

ORIGINAL

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

FIELD NOTES
OF THE
DEPENDENT RESURVEY OF A PORTION
OF THE EAST BOUNDARY
AND
A PORTION OF
THE SUBDIVISIONAL LINES
TOWNSHIP 1 NORTH, RANGE 4 EAST,
OF THE GILA AND SALT RIVER MERIDIAN,
IN THE STATE OF ARIZONA.

EXECUTED BY

Gordon R. Bubel, Cadastral Surveyor

Under Special Instructions dated February 3, 2010, approved February 3, 2010, which provided for the surveys included under Group No. 1076, and assignment instructions dated February 3, 2010.

Survey commenced February 10, 2010

Survey completed March 16, 2010

INDEX DIAGRAM

TOWNSHIP 1 NORTH RANGE 4 EAST
GILA AND SALT RIVER MERIDIAN, ARIZONA

6	5	4	3	2	1
7	8	9	10	11	12 4 7
18	17	16	15	14	13 6
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

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

CHAINS

The following field notes describe the dependent resurvey of a portion of the east boundary and a portion of the subdivisional lines, Township 1 North, Range 4 East, Gila and Salt River Meridian, Arizona.

The history of surveys pertaining to this survey is as follows: W.F. Ingalls surveyed the east boundary and the subdivisional lines in 1868. Robert A. Farmer in 1910 resurveyed portions of the east boundary and subdivisional lines and subdivided section 1 and 12. Francis E. Joy, retraced a portion of the east boundary and remonumented the 1/4 section corner of sections 7 and 12 in 1931. Boyd S. Owens and Paul G. Bauer, resurveyed a portion of the east boundary in 1962.

The survey was executed in accordance with the specifications as set forth in the Manual of Surveying Instructions for the Survey of the Public Lands of the United States, 2009, and the Special Instructions dated February 3, 2010, for Group Number 1076, Arizona.

The true meridian direction and length of all lines were determined by real time kinematic global positioning system observations using Trimble Navigation 5700 model receivers.

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

Geodetic control was derived from Global Positioning System (GPS) static observations post processed by National Geodetic Survey, Online Positioning User Service (OPUS), utilizing Continuously Operating Reference Stations (CORS) AZTP TEMPE CORS ARP, AZSC CNTR FOR ARTS CORS ARP, COSA SCOTTSDALE CORS ARP.

The NAD 83 (CORS96) (EPOCH: 2002), geographic position of the 1/4 section corner of sections 13 and 18, on the east boundary of the township, is as follows:

Latitude: 33°25'45.48" N. Longitude: 111°53'30.35" W.

The mean magnetic declination is 11° E.

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

CHAINS	
	<p style="text-align: center;">Restoring the resurvey executed by Boyd S. Owens and Paul G. Bauer in 1962</p> <hr style="width: 20%; margin: auto;"/> <p>Beginning at the cor. of secs. 1, 6, 7 and 12, on the E. bdy. of the Tp., monumented with an aluminum disk, 3 ins. diam., seated in concrete, 9 ins. below the pavement, set inside a 10 ins. diam. survey well, with disk mkd. A.D.O.T. HIGHWAY DIV. 19. This is accepted as the best available evidence of the orig. cor.</p> <p>Cor. is located within McKellips Road (bears E. and W), 67 lks. N. of the south edge of pavement.</p> <p>There is no remaining evidence of the 1962 bearing objects.</p> <p>S. 0°21' W., bet. secs. 7 and 12.</p> <p>Over nearly level land, on a graded road, within the Salt River Pima Maricopa Indian Community (SRPMIC).</p> <p>20.015 Point for the N. 1/16 sec. cor. of secs. 7 and 12, at proportionate dist. there is no remaining evidence of the 1962 monument or accessories.</p> <p>Not remonumented.</p> <p>40.03 Point accepted for the 1/4 sec. cor. of secs. 7 and 12, occupied with a rebar, 1/2 in. diam., firmly set, 24 ins. below the surface. This is accepted as the best available evidence of the 1962 cor.</p> <p>At the corner point.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, over the rebar, in a collar of stone, with brass cap mkd.</p> <div style="text-align: center;"> <p>T 1 N 1/4 R 4 E R 5 E S 12 S 7</p> <p>2010</p> </div> <p>Deposit a magnet, in a white plastic case, at the base of the stainless steel post and set a steel fence post alongside and S. of the cor.</p> <p>Cor. is located on the easterly toe slope of an elevated graded road, bearing N. and S.</p>

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

CHAINS							
	<p>From this cor. point, a fence cor. bears S. 45° E., 6.5 lks. dist., with woven wire fences extending S. and E. The fence encloses a leased City of Mesa sewage pump station.</p> <hr/> <p>S. 0°23' W., beginning new measurement.</p>						
18.14	<p>From this point, a rebar 1/2 in. diam., firmly set, flush with the surface, bears E. 8 lks. dist., unknown origin.</p>						
20.00	<p>Point for the S. 1/16 sec. cor. of secs. 7 and 12, at record course and dist., there is no remaining evidence of the 1962 cor.</p> <p>Not monumented.</p>						
22.88	<p>Point for the meander cor. of secs. 7 and 12, at record course and dist., on the right bank of the Salt River as recorded in 1910, there is no remaining evidence of the 1962 cor.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 27 ins. in the ground, in a collar of stone, with brass cap mkd.</p> <p style="text-align: center;">T 1 N</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding: 0 5px;">R 4 E</td> <td style="border-left: 1px solid black; padding: 0 5px;">R 5 E</td> </tr> <tr> <td style="padding: 0 5px;">S 12</td> <td style="border-left: 1px solid black; padding: 0 5px;">S 7</td> </tr> </table> <p style="text-align: center;">MC 2010</p> <p>Deposit a magnet, in a white plastic case, at the base of the stainless steel post and set a steel fence post alongside and S. of the cor.</p> <hr/> <p>S. 0°33' E., beginning new measurement.</p>	R 4 E	R 5 E	S 12	S 7		
R 4 E	R 5 E						
S 12	S 7						
5.18	<p>Point selected for a witness point.</p> <p>Set a brass tablet, 3 1/4 ins. diam., 3 1/2 ins. stem, cemented in a drill hole, with top mkd.</p> <p style="text-align: center;">WP</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td colspan="2" style="text-align: center;">T 1 N</td> </tr> <tr> <td style="padding: 0 5px;">R 4 E</td> <td style="border-left: 1px solid black; padding: 0 5px;">R 5 E</td> </tr> <tr> <td style="padding: 0 5px;">S 12</td> <td style="border-left: 1px solid black; padding: 0 5px;">S 7</td> </tr> </table> <p style="text-align: center;">2010</p> <p>Deposit a magnet, in a white plastic case, at the base of the brass tablet.</p>	T 1 N		R 4 E	R 5 E	S 12	S 7
T 1 N							
R 4 E	R 5 E						
S 12	S 7						

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

CHAINS										
	<p>Cor. is located atop a levee, 25 ft. wide, 30 ft. high, bears N. 60° E. and S. 60° W.</p> <p>thence; descend into Salt River.</p>									
7.235	<p>Point for the S-S. 1/64 sec. cor. of secs. 7 and 12, at proportionate dist., there is no remaining evidence of the 1962 monument or accessories.</p> <p>Cor. is located within the active channel of the Salt River, not monumented.</p>									
17.35	<p>Point for the cor. of secs. 7, 12, 13 and 18, at proportionate dist., by the method of irregular boundary adjustment, there is no remaining evidence of the 1962 monument or accessories.</p> <p>Cor. is located within the active channel of the Salt River, beneath the interchange of State Routes 101 and 202, not monumented.</p> <hr/> <p>S. 1°41' E., bet. secs. 13 and 18.</p> <p>Within the active channel of the Salt River, departing from the SRPMIC.</p>									
3.17	<p>Point selected for a witness point.</p> <p>Set a brass tablet, 3 1/4 ins. diam., 3 1/2 ins. stem, cemented in a drill hole, with top mkd.</p> <div style="text-align: center;"> <p>WP</p> <table border="0"> <tr> <td></td> <td>T 1 N</td> <td></td> </tr> <tr> <td>R 4 E</td> <td> </td> <td>R 5 E</td> </tr> <tr> <td>S 13</td> <td> </td> <td>S 18</td> </tr> </table> <p>2010</p> </div> <p>Deposit a magnet, in a white plastic case, at the base of the brass tablet.</p> <p>Cor. is located atop a levee, 25 ft. wide, 30 ft. high, bears E. and W.</p>		T 1 N		R 4 E		R 5 E	S 13		S 18
	T 1 N									
R 4 E		R 5 E								
S 13		S 18								
41.17	<p>The 1/4 sec. cor. of secs. 13 and 18, monumented with a disk, set in a 10 ins. diam. survey well, 6 ins. below the pavement. This is accepted as the best available evidence of the orig. corner.</p>									

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

CHAINS

Cor. is located in the most southerly lane of Rio Salado Parkway, bears E. and W., 23 lks. N. of the S. curb. The survey well was filled with water, and the markings on the cap were not identified.

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

Restoring the resurvey executed by
Robert A. Farmer, in 1910

From the cor. of secs. 11, 12, 13 and 14, monumented with a brass disk, 3 ins. diam., seated in concrete, 5 ins. below the pavement, set inside a 10 ins. diam. survey well, with disk mkd. MARICOPA COUNTY 19. This is accepted as the best available evidence of the orig. cor.

Cor. is located in the most easterly lane of south bound McLintock Drive.

N. 89°56' E., bet. secs. 12 and 13, on the SRPMIC bdy.

20.36 The W. 1/16 sec. cor. of secs. 12 and 13, perpetuated by the Arizona Department of Transportation, monumented with a 3 ins. diam. aluminum disk, set in concrete, flush with the surface, with top mkd. A.D.O.T. HIGHWAY DIV 19. This is accepted as a careful and faithful perpetuation of the orig. cor. position.

An angle iron, 4 ins. wide, stenciled STA 309 + 69.30 on a face and HWY R.O.W. on opposite face, bears W., 5 lks. dist.

Cor. is located atop a levee, 20 ft. high, 17 ft. wide, bears E. and W.

N. 89°56' E., beginning new measurement.

15.12 Point for the meander cor. of sec. 12, at record dist., on the right bank of the Salt River as recorded in 1910, there is no remaining evidence of the 1910 cor. or accessories.

Not monumented.

Restoring the survey executed by
W.F. Ingalls in 1868

N. 89°56' E., beginning new measurement, continuing on the SRPMIC bdy.

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

CHAINS	
3.30	Leave levee, descending into active channel of Salt River.
5.24	<p>The 1/4 sec. cor. of secs. 12 and 13, perpetuated by the Arizona Department of Transportation, monumented with a 3 ins. diam. aluminum disk, set in concrete, flush with the surface, with top mkd. A.D.O.T. HIGHWAY DIV 19. This is accepted as a careful and faithful perpetuation of the orig. cor. position.</p> <p>An angle iron, 4 ins. wide., stenciled STA 323 + 12.85 on a face and HWY R.O.W. on opposite face, bears W., 3 lks. dist.</p> <p>Cor. is located at toe of levee, bears N. 80° E. and S. 80° W. thence; within active channel of Salt River.</p> <hr/> <p>S. 89°58' E., beginning new measurement.</p>
40.73	<p>The point for the cor. of secs. 7, 12, 13 and 18, on the E. bdy. of the Tp., hereinbefore described.</p> <hr/>
GENERAL DESCRIPTION	
<p>The area resurveyed is located within and adjacent to the Salt River Pima-Maricopa Indian Community. The south boundary of the Salt River Pima-Maricopa Indian Community between sections 12 and 13, is identical with the north boundary of the City of Tempe. The line between sections 7 and 12, on the east boundary of the township is within the Salt River Pima-Maricopa Indian Community.</p> <p>The channelized Salt River, enters the area surveyed near the reestablished point for the corner of sections 7, 12, 13 and 18, flows in a general west direction and departs the area surveyed near the reestablished point for the meander corner of section 12 on the 1910 right bank of the Salt River. State Route No. 101 is immediately west of the line between sections 7 and 12.</p> <p>The mean magnetic declination of 11° E. was derived from the United States Geological Survey computer program GEOMAG, utilizing the World Magnetic Model for Epoch 2005-2010 for the dates of survey.</p> <hr/>	

CERTIFICATE OF SURVEY

I, Gordon R. Bubel, Cadastral Surveyor, HEREBY CERTIFY upon honor, that in pursuance of special instructions bearing date of the 3rd day of February, 2010, I have dependently resurveyed a portion of the east boundary, and a portion of the subdivisinal lines, 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. Said survey has been made in strict conformity with said special instructions, the Manual of Surveying Instructions for the Survey of the Public Lands of the United States, 2009, and in specific manner described in the foregoing field notes.

Aug. 4, 2011

(Date)

Gordon R. Bubel

(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT
Phoenix, Arizona

The foregoing field notes of the dependent resurvey of a portion of the east boundary and a portion of the subdivisinal lines, Township 1 North, Range 4 East, Gila and Salt River Meridian, in the State of Arizona, executed by Gordon R. Bubel, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

9/26/2011

(Date)

Danny J. West

(Chief Cadastral Surveyor of Arizona)

~~CERTIFICATE OF TRANSCRIPT~~

~~I CERTIFY That the foregoing transcript of the field notes of the above described surveys in Township 1 North, Range 4 East, Gila and Salt River Meridian, in the state of Arizona, is a true copy of the original field notes.~~

~~(Date)~~

~~(Chief Cadastral Surveyor of Arizona)~~