## **ORIGINAL**

1

BOOK 5464

## UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FIELD NOTES

OF THE

#### DEPENDENT RESURVEY OF

Under Special Instructions dated  $\underline{May 7, 1996}$ , approved  $\underline{May 8, 1996}$ , which provided for the surveys included under Group Number  $\underline{801}$ , and assignment instructions dated  $\underline{May 8, 1996}$ .

Survey Commenced May 13, 1996 Survey Completed June 26, 1996

## BOOK 5464 INDEX DIAGRAM

TOWNSHIP 1 NORTH , RANGE 4 EAST ,

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#### Township 1 North, Range 4 East Gila and Salt River Meridian, Arizona

#### CHAINS

The following field notes describe the dependent resurvey of a portion of the north boundary, a portion of the subdivisional lines, the subdivision of sections 4 and 5, and a metes-and-bounds survey, Township 1 North, Range 4 East, Gila and Salt River Meridian, Arizona.

The exterior boundaries and the subdivisional lines were surveyed by W. F. Ingalls in 1868. A portion of the north boundary and a portion of the subdivisional lines was dependently resurveyed by Francis E. Joy in 1931.

The survey was executed in accordance with the specifications as set forth in the <u>Manual of Surveying Instructions</u>, 1973, and the Special Instructions dated May 7, 1996, for Group No. 801, Arizona.

Preliminary to the resurvey, the lines of the original survey were retraced and search was made for all corners and other calls of the record. Identified corners were remonumented in their original positions; lost corners were restored and monumented at proportionate positions based on the original record. The retracement data were thoroughly verified and only the true line field notes are given herein.

The directions of all lines were determined by direct hour angle observations on the sun, verified by geodetic inverse, and refer to the true meridian. Distances and angles were measured with a Sokkia Set 2B II total station instrument.

The geographic position of the 1/4 section corner of sections 4 and 9 was determined by the technique of static differential positioning using Ashtech models M-XII and MS-XII geodetic units. U.S. Coast and Geodetic Survey triangulation stations "PAPAGO" and "GUN" were used as the control stations. The coordinates refer to the top of the monument.

Latitude: 33°27'03.36" N. Longitude: 111°57'06.61" W. NAD27

The mean magnetic declination, as taken from quadrangle map TEMPE, ARIZ., published in 1952, and photorevised in 1982, by U.S. Geological Survey, is 13° E.

Dependent Resurvey of a Portion of the North Boundary T. 1 N., R. 4 E., Gila and Salt River Meridian, Arizona

#### CHAINS

Reestablishment of the Survey Executed by W. F. Ingalls, in 1868

Beginning at the cor. of secs. 3, 4, 33 and 34, on the N. bdy. of the Tp., monumented with an iron post of unknown origin, 1 in. diam., 30 ins. long, firmly set, filled with concrete, projecting 1 in. above ground, with no visible markings. This is accepted as the best available evidence of the original cor. position.

At the corner point

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 28 ins. in the ground, with brass cap mkd.

T2N	R4E	
S33	S34	
S4	S3	
TİN 1996		

#### from which

The azimuth mark for tri-station "BATON", monumented with a brass tablet, 3 1/2 ins. diam., firmly set in concrete, flush with the surface of ground, mkd. AZ MK BATON and an arrow, bears S. 23°37' E., 122 lks. dist.

An XBO, chiseled in concrete, on top of the back of curb, on the E. side of Galvin Parkway, bears S. 58°23' W., 70 lks. dist.

Deposit a magnet in a 1  $\times$  1  $\times$  2 5/8 ins. white plastic case beneath the stainless steel post.

Cor. is located near the SE cor. of the intersection of Galvin Parkway and McDowell Road.

S. 89°41' W., between secs. 4 and 33.

Along the southerly side of McDowell Road, over rolling terrain.

40.73 The 1/4 sec. cor. of secs. 4 and 33, monumented with a drill hole on the top of a concrete and stone seat, in an outdoor ampitheatre, with the chiseled marks 1/4 alongside. This is accepted as the best available evidence of the original cor. position.

At the corner point

Dependent Resurvey of a Portion of the North Boundary T. 1 N., R. 4 E., Gila and Salt River Meridian, Arizona

#### CHAINS

Seat a brass tablet,  $3\ 1/4$  ins. diam.,  $3\ 1/2$  ins. stem, in a drill hole, and in adhesive concrete, with top mkd.

T2N R4E S33 1/4 —— S4 T1N 1996

Cor. is located in the 11th row from the bottom of an outdoor ampitheatre. The location of the monument is generally in the center-west seating of this facility.

S. 89°47′ W., beginning new measurement.

#### 23.66 | Point for AP 1, hereinafter described.

40.51 Point for the cor. of secs. 4, 5, 32 and 33, at proportionate distance; there is no remaining evidence of the original corner.

Set an steel alloy nail, 3 ins. long, tapered, with a round head, flush with pavement, stamped SURVEY MARK and a dimple in the center.

from which

An X BO, chiseled in concrete, on top of the back of curb, on the N. side of McDowell Road, bears N.  $41^{\circ}11'$  W.,  $25\ 1/2$  lks. dist.

A stainless steel post, 28 ins. long, 2 1/2 ins. diam., firmly set, 22 ins. in the ground, for a reference monument, bears N. 1°27′ W., 69.6 ft. dist., with cap mkd. RM T2N R4E 69.6 FT TO COR S33 1996 with an arrow pointing to the cor.

Cor. is located in the northerly turn lane on west-bound McDowell Road that terminates at the main entrance of the Arizona National Guard facility.

S. 89°47′ W., bet. secs. 5 and 32.

Along traffic lanes of McDowell Road.

Dependent Resurvey of a Portion of the North Boundary T. 1 N.. R. 4 E.. Gila and Salt River Meridian. Arizona

	T. 1 N., R. 4 E., Gila and Salt River Meridian, Arizona
CHAINS	
40.51	The 1/4 sec. cor. of secs. 5 and 32, monumented with a brass tablet, 3 1/2 ins. diam., firmly set in concrete, in a hand-hole, mkd. CITY OF PHOENIX 19. This is accepted as the best available evidence of the original cor. position. Not remonumented.
	Cor. is located at the intersection of McDowell Road and 52nd St.
	N. 89°32′ W., beginning new measurement.
40.34	The cor. of secs. 5, 6, 31 and 32, monumented with a brass tablet, 3 1/2 ins. diam., firmly set in concrete, in a hand-hole, mkd. CITY OF PHOENIX 19. This is accepted as the best available evidence of the original cor. position. Not remonumented.
	Cor. is located at the intersection of McDowell Rd. and 48th St.
	Dependent Resurvey of a Portion of the Subdivisional Lines, T. 1 N., R. 4 E., Gila and Salt River Meridian, Arizona.
	Reestablishment of the Resurvey Executed by Francis E. Joy, in 1931
	From the 1/4 sec. cor. of secs. 3 and 4, monumented with an iron post, 1 in. diam., firmly set, projecting 14 ins. above ground, in a supporting mound of stone, 6 ft. base, 1 ft. high, with brass cap mkd. 1/4 S4 S3 1931. Add the marks T1N R4E 1996 on the brass cap. Not remonumented.
	Cor. is located S. of Phoenix Botanical Gardens.
	N. 1°51' E., bet. secs. 3 and 4.
41.09	The cor. of secs. 3, 4, 33 and 34, on the N. bdy. of the Tp., hereinbefore described.
	From the 1/4 sec. cor. of secs. 4 and 9, monumented with an iron post, 1 in. diam., firmly set, projecting 6 ins. above ground, in a mound of stone, 2 ft. base, 1 ft. high, with brass cap mkd. 1/4 S4 S9 1931. Add the marks T1N R4E 1996 on the brass cap. Not remonumented.
	N. 89°46′ W., bet. secs. 4 and 9.
39.69	The cor. of secs. 4, 5, 8 and 9, monumented with an iron pipe, 1 1/4 ins. diam., firmly set, 3 ins. below pavement, from which a witness cor. established in the 1931 resurvey

Dependent Resurvey of a Portion of the Subdivisional Lines T. 1 N., R. 4 E., Gila and Salt River Meridian, Arizona

#### CHAINS

An iron post, 1 in. diam., firmly set, surrounded by concrete of a sidewalk, flush with surface, bears N. 45° W., 71 lks. dist.

Not remonumented.

Cor. is located approximately 1/2 chain westerly of the intersection of Van Buren and 56th St.

Reestablishment of the Survey Executed by W. F. Ingalls, in 1868

N. 0°31' E., bet. secs. 4 and 5.

Through the Papago Golf Course of the City of Phoenix.

40.21

The 1/4 sec. cor. of secs. 4 and 5, monumented with a nail, 1/8 in. diam., 6 ins. long, firmly set, 1 ft. below the surface of ground, over a badly corroded nail, 1/8 ins. diam., 4 ins. long. This position agrees with City of Phoenix 1/4 Section Maps, and is accepted as the best available evidence of the original cor. position.

At the cor. point.

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 32 ins. in the ground, with brass cap mkd.

T1N R4E 1/4 S5 | S4 1996

Deposit a magnet in a 1  $\times$  1  $\times$  2 5/8 ins. white plastic case and the local nails beneath the stainless steel post.

Cor. is located E. of the Number 7 Green and W. of Number 10 Fairway of the Papago Golf Course of the City of Phoenix.

N. 0°28' E., beginning new measurement.

19.85

Point for the N. 1/16 sec. cor. of secs. 4 and 5.

Dependent Resurvey of a Portion of the Subdivisional Lines T. 1 N., R. 4 E., Gila and Salt River Meridian, Arizona

,	1. I N., R. 4 L., GITA AND SAIL RIVER MENTAN, AN IZONA
CHAINS	
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 29 ins. in the ground, with brass cap mkd.
	T1N R4E
	N 1/16 S5   S4
	1996
	Deposit a magnet in a 1 $\times$ 1 $\times$ 2 5/8 ins. white plastic case beneath the stainless steel post.
	Cor. is located E. of the parking lot and W. of the driving range of the Papago Golf Course of the City of Phoenix.
22.30	Intersect line 6-7 of the metes-and-bounds survey, at a point from which AP 6 bears S. 75°29' E., 0.86 chs. dist., hereinafter described, and AP 7 bears N. 75°29' W., 0.89 chs. dist., hereinafter described.
40.26	The cor. of secs. 4, 5, 32 and 33, on the N. bdy. of the Tp., hereinbefore described.
	From the cor. of secs. 4, 5, 8 and 9.
	N. 89°39′ W., between secs. 5 and 8.
	Along the apparent center line of Van Buren.
40.04	The 1/4 sec. cor. of secs. 5 and 8, monumented with a brass tablet, 3 1/2 ins. diam., firmly set in concrete, in a hand-hole, mkd. CITY OF PHOENIX 19. This is accepted as the best available evidence of the original cor. position. Not remonumented.
	Cor. is located in the south-bound turn lane near the SW cor. of 52nd St. and Van Buren.
	N. 89°40' W., beginning new measurement.
40.04	The cor. of secs. 5, 6, 7 and 8, monumented with a rebar, 1/2 ins. diam., origin unknown, firmly set, flush with pavement. This is accepted as the best available evidence of the original cor. position. Not remonumented.
	Cor. is located at the intersection of Van Buren and 48th St.
	N. O°O6' W., between secs. 5 and 6.
	Along the apparent center line of 48th St.

## Dependent Resurvey of a Portion of the Subdivisional Lines T. 1 N., R. 4 E., Gila and Salt River Meridian, Arizona

	I. 1 N., R. 4 E., Gila and Sait River Meridian, Arizona
CHAINS	
40.00	The 1/4 sec. cor. of secs. 5 and 6, monumented with a brass tablet, 3 1/2 ins. diam., firmly set in concrete, in a hand-hole, mkd. CITY OF PHOENIX 19. This is accepted as the best available evidence of the original cor. position. Not remonumented.
	Cor. is located in the apparent center line of 48th. St.
	N. 0°03' W., beginning new measurement.
40.16	The cor. of secs. 5, 6, 31 and 32, on the N. bdy. of the Tp., hereinbefore described
	Subdivision of Section 4 T. 1 N., R. 4 E., Gila and Salt River Meridian, Arizona
	From the 1/4 sec. cor. of secs. 4 and 9.
	N. 1°04' E., on the N. and S. center line of sec. 4.
40.15	Point for the center 1/4 sec. cor. of sec. 4, at intersection with the E. and W. center line of sec. 4
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, encircled with a collar of stone, with brass cap mkd.
	T1N R4E C1/4 S4 1996
	Deposit a magnet in a 1 $\times$ 1 $\times$ 2 5/8 ins. white plastic case beneath the stainless steel post.
60.08	Point for the center N. 1/16 sec. cor. of sec. 4.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 16 ins. in the ground, to bedrock, in a mound of stone, 3 ft. base, to top, with brass cap mkd.
	T1N R4E
	N 1/16   S4
	C 1996
	from which

#### Subdivision of Section 4

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CHAINS	
	Tri-station "GUN", monumented with a brass tablet, 3 1/2 ins. diam., firmly set in concrete, flush with the surface of ground, bears S. 27°30′ E., 1.01 chs. dist., mkd. GUN 1963 with a triangle. Reference monuments were present and in good order and used to verify the position of the station.
	Deposit a magnet in a 1 $\times$ 1 $\times$ 2 5/8 ins. white plastic case beneath the stainless steel post.
80.78	The 1/4 sec. cor. of secs. 4 and 33, on the N. bdy. of the Tp.
	From the 1/4 sec. cor. of secs. 3 and 4.
	N. 89°41' W., on the E. and W. center line of sec. 4.
40.16	The center 1/4 sec. cor. of sec. 4.
80.24	The 1/4 sec. cor. of secs. 4 and 5.
	From the center N. 1/16 sec. cor. of sec. 4.
	N. 89°48' W., on the E. and W. center line of the NW 1/4 of sec.
40.29	The N. 1/16 sec. cor. of secs. 4 and 5.
	Subdivision of Section 5 T. 1 N., R. 4 E., Gila and Salt River Meridian, Arizona
	From the 1/4 sec. cor. of secs. 5 and 8.
	N. 0°09' E., on the N. and S. center line of sec. 5.
	Along 52nd Street.
40.10	The center 1/4 sec. cor. of sec. 5, monumented with a brass tablet, 3 1/2 ins. diam., firmly set, in concrete, in a hand hole, mkd. CITY OF PHOENIX 19. This is accepted as a careful and faithful establishment of the cor. position. Not remonumented.
	Cor. is located in the apparent center line of 52nd Street.
	N. 0°09' E., beginning new measurement.

#### Subidivision of Section 5

	1. I N., R. 4 E., GITA AND SAIL RIVER METHODA, ANIZONA
19.62	The center N. 1/16 sec. cor. of sec. 5, monumented with a brass tablet, 3 1/2 ins. diam., firmly set, in concrete, in a hand hole, mkd. CITY OF PHOENIX 19. This is accepted as a careful and faithful establishment of the cor. position. Not remonumented.
	Cor. is located in the apparent center line of 52nd Street.
	N. O°09' E., beginning new measurement.
20.35	The 1/4 sec. cor. of secs. 5 and 32, on the N. bdy. of the Tp.
	From the 1/4 sec. cor. of secs. 4 and 5.
	N. 89°48' W., on the E. and W. center line of sec. 5.
40.28	The center 1/4 sec. cor. of sec. 5.
	N. 89°48′ W., beginning new measurement.
40.20	The 1/4 sec. cor. of secs. 5 and 6.
	From the N. 1/16 sec. cor. of secs. 4 and 5.
	S. 89°53' W., on the E. and W. center line of the NE 1/4 of sec. 5.
10.29	Point for AP 10, hereinafter described.
40.39	The center N. 1/16 sec. cor. of sec. 5.
	Metes-and-Bounds Survey T. 1 N., R. 4 E., Gila and Salt River Meridian, Arizona
	From the point for AP 1, on the N. bdy. of the Tp.
	Set an steel alloy nail, 3 ins. long, tapered, with a round head, flush with pavement, stamped SURVEY MARK and a dimple in the center.
	from which
	An X and an arrow pointing to AP 1, chiseled in concrete, on top of the back of curb, on the N. side of McDowell Road, bears N. 4°12′ W., 10 lks. dist.

#### Metes-and-Bounds Survey

CHAINS	
	Cor. is located in the northerly west-bound lane of McDowell Road.
	S. 15°33' W., on line 1-2.
	Across McDowell Road.
2.39	Point for AP 2.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, with brass cap mkd.
	T1N R4E S4 / AP2 1996
	Deposit a magnet in a 1 $\times$ 1 $\times$ 2 5/8 in. white colored plastic case beneath the stainless steel post.
	Cor. is located 3 lks. NE of a cor. of fences, chain link, 7 ft. high, with fences extending W. and SSW.
	S. 15°32′ W., on line 2-3.
	Along the easterly side of a chain link fence.
6.00	Point for AP 3.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, with brass cap mkd.
	T1N R4E S4 AP3 1996
	Deposit a magnet in a 1 $\times$ 1 $\times$ 2 5/8 in. white colored plastic case beneath the stainless steel post.
	Cor. is located 2 lks. SE of a cor. of fences, chain link, 7 ft. high, with fences extending NNE and SW.
	S. 53°13′ W., on line 3-4.
12.05	Point for AP 4.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 20 ins. in the ground, encircled with a collar of stone, with brass cap mkd.

#### Metes-and-Bounds Survey

#### T. 1 N., R. 4 E., Gila and Salt River Meridian, Arizona

CHAINS

T1N R4E S4 AP4 1996

Deposit a 1 in.  $\times$  7/8 ins. diam. magnet and an iron rail road spike beneath the stainless steel post.

Cor. is located 2 lks. southerly of a chain link fence, 7 ft. high, bears NE and SW.

S. 53°50′ W., on line 4-5.

1.37 | Point for AP 5.

Seat a brass tablet, 3 1/4 ins. diam., 3 1/2 in. stem, in concrete, with top mkd.

T1N R4E S4 AP5 1996

Deposit a 1 in.  $\times$  7/8 ins. diam. magnet and an iron rail road spike beneath the brass tablet and concrete.

Cor. is located 2 lks. southerly of a chain link fence, 7 ft. high, bears NE and SW.

S. 55°59' W., on line 5-6.

3.81 Point for AP 6.

Seat a brass tablet, 3 1/4 ins. diam., 3 1/2 in. stem, in concrete, with top mkd.

T1N R4E S4 AP6 1996

Deposit a 1 in.  $\times$  7/8 ins. diam. magnet and an iron rail road spike beneath the brass tablet and concrete.

N. 75°29' W., on line 6-7.

#### Metes-and-Bounds Survey

CHAINS	1. I N., R. 4 E., Gila and Sait River Meridian, Arizona
CHAINS	
0.86	Intersect the line bet. secs. 4 and 5, at a point from which the cor. of secs. 4, 5, 32 and 33, hereinbefore described, bears N. 0°28' E., 17.96 chs. dist., and the N. 1/16 sec. cor. of secs. 4 and 5, hereinbefore described, bears S. 0°28' W., 2.45 chs. dist.
1.75	Point for AP 7.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, with brass cap mkd.
	T1N R4E S5
	AP7 1996
	Deposit two iron rail road spikes beneath the stainless steel post.
	Cor. is located 3 lks. southerly of a block wall, 6 ft. high, bears NE and SW.
	S. 65°05′ W., on line 7-8.
4.83	Point for AP 8.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, with brass cap mkd.
	T1N R4E S5
	AP8 1996
	Deposit two iron rail road spikes beneath the stainless steel post.
	Cor. is located 3 lks. southerly of an angle point of a block wall, 6 ft. high, bears NE and W.
	S. 89°35′ W., on line 8-9.
4.35	Point for AP 9.
	Seat a brass tablet, 3 1/4 ins. diam., 3 1/2 in. stem, in concrete, with top mkd.

#### Metes-and-Bounds Survey

#### T. 1 N., R. 4 E., Gila and Salt River Meridian, Arizona

CHAINS

T1N R4E S5 AP9 1996

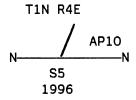
Deposit a magnet in a 1  $\times$  1  $\times$  2 5/8 in. white colored plastic case beneath the stainless steel post.

Cor. is located 3 lks. southerly of a block wall, 6 ft. high, bears E. and W.

S. 49°04′ W., on line 9-10.

O.95 Point for AP 10, at intersection with the E. and W. center line of the NE 1/4 of sec. 5.

Seat a brass tablet, 3 1/4 ins. diam., 3 1/2 in. stem, in concrete, with top mkd.



Deposit an iron rail road spike and a magnet in a 1  $\times$  1  $\times$  2 5/8 in. white colored plastic case beneath the brass tablet and concrete.

From this cor. point, the N. 1/16 sec. cor. of secs. 4 and 5, hereinbefore described, bears N. 89°53′ E., 10.29 chs. dist.

From this same cor. point, the center N. 1/16 sec. cor. of sec. 5, hereinbefore described, bears S. 89°53′ W., 30.10 chs. dist.

#### General Description

The land encompassed in this survey is located in the City of Phoenix, Arizona. Sections 4 and 5 are substantially bounded by McDowell Road on the north and Van Buren on the south.

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CHAINS	The land in this area is predominantly used for recreational and cultural purposes. The Papago Golf course and the Phoenix Botanical Gardens are located near or within the location of this survey. Numerous hiking and biking trails are scattered throughout the area.		
	The mean magnetic declination is 13° E.		

# BOOK 5464 UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

#### FIELD ASSISTANTS

NAMES	CAPACITY
Dale C. Wilson	Supervisory Cadastral Surveyor
Joe R. Salazar	Cadastral Surveyor
Dean E. Wiese	Geodesist
W. William Foster	Surveying Technician
Cheryl A. Baier	Surveying Technician
Geoffrey A. Graham	Surveying Technician
Robert J. Lyle	Surveying Technician

#### UKIGINAL

## BOOK 5464 CERTIFICATE OF SURVEY

I, Stephen K. Hansen, Cadastral Surveyor, HEREBY CERTIFY upon honor that, in pursuance of Special Instructions bearing date of the 7th day of May, 1996, I have dependently resurveyed a portion of the north boundary, a portion of the subdivisional lines, subdivided sections 4 and 5, and performed a metes-and-bounds survey in Township 1 North, Range 4 East, of the Gila and Salt River Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said special instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in specific manner described in the foregoing field notes.

Steppen Ko Hansen

07/25/96

(Date)	(Cadastral Surveyor)
	CERTIFICATE OF APPROVAL
	BUREAU OF LAND MANAGEMEN Arizona State Office Phoenix, Arizona
boundary, a portion of the and a metes-and-bounds surv Meridian, Arizona, executed	the dependent resurvey of a portion of the north subdivisional lines, the subdivision of sections 4 and 5, by in Township 1 North, Range 4 East, Gila and Salt River by Stephen K. Hansen, Cadastral Surveyor, having been ad correct, are hereby approved.
(Date)	(Acting Chief Cadastral Surveyor of Arizona)
•	- CERTIFICATE OF TRANSCRIPT
	transcript of the field notes of the above-described Gila and Salt River Meridian, Arizona, is a true copy of
(Date)	(Acting Chief Cadastral Surveyor of Arizona).