



PROJECT BOUNDARY			
Sec cor 29, 30, 31, 32			
30/31-01-L	S 87°00'58.2" W	133.300	371923.962 1398561.124
30/31-02-L	S 87°00'58.2" W	338.486	371917.024 1398428.005
30/31-03-L	S 87°00'58.2" W	247.510	371899.404 1398089.977
30/31-04-L	S 87°00'58.2" W	299.979	371886.520 1397842.803
E 1/16 Sec 30/31	S 87°00'58.4" W	331.138	371870.905 1397543.231
30-01-L	N 2°51'37.3" E	245.120	371853.668 1397212.542
30-02-L	N 2°51'37.3" E	224.374	372098.483 1397224.774
30-03-L	N 2°51'37.3" E	91.871	372322.577 1397235.971
30-04-L	N 2°51'37.3" E	410.019	372414.334 1397240.555
30-05-L	N 2°51'37.3" E	159.552	372823.842 1397261.016
SE 1/16	N 2°51'37.3" E	187.463	372983.195 1397268.978
30-06-L	N 2°51'37.3" E	322.020	373170.425 1397278.333
30-07-L	N 2°51'37.3" E	284.361	373492.044 1397294.402
30-08-L	N 2°51'37.3" E	125.367	373776.050 1397308.593
30-09-L	N 2°51'37.3" E	102.336	373901.261 1397314.849
30-10-L	N 2°51'37.3" E	345.349	374003.470 1397319.956
CE 1/16	N 2°51'37.3" E	138.967	374348.388 1397337.189
30-11-L	N 2°51'03.1" E	165.100	374487.182 1397344.124
30-12-L	N 2°51'03.1" E	606.602	374652.077 1397352.335
30-13-L	N 2°51'03.1" E	176.998	375257.928 1397382.505
30-14-L	N 2°51'03.1" E	136.119	375434.707 1397391.309
NE 1/16	N 2°51'03.1" E	233.457	375570.657 1397398.079
30-15-L	N 87°48'14.7" W	260.935	375803.825 1397409.690
30-16-L	N 87°48'14.7" W	185.741	375813.823 1397148.947
Approx centerline of Elk Creek	N 87°48'14.7" W	82.0	375820.940 1396963.343
30-17-R	S 90°00'00.0" W	79.7	375015.621 1396763.051
30-18-R	S 1°25'32.9" W	1.245	375015.621 1396683.360
L 99+00	N 88°34'27.1" W	50.000	375014.377 1396683.330
30-19-R	N 88°34'27.1" W	50.000	375015.621 1396633.345
30-20-R	N 1°25'32.9" E	37.642	375016.865 1396583.360
Curve right:	Delta: 6 13 00.0	Radius: 1195.916	375054.496 1396584.297
	Arc: 129.758	Tangent: 64.943	375183.785 1396594.550
30-21-R	N 7°38'33.0" E	231.652	375183.785 1396594.550
30-22-R	N 87°04'54.9" W	101.034	375413.379 1396625.358
30-23-R	N 87°04'54.9" W	166.698	375418.522 1396524.455
30-24-R	N 87°04'54.9" W	307.881	375427.008 1396357.973
30-25-R	N 2°55'05.1" E	412.991	375442.682 1396050.492
CN 1/16	N 2°55'05.1" E	62.984	375855.137 1396071.516
30-26-R	N 2°55'05.1" E	90.613	375918.040 1396074.723
30-27-R	N 2°55'05.1" E	935.124	376008.535 1396079.336
30-29-R	N 2°55'05.1" E	181.797	376942.446 1396126.941
30-30-R	N 2°55'05.1" E	88.336	377124.008 1396136.196
1/4 Sec 19/30			377212.229 1396140.693

- LEGEND
- Found USCE brass disc, second order control monument
 - Found brass disc set by US Corps of Engineers
 - Found brass disc set by Bureau of Land Management
 - Found brass disc set by Jackson County Surveyor
 - Found iron pin with aluminum cap set on Survey 11166
 - No monument set. See sheet 3 for additional information
 - Set Berntsen aluminum monument stamped with point number, date, and "L.S. 1656". Alongside, set metal post with boundary sign.
 - Set brass disc in concrete at base of fence post
 - Set brass disc on rock surface
 - General Land Office record measurements *
 - Bureau of Land Management record measurements *
 - Fenceline
- * 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 April, 1987, through April, 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 6/3/88 By Byk
 This survey consists of:
3 sheet(s) Map
0 page(s) Narrative
 JACKSON COUNTY SURVEYOR

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

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

SURVEY NARRATIVE TO COMPLY WITH PARAGRAPH 209.250 OREGON REVISED STATUTES

SECTION CONTROL - (Bearings oriented to true north)

LOCATION: Section 30, Township 33 South, Range 1 East of the Willamette Meridian, Jackson County, Oregon.

FOUND:

PURPOSE: To monument the boundary corners and post line markers along that portion of the Elk Creek Project Boundary being in Section 30, as shown on Segment 1 of the Corps of Engineers Elk Creek Lake Real Estate drawings. The survey was performed during April 1987 through April 1988.

PROCEDURE: Establishing Lambert State Plane Coordinate control:

Second order control monument Station JANET, established by the Corps of Engineers in 1974, was used as a basis of Lambert State Plane Coordinates (South Zone). The 1974 adjusted coordinates were used. The line from Station JANET to Station ELK, established in 1968 and located in the southwest quarter of adjoining Section 29, was used as a basis of bearing. The USCE record bearing from JANET to ELK = South 41°32'29.0" 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 the center 1/4 corner of Section 30 is: Scale factor (latitude N 42°40'17") = 0.9999320 Elevation factor (1600') = 0.9999235 Combined (grid) factor = 0.9998555

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:

Most of that portion of the project boundary being in Section 30 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 location of the northeast corner of the section falls in the construction area of the Elk Creek dam. The monument and all accessories were destroyed by excavation work. The coordinates used were those as determined by a registered surveyor (Oregon LS 1069) in 1986, just prior to the necessary destruction of the corner. For additional information, refer to the narrative that accompanies the project boundary map for Section 29, on file in the Jackson County Surveyor's Office as Survey No. 11179.

The southeast corner of Section 30 and the south, north, and west quarter-section corners have been perpetuated from original evidence. A single proportionate position was computed for the east quarter-section corner and a ground search made for evidence of the original survey. None was found. The 1974 BLM monument was found to be out of position by 7.37 feet. This was determined 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. Therefore, the computed proportionate position was used. No monument was set.

The southwest corner of Tract 100 was located by deed record distance along the north-south centerline of Section 30, using geodetic rather than grid distance. The deed (Instrument No. 72-04152 of the Official Records of Jackson County) calls the bearing of the north-south centerline as being "North", and the next call, along the south boundary of Tract 100, as "East". The south boundary of the tract was therefore held perpendicular to the section centerline.

The easterly and westerly boundaries of Tract 101 lie parallel with and 50.00 feet from the centerline of the relocated Elk Creek Road, with the southerly boundary being perpendicular with the centerline.

Instrument No. 73-01225 of the Official Records of Jackson County describes Tract 100-2 as being "... North of a line that extends due East from a point that lies South 47°10'12" West a distance of 2964.15 feet from the Northeast corner of said Section 30....". This "point" was interpreted as being the same location as Station L 99+00 on the centerline of relocated Elk Creek Road. The south boundary of Tract 100-2 was therefore determined by a line running due East (grid bearing) from L 99+00.

Using the control determined as described above, Section 30 was subdivided and monumented as shown on the plat on sheets 1 and 2. The intermediate project boundary monuments were positioned for intervisibility.

Southeast corner of Section 30: Found, the 1974 BLM brass cap on a 2.5" diameter pipe, exposed 9" in a mound of stone, and the following bearing trees: 19" dia. white oak, marked by the County Surveyor in 1929, with scribing visible in the upper blaze, the lower blaze rotted out, bears N 88°29' E 104.3 ft. 17" dia. white oak, marked by the GLO (General Land Office), no scribing visible in upper or lower blazes, bears S 10°25' W 57.3 ft. 19" dia. black oak, marked by the County Surveyor in 1970, no scribing visible in upper or lower blazes, bears S 82°51' W 43.9 ft.

Northwest corner of Section 30: Found, a brass cap on a 2.5" diameter pipe, established by single proportionate measurement by the BLM in 1974, flush with the ground, and the following 1974 bearing trees: 10" dia. pine with healed lower blaze bears S 46°47' East 31.1 ft. 17" dia. dead fir snag, scribing visible in lower blaze, bears S 73°11' W 62.4 ft. 20" dia. fir with scribing visible in lower blaze, bears N 75°02' W 40.2 ft. 19" dia. fir with scribing visible in lower blaze, bears N 50°44' E 33.8 ft.

West quarter-section corner of Section 30: Found, a 4" bronze cap on a 1.5" diameter pipe, set by the US Corps of Engineers in 1968, exposed 8", from which an original bearing tree, now a 22" dia. oak with rotted center, bears N 69°26' E 47.39 ft. Additional bearing trees marked by Corps of Engineers were found as follows: 25" dia. fir snag with scribing visible in lower blaze bears S 54°56' E 42.8 ft. 10" dia. madrone with scribing visible in lower blaze bears S 51°17' W 23.3 ft.

North quarter-section corner of Section 30: Found, a 4" bronze cap on a 1.5" dia. pipe, set by the US Corps of Engineers in 1968, exposed 7", from which an original bearing tree, now an 18" dia. oak, no scribing visible in open and rotted blazes, bears N 74°14' E 21.4 ft. Additional trees marked by the Corps of Engineers, were found as follows: 11" fir with healed blazes bears N 40°51" E 6.4 ft. 9" fir with scribing partially visible in lower blaze bears S 31°28' E 13.2 ft.

South quarter-section corner of Section 30: Found, the 1970 County Surveyor brass cap on a 1.5" pipe, exposed 2", and the following bearing trees: 12" oak original bearing tree with blazes chopped out, bears N 19°10' E 14.7 ft. 30" fir snag marked by the County Surveyor in 1929, with rotted blazes, bears S 88°07' W 8.2 ft. 14" dia. oak marked by the County Surveyor in 1970 bears S 12°57' E 26.8 ft. 20" oak marked by the County Surveyor in 1970 bears N 80°39' E 61.3 ft.

East quarter-section corner Section 30: No monument found or set at computed single proportionate position. The 1974 BLM brass cap monument intended to be set at the proportionate position bears N 23°51' W 7.37 ft., from which the following trees, marked in 1974, bear: 12" fir with healed blazes bears S 43°15' E 35.5 ft. 7" fir with healed blazes bears N 62° W 17.8 ft.

East sixteenth-section corner between Sections 19 and 30: Found the 1974 BLM brass cap on a 2.5" diameter pipe in a mound of stone, and the following 1974 bearing trees: 11" dia. pine with scribing visible in lower blaze bears N 48° E 24.8 ft. 8" dia. oak with healed blazes bears South 64° East 3.0 ft. (BLM record = 27.1 ft.)

SET:

Center quarter-section corner Section 30: Set a 24" long Berntsen aluminum monument, with the 3.5" cap stamped as shown here, and marked the following bearing trees: T33S R1E C 1/4 + S 30 A 15" locust bears S 52° E 23.2 ft. 1988 An 8" white oak bears S 58° W 41.4 ft. Both trees are marked "C 1/4 S 30 BT". LS 1656

Center North sixteenth-section corner of Section 30: Set a Berntsen aluminum monument, with the aluminum cap stamped as shown here, and marked the following bearing trees: 1987 A 12" pine bears N 72° E 21.2 ft. c An 8" pine bears S 21° E 22.6 ft. N 1/16 + S 30 c Both trees are marked "CN 1/16 S 30 BT". LS 1656

East sixteenth-section corner between Sections 30/31: Set a Berntsen aluminum monument, with the aluminum cap stamped as shown here, and marked the following bearing trees: A 10" white oak bears N 52°44' W 47.4 ft. 1987 S 30 A 12" white oak bears S 7°06' E 44.2 ft. E 1/16 + S 31 Both trees are marked "E 1/16 S 30/31 BT". LS 1656

Center east sixteenth-section corner of Section 30: Set a Berntsen aluminum monument, with the aluminum cap stamped as shown here, and marked the following bearing trees: A 7" oak bears N 72° E 33.5 ft. 1987 An 11" white oak bears S 42° E 29.9 ft. Both trees are marked "CE 1/16 S 30 BT". E 1/16 c + c S 30 LS 1656

Southeast sixteenth-section corner of Section 30: Set a Berntsen aluminum monument, with the aluminum cap stamped as shown here, and marked the following bearing trees: An 11" pine bears N 60° E 11.8 ft. 1987 A 12" madrone bears S 11° W 23.1 ft. Both trees are marked "SE 1/16 + S 30 BT". SE 1/16 + S 30 LS 1656

Northeast sixteenth-section corner of Section 30: Set a Berntsen aluminum monument, with the aluminum cap stamped as shown here, and marked the following bearing trees: A 10" oak bears S 84° W 18.8 ft. 1987 A 13" oak bears S 45° E 10.0 ft. NE 1/16 + S 30 Both trees are marked "NE 1/16 S 30 BT". LS 1656

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

Table with 3 columns: SUPERVISED (RRR), DRAWN (H-P CAM), Ref: Real Estate Segment Map 1 (NPPEN-SY-86-50); DATE: MAY, 1988; SHEET: 3 of 3; PREPARED BY: HOFFBUHR & ASSOCIATES, INC. MEDFORD, OREGON