

SURVEY NARRATIVE

THE PURPOSE OF THIS SURVEY IS TO MONUMENT A PORTION OF THE LA GRANDE - BAKER HIGHWAY LOCATED IN UNION COUNTY, OREGON AS PART OF THE RAMO-PYLES CULVERT REPLACEMENT PROJECT COMPLETED IN 2006. THIS PROJECT WAS ADMINISTERED BY THE OREGON DEPARTMENT OF TRANSPORTATION (ODOT). IT BECAME OBVIOUS THAT THE EXISTING ROAD WAS NOT BUILT TO THE CURVE DATA AS DESCRIBED BY ODOT DRAWING 3B-4-8, WHICH IS THE RIGHT OF WAY (RW) MAP FOR WHERE ODOT ORIGINALLY TOOK OVER POSSESSION OF THE ROADWAY. THE POSITION OF THE NEWLY ACQUIRED RW AS SHOWN BY THIS SURVEY IS FROM ODOT DRAWING 10B-22-25. THE USE OF A MONUMENTATION BY BOUNDARY WAS USED FOR AREA 1 AND 2 HOWEVER, DUE TO THE LOCATION OF THE RW PINS IN AREA 3. WE WERE UNABLE TO SET MONUMENTS IN THE GROUND, SO IT WAS DETERMINED THAT THE USE OF A NETWORK MONUMENTATION FOR AREA 3 WOULD BE THE BEST METHOD.

RW WAS RESOLVED AS FOLLOWS :  
 AREA 1 - USE SPLIT OF PAVEMENT AT STATIONS 61+61.32 AND 64.26.25, ASSUMING STATIONING OF 63+90.0 AS PER ODOT DRAWING 1R-1-835 AT AN EXISTING FENCE CORNER. THE BEARINGS, DISTANCES AND STATIONING MATCH ODOT DRAWING 10B-22-25.

AREA 2 - USE SPLIT OF PAVEMENT AT STATIONS 76+66.23 AND 78+68.02, ASSUMING STATIONING OF 77+00 AT THE INTERSECTION OF HIGHWAY CENTER LINE WITH THE CENTER OF A BOX CULVERT AS PER ODOT HIGHWAY INVENTORY. THE BEARINGS, DISTANCES AND STATIONING MATCH ODOT DRAWING 10B-22-25.

AREA 3 - USE SPLIT OF PAVEMENT AT STATIONS 86+57.12 AND 88+57.37, ASSUMING STATIONING OF 88+60 AT THE INTERSECTION OF HIGHWAY CENTER LINE WITH THE CENTER OF A BOX CULVERT AS PER ODOT HIGHWAY INVENTORY. THE BEARINGS, DISTANCES AND STATIONING MATCH ODOT DRAWING 10B-22-25.

COORDINATES: THIS DRAWING UTILIZES A LOCAL DATUM PLANE (LDP) WHICH IS RELATIVE TO THE OREGON COORDINATE SYSTEM OF 1983(91), NORTH ZONE, WITH RESPECT TO THE LOCAL LATITUDE AND GROUND ELEVATION. THE LDP COORDINATES DEFINE TRUE GROUND DISTANCES. TO CONVERT THE LDP COORDINATES, FOR THE CONTROL POINTS, TO THE OREGON COORDINATE SYSTEM OF 1983(91), NORTH ZONE, MULTIPLY THE LDP COORDINATES BY 0.99975711.

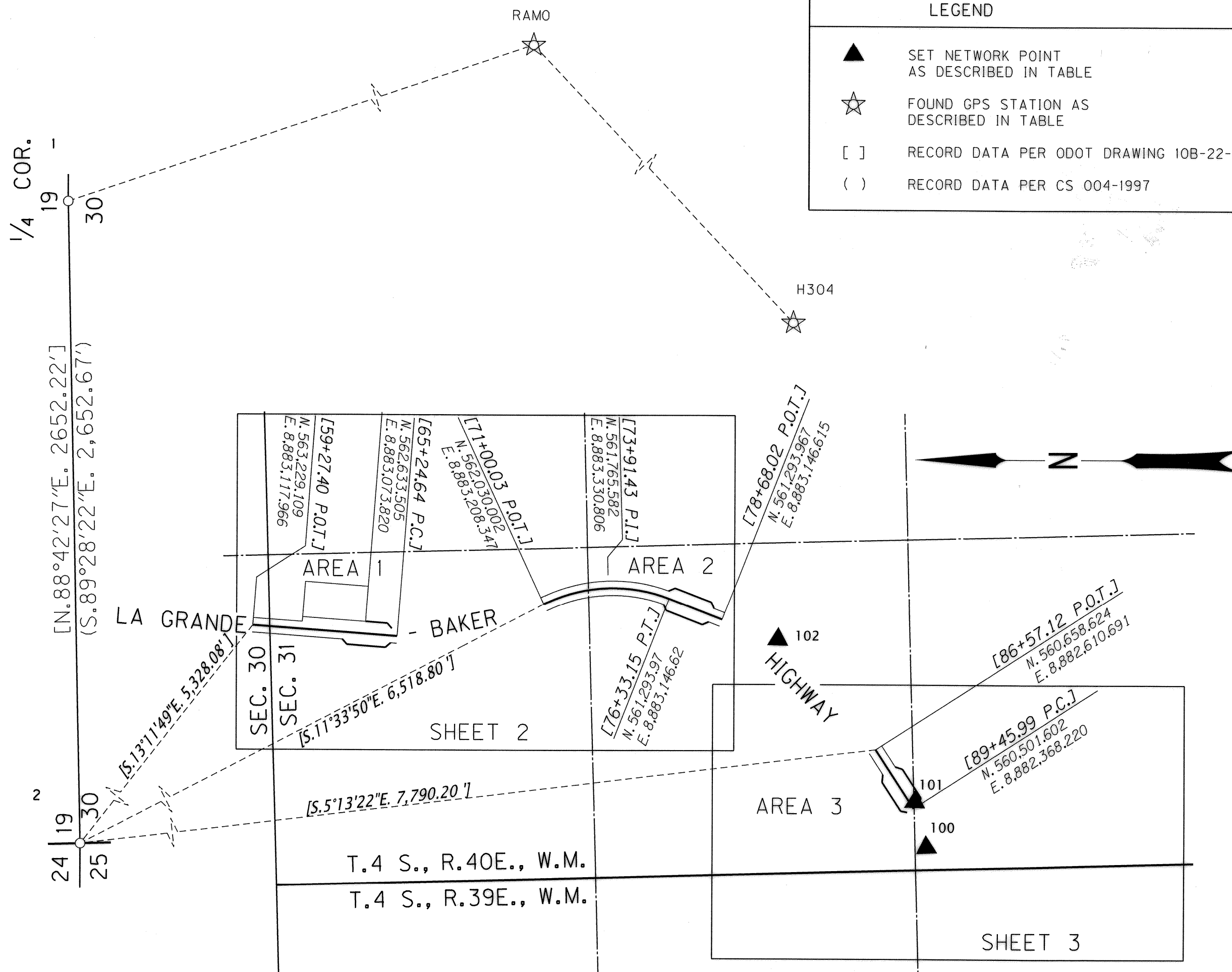
BASIS OF BEARING: OREGON COORDINATE SYSTEM OF 1983(91), NORTH ZONE, WITH A BEARING OF N.88°42'27"E. 2,652.22 FEET BETWEEN THE NW CORNER OF SECTION 30 AND THE N.1/4 CORNER OF SECTION 30.

REFERENCES

1. UNION COUNTY SURVEY 73
2. UNION COUNTY SURVEY 023-1989
3. UNION COUNTY SURVEY 004-1997
4. UNION COUNTY PARTITION PLAT 2002-002
5. ODOT DRAWING 1R-1-835
6. ODOT DRAWING 3B-4-8
7. ODOT DRAWING 10B-22-25

UNION COUNTY SURVEYOR	
Date Received	6/28/17
Date Filed	6/28/17
By	<i>[Signature]</i>
File No.	028-2017

LEGEND	
▲	SET NETWORK POINT AS DESCRIBED IN TABLE
☆	FOUND GPS STATION AS DESCRIBED IN TABLE
[ ]	RECORD DATA PER ODOT DRAWING 10B-22-25
( )	RECORD DATA PER CS 004-1997



SHEET LAYOUT,  
 BASIS OF BEARING AND  
 CONTROL NETWORK SCHEMATIC  
 NOT TO SCALE

ALUM. = ALUMINUM  
 FD. = FOUND  
 R.P.C. = RED PLASTIC CAP  
 MKD. = MARKED  
 CS = COUNTY SURVEY

NETWORK POINT COORDINATE TABLE

PT. NO.	LDP NORTHING	LDP EASTING	DATE	DESCRIPTION
1	568,476.31	8,884,553.11	04/18/2017	FD. 2 1/2" ALUM. CAP MKD. "T4S, R40E, 1/4, S19, S30, 1997, OPLS 991" (CS 004-1997)
2	568,416.48	8,881,901.57	04/18/2017	FD. 2 1/2" ALUM. CAP MKD. "T4S, R39E, R40E, S24, S19, S25, S30, 1989, OPLS 644" (CS 23-89)
RAMO	566,039.80	8,884,376.62	04/18/2017	FD. 3" BRASS DISK MKD. "OREGON STATE HIGHWAY DIVISION, TRIANGULATION STA, RAMO, 1991"
H304	564,584.36	8,882,827.30	04/18/2017	FD. 3" BRASS CAP MARKED "H304, 1934, U.S. COAST & GEODETIC SURVEY"
100	560,482.45	8,882,282.11	05/02/2017	SET 5/8"X30" SMOOTH IRON ROD WITH R.P.C. MKD.: "ODOT CONTROL"
101	560,530.19	8,882,469.28	05/02/2017	SET 1" COPPER DISK IN CULVERT HEADWALL MKD.: "ODOT"
102	561,026.98	8,883,038.34	05/02/2017	SET 5/8"X30" SMOOTH IRON ROD WITH R.P.C. MKD.: "ODOT CONTROL"

REGISTERED PROFESSIONAL LAND SURVEYOR

*Robert I. Butler*

OREGON JULY 25, 1995 ROBERT ERICH BUTLER

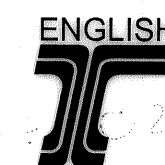
EXPIRES: 12/31/2017

OREGON DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY BOUNDARY MONUMENTATION MAP &  
 RIGHT-OF-WAY NETWORK MONUMENTATION MAP  
 RAMO-PYLES CULVERT REPLACEMENT SECTION  
 LA GRANDE - BAKER HIGHWAY

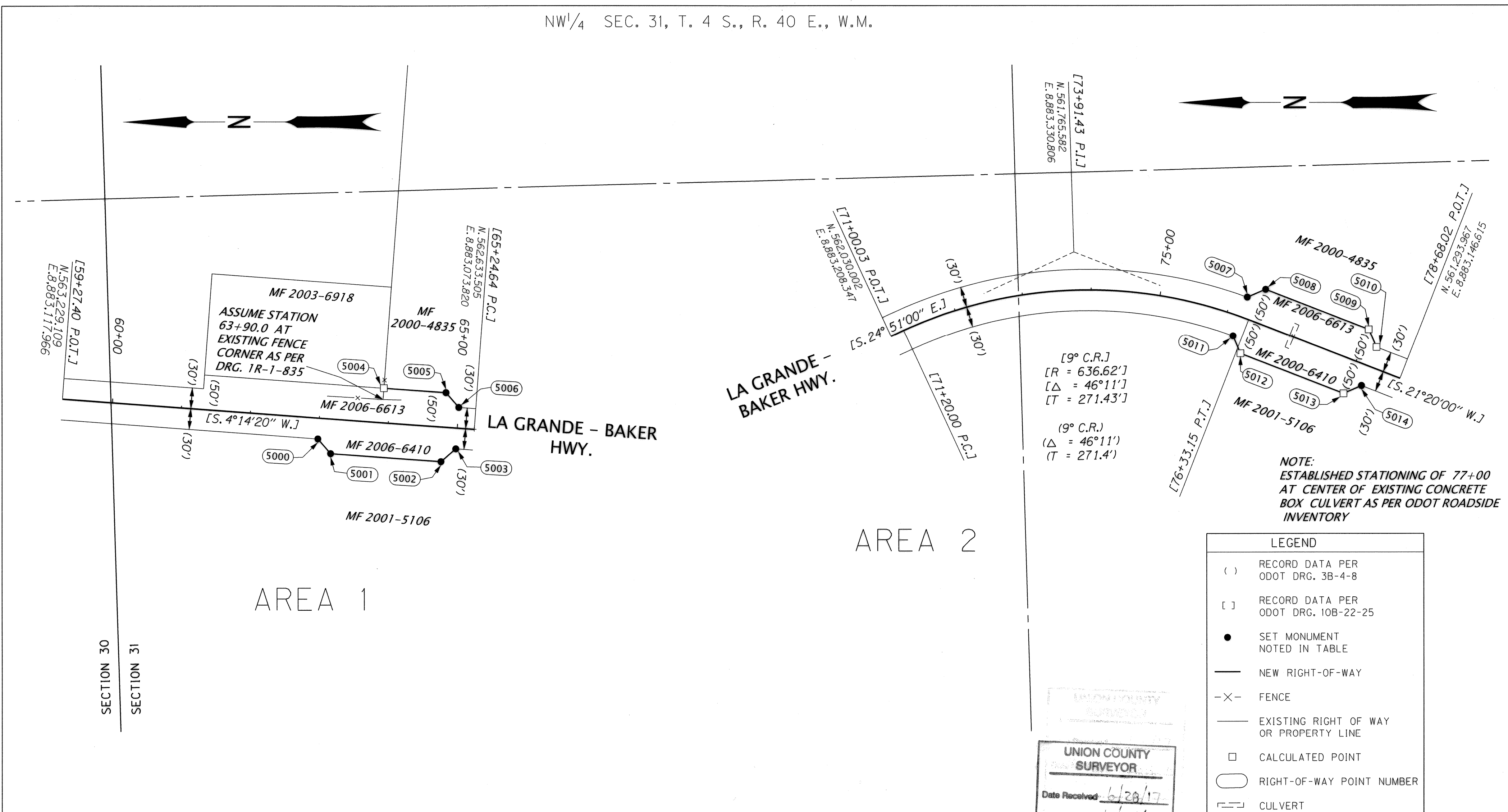
UNION COUNTY

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



MAY 31, 2017  
 NOT TO SCALE  
 SHEET 1 OF 3

SURVEY NUMBER 028-2017



AREA 1

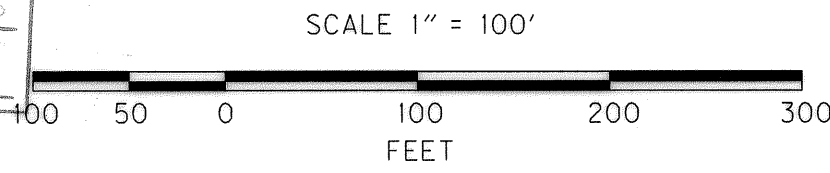
AREA 2

LEGEND

- ( ) RECORD DATA PER ODOT DRG. 3B-4-8
- [ ] RECORD DATA PER ODOT DRG. 10B-22-25
- SET MONUMENT NOTED IN TABLE
- NEW RIGHT-OF-WAY
- X- FENCE
- EXISTING RIGHT OF WAY OR PROPERTY LINE
- CALCULATED POINT
- RIGHT-OF-WAY POINT NUMBER
- - - CULVERT

NOTE:  
ESTABLISHED STATIONING OF 77+00 AT CENTER OF EXISTING CONCRETE BOX CULVERT AS PER ODOT ROADSIDE INVENTORY

UNION COUNTY SURVEYOR  
Date Received: 6/28/17  
Date Filed: 6/28/17  
By: [Signature]  
File No. 028-2017



MKD. = MARKED  
ALUM. = ALUMINUM  
W/ = WITH

SET MONUMENT LIST

PT. NO.	LDP NORTHING	LDP EASTING	STATION	OFFSET	DATE	DESCRIPTION
5000	562,859.75	8,883,060.51	63+00.00	30.00 RT.	04/18/2017	SET 5/8" X 30" IRON ROD W/1 1/2" ALUM. CAP MKD. "ODOT"
5001	562,841.28	8,883,039.08	63+20.00	50.00 RT.	04/18/2017	SET 5/8" X 30" IRON ROD W/1 1/2" ALUM. CAP MKD. "ODOT"
5002	562,681.72	8,883,027.26	64+80.00	50.00 RT.	04/18/2017	SET 5/8" X 30" IRON ROD W/1 1/2" ALUM. CAP MKD. "ODOT"
5003	562,660.29	8,883,045.72	65+00.00	30.00 RT.	04/18/2017	SET 5/8" X 30" IRON ROD W/1 1/2" ALUM. CAP MKD. "ODOT"
5004	562,764.08	8,883,133.64	63+90.00	50.00 LT.	04/18/2017	CALCULATED POINT - UNABLE TO SET
5005	562,674.32	8,883,126.98	64+80.00	50.00 LT.	04/18/2017	SET 5/8" X 30" SMOOTH IRON ROD W/1 1/2" ALUM. CAP MKD. "ODOT"
5006	562,655.86	8,883,105.56	65+00.00	30.00 LT.	04/18/2017	SET 5/8" X 30" SMOOTH IRON ROD W/1 1/2" ALUM. CAP MKD. "ODOT"
5007	561,514.71	8,883,264.88	76+20.00	30.00 LT.	04/18/2017	SET 5/8" X 30" SMOOTH IRON ROD W/1 1/2" ALUM. CAP MKD. "ODOT"
5008	561,488.18	8,883,276.14	76+40.00	50.00 LT.	04/18/2017	SET 5/8" X 30" SMOOTH IRON ROD W/1 1/2" ALUM. CAP MKD. "ODOT"
5009	561,339.14	8,883,217.93	78+00.00	50.00 LT.	04/18/2017	CALCULATED POINT - UNABLE TO SET
5010	561,327.78	8,883,192.03	78+20.00	30.00 LT.	04/18/2017	CALCULATED POINT - UNABLE TO SET
5011	561,535.38	8,883,208.55	76+20.00	30.00 RT.	04/18/2017	SET 5/8" X 30" SMOOTH IRON ROD W/1 1/2" ALUM. CAP MKD. "ODOT"
5012	561,524.55	8,883,182.99	76+40.00	50.00 RT.	04/18/2017	CALCULATED POINT - UNABLE TO SET
5013	561,375.52	8,883,124.79	78+00.00	50.00 RT.	04/18/2017	CALCULATED POINT - UNABLE TO SET
5014	561,349.61	8,883,136.14	78+20.00	30.00 RT.	04/18/2017	SET 5/8" X 30" SMOOTH IRON ROD W/1 1/2" ALUM. CAP MKD. "ODOT"

REGISTERED PROFESSIONAL LAND SURVEYOR  
Robert E. Butler  
OREGON JULY 25, 1995  
ROBERT ERICH BUTLER  
EXPIRES: 12/31/2017

OREGON DEPARTMENT OF TRANSPORTATION  
RIGHT OF WAY BOUNDARY MONUMENTATION MAP &  
RIGHT-OF-WAY NETWORK MONUMENTATION MAP  
RAMO-PYLES CULVERT REPLACEMENT SECTION  
LA GRANDE - BAKER HIGHWAY  
UNION COUNTY

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

ENGLISH

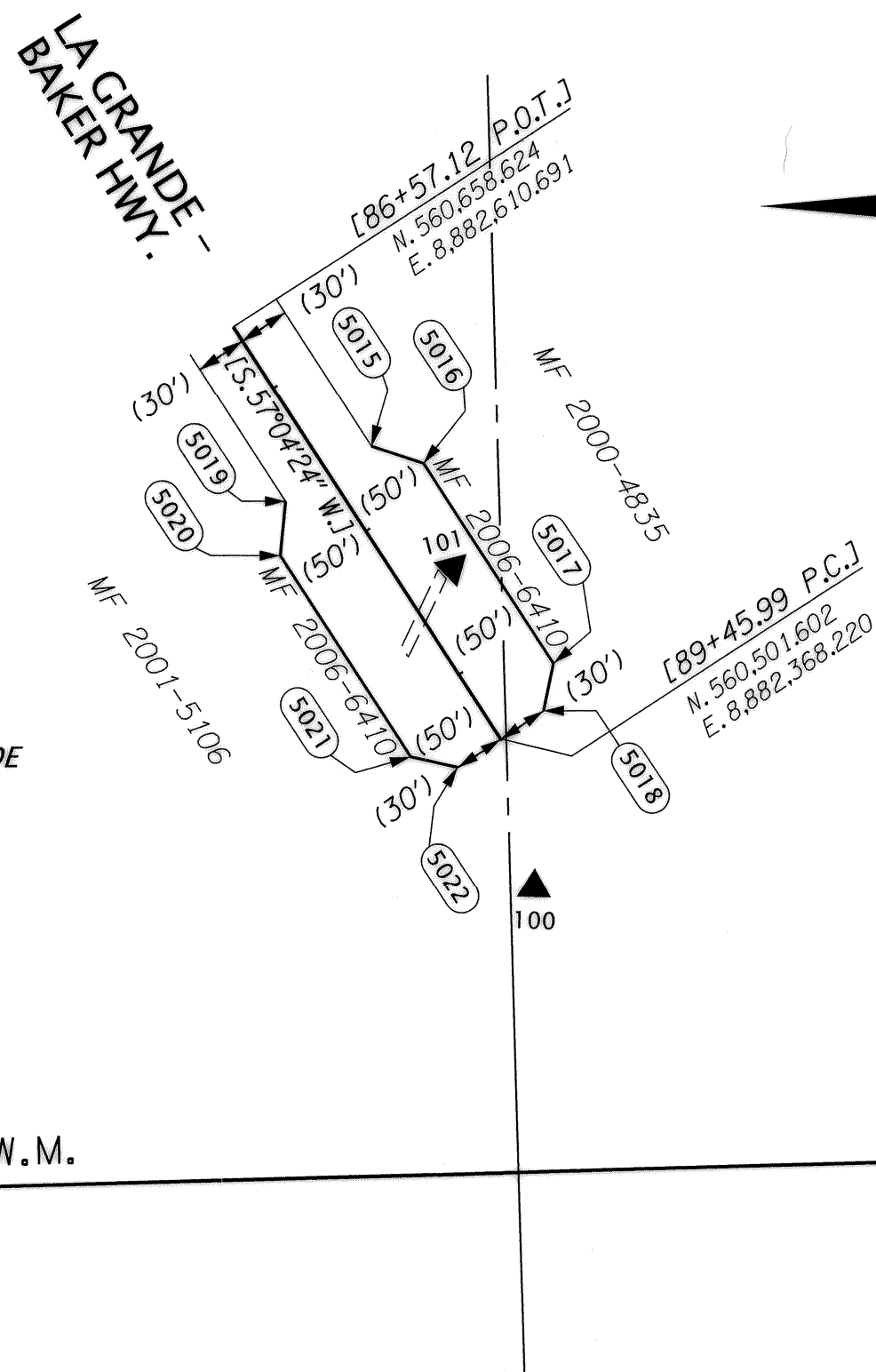
MAY 31, 2017  
SCALE: 1" = 100'  
SHEET 2 OF 3

SURVEY NUMBER 028-2017

NW<sup>1</sup>/<sub>4</sub> AND THE SW<sup>1</sup>/<sub>4</sub> SEC. 31, T. 4 S., R. 40 E., W.M.

AREA 3

NOTE:  
ESTABLISHED STATIONING OF 88+60  
AT CENTER OF EXISTING CONCRETE  
BOX CULVERT AS PER ODOT ROADSIDE  
INVENTORY



LEGEND	
( )	RECORD DATA PER ODOT DRG. 3B-4-8
[ ]	RECORD DATA PER ODOT DRG. 10B-22-25
	BOX CULVERT
	NEW RIGHT-OF-WAY
	EXISTING RIGHT OF WAY
	RIGHT-OF-WAY POINT NUMBER
	SET NETWORK POINT

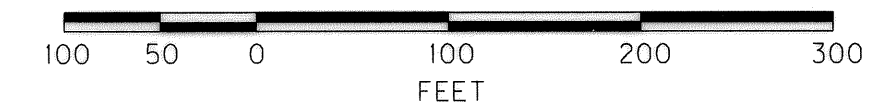
SEC. 31 T.4 S., R.40 E., W.M.

T.4 S., R.39 E., W.M.

UNION COUNTY  
SURVEYOR  
Date Received 6/28/17  
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By HD Gillman  
File No. 028-2017

REGISTERED  
PROFESSIONAL  
LAND SURVEYOR  
*Robert E. Butler*  
OREGON  
JULY 25, 1995  
ROBERT ERICH BUTLER  
EXPIRES: 12/31/2017

SCALE 1" = 100'



R/W LOCATION TABLE

PT. NO.	LDP NORTHING	LDP EASTING	STATION	OFFSET	DESCRIPTION
5015	560,577.52	8,882,540.64	87+60.00	30.00 LT.	RIGHT-OF-WAY POINT, NO MONUMENTS SET
5016	560,547.14	8,882,530.53	87+85.00	50.00 LT.	RIGHT-OF-WAY POINT, NO MONUMENTS SET
5017	560,471.05	8,882,413.02	89+25.00	50.00 LT.	RIGHT-OF-WAY POINT, NO MONUMENTS SET
5018	560,476.96	8,882,385.36	89+45.00	30.00 LT.	RIGHT-OF-WAY POINT, NO MONUMENTS SET
5019	560,627.88	8,882,508.03	87+60.00	30.00 RT.	RIGHT-OF-WAY POINT, NO MONUMENTS SET
5020	560,631.08	8,882,476.17	87+85.00	50.00 RT.	RIGHT-OF-WAY POINT, NO MONUMENTS SET
5021	560,554.98	8,882,358.66	89+25.00	50.00 RT.	RIGHT-OF-WAY POINT, NO MONUMENTS SET
5022	560,527.32	8,882,352.75	89+45.00	30.00 RT.	RIGHT-OF-WAY POINT, NO MONUMENTS SET

OREGON DEPARTMENT OF TRANSPORTATION  
RIGHT-OF-WAY BOUNDARY MONUMENTATION MAP &  
RIGHT OF WAY NETWORK MONUMENTATION MAP  
RAMO-PYLES CULVERT REPLACEMENT SECTION  
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SHEET 3 OF 3

SURVEY 028-2017