



LAMBERT COORDINATES

DESCRIPTION	NORTH	EAST
Control Station EC-14	397883.350	1406073.110
Control Station EC-13	398606.230	1406314.630
Sec cor 4, 5, 32, 33	398097.512	1405138.243
Sec cor 28, 29, 32, 33	403354.452	1405245.552
1/4 cor Sec 32/33	400759.131	1405201.725
1/4 Cor Sec 32/5	398039.530	1402519.458
E 1/16 Sec 32/5	398068.378	1403828.399
POB of descrip Tract 305 2	398351.163	1405271.813

PROJECT BOUNDARY

32/05-01-R	S 88 43 32.9 W	28.461	398090.786	1404835.842
32/05-02-R	N 40 05 00.0 E	378.641	398090.153	1404807.388
32-01-R	N 49 55 00.0 W	372.960	398379.855	1405051.196
Delta:	12 06 00.0		Radius:	372.960
Arc:	78.763		Tangent:	39.529
Long Chord:	N 34 02 00.0 E	78.617		
32-02-R	N 27 59 00.0 E	114.548	398445.006	1405095.196
32/33-01-R			398546.161	1405148.943

** RECEIVED **
 Date 9-21-88 By *[Signature]*
 This survey consists of:
 - 2 sheet(s) Map
 - 0 page(s) Narrative
 JACKSON COUNTY SURVEYOR

U.S. ARMY ENGINEER DISTRICT, PORTLAND

ROGUE RIVER BASIN
 ELK CREEK LAKE
 PROJECT BOUNDARY MONUMENTATION
 SECTION 32, TOWNSHIP 32 SOUTH, RANGE 1 EAST, W.M.
 JACKSON COUNTY, OREGON

SUPERVISED: <i>RRR</i>	DRAWN: H-P CAM	Ref: Real Estate Segment Map 3 NPPEN-SY-86-50
DATE: AUGUST, 1988	SHEET: 1 of 2	PREPARED BY: HOFFBUHR & ASSOCIATES, INC. MEDFORD, OREGON

**SURVEY NARRATIVE TO COMPLY WITH PARAGRAPH 209.250
OREGON REVISED STATUTES**

LOCATION: Section 32, Township 32 South, Range 1 East of the Willamette Meridian, Jackson County, Oregon.

PURPOSE: To monument the boundary corners and post line markers along that portion of the Elk Creek Project Boundary being in Section 32, as shown on Segment 3 of the Corps of Engineers Elk Creek Lake Real Estate drawings. The survey was performed during January 1988 through August 1988.

PROCEDURE: Establishing Lambert State Plane Coordinate control:

Second order control monument Station EC-14, established by the Corps of Engineers in 1964 and located in the northwest quarter of the northwest quarter-section of Section 4, Township 33 South, Range 1 East, was used as a basis of Lambert State Plane Coordinates (South Zone). The 1974 adjusted coordinates were used. The line from Station EC-14 to Station EC-13, also established in 1964 and located in the southwest quarter of the southwest quarter-section of adjoining Section 33, was used as a basis of bearing. The USCE record bearing from EC-14 to EC-13 = North 18°28'29.6" East.

All bearings and distances shown are on State Plane Coordinate grid. Coordinates and distances are shown to .xxx feet and bearings to .x seconds for mathematical consistency only and are not intended to imply accuracy of survey.

An average latitude and elevation were used to compute a single grid factor for each individual survey traverse. The grid factor at Station EC-14 is:

Scale factor (latitude N 42°44'12") = 0.9999229
Elevation factor (1700') = 0.9999187
Combined (grid) factor = 0.9998416

All horizontal control established by this survey meets requirements of 3rd Order, Class 1, National Oceanic and Atmospheric Administration specifications for geodetic control.

Establishing section subdivision control:

The project boundary within Section 32 is dependent upon metes and bounds description. A series of traverses were run, using an electronic "total station" 1 second theodolite and distance meter, to locate the controlling section monuments and establish coordinates.

The northeast section corner and the south and east quarter-section corners of Section 32 have been perpetuated from original evidence. The monument and all references marking the southeast corner of the section were destroyed during road construction in approximately 1984. Four trees with recent blazes and scribing were found just outside of the construction area. The surveyor who did the staking for the road construction, (ALS 539), was contacted. He stated that no additional references were taken prior to the destruction of the corner location, and that he marked the previously mentioned trees after construction. Also, the section corner location shown on his as-built maps, on file at the County Surveyor's Office as Survey No. 10972, was determined by retracement of a portion of Survey No. 9353 located in the northeast quarter-section of adjoining Section 5. He had measured, on the south boundary of Section 32, from the 1/4 corner to the east 1/16 corner, and projected the bearing easterly the record of survey distance to establish the section corner position. He did not set a monument or take measurements to the trees that he had marked.

I was provided by the Corps of Engineers a copy of the field notes of a survey traverse run in 1965 (Field Book No. 11091), at which time a tie was made to the section corner. The notes indicated the monument to be a 1" pipe with 1.75" reducer, and ties were also made to three bearing trees. The traverse began at Control Station EC-13, with a back-sight taken from Station EC-12. These two monuments were recovered at this time, and the traverse retraced. The remains of traverse hub 33-A-3 were found, and the remainder of the old traverse computed forward the record distance of 384.13 ft. This I felt to be the best available evidence of the corner position, and a monument was set and reference measurements taken to the existing marked trees. A retracement of the as-built road map measurements produced a location northerly 0.7 ft. from this monumented position.

The westerly boundary of Tracts 305 2 was determined by metes and bounds as described in Instrument No. 74-08008 of the Official Records of Jackson County, with the boundary being 200 feet westerly of and parallel with the described line.

Using the section control determined as described above, Section 32 was subdivided and monumented as shown on the plat on sheet 1. The intermediate project boundary monuments were positioned for intervisibility.

SECTION CONTROL - (Bearings oriented to true north)

FOUND:

Section corner common to Sections 28, 29, 32, and 33:
Found, the 3" diameter BLM brass cap set in 1968, exposed 4", and the following original bearing trees:
10" fir with healed blazes bears N 77° E 23.0 ft.
23" fir with healed blazes bears S 15° W 30.4 ft.
38" fir with healed blazes bears N 15° W 8.5 ft.
22" fir with healed blazes bears S 66° E 6.0 ft.
A 38" fir with healed blazes, marked by the BLM, bears N 15° W 8.5 ft.

Quarter-section corner common to Sections 32 and 33:
Found, the 3/4" pipe with 1.25" metal-filled reducer, set by the County Surveyor from original evidence in 1949, and the following trees marked at that time:
The stump of a 12" fir, now lying face down with scribing visible, bears N 64° E 22.0 ft.
22" fir with healed blazes bears N 62° W 34.3 ft.

Quarter-section corner common to Section 32, Township 32 South, and Section 5, Township 33 South, Range 1 East:
Found, set by the County Surveyor, exposed 8", from which bear the following bearing trees:
18" fir with healed blazes bears S10°30'W 22.9 ft.
25" diameter sawed fir stump with healed blaze bears N70°22'E 24.1 ft.
10" oak with healed blazes bears S43°05'W 7.9 ft.

East sixteenth-section corner between Section 32, Township 32 South, and Section 5, Township 33 South, Range 1 East:
Found, a 2" diameter aluminum cap on a 5/8" iron rebar, exposed 6", stamped "AA Surveying Inc", and the following bearing trees:
10" fir with scribing visible bears N13°07'W 12.3 ft.
11" fir with healed blazes bears S9°09'W 12.0 ft.
The 1" pipe with metal-filled reducer evidently set by Elk Lumber Co. in 1949 bears Northwestly 0.4 ft. This monument is leaning and is unstable, possibly having been disturbed.

SET:

Section corner common to Sections 32 and 33, Township 32 South, Range 1 West, and Sections 4 and 5, Township 33 South, Range 1 West: Set a 30" long Berntsen aluminum monument, exposed 4", with the aluminum cap stamped as shown here, from which
bear the following bearing trees:
21" fir with healed blazes bears 5 + 4
N37°51'W 106.83 ft. T325 R1E
12" fir with healed blazes bears T335 R1E
S24°17'W 108.34 ft. 1988
12" fir with scribing visible bears LS 1656
S29°13'E 72.55 ft.
14" fir with healed blazes bears N86°08'E 60.84 ft.
The corner lies on the east cutbank of Elk Creek Road, just above the ditch bottom.

REGISTERED
PROFESSIONAL
LAND SURVEYOR

Roger R. Roberts

OREGON
JULY 14, 1978
ROGER R. ROBERTS
1556

U.S. ARMY ENGINEER DISTRICT, PORTLAND

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ELK CREEK LAKE
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DATE: August, 1988	SHEET: 2 of 2	PREPARED BY: HOFFBUHR & ASSOCIATES, INC. MEDFORD, OREGON