

NE¹/₄ & SE¹/₄ of Sec. 6 & NE¹/₄ of 7, T.1N. R.41E. W.M.

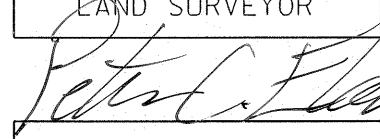
NARRATIVE

PURPOSE

This survey shows the final monumentation for a network of control points which reference the Centerline (CL) and new and previously existing Right-of-Way (R/W) of the Wallowa Lake Highway (State Hwy. 82) for the completed Minam Viaduct reconstruction project by the Oregon Department of Transportation (ODOT). This survey perpetuates previous and still existing R/W as shown on ODOT Drawing No. 10B-3-1 (1992) and Union Co. Survey Nos. 047-1995 and 028-2007; and establishes newly acquired R/W as shown on ODOT Drawing No. 11B-4-6 (2009). This survey complies with ORS Chapter 209, Section 155, being the post-project map of survey with a network of control points on the same coordinate basis as the above said R/W surveys and particularly with Union Co. Survey No. 028-2007, being the retracement and map of survey filed prior to said construction.

HISTORY

ODOT Drawing No. 10B-3-1 shows the results of an ODOT survey which monuments and more clearly defines the R/W as shown previously on Oregon State Highway Division Drawing No. 5B-29-3, Part 2 of 2 of highway section Cricket Flat to Minam (townsite), dated August 1940, and revised September 1981. The basis of bearing and coordinates established by above said ODOT survey are perpetuated by the subsequent surveys. Co. Survey No. 047-1995 was conducted to further monument the R/W for the section of highway known as the Minam Grade. A portion of this survey was retraced and recovered prior to the viaduct project by Co. Survey No. 028-2007, and augmented control points established based on said retracement. ODOT Drawing No. 11B-4-6, dated July 2009, shows the new permanent easement for R/W purposes acquired for the Minam Viaduct reconstruction project. The survey shown hereon shows the newly acquired R/W and holds the control point positions and R/W resolution as shown by Co. Survey No. 028-2007 but also shows a further recovery of Co. Survey No. 047-1995 and augments the network of both surveys with intervisible control points where the previous control points were destroyed. The further recovery of the points from Co. Survey No. 047-1995 consisted mostly of the traverse points set by OTAK. These points are not given any identifier on the said survey except coordinates. I renamed them with the prefix OTAK and the numbering starting from the top of the grade.

REGISTERED PROFESSIONAL LAND SURVEYOR

 OREGON
 JULY 13, 1999
 PETER C. ELDER
 51277
 RENEWAL DATE: DEC. 2013

REFERENCES

OREGON DEPT. OF TRANSPORTATION (ODOT OR STATE HIGHWAY DEPT. OR DIVISION) DRAWINGS:

- M1. DWG. NO. 11B-04-0006, DATED 2009
- M2. DWG. NO. 10B-03-0001, DATED 1997
- M3. DWG. NO. 8B-06-0012, DATED 1957
- M4. DWG. NO. 5B-29-0003, DATED 1940

UNION COUNTY SURVEYOR RECORDS:

- S1. HORIZONTAL CONTROL, RECOVERY & RETRACEMENT MAP, BY ANDERSON PERRY & ASSOC., SURVEY NO. 028-2007.
- S2. MINOR PARTITION PLAT NO. 20070020T, BY GREGORY T. BLACKMAN, PLAT RECORDS CABINET NO. C903, C904.
- S3. MONUMENTATION SURVEY, BY OTAK INC., FOR ODOT, SURVEY NO. 047-1995.
- S4. MAP OF SURVEY, BY GRIFFITH, SURVEY NO. 002-1994

UNION COUNTY DEED DOCUMENTS:

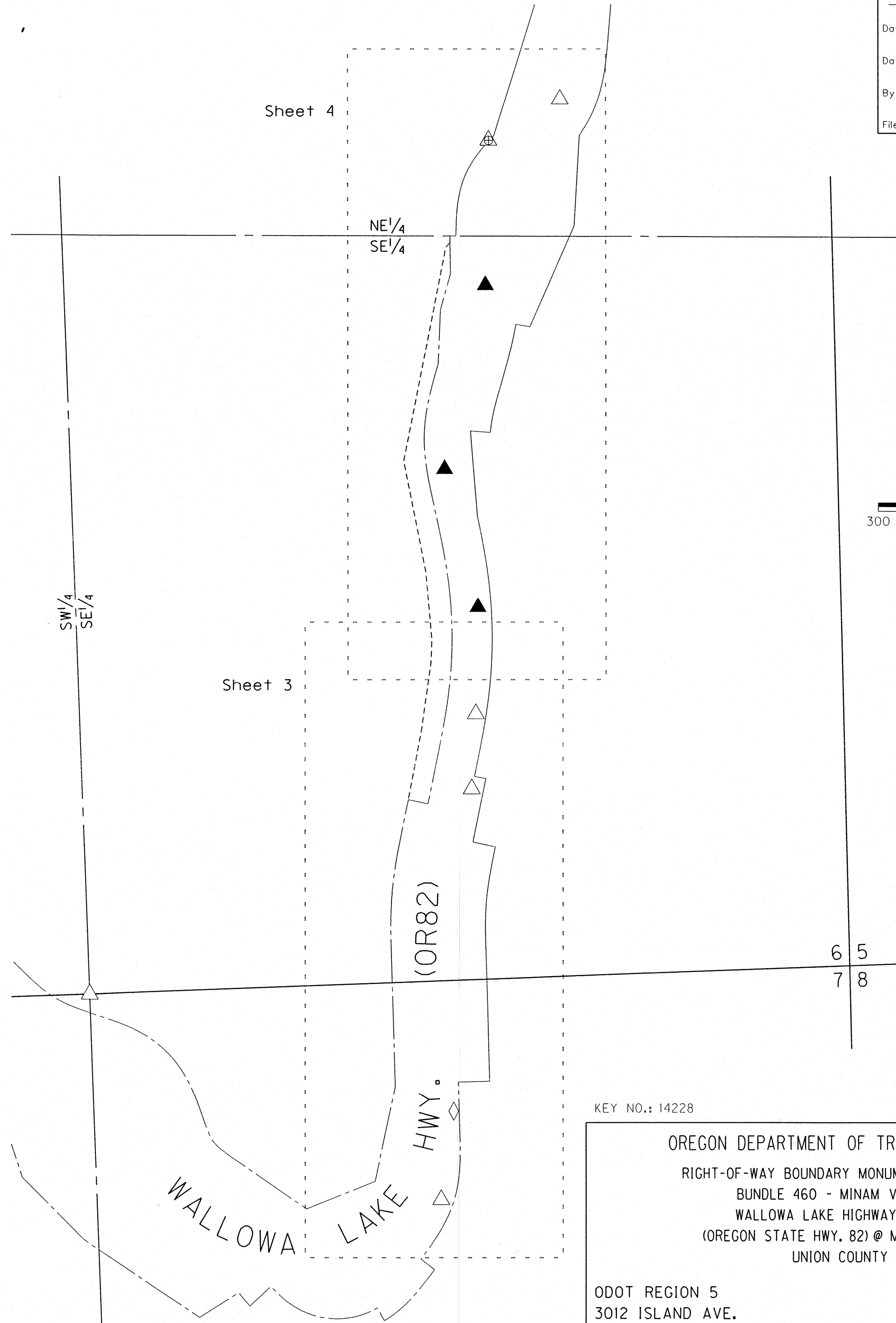
- D1. DOCUMENT NO. 20093707, ODOT FILE NO. 7461001
- D2. DOCUMENT NO. 970752
- D3. DOCUMENT NO. 148746
- D4. DOCUMENT NO. 104565

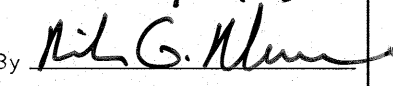
EQUIPMENT USED

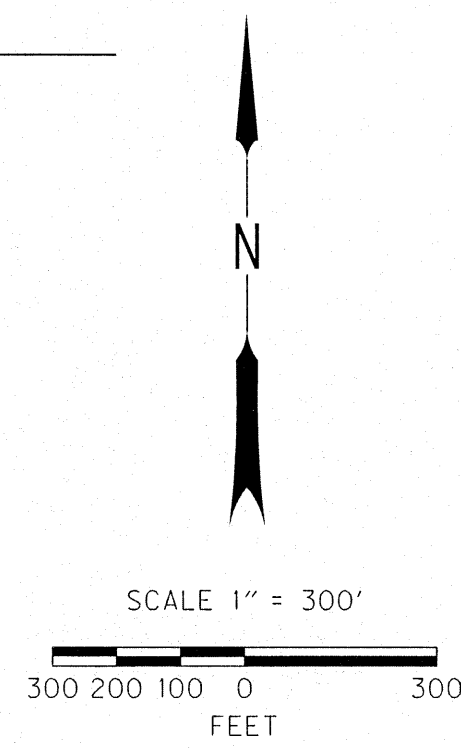
THE GPS PORTION OF THIS SURVEY WAS COMPLETED USING TWO LEICA SYSTEM 1200 DUAL FREQUENCY RECEIVERS, MODEL GRX 1230, ANTENNA MODEL AX 1202. THE TOTAL STATION USED WAS A LEICA 1200 WITH LEICA DATA COLLECTION SOFTWARE.

LEGEND

- ▲ SET NETWORK POINT
- △ FOUND NETWORK POINT
- ◇ FOUND STRATEGIC POINT
- ⊠ FOUND BENCHMARK & NETWORK POINT
- NEW EASEMENT BNDRY.
- RIGHT-OF-WAY BNDRY.
- RIGHT-OF-WAY BNDRY.



UNION COUNTY SURVEYOR
 Date Received 10/11/13
 Date Filed 10/12/13
 By 
 File No. 040-2013



KEY NO.: 14228

ODOT REGION 5
 3012 ISLAND AVE.
 LA GRANDE, OR 97850

OREGON DEPARTMENT OF TRANSPORTATION
 RIGHT-OF-WAY BOUNDARY MONUMENTATION MAP
 BUNDLE 460 - MINAM VIADUCT
 WALLOWA LAKE HIGHWAY NO. 10
 (OREGON STATE HWY. 82) @ MILEPOINT 31
 UNION COUNTY

OCTOBER, 2013
 SCALE: 1 in. = 300 ft.
 Sheet 1 of 4

NE¹/₄ & SE¹/₄ of Sec. 6 & NE¹/₄ of 7, T.1N. R.41E. W.M.

UNION COUNTY
SURVEYOR
Date Received 10/11/13
Date Filed 10/12/13
By M.G. Min
File No. 040-2013

NETWORK POINT COORDINATE TABLE

PNT. NO.	LDP NORTHING	LDP EASTING	DESCRIPTION
1-4-S67	712734.15	2707838.72	FD. 2" I.P. WITH 2-1/2" ALUM. CAP MKD. "BAGETT-GRIFFITH AND ASSOC. 1/4 S6/S7 1994 OPLS 644" (S4)
100 (R84RESET)	715698.70	2709231.79	FD. 3-1/2" BR. CAP IN CONC. MKD. "R 84 RESET 1993", ON LT. AT WIDE TURNOUT NEAR SMALL DRAINAGE & LARGE PINE (SET BY N.G.S. IN 1993)
105 (OTAK11)	713700.34	2709186.03	FD. 5/8" IRON ROD W/ RED PLASTIC CAP MKD. "OTAK CONTROL" (S3)
106	713440.89	2709172.38	FD. 1-1/2" ALUM. CAP MKD. "APA OR2537 WA35140, NET 6" (S1)
108	712326.46	2709109.01	FD. 1/2" IRON ROD W/ RED PLASTIC CAP MKD. "APA CONTROL", BK. OF PROJECT STATIONING, IN WIDE AREA BEHIND GRD. RAIL. (S1)
113	715195.04	2709220.56	SET 5/8" DIAM. X 30" IRON ROD W/ 1-1/2" DIAM. ALUM. CAP MKD. "ODOT 113 2013", NEAR POSITION OF DESTROYED PT. 101 ON GRAVEL BEHIND GRD. RAIL RT.
114	714070.67	2709194.31	SET 5/8" DIAM. X 30" IRON ROD W/ 1-1/2" DIAM. ALUM. CAP MKD. "ODOT 114 2013", ON RT. AT N. END OF WALL REPLACING OLD VIADUCT, NEAR PT. 109 BEHIND GRD. RAIL
116	714553.13	2709078.11	SET 5/8" DIAM. X 30" IRON ROD W/ 1-1/2" DIAM. ALUM. CAP MKD. "ODOT 116 2013", NEAR GALV. STEEL POST 1' E'LY & ROCK COLLAR, IN GRAVEL SHLDR. LT., E.P. IS 19' E'LY, STEEP CLIFF IS 7' W'LY
OTAK10	712018.36	2709065.36	FD. 5/8" IRON ROD W/ RED PLASTIC CAP MKD. "OTAK CONTROL", PT. IN GRAVEL SHLD. AT WIDE AREA (S3)
OTAK14	715841.91	2709480.50	FD. 5/8" IRON ROD W/ RED PLASTIC CAP MKD. "OTAK CONTROL", PT. IN GRAVEL SHLD. AT WIDE AREA (S3)

BASIS OF BEARING

THE BEARINGS USED IN THIS SURVEY ARE FROM THE OREGON COORDINATE SYSTEM OF 1927, NORTH ZONE. THE SCHEMATIC DRAWING SHOWS A POINT USED ON ODOT DRAWING NO. 10B-3-1 (0+00.00 P.O.T. AH., MARKED BY A BRASS DISK) AND THE NEAREST ESTABLISHED PUBLIC LAND CORNER TO THE PROJECT. THE QUARTER SECTION CORNER COMMON TO SECTIONS 6 AND 7, T.1N. R.41E., SAID CORNER NOT BEING REESTABLISHED UNTIL 1994. THE CORNER TO SECTIONS 5, 6, 7 AND 8 WAS NOT TIED THIS SURVEY AND LIES ACROSS THE MINAM RIVER CANYON FROM THE HIGHWAY BUT THE RECORD POSITION FROM ODOT DRAWING NO. 10B-3-1 IS SHOWN HEREON.

BASIS OF COORDINATES

THIS SURVEY UTILIZES A LOCAL DATUM PLANE (LDP) WHICH IS RELATIVE TO THE OREGON COORDINATE SYSTEM OF 1927, NORTH ZONE, WITH RESPECT TO THE LOCAL LATITUDE AND GROUND ELEVATION. THE LDP COORDINATES DEFINE TRUE GROUND DISTANCES. TO CONVERT THE LDP COORDINATES TO OREGON COORDINATE SYSTEM OF 1927, NORTH ZONE, MULTIPLY THE COORDINATES BY 0.9997810.

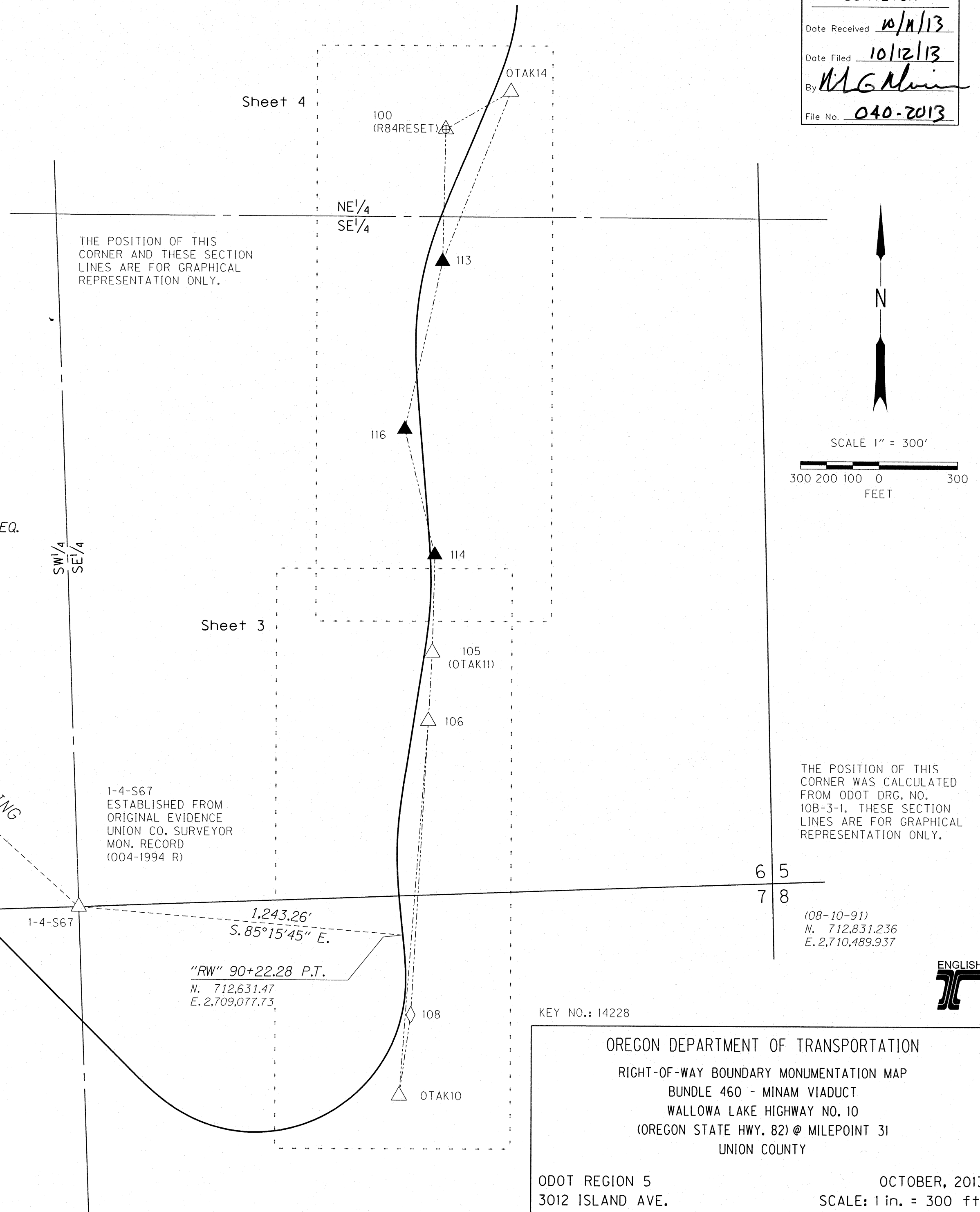
"Extg." 1744+80.86 P.O.S.T. Bk. = EQ.
"RW" 0+00.00 P.O.T. Ah.
N. 717,168.122
E. 2,702,821.116
Fd. Brass Disk (Rec. P.O.S.T.)
(05-30-90)

BASIS OF BEARING
N. 48°32'01" W.
6,696.00'

LEGEND

- ▲ SET NETWORK POINT
- △ FOUND NETWORK POINT
- ◇ FOUND STRATEGIC POINT
- ⊠ FOUND BENCHMARK & NETWORK POINT
- OBSERVATION LINES
- - - BEARING LINE
- CENTERLINE
- [**] = SEE SHT. 1 REFERENCES

REGISTERED PROFESSIONAL LAND SURVEYOR
Peter C. Elder
OREGON
JULY 13, 1999
PETER C. ELDER
51277
RENEWAL DATE: DEC. 2013



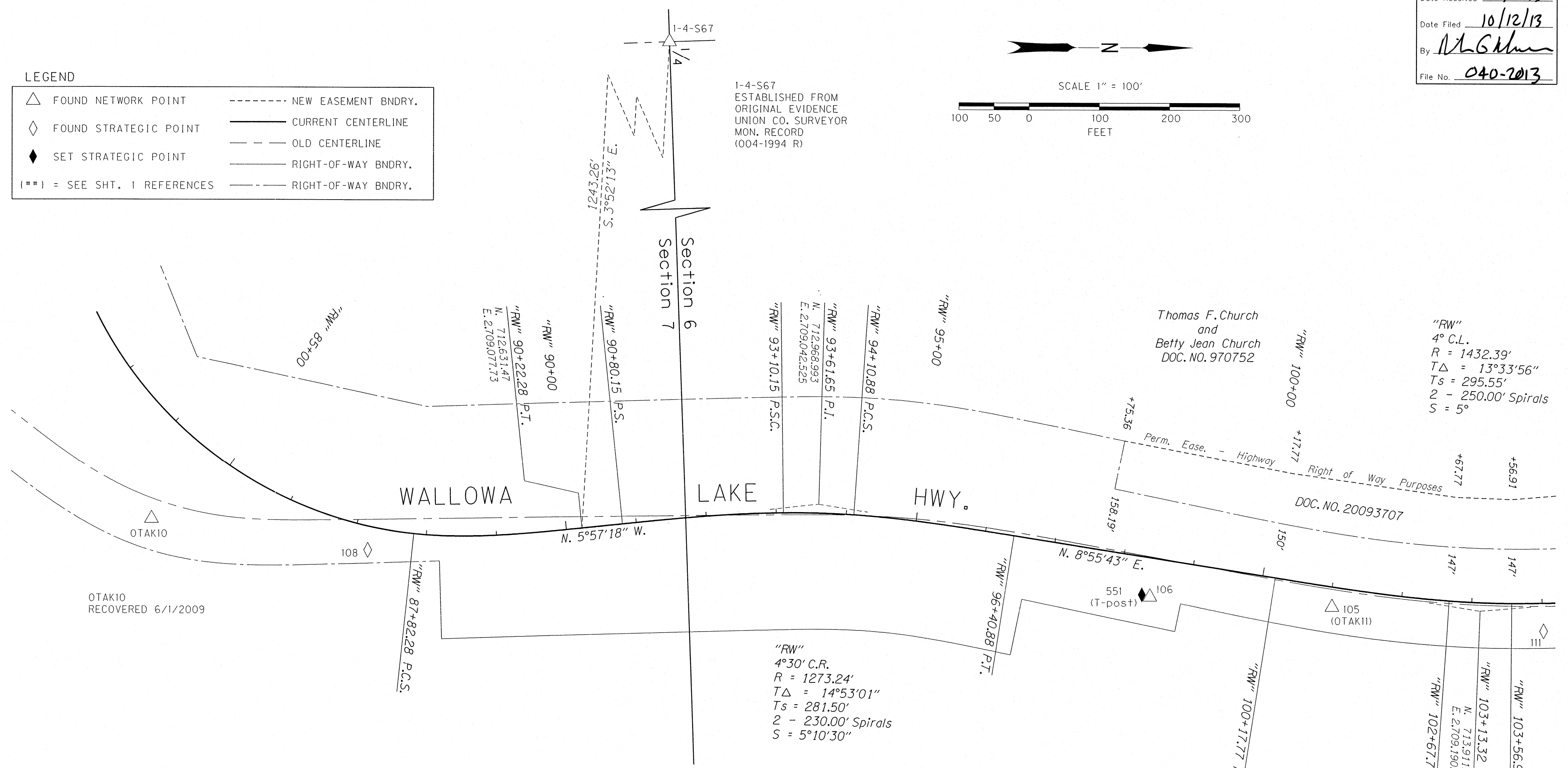
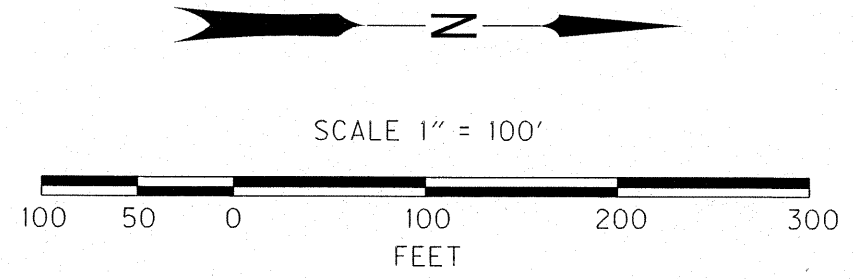
SE¹/₄ of Sec. 6 & NE¹/₄ of 7, T.1N. R.41E. W.M.

UNION COUNTY
SURVEYOR
Date Received 10/11/13
Date Filed 10/12/13
By [Signature]
File No. 040-2013

LEGEND

△ FOUND NETWORK POINT	----- NEW EASEMENT BNDRY.
◇ FOUND STRATEGIC POINT	———— CURRENT CENTERLINE
◆ SET STRATEGIC POINT	----- OLD CENTERLINE
(**) = SEE SHT. 1 REFERENCES	———— RIGHT-OF-WAY BNDRY.
	----- RIGHT-OF-WAY BNDRY.

1-4-S67
ESTABLISHED FROM
ORIGINAL EVIDENCE
UNION CO. SURVEYOR
MON. RECORD
(004-1994 R)



SET MONUMENT LIST

PNT. NO.	LDP NORTHING	LDP EASTING	"RW" STATION	OFFSET	DESCRIPTION
551	713429.48	2709169.65	98+34.01	54.12' RT	SET T-POST, 30" LONG. UP 3", W/ PUNCHMARK & ROCK COLLAR, AT WIDE AREA OUTSIDE GRD. RAIL, S. OF VIADUCT NEAR PT. 106

RECOVERED MONUMENT LIST

PNT. NO.	LDP NORTHING	LDP EASTING	"RW" STATION	OFFSET	DESCRIPTION
1-4-S67	712734.15	2707838.72	68+14.40	297.49' LT	FD. 2" I.P. WITH 2-1/2" ALUM. CAP MKD. "BAGETT-GRIFFITH AND ASSOC. 1/4 S6/S7 1994 OPLS 644" IS4I
105 (OTAKII)	713700.34	2709186.03	101+03.84	28.56' RT	FD. 5/8" IRON ROD W/ RED PLASTIC CAP MKD. "OTAK CONTROL" IS3I
106	713440.89	2709172.38	98+45.71	55.04' RT	FD. 1-1/2" ALUM. CAP MKD. "APA OR2537 WA35140, NET 6" IS1I
108	712326.46	2709109.01	87+22.79	33.15' RT	FD. 1/2" IRON ROD W/ RED PLASTIC CAP MKD. "APA CONTROL", BK. OF PROJECT STATIONING, IN WIDE AREA BEHIND GRD. RAIL. IS1I
111	714001.79	2709218.68	104+01.45	39.42' RT	FD. 1/2" IRON ROD W/ RED PLASTIC CAP MKD. "APA CONTROL", 20' E. OF VIADUCT ON ROCK OUTCROP IS1I
OTAKIO	712018.36	2709065.36	84+59.53	127.08' RT	FD. 5/8" IRON ROD W/ RED PLASTIC CAP MKD. "OTAK CONTROL", PT. IN GRAVEL SHLD. AT WIDE AREA IS3I

REGISTERED PROFESSIONAL LAND SURVEYOR
[Signature]
OREGON
JULY 13, 1999
PETER C. ELDER
51277
RENEWAL DATE: DEC.2013

KEY NO.: 14228

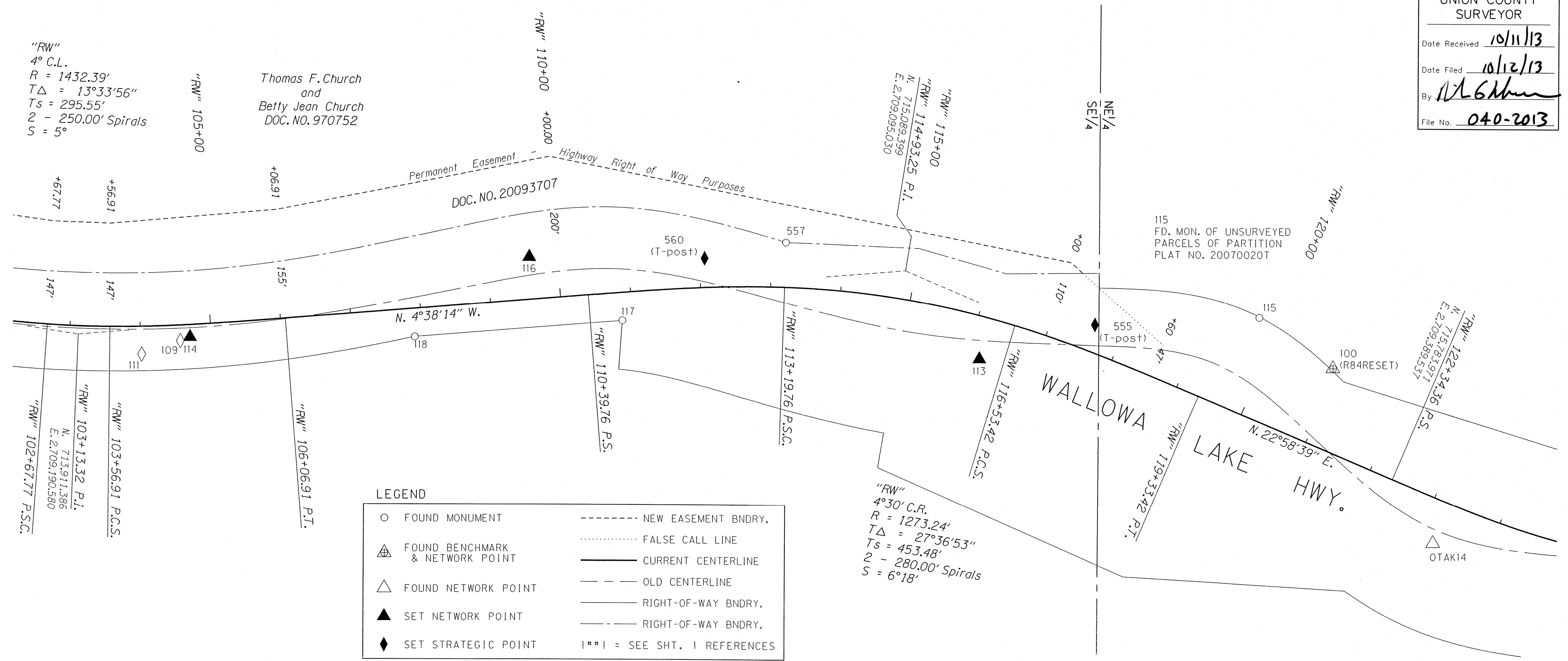
OREGON DEPARTMENT OF TRANSPORTATION
RIGHT-OF-WAY BOUNDARY MONUMENTATION MAP
BUNDLE 460 - MINAM VIADUCT
WALLOWA LAKE HIGHWAY NO. 10
(OREGON STATE HWY. 82) @ MILEPOINT 31
UNION COUNTY
ODOT REGION 5
3012 ISLAND AVE.
LA GRANDE, OR 97850
OCTOBER, 2013
SCALE: 1 in. = 100 ft.
Sheet 3 of 4

NE 1/4 & SE 1/4 of Sec. 6, T.1N. R.41E. W.M.

UNION COUNTY SURVEYOR
 Date Received 10/11/13
 Date Filed 10/12/13
 By *[Signature]*
 File No. 040-2013

"RW"
 4° C.L.
 R = 1432.39'
 TΔ = 13°33'56"
 Ts = 295.55'
 2 - 250.00' Spirals
 S = 5°

Thomas F. Church
 and
 Betty Jean Church
 DOC. NO. 970752

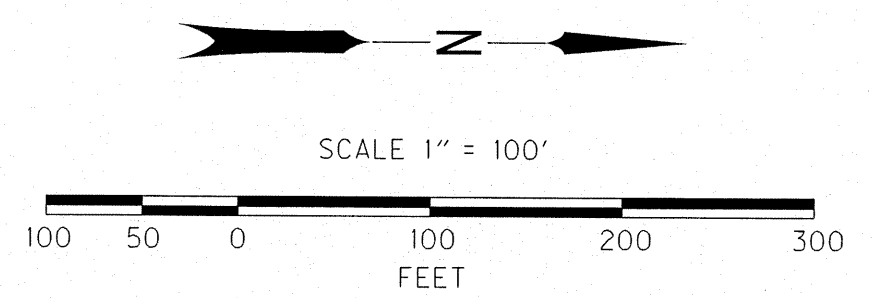


SET MONUMENT LIST

PNT. NO.	LDP NORTHING	LDP EASTING	"RW" STATION	OFFSET	DESCRIPTION
113	715195.04	2709220.56	116+17.28	60.18' RT	SET 5/8" DIAM. X 30" IRON ROD W/ 1-1/2" DIAM. ALUM. CAP MKD. "ODOT 113 2013", NEAR POSITION OF DESTROYED PT. 101 ON GRAVEL BEHIND GRD. RAIL RT.
114	714070.67	2709194.31	104+70.28	17.78' RT	SET 5/8" DIAM. X 30" IRON ROD W/ 1-1/2" DIAM. ALUM. CAP MKD. "ODOT 114 2013", ON RT. AT N. END OF WALL REPLACING OLD VIADUCT, NEAR PT. 109 BEHIND GRD. RAIL
116	714553.13	2709078.11	109+60.10	60.22' LT	SET 5/8" DIAM. X 30" IRON ROD W/ 1-1/2" DIAM. ALUM. CAP MKD. "ODOT 116 2013", NEAR GALV. STEEL POST 1'E'LY & ROCK COLLAR, IN GRAVEL SHLDR. LT., E.P. IS 19'E'LY, STEEP CLIFF IS 7' W'LY
555	715359.56	2709171.34	117+60.01	37.68' LT	SET T-POST, 36" LONG, DRIVEN 32" ON CUT SLOPE ABOVE GRAVEL 3', W/ PUNCHMARK & ROCK COLLAR
560	714802.88	2709079.21	112+07.34	41.17' LT	SET T-POST, 32" LONG, W/ PUNCHMARK, LT. ON STEEP SLOPE ON W. SIDE OF HWY ACROSS DITCH

RECOVERED MONUMENT LIST

PNT. NO.	LDP NORTHING	LDP EASTING	"RW" STATION	OFFSET	DESCRIPTION
100 (R84RESET)	715698.70	2709231.79	120+94.28	111.94' LT	FD. 3-1/2" BR. CAP IN CONC. MKD. "R 84 RESET 1993", ON LT. AT WIDE TURNOUT NEAR SMALL DRAINAGE & LARGE PINE (SET BY N.G.S. IN 1993)
109	714056.75	2709199.49	104+56.22	22.24' RT	FD. 1/2" IRON ROD W/ BLUE PLASTIC CAP MKD. "APA CONTROL", AT N. END OF VIADUCT (S1)
111	714001.79	2709218.68	104+01.45	39.42' RT	FD. 1/2" IRON ROD W/ RED PLASTIC CAP MKD. "APA CONTROL", 20' E. OF VIADUCT ON ROCK OUTCROP (S1)
115	715593.64	2709159.90	119+69.49	137.12' LT	FD. 1-1/2" PLASTIC CAP IN FENCE MKD. "BGB SURVEY MARKER", UP 3" ON 5/8" IRON ROD (S2)
117	714686.05	2709168.11	110+85.42	40.19' RT	FD. 2" ALUM. CAP MKD. "OTAK INC.", DOWN SLOPE 7', NEAR STEEL POST W/ SIGN 2' NW'LY MKD. "STA 110+85.34 AT 40.05 RT", W/ OFF-CENTER PUNCH (S3)
118	714390.63	2709192.02	107+88.92	40.18' RT	FD. 2" ALUM. CAP MKD. "OTAK INC.", DOWN SLOPE 7', NEAR STEEL POST W/ SIGN 2' NW'LY MKD. "STA 107+88.83 AT 40.02 RT" (S3)
557	714918.77	2709055.68	113+19.71	63.65' LT	FD. 2" ALUM. CAP MKD. "OTAK INC.", ON SLOPE AT R/W ANGLE PT. (S3)
OTAK14	715841.91	2709480.50	123+22.18	61.63' RT	FD. 5/8" IRON ROD W/ RED PLASTIC CAP MKD. "OTAK CONTROL", PT. IN GRAVEL SHLDR. AT WIDE AREA (S3)



REGISTERED PROFESSIONAL LAND SURVEYOR
[Signature]
 PETER C. ELDER
 OREGON JULY 13, 1999
 51277
 RENEWAL DATE: DEC.2013

KEY NO.: 14228
 OREGON DEPARTMENT OF TRANSPORTATION
 RIGHT-OF-WAY BOUNDARY MONUMENTATION MAP
 BUNDLE 460 - MINAM VIADUCT
 WALLOWA LAKE HIGHWAY NO. 10
 (OREGON STATE HWY. 82) @ MILEPOINT 31
 UNION COUNTY
 ODOT REGION 5
 3012 ISLAND AVE.
 LA GRANDE, OR 97850
 OCTOBER, 2013
 SCALE: 1 in. = 100 ft.
 Sheet 4 of 4