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SURVEY NARRATIVE TO COMPLY WITH PARAGRAPH 209.250 OREGON REVISED STATUTES

LOCATION: Section 18, 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 18, as shown on Segment 2 of the Corps of Engineers Elk Creek Lake Real Estate drawings. The survey was performed during May 1987 through January 1988.

PACCEDURE: Establishing Lambert State Plane Coordinate control:

Second order control monument Station WEC-8 and Station WEC-9, established by the Corps of Engineers in 1965, were used as a basis of Lambert State Plane Coordinates (South Zone). The 1972 adjusted coordinates were used. The line between these two monuments was used as a basis of bearing. The USCE record bearing from WEC-8 to WEC-9 = North 43°50' 18.3" 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 consistancy 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 the Station WEC-8 is:

Scale factor (latitude N 42 43 06") = 0.9999253
Elevation factor (1700') = 0.9999187
Combined (grid) factor = 0.9998440
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 18 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.

Only the southwest and northwest section corners and west quarter-section corner of Section 18 have been perpetuated from original evidence.

The northeast corner of Section 18 was monumented at a double proportionate position by the BLM in 1965, using the northwest and southeast corners of the section, the section corner to the east common to Sections 8, 9, 17, and 16, and the quarter-section corner to the north common to Sections 7 and 8. The latter corner has been perpetuated from original evidence. The northeast corner of Section 17 was monumented by the BLM in 1965, using a 3-way fence intersection, 50 year old unrecorded bearing trees, and the fact that the location had been used for many years as the corner.

The southeast corner of the Section 18, which had been perpetuated by the BLM from original evidence, falls in an area which has been cleared for quarry operations in conjunction with the dam construction. No evidence of the monument or corner accessories remains. The coordinate location was determined by references taken by Hoffbuhr & Associates, Inc., shortly before the corner was obliterated. The north, south, and east quarter-section corners of Section 18 were monumented by the BLM at single proper-

The north, south, and east quarter-section corners of Section 18 were monumented by the BLM at single proportionate position. The monument at the east quarter-section corner was evidently replaced by the US Corps of Engineers in 1973.

The positions of these monuments in relation to the controlling corners used for the proportioning were checked for accuracy. Also, a ground search was made for evidence of the original survey. No additional evidence was found. As shown on the map on sheet 1, the monuments found at the north and center quarter-section corners, the two sixteenth-section corners on the east boundary of the section, the east sixteenth-section corner on the north boundary of the section, and the center-south sixteenthsection corner were not used for this survey. They 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 1/1280 for latitude and departure independently. No monuments were set at the computed positions except for the north quarter-section corner and the south sixteenth-section corner between Sections 17 and 18, since they are both angle points on the project boundary.

Using the section control determined as described above. Section 18 was subdivided and monumented as shown on the plat on sheet 1. The intermediate project boundary monuments were positioned for intervisibility.

SECTION CONTRUL - (Bearings oriented to true north)
FOUND:

S 59 40' W 36.8 ft.

Southwest corner of Section 18: Found, the GLO brass cap on a 2" dia. pipe, set in 1917 from found original evidence, and the following bearing trees marked in 1917; A 15" fir with healed blazes bears N 4°15' W 22.4 ft. A 23" fir with healed blazes bears S 41°08" E 14.3 ft. 20" fir snag with scribing visible bears N 31°45' E 42.4 ft. Also found were the following trees marked by the BLM in 1974; 13" madrone, scribing visible, bears N 38°15' E 29.7 ft. A 13" fir with healed blazes bears S 67°19' E 43.1 ft. An 8" fir of unknown origin, with healed blazes, bears

Northeast corner of Section 17: Found, the BLM brass cap set in 1965, on a 2" diameter pipe exposed 12", and the following bearing trees; 15" black oak, blazed in 1965, bears N 73 11'E 76.1 ft. 16" fir with lower healed blazes of unknown origin, bears S 51 36' E 111.6 ft.

set in 1956, on a 2" diameter pipe exposed 14", with notched stone alongside, and the following bearing trees;
15" fir with healed blazes bears N 63°03' E 41.7 ft.
10" fir with healed blazes bears S 19°03' E 19.0 ft.
57" fir with ax marks, no scribing visible, bears S 28°34' E 39.6 ft.

Northwest corner of Section 18: Found, the BLM brass cap

The slab remains of a fir, with scribing visible, bears S 8 42' E 31.8 ft.

Northeast corner of Section 18: Found, the BLM brass cap set in 1965, on a 2" diameter pipe exposed 13", and the following bearing trees; 10" fir snag with healed blazes bears N 10° E 23.7 ft. 8" fir, dead and down, scribing visible, bears S 52° E 27.2 ft. 13" fir snag, with healed blazes, bears S 64° W 4.9 ft. 8" pine with healed blazes bears N 75° W 45.4 ft.

Quarter-section corner common to Sections 7 and 8: Found, the BLM brass cap set in 1965, on a 1" pipe, exposed 16", and the following bearing trees; 14" fir with healed blazes bears S 21°44' E 66.5 ft. 9" fir with healed blazes bears N 67°57' E 18.9 ft.

West quarter-section corner of Section 18 only: Found, the 1956 BLM bronze cap on a 2.5" pipe, exposed 3", and the following bearing trees; 9" chinquapin with scribing visible bears N 28°54'E 6.57 ft.
26" madrone with healed blaze bears S 86°42' E 13.4 ft. 41" fir with healed blaze bears S 76° W 22.9 ft.

Quarter-section corner common to Sections 17 and 18:
Found, a 4" diameter brass disc set in concrete, marked
"...Corps of Engineers...1973...", and the following
bearing tree;
19" diameter fir with healed blaze, marked by the BLM

in 1965, bears N 81 33'W 32.3 ft.

Quarter-section corner common to Sections 18 and 19:
Found, the 1974 BLM brass cap on a 2.5" diameter pipe,
flush in a mound of stone, and the following bearing
trees:

flush in a mound of stone, and the following bearing trees;
20" pine with scribing visible bears N 45°53'E 33.8 ft.
13" fir with healed blazes bears S 28°30'W 65.4 ft.

Center quarter-section corner: No monument found or set at

the computed corner position. The 1974 BLM brass cap monument intended to be set at the corner position bears S 9°44'W 7.92 ft., from which bear the following found bearing trees;
14" fir snag, with scribing visible, bears S 73° E 28.0 ft.
15" fir snag, with scribing visible, bears N 82° W 17.0 ft.

East sixteenth-section corner between Sections 18 and 19: Found the 1974 BLM brass cap on a 2.5" diameter pipe, in a mound of stone, and the following bearing trees; 12" fir with healed blazes bears S 32° W 22.6 ft. 9" fir with partially healed blazes bears N 21° W 19.9 ft.

East sixteenth-section corner between Sections 7 and 18: No monument found or set at the computed position. The 1965 BLM brass cap monument intended to be set at the corner position bears S 57°05' E 4.78 ft., from which bear the following found bearing trees; 17" fir with healed blazes bears N 33°36'E 4.8 ft. 15" fir with healed blazes bears S 50°38'W 11.6 ft.

North sixteenth-section corner between Sections 17 and 18:

No monument found or set at the computed position. The
1965 BLM brass cap monument intended to be set at the
corner position bears N 67°22' E 1.87 ft., from which
bear the following found bearing trees;
7" white oak with healed blaze bears S 86°40'E 14.2 ft.
12" fir with healed blazes bears N 85°29'W 20.8 ft.

Center-south sixteenth-section corner: No monument found or set at the computed position. The 1974 BLM brass cap monument intended to be set at the corner position bears S 40°44'W 2.82 ft., from which bear the following found bearing trees; 29" fir with healed blazes bears N 4°54'W 21.0 ft.

10" madrone with healed blazes bears S 47 24'E 25.3 ft.

SET:

North quarter-section corner of Section 18: Set a 30" long Berntsen aluminum monument, exposed 4", with the aluminum cap stamped as shown here, from which bear the following;

The 1965 BLM brass cap monument

5 7 intended to be set at the propor
tionate position bears N 29°42'W

5 18

5.14 ft. From the found monument

LS 1656 were found the following bearing trees;

8" fir with healed blazes bears S 29°25'W 8.8 ft.

14" for with healed blazes bears N 42°34'W 100.3 ft.

South sixteenth—section corner between Sections 17 and 18:

Set a 30" Berntsen aluminum monument, flush, with the aluminum cap stamped as shown here,

from which bear the following;

The 1965 BLM brass cap monument

S 1/16 +

intended to be set at the propor—

S 18 S 17

tionate position bears N 40°30'E

2.97 ft. From the found monument were found the following bearing trees;

16" madrone with healed blaze bears S 74° E 55.0 ft.

14" fir snag with scribing visible bears S 28° E 8.9

Center-north sixteenth-section corner:
Set a 30" Berntsen aluminum monument, flush, with the aluminum cap stamped as shown here, and marked the following bearing trees;

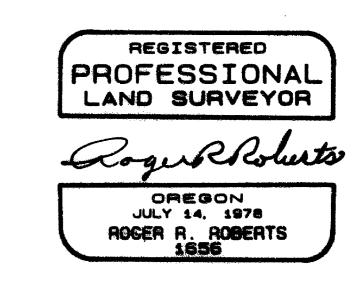
8" fir bears S 50° E 10.9 ft. CN 1/16 + 5" fir bears S 75° W 13.6 ft. LS 1656 Both trees are marked "CN 1/16 BT"

Center-east sixteenth-section corner:

Set a 30" Berntsen aluminum monument, flush, with the aluminum cap stamped as shown here, and marked the following bearing trees; 1987

9" fir bears N 78° E 10.2 ft. CE 1/16 + 10" oak bears S 29° E 21.1 ft. LS 1656

Both trees are marked "CE 1/16 S 18 BT"



U.S. ARMY ENGINEER DISTRICT, PORTLAND

ROGUE RIVER BASIN ELK CREEK LAKE

PROJECT BOUNDARY MONUMENTATION

SECTION 18, TOWNSHIP 33 SOUTH, RANGE 1 EAST, W.M. JACKSON COUNTY, OREGON

SUPERVISED: DRAWN: Ref: Real Estate Segment Map 2

ORC H-P CAM NPPEN-SY-86-50

DATE: PREPARED BY: HOFFBUHR & ASSOCIATES, INC. MEDFORD, OREGON

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