

**Coordinate
Positions Within
T2N R3E, T2N R4E,
T1N R3E, T1N R4E,
T1S R3E, T1S R4E,
T2S R3E, T2S R4E
Ada County, Idaho**

**Prepared By:
FOX Land Surveys, Inc.**

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FOX Land Surveys, Inc.

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Tuesday, September 03, 2002

Sheldon Bluestein
Ada County Assessors Office
650 Main Street
Boise ID 83702

Re: Coordinate Positions for a Few Section and Quarter Section Corners within T5N, R1E and T5N, R1W.

Dear Sheldon:

Thank you for using FOX Land Surveys for this project. We have processed and compiled our field data collected on August 7, 8, 13, 14, 22, 28, and on September 3, 2002. Enclosed is a report detailing the projects work.

The report is organized as follows:

- PROJECT OVERVIEW
- PROJECT SUMMARY
- VECTOR OBSERVATION LIST, TIMETABLE AND NETWORK MAP.
- FINAL COORDINATES AND PROCESS SUMMARY HOLDING CONTROL POINT 0015
 - Project Summary
 - Control Site Positions
 - Site Positions – Final
 - Adjustment Summary
 - Adjusted Vectors
 - Network Map
 - Point Coordinates
- FINAL COORDINATES AND PROCESS SUMMARY HOLDING CONTROL POINTS 0015, 0013, 0019, 0017, 0039, 0041, F415, P84RESET
 - Project Summary
 - Control Site Positions
 - Site Positions – Final
 - Adjustment Summary
 - Adjusted Vectors
 - Network Map
 - Point Coordinates
- OBSERVATION INFORMATION
- PROJECT FILES USED
- COORDINATE SYSTEM DEFINITION
- NETWORK RELATIVE ACCURACY

Respectfully submitted,
FOX Land Surveys, Inc.
Timothy J. Fox, President
PLS 7612

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Re: Coordinate Positions for a Few Section Corners within T2N R3E, T2N R4E,
T1N R3E, T1N R4E, T1S R3E, T1S R4E, T2S R3E, T2S R4E

PROJECT OVERVIEW

FOX Land Surveys Inc. was contracted to provide the Ada County Assessors Office with a list of Geodetic Coordinates for a number of Section Corners within Township 2 North Range 3 East, Township 2 North Range 4 East, Township 1 North Range 3 East, Township 1 North Range 4 East, Township 1 South Range 3 East, Township 1 South, Range 4 East, Township 2 South Range 3 East and Township 2 South Range 4 East. Vertical positions were not a concern on this project. The Assessors Office required us to tie our work to the existing GPS Photo Control used for the "Ada County Aerial Mapping Project 2000" and set by OrbiTech.

I met with Jack Clark (Ada County Assessors Office) on July 9th, 2002. We discussed the methods we would use to obtain what we will term preliminary final coordinates on a number of Section Corner positions. We determined the values would be preliminary because Dave would be doing GPS Surveys in that area of Ada County at a later date. His work would be highly constrained and very intensive. Daves' work would provide values to about the one-centimeter range. The Assessors Office was not looking for a final, highly resolved position. Jack stated they wanted values to be in the \pm ten-centimeter range. We agreed to provide positions to within the \pm ten-centimeter (0.42') range. However, I did suspect we would be providing coordinate positions with accuracies somewhere around two to five-centimeters (0.06' to 0.20').

We would hold all Orbitech Control positions fixed in the final adjustment and review the results.

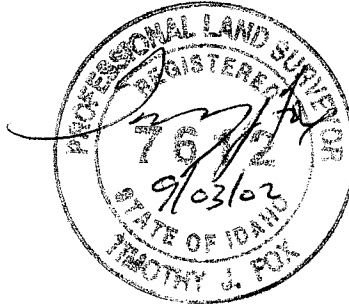
I re-conned the site on three occasions prior to sending the field crew out. I determined the project would be broken into three areas with supplemental ties performed to bring the areas together.

Justus Qualls, Ed Sprague and I performed the GPS Surveys. We did the field work on August 7th, 8th, 13th, 14th, 28th and on September 3rd of 2002. Due to the dry summer conditions, we used ATV's to move about the project safely.

We had two fixed GPS base stations and three GPS rover units. We used the AHTECH Locus GPS units. These are single frequency L1 GPS units and require as little as fifteen minutes of occupation time. We decided to occupy each point for a minimum of one hour. This allowed us a large degree of assurance that the data we collected would be sufficient for this projects requirements.

The work was processed on the evening of September 3rd, 2002. We processed the data with two different scenarios: One Fixed Coordinate point; Nine fixed OrbiTech control points tied to the network.

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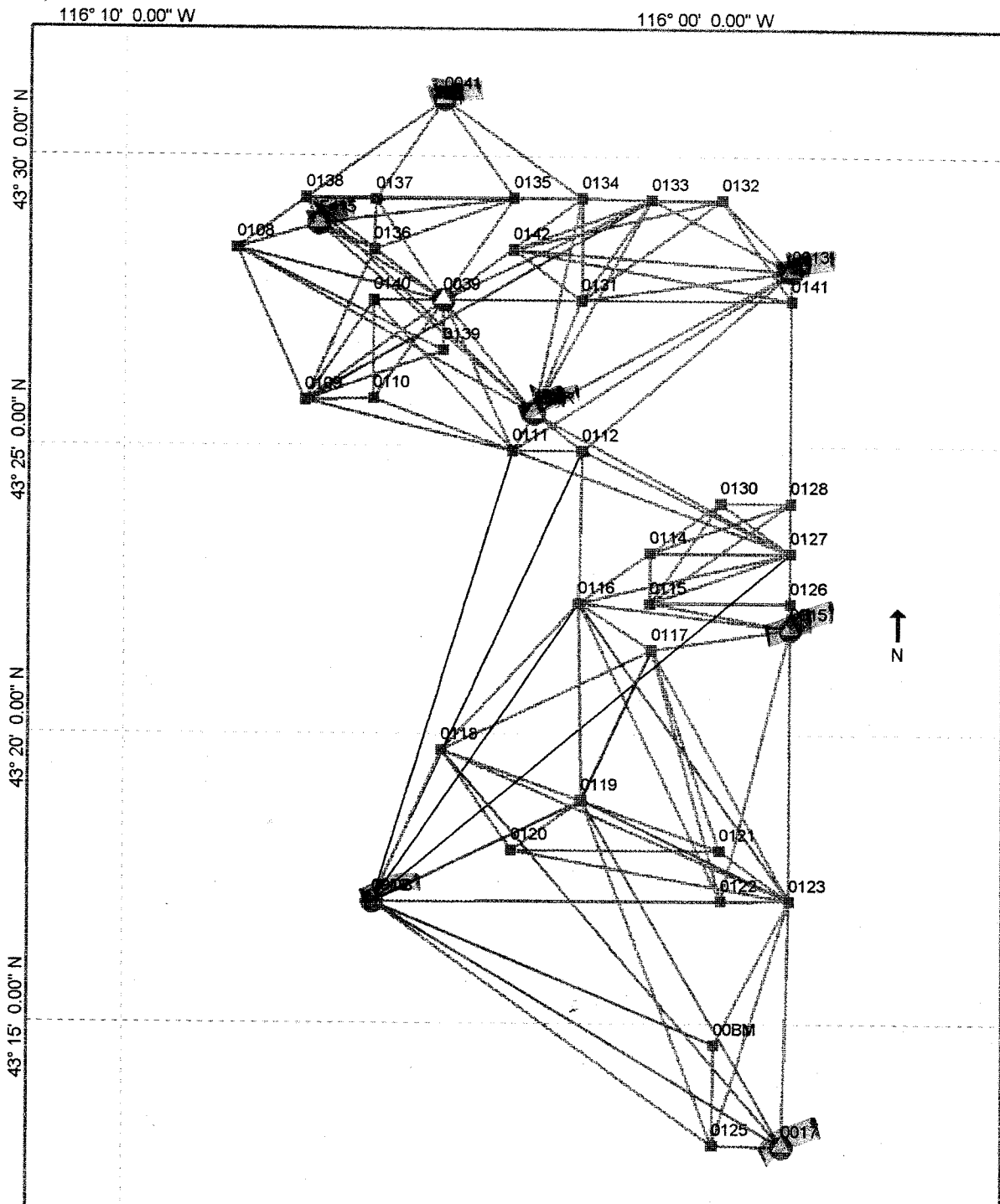
- 0109 Found stone with chiseled "X" on top for the SE S8 T1N R3E
- 0110 Found 5/8 rebar, no cap in mound of rock SE S9 T1N R3E
- 0111 Found BLM Brass Cap at the SE S14 T1N R3E
- 0112 Found GLO Brass Cap at the SE S13 T1N R3E
- 0113 Found GLO Brass Cap at the SE S24 T1N R3E
- 0114 Found GLO Brass Cap at the SE S30 T1N R4E
- 0115 Found GLO Brass Cap at the NE S6 T1S R4E
- 0116 Found GLO Brass Cap at the SE S36 T1N R3E
- 0117 Found Brass Cap at the SE S6 T1S R4E
- 0118 Found 5/8" Rebar, no cap in Stone Mound at the SE S15 T1S R3E
- 0119 Found BLM Brass Cap at the SE S24 T1S R31E
- 0120 Found Brass Cap at the SE S26 T1S R3E
- 0121 Found Brass Cap at the SE S29 T1S R3E
- 0122 Found Brass Cap at the SE S32 T1S R4E
- 0123 Found GLO Brass Cap at the SE S33 T1S R4E
- 0125 Found 2" Iron Pipe, open, in mound of rocks at the SE S29 T2S R4E
- 0126 Found GLO Brass Cap at the NE S4 T1S R4E
- 0127 Found GLO Brass Cap at the SE S28 T1N R4E
- 0128 Found GLO Brass Cap at the SE S21 T1N R4E
- 0130 Found GLO Brass Cap at the SE S30 T3N R4E
- 0131 Found GLO Brass Cap at the SE S36 T2N R3E
- 0132 Found 5/8" Rebar "Brownell LS 8960" at the SE S20 T2N R4E
- 0133 Found Stone with scribed "X" on top at the SE S19 T2N R4E
- 0134 Found Ada County Eng. Aluminum Cap at the S24/25 T2N R3E & S29/30 T2N R4E
- 0135 Found stone with hash marks in small rock mound at the SE S23 T2N R3E
- 0136 Found Ada County Eng. Aluminum Cap at the SE S28 T2N R3E
- 0137 Found Stone with hash marks in mound of rocks at the SE S21 T2N R3E
- 0138 Found 5/8" rebar, no cap in mound of Stones at the SE S20 T2N R3E
- 0139 Found BLM Aluminum Cap in rock mound at the SE S3 T1N R3E
- 0140 Found Ada County Eng. Aluminum Cap at the SE S33 T2N R3E
- 0141 Found GLO Brass Cap in rock mound at S33/34 T2N R4E & S3/4 T1N R4E
- 0142 Found J-U-B Brass Cap at the SE S26 T2N R3E

Please Note: The Section Corner positions indicated in the above list were based upon observed evidence: monuments in the area, parole evidence of land owners and other obvious improvements. *Surveys to establish the relationships of these found corners to adjacent Quarter and Section Corners should be completed to confirm, in fact, Certify that the above found monuments are representative of the true corner.* We do suspect the above noted monuments would turn out to be the true position for the Section Corners indicated.

Respectfully submitted,

FOX Land Surveys, Inc.
 Timothy J. Fox, President
 PLS 7612





<p style="text-align: center;">MAP (Non-Conformal Projection)</p> <p>Project Name: 234-P84R-0015-0039-0013-F415-0041-0019-0017-0015 Client: ADA COUNTY ASSESSORS OFFICE Date: Tuesday September 03, 2002 Coordinate System: North American 1983-CONUS</p>	<p style="text-align: center;">LEGEND</p> <ul style="list-style-type: none"> △ Horizontal Control ○ Vertical Control ⊗ Horizontal & Vertical Control □ New Site <p>Map Grid Scale: 5000 f </p>
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Point Coordinates

Project: 234-Fixed-0015.spr
 Coordinate System: North American 1983-CONUS
 Zone:

Site ID	Site Descriptor	Status	Latitude	95% Err.	Longitude	95% Err.	Ortho. Ht.	95% Err.	Fixed
0013	PKN*ORB	Adjusted	43° 28' 1.75344" N	0.021	115° 58' 30.39679" W	0.022	3686.093	0.033	
0015	ALC*ORB	Adjusted	43° 21' 50.11898" N	0.000	115° 58' 29.48839" W	0.000	3326.450	0.000	Hor/Ver
0017	ALC*ORB	Adjusted	43° 12' 53.02600" N	0.023	115° 58' 36.67457" W	0.025	3074.531	0.040	
0019	ALC*ORB	Adjusted	43° 17' 6.44135" N	0.022	116° 05' 39.69179" W	0.025	3207.588	0.038	
0039	ALC*ORB	Adjusted	43° 27' 30.98139" N	0.021	116° 04' 29.83640" W	0.021	3401.512	0.031	
0041	CPT*CPT-ORB	Adjusted	43° 30' 59.95283" N	0.023	116° 04' 29.16395" W	0.024	3154.584	0.037	
00BM	BCP*BOR.BM	Adjusted	43° 14' 37.56237" N	0.029	115° 59' 47.55966" W	0.026	3094.689	0.045	
0108	PIP*02031SE30	Adjusted	43° 28' 23.87818" N	0.022	116° 08' 3.60967" W	0.022	3265.440	0.034	
0109	STN*01031SE08	Adjusted	43° 25' 47.45570" N	0.021	116° 06' 52.81834" W	0.022	3244.887	0.033	
0110	58R*01031SE09	Adjusted	43° 25' 47.55668" N	0.022	116° 05' 41.54822" W	0.022	3306.528	0.034	
0111	BCP*01031SE14	Adjusted	43° 24' 53.90723" N	0.019	116° 03' 17.80277" W	0.019	3365.702	0.028	
0112	BCP*01031SE13	Adjusted	43° 24' 54.07027" N	0.018	116° 02' 5.58777" W	0.018	3427.922	0.028	
0114	BCP*01041SE30	Adjusted	43° 23' 9.02710" N	0.011	116° 00' 53.70959" W	0.011	3331.142	0.018	
0115	BCP*01041SE31	Adjusted	43° 22' 16.84099" N	0.011	116° 00' 53.59781" W	0.010	3308.189	0.016	
0116	BCP*01031SE36	Adjusted	43° 22' 16.99044" N	0.010	116° 02' 7.57576" W	0.011	3250.589	0.018	
0117	BCP*01042SE06	Adjusted	43° 21' 27.73538" N	0.011	116° 00' 53.41431" W	0.012	3238.008	0.019	
0118	58R*01032SE15	Adjusted	43° 19' 43.16148" N	0.016	116° 04' 28.78409" W	0.018	3149.796	0.028	
0119	BCP*01032SE24	Adjusted	43° 18' 51.69214" N	0.017	116° 02' 5.59956" W	0.018	3147.520	0.029	
0120	BCP*01032SE26	Adjusted	43° 17' 59.33936" N	0.020	116° 03' 16.94894" W	0.020	3135.149	0.032	
0121	BCP*01042SE29	Adjusted	43° 18' 0.18824" N	0.017	115° 59' 41.30485" W	0.018	3163.516	0.029	
0122	BCP*01042SE32	Adjusted	43° 17' 8.03546" N	0.016	115° 59' 41.23968" W	0.018	3137.525	0.028	
0123	BCP*01042SE33	Adjusted	43° 17' 8.33938" N	0.015	115° 58' 29.92750" W	0.017	3151.892	0.026	
0125	PMN*02042SE29	Adjusted	43° 12' 53.63984" N	0.023	115° 59' 48.16739" W	0.024	3079.000	0.038	
0126	BCP*01041SE33	Adjusted	43° 22' 16.81822" N	0.009	115° 58' 29.65804" W	0.006	3362.549	0.012	
0127	BCP*01041SE28	Adjusted	43° 23' 9.03628" N	0.010	115° 58' 30.16206" W	0.009	3419.657	0.014	
0128	BCP*01041SE21	Adjusted	43° 24' 1.04432" N	0.012	115° 58' 30.26200" W	0.012	3487.470	0.020	
0130	BCP*01041SE20	Adjusted	43° 24' 0.95557" N	0.012	115° 59' 42.20654" W	0.012	3425.788	0.020	
0131	BCP*02031SE36	Adjusted	43° 27' 31.45523" N	0.021	116° 02' 5.85631" W	0.021	3456.796	0.032	
0132	58R*02041SE20	Adjusted	43° 29' 15.30360" N	0.022	115° 59' 42.34429" W	0.023	3754.561	0.034	
0133	STN*02041SE19	Adjusted	43° 29' 15.45608" N	0.021	116° 00' 54.05444" W	0.022	3810.042	0.033	
0134	ALC*02031SE24	Adjusted	43° 29' 15.82965" N	0.021	116° 02' 5.82555" W	0.022	3877.421	0.033	
0135	STN*02031SE23	Adjusted	43° 29' 15.80736" N	0.022	116° 03' 17.41640" W	0.022	3683.049	0.033	
0136	BCP*02031SE28	Adjusted	43° 28' 23.61519" N	0.022	116° 05' 41.87418" W	0.022	3409.225	0.033	
0137	STN*02031SE21	Adjusted	43° 29' 15.75165" N	0.022	116° 05' 40.44127" W	0.022	3422.887	0.033	

Point Coordinates

Project: 234-Fixed-0015.spr
 Coordinate System: North American 1983-CONUS
 Zone:

Site ID	Site Descriptor	Status	Latitude	95% Err.	Longitude	95% Err.	Ortho. Ht.	95% Err.	Fixed
0138	58R*02031SE20	Adjusted	43° 29' 15.85597" N	0.021	116° 06' 52.03545" W	0.022	3413.061	0.033	
0139	ALC*0103SE03	Adjusted	43° 26' 38.51962" N	0.022	116° 04' 29.82816" W	0.022	3361.006	0.035	
0140	BCP*02031SE33	Adjusted	43° 27' 31.07370" N	0.022	116° 05' 41.83558" W	0.022	3296.625	0.034	
0141	BCP*02031SE33	Adjusted	43° 27' 31.04862" N	0.022	115° 58' 30.38254" W	0.024	3779.290	0.036	
0142	BCP*02031SE26	Adjusted	43° 28' 23.40936" N	0.022	116° 03' 17.96436" W	0.023	3555.898	0.036	
19DB	58R*01032SE33	Adjusted	43° 17' 6.59721" N	0.025	116° 05' 39.70126" W	0.029	3207.582	0.048	
F415	CPT*RODorb	Adjusted	43° 28' 49.05236" N	0.021	116° 06' 38.99199" W	0.022	3352.871	0.033	
P84R	CPT*BCP3ngs	Adjusted	43° 25' 33.43299" N	0.019	116° 02' 55.65169" W	0.019	3401.369	0.029	