

RECEIVED
 3-13-07
 This survey consists of
 2 sheets of map
 0 pages of narrative
JACKSON COUNTY SURVEYOR

LEGEND

- △ DENOTES CONTROL MONUMENT SET AS SHOWN
- DENOTES MONUMENT FOUND AS SHOWN
- ★ DENOTES CONTROL MONUMENT FOUND AS SHOWN
- ⊙ DENOTES BENCH MARK FOUND AS SHOWN
- OSP DENOTES OREGON STATE PLANE
- LDP DENOTES LOCAL DATUM PLANE. SEE NARRATIVE
- DENOTES GPS MEASUREMENT
- DENOTES TERRESTRIAL MEASUREMENT

NGS STATION "PACIFIC SURVEY"
 PID A12003
 NAD 83(1998)
 LATITUDE=42°20'08.42510"N } HELD
 LONGITUDE=122°52'28.46693"W }
 OSP NORTHING=252922.846
 OSP EASTING=4279292.653
 LDP NORTHING=252938.526
 LDP EASTING=4279557.953
 ELEVATION=1344.71*

PROJECT CONTROL

POINT NO.	LOCAL DATUM PLANE			DESCRIPTION
	NORTHING	EASTING	ELEVATION	
1	254920.905	4279047.682	1337.94	SET PK NAIL WITH 1-1/2" BRASS WASHER INSCRIBED "OTAK CONTROL"
2	254918.709	4278819.374	1338.86	SET PK NAIL WITH 1-1/2" BRASS WASHER INSCRIBED "OTAK CONTROL"
3	254980.725	4279256.452	1337.27	FOUND 2" BRASS CAP STAMPED "T37S, R1W, DLC, REF. MON., NNE 42, C.S., 1999"
4	254904.886	4279576.441	1335.86	SET PK NAIL WITH 1-1/2" BRASS WASHER INSCRIBED "OTAK CONTROL"
5	254891.386	4279793.049	1334.18	SET PK NAIL WITH 1-1/2" BRASS WASHER INSCRIBED "OTAK CONTROL"
6	255215.277	4279339.713	1325.68	SET 5/8" X 30" IRON ROD WITH RED PLASTIC CAP INSCRIBED "OTAK CONTROL"
7	255438.969	4279390.886	1321.92	SET 5/8" X 30" IRON ROD WITH RED PLASTIC CAP INSCRIBED "OTAK CONTROL"
8	254977.850	4279405.148	1332.96	SET PK NAIL WITH 1-1/2" BRASS WASHER INSCRIBED "OTAK CONTROL"
9	254912.238	4279397.976	1336.81	SET PK NAIL WITH 1-1/2" BRASS WASHER INSCRIBED "OTAK CONTROL"
10	254877.843	4280051.103	1333.63	SET PK NAIL WITH 1-1/2" BRASS WASHER INSCRIBED "OTAK CONTROL"
11	254685.727	4279316.533	1337.42*	SET PK NAIL WITH 1-1/2" BRASS WASHER INSCRIBED "OTAK CONTROL"
12	254486.243	4279329.056	1335.43*	SET 5/8" X 30" IRON ROD WITH RED PLASTIC CAP INSCRIBED "OTAK CONTROL"
13	255026.858	4279536.472	1324.06*	SET PK NAIL WITH 1-1/2" BRASS WASHER INSCRIBED "OTAK CONTROL"
14	254904.957	4279478.973	1322.06*	SET 5/8" X 30" IRON ROD WITH RED PLASTIC CAP INSCRIBED "OTAK CONTROL"
15	254810.645	4279586.434	1326.86*	SET PK NAIL WITH 1-1/2" BRASS WASHER INSCRIBED "OTAK CONTROL"
16	254968.856	4279449.441	1316.43*	SET 5/8" X 30" IRON ROD WITH RED PLASTIC CAP INSCRIBED "OTAK CONTROL"
17	254996.444	4279350.342	1325.14*	SET 5/8" X 30" IRON ROD WITH RED PLASTIC CAP INSCRIBED "OTAK CONTROL"
D134	255015.24	4278776.69	1339.439	FOUND 2-3/4" BRASS DISK-CITY OF MEDFORD BENCH MARK

* DENOTES GPS AND/OR TRIGONOMETRICALLY MEASURED ELEVATION

NARRATIVE

PURPOSE OF SURVEY
 THE PURPOSE OF THIS SURVEY WAS TO ESTABLISH PROJECT CONTROL FOR MAPPING AND RIGHT OF WAY ACQUISITION PURPOSES FOR A PROPOSED OTIA BRIDGE REPLACEMENT PROJECT. 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 NGS STATION "PACIFIC SURVEY" (PID A12003) AND OTHER ONSITE CONTROL.

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). 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 "PACIFIC SURVEY". THE MAXIMUM 95% CONFIDENCE REGION ERROR FOR ANY CONTROL POINT WAS +/- 0.06 FEET IN LATITUDE, AND +/- 0.05 FEET IN LONGITUDE WITH RESPECT TO THE CONSTRAINED STATION.

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, MULTIPLY THE LDP COORDINATES BY THE PROJECT SCALE OF 0.9999380076.

ELEVATIONS
 THE ELEVATIONS OF CONTROL POINTS 1 THROUGH 10 WERE DETERMINED BY DIFFERENTIAL LEVELING USING A LEICA NA2002 ELECTRONIC LEVEL. THE BASIS OF ELEVATIONS FOR THIS PROJECT IS CITY OF MEDFORD BENCH MARK NO. D134, A BRASS DISK FLUSH IN A CONCRETE SIDEWALK AT THE NORTHEAST CORNER OF RIVERSIDE AVENUE AND McANDREWS ROAD. THE CITY OF MEDFORD'S PUBLISHED ELEVATION OF 1339.439 FEET WAS HELD FOR THIS PROJECT.

JAC	9/2004
Calculated JAC	Date 10/2005
Drawn JVO	Date 11/2005
Checked	Date

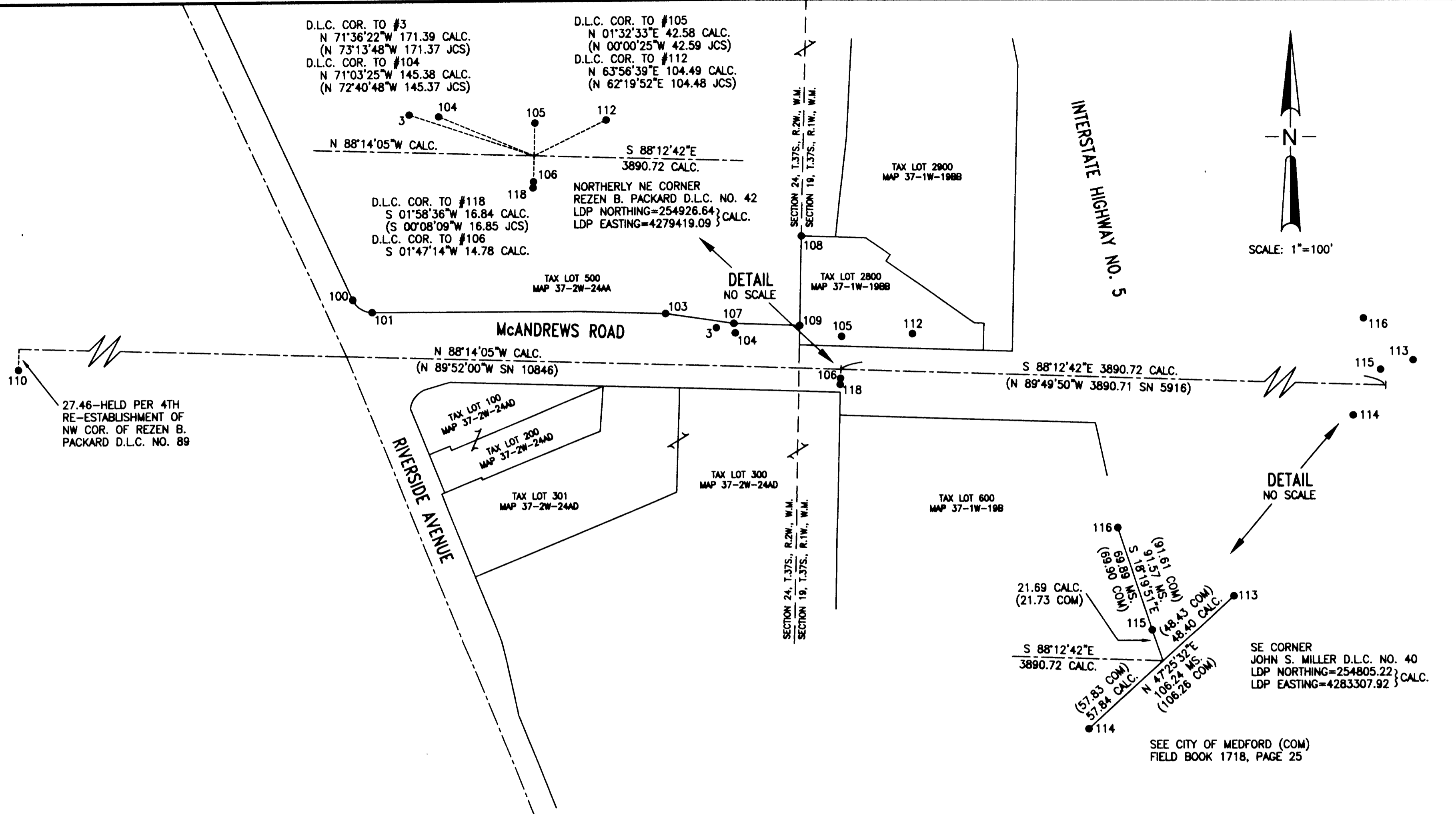
REVISIONS

REGISTERED PROFESSIONAL LAND SURVEYOR
John A. Carlson
 OREGON
 JULY 15, 1988
JOHN A. CARLSON
 2044
 RENEWS 12/31/08

**PRECONSTRUCTION RECORD OF SURVEY
 BEAR CREEK (McANDREWS ROAD) BRIDGE**
 NW1/4 SEC. 19, T.37S., R.1W., W.M.
 NE1/4 SEC. 24, T.37S., R.2W., W.M.
JACKSON COUNTY, OREGON
 FOR: CITY OF MEDFORD

otak Incorporated
 surveyors
 engineers
 planners
 17355 S.W. BOONES FERRY ROAD
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1 OF 2
 Sheet No.
12474
 Project No.



JAC	9/2004
Calculated	Date
JAC	10/2005
Drawn	Date
JVO	11/2005
Checked	Date

REVISIONS

REGISTERED PROFESSIONAL LAND SURVEYOR	
<i>John A. Carlson</i>	
OREGON JULY 18, 1988 JOHN A. CARLSON 2044	
RENEWS 12/31/05	

PRECONSTRUCTION RECORD OF SURVEY
BEAR CREEK (McANDREWS ROAD) BRIDGE
NW1/4 SEC. 19, T.37S., R.1W., W.M.
NE1/4 SEC. 24, T.37S., R.2W., W.M.
JACKSON COUNTY, OREGON
FOR: CITY OF MEDFORD

RECOVERED MONUMENTS

POINT NO.	LOCAL DATUM PLANE		REFERENCE	DESCRIPTION
	NORTHING	EASTING		
3	254980.725	4279256.452	REF. 1	2" BRASS CAP STAMPED "T37S, R1W, DLC, REF. MON., NNE 42, C.S., 1999"
100	255018.96	4278782.43	SN 10846	5/8" IRON ROD W/YELLOW PLASTIC CAP INSCRIBED "KAISER RLS 803"
101	255002.98	4278807.64	SN 10846	1-1/4" BRASS CAP STAMPED "KAISER RLS 803"
103	254999.26	4279190.14	SN 10846	1-1/4" BRASS CAP STAMPED "KAISER RLS 803"
104	254973.84	4279281.58	REF. 1	2-3/4" BRASS CAP STAMPED "STATE HIGHWAY DEPT., D54, B.M."
105	254969.21	4279420.23	REF. 1	.38 CALIBER SHELL CASING
106	254911.87	4279418.62	ORIGIN UNK.	.38 CALIBER SHELL CASING
107	254986.01	4279279.84	SN 10846	5/8" IRON ROD W/YELLOW PLASTIC CAP (CAP DESTROYED)
108	255098.60	4279368.29	SN 10846	5/8" IRON ROD W/YELLOW PLASTIC CAP INSCRIBED "KAISER RLS 803"
109	254983.26	4279365.78	SN 10846	5/8" IRON ROD W/YELLOW PLASTIC CAP INSCRIBED "KAISER RLS 803"
110	254934.80	4278263.17	REF. 2	.38 CALIBER SHELL CASING
112	254972.54	4279512.96	REF. 1	2" BRASS CAP STAMPED "AZ. MK., C.S., 1999"
113	254837.96	4283343.56	COM	.38 CALIBER SHELL CASING
114	254766.09	4283265.32	COM	.38 CALIBER SHELL CASING
115	254825.80	4283301.10	COM	.38 CALIBER SHELL CASING
116	254892.14	4283279.12	COM	.38 CALIBER SHELL CASING
118	254909.81	4279418.50	REF. 1	TACK IN LEAD PLUG

REF. 1 - THIRD RE-ESTABLISHMENT, NNE COR., DLC NO. 42, JACKSON COUNTY SURVEY RECORDS
REF. 2 - FOURTH RE-ESTABLISHMENT, NW COR., DLC NO. 89, JACKSON COUNTY SURVEY RECORDS

- LEGEND
- DENOTES MONUMENT FOUND AS SHOWN
 - LDP DENOTES LOCAL DATUM PLANE. SEE NARRATIVE ON SHEET 1
 - MS. DENOTES MEASURED VALUE
 - CALC. DENOTES CALCULATED VALUE
 - COM DENOTES CITY OF MEDFORD
 - JCS DENOTES JACKSON COUNTY SURVEYOR
 - SN DENOTES SURVEY NO., JACKSON COUNTY SURVEY RECORDS



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