

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF

THE DEPENDENT RESURVEY OF

A PORTION OF THE SUBDIVISIONAL LINES,

AND

THE DEPENDENT RESURVEY OF

A PORTION OF THE SUBDIVISION OF SECTIONS 3 AND 10,

AND

THE SURVEY OF

A PORTION OF THE SUBDIVISION OF SECTIONS 3 AND 10,

AND

THE METES AND BOUNDS SURVEY IN SECTIONS 3 AND 10,

IN

TOWNSHIP 42 SOUTH, RANGE 14 WEST,

OF THE SALT LAKE MERIDIAN
IN THE STATE OF UTAH

EXECUTED BY

Dale A. Graff
Cadastral Surveyor

Under Special Instructions dated *July 12, 2010*, approved *July 12, 2010*,
which provided for the surveys included under Group Number *1148*, and
Assignment Instructions dated *July 12, 2010*.

Survey Commenced, *July 12, 2010*
Survey Completed, *August 10, 2010*

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TOWNSHIP 42 SOUTH, RANGE 14 WEST, SALT LAKE MERIDIAN, UTAH.

The following field notes are those of the dependent resurvey of a portion of the subdivisional lines, the dependent resurvey of a portion of the subdivision of sections 3 and 10, the survey of a portion of the subdivision of sections 3 and 10, and the metes and bounds survey in sections 3 and 10, in T. 42 S., R. 14 W., Salt Lake Meridian, Utah.

HISTORY OF SURVEYS

	Surveyed by		Retr. or Resurveyed by	
SOUTH BOUNDARY				
All	M.H. Dalley	1899		
All			Stewart & Snow	1909
All			C.P. Sylvester & Etal.	1978
Portion			L.V. Judd	2003
EAST BOUNDARY (Second Guide Meridian)				
All	J. Bausman	1870		
All			Jenkins & West	1897
Portion			M.H. Dalley	1899
All			C.P. Sylvester & Etal.	1978
WEST BOUNDARY				
All	J. Gorlinski	1870		
All			M.H. Dalley	1899
Portion			C.P. Sylvester	1973
All			C.P. Sylvester & Etal.	1978
Portion			L.V. Judd	1998
Portion			L.V. Judd	2004-05
NORTH BOUNDARY				
All	J. Bausman	1870		
All			M.H. Dalley	1899
Portion			M.G. Mason	1918
All			C.P. Sylvester & Etal.	1978
Portion			R.A. Zaninovich	1986
Portion			R.A. Zaninovich	1988
SUBDIVISION				
All	J. Gorlinski	1870		
All	M.H. Dalley	1899	M.H. Dalley	1899
All			C.P. Sylvester & Etal.	1978
Portion			R.A. Zaninovich	1986
Portion			L.V. Judd	1998
Portion			L.V. Judd	2004-05

TOWNSHIP 42 SOUTH, RANGE 14 WEST, SALT LAKE MERIDIAN, UTAH.

The survey was executed in accordance with the specifications set forth in the Manual of Surveying Instructions, 2009, and the Special Instructions for Group No. 1148, dated July 12, 2010.

The directions of the lines were determined by references to true meridians, established by Global Positioning System (GPS) utilizing Real-Time Kinematic (RTK) techniques throughout the survey. The positional accuracy of this survey complies with the *Standards For the Positional Accuracy of Cadastral Surveys When Using Global Navigation Satellite Systems (GNSS)*, dated February 29, 2009. Trimble model 5800 GPS receivers were used for field collection. Cadastral Automated Plat Drafting (CAPD) software was the primary software utilized for project calculations.

Preliminary to the resurvey, the lines of the prior surveys were retraced and a 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 was thoroughly verified and only the true line field notes are given herein.

Geodetic Control was derived from GPS static observations, post processed by the National Geodetic Survey, Online Positioning User Service (OPUS), utilizing Continuously Operating Reference Stations (CORS): ECHO ECHO_BRGN_NV1999 CORS ARP, NVLM AMS WT FACILITY CORS ARP, FRED FREDONIA CORS ARP.

The geographic position of the corner of sections 2, 3, 10, and 11, T. 42 S., R. 14 W., as determined by direct RTK methods from the National Geodetic Survey OPUS solution, is as follows:

Latitude: **37°09'20.719" N.**,
Longitude: **113°24'12.542" W.**, N.A.D. 1983,
Network Accuracy = 0.200 meter at 95% confidence

DEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISIONAL LINES,
TOWNSHIP 42 SOUTH, RANGE 14 WEST, SALT LAKE MERIDIAN, UTAH.

CHAINS

Dependent Resurvey of a Portion of the Subdivisional Lines,
Township 42 South, Range 14 West, Salt Lake Meridian, Utah.

Reestablishment of the Survey Executed by J. Gorlinski in 1870,
and M.H. Dalley in 1899, and the Resurvey Executed by C.P.
Sylvester in 1978 and L. Judd in 1998.

From the 1/4 section corner of sections 10 and 11, monumented
with an iron post, 2 1/2 inches diameter, firmly set, in
concrete, projecting 3 inches above the concrete base, with brass
cap marked as described in the 1978 resurvey.

Corner is located on level ground, at the intersection of three
fence lines, extending S. 15° W., S. 80° E., and N. 10° E.

N. 0°08.2' E., between sections 10 and 11.

20.064 Point for the N 1/16 section corner of sections 10 and 11.

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 13
inches in the ground to bedrock, with magnet at base, in a mound
of stone, 2 1/2 ft. base, to top of aluminum cap marked:

N 1/16
S10 | S11
2010

Set a steel fence post alongside aluminum post.

Corner is located on mesa top on open ground, among large
boulders and grasses. A N-S chain link fence, 7 ft. high, with
barbed wire at top, bears W., 4 lks. distance, and a wire fence,
extends E., bears S., 11 lks. distance.

21.675 Angle Point 20 of the metes and bounds survey in section 10,
monumented with an aluminum rod, 1 inch diameter, firmly set,
projecting 4 inches above ground, with aluminum cap marked as
described in the official record of the 1998 survey.

Corner is located on open level ground, the top edge of a
vertical rim bears N., 21 lks. distance, extends S. 32° W. and N.
32° E., and a N-S chain link fence line bears W., 3 lks.
distance.

24.330 The meander corner of sections 10 and 11, on the left bank of the
Virgin River, monumented with an iron post, 2 1/2 inches
diameter, firmly set, 6 inches below grade, in a sand berm, with
brass cap marked as described in the official record of the 1978
resurvey.

Corner is located in thick tamarisk on level ground.

DEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISIONAL LINES,
 CHAINS TOWNSHIP 42 SOUTH, RANGE 14 WEST, SALT LAKE MERIDIAN, UTAH.

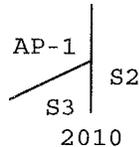
- 30.993** Point for the original meander corner for sections 10 and 11, on the right bank of the Virgin River, at proportionate distance; there is no remaining evidence of the original corner. This point falls on near vertical cut bank of the river and cannot be remonumented.
- 31.183** Point for the 1978 witness corner to the meander corner of sections 10 and 11, on the right bank of the Virgin River, at proportionate distance; there is no remaining evidence of the original corner. This point falls on exposed sandstone bedrock in an area of recent flooding, not remonumented.
- 40.128** The corner of sections 2, 3, 10, and 11, monumented with an iron post, 2 1/2 inches diameter, firmly set, in a mound of stone, 3 1/2 ft. base, to top of brass cap marked as described in the official record of the 1978 resurvey; with a mound of stone, 2 1/2 ft. base, 2 ft. high, with a steel fence post, west of corner.

Corner is located on a moderate E. facing slope, on open rocky ground.

N. 0°26.5' E., between sections 2 and 3.

- 17.809** Point for Angle Point 1, of the metes and bounds survey in sections 3 and 10.

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 20 inches in the ground to bedrock, with magnet at base, in a mound of stone, 3 ft. base, to top of aluminum cap marked:

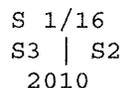


Set a steel fence post alongside aluminum post.

Corner is located on slight NW facing slope, on NW side of a large rock outcropping of sandstone.

- 20.052** Point for the S 1/16 section corner of sections 2 and 3.

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 12 inches in the ground to bedrock, with magnet at base, in a mound of stone, 2 1/2 ft. base, to top of aluminum cap marked:



Set a steel fence post alongside aluminum post.

DEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISIONAL LINES,
TOWNSHIP 42 SOUTH, RANGE 14 WEST, SALT LAKE MERIDIAN, UTAH.

CHAINS

Corner is located on level, open, rocky ground, on mesa top.

- 24.053 Top of ridge, bears N. 22° E. and S. 22° W., descend NW. slope.
- 40.104 The 1/4 section corner of sections 2 and 3, monumented with an iron pipe, 2 1/4 inches diameter, firmly set, projecting 6 inches above a mound of stone, 3 ft. base, 1 1/2 ft. high, with the 3 1/2 inch brass cap marked: WASHINGTON COUNTY SURVEY T42S R14W 1978 LS 4226 UT 1/4 S3|S2. This is accepted as the best available evidence of the original corner position; with a red steel fence post alongside iron pipe.

Corner is located on broken lands, among recent disturbance to the N. and base of cliffs to the S.

From the corner of sections 2, 3, 10, and 11.

S. 89°20.4' W., along the south boundary of section 3.

- 14.129 Point for Angle Point 3, of the metes and bounds survey in sections 3 and 10.

Set aluminum post, 30 inches long, 2 1/2 inches diameter, 10 inches in the ground to bedrock, with magnet at base, in a mound of stone, 3 ft. base, to top of aluminum cap marked:

$$\frac{\text{AP-3} / \text{S3}}{\text{S10}}$$

2010

Set a steel fence post alongside aluminum post.

Corner is located on a moderate SE facing slope, among exposed bedrock.

- 16.175 Top of ridge, bears N. 17° W. and S. 17° E., descend steep broken cliffs.
- 19.939 Point for the E 1/16 section corner of section 10 only.

Set a aluminum post, 30 inches long, 2 1/2 inches diameter, 25 inches in the ground, with a magnet at base, in a mound of stone, 2 ft. base, to top of aluminum cap marked:

$$\text{E } 1/16 \text{ —————}$$

S10
2010

Set a steel fence post alongside aluminum post.

Corner is located on a rocky, broken ground, near base of steep W. facing slope.

DEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISIONAL LINES,
 CHAINS TOWNSHIP 42 SOUTH, RANGE 14 WEST, SALT LAKE MERIDIAN, UTAH.

- 24.002 Point for the E 1/16 section corner of section 3 only, at proportionate distance.

Set a aluminum post, 30 inches long, 2 1/2 inches diameter, 23 inches in the ground, with a magnet at base, in a mound of stone, 1 1/2 ft. base, to top of aluminum cap marked:

S3
 E 1/16 —————

2010

Set a steel fence post alongside aluminum post.

Corner is located on rolling hills with many drainages, on open dry ground.

- 39.878 The 1/4 section corner of section 10 only, monumented with an iron post, firmly set, projecting 6 inches above the ground, with brass cap marked as described in the official record of the 1978 resurvey.

Corner is located on level open ground, a corner of barbed wire fences, bears SW, 1 link distance, extending N. 83° W., and S. 2° W.

N. 89°19.9' W., beginning new measurement.

- 4.932 The 1/4 section corner of section 3 only, monumented with an iron post, firmly set, projecting 6 inches above the ground, with brass cap marked as described in the official record of the 1978 resurvey.

A corner for barbed wire fences, bears E., 1 link distance, extending N. and S. 83° E.

Dependent Resurvey of a Portion the Subdivision of Section 3,
 Township 42 South, Range 14 West, Salt Lake Meridian, Utah.

Reestablishment of the Survey Executed by
 R.A. Zaninovich in 1986.

From the 1/4 section corner of section 3 only.

N. 0°32.5' W., on the N-S centerline of section 3.

- 20.332 The center S 1/16 section corner of section 3, monumented with an aluminum post, 2 1/2 inches diameter, firmly set, 6 inches below ground, with aluminum cap marked as described in the official record of the 1986 survey; with a red steel fence post alongside.

A blacktop access road to horse track, bears N., 13 ft. distance to centerline, 12 ft. wide, extending S. 70° E. and N. 70° W.

DEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISION OF SECTION 3,
 CHAINS TOWNSHIP 42 SOUTH, RANGE 14 WEST, SALT LAKE MERIDIAN, UTAH.

N. $0^{\circ}31.9'$ W., beginning new measurement.

- 20.333 Point for the center 1/4 section corner of section 3, at intersection with the E-W centerline; there is no remaining evidence of the original corner. Point falls in a large paved parking lot for Washington County fairgrounds, not re-monumented.
- 35.609 The center N 1/16 section corner of section 3, monumented with a brass tablet, 3 inches diameter, set 3 inches below grade, in top of a 6 inch diameter concrete form, set inside a 10 inch monumented box, with brass cap marked:

N1/16

 PLS 7654
 6-4-10

This is accepted as a careful and faithful establishment of the corner position.

Corner is located in yard of Washington County shops, in front of a 4 bay storage barn, 12 links E. of east side, extending N. 10° W., and 53 links N. of SE corner.

From the 1/4 section corner of sections 2 and 3.

N. $89^{\circ}48.0'$ W., on the E-W centerline of section 3.

- 24.611 Point for the center E 1/16 section corner of section 3, at proportionate distance; there is no remaining evidence of the original corner. Point falls between concrete sidewalk and rocks in landscaping, not re-monumented.
- 45.492 The point for the center 1/4 section corner of section 3.
- 66.082 The center W 1/16 section corner of section 3, monumented with an aluminum post, 2 1/2 inches diameter, firmly set, projecting 5 inches above the ground, with aluminum cap marked as described in the official record of the 1986 survey.

Corner is located on level open ground, among scattered desert vegetation.

Dependent Resurvey of a Portion the Subdivision of Section 10,
 Township 42 South, Range 14 West, Salt Lake Meridian, Utah.

Reestablishment of the Survey Executed by
 L.V. Judd in 1998.

From the 1/4 section corner of section 10 and 11.

DEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISION OF SECTION 10,
 CHAINS TOWNSHIP 42 SOUTH, RANGE 14 WEST, SALT LAKE MERIDIAN, UTAH.

N. 89°49.0' W., on the E-W centerline of section 10.

- 19.999 Point for the center E 1/16 section corner of section 10, point falls in the Virgin River, not monumented.
- 39.998 The center 1/4 section corner of section 10, monumented with a brass cap, 3 1/4 inches diameter, 2 inches below grade, set on a rebar in bedrock, and marked as described in the official record of the 1998 survey; with a mound of stone, 4 ft. base, 2 ft. high, west of corner.

Corner is located on westerly side of ridge, extending N. 30° E. and S. 30° W., 10 ft. from top, on near level, rocky ground.

Survey of a Portion of the Subdivision of Section 3,
 Township 42 South, Range 14 West, Salt Lake Meridian, Utah.

From the E 1/16 section corner of section 3 only.

N. 0°25.8' W., on the N-S centerline of the SE 1/4 of section 3.

- 20.262 Point for the SE 1/16 section corner of section 3, at intersection with the E-W centerline of the SE 1/4.

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 28 inches in the ground, magnet at base, with aluminum cap marked:

SE 1/16 S3

2010

Set a steel fence post alongside aluminum post.

Corner is located on level, recently disturbed ground.

Fairgrounds Industrial Park is to the E.

- 40.465 The center E 1/16 section corner of section 3.

From the S 1/16 section corner of sections 2 and 3.

S. 89°50.7' W., on the E-W centerline of the SE 1/4 of section 3.

- 2.465 Top of ridge, bears N. 40° E. and S. 40° W., descend steep broken cliffs.
- 24.306 The SE 1/16 section corner of section 3.
- 45.152 The center S 1/16 section corner of section 3.

CHAINS

SURVEY OF A PORTION OF THE SUBDIVISION OF SECTION 10,
TOWNSHIP 42 SOUTH, RANGE 14 WEST, SALT LAKE MERIDIAN, UTAH.

Survey of a Portion of the Subdivision of Section 10,
Township 42 South, Range 14 West, Salt Lake Meridian, Utah.

From the point for the center E 1/16 section corner of section 10.

N. 0°13.4' E., on the N-S centerline of the NE 1/4 of section 10.

- 19.917 Point for the NE 1/16 section corner of section 10, at intersection with the E-W centerline of the NE 1/4.

Set a brass tablet, 3 1/2 inches diameter, with a 3 1/2 inch stem, flush with sandstone, in cement bond, into a drill hole on solid rock marked:

NE 1/16 S10

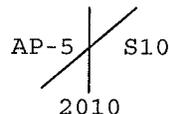
2010

Raise a mound of stone, 3 ft. base, 2 ft. high, with a steel fence post, east of corner.

Corner is located on E. facing slope on exposed sandstone bedrock.

- 24.102 Point for Angle Point 5, of the metes and bounds survey in sections 3 and 10.

Set a brass tablet, 3 1/2 inches diameter, with a 3 1/2 inch stem, flush with sandstone, in cement bond, into a drill hole on solid rock marked:



Raise a mound of stone, 4 ft. base, 2 ft. high, with a steel fence post E. of aluminum post.

Corner is located on a steep E. facing slope of exposed sandstone bedrock.

- 28.450 Top of ridge, bears N. 38° E. and S. 38° W., descend steep broken cliffs.

- 39.835 The E 1/16 section corner of section 10 only.
-

From the N 1/16 section corner of sections 10 and 11.

S. 89°45.7' W., on the E-W centerline of the NE 1/4 of section

SURVEY OF A PORTION OF THE SUBDIVISION OF SECTION 10,
TOWNSHIP 42 SOUTH, RANGE 14 WEST, SALT LAKE MERIDIAN, UTAH.

CHAINS

10.

- 19.968 The NE 1/16 section corner of section 10.
- 22.966 Point for the Angle Point 6, of the metes and bounds survey in sections 3 and 10.

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 10 inches in the ground to bedrock, with a magnet at base, in a mound of stone, 4 ft. base, to top of aluminum cap marked:

AP-6 /
S10
2010

Set a steel fence post alongside aluminum post.

Corner is located on a steep E. facing slope, among exposed bedrock.

- 26.632 Top of ridge, bears N. 38° E. and S. 38° W., descend steep broken cliffs.
- 39.936 The center N 1/16 section corner of section 10, monumented with an iron post, 2 1/2 inches diameter, firmly set, projecting 5 inches above the ground, and marked as described in the official record of the 1998 survey.

Corner is located on a steep W. facing slope in open ground, a N-S fence line, bears E., 2 links distance.

Survey of the Metes and Bounds Survey in Sections 3 and 10,
Township 42 South, Range 14 West, Salt Lake Meridian, Utah.

The metes and bounds survey was extracted from three separate descriptions; a portion of lot 13 of section 3, and a portion of lots 1 and 2 of section 10.

From Angle Point 1, on the section line between sections 2 and 3.

Thence S. 41°43.0' W., along line 1-2.

- 20.942 Point for Angle Point 2.

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 22 inches in the ground to bedrock, with a magnet at base, in a mound of stone, 2 1/2 ft. base, to top of aluminum cap marked:

AP-2 /
S3
2010

CHAINS SURVEY OF THE METES AND BOUNDS SURVEY IN SECTIONS 3 AND 10,
TOWNSHIP 42 SOUTH, RANGE 14 WEST, SALT LAKE MERIDIAN, UTAH.

Set a steel fence post alongside aluminum post.

Corner is located on a moderate SE facing slope, on open rocky ground.

Thence S. 8°00.9' W., along line 2-3.

2.362 Angle Point 3, at the intersection with the section line between section 3 and 10.

Thence S. 8°00.9' W., along line 3-4.

9.578 Point for Angle Point 4.

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, over a chiseled X in sandstone bedrock, in a mound of stone, 3 ft. base, to top of aluminum cap marked:

AP-4
S10
2010

Set a steel fence post in mound of stone alongside aluminum post.

Corner is located on a steep E-SE facing slope, on a large area of exposed bedrock.

Thence S. 35°41.2' W., along line 4-5.

7.775 Angle Point 5, at the intersection with the N-S centerline of the NE 1/4 of section 10.

Thence S. 35°41.2' W., along line 5-6.

5.168 Angle Point 6, at the intersection with the E-W centerline of the NE 1/4 of section 10.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

Name	Capacity
Jacob Murdoch	Survey Aid

CERTIFICATE OF SURVEY

I, *Dale A. Graff, Cadastral Surveyor*, HEREBY CERTIFY upon honor, that in pursuance of Special Instructions bearing the date of the *July 12, 2010*, I have *dependently resurveyed a portion of the subdivisional lines, and dependently resurveyed a portion of sections 3 and 10, and surveyed a portion of the subdivision of sections 3 and 10, and the metes and bounds survey in sections 3 and 10, in Township 42 South, Range 14 West, of the Salt Lake Meridian, in the State of Utah*, 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.

MARCH 03, 2011

Date

Dale A. Graff

Cadastral Surveyor

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT
Salt Lake City, Utah

The foregoing field notes of the *dependent resurvey of a portion of the subdivisional lines, the dependent resurvey of a portion of the subdivision of sections 3 and 10, the survey of a portion of the subdivision of sections 3 and 10, and the metes and bounds survey in sections 3 and 10, in Township 42 South, Range 14 West, Salt Lake Meridian, Utah*, executed by *Dale A. Graff, Cadastral Surveyor*, having been critically examined and found correct, are hereby approved.

April 5, 2011

Date

Daniel W. Webb

Chief Cadastral Surveyor for Utah