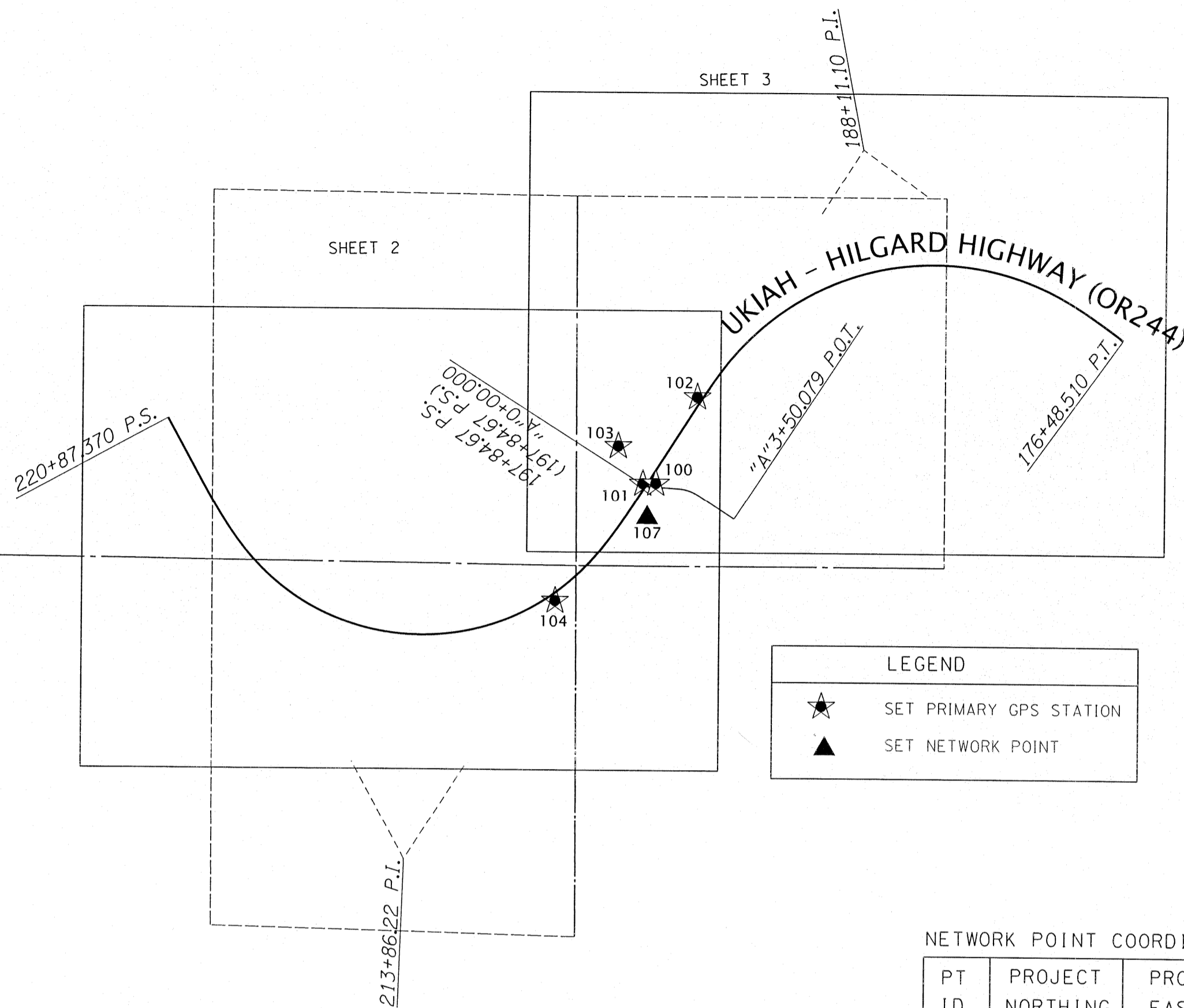


NE 1/4 SEC. 8, T. 4 S., R. 35 E., W.M.  
 SE 1/4 SEC. 8, T. 4 S., R. 35 E., W.M.  
 NW 1/4 SEC. 9, T. 4 S., R. 35 E., W.M.  
 SW 1/4 SEC. 9, T. 4 S., R. 35 E., W.M.



LEGEND	
★	SET PRIMARY GPS STATION
▲	SET NETWORK POINT

CONTROL NETWORK SCHEMATIC,  
 & SHEET LAYOUT  
 NOT TO SCALE

**SHEET INDEX**

- SHEET INDEX, CONTROL NETWORK SCHEMATIC, SHEET LAYOUT, CONTROL NARRATIVE, SURVEY NARRATIVE AND REFERENCES
- 3. SURVEY

**CONTROL NARRATIVE**

ODOT KEY NO: 19003  
 SURVEY DATUM:  
 HORIZONTAL - OREGON COORDINATE REFERENCE SYSTEM (OCRS) - PENDLETON - LA GRANDE ZONE  
 NAD 83(2011) EPOCH 2010  
 VERTICAL DATUM: NAVD88, CLOSED LEVEL LOOP RUN FROM ONLINE POSITIONING USER SERVICE (OPUS) DERIVED ELEVATION AT POINT 100

**HORIZONTAL CONTROL SURVEY**

PRIMARY CONTROL WAS ESTABLISHED ON THIS PROJECT BY USING GPS AND THE ONLINE POSITIONING USER SERVICE (OPUS) TO ESTABLISH A POSITION ON POINT 100. A SUBSEQUENT RTK GPS SURVEY WAS PERFORMED USING 100 AS A BASE POINT TO ESTABLISH POSITIONS ON CONTROL POINTS 101-104, 107, AND FOUND MONUMENTS 1000-1003. ALL POINTS WERE OCCUPIED WITH TWO SEPERATE SESSIONS WITH DIFFERENT SATELLITE GEOMETRY.

THE BASIS OF BEARINGS FOR THIS SURVEY ARE BASED UPON GPS OBSERVATIONS MEASURED USING THE OREGON COORDINATE REFERENCE SYSTEM, PENDLETON - LA GRANDE ZONE, NAD 83(2011) EPOCH 2010.

**NETWORK POINT COORDINATE TABLE**

PT ID	PROJECT NORTHING	PROJECT EASTING	ELEVATION	DATE	DESCRIPTION
100	54863.49	69935.86	3518.35	10/5/2016	SET 5/8" IRON ROD WITH RPC MARKED "ODOT CONTROL", FLUSH
101	54862.42	69889.00	3518.29	10/5/2016	SET 5/8" IRON ROD WITH RPC MARKED "ODOT CONTROL", DN 3"
102	55176.80	70083.79	3534.67	10/5/2016	SET 5/8" IRON ROD WITH RPC MARKED "ODOT CONTROL", FLUSH
103	54997.83	69799.60	3487.20	10/5/2016	SET 5/8" IRON ROD WITH RPC MARKED "ODOT CONTROL", FLUSH
104	54437.25	69575.79	3520.31	10/5/2016	SET 5/8" IRON ROD WITH RPC MARKED "ODOT CONTROL", UP 2"
107	54738.09	69905.95	3517.20	10/12/2016	SET 5/8" IRON ROD WITH RPC MARKED "ODOT CONTROL", FLUSH

**NARRATIVE**

THE PURPOSE OF THIS SURVEY IS TO RESOLVE THE EXISTING RIGHT OF WAY CENTER LINE AND RETRACE THE EXISTING RIGHT OF WAY MARGINS FOR A PORTION OF UKIAH - HILGARD HIGHWAY (OR244) IN THE VICINITY OF THE INTERSECTION WITH THE EXISTING CULVERT AT MARLEY CREEK. THIS SURVEY IS ALSO TO PERPETUATE THOSE SURVEY MONUMENTS IN JEOPARDY OF BEING DESTROYED BY A FUTURE CONSTRUCTION PROJECT. THIS SURVEY MEETS THE REQUIREMENTS FOR A RECOVERY SURVEY AS OUTLINED IN THE OREGON REVISED STATUTES, SECTION 209.155.

THIS SURVEY WAS PERFORMED IN INTERNATIONAL FEET UNITS. THIS SURVEY WAS PERFORMED BETWEEN THE MONTHS OF OCTOBER 2016 AND JANUARY 2017. THE SURVEY EQUIPMENT USED CONSISTED OF LEICA GS-14 RECEIVERS, A LEICA MS-50 TOTAL STATION, AND LEICA VIVA SURVEY CONTROLLERS.

**UKIAH - HILGARD HIGHWAY (OR244)**

THE RECORD SHAPE OF THE CENTER LINE ALIGNMENT FOR UKIAH - HILGARD HIGHWAY WAS RECREATED AS SHOWN ON ODOT DRAWING NO. 7B-24-18. NO CENTER LINE OR RIGHT OF WAY MONUMENTS WERE FOUND TO POSITION SAID ALIGNMENT, THEREFORE, THE EXISTING EDGE OF PAVEMENT WAS HELD AS THE BEST REMAINING EVIDENCE OF THE LOCATION OF THE HIGHWAY TO POSITION SAID ALIGNMENT. THE RESULTING LOCATION FOR THE HIGHWAY FIT VERY WELL WITH THE EXISTING OCCUPATION LINES AND EDGE OF PAVEMENT. RIGHT OF WAY WIDTH WAS ESTABLISHED AS DESCRIBED IN ODOT RIGHT OF WAY FILE 21400 (RECORDED IN BOOK 133, PAGE 571 UNION COUNTY DEED RECORDS).

**ACCESS ALIGNMENT ("A" LINE)**

THE RECORD SHAPE OF THE CENTER LINE ALIGNMENT FOR THE ACCESS ROAD NEAR MARLEY CREEK CULVERT WAS RECREATED AS SHOWN ON ODOT DRAWING NO. 7B-24-18 AND POSITIONED BY HOLDING THE UKIAH - HILGARD CENTER LINE STATION 197+84.67 P.S. AND HOLDING RECORD ANGLE OF 61°31'06" FROM SAID UKIAH - HILGARD CENTER LINE TO THE CENTER LINE OF THE ACCESS ROAD PER SAID ODOT DRAWING 7B-24-18. RIGHT OF WAY WIDTH WAS ESTABLISHED AS DESCRIBED IN ODOT RIGHT OF WAY FILE 21400 (RECORDED IN BOOK 133, PAGE 571 UNION COUNTY DEED RECORDS).

**REFERENCES**

- ODOT DRAWING 7B-24-18 BY THE OREGON STATE HIGHWAY DEPARTMENT, DATED NOV. 1953
- SURVEY NO. 043-1976 BY DUANE GRIFFITH, DATED JULY 1976
- SURVEY NO. 041-1988 BY THOMAS A. MILNE, FILED NOV. 29, 1988
- SURVEY NO. 021-1989 BY LEELAND LEE MEYERS, FILED SEPT. 25, 1989
- SURVEY NO. 033-1993 BY DAVID L. HADDOCK, FILED AUG. 8, 1993

**ABBREVIATIONS**

ALUM = ALUMINUM  
 RPC = RED PLASTIC CAP  
 SN = SURVEY NUMBER

REGISTERED PROFESSIONAL LAND SURVEYOR  
  
 OREGON  
 JAN. 14, 2003  
 BRET N. ELITHORP  
 63148  
 RENEWAL: DEC. 31, 2017

UNION COUNTY SURVEYOR  
 Date Received 1-25-17  
 Date Filed 1-25-17  
 By   
 File No. 003-2017

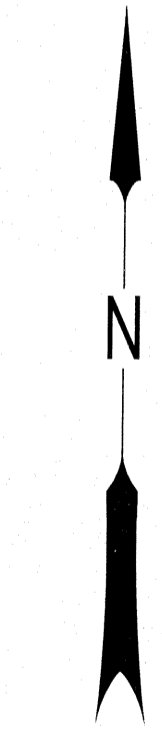
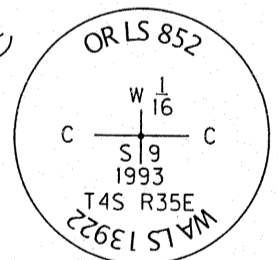
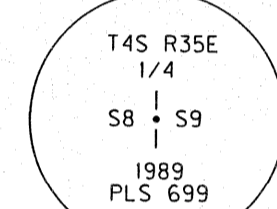
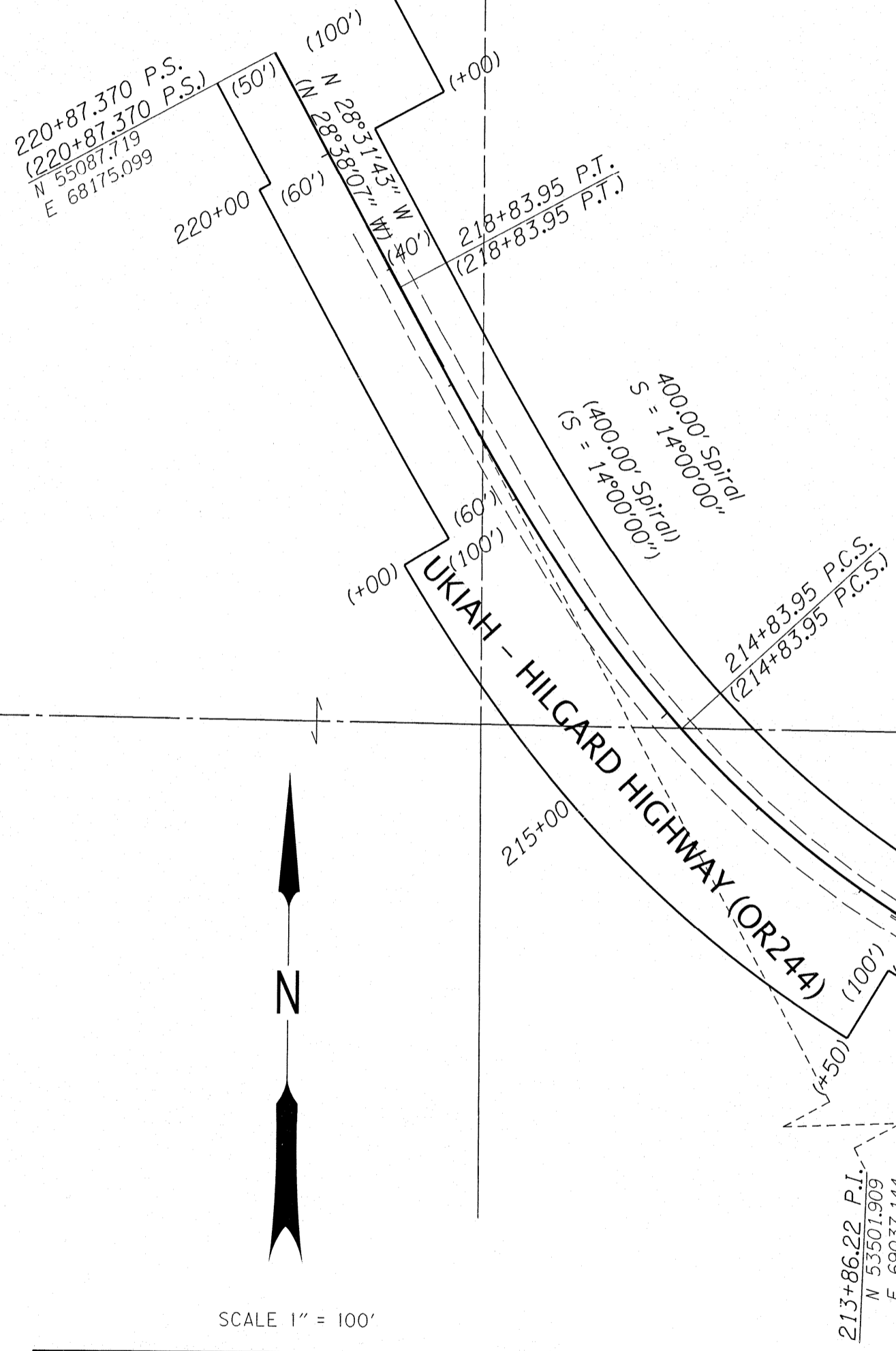
OREGON DEPARTMENT OF TRANSPORTATION  
 HORIZONTAL CONTROL, RECOVERY AND RETRACEMENT MAP  
 MARLEY CREEK CULVERT  
 UKIAH - HILGARD HWY (OR244)  
 UNION COUNTY  
  
 FOR ODOT REGION 5  
 3012 ISLAND AVENUE  
 LA GRANDE, OR 97850  
 JANUARY 24, 2017  
 NO SCALE  
 SHEET 1 OF 3

**SURVEY NUMBER 003-2017**

NE 1/4 SEC. 8, T. 4 S., R. 35 E., W.M.  
 SE 1/4 SEC. 8, T. 4 S., R. 35 E., W.M.  
 NW 1/4 SEC. 9, T. 4 S., R. 35 E., W.M.  
 SW 1/4 SEC. 9, T. 4 S., R. 35 E., W.M.

**LEGEND**

- ( ) RECORD DATA PER ODOT DRG. 7B-24-18
- [ ] RECORD DATA PER SURVEY NO. 033-1993
- FOUND MONUMENT NOTED IN TABLE
- ★ SET GPS STATION
- ▲ SET NETWORK POINT
- EDGE OF GRAVEL
- - - EDGE OF PAVEMENT
- RIGHT-OF-WAY
- PROPERTY LINE
- X- FENCE



**RECOVERED MONUMENT LIST**

PT. NO.	NORTHING	EASTING	STATION	OFFSET	DATE	DESCRIPTION & REFERENCE DOCUMENTS
1000	54563.58	69650.84	N/A	N/A	10/04/2016	FD 2-1/2" IRON PIPE WITH 2-1/2" ALUM. DISK MARKED AS SHOWN, UP 1", SN 021-1989
1001	54563.00	70978.76	N/A	N/A	10/04/2016	FD 5/8" IRON ROD WITH 2" ALUM. DISK MARKED AS SHOWN, UP 22", SN 033-1993

REGISTERED PROFESSIONAL LAND SURVEYOR

*Bret N. Elithorp*  
 OREGON  
 JAN. 14, 2003  
 BRET N. ELITHORP  
 63148

RENEWAL: DEC. 31, 2017

OREGON DEPARTMENT OF TRANSPORTATION  
 HORIZONTAL CONTROL, RECOVERY AND RETRACEMENT MAP  
 MARLEY CREEK CULVERT  
 UKIAH - HILGARD HWY (OR244)  
 UNION COUNTY



FOR ODOT REGION 5  
 3012 ISLAND AVENUE  
 LA GRANDE, OR 97850

JANUARY 24, 2017  
 SCALE: 1" = 100'  
 SHEET 2 OF 3

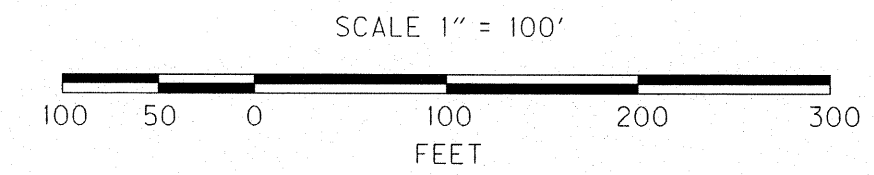
**UNION COUNTY SURVEYOR**

Date Received 1/25/17  
 Date Filed 1/25/17  
*John Galvin*  
 No. 003-2017

**SURVEY NUMBER 003-2017**

NE 1/4 SEC. 8, T. 4 S., R. 35 E., W.M.  
 NW 1/4 SEC. 9, T. 4 S., R. 35 E., W.M.

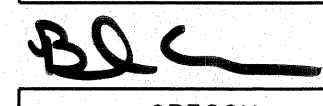
LEGEND	
( )	RECORD DATA PER ODOT DRG. 7B-24-18
[ ]	RECORD DATA PER SURVEY NO. 033-1993
○	FOUND MONUMENT NOTED IN TABLE
★	SET GPS STATION
▲	SET NETWORK POINT
----	EDGE OF GRAVEL
---	EDGE OF PAVEMENT
—	RIGHT-OF-WAY
—	PROPERTY LINE
-X-	FENCE




RECOVERED MONUMENT LIST

PT. NO.	NORTHING	EASTING	STATION	OFFSET	DATE	DESCRIPTION & REFERENCE DOCUMENTS
1001	54563.00	70978.76	N/A	N/A	10/04/2016	FD 5/8" IRON ROD WITH 2" ALUM. DISK MARKED AS SHOWN, UP 22", SN 033-1993
1002	55898.22	70978.30	N/A	N/A	10/04/2016	FD 5/8" IRON ROD WITH 2" ALUM. DISK MARKED AS SHOWN, UP 3", SN 033-1993
1003	55898.02	69645.14	N/A	N/A	10/04/2016	FD 5/8" IRON ROD WITH 2" ALUM. DISK MARKED AS SHOWN, UP 3", SN 033-1993

**UNION COUNTY SURVEYOR**  
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 MARLEY CREEK CULVERT  
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 FOR ODOT REGION 5  
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 SCALE: 1" = 100'  
 SHEET 3 OF 3

