

BINGHAM ROAD LEGALIZATION SURVEY

SURVEY NARRATIVE

This survey was performed at the request of the Umatilla County Commissioners to determine the existing location of a portion of County Road No. 900, Bingham Road, for legalization purposes. The Bureau of Indian Affairs has obtained funding for the replacement of the bridges spanning Meacham Creek and the Umatilla River and re-alignment of portions of the road. Private consultants and right-of-way agents need to have the location of the existing road established (its location does not match original road records for Road No. 750) in order to obtain additional needed right-of-way.

Right-of-way deeds from W. H. Sayer (Book 120, Page 243, Deed Records) and Dolgay and Myrtle Thompson (Book 120, Page 288, Deed Records) were granted to Umatilla County in 1928 and 1932, respectively, for re-alignment of the old road. The deed descriptions do not fit the existing road very well and were not used. The location of a portion of the road near the Umatilla River was established by holding the location of a variety of existing survey monuments including the brass caps set by the BLM (Survey Record R-2), some of which were set in place of Krumbain's iron pipes (Survey Record R-1). The remainder of the road location is based upon a best-fit alignment of a split of the existing pavement.

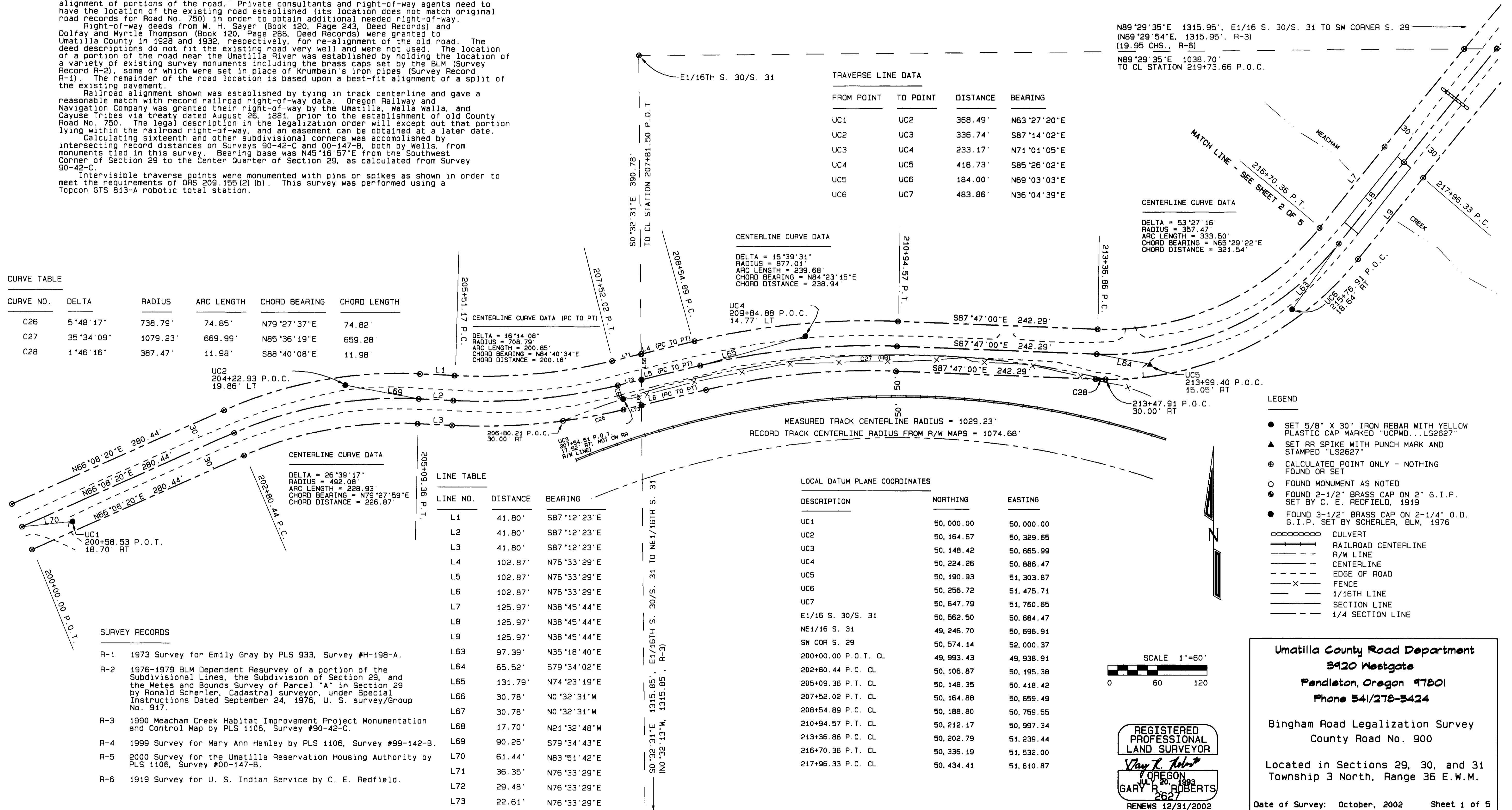
Railroad alignment shown was established by tying in track centerline and gave a reasonable match with record railroad right-of-way data. Oregon Railway and Navigation Company was granted their right-of-way by the Umatilla, Walla Walla, and Cayuse Tribes via treaty dated August 26, 1891, prior to the establishment of old County Road No. 750. The legal description in the legalization order will except out that portion lying within the railroad right-of-way, and an easement can be obtained at a later date.

Calculating sixteenth and other subdivisional corners was accomplished by intersecting record distances on Surveys 90-42-C and 00-147-B, both by Wells, from monuments tied in this survey. Bearing base was N45°16'57"E from the Southwest Corner of Section 29 to the Center Quarter of Section 29, as calculated from Survey 90-42-C.

Intervisible traverse points were monumented with pins or spikes as shown in order to meet the requirements of ORS 209.155(2)(b). This survey was performed using a Topcon GTS 813-A robotic total station.

CURVE TABLE

CURVE NO.	DELTA	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
C26	5°48'17"	738.79'	74.85'	N79°27'37"E	74.82'
C27	35°34'09"	1079.23'	669.99'	N85°36'19"E	659.28'
C28	1°46'16"	387.47'	11.98'	S88°40'08"E	11.98'



TRAVERSE LINE DATA

FROM POINT	TO POINT	DISTANCE	BEARING
UC1	UC2	368.49'	N63°27'20"E
UC2	UC3	336.74'	S87°14'02"E
UC3	UC4	233.17'	N71°01'05"E
UC4	UC5	418.73'	S85°26'02"E
UC5	UC6	184.00'	N69°03'03"E
UC6	UC7	483.86'	N36°04'39"E

CENTERLINE CURVE DATA

DELTA = 15°39'31"
RADIUS = 877.01'
ARC LENGTH = 239.68'
CHORD BEARING = N84°23'15"E
CHORD DISTANCE = 238.94'

CENTERLINE CURVE DATA (PC TO PT)

DELTA = 16°14'08"
RADIUS = 708.79'
ARC LENGTH = 200.85'
CHORD BEARING = N84°40'34"E
CHORD DISTANCE = 200.18'

CENTERLINE CURVE DATA

DELTA = 26°39'17"
RADIUS = 492.08'
ARC LENGTH = 228.93'
CHORD BEARING = N79°27'59"E
CHORD DISTANCE = 226.87'

LINE TABLE

LINE NO.	DISTANCE	BEARING
L1	41.80'	S87°12'23"E
L2	41.80'	S87°12'23"E
L3	41.80'	S87°12'23"E
L4	102.87'	N76°33'29"E
L5	102.87'	N76°33'29"E
L6	102.87'	N76°33'29"E
L7	125.97'	N38°45'44"E
L8	125.97'	N38°45'44"E
L9	125.97'	N38°45'44"E
L63	97.39'	N35°18'40"E
L64	65.52'	S79°34'02"E
L65	131.79'	N74°23'19"E
L66	30.78'	N0°32'31"W
L67	30.78'	N0°32'31"W
L68	17.70'	N21°32'48"W
L69	90.26'	S79°34'43"E
L70	61.44'	N83°51'42"E
L71	36.35'	N76°33'29"E
L72	29.48'	N76°33'29"E
L73	22.61'	N76°33'29"E

LOCAL DATUM PLANE COORDINATES

DESCRIPTION	NORTHING	EASTING
UC1	50,000.00	50,000.00
UC2	50,164.67	50,329.65
UC3	50,148.42	50,665.99
UC4	50,224.26	50,886.47
UC5	50,190.93	51,303.87
UC6	50,256.72	51,475.71
UC7	50,647.79	51,760.65
E1/16 S. 30/S. 31	50,562.50	50,684.47
NE1/16 S. 31	49,246.70	50,696.91
SW COR S. 29	50,574.14	52,000.37
200+00.00 P.O.T. CL	49,993.43	49,938.91
202+80.44 P.C. CL	50,106.87	50,195.38
205+09.36 P.T. CL	50,148.35	50,418.42
207+52.02 P.T. CL	50,164.88	50,659.49
208+54.89 P.C. CL	50,188.80	50,759.55
210+94.57 P.T. CL	50,212.17	50,997.34
213+36.86 P.C. CL	50,202.79	51,239.44
216+70.36 P.T. CL	50,336.19	51,532.00
217+96.33 P.C. CL	50,434.41	51,610.87

SURVEY RECORDS

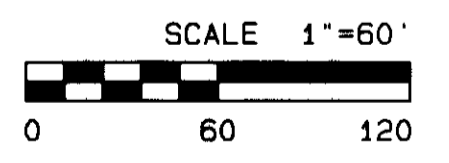
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- R-2 1976-1979 BLM Dependent Resurvey of a portion of the Subdivisional Lines, the Subdivision of Section 29, and the Metes and Bounds Survey of Parcel "A" in Section 29 by Ronald Scherler, Cadastral surveyor, under Special Instructions Dated September 24, 1976, U. S. survey/Group No. 917.
- R-3 1990 Meacham Creek Habitat Improvement Project Monumentation and Control Map by PLS 1106, Survey #90-42-C.
- R-4 1999 Survey for Mary Ann Hamley by PLS 1106, Survey #99-142-B.
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- R-6 1919 Survey for U. S. Indian Service by C. E. Redfield.

N89°29'35"E 1315.95', E1/16 S. 30/S. 31 TO SW CORNER S. 29
(N89°29'54"E, 1315.95', R-3)
(19.95 CHS., R-6)
N89°29'35"E 1038.70'
TO CL STATION 219+73.66 P.O.C.

CENTERLINE CURVE DATA

DELTA = 53°27'16"
RADIUS = 357.47'
ARC LENGTH = 333.50'
CHORD BEARING = N65°29'22"E
CHORD DISTANCE = 321.54'

- ### LEGEND
- SET 5/8" X 30" IRON REBAR WITH YELLOW PLASTIC CAP MARKED "UCPND...LS2627"
 - ▲ SET RR SPIKE WITH PUNCH MARK AND STAMPED "LS2627"
 - ⊙ CALCULATED POINT ONLY - NOTHING FOUND OR SET
 - FOUND MONUMENT AS NOTED
 - FOUND 2-1/2" BRASS CAP ON 2" G.I.P. SET BY C. E. REDFIELD, 1919
 - FOUND 3-1/2" BRASS CAP ON 2-1/4" O.D. G.I.P. SET BY SCHERLER, BLM, 1976
 - ▬ CULVERT
 - ▬ RAILROAD CENTERLINE
 - ▬ R/W LINE
 - ▬ CENTERLINE
 - ▬ EDGE OF ROAD
 - ▬ FENCE
 - ▬ 1/16TH LINE
 - ▬ SECTION LINE
 - ▬ 1/4 SECTION LINE



REGISTERED PROFESSIONAL LAND SURVEYOR
 Gary R. Roberts
 JUL 20 1993
 GARY R. ROBERTS
 2627
 RENEWS 12/31/2002

Umatilla County Road Department
 3920 Westgate
 Pendleton, Oregon 97801
 Phone 541/278-5424

Bingham Road Legalization Survey
 County Road No. 900

Located in Sections 29, 30, and 31
 Township 3 North, Range 36 E.W.M.

Date of Survey: October, 2002 Sheet 1 of 5

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 Umatilla County Surveyor
 Date 10-02
 Rec'd By KR
 No. 02-252-7

BINGHAM ROAD LEGALIZATION SURVEY

LOCAL DATUM PLANE COORDINATES

DESCRIPTION	NORTHING	EASTING
UC5	50,190.93	51,303.87
UC6	50,256.72	51,475.71
UC7	50,647.79	51,760.65
UC8	51,275.62	52,401.48
UC9	51,883.40	52,912.66
N1/16 S. 31/S. 32 WC	49,253.59	51,892.11
N1/16 S. 31/S. 32	49,254.36	51,997.11
S1/16 S. 30/S. 29	51,866.33	52,007.14
E1/16 S. 30/S. 31	50,562.50	50,684.47
NE1/16 S. 31	49,246.70	50,696.91
SW CORNER S. 29	50,574.14	52,000.37
216+70.36 P.T. CL	50,336.19	51,532.00
217+96.33 P.C. CL	50,434.41	51,610.87
225+95.98 P.T. CL	51,037.06	52,136.14

CURVE TABLE

CURVE NO.	DELTA	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
C20	0°56'57"	9933.92'	164.59'	N42°54'49"E	164.59'
C21	1°08'29"	9903.92'	197.31'	N42°49'03"E	197.31'
C22	1°20'08"	9873.92'	230.16'	N42°43'14"E	230.15'
C23	0°52'46"	9933.92'	152.46'	N39°12'07"E	152.46'
C24	1°01'33"	9903.92'	177.33'	N39°16'31"E	177.33'
C25	1°10'25"	9873.92'	202.26'	N39°20'57"E	202.26'

CENTERLINE CURVE DATA (PC TO PT)

DELTA = 4°37'34"
 RADIUS = 9903.92'
 ARC LENGTH = 799.65'
 CHORD BEARING = N41°04'31"E
 CHORD DISTANCE = 799.43'

TRAVERSE LINE DATA

FROM POINT	TO POINT	DISTANCE	BEARING
UC5	UC6	184.00'	N69°03'03"E
UC6	UC7	483.86'	N36°04'39"E
UC7	UC8	897.13'	N45°35'14"E
UC8	UC9	794.16'	N40°03'56"E

LINE TABLE

LINE NO.	DISTANCE	BEARING
L7	125.97'	N38°45'44"E
L8	125.97'	N38°45'44"E
L9	125.97'	N38°45'44"E
L57	356.82'	N48°02'35"E
L58	540.86'	N43°58'02"E
L59	39.29'	N89°29'35"E
L60	39.38'	N89°29'35"E
L61	44.80'	N0°18'01"E
L62	44.97'	N0°18'01"E
L63	97.39'	N35°18'40"E

LEGEND

- SET 5/8" X 30" IRON REBAR WITH YELLOW PLASTIC CAP MARKED "UCP.WD...LS2627"
- ▲ SET RR SPIKE WITH PUNCH MARK AND STAMPED "LS2627"
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- FOUND 3-1/2" BRASS CAP ON 2-1/4" O.D. G.I.P. SET BY SCHERLER, BLM, 1976
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- EDGE OF ROAD
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- 1/4 SECTION LINE

SURVEY RECORDS

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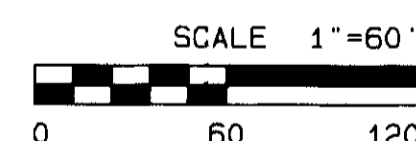
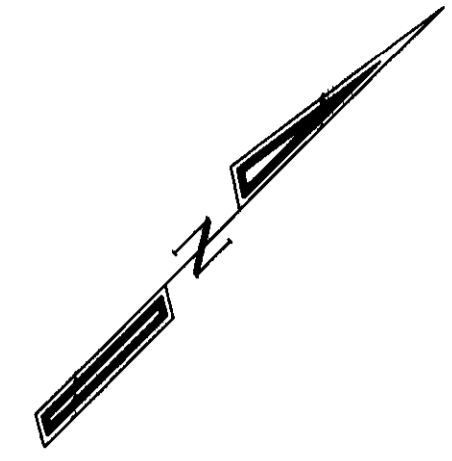
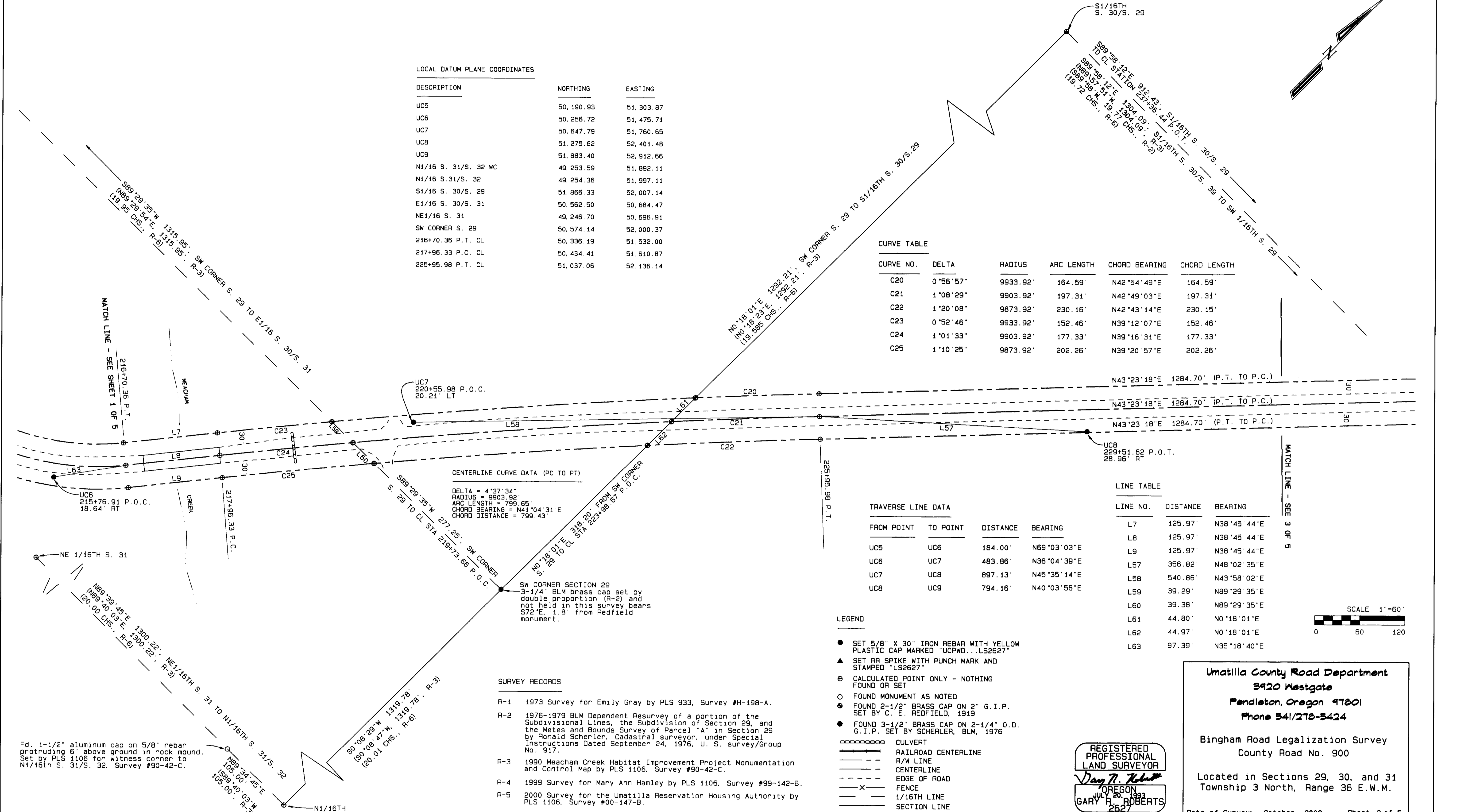
Bingham Road Legalization Survey
 County Road No. 900

Located in Sections 29, 30, and 31
 Township 3 North, Range 36 E.W.M.

Date of Survey: October, 2002 Sheet 2 of 5

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Fd. 1-1/2" aluminum cap on 5/8" rebar protruding 6" above ground in rock mound. Set by PLS 1106 for witness corner to N1/16th S. 31/S. 32, Survey #90-42-C.

SW CORNER SECTION 29
 3-1/4" BLM brass cap set by double proportion (R-2) and not held in this survey bears S72°E, 1.8' from Redfield monument.

BINGHAM ROAD LEGALIZATION SURVEY

LOCAL DATUM PLANE COORDINATES		
DESCRIPTION	NORTHING	EASTING
UC8	51,275.62	52,401.49
UC9	51,883.40	52,912.66
UC10	52,374.24	53,421.21
UC11	52,774.04	53,587.22
S1/16TH S. 30/S. 29	51,866.33	52,007.14
SW 1/16TH S. 29	51,865.65	53,311.23
238+80.67 P.C. CL	51,970.67	53,018.64
240+80.67 P.T. CL	52,115.18	53,156.90
242+96.65 P.C. CL	52,270.34	53,307.15
250+10.08 P.T. CL	52,910.73	53,585.16

CENTERLINE CURVE DATA (PC TO PT)
 DELTA = 41°13'22"
 RADIUS = 991.60'
 ARC LENGTH = 713.43'
 CHORD BEARING = N23°28'01"E
 CHORD DISTANCE = 698.14'

CENTERLINE CURVE DATA
 DELTA = 0°41'24"
 RADIUS = 16,607.27'
 ARC LENGTH = 200.00'
 CHORD BEARING = N43°44'00"E
 CHORD DISTANCE = 200.00'

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LINE TABLE

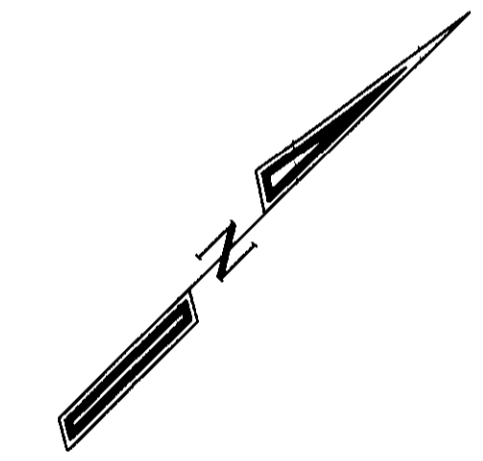
LINE NO.	DISTANCE	BEARING
L49	136.71'	N0°51'43"W
L50	146.53'	N47°52'14"E
L51	23.43'	N44°04'42"E
L52	137.30'	N50°31'52"E
L53	41.26'	S89°58'12"E
L54	41.26'	S89°58'12"E
L55	44.41'	N0°11'01"E
L56	43.31'	N0°11'01"E

TRAVERSE LINE DATA

FROM POINT	TO POINT	DISTANCE	BEARING
UC8	UC9	794.16'	N40°03'56"E
UC9	UC10	706.80'	N46°00'54"E
UC10	UC11	432.89'	N22°32'58"E

CURVE TABLE

CURVE NO.	DELTA	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
C17	21°51'51" (21°56')	1021.60' 1019.24'	389.84' 5,912 CHS., R-2)	N13°47'15"E	387.48'
C18	2°22'17"	961.60'	39.80'	N42°53'34"E	39.79'
C19	0°26'59"	991.60'	7.78'	N43°51'14"E	7.78'



SCALE 1"=60'
 0 60 120

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 GARY R. ROBERTS
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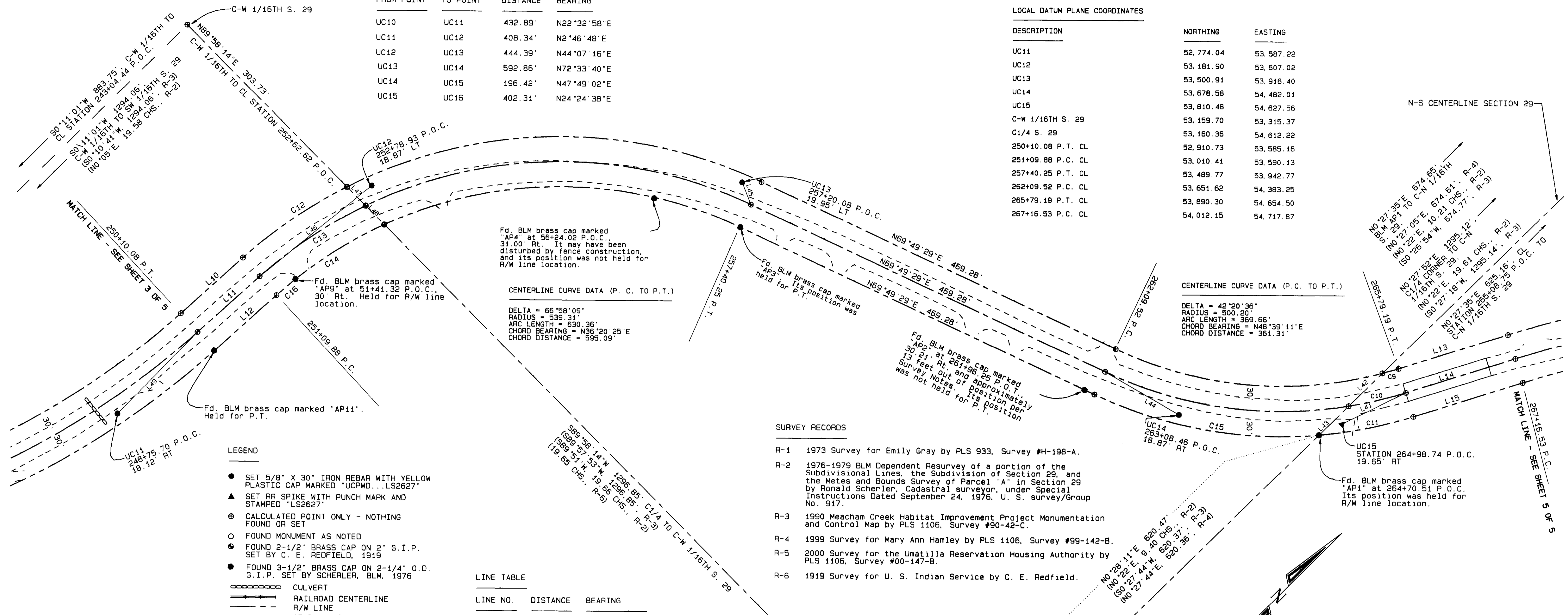
BINGHAM ROAD LEGALIZATION SURVEY

TRAVERSE LINE DATA

FROM POINT	TO POINT	DISTANCE	BEARING
UC10	UC11	432.89'	N22°32'58"E
UC11	UC12	408.34'	N2°46'48"E
UC12	UC13	444.39'	N44°07'16"E
UC13	UC14	592.86'	N72°33'40"E
UC14	UC15	196.42'	N47°49'02"E
UC15	UC16	402.31'	N24°24'38"E

LOCAL DATUM PLANE COORDINATES

DESCRIPTION	NORTHING	EASTING
UC11	52,774.04	53,587.22
UC12	53,181.90	53,607.02
UC13	53,500.91	53,916.40
UC14	53,678.58	54,482.01
UC15	53,810.48	54,627.56
C-W 1/16TH S. 29	53,159.70	53,315.37
C1/4 S. 29	53,160.36	54,612.22
250+10.08 P.T. CL	52,910.73	53,585.16
251+09.88 P.C. CL	53,010.41	53,590.13
257+40.25 P.T. CL	53,489.77	53,942.77
262+09.52 P.C. CL	53,651.62	54,383.25
265+79.19 P.T. CL	53,890.30	54,654.50
267+16.53 P.C. CL	54,012.15	54,717.87



Fd. BLM brass cap marked "AP4" at 55+24.02 P.O.C., 31.00' Rt. It may have been disturbed by fence construction, and its position was not held for R/W line location.

Fd. BLM brass cap marked "AP9" at 51+41.32 P.O.C., 30' Rt. Held for R/W line location.

CENTERLINE CURVE DATA (P.C. TO P.T.)
 DELTA = 66°58'09"
 RADIUS = 539.31'
 ARC LENGTH = 630.36'
 CHORD BEARING = N36°20'25"E
 CHORD DISTANCE = 595.09'

CENTERLINE CURVE DATA (P.C. TO P.T.)
 DELTA = 42°20'36"
 RADIUS = 500.20'
 ARC LENGTH = 369.66'
 CHORD BEARING = N48°39'11"E
 CHORD DISTANCE = 361.31'

Fd. BLM brass cap marked "AP2" at 261+06.25 P.O.T., 13 feet out of position per Survey Notes. Its position was not held for P.T.

Fd. BLM brass cap marked "AP1" at 264+70.51 P.O.C. Its position was held for R/W line location.

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 - FOUND 3-1/2" BRASS CAP ON 2-1/4" O.D. G.I.P. SET BY SCHERLER, BLM, 1976
- CULVERT**
- ===== RAILROAD CENTERLINE
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 - 1/16TH LINE
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LINE TABLE

LINE NO.	DISTANCE	BEARING
L10	99.80'	N2°51'20"E
L11	99.80'	N2°51'20"E
L12	99.80' (1.450 CHS.)	N2°51'20"E S2°42'W
L13	137.34'	N27°28'53"E
L14	137.34'	N27°28'53"E
L15	137.34'	N27°28'53"E
L41	84.25'	N18°38'49"E
L42	56.09'	N0°27'35"E
L43	49.49'	N0°27'35"E
L44	102.37'	N74°43'37"E
L45	28.63'	S67°05'33"E
L46	172.31'	N5°37'29"E
L47	31.65'	N89°58'14"E
L48	31.86'	N89°58'14"E
L49	136.71'	N0°51'43"W

CURVE TABLE

CURVE NO.	DELTA	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
C9	2°28'00"	470.20'	20.24'	N28°42'56"E	20.24'
C10	8°04'06"	500.20'	70.44'	N31°30'57"E	70.38'
C11	12°26'56"	530.20'	115.20'	N33°42'21"E	114.97'
C12	15°10'59"	569.31'	150.86'	N10°26'50"E	150.42'
C13	16°13'34"	539.31'	152.73'	N10°58'07"E	152.22'
C14	17°23'59"	509.31'	154.67'	N11°33'20"E	154.08'
C15	29°53'40" (29°54')	530.20' 530'	276.63' 4.191 CHS.,	N54°52'39"E R-2)	29.69'
C16	3°20'25" (3°38')	509.31' 512.05'	29.69' 0.492 CHS.,	N4°30'52"E R-2)	273.51'

REGISTERED PROFESSIONAL LAND SURVEYOR
 Gary R. Roberts
 OREGON
 JUL 20 1993
 GARY R. ROBERTS
 2627
 RENEWS 12/31/2002

Umatilla County Road Department
 3920 Westgate
 Pendleton, Oregon 97801
 Phone 541/278-5424

Bingham Road Legalization Survey
 County Road No. 900

Located in Sections 29, 30, and 31
 Township 3 North, Range 36 E.W.M.

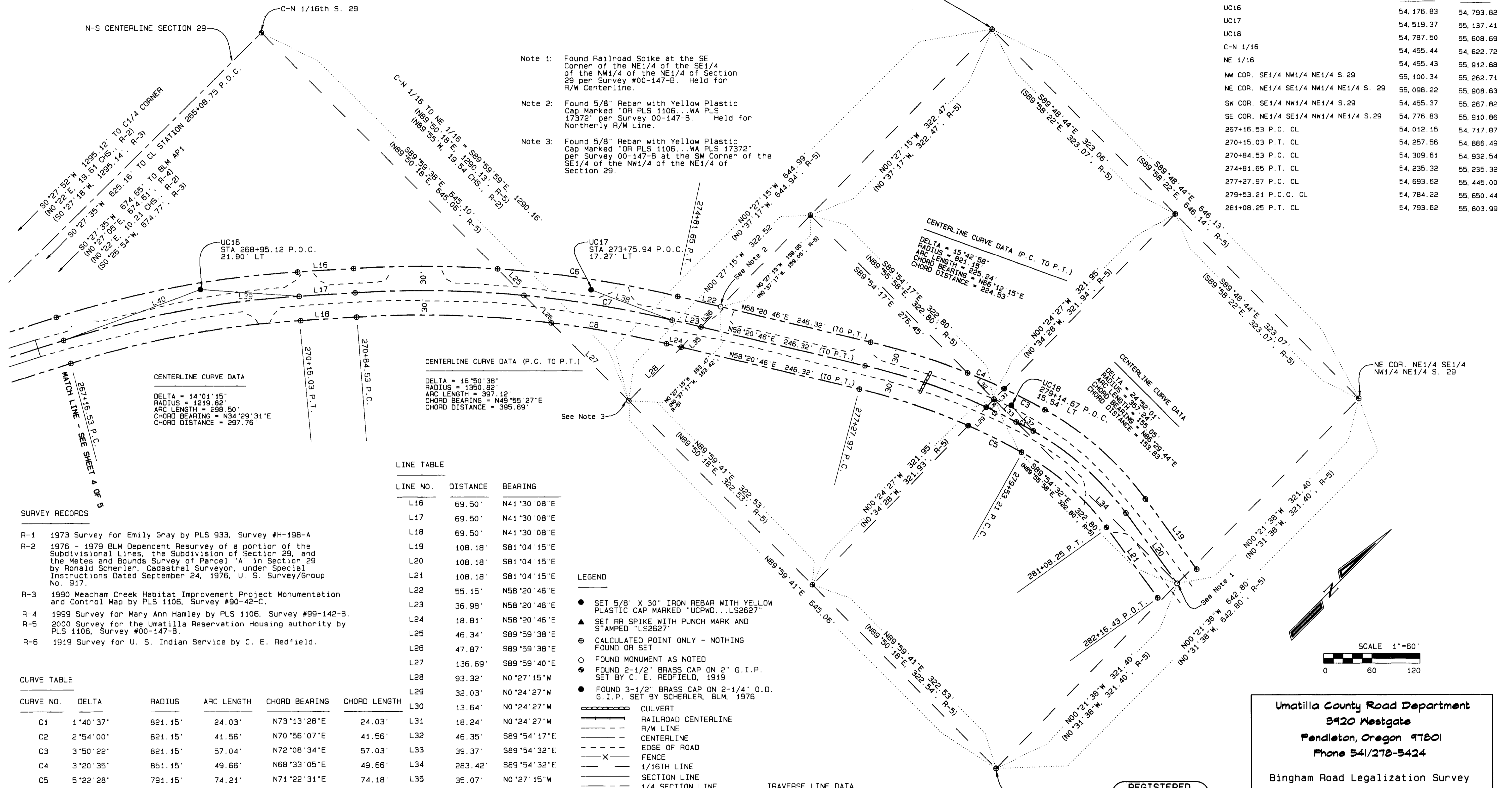
Date of Survey: October, 2002 Sheet 4 of 5

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 Umatilla County Surveyor
 Date 10-02
 Rec'd By KR
 No. 02-252-P

BINGHAM ROAD LEGALIZATION SURVEY

LOCAL DATUM PLANE COORDINATES

DESCRIPTION	NORTHING	EASTING
UC16	54,176.83	54,793.82
UC17	54,519.37	55,137.41
UC18	54,787.50	55,608.69
C-N 1/16	54,455.44	54,622.72
NE 1/16	54,455.43	55,912.88
NW COR. SE1/4 NW1/4 NE1/4 S. 29	55,100.34	55,262.71
NE COR. NE1/4 SE1/4 NW1/4 NE1/4 S. 29	55,098.22	55,908.63
SW COR. SE1/4 NW1/4 NE1/4 S. 29	54,455.37	55,267.82
SE COR. NE1/4 SE1/4 NW1/4 NE1/4 S. 29	54,776.83	55,910.86
267+16.53 P.C. CL	54,012.15	54,717.87
270+15.03 P.T. CL	54,257.56	54,886.49
270+84.53 P.C. CL	54,309.61	54,932.54
274+81.65 P.T. CL	54,235.32	55,235.32
277+27.97 P.C. CL	54,693.62	55,445.00
279+53.21 P.C.C. CL	54,784.22	55,650.44
281+08.25 P.T. CL	54,793.62	55,803.99



Note 1: Found Railroad Spike at the SE Corner of the NE1/4 of the SE1/4 of the NW1/4 of the NE1/4 of Section 29 per Survey #00-147-B. Held for R/W Centerline.

Note 2: Found 5/8" Rebar with Yellow Plastic Cap Marked "OR PLS 1106, WA PLS 17372" per Survey 00-147-B. Held for Northerly R/W Line.

Note 3: Found 5/8" Rebar with Yellow Plastic Cap Marked "OR PLS 1106, WA PLS 17372" per Survey 00-147-B at the SW Corner of the SE1/4 of the NW1/4 of the NE1/4 of Section 29.

CENTERLINE CURVE DATA (P.C. TO P.T.)

DELTA	= 14°01'15"
RADIUS	= 1219.82'
ARC LENGTH	= 298.50'
CHORD BEARING	= N34°29'31"E
CHORD DISTANCE	= 297.76'

CENTERLINE CURVE DATA (P.C. TO P.T.)

DELTA	= 15°50'38"
RADIUS	= 1350.82'
ARC LENGTH	= 397.12'
CHORD BEARING	= N49°55'27"E
CHORD DISTANCE	= 385.69'

CENTERLINE CURVE DATA (P.C. TO P.T.)

DELTA	= 15°42'58"
RADIUS	= 821.59'
ARC LENGTH	= 235.24'
CHORD BEARING	= N68°12'15"E
CHORD DISTANCE	= 224.53'

CENTERLINE CURVE DATA (P.C. TO P.T.)

DELTA	= 24°39'01"
RADIUS	= 1575.25'
ARC LENGTH	= 155.05'
CHORD BEARING	= N68°28'44"E
CHORD DISTANCE	= 153.93'

LINE TABLE

LINE NO.	DISTANCE	BEARING
L16	69.50'	N41°30'08"E
L17	69.50'	N41°30'08"E
L18	69.50'	N41°30'08"E
L19	108.18'	S81°04'15"E
L20	108.18'	S81°04'15"E
L21	108.18'	S81°04'15"E
L22	55.15'	N58°20'46"E
L23	36.98'	N58°20'46"E
L24	18.81'	N58°20'46"E
L25	46.34'	S89°59'38"E
L26	47.87'	S89°59'38"E
L27	136.69'	S89°59'40"E
L28	93.32'	N0°27'15"W
L29	32.03'	N0°24'27"W
L30	13.64'	N0°24'27"W
L31	18.24'	N0°24'27"W
L32	46.35'	S89°54'17"E
L33	39.37'	S89°54'32"E
L34	283.42'	S89°54'32"E
L35	35.07'	N0°27'15"W
L36	35.07'	N0°27'15"W
L37	44.88'	S85°30'31"E
L38	107.75'	N65°19'15"E
L39	122.90'	N48°56'11"E
L40	181.35'	N24°45'32"E

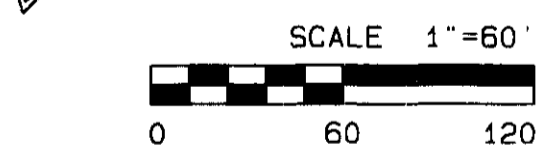
LEGEND

- SET 5/8" X 30" IRON REBAR WITH YELLOW PLASTIC CAP MARKED "UCPWD...LS2627"
- ▲ SET RR SPIKE WITH PUNCH MARK AND STAMPED "LS2627"
- ⊕ CALCULATED POINT ONLY - NOTHING FOUND OR SET
- FOUND MONUMENT AS NOTED
- FOUND 2-1/2" BRASS CAP ON 2" G.I.P. SET BY C. E. REDFIELD, 1919
- FOUND 3-1/2" BRASS CAP ON 2-1/4" O.D. G.I.P. SET BY SCHERLER, BLM, 1976
- ==== CULVERT
- RAILROAD CENTERLINE
- R/W LINE
- CENTERLINE
- EDGE OF ROAD
- X- FENCE
- 1/16TH LINE
- SECTION LINE
- 1/4 SECTION LINE

TRAVERSE LINE DATA

FROM POINT	TO POINT	DISTANCE	BEARING
UC15	UC16	402.31'	N24°24'38"E
UC16	UC17	485.17'	N45°05'16"E
UC17	UC18	542.21'	N60°21'45"E
UC18	282+16.43 P.O.T. CL	302.95'	S87°58'41"E

REGISTERED PROFESSIONAL LAND SURVEYOR
 GARY R. ROBERTS
 JULY 20, 1982
 RENEWS 12/31/2002



SURVEY RECORDS

- R-1 1973 Survey for Emily Gray by PLS 933, Survey #H-198-A
- R-2 1976 - 1979 BLM Dependent Resurvey of a portion of the Subdivisional Lines, the Subdivision of Section 29, and the Metes and Bounds Survey of Parcel "A" in Section 29 by Ronald Scherler, Cadastral Surveyor, under Special Instructions Dated September 24, 1976, U. S. Survey/Group No. 917.
- R-3 1990 Meacham Creek Habitat Improvement Project Monumentation and Control Map by PLS 1106, Survey #90-42-C.
- R-4 1999 Survey for Mary Ann Hamley by PLS 1106, Survey #99-142-B.
- R-5 2000 Survey for the Umatilla Reservation Housing authority by PLS 1106, Survey #00-147-B.
- R-6 1919 Survey for U. S. Indian Service by C. E. Redfield.

CURVE TABLE

CURVE NO.	DELTA	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
C1	1°40'37"	821.15'	24.03'	N73°13'28"E	24.03'
C2	2°54'00"	821.15'	41.56'	N70°56'07"E	41.56'
C3	3°50'22"	821.15'	57.04'	N72°08'34"E	57.03'
C4	3°20'35"	851.15'	49.66'	N68°33'05"E	49.66'
C5	5°22'28"	791.15'	74.21'	N71°22'31"E	74.18'
C6	9°25'22"	1380.82'	227.09'	N53°38'05"E	226.83'
C7	7°56'28"	1350.82'	187.22'	N54°22'32"E	187.07'
C8	6°20'27"	1320.82'	146.17'	N55°10'32"E	146.10'

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