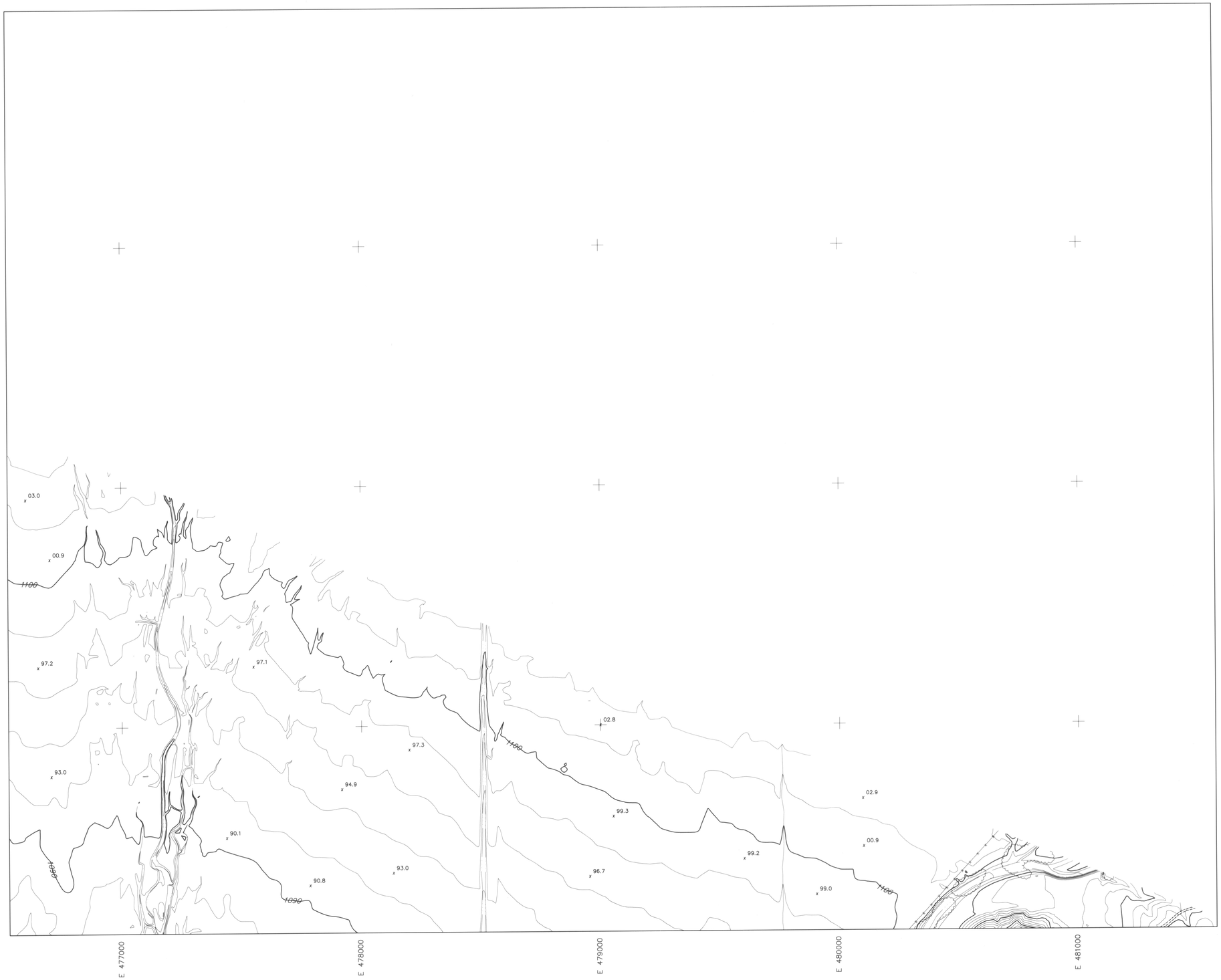
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 32 OF 191



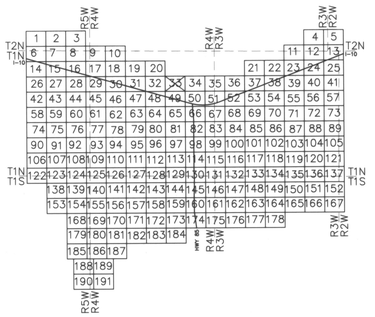
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"

LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- SPOT ELEVATION (21.4)
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FIRE HYDRANT
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE



0 200' 400' 600'

SCALE: 1" = 200'

CONTOUR INTERVAL = 2 FEET

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Hulit-Zallaro & Project Engineering Consultants.

12-20-03

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.
FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY:	DATE:
DESIGN	–	–
DESIGN CHK	–	–
PLANS	–	–
PLANS CHK	–	–

SUBMITTED BY: DATE:

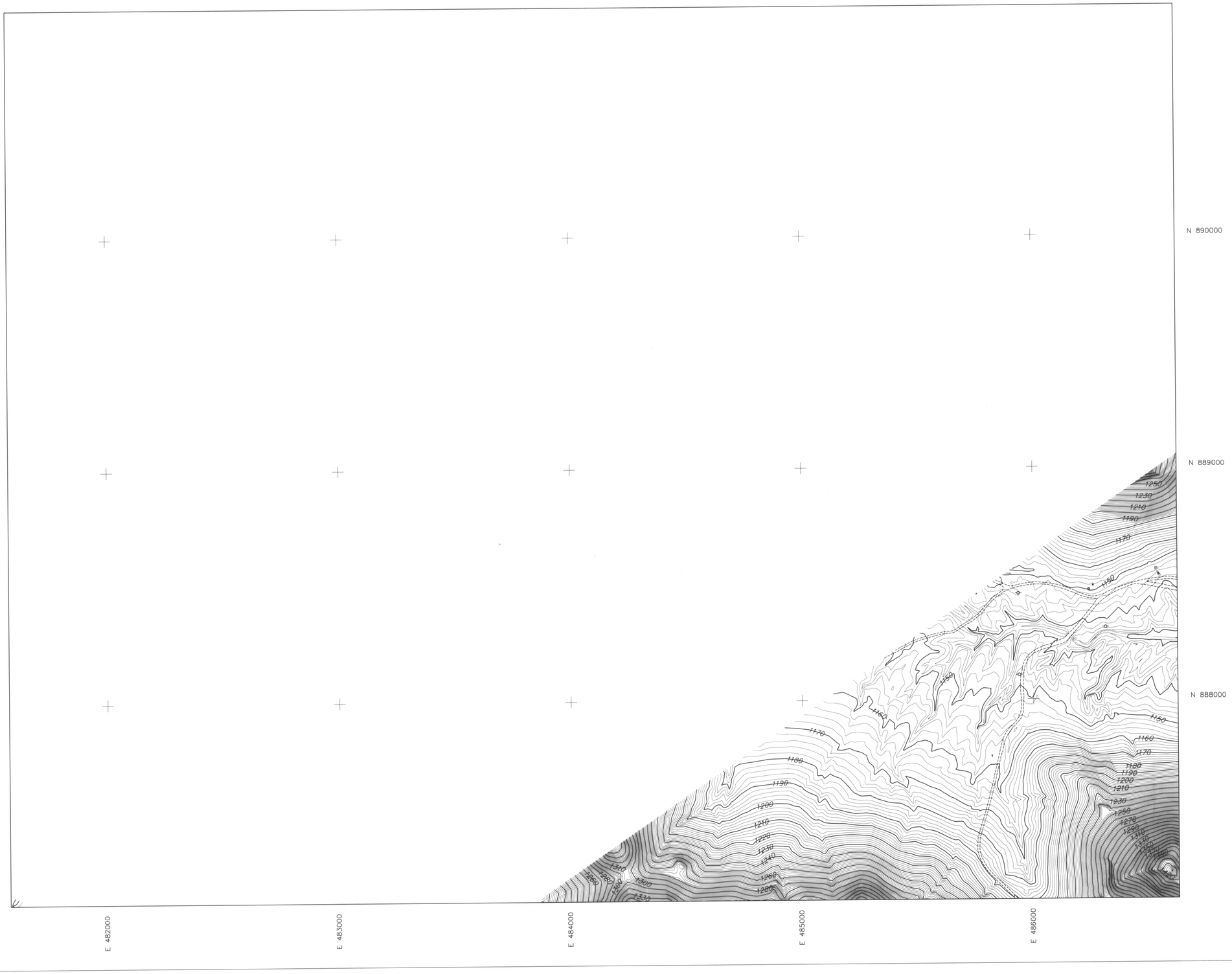
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 33 OF 191



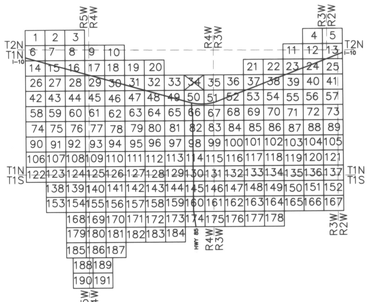
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"

LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- SPOT ELEVATION (21.4)
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FIRE HYDRANT
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE



ARIZONA LAND SURVEYOR
33313
BYRON E. JOHNSON
12-20-03

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Huitt-Zollars & Project Engineering Consultants.

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.
FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY	DATE
DESIGN	–	–
DESIGN CHK	–	–
PLANS	–	–
PLANS CHK	–	–

SUBMITTED BY: DATE:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE:

APPROVED BY: DATE:

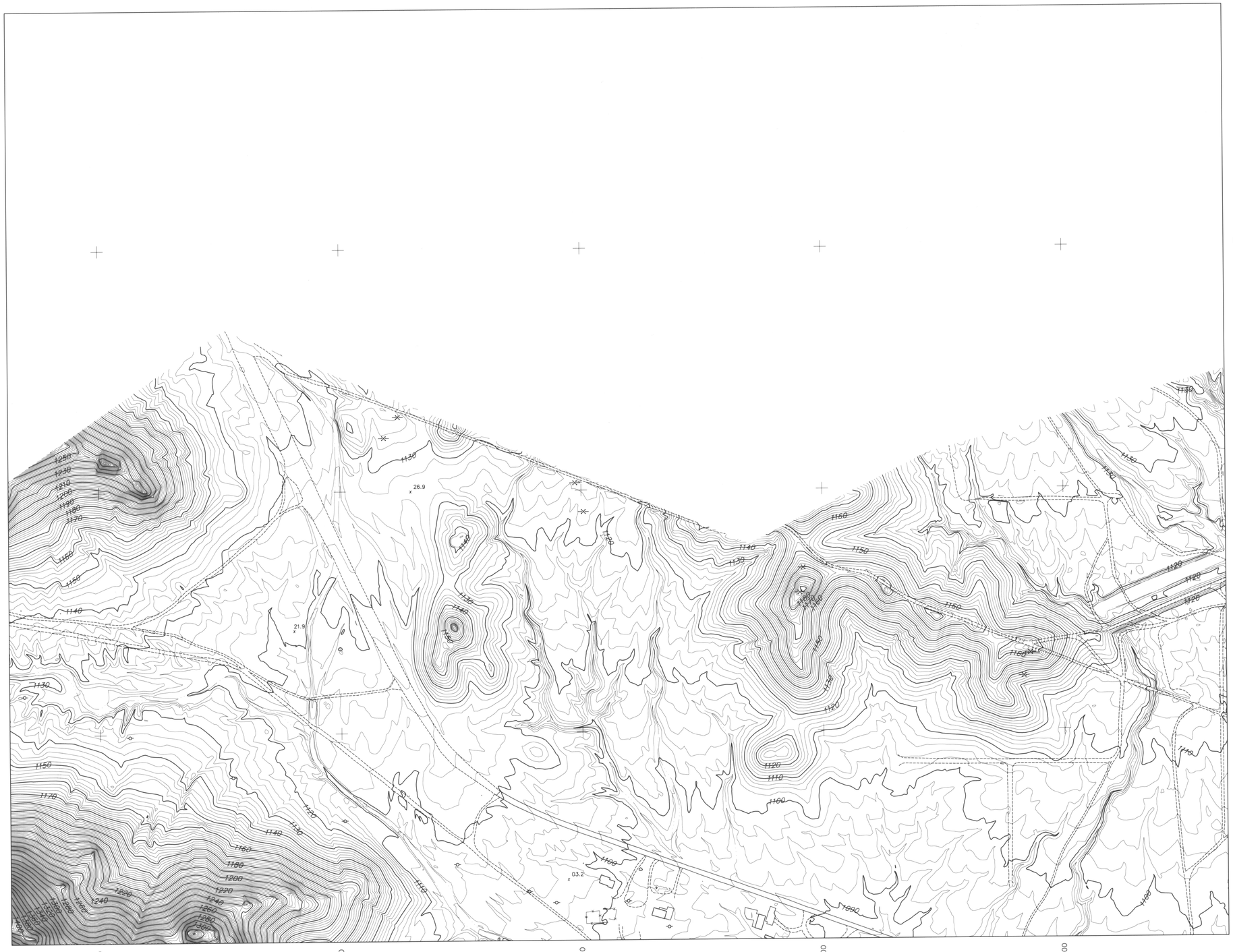
CHIEF ENGINEER AND GENERAL MANAGER

SHEET 34 OF 191

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

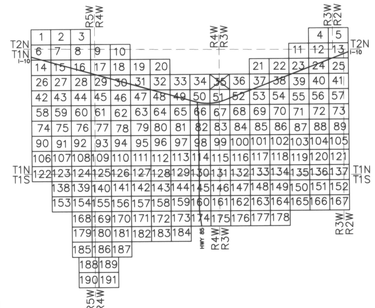
BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"



LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- SPOT ELEVATION
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FIRE HYDRANT
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE



N

0 200' 400' 600'

SCALE: 1" = 200'

CONTOUR INTERVAL = 2 FEET

REGISTERED LAND SURVEYOR CERTIFICATE NO. 33313 BYRON E. EMMONS

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Hultt-Zollars & Project Engineering Consultants.

12-20-03

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.

FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY	DATE
DESIGN	–	–
DESIGN CHK	–	–
PLANS	–	–
PLANS CHK	–	–

SUBMITTED BY: _____ DATE: _____

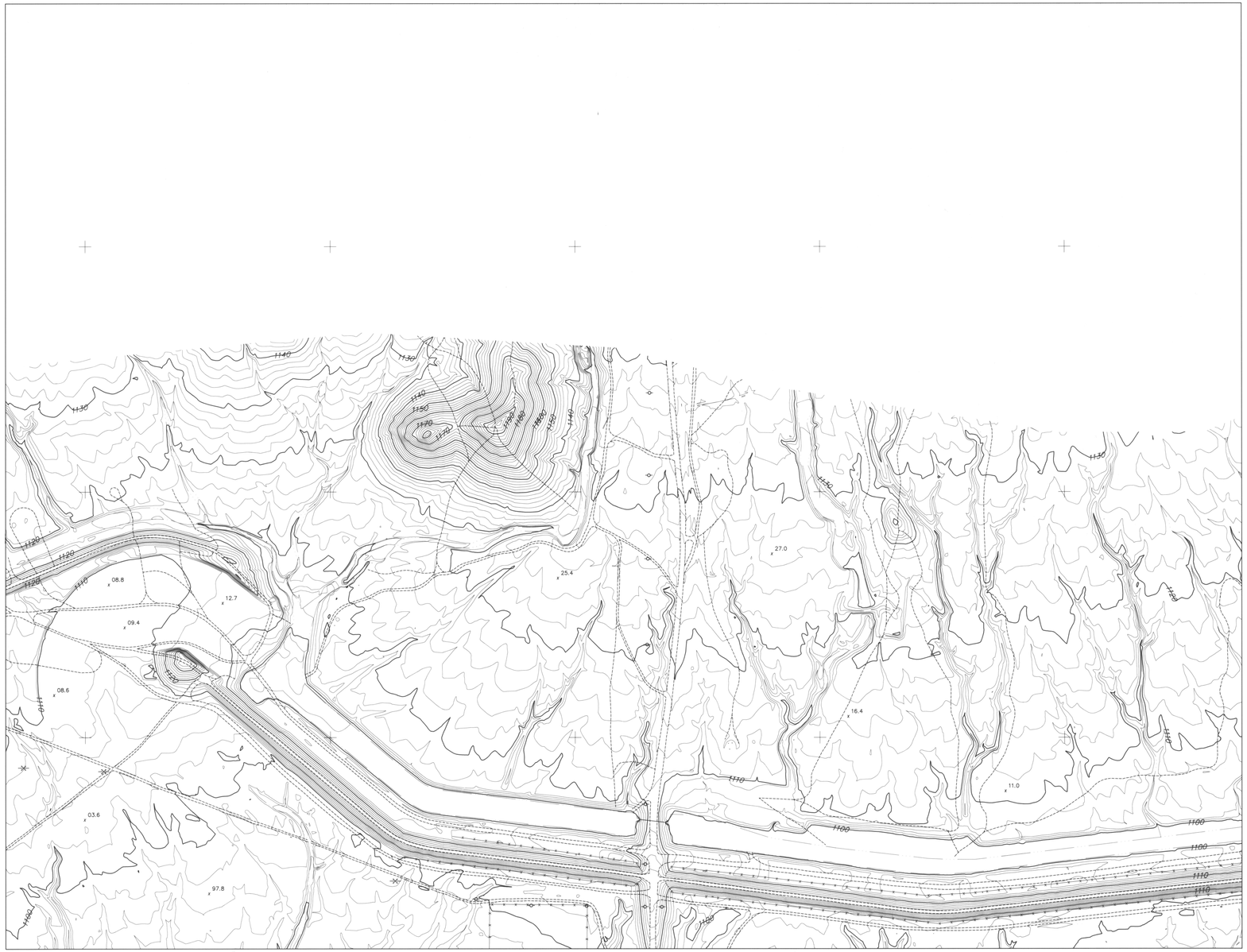
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: _____ DATE: _____

APPROVED BY: _____ DATE: _____

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 35 OF 191



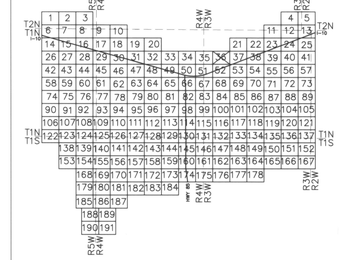
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"

LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- 1110 INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- 21.4 SPOT ELEVATION
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FIRE HYDRANT
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE



N

0 200' 400' 600'

SCALE: 1" = 200'

CONTOUR INTERVAL = 2 FEET

ARIZONA LAND SURVEYOR CERTIFICATE NO. 33313 BYRON E. JOHNSON

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Hutt-Zallara & Project Engineering Consultants.

12-20-03

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.

FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY:	DATE:
DESIGN:	–	–
DESIGN CHK:	–	–
PLANS:	–	–
PLANS CHK:	–	–

SUBMITTED BY: DATE:

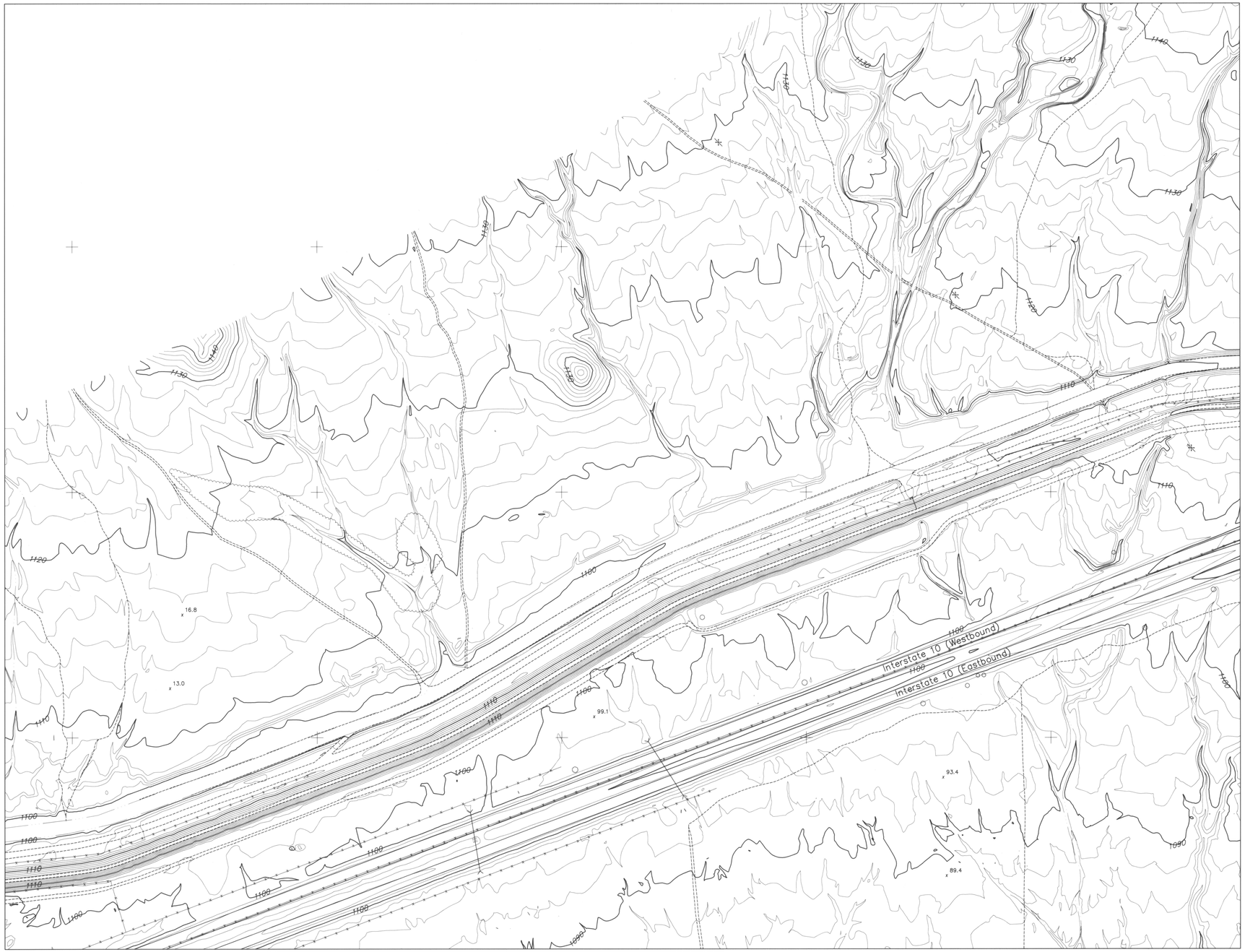
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE:

APPROVED BY: DATE:

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 36 OF 191



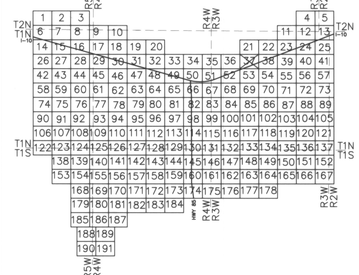
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"

LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- 1110 INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- 21.4 SPOT ELEVATION
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FIRE HYDRANT
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE



0 200' 400' 600'

SCALE: 1" = 200'

CONTOUR INTERVAL = 2 FEET

REGISTERED LAND SURVEYOR 33315 BYRON E. JOHNSON 12-20-03

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Hultt-Zollars & Project Engineering Consultants.

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.

FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY:	DATE:
DESIGN:	–	–
DESIGN CHK:	–	–
PLANS:	–	–
PLANS CHK:	–	–

SUBMITTED BY: DATE:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 37 OF 191

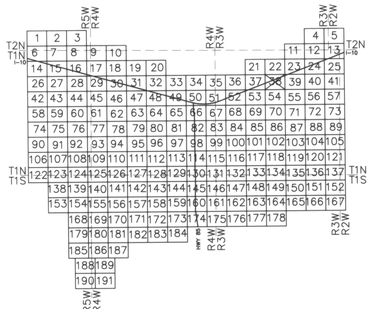
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"

LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- 1110 INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- x 21.4 SPOT ELEVATION
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FH FIRE HYDRANT
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE



N

0 200' 400' 600'

SCALE: 1" = 200'

CONTOUR INTERVAL = 2 FEET

REGISTERED LAND SURVEYOR CERTIFICATE NO. 33313 BYRON E. JOHNSON

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Hultt-Zollars & Project Engineering Consultants.

12-20-03

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.
FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY:	DATE:
DESIGN:	–	–
DESIGN CHK:	–	–
PLANS:	–	–
PLANS CHK:	–	–

SUBMITTED BY: DATE:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 38 OF 191

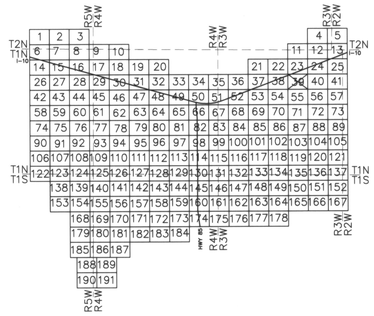
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"

LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- SPOT ELEVATION
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FIRE HYDRANT
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE



0 200' 400' 600'

SCALE: 1" = 200'

CONTOUR INTERVAL = 2 FEET

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Hultt-Zollars & Project Engineering Consultants.

33313 BYRON E. JOHNSON 7-25-03 REGISTERED ARIZONA U.S.A.

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.
FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY:	DATE:
DESIGN	–	–
DESIGN CHK.	–	–
PLANS	–	–
PLANS CHK.	–	–

SUBMITTED BY: DATE:

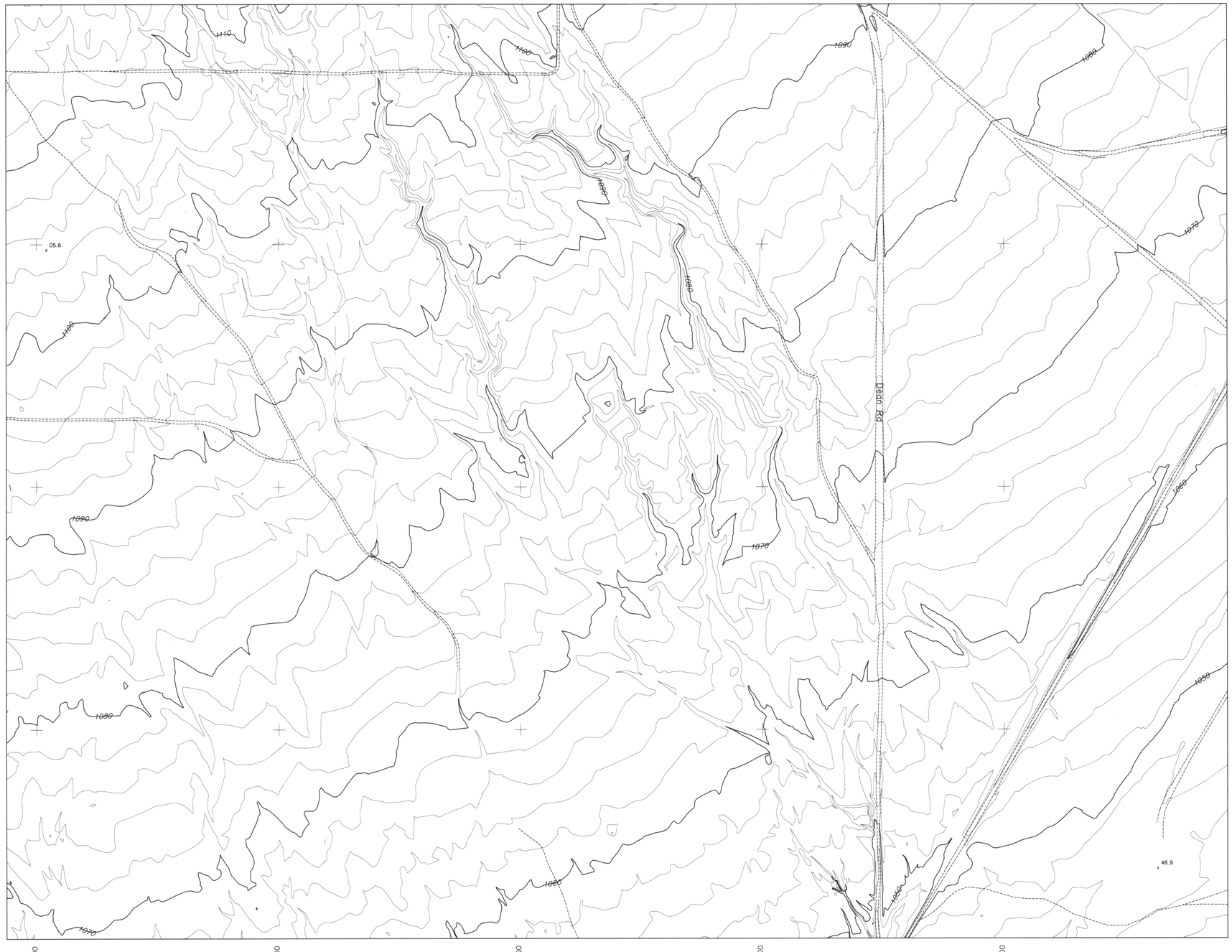
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 39 OF 191



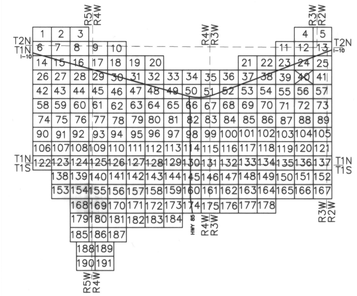
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

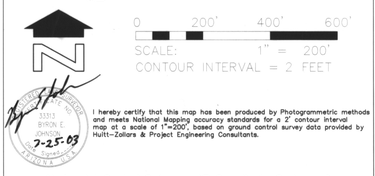
BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"

LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- SPOT ELEVATION
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FIRE HYDRANT
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE





I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Hultt-Zollars & Project Engineering Consultants.

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.

FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY	DATE
DESIGN	–	–
DESIGN CHK.	–	–
PLANS	–	–
PLANS CHK.	–	–

SUBMITTED BY: DATE:

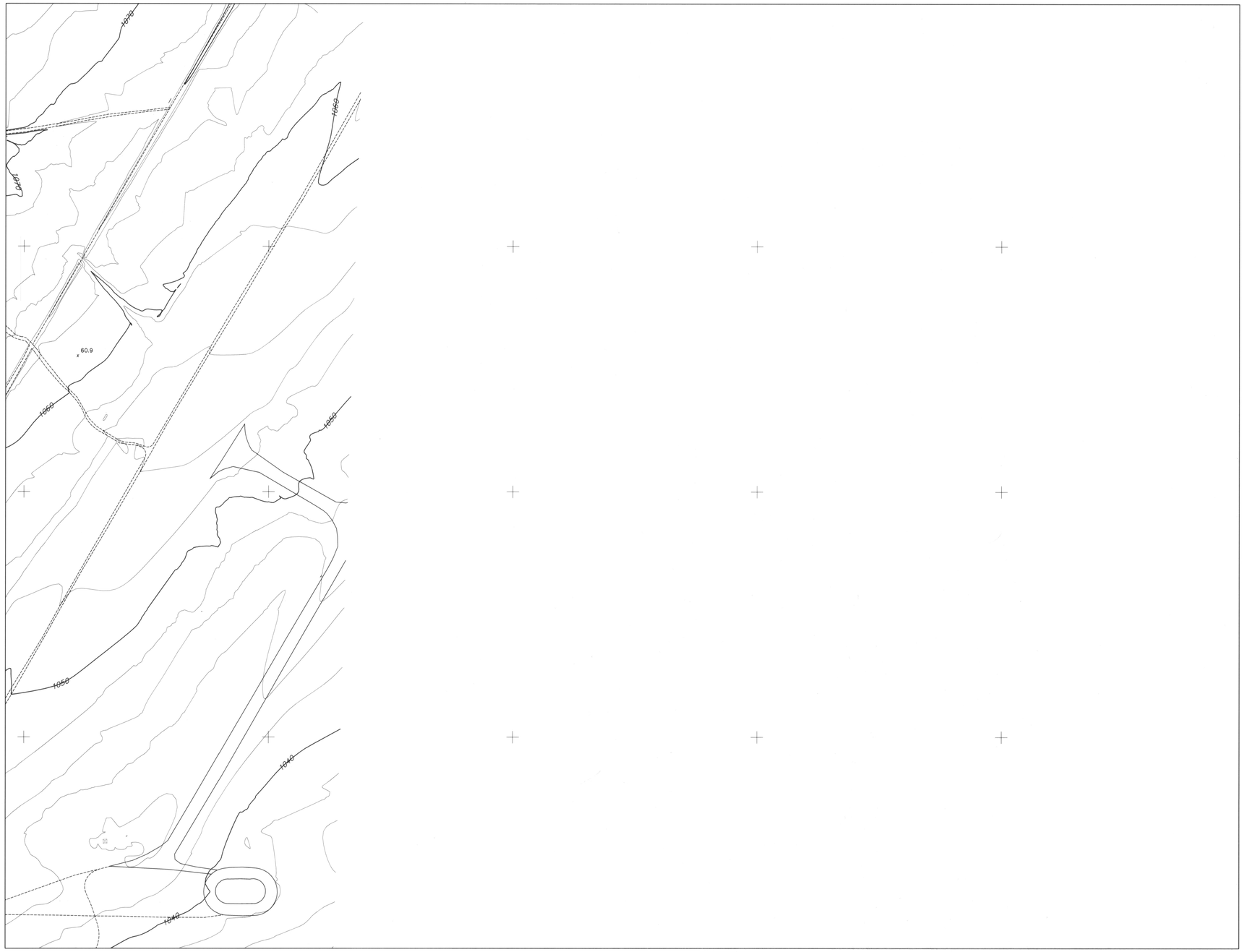
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 40 OF 191



N 890000

N 889000

N 888000

E 517000

E 518000

E 519000

E 520000

E 521000

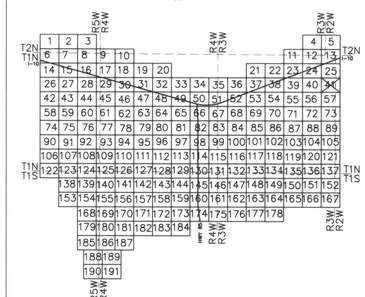
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"

LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- SPOT ELEVATION
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FIRE HYDRANT
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE



0 200' 400' 600'

SCALE: 1" = 200'

CONTOUR INTERVAL = 2 FEET

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Hultt-Zollars & Project Engineering Consultants.

BYRON E. SIMPSON 33313 REGISTERED LAND SURVEYOR ARIZONA U.S.A. 7-25-03 Signed

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.

FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY	DATE
DESIGN	–	–
DESIGN CHK.	–	–
PLANS	–	–
PLANS CHK.	–	–

SUBMITTED BY: DATE:

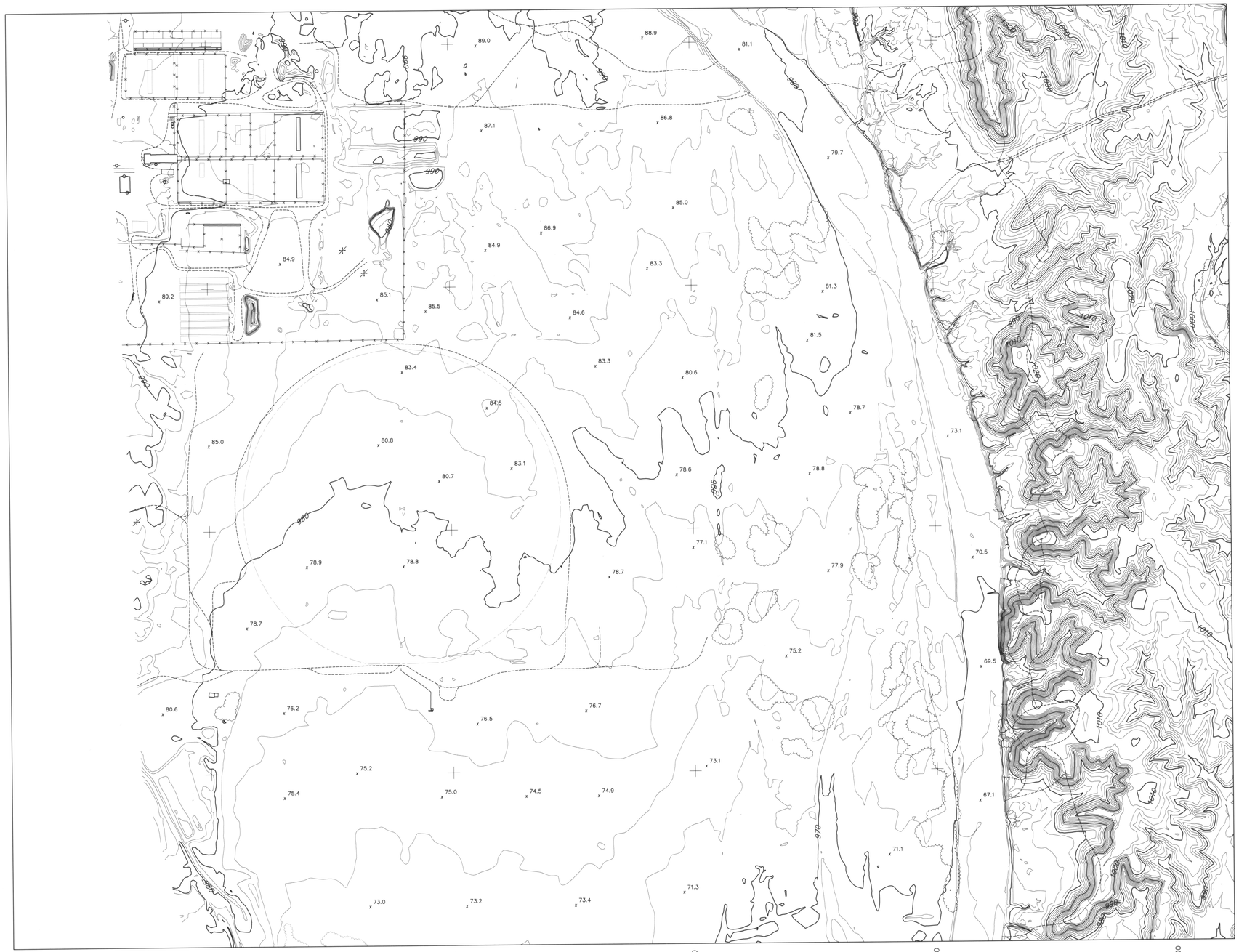
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 41 OF 191



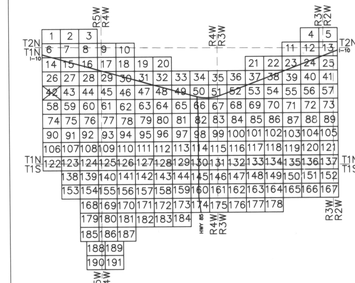
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"

LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- SPOT ELEVATION
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FIRE HYDRANT
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE



0 200' 400' 600'

SCALE: 1" = 200'

CONTOUR INTERVAL = 2 FEET

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Hultt-Zollars & Project Engineering Consultants.

7-25-03

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.

FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY	DATE
DESIGN:	–	–
DESIGN CHK:	–	–
PLANS:	–	–
PLANS CHK:	–	–

SUBMITTED BY: DATE:

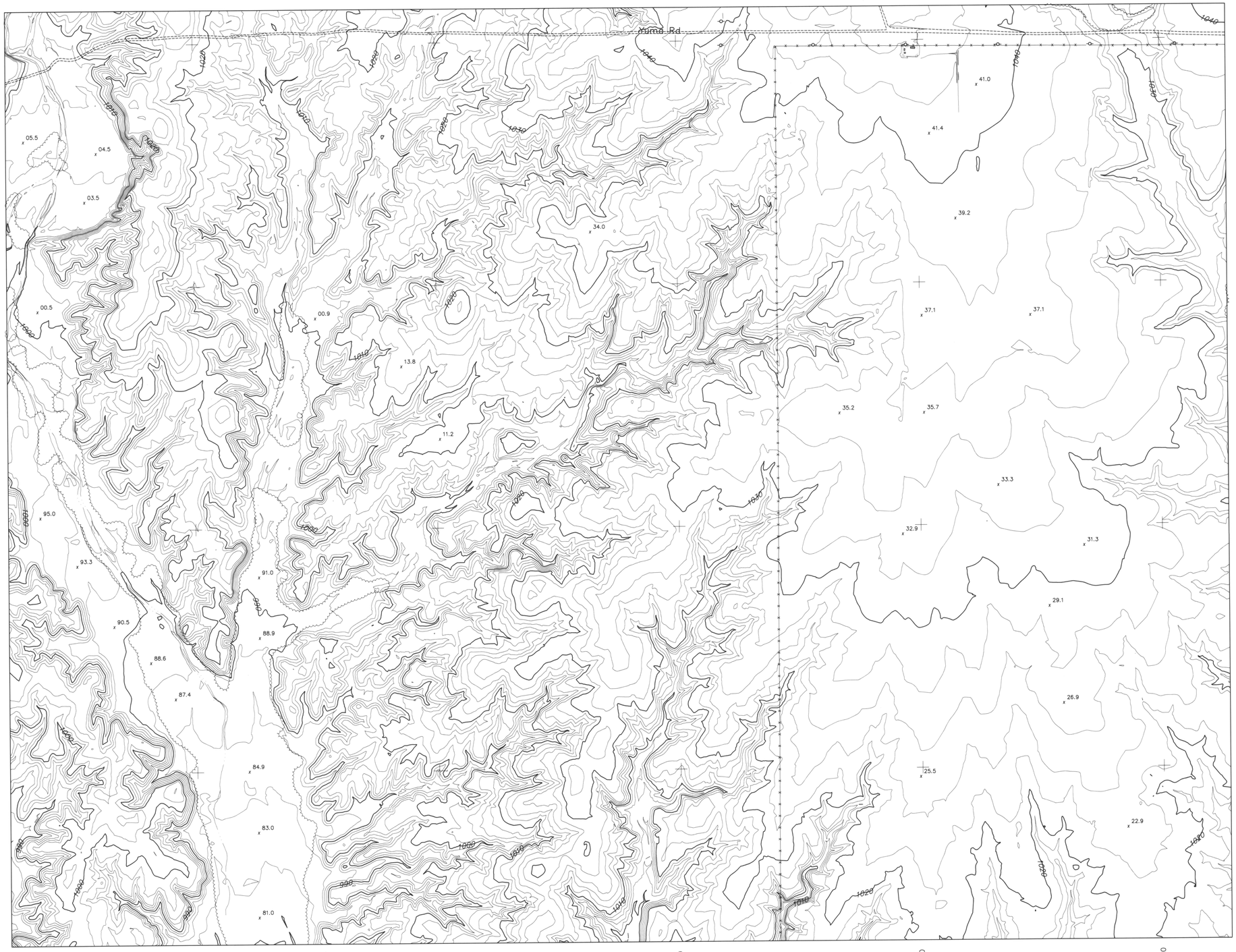
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 42 OF 191



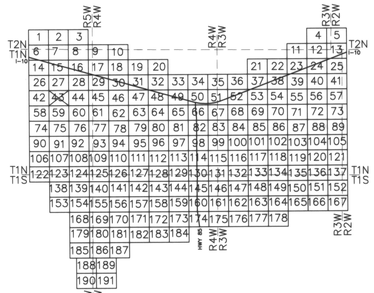
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"

LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- SPOT ELEVATION
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FIRE HYDRANT
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE



0 200' 400' 600'

SCALE: 1" = 200'

CONTOUR INTERVAL = 2 FEET

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Hiatt-Zallaro & Project Engineering Consultants.

BYRON E. JOHNSON 33913 REGISTERED LAND SURVEYOR
7-25-03

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.
FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY:	DATE:
DESIGN:	–	–
DESIGN CHK:	–	–
PLANS:	–	–
PLANS CHK:	–	–

SUBMITTED BY: DATE:

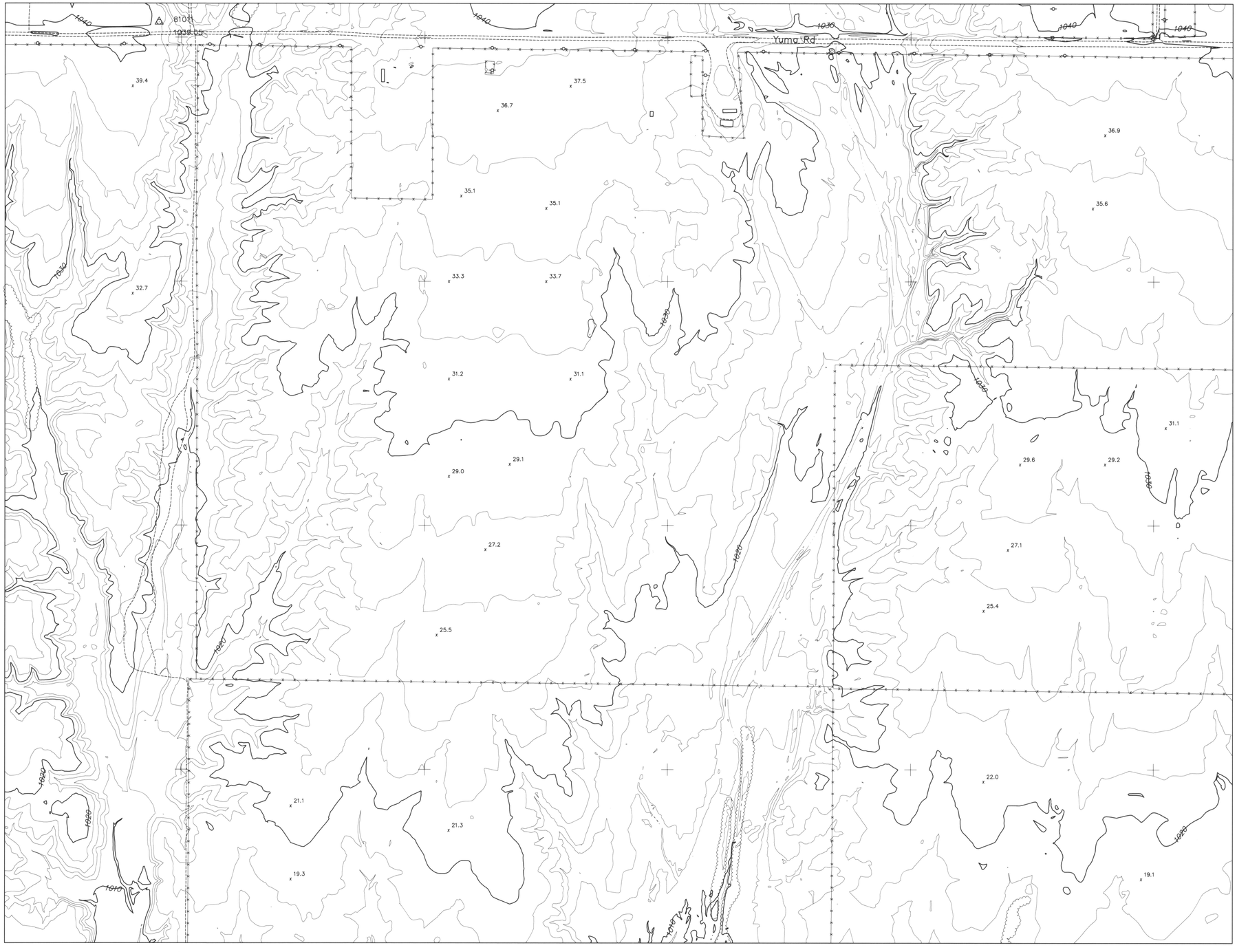
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 43 OF 191



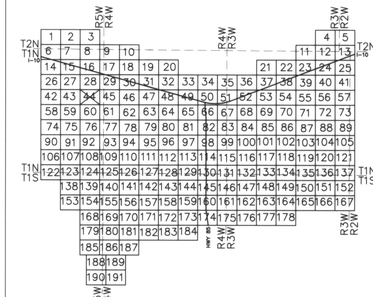
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"

LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- 1110 INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- 21.4 SPOT ELEVATION
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FIRE HYDRANT
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE



0 200' 400' 600'

SCALE: 1" = 200'

CONTOUR INTERVAL = 2 FEET

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Hultt-Zollars & Project Engineering Consultants.

BYRON E. SWAIN 37315 REGISTERED PROFESSIONAL ENGINEER ARIZONA U.S.A.

7-25-03

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.

FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY	DATE
DESIGN:	–	–
DESIGN CHK:	–	–
PLANS:	–	–
PLANS CHK:	–	–

SUBMITTED BY: DATE

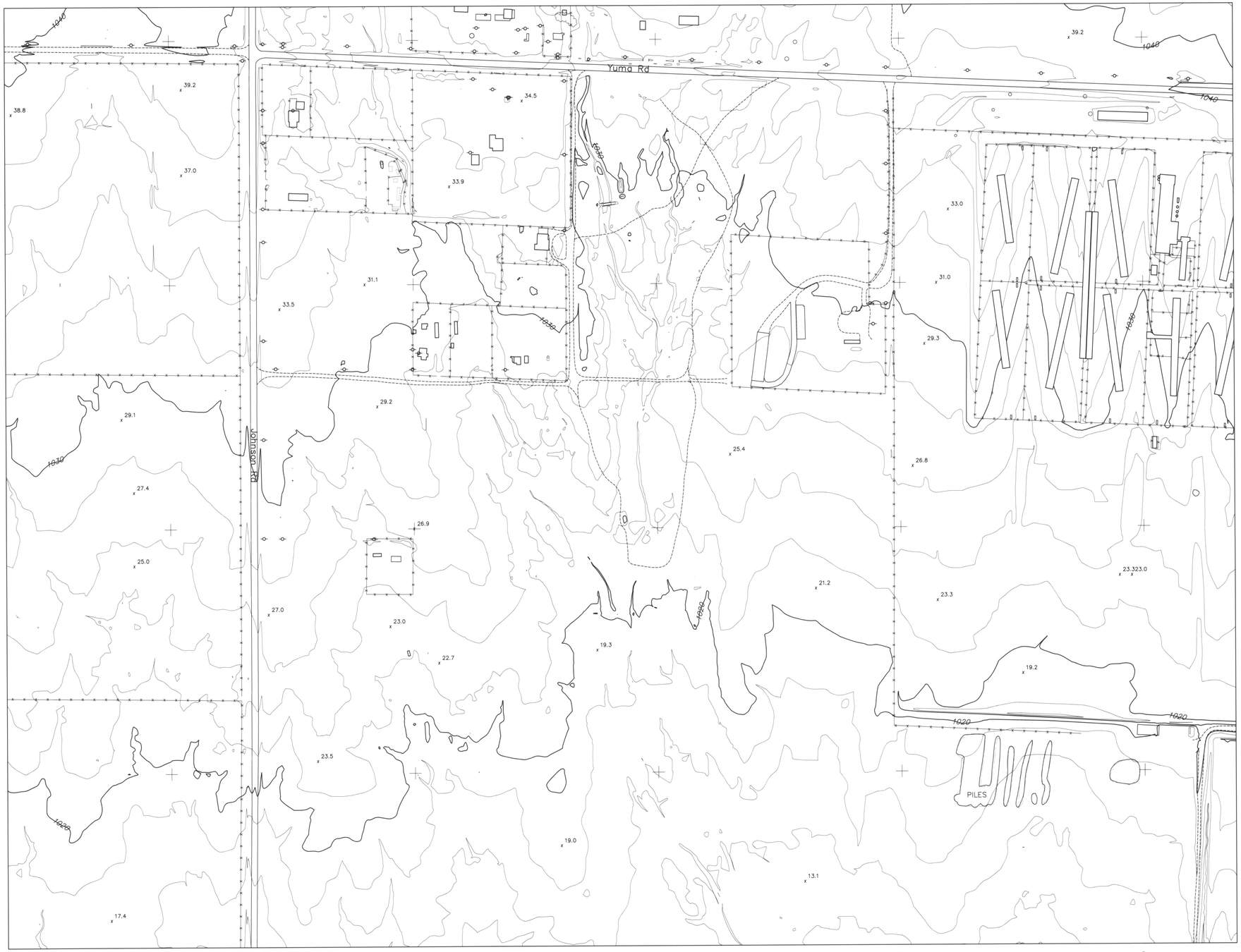
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 44 OF 191



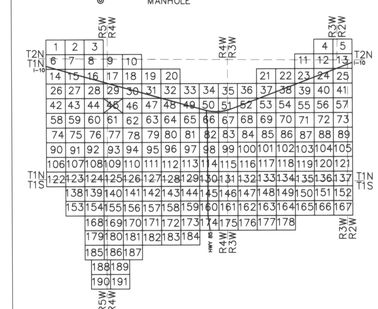
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

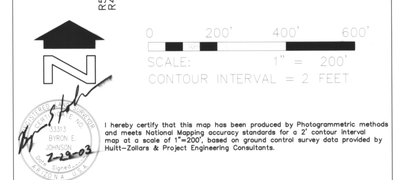
BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"

LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- 1110 INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- 21.4 SPOT ELEVATION
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FIRE HYDRANT
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE





I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Hultt-Zollars & Project Engineering Consultants.

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.
FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY	DATE
DESIGN	–	–
DESIGN CHK	–	–
PLANS	–	–
PLANS CHK	–	–

SUBMITTED BY: DATE

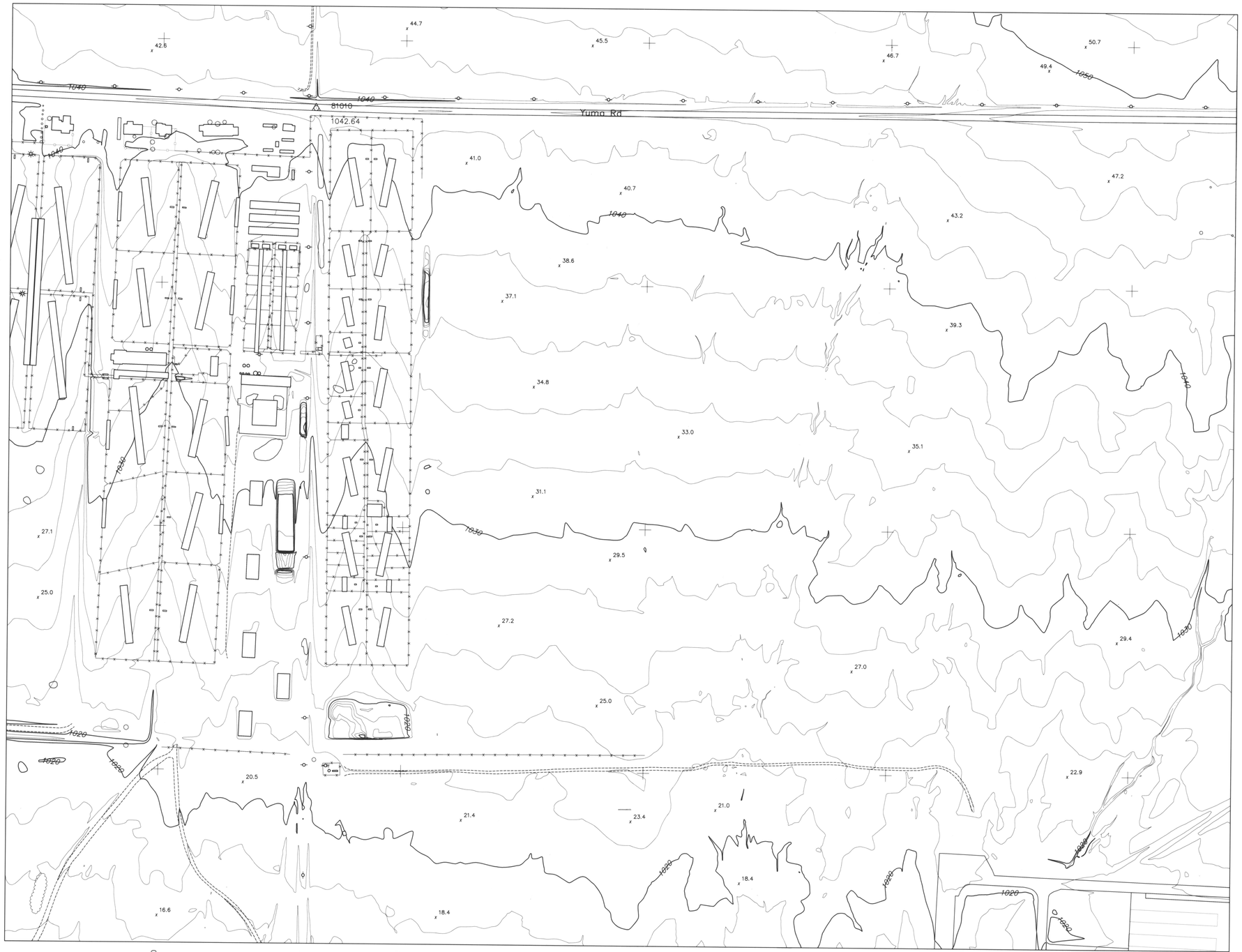
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 45 OF 191



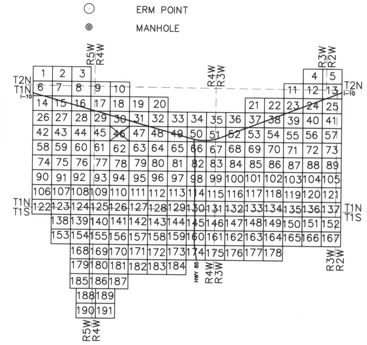
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"

LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- SPOT ELEVATION
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FIRE HYDRANT
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE



0 200' 400' 600'

SCALE: 1" = 200'

CONTOUR INTERVAL = 2 FEET

ARIZONA REGISTERED LAND SURVEYOR 13313 BYRON E. [illegible] EXPIRES 9-30-04 ARIZONA U.S.A.

7-25-03

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Huitt-Zollars & Project Engineering Consultants.

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.

FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY	DATE
DESIGN	–	–
DESIGN CHK.	–	–
PLANS	–	–
PLANS CHK.	–	–

SUBMITTED BY: DATE:

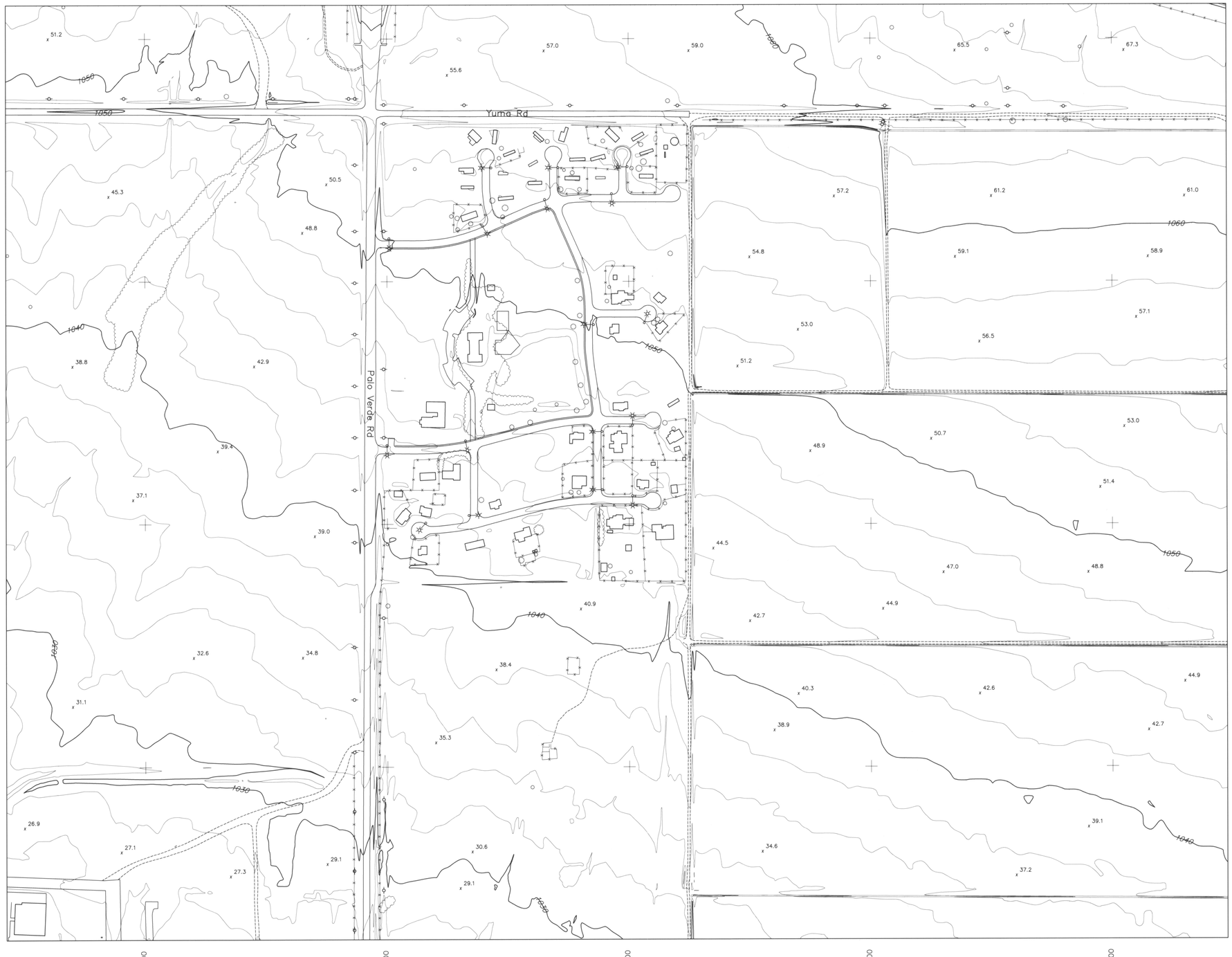
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 46 OF 191



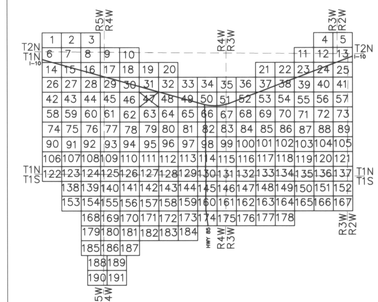
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"

LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- 1110 INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- 21.4 SPOT ELEVATION
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FIRE HYDRANT
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE



0 200' 400' 600'

SCALE: 1" = 200'

CONTOUR INTERVAL = 2 FEET

REGISTERED LAND SURVEYOR CERTIFICATE NO. 33313 BYRON E. JOHNSON

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Hulitt-Zollars & Project Engineering Consultants.

12-20-03

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.

FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY	DATE
DESIGN	–	–
DESIGN CHK	–	–
PLANS	–	–
PLANS CHK	–	–

SUBMITTED BY: DATE:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 47 OF 191

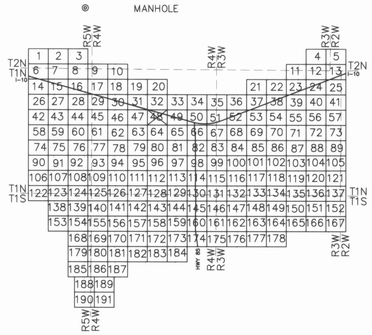
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"

LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- SPOT ELEVATION
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FIRE HYDRANT
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE



0 200' 400' 600'

SCALE: 1" = 200'

CONTOUR INTERVAL = 2 FEET

REGISTERED LAND SURVEYOR CERTIFICATE NO. 33313 BYRON E. JOHNSON

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Hutt-Zollars & Project Engineering Consultants.

12-20-03

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.

FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY:	DATE:
DESIGN	–	–
DESIGN CHK	–	–
PLANS	–	–
PLANS CHK	–	–

SUBMITTED BY: DATE:

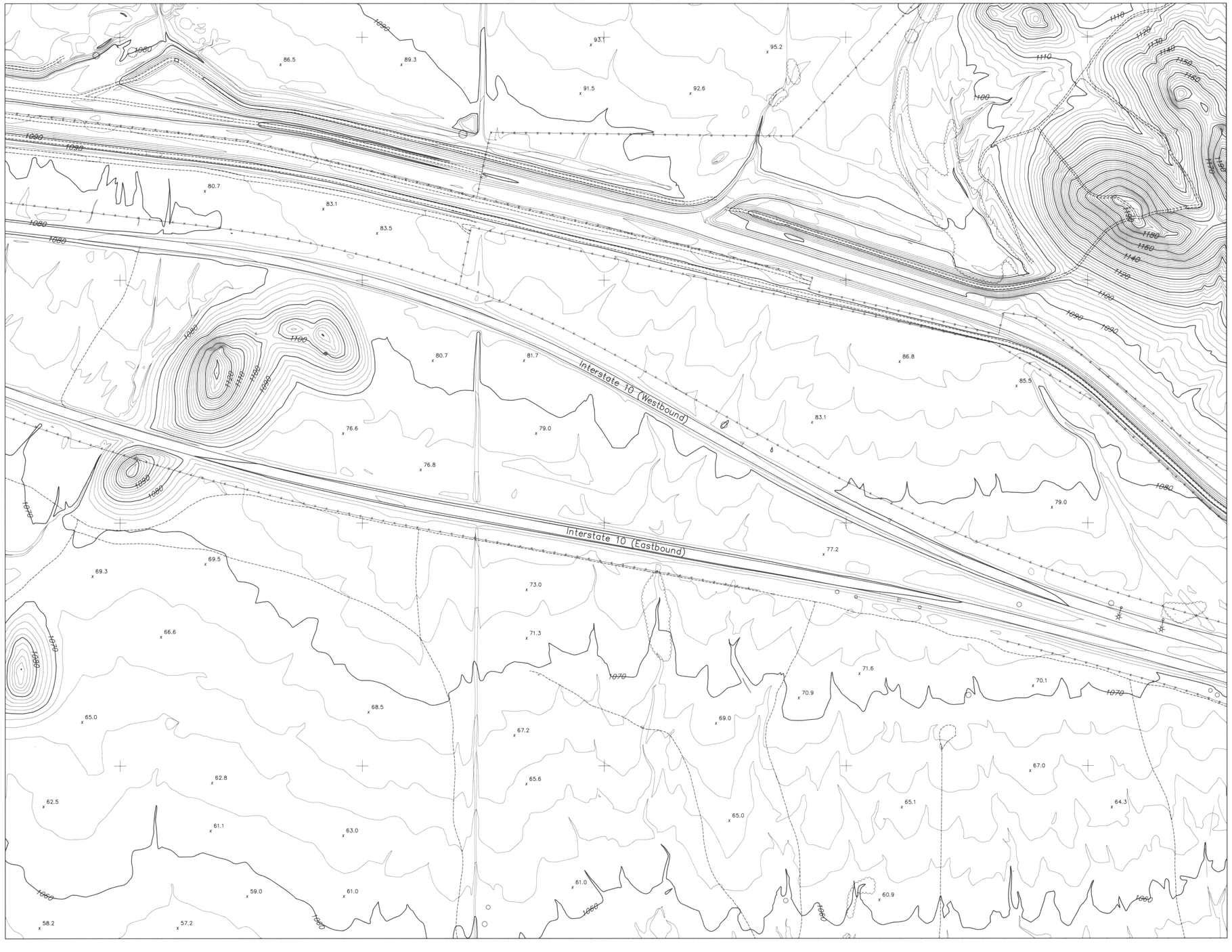
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 48 OF 191



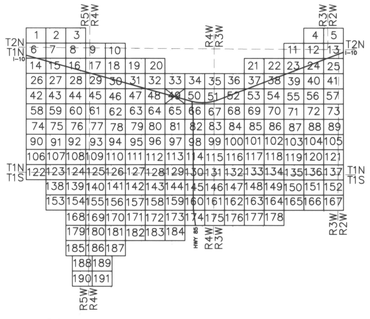
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"

LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- SPOT ELEVATION
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FIRE HYDRANT
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE



0 200' 400' 600'

SCALE: 1" = 200'

CONTOUR INTERVAL = 2' FEET

REGISTERED LAND SURVEYOR CERTIFICATE NO. 33313 BYRON E. JOHNSON

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Hultt-Zollars & Project Engineering Consultants.

12-20-03

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.

FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY:	DATE
DESIGN	–	–
DESIGN CHK	–	–
PLANS	–	–
PLANS CHK	–	–

SUBMITTED BY: DATE:

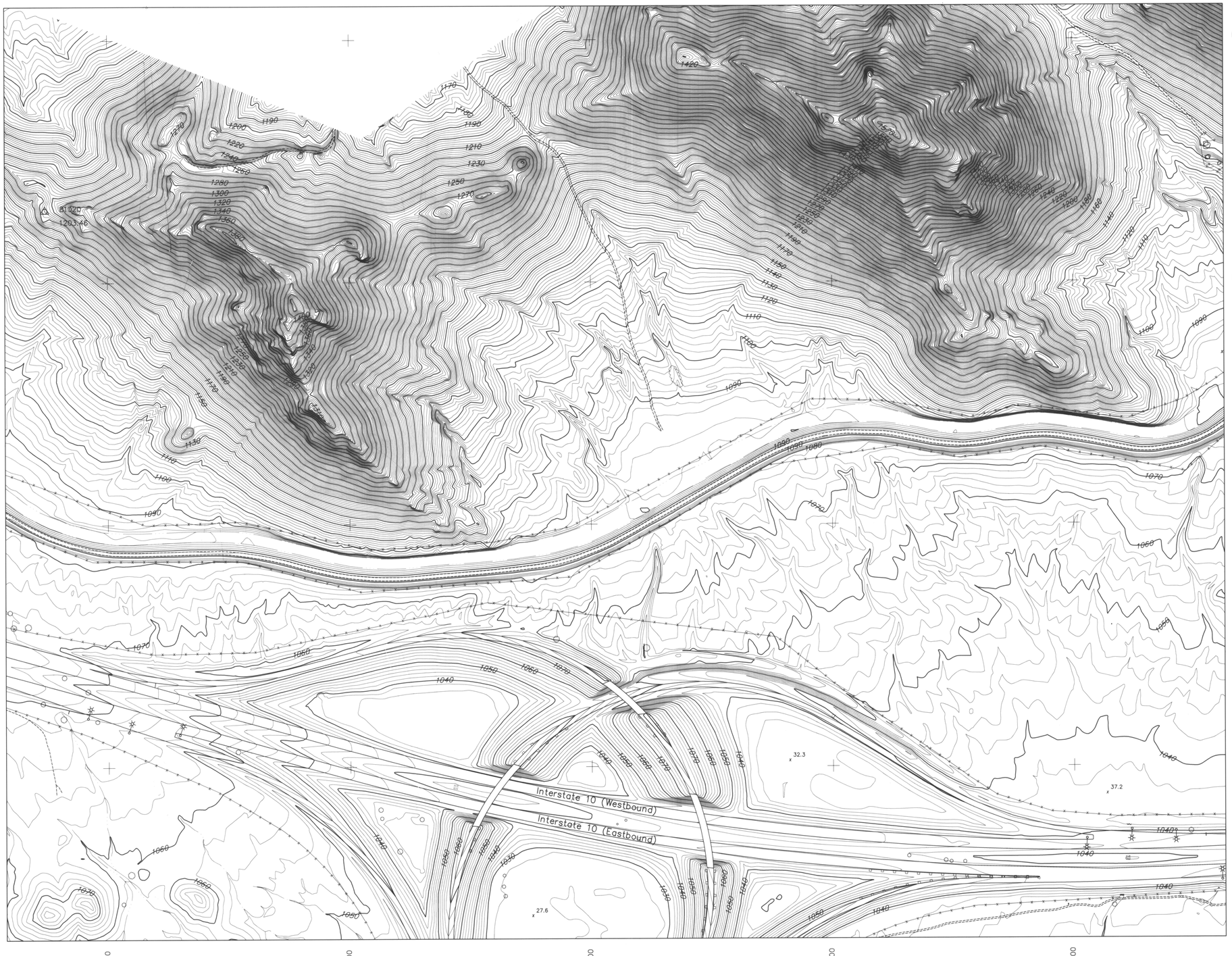
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 49 OF 191



FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

BUCKEYE/SUN VALLEY AREA DRAINAGE MASTER STUDY

"FCD CONTRACT # 2001C020"

LEGEND

- BUILDING
- PAVED ROAD
- DIRT ROAD/TRAIL
- RAILROAD
- 1110 INDEX CONTOUR
- INTERMEDIATE CONTOUR
- WASH/ DRAINAGE/WATERLINE
- IRRIGATION DITCH/CANAL
- TREE LINE
- x 21.4 SPOT ELEVATION
- HORIZONTAL & VERTICAL CONTROL POINT
- FENCE
- WALL
- OBSCURED AREA
- TRAFFIC SIGNAL
- CATCH BASIN
- TRANSMISSION LINE TOWER
- POLE
- SINGLE POST SIGN
- FH FIRE HYDRANT
- BACK-TO-BACK SIGN POST
- FLAG
- STREET LIGHT
- VALVE
- CATTLE GUARD
- LIGHT POLE
- POST
- PALM TREE
- ERM POINT
- MANHOLE

0 200' 400' 600'

SCALE: 1" = 200'

CONTOUR INTERVAL = 2 FEET

REGISTERED LAND SURVEYOR CERTIFICATE NO. 33313 BYRON E. JOHNSON

I hereby certify that this map has been produced by Photogrammetric methods and meets National Mapping accuracy standards for a 2' contour interval map at a scale of 1"=200', based on ground control survey data provided by Hultt-Zollars & Project Engineering Consultants.

12-20-03

Horizontal Control Datum: AZ Coordinate System of 1983 Central Zone

Vertical Control Datum: NAVD 88

FLOWN BY: KENNEY AERIAL MAPPING INC.

FLIGHT DATES: MARCH 27, 2002 & APRIL 8, 2002

	BY:	DATE:
DESIGN:	–	–
DESIGN. CHK.	–	–
PLANS:	–	–
PLANS CHK.	–	–

SUBMITTED BY: DATE:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 50 OF 191