

LAMBERT COORDINATES

DESCRIPTION	NORTH	EAST
Control Station EC-3	402597.880	1408390.820
Control Station EC-4	402552.520	1407790.430
Control Station EC-9	400175.630	1407880.350
Control Station EC-10	399941.710	1407568.210
Control Station EC-12	399193.700	1406833.680
Control Station EC-13	398606.230	1406314.630
Control Station EC-14	397883.350	1406073.110
Sec cor 28, 29, 32, 33	403354.452	1405245.552
Sec cor 27, 28, 33, 34	403355.000	1410289.120
Sec cor 33, 34, 3, 4	397929.865	1410245.235
Sec cor 4, 5, 32, 33	398097.512	1405138.243
1/4 cor Sec 32, 33	400759.131	1405201.725
1/4 cor Sec 28, 33	403385.958	1407648.803
1/4 cor Sec 33, 34	400491.470	1410326.787
1/4 cor Sec 33, 4	398080.629	1407786.920
C 1/4 cor	400627.589	1407720.614
W 1/16 Sec 28/33	403370.205	1406447.178
E 1/16 Sec 28/33	403371.127	1408968.928
N 1/16 Sec 33/34	401923.129	1410307.517
S 1/16 Sec 33/34	399210.668	1410286.011
E 1/16 Sec 33/4	398005.247	1409016.078
W 1/16 Sec 33/4	398089.071	1406462.582
S 1/16 Sec 32/33	399428.321	1405169.984
N 1/16 Sec 32/33	402056.791	1405223.638
CN 1/16 Sec 33	402006.769	1407684.709
CS 1/16 Sec 33	399354.105	1407753.767
CW 1/16 Sec 33	400693.355	1406461.169
CE 1/16 Sec 33	400559.525	1409023.701
NW 1/16 Sec 33	402031.780	1406454.174
NE 1/16 Sec 33	401964.942	1408996.322
SE 1/16 Sec 33	399282.386	1409019.889
SW 1/16 Sec 33	399391.213	1406461.875
C-N-NW 1/64 Sec 33	402700.992	1406450.676
C-N-N 1/64 Sec 33	402696.363	1407666.756
N-N 1/64	402639.035	1410298.295
C-S-S 1/64 Sec 33	398717.367	1407770.344
C-E-SE 1/64 Sec 33	399246.527	1409652.950
C-N-SE 1/64 Sec 33	399920.955	1409021.795
C-E-E 1/64 Sec 33	400525.497	1409675.244
N-S 1/64 Sec 33/34	399851.069	1410306.399
NE-SE 1/64 Sec 33	399886.012	1409664.097
NE-NW 1/64 Sec 33	402698.678	1407058.716
C-E-NW 1/64 Sec 33	402019.274	1407069.441
S-N-N 1/256 Sec 33/34	402281.141	1410302.876
C-W-E-E 1/256 Sec 33	400542.511	1409349.472
C-S-N-SE 1/256 Sec 33	399601.671	1409020.842
C-W-E-SE 1/256 Sec 33	399264.456	1409336.419
C-S-NE-SE 1/256 Sec 33	399566.270	1409658.523
C-W-NE-SE 1/256 Sec 33	399903.484	1409342.946
SW-NE-SE 1/256 Sec 33	399583.970	1409339.683
C-S-S-S 1/256th Sec 33	398398.998	1407778.632
Pt beg Trct 305-1, 306-2, 306-3	399419.234	1405486.353
Point of beg Tract 306-1	398562.280	1405149.328
Point of beg. Tract 311	402417.572	1409059.312

Refer to sheet 2 for project boundary coordinates and measurements, and sheet 5 for horizontal control details

**U.S. ARMY ENGINEER DISTRICT, PORTLAND**

ROGUE RIVER BASIN  
ELK CREEK LAKE  
PROJECT BOUNDARY MONUMENTATION  
SECTION 33, 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: SEPTEMBER, 1988	SHEET: 1 of 5	PREPARED BY: HOFFBUHR & ASSOCIATES, INC. MEDFORD, OREGON

**RECEIVED**

Date: 9-21-88 by *[Signature]*

This survey consists of:  
5 sheets of Map  
0 plotted Narrative

JACKSON COUNTY SURVEYOR

**REGISTERED PROFESSIONAL LAND SURVEYOR**

*Roger R. Roberts*

OREGON  
JULY 14, 1978  
ROGER R. ROBERTS  
1856

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 February, 1988, through August, 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. DACN57-87-C-0054.

*Roger R. Roberts*  
Roger R. Roberts

T 32 S R 1 E 33 TL 1300  
T 32 S R 1 E 27 TL 1800



SURVEY NARRATIVE TO COMPLY WITH PARAGRAPH 209.250  
OREGON REVISED STATUTES

LOCATION: Section 33, 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 33, as shown on Segment 3 of the Corps of Engineers Elk Creek Lake Real Estate drawings. The survey was performed during February 1988 through August 1988.

PROCEDURE: Establishing Lambert State Plane Coordinate control:

Second order control monument Station EC-9, established 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-9 to Control Station EC-10 was used as a basis of bearing. The USCE record bearing from EC-9 to EC-10 = South 53°09'06.6" 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-9 is:

Scale factor (latitude N 42°44'34") = 0.9999221  
Elevation factor (1700') = 0.9999187  
Combined (grid) factor = 0.9998408

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 33 is dependent upon section subdivision and subsequent 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 southeast and northwest section corners and the north, south, east and west quarter-section corners of Section 33 have been perpetuated from original evidence.

The northeast corner of the section was re-established by the Jackson County Surveyor in 1955. According to the re-establishment notes, an attempt was made by the County Surveyor to set the monument at a double-proportionate position by using the four adjacent quarter-section corners, but this created a large discrepancy between the resultant north-south distances and the original record distance. He stated that an examination of the topographic calls isolated the problem to an error in the original survey notes between the section corner and the 1/4 corner of Sections 33 and 34 to the south. The corner position was therefore established at single proportionate position east-west and record distance of 2640 ft. from the north.

The monument and all references marking the southwest 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, (RLS 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 southwest 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 backsight 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.

As shown on the map on sheet 1, the monument set by the Oregon State Department of Forestry at the east sixteenth-section corner on the south boundary of Section 33 was not used for this survey. This monument was 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 monument was set at the computed position of the east sixteenth-section corner.

The metal-filled reducers found at the north 1/16 corner between Sections 33 and 34 and at the east 1/16 corner between Sections 28 and 33 were both stamped with "CS", indicating that they were set by the County Surveyor. They most likely were set during a private survey, Filed Survey No. 703, (RLS 281), in 1955.

The project boundary running through the west half of the southwest quarter of the section was established at 200 ft. westerly of and parallel with the line as described in Instrument No. 74-08008, of the Official Records of Jackson County, for Tracts 305-1, 305-2, and 305-3, with the exception of that portion between monuments 33-04-R and 33-08-R. That particular portion of the boundary was determined at 50 ft. northerly of and parallel with a centerline as described in Instrument No. 72-16332 for Tract 306-2.

The project boundary running through the northwest quarter of the northeast quarter-section was established at 200 ft. northerly of and parallel with the line as described in Instrument No. 73-06438 for Tract 311.

As shown on Sheets 3 and 4, the approach roads lying between Elk Creek Road and the project boundary in Section 33 were monumented. An attempt was made to hold to the record locations of the road centerlines as shown on the maps of the as-constructed Elk Creek Road, referred to above as Survey No. 10972. However, most of the road alignments were found to differ considerably from the record, and the roads were monumented according to the existing centerlines.

Using the section control determined as described above, Section 33 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 3 and 4 in Township 32 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.

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.

Section corner common to Sections 27, 28, 33, and 34: Found, the 1.5" diameter reducer on a 1" pipe set in concrete, set by the County Surveyor in 1955, from which the four bearing trees marked at that time were found in good condition. Only two of the trees were measured to at this time:

18" fir with healed blazes bears S 59° E 216.4 ft.  
24" fir with healed blazes bears N 63° W 241.5 ft.

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 S 35° E 17.7 ft.  
A 19" fir with possible healed lower blaze bears N 75° E 90 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 Sections 28 and 33: Found, the 2.5" reducer on a 1.5" pipe set from original evidence by the County Surveyor in 1955, exposed 10", and the following bearing trees marked at that time:

17" fir with healed blazes bears S 56° E 22.7 ft.  
9" diameter sawed fir stump, tree lying nearby with healed blazes, bears N 11° E 36.2 ft.

Quarter-section corner common to Sections 33 and 34: Found, the metal-filled reducer on a 1" pipe, set by the County Surveyor in 1955 from original evidence, and the following bearing trees marked at that time:

11" fir with healed blazes bears N 36° E 90.2 ft.  
7" oak with healed blazes bears S 15° W 22.5 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 N 40° E 46.0 ft.  
30" fir with healed blazes bears S 55° E 15.9 ft.

East sixteenth-section corner between Sections 28 and 33: Found, the metal-filled reducer set in 1955 on Survey No. 730, flush with the ground at the southwest corner of a fence, and the following bearing trees:

27" fir with healed blazes bears S 45° 57' E 21.2 ft.  
20" fir with healed blazes bears N 15° E 9.2 ft.

North sixteenth-section corner between Sections 33 and 34: Found, the metal-filled reducer on a 1" pipe, exposed 6", stamped "CS", set on Survey No. 730 (RLS 281) in 1955, and the following bearing trees:

23" fir with healed blazes bears S 27° W 17.5 ft.  
12" fir with healed blazes bears S 28° E 20.0 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;	T32S R1E
21" fir with healed blazes bears	32 33
N 37° 51' W 106.83 ft.	5 4
12" fir with healed blazes bears	T33S R1E
S 24° 17' W 108.34 ft.	1988
12" fir with scribing visible bears	LS 1656
S 29° 13' E 72.55 ft.	
14" fir with healed blazes bears N 86° 08' E 60.84 ft.	

The corner lies on the east cutbank of Elk Creek Road, just above the ditch bottom.

Northwest sixteenth-section corner:

Set a 30" long Berntsen aluminum monument, exposed 2", with the aluminum cap stamped as shown here and marked the following bearing trees; 1988

8" pine bears N 56° W 30.1 ft.	NW 1/16 + S 33
6" fir bears S 23° W 3.2 ft.	LS 1656

Both trees are marked "NW 1/16 S 33 BT"

Center west sixteenth-section corner: Set a 30" long Berntsen aluminum monument, exposed 2", stamped as shown here, and marked the following bearing trees; 1988

9" fir bears S 61° E 10.5 ft.	W 1/16
6" fir bears N 1° E 13.0 ft.	C+1C

Both trees are marked "CW 1/16 S 33 BT" LS 1656

Southeast sixteenth-section corner: Set a 30" long Berntsen aluminum monument, flush, stamped as shown here. Due to a recent forest fire, there were

no suitable trees available to mark as bearing trees	SE 1/16 + S 33
	LS 1656

E-W 1/64th section corner on the north boundary of Section 33 is marked by a 31" douglas-fir tree. This tree was double blazed and marked "E-W 1/64 S33 BT" on the south face, and "E-W 1/64 S28 BT" on the north face. Monument 28/33-01-R was set at 10.00 ft. to the east on the section line as a witness monument. Also, a Berntsen aluminum monument stamped "33-30-R" was set southerly 10.00 ft. as a witness monument, being on the project boundary in Section 33.

REGISTERED  
PROFESSIONAL  
LAND SURVEYOR

*Roger R. Roberts*

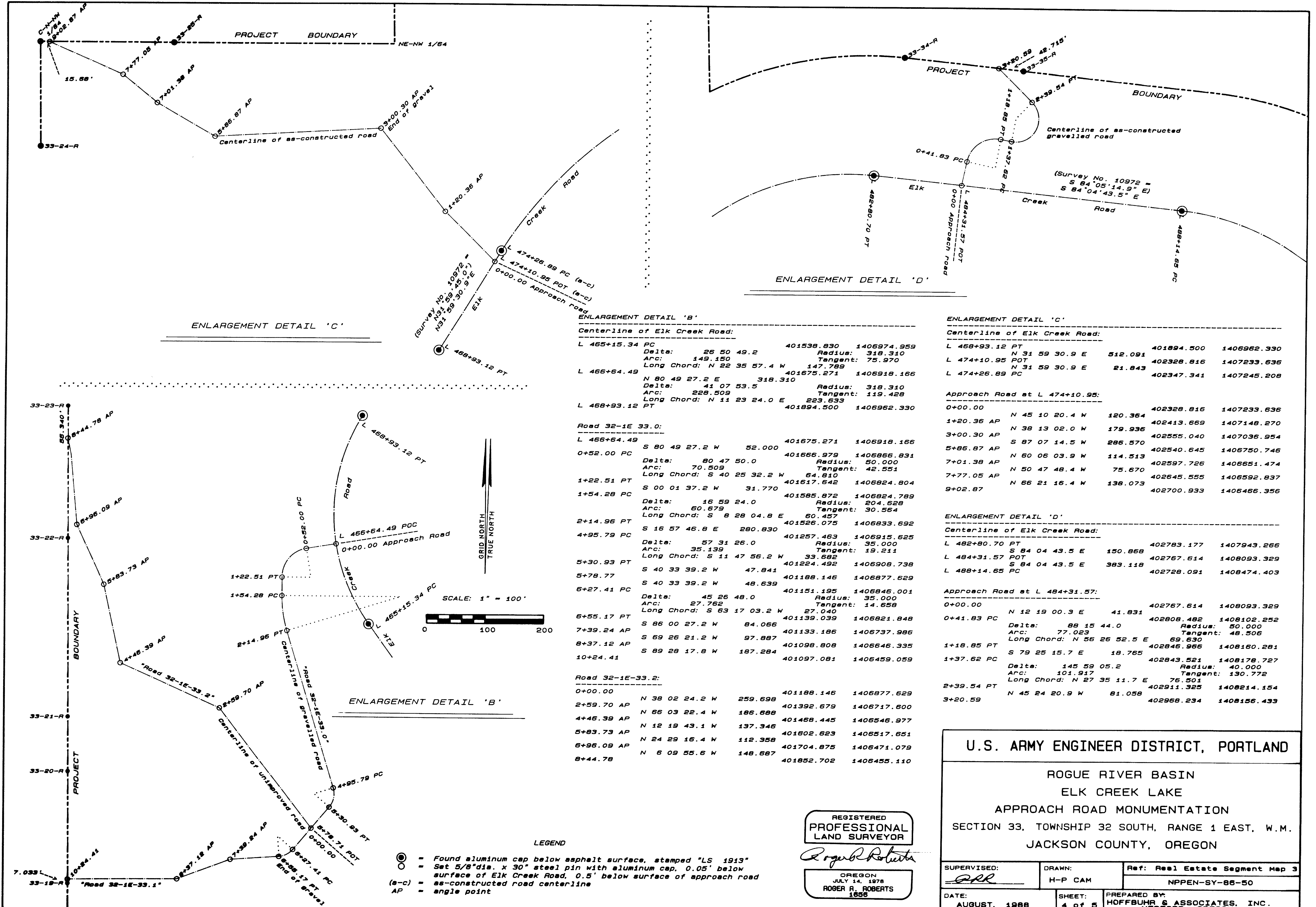
OREGON  
JULY 14, 1978  
ROGER R. ROBERTS  
1855

U.S. ARMY ENGINEER DISTRICT, PORTLAND

ROGUE RIVER BASIN  
ELK CREEK LAKE  
PROJECT BOUNDARY MONUMENTATION  
SECTION 33, 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: 5 of 5	PREPARED BY: HOFFBUHR & ASSOCIATES, INC. MEDFORD, OREGON





**ENLARGEMENT DETAIL 'B'**

Centerline of Elk Creek Road:

L 465+15.34 PC	Delta: 26 50 49.2	Radius: 318.310	401538.830	1406974.959
	Arc: 149.150	Tangent: 75.970		
L 466+64.49	Long Chord: N 22 35 57.4 W	147.789	401675.271	1406918.166
	Delta: 80 49 27.2 E	Radius: 318.310		
	Arc: 228.509	Tangent: 119.428		
L 468+93.12 PT	Long Chord: N 11 23 24.0 E	223.633	401894.500	1406962.330

Road 32-1E-33.0:

L 466+64.49	S 80 49 27.2 W	52.000	401675.271	1406918.166
0+52.00 PC	Delta: 80 47 50.0	Radius: 50.000	401666.979	1406866.831
	Arc: 70.509	Tangent: 42.551		
1+22.51 PT	Long Chord: S 40 25 32.2 W	64.810	401617.642	1406824.804
1+54.28 PC	S 00 01 37.2 W	31.770	401585.872	1406824.789
	Delta: 16 59 24.0	Radius: 204.628		
	Arc: 60.679	Tangent: 30.564		
2+14.96 PT	Long Chord: S 8 28 04.8 E	60.457	401526.075	1406833.692
4+95.79 PC	S 16 57 46.8 E	280.830	401257.463	1406915.625
	Delta: 57 31 26.0	Radius: 35.000		
	Arc: 35.139	Tangent: 19.211		
5+30.93 PT	Long Chord: S 11 47 56.2 W	33.682	401224.492	1406908.738
5+78.77	S 40 33 39.2 W	47.841	401188.146	1406877.629
6+27.41 PC	S 40 33 39.2 W	48.639	401151.195	1406846.001
	Delta: 45 26 48.0	Radius: 35.000		
	Arc: 27.762	Tangent: 14.658		
6+55.17 PT	Long Chord: S 63 17 03.2 W	27.040	401139.039	1406821.848
7+39.24 AP	S 86 00 27.2 W	84.066	401133.186	1406737.986
8+37.12 AP	S 69 26 21.2 W	97.887	401098.808	1406646.335
10+24.41	S 89 28 17.8 W	187.284	401097.081	1406459.059

Road 32-1E-33.2:

0+00.00	N 38 02 24.2 W	259.698	401188.146	1406877.629
2+59.70 AP	N 66 03 22.4 W	186.688	401392.679	1406717.600
4+46.39 AP	N 12 19 43.1 W	137.346	401468.445	1406546.977
5+83.73 AP	N 24 29 16.4 W	112.358	401602.629	1406517.651
6+96.09 AP	N 24 29 16.4 W	112.358	401704.875	1406471.079
8+44.78	N 6 09 55.6 W	148.687	401852.702	1406455.110

**ENLARGEMENT DETAIL 'C'**

Centerline of Elk Creek Road:

L 468+93.12 PT	N 31 59 30.9 E	512.091	401894.500	1406962.330
L 474+10.95 POT	N 31 59 30.9 E	21.843	402328.816	1407233.636
L 474+26.89 PC			402347.341	1407245.208

Approach Road at L 474+10.95:

0+00.00	N 45 10 20.4 W	120.364	402328.816	1407233.636
1+20.36 AP	N 38 13 02.0 W	179.936	402413.669	1407148.270
3+00.30 AP	S 87 07 14.5 W	286.570	402555.040	1407036.954
5+86.87 AP	N 60 06 03.9 W	114.513	402540.645	1406750.746
7+01.38 AP	N 50 47 48.4 W	75.670	402597.726	1406651.474
7+77.05 AP	N 66 21 16.4 W	138.073	402645.555	1406592.837
9+02.87			402700.933	1406466.356

**ENLARGEMENT DETAIL 'D'**

Centerline of Elk Creek Road:

L 482+80.70 PT	S 84 04 43.5 E	150.868	402783.177	1407943.266
L 484+31.57 POT	S 84 04 43.5 E	383.118	402767.614	1408093.329
L 488+14.65 PC			402728.091	1408474.403

Approach Road at L 484+31.57:

0+00.00	N 12 19 00.3 E	41.831	402767.614	1408093.329
0+41.83 PC	Delta: 88 15 44.0	Radius: 50.000		
	Arc: 77.023	Tangent: 48.506		
1+18.85 PT	Long Chord: N 56 26 52.5 E	69.630	402808.482	1408102.252
1+37.62 PC	S 79 25 15.7 E	18.765	402846.966	1408160.281
	Delta: 145 59 05.2	Radius: 40.000		
	Arc: 101.917	Tangent: 130.772		
2+39.54 PT	Long Chord: N 27 35 11.7 E	76.501	402911.325	1408214.154
3+20.59	N 45 24 20.9 W	81.058	402968.234	1408156.433

- LEGEND**
- = Found aluminum cap below asphalt surface, stamped "LS 1913"
  - = Set 5/8" dia. x 30" steel pin with aluminum cap, 0.05' below surface of Elk Creek Road, 0.5' below surface of approach road
  - (s-c) = as-constructed road centerline
  - AP = angle point

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ROGUE RIVER BASIN  
ELK CREEK LAKE  
APPROACH ROAD MONUMENTATION  
SECTION 33, TOWNSHIP 32 SOUTH, RANGE 1 EAST, W.M.  
JACKSON COUNTY, OREGON

SUPERVISED: <i>ARK</i>	DRAWN: H-P CAM	Ref: Real Estate Segment Map 3 NPPEN-SY-86-50
DATE: AUGUST, 1988	SHEET: 4 of 5	PREPARED BY: HOFFBUHR & ASSOCIATES, INC. MEDFORD, OREGON





11329

PROJECT BOUNDARY

RIGHT BANK:

32/33-01-R	N 27 59 00.0 E	364.033	398546.161	1405148.943
33-01-R	N 27 59 00.0 E	409.979	398867.633	1405319.753
33-02-R	Delta: 9 59 18.4		399229.679	1405512.121
	Arc: 159.722		399363.498	916.200
	Long Chord: N 32 58 39.2 E	159.520		80.064
33-03-R	Delta: 2 51 24.2		399363.498	1405598.949
	Arc: 45.681		399403.395	916.200
	Long Chord: N 39 24 00.5 E	45.675		22.845
33-04-R	N 54 00 00.0 W	7.829	399398.793	1405627.942
33-05-R	Delta: 8 00 00.0		399403.395	1405621.608
	Arc: 6.981		399407.092	50.000
	Long Chord: N 58 00 00.0 W	6.976		3.496
33-06-R	N 62 00 00.0 W	18.975	399407.092	1405615.692
33-07-R	S 88 21 15.6 E	43.147	399416.000	1405598.938
33-08-R	Delta: 8 52 53.8		399414.761	1405642.067
	Arc: 142.023		399512.242	916.199
	Long Chord: N 46 36 08.3 E	141.881		71.154
33-09-R	Delta: 11 39 40.1		399512.242	1405745.158
	Arc: 186.470		399613.968	916.200
	Long Chord: N 56 52 26.0 E	186.148		93.558
33-10-R	Delta: 14 29 43.9		399613.968	1405901.052
	Arc: 231.794		399693.216	916.200
	Long Chord: N 69 57 08.0 E	231.176		116.519
33-11-R	N 77 12 00.0 E	84.992	399693.216	1406118.220
33-12-R	N 77 12 00.0 E	267.210	399712.046	1406201.100
33-13-R	N 00 01 51.8 W	147.356	399771.246	1406461.669
33-14-R	N 00 01 51.8 W	311.561	399918.602	1406461.590
33-15-R	N 00 01 51.8 W	400230.162	400230.162	1406461.421
33-16-R	N 00 01 51.8 W	115.727	400345.889	1406461.358
33-17-R	N 00 01 51.8 W	85.413	400431.302	1406461.312
33-18-R	N 00 01 51.8 W	167.223	400598.525	1406461.221
CW 1/16	N 00 01 51.8 W	94.831	400593.355	1406461.169
33-19-R	N 00 17 58.1 W	396.698	401090.048	1406459.096
33-20-R	N 00 17 58.1 W	191.985	401282.030	1406458.092
33-21-R	N 00 17 58.1 W	93.730	401375.759	1406457.603
33-22-R	N 00 17 58.1 W	305.802	401681.556	1406456.004
33-23-R	N 00 17 58.1 W	226.488	401908.042	1406454.820
NW 1/16	N 00 17 58.1 W	123.740	402031.780	1406454.174
33-24-R	N 00 17 58.1 W	490.925	402522.699	1406451.608
C-N-NW 1/64	N 00 17 58.1 W	178.296	402700.992	1406450.676
33-25-R	S 89 46 54.8 E	229.539	402700.119	1406680.213
33-26-R	S 89 46 54.8 E	179.498	402699.435	1406859.709
NE-NW 1/64	S 89 46 54.8 E	199.008	402698.678	1407058.716
33-27-R	N 00 54 15.9 W	402.781	403101.409	1407052.358
33-28-R	N 00 54 15.9 W	85.430	403186.828	1407051.010
33-29-R	N 00 54 15.9 W	88.517	403275.334	1407049.613
33-30-R	N 00 54 15.9 W	92.760	403368.082	1407048.148
E-W 1/64 Sec 28/33	N 00 54 15.9 W	10.000	403378.081	1407047.991
28/33-01-R	N 89 14 56.1 E	10.008	403378.212	1407057.998
28/33-02-R	N 89 14 56.1 E	442.757	403384.016	1407500.716
1/4 cor Sec 28/33	N 89 14 56.1 E	148.100	403385.958	1407648.803

1/4 cor Sec 28/33	S 1 29 28.6 E	111.657	403385.958	1407648.803
33-30A-R	S 1 29 28.6 E	253.932	403274.338	1407651.709
33-31-R	S 1 29 28.6 E	96.126	403020.492	1407658.318
33-32-R	Delta: 23 51 17.0		402924.399	1407660.819
	Arc: 253.660		402987.505	609.256
	Long Chord: N 75 29 15.4 E	251.832		128.694
33-33-R	Delta: 8 28 06.1		402984.916	1407904.616
	Arc: 90.049		402963.856	609.256
	Long Chord: S 88 21 03.1 E	89.967		45.106
33-34-R	S 84 07 00.0 E	205.459	402963.856	1407994.545
33-35-R	S 84 07 00.0 E	178.809	402945.528	1408198.922
33-36-R	S 84 07 00.0 E	151.292	402930.020	1408376.789
33-37-R	Delta: 6 35 37.2		402918.840	1408527.284
	Arc: 70.114		402918.840	609.256
	Long Chord: S 80 49 11.4 E	70.075		35.096
33-38-R	Delta: 7 25 20.1		402918.840	1408596.462
	Arc: 78.925		402896.852	609.256
	Long Chord: S 73 48 42.8 E	78.869		39.518
33-39-R	Delta: 14 00 02.7		402829.653	1408672.204
	Arc: 148.877		402829.653	609.256
	Long Chord: S 63 06 01.4 E	148.507		74.811
33-40-R	S 56 06 00.0 E	213.433	402710.622	1408804.643
33-41-R	N 1 06 57.7 W	217.748	402928.328	1408981.795
33-42-R	N 1 06 57.7 W	173.551	403101.845	1408977.554
33-43-R	N 1 06 57.7 W	269.332	403371.127	1408974.174
E 1/16 Sec 28/33	S 89 18 00.5 E	158.625	403369.189	1408968.928
28/33-03-R	S 89 18 00.5 E	272.379	403365.862	1409127.541
28/33-04-R	S 89 18 00.6 E	306.971	403362.113	1409399.900
28/33-05-R	S 89 18 00.5 E	115.692	403360.700	1409706.848
28/33-06-R				1409822.532

LEFT BANK:

1/4 cor sec 33/4	N 1 29 28.6 W	318.477	398080.629	1407786.920
33-01-L = C-S-S-S 1/256	N 54 33 39.6 E	95.127	398398.998	1407778.632
33-02-L	N 54 33 39.6 E	428.211	398454.156	1407856.136
33-03-L	N 54 33 39.6 E	399.061	398702.449	1408205.013
33-04-L	N 54 33 39.6 E	504.304	398933.838	1408530.141
33-05-L	N 54 33 39.6 E	96.810	399226.252	1408941.015
SE 1/16	N 46 40 42.9 E	400.475	399282.386	1409019.889
33-06-L	N 46 40 42.9 E	39.094	399557.148	1409311.241
SW-NE-SE 1/256	N 00 35 06.5 E	29.453	399583.970	1409339.683
33-07-L	N 00 35 06.5 E	555.877	399613.422	1409339.983
33-08-L	N 00 35 06.5 E	373.260	400169.270	1409345.660
C-W-E-E 1/256	S 87 00 37.4 E	198.379	400542.511	1409349.472
33-09-L	S 87 00 37.4 E	157.959	400532.165	1409547.581
33-10-L	S 87 00 37.4 E	125.321	400523.926	1409705.325
33-11-L	S 87 00 37.4 E	496.989	400517.390	1409830.475
1/4 cor Sec 33/34	N 00 46 16.2 W	536.835	400491.470	1410326.787
33/34-01-L	N 00 46 16.2 W	49.428	401028.257	1410319.562
33/34-02-L	N 00 46 16.2 W	545.449	401077.681	1410318.897
33/34-03-L	N 00 46 16.2 W	157.690	401623.080	1410311.556
33/34-04-L	N 00 46 16.2 W	142.386	401780.756	1410309.433
N 1/16 Sec 33/34	N 00 44 33.9 W	358.042	401923.129	1410307.517
S-N-N 1/256 Sec 33/34		402281.141		1410302.876

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 33, 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: 2 of 5	PREPARED BY: HOFFBUHR & ASSOCIATES, INC. MEDFORD, OREGON

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