

RELOCATED CENTERLINE TABLE

LINE	BEARING	DISTANCE	CURVE	RADIUS	DELTA	LENGTH	CHORD BEARING	CHORD
1	S88°00'01"E	131.35'	②	700.00'	30°29'28"	372.52'	N76°45'15"E	368.14'
3	N61°30'31"E	188.47'	④	1500.00'	02°38'05"	68.98'	N62°49'34"E	68.97'
5	N64°08'36"E	613.57'	⑥	1000.00'	48°59'33"	855.08'	N88°38'22"E	829.27'
7	S66°51'51"E	350.03'						

**\*\*RECEIVED\*\***  
 Date 10-23-08 By CB  
 This Survey Consists of:  
3 Sheet(s) Map  
0 Page(s) Narrative  
 JACKSON COUNTY SURVEYOR

JL 8/26/2008  
 Field JVO 08/27/2008  
 Calculations KVC 09/03/2008  
 Drawn JAC 09/09/2008  
 Checked

REGISTERED PROFESSIONAL LAND SURVEYOR

OREGON  
 JULY 15, 1983  
 JOHN A. CARLSON  
 2044  
 RENEWAL: 12-31-09

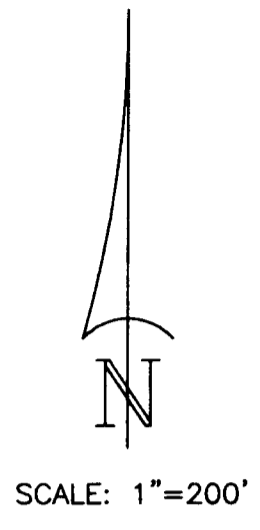
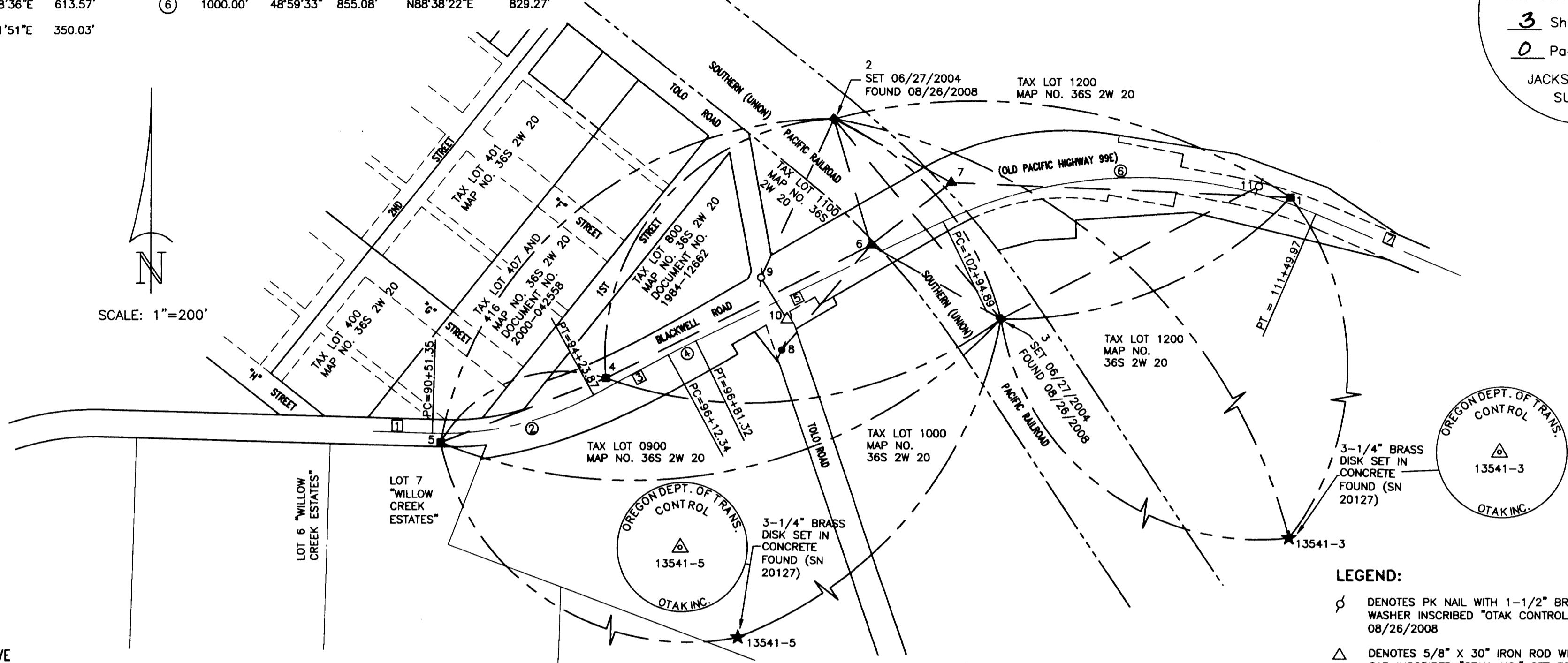
POST CONSTRUCTION RECORD OF SURVEY

BLACKWELL ROAD RAILROAD OVERCROSSING BRIDGE LOCATED IN THE SOUTH 1/2 OF SECTION 20 TOWNSHIP 36 SOUTH, RANGE 2 WEST WILLAMETTE MERIDIAN, JACKSON COUNTY, OREGON



17355 SW Boones Ferry Rd.  
 Lake Oswego, Oregon 97035  
 Phone: (503) 635-3618  
 FAX: (503) 635-5395

12502  
 Project No. S12502R160  
 File No. 1 OF 3  
 Sheet No.



LEGEND:

- ⊕ DENOTES PK NAIL WITH 1-1/2" BRASS WASHER INSCRIBED "OTAK CONTROL" SET ON 08/26/2008
- △ DENOTES 5/8" X 30" IRON ROD WITH RED PLASTIC CAP INSCRIBED "OTAK INC." SET FOR CONTROL ON 08/26/2008
- ⊙ DENOTES PK NAIL WITH 1-1/2" BRASS WASHER INSCRIBED "OTAK CONTROL" SET ON 06/27/2004, NOT FOUND 08/26/2008
- ▲ DENOTES 5/8" X 30" IRON ROD WITH RED PLASTIC CAP INSCRIBED "OTAK INC." SET FOR CONTROL MONUMENT ON 06/27/2004 NOT FOUND 08/26/2008
- DENOTES 5/8" IRON ROD WITH 2" ALUMINUM CAP INSCRIBED "OTAK INC." SET FOR CONTROL MONUMENT ON 06/27/2004, NOT FOUND 08/26/2008 EXCEPT AS NOTED
- DENOTES MONUMENTS FOUND 06/27/2004 AS NOTED
- ★ DENOTES CONTROL MONUMENT FOUND 06/27/2004 AS SHOWN
- SN DENOTES SURVEY NUMBER, JACKSON COUNTY SURVEYORS OFFICE
- LDP DENOTES LOCAL DATUM PLANE
- LDP DENOTES LOCAL DATUM PLANE
- OSP DENOTES OREGON STATE PLANE
- PC DENOTES POINT OF CURVATURE
- PT DENOTES POINT OF TANGENCY
- DENOTES GPS MEASUREMENT
- DENOTES TERRESTRIAL MEASUREMENT

NARRATIVE

PURPOSE OF SURVEY:  
 THE PURPOSE OF THIS SURVEY WAS TO ESTABLISH PROJECT CONTROL FOR MAPPING AND RIGHT OF WAY ACQUISITION PURPOSES AND TO MONUMENT THE ACQUIRED RIGHT OF WAY. BECAUSE THE BRIDGE REPLACEMENT AND RELATED STREET IMPROVEMENTS MAY DISTURB OR DESTROY EXISTING RECORD SURVEY MONUMENTATION WITHIN THE CONSTRUCTION AREA, THIS SURVEY ALSO SERVES TO REFERENCE THOSE MONUMENTS IN CONFORMANCE WITH O.R.S. 209.150(2)(a) AND O.R.S. 209.150(3).

BASIS OF BEARINGS:  
 THE BASIS OF BEARINGS FOR THIS SURVEY IS THE OREGON COORDINATE SYSTEM OF 1983, SOUTH ZONE, BASED ON GPS OBSERVATIONS AT OREGON DEPARTMENT OF TRANSPORTATION CONTROL POINTS "13541-3" AND "13541-5" AS SHOWN ON SURVEY NUMBER 20127, JACKSON COUNTY SURVEYOR'S OFFICE.

HORIZONTAL CONTROL NETWORK MEASUREMENTS AND ADJUSTMENT:  
 NETWORK MEASUREMENTS WERE ACCOMPLISHED USING A COMBINATION OF STATIC AND REAL-TIME GPS, AND TERRESTRIAL EQUIPMENT AND PROCEDURES, AND ARE AS SHOWN ON SHEET ONE OF THIS SURVEY. GPS MEASUREMENTS WERE MADE USING TRIMBLE MODEL 5700 AND 5800 RECEIVERS. TERRESTRIAL MEASUREMENTS WERE PERFORMED USING A GEODIMETER MODEL 610 SERVO-DRIVEN TOTAL STATION (+/- 3" ANGULAR PRECISION, 2MM +/- 2 PPM EDM). ALL FOUND MONUMENTS WERE "DOUBLE TIED": FOR REAL-TIME KINEMATIC GPS MEASUREMENTS, THIS MEANS THAT EACH MONUMENT WAS TIED FROM TO DIFFERENT BASE STATION LOCATIONS; FOR TERRESTRIAL MEASUREMENTS, THIS MEANS THAT EACH MONUMENT WAS TIED FROM TWO DIFFERENT CONTROL POINTS, OR FROM ONE CONTROL POINT USING TWO DIFFERENT BACKSIGHT CONTROL POINTS. THE GPS AND TERRESTRIAL MEASUREMENT DATA WERE SIMULTANEOUSLY ADJUSTED USING "STAR\*NET" VERSION 6.0.25 LEAST SQUARES ADJUSTMENT SOFTWARE. THE NETWORK WAS CONSTRAINED TO THE PUBLISHED NAD83(1998) VALUE OF STATION 13541-3 AND 13541-5 AS SHOWN ON SURVEY NUMBER 20127.

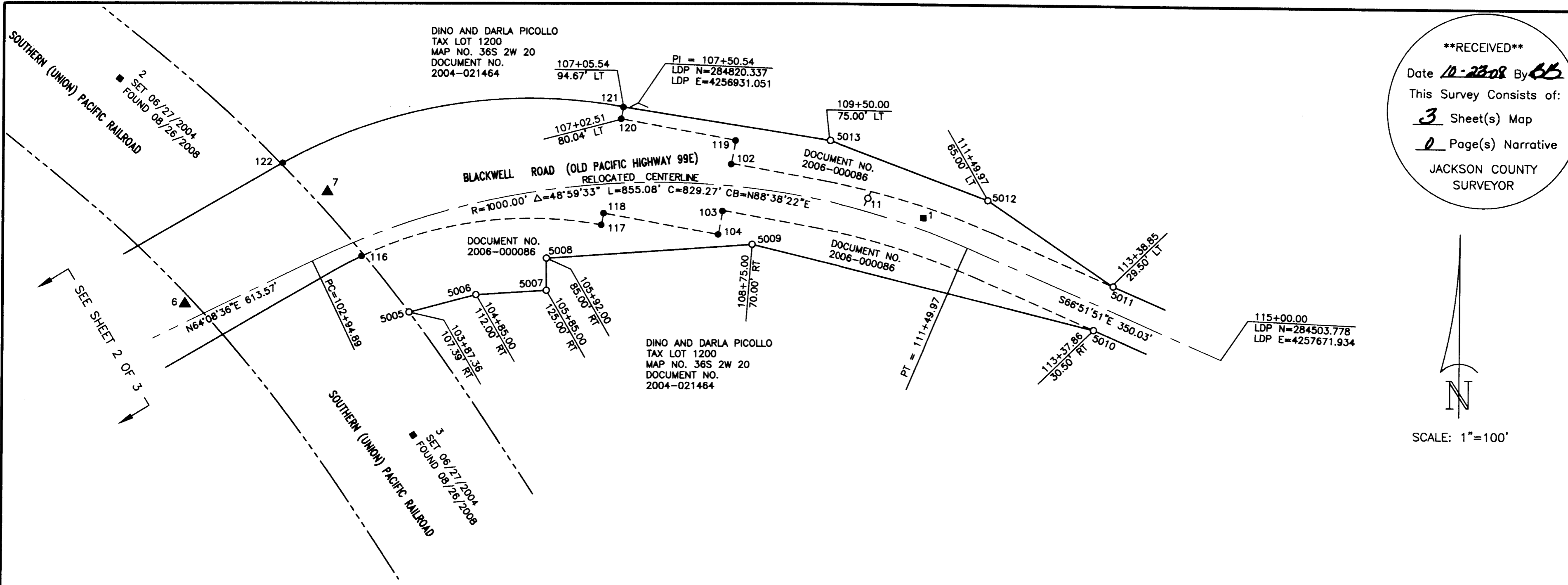
COORDINATE SYSTEM:  
 THE COORDINATES SHOWN IN THIS SURVEY ARE IN UNITS OF INTERNATIONAL FEET, AND ARE ON A LOCAL DATUM PLANE (LDP) SYSTEM TO REPRESENT GROUND SURFACE VALUES. TO CONVERT THE LDP COORDINATES TO OREGON STATE PLANE OF 1983, SOUTH ZONE VALUES (NAD83(1998)), MULTIPLY THE LDP COORDINATES BY THE PROJECT SCALE OF 0.99992759.

RIGHT OF WAY DETERMINATION:  
 HELD THE REFERENCED DEED STATIONS AND OFFSET DATA AS SHOWN ON SHEETS 2 AND 3.

PROJECT CONTROL MONUMENTS

NO.	LOCAL DATUM PLANE COORDINATE		DESCRIPTION	SURVEY REFERENCE
	NORTHING	EASTING		
1	284678.327	4257293.997	SET 5/8" IRON ROD WITH ALUMINUM CAP INSCRIBED "OTAK INC." FOR CONTROL POINT ON 06/27/2004	-----
2	284849.789	4256276.319	SET 5/8" IRON ROD WITH ALUMINUM CAP INSCRIBED "OTAK INC." FOR CONTROL POINT ON 06/27/2004	-----
3	284403.527	4256649.841	SET 5/8" IRON ROD WITH ALUMINUM CAP INSCRIBED "OTAK INC." FOR CONTROL POINT ON 06/27/2004	-----
4	284270.331	4255769.286	SET 5/8" IRON ROD WITH ALUMINUM CAP INSCRIBED "OTAK INC." FOR CONTROL POINT ON 06/27/2004	-----
5	284127.909	4255402.282	SET 5/8" IRON ROD WITH ALUMINUM CAP INSCRIBED "OTAK INC." FOR CONTROL POINT ON 06/27/2004	-----
6	284567.998	4256360.074	SET 5/8" X 30" IRON ROD WITH RED PLASTIC CAP INSCRIBED "OTAK INC." FOR CONTROL POINT ON 06/27/2004	-----
7	284709.376	4256539.128	SET 5/8" X 30" IRON ROD WITH RED PLASTIC CAP INSCRIBED "OTAK INC." FOR CONTROL POINT ON 06/27/2004	-----
8	284333.310	4256160.424	SET PK NAIL WITH 1-1/2" BRASS WASHER INSCRIBED "OTAK CONTROL" FOR CONTROL POINT ON 06/27/2004	-----
9	284495.270	4256113.964	SET PK NAIL WITH 1-1/2" BRASS WASHER INSCRIBED "OTAK CONTROL" FOR CONTROL POINT ON 08/26/2008	-----
10	284401.558	4256172.451	SET 5/8" X 30" IRON ROD WITH RED PLASTIC CAP INSCRIBED "OTAK CONTROL" FOR CONTROL POINT ON 08/26/2008	-----
11	284702.559	4257223.632	SET PK NAIL WITH 1-1/2" BRASS WASHER INSCRIBED "OTAK, INC." FOR CONTROL POINT ON 08/26/2008	-----
13541-3	281663.079	4260735.539	FOUND 3-1/4" BRASS DISK SET IN CONCRETE (SEE SKETCH)	SN 20127
13541-5	281659.840	4256356.809	FOUND 3-1/4" BRASS DISK SET IN CONCRETE (SEE SKETCH)	SN 20127

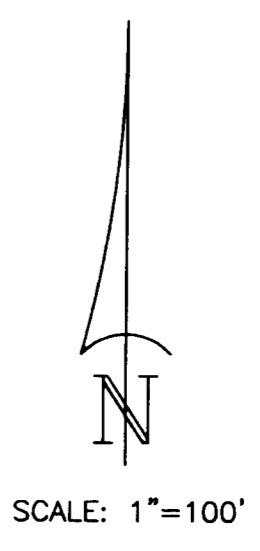
ASSESSOR'S MAP 36 2W 20,  
 TAX LOT NUMBERS 400, 401, 407, 416, 800,  
 900, 1000, 1100, AND 1200



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 Checked  
 REGISTERED PROFESSIONAL LAND SURVEYOR

*J.A. Carlson*  
 OREGON  
 JULY 15, 1983  
 JOHN A. CARLSON  
 2044  
 RENEWAL: 12-31-09



**REFERENCE SURVEYS:**

1. SURVEY NUMBER 119, JACKSON COUNTY SURVEYOR'S OFFICE.
2. SURVEY NUMBER 356, JACKSON COUNTY SURVEYOR'S OFFICES.
3. SURVEY NUMBER 1763, JACKSON COUNTY SURVEYOR'S OFFICE.
4. SURVEY NUMBER 10384, JACKSON COUNTY SURVEYOR'S OFFICE.
5. SURVEY NUMBER 20127, JACKSON COUNTY SURVEYOR'S OFFICE.
6. MAP OF TOWN OF TOLO, VOLUME 17, PAGE 184, BOOK 8/117, JACKSON COUNTY SURVEYOR'S OFFICE.
7. DLC69NE SECOND RE-ESTABLISHMENT RECORD, JACKSON COUNTY SURVEYOR'S OFFICE.
8. GCDB200300 SECOND RE-ESTABLISHMENT RECORD, JACKSON COUNTY SURVEYOR'S OFFICES.
9. OREGON DEAPRTMENT TO TRANSPORTATION MAP 6B-27-17

**LEGEND:**

- DENOTES 5/8" X 30" IRON ROD WITH YELLOW PLASTIC CAP INSCRIBED "OTAK INC." SET ON 08/26/2008
- DENOTES 5/8" X 30" IRON ROD WITH 2" ALUMINUM CAP INSCRIBED "OTAK INC." SET ON 08/26/2008
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- PC DENOTES POINT OF CURVATURE
- PT DENOTES POINT OF TANGENCY
- LT DENOTES LEFT
- RT DENOTES RIGHT

**PROJECT CONTROL, RECOVERED AND ESTABLISHED MONUMENTS**

NO.	LOCAL DATUM PLANE COORDINATE		DESCRIPTION	SURVEY REFERENCE
	NORTHING	EASTING		
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2	284849.789	4256276.319	SET 5/8" IRON ROD WITH ALUMINUM CAP INSCRIBED "OTAK INC." FOR CONTROL POINT ON 06/27/2004	-----
3	284403.527	4256649.841	SET 5/8" IRON ROD WITH ALUMINUM CAP INSCRIBED "OTAK INC." FOR CONTROL POINT ON 06/27/2004	-----
6	284567.998	4256360.074	SET 5/8" X 30" IRON ROD WITH RED PLASTIC CAP INSCRIBED "OTAK INC." FOR CONTROL POINT ON 06/27/2004	-----
7	284709.376	4256539.128	SET 5/8" X 30" IRON ROD WITH RED PLASTIC CAP INSCRIBED "OTAK INC." FOR CONTROL POINT ON 06/27/2004	-----
11	284702.559	4257223.632	SET PK NAIL WITH 1-1/2" BRASS WASHER INSCRIBED "OTAK CONTROL" FOR CONTROL POINT ON 08/26/2008	-----
102	284744.64	4257049.21	5/8" IRON ROD NO CAP DOWN 0.2' FOUND ON 07/27/2004 (POSSIBLE ODOT MONUMENT MAP 6B-27-17)	ORIGIN UNKNOWN
103	284685.74	4257038.44	5/8" IRON ROD NO CAP DOWN 0.8' FOUND ON 07/27/2004 (POSSIBLE ODOT MONUMENT MAP 6B-27-17)	ORIGIN UNKNOWN
104	284656.27	4257033.03	5/8" IRON ROD NO CAP DOWN 0.2' FOUND ON 07/27/2004 (POSSIBLE ODOT MONUMENT MAP 6B-27-17)	ORIGIN UNKNOWN
116	284627.99	4256583.02	5/8" IRON ROD NO CAP DOWN 0.1' FOUND ON 07/27/2004 (POSSIBLE ODOT MONUMENT MAP 6B-27-17)	ORIGIN UNKNOWN
117	284667.93	4256885.43	5/8" IRON ROD NO CAP DOWN 0.1' FOUND ON 07/27/2004 (POSSIBLE ODOT MONUMENT MAP 6B-27-17)	ORIGIN UNKNOWN
118	284682.61	4256888.16	5/8" IRON ROD NO CAP DOWN 0.1' FOUND ON 07/27/2004 (POSSIBLE ODOT MONUMENT MAP 6B-27-17)	ORIGIN UNKNOWN
119	284774.07	4257054.53	3/4" IRON ROD NO CAP DOWN 0.4' FOUND ON 07/27/2004 (POSSIBLE ODOT MONUMENT MAP 6B-27-17)	ORIGIN UNKNOWN
120	284800.68	4256909.66	3/4" IRON ROD NO CAP DOWN 0.1' FOUND ON 07/27/2004 (POSSIBLE ODOT MONUMENT MAP 6B-27-17)	ORIGIN UNKNOWN
121	284815.31	4256912.38	3/4" IRON ROD NO CAP DOWN 0.8' BENT TIED SPIN HOLE FOUND ON 07/27/2004 (POSSIBLE ODOT MONUMENT MAP 6B-27-17)	ORIGIN UNKNOWN
122	284744.82	4256482.67	3/4" IRON ROD NO CAP FOUND ON 07/27/2004 (POSSIBLE ODOT MONUMENT MAP 6B-27-17)	ORIGIN UNKNOWN
5005	284557.49	4256643.69	SET 5/8" X 30" IRON ROD WITH YELLOW PLASTIC CAP INSCRIBED "OTAK INC." ON 08/26/2008	-----
5006	284579.62	4256727.85	SET 5/8" X 30" IRON ROD WITH YELLOW PLASTIC CAP INSCRIBED "OTAK INC." ON 08/26/2008	-----
5007	284585.39	4256816.73	SET 5/8" X 30" IRON ROD WITH YELLOW PLASTIC CAP INSCRIBED "OTAK INC." ON 08/26/2008	-----
5008	284625.88	4256816.63	SET 5/8" X 30" IRON ROD WITH YELLOW PLASTIC CAP INSCRIBED "OTAK INC." ON 08/26/2008	-----
5009	284644.03	4257076.62	SET 5/8" X 30" IRON ROD WITH YELLOW PLASTIC CAP INSCRIBED "OTAK INC." ON 08/26/2008	-----
5010	284539.44	4257510.85	SET 5/8" X 30" IRON ROD WITH YELLOW PLASTIC CAP INSCRIBED "OTAK INC." ON 08/26/2008	-----
5011	284594.22	4257535.33	SET 5/8" X 30" IRON ROD WITH YELLOW PLASTIC CAP INSCRIBED "OTAK INC." ON 08/26/2008	-----
5012	284701.08	4257375.59	SET 5/8" X 30" IRON ROD WITH YELLOW PLASTIC CAP INSCRIBED "OTAK INC." ON 08/26/2008	-----
5013	284774.48	4257174.74	SET 5/8" X 30" IRON ROD WITH YELLOW PLASTIC CAP INSCRIBED "OTAK INC." ON 08/26/2008	-----

**POST CONSTRUCTION RECORD OF SURVEY**

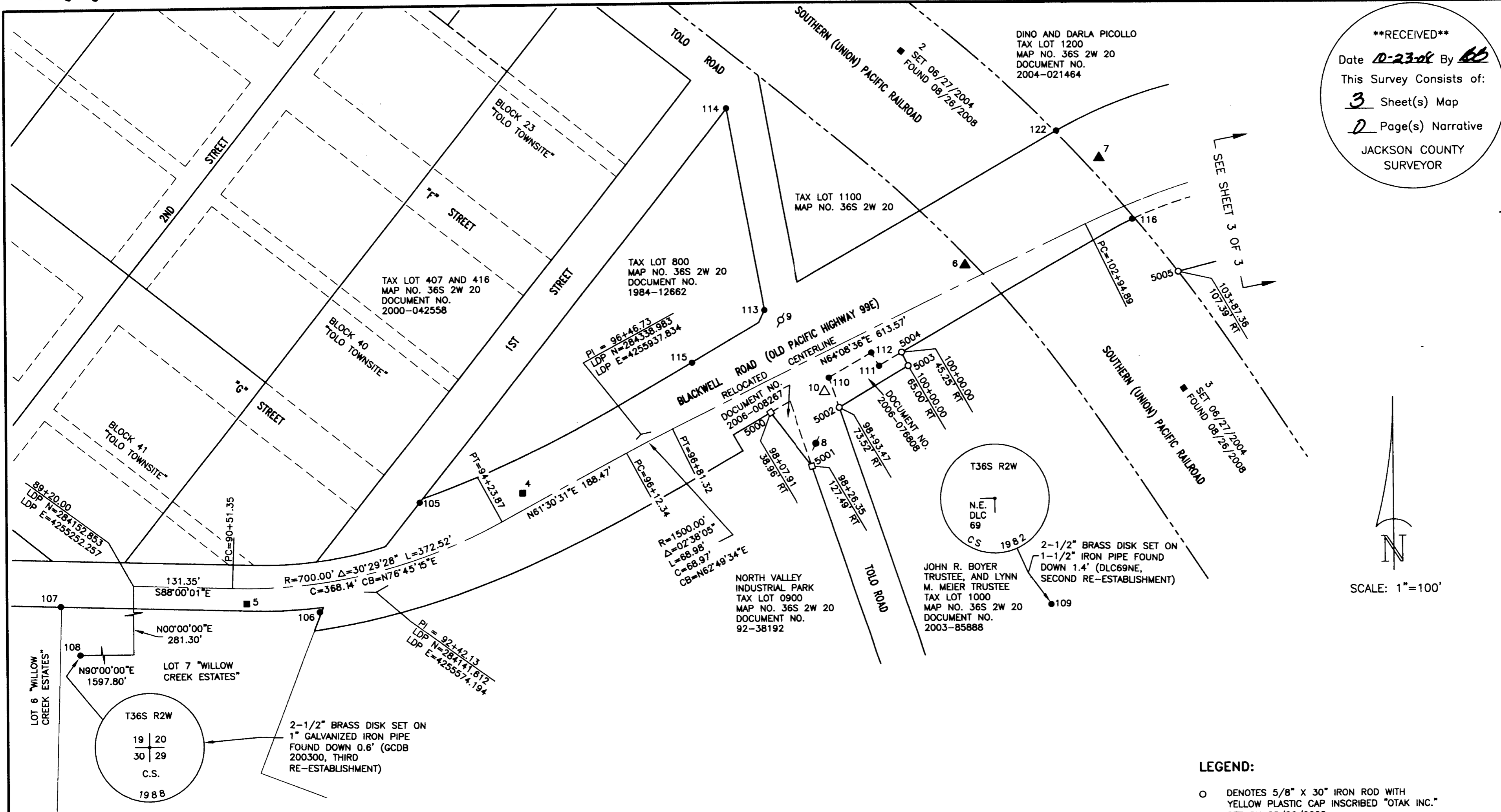
BLACKWELL ROAD RAILROAD OVERCROSSING BRIDGE  
 LOCATED IN THE SOUTH 1/2 OF SECTION 20  
 TOWNSHIP 36 SOUTH, RANGE 2 WEST WILLAMETTE  
 MERIDIAN, JACKSON COUNTY, OREGON



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FOR: JACKSON COUNTY, OREGON



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John A. Carlson  
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FOR: JACKSON COUNTY, OREGON

**POST CONSTRUCTION RECORD OF SURVEY**

BLACKWELL ROAD RAILROAD OVERCROSSING BRIDGE  
 LOCATED IN THE SOUTH 1/2 OF SECTION 20  
 TOWNSHIP 36 SOUTH, RANGE 2 WEST WILLAMETTE  
 MERIDIAN, JACKSON COUNTY, OREGON

PROJECT CONTROL, RECOVERED AND ESTABLISHED MONUMENTS

NO.	LOCAL DATUM PLANE COORDINATE		DESCRIPTION	SURVEY REFERENCE
	NORTHING	EASTING		
2	284849.789	4256276.319	SET 5/8" IRON ROD WITH ALUMINUM CAP INSCRIBED "OTAK INC." FOR CONTROL POINT ON 06/27/2004	-----
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8	284333.310	4256160.424	SET PK NAIL WITH 1-1/2" BRASS WASHER INSCRIBED "OTAK CONTROL" FOR CONTROL POINT ON 06/27/2004	-----
9	284495.270	4256113.964	SET PK NAIL WITH 1-1/2" BRASS WASHER INSCRIBED "OTAK CONTROL" FOR CONTROL POINT ON 08/26/2008	-----
10	284401.558	4256172.451	SET 5/8" X 30" IRON ROD WITH RED PLASTIC CAP INSCRIBED "OTAK CONTROL" FOR CONTROL POINT ON 08/26/2008	-----
105	284258.96	4255632.77	5/8" IRON ROD WITH YELLOW PLASTIC CAP INSCRIBED "D.W. EDWARDS LS 741" FOUND ON 07/27/2004	SN 10384
106	284115.95	4255499.16	1/2" IRON PIPE NO CAP FOUND ON 07/27/2004	SN 1763
107	284126.52	4255155.80	1/2" IRON PIPE NO CAP FOUND ON 07/27/2004	SN 1763
108	283871.45	4253654.48	2-1/2" BRASS DISK (SEE DETAIL ABOVE) DOWN 0.6' FOUND ON 07/27/2004 (THIRD RE-ESTABLISHMENT)	GCDB 200300
109	284118.58	4256471.98	2-1/2" BRASS DISK NE CORNER DLC 69 (SEE DETAIL ABOVE) DOWN 1.4' FOUND ON 07/27/2004	DLC69NE
110	284419.28	4256178.25	1" IRON PIPE NO CAP BENT NORTH-NORTHEAST TIED SPIN HOLE DOWN 1.6' FOUND ON 07/27/2004	SN 356
111	284434.66	4256245.03	5/8" IRON ROD NO CAP BENT SOUTH TIED SPIN HOLE DOWN 1.0' FOUND ON 07/27/2004	SN 356
112	284452.08	4256234.87	5/8" IRON ROD NO CAP BENT WEST TIED SPIN HOLE DOWN 0.5' FOUND ON 07/27/2004	SN 356
113	284508.76	4256092.36	1" IRON PIPE NO CAP BENT SOUTH TIED SPIN HOLE DOWN 0.6' FOUND ON 07/27/2004	SN 119
114	284775.96	4256043.11	1" IRON PIPE NO CAP DOWN 0.1' FOUND ON 07/27/2004	SN 119
115	284440.64	4255995.36	3/4" IRON ROD NO CAP BENT SOUTH TIED SPIN HOLE DOWN 0.6' FOUND ON 07/27/2004 (POSSIBLE ODOT MONUMENT MAP 6B-27-17)	ORIGIN UNKNOWN
116	284627.99	4256583.02	5/8" IRON ROD NO CAP DOWN 0.1' FOUND ON 07/27/2004 (POSSIBLE ODOT MONUMENT MAP 6B-27-17)	ORIGIN UNKNOWN
122	284744.82	4256482.67	3/4" IRON ROD NO CAP FOUND ON 07/27/2004 (POSSIBLE ODOT MONUMENT MAP 6B-27-17)	ORIGIN UNKNOWN
5000	284374.18	4256099.78	SET 5/8" X 30" IRON ROD WITH 2" ALUMINUM CAP INSCRIBED "OTAK INC." ON 08/26/2008	-----
5001	284302.55	4256154.99	SET 5/8" X 30" IRON ROD WITH 2" ALUMINUM CAP INSCRIBED "OTAK INC." ON 08/26/2008	-----
5002	284380.39	4256191.86	SET 5/8" X 30" IRON ROD WITH YELLOW PLASTIC CAP INSCRIBED "OTAK INC." ON 08/26/2008	-----
5003	284434.52	4256284.00	SET 5/8" X 30" IRON ROD WITH YELLOW PLASTIC CAP INSCRIBED "OTAK INC." ON 08/26/2008	-----
5004	284452.29	4256275.39	SET 5/8" X 30" IRON ROD WITH YELLOW PLASTIC CAP INSCRIBED "OTAK INC." ON 08/26/2008	-----
5005	284557.49	4256643.69	SET 5/8" X 30" IRON ROD WITH YELLOW PLASTIC CAP INSCRIBED "OTAK INC." ON 08/26/2008	-----

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