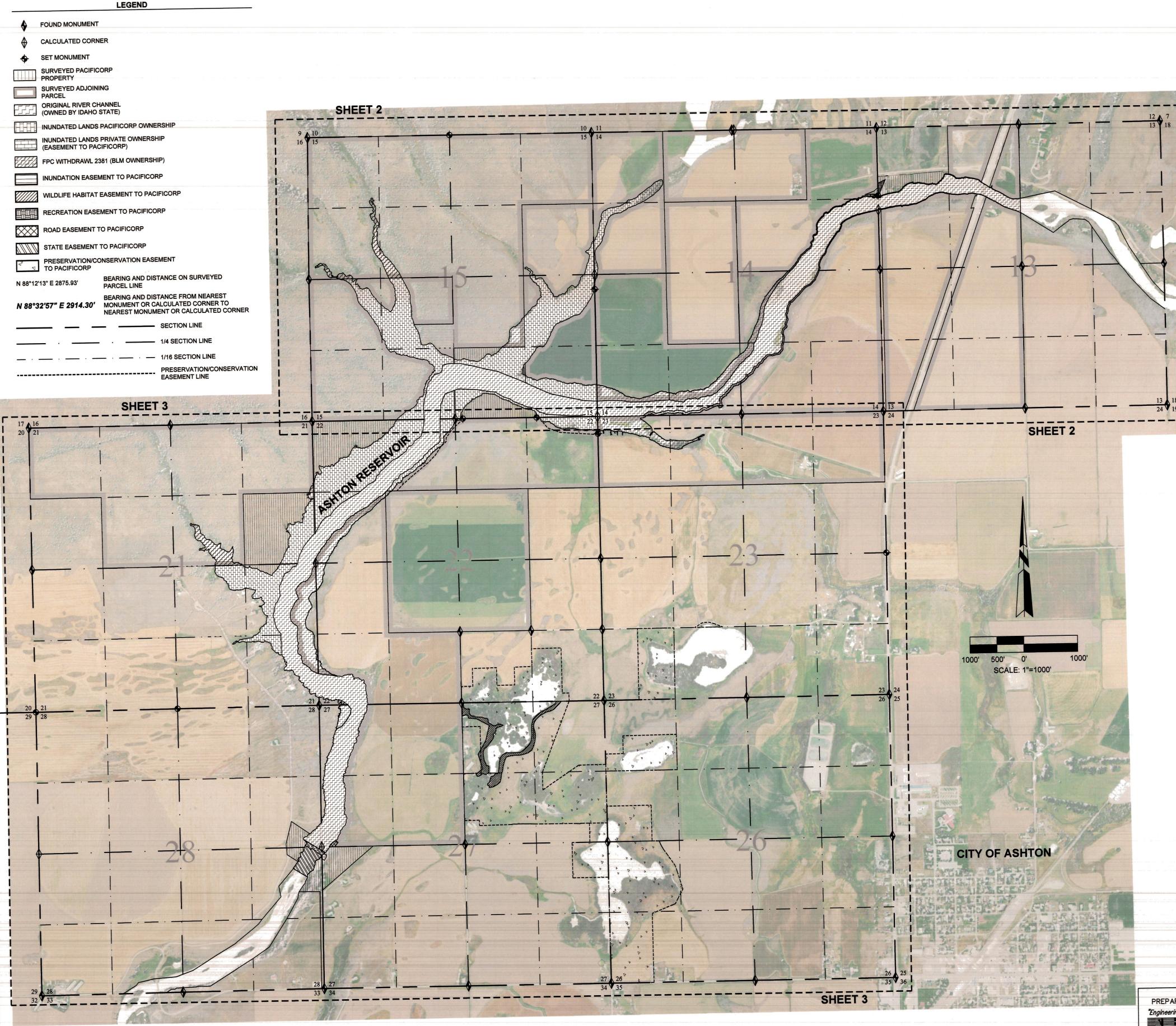
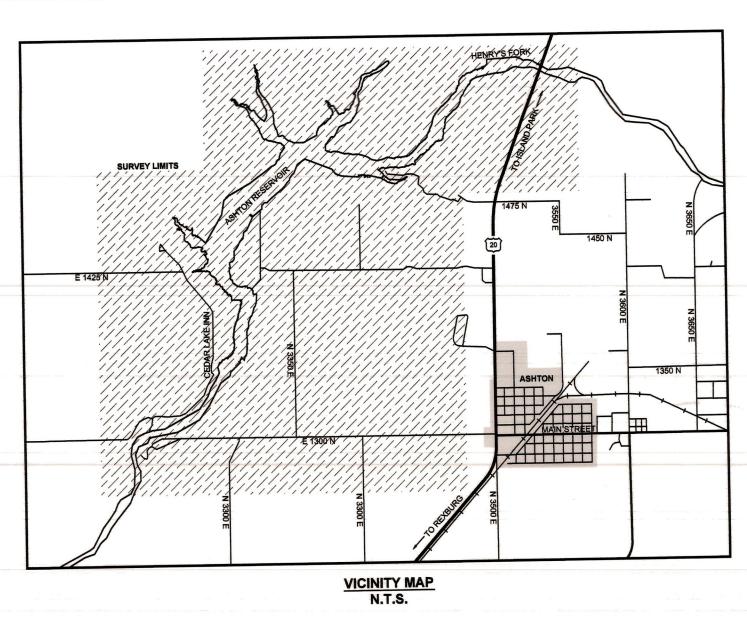
## **ASHTON RESERVOIR RECORD OF SURVEY**

LOCATED IN SECTIONS 13, 14, 15, 21, 22, 28, & 27 TOWNSHIP 9 NORTH, RANGE 42 EAST **BOISE MERIDIAN & BASELINE** FREMONT COUNTY, IDAHO





This survey was performed at the request of PacifiCorp. PacifiCorp owns and maintains the Ashton Reservoir Hydroelectric facility at the southeastern edge of the Ashton Reservoir. This survey was done to locate all PacifiCorp interest lands included in the Ashton Reservoir project. PacifiCorp interest lands include PacifiCorp (aka Utah Power and Light) Fee Ownership, as well as inundation easements for the reservoir itself, conservation easements adjoining and close to the reservoir, road easements for PacifiCorp Roads, and recreation easements over Fremont County owned parcels.

The Survey was performed using Topcon Hiper V GPS equipment and a 2500 data collector. An initial base point was set for the aerial reservoir flight, and an OPUS correction was performed on it and three subsequent control points. All Bearings and Distances have been derived from these OPUS corrections and are listed on the survey in NAD 83 Idaho State Plane East Zone Grid Distances, U.S. Survey Feet. The Basis of bearing for this survey can be considered North 89°51'24" East 2683.49 feet between the aluminum caps along the South line of the West half of Section 27. Although it is assumed that any retracements made would utilize the nearest found monuments as a basis of bearing for those surveys.

The initial fieldwork was performed during July of 2015, with follow-up visits to verify locations and additional parcel resolutions occurring periodically through June of 2016. A substantial amount of original stone monuments set by the BLM were recovered and have been notated as such on this survey. All corners deemed lost were re-established using BLM procedures (missing section corners first with double proportion or three- point control, followed by single proportion on 1/4 corners).

An Aerial flight was performed by Aero-Graphics, Inc. to determine the water's edge of the Ashton Reservoir. For the flight, PacifiCorp raised the reservoir to full-pool elevation and Aerial Infrared imagery was used to determine the location of the water boundary. Water elevations during full pool and normal operating levels of the reservoir were measured to determine and confirm the points at which the Ashton Reservoir extends up the Henry's Fork of the Snake River.

Monuments under the reservoir currently (but set prior to reservoir inundation) were searched for using scuba-diving equipment and an underwater camera. With the exception of the quarter corner common to Sections 15 and 22, these inundated corners were not recovered. The monuments fell in areas where the reservoir was either very deep, filled with several feet of silt, and/or in areas since disturbed by local landowners. The quarter corner common to Sections 15 and 22 was located in a fairly shallow area of the reservoir (less than 6' of water) with minimal silt deposits. A corner matching the original BLM note descriptions was located upright in a mound of stones with a 1/4 mark on the face of the stone.

A mound of stones referencing the corner common to Sections 20, 21, 28, and 29 was located during a previous survey by Thomas W. Harvey, PLS (1982 and 1991) and confirmed with verbal evidence from a local farmer (side note: it is believed that this farmer has since passed away). A mound of stones was then recovered and utilized in a 2008 breakdown of Section 29 by Ty G. Briggs, PLS. Recent Construction of an irrigation pivot had greatly disturbed the area. Crews talked to the local farmer whose intent it was to set the pivot on the corner, however the mound which was used is in question and no perpetuation of any mounds were made; the location of the pivot did not fit any previous measurements to the mound (Note: several mounds existed around the pivot as that area has been used as a depository for stones found while cultivating the adjoining fields). Several monuments recovered and set by Briggs in 2008 were recovered to re-establish the location of the mound, however some measurements of the found monuments for Section 29 did not fit measurements to the surrounding section corners in this township. To aid in the re-establishment, the survey accompanying the 1982 visit by Tom Harvey was re-traced in its entirety, and the location of this corner on that survey did not match the Briggs location, the pivot, or any mound of stones. To complicate matters further, an original stone, not recovered by Briggs, was recovered at the Northwest Corner of Section 29. When utilizing this original stone, no previous measurements to the mound of stones seemed to fit with any adjoining sections. This led to a determination that the corner common to Sections 20, 21, 28, and 29 was obliterated, and a subsequent double proportion re-establishment of this corner to the nearest found original stones to the North, East, and West, and a well perpetuated aluminum cap to the South was made. An Aluminum Cap was set at the re-established position. This surveyor is aware that by re-establishing the corner in this location, it's affects the proportioned location of the North Quarter of Section 29 set by Briggs in 2008. However, it appears that Briggs did not survey Sections 28 or 21, and if the fence post recovered for the Briggs location of the Northwest Corner of 29 (no monument set in or next to the post was found, but the fence post was very old and fit the layout of the CP&F) was utilized along with the Briggs bar and cap found at the North Quarter Corner of Section 29 to re-establish the corner common to Sections 20, 21, 28, and 29, the measurements to the found monuments North, East, and South would have not conformed at all within the accuracies seen from the initial GLO surveyor in the rest of this township. The North Quarter Corner of Section 29 was not re-set by this surveyor as PacifiCorp has no interest in that section, this surveyor did not want to "pin-cushion" the corner, and did not want to disturb any bona-fide rights created from reliance on the 2008 survey by Briggs.

The corner common to Sections 14, 15, 22, and 23 was not set during the original GLO survey. A witness corner on the line between sections was set on a rocky bluff now inundated with water. A search was made at the calculated location of this corner, but after unsuccessfully looking at over two dozen submerged stones and having the adjoining landowner identify that as an area where they have been dumping field rocks for decades, the monument was deemed lost. Due to the river crossing, and the methodology of the original surveyor when setting the meander corners, it was determined that a three-point control establishment would be more accurate than utilizing a double proportionate measurement. The double proportion would have included a monument approximately one-mile North that was not set on the same course as this monument due to the river crossing; the three-point control method utilized three monuments all within one-half mile of the re-established corner, and all without a river crossing to the re-established corner. Although the corner was not originally set, it was determined that re-establishing a theoretical location for this corner would allow all subsequent quarter and witness corners to be re-established at the most correct location.

Quarter Corners: All Quarter Corners not recovered were set at midpoint on a line between the nearest section corners.

Witness Corners: All Witness Corners were set on a line between the nearest section corners on a convenient location nearest the bank of the Ashton Reservoir.

For additional monument information (including reference coordinates and more detailed monument descriptions), please see the Corner Perpetuation and Filing Records that accompany this survey.

> SURVEYOR'S CERTIFICATION: I, James. J. Couts, hereby certify that I am a Licensed Land Surveyor in the State of Idaho and that I hold Certificate No. 14107; that this survey complies with Chapter 16, Title 55, of the Idaho Code; that all worked performed has been done by myself or under my direct supervision; and that corner records have been filed for all monuments set or found during this survey;





EN	GINEERING RECORD	
RAWN	KCH	4/01/16
ESIGNED	JRT	4/01/16
CHECKED	SRB	4/01/16
APPROVED	JJC	7/08/16
ILE NO : RM	P-166 ASHTON I	RESERVOIR
REVISION:		

PROPERTY SURVEY PREPARED FOR: PACIFIC POWER A DIVISION OF PACIFICORP

LOCATED IN SECTIONS 13, 14, 15, 21, 22, 28, & 27, TOWNSHIP 9 NORTH, RANGE 42 EAST, BOISE MERIDIAN & BASELINE, FREMONT COUNTY, IDAHO

DATE OF SURVEY: JULY 2015-JULY 2016

SCALE: 1"=1000"

