



LAMBERT COORDINATES

DESCRIPTION	NORTH	EAST
Control Station EC-12	399193.700	1406833.680
Control Station EC-13	398606.230	1406314.630
Control Station EC-14	397883.350	1406073.110
Control Station EC-17	394777.650	1405034.460
Control Station EC-18	393784.310	1404425.980
Sec cor 4, 5, 8, 9	392802.084	1404747.710
Sec cor 4, 5, 32, 33	398937.512	1405138.243
Sec cor 33, 34, 3, 4	397929.866	1410245.235
1/4 cor Sec 33/4	398080.629	1407786.920
1/4 cor Sec 4/9	392750.794	1407335.675
1/4 cor Sec 5/4	395435.707	1404953.772
1/4 cor Sec 4/3	395359.063	1410125.435
S 1/16 Sec 5/4	395397.087	1407559.721
W 1/16 Sec 4/9	394119.743	1404850.281
E 1/16 Sec 33/4	392776.430	1406041.575
CS 1/16 Sec 4	398005.247	1409016.078
CW 1/16 Sec 4	394073.451	1407448.619
SW 1/16 Sec 4	395416.397	1406256.747
CN 1/16 Sec 4	394096.602	1406149.176
E-W 1/64 Sec 4/9	396741.097	1407673.374
C-E-SW 1/64 Sec 4	392763.612	1406688.625
	394085.026	1406798.898

PROJECT BOUNDARY

DESCRIPTION	NORTH	EAST
E-W 1/64 Sec 4/9	573.499	392763.612
04-01-L	198.419	393395.125
04-02-L	146.039	393532.857
04-03-L	263.715	393678.389
04-05-L	144.335	393941.191
04-06-L (C-E-SW 1/64)	175.181	394085.026
04-07-L	474.643	394081.905
CS 1/16	440.929	394073.451
04-08-L	600.203	394512.834
04-09-L	147.193	395110.934
04-10-L	73.149	395257.611
04-11-L	66.817	395330.504
C 1/4 Cor	600.684	395397.087
04-12-L	46.605	395995.634
04-13-L	538.247	396042.073
04-14-L	240.697	396578.406
04-15-L	567.704	396818.246
04-16-L	95.425	397383.922
04-17-L	166.361	397479.005
04-18-L	83.717	397644.771
04-19-L	353.704	397728.190
1/4 cor Sec 33/4	398080.629	1407786.920

- LEGEND
- Found USCE brass disc, second order control monument
 - Found brass cap set by Bureau of Land Management
 - Found 2.5" dia. lead-filled reducer on 1.5" dia. pipe
 - Found County Surveyor lead-filled reducer on 1" pipe
 - Found 3" brass cap set by Oregon State Board of Forestry
 - No monument set. See sheet 2 for additional information
 - Set Bernsten aluminum monument stamped with point number, date, and "L.S. 1855". Alongside, set metal post with boundary sign.
 - Set brass disc on rock surface
 - General Land Office record measurements *
 - Bureau of Land Management record measurements *
 - Filed Survey No. 2843 (RLS No. 359) record measurements *
- * not reduced to grid

I, Roger R. Roberts, registered land surveyor in the State of Oregon, hereby certify that this plat and notes hereon, or attached, are a correct representation of a survey I performed during October, 1987, through July, 1988 at the request of the U.S. Army Corps of Engineers, in accordance with the survey recording act of the State of Oregon, and articles of the Department of the Army, Portland District, Corps of Engineers, Contract No. DACW57-87-C-0054.

Roger R. Roberts
Roger R. Roberts

** RECEIVED **
Date 9-21-88
This survey consists of 2 sheets of Map
0 General Remarks
JACKSON COUNTY SURVEY #

U.S. ARMY ENGINEER DISTRICT, PORTLAND

ROGUE RIVER BASIN
ELK CREEK LAKE
PROJECT BOUNDARY MONUMENTATION
SECTION 4, TOWNSHIP 33 SOUTH, RANGE 1 EAST, W.M.
JACKSON COUNTY, OREGON

REGISTERED PROFESSIONAL LAND SURVEYOR
ROGER R. ROBERTS
1988

SUPERVISED: RRR
DRAWN: H-P CAM
Ref: Real Estate Segment Map 3
NPPEN-SY-85-50

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 4, Township 33 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 4 as shown on Segment 3 of the Corps of
Engineers Elk Creek Lake Real Estate drawings. The survey
was performed during October 1987 through July 1988.

PROCEDURE: Establishing Lambert State Plane Coordinate control:

Second order control monument Station EC-17, estab-
lished by the Corps of Engineers in 1964, was used as a
basis of Lambert State Plane Coordinates (South Zone). The
1974 adjusted coordinates were used. The line from Station
EC-17 to Station EC-18, also established in 1964 and located
in the southeast quarter of adjoining Section 5, was used as
a basis of bearing. The USCE record bearing from EC-17 to
EC-18 = South 31°29'23.8" West.

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-17 is:

Scale factor (latitude N 42°43'42") = 0.9999240
Elevation factor (1700') = 0.9999187
Combined (grid) factor = 0.9998427

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 4 is dependent
upon the subdivisional lines of the section. 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 and southwest section corners and the
north, south, east and west quarter-section corners of
Section 4 have been perpetuated from original evidence. The
monument and all references marking the northwest 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 Section 5. He had measured, on the north
boundary of Section 5, 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 1966 (Field Book No.
11091), at which time a tie was made to the northwest sec-
tion 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 backsight taken from Station EC-12. These two monu-
ments 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.

As shown on the map on sheet 1, the monument set by the
BLM at the center quarter-section corner of Section 4 was
not used for this survey. This monument and the one found
at the east sixteenth-section corner on the north boundary
of Section 4 were considered to be outside of the allowable
"limits of closure" as outlined in the 1947 and 1973
editions of the Manual of Surveying Instructions, using a
ratio of 1/1200 for latitude and departure independently.
No monument was set at the computed position of the east
sixteenth-section corner on the north boundary of the
section.

Using the section control determined as described
above, Section 4 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:

Corner common to Sections 4, 5, 8, and 9: Found, the 2.5"
diameter BLM brass cap set in 1965, and the following
original bearing tree:
32" dia. fir stump with scribing visible bears S 35°37'
E 16.8 ft.
Trees marked by the BLM in 1956 were found as follows:
11" vine maple with healed blazes bears N 65°29' E
58.5 ft.
30" fir with healed blazes bears S 48°27' E 24.3 ft.
30" fir with healed blazes bears S 35°59' W 59.1 ft.
17" fir with healed blazes bears N 35°44' W 31.8 ft.

Section corner common to Sections 3 and 4 in Township 33
South, and Sections 33 and 34 in Township 32 South:
Found, the 2.5" reducer on a 1.5" pipe set by the
County Surveyor in 1955, and the following trees marked
at that time:
5" oak with healed blazes bears N 40° W 6.0 ft.
9" oak with healed blazes bears N 60° E 30.6 ft.
22" fir with healed blazes bears S 36° E 64.5 ft.

Quarter-section corner common to Sections 4 and 5: Found,
the 3" diameter brass cap on a 2" pipe, exposed 3",
stamped "Oregon State Board of Forestry", and the
following bearing trees:
24" fir with healed blazes bears N53°31'E 21.8 ft.
17" oak with healed blazes bears S40°16'W 96.7 ft.
20" pine with healed blazes bears N63°35'W 50.6 ft.
A granite stone with a chiseled "+" bears S 25°14'E
5.28 ft.

Quarter-section corner common to Sections 4 and 9: Found,
a 3" diameter brass cap on a 2" pipe, exposed 3",
stamped "Oregon State Board of Forestry, LS 359, 1964"
from which bears the following original bearing tree:
47" oak with scribing visible bears N 14°09'W 149.0 ft.
A bearing tree marked in 1964, now a 14" fir snag with
scribing visible, bears S 42° E 59 ft.

Quarter-section corner common to Sections 3 and 4: Found,
the 1973 BLM brass cap on a 2.5" pipe, exposed 4" above
a mound of stone, and the following bearing tree:
17" pine with scribing visible bears N65°02'W 84.4 ft.
Also found a chiseled "+" in a rock outcropping, bears
N 27°17'E 65.16 ft.
Both objects were marked on Filed Survey No. 2843.

Quarter-section corner between Section 33, Township 32
South, and Section 4, Township 33 South: Found,
a 3" diameter brass cap on a 2" pipe, exposed 3",
stamped "Oregon State Board of Forestry, LS 359, 1964"
from which bears the following 1964 bearing tree:
17" fir with healed blazes bears S35°E 17.7 ft.
A 19" fir with possible healed lower blaze bears N75°E
90 ft.

West sixteenth-section corner between Sections 4 and 9:
Found, the 3.5" diameter brass cap on a 2.5" pipe, set
by the BLM in 1974, exposed 7", and the following
bearing trees:
19" fir with healed blazes bears N 42°25' E 52.0 ft.
14" pine with healed blazes bears S 14°36' E 33.4 ft.

East sixteenth-section corner between Section 33, Township
32 South, and Section 4, Township 33 South: No
monument found or set. The 1965 Oregon State Board of
Forestry monument, a 3" diameter brass cap on a 2"
pipe, exposed 7", intended to be set at the sixteenth
corner position, bears N 9°19' E 1.57 ft., from which
bear the following bearing trees:
37" fir with healed blazes bears N40°E 46.0 ft.
30" fir with healed blazes bears S55°E 15.9 ft.

South sixteenth-section corner between Sections 4 and 5:
Found the 5/8" diameter iron rebar set by the BLM in
1974, exposed 4", and the following bearing tree:
24" hickory with scribing visible bears S 79° W 107.18
ft.

Center-south sixteenth section corner: Found, the 3"
diameter brass cap on a 2" pipe, exposed 10",
stamped "Oregon State Board of Forestry, LS 359, 1965".
No bearing trees were found.

Center-north sixteenth section corner: Found, the 3"
diameter brass cap on a 2" pipe, exposed 8",
stamped "Oregon State Board of Forestry, LS 359, 1964",
and the following bearing trees:
12" fir with healed blaze bears S 53° E 7.0 ft.
6" fir with scribing visible bears S 14° W 4.9 ft.

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:
32" + 33
21" fir with healed blazes bears
N37°51'W 106.83 ft. 5 + 4
12" fir with healed blazes bears T33S 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.

Center quarter-section corner: Set a 30" long Berntsen
aluminum monument, flush in a mound of stone, with the
aluminum cap stamped as shown here,
from which bear the following:
The 1974 BLM brass cap monument
intended to mark the C 1/4 bears T33S R1E
S26°43'W 2.81 ft. C 1/4 + S 4
1988
An 8" oak, marked by the BLM, bears LS 1656
S 36°56' W 16.56 ft.

REGISTERED
PROFESSIONAL
LAND SURVEYOR

Roger R. Roberts

OREGON
JULY 14, 1978
ROGER R. ROBERTS
1656

U.S. ARMY ENGINEER DISTRICT, PORTLAND

ROGUE RIVER BASIN
ELK CREEK LAKE
PROJECT BOUNDARY MONUMENTATION
SECTION 4, TOWNSHIP 33 SOUTH, RANGE 1 EAST, W.M.
JACKSON COUNTY, OREGON

SUPERVISED: <i>ARR</i>	DRAWN: H-P CAM	Ref: Real Estate Segment Map 5 NPPEN-SY-86-50
DATE: August, 1988	SHEET: 2 of 2	PREPARED BY: HOFFBUHR & ASSOCIATES, INC. MEDFORD, OREGON