

# MONUMENT RECOVERY AND CONTROL SURVEY

OF A PORTION OF  
SW 1/4 & SE 1/4 SEC 1, AND  
NW 1/4, NE 1/4, SW 1/4, & SE 1/4 SEC 12  
TOWNSHIP 37 SOUTH, RANGE 2 WEST, W.M.  
CENTRAL POINT, JACKSON COUNTY, OREGON  
MAY 4, 2016

**FILED**  
Date 5/11/16 By PB  
This Survey Consists Of:  
4 sheet(s) Map  
8 page(s) Narrative  
JACKSON COUNTY  
SURVEYOR

**NARRATIVE:**

**THE PURPOSE OF THIS SURVEY IS:**

TO RE-ESTABLISH THE CENTERLINE OF TABLE ROCK ROAD AND THE CENTERLINE OF BIDDLE ROAD. ALSO, THE PURPOSE IS TO PERPETUATE THE LOCATION OF FOUND MONUMENTS OF RECORD THAT MAY BE DESTROYED BY PROJECT CONSTRUCTION PER O.R.S. 209.155(b). SEE SHEET 4, UNDER BOUNDARY PROCEDURE, FOR THE CENTERLINE RESOLUTION NARRATIVES.

**HORIZONTAL DATUM:**

THE HORIZONTAL DATUM IS NAD 83 (2011) EPOCH 2010.00 USING THE OREGON REAL-TIME GNSS (ORGN) REFERENCE STATION POSITIONS AND THE OREGON COORDINATE REFERENCE SYSTEM GRANTS PASS-ASHLAND ZONE.

**BASIS OF BEARINGS:**

THE BASIS OF BEARINGS IS NAD 83 (2011) EPOCH 2010.00 USING THE ORGN REFERENCE STATION POSITIONS AND THE OREGON COORDINATE REFERENCE SYSTEM GRANTS PASS-ASHLAND ZONE.

**HORIZONTAL ADJUSTMENT:**

STATIC GPS OBSERVATIONS WERE MADE ON NOVEMBER 19 AND 20, 2015 USING TRIMBLE DUAL FREQUENCY RECEIVERS. RINEX DATA WAS DOWNLOADED FROM THE ORGN REFERENCE STATIONS. THE VECTORS WERE PROCESSED USING TRIMBLE BUSINESS CENTER. TERRESTRIAL OBSERVATIONS WERE MADE USING A TRIMBLE S6-VX TOTAL STATION ON NOVEMBER 19, 2015. THE PROCESSED GPS VECTORS FROM STATIC OBSERVATIONS AND THE TERRESTRIAL OBSERVATIONS WERE ADJUSTED USING STAR\*NET LEAST SQUARES ADJUSTMENT PROGRAM. THE NETWORK WAS CONSTRAINED TO ODOT'S REAL TIME REFERENCE STATIONS NAD 83(2011) EPOCH 2010.00 POSITIONS.

**VERTICAL DATUM:**

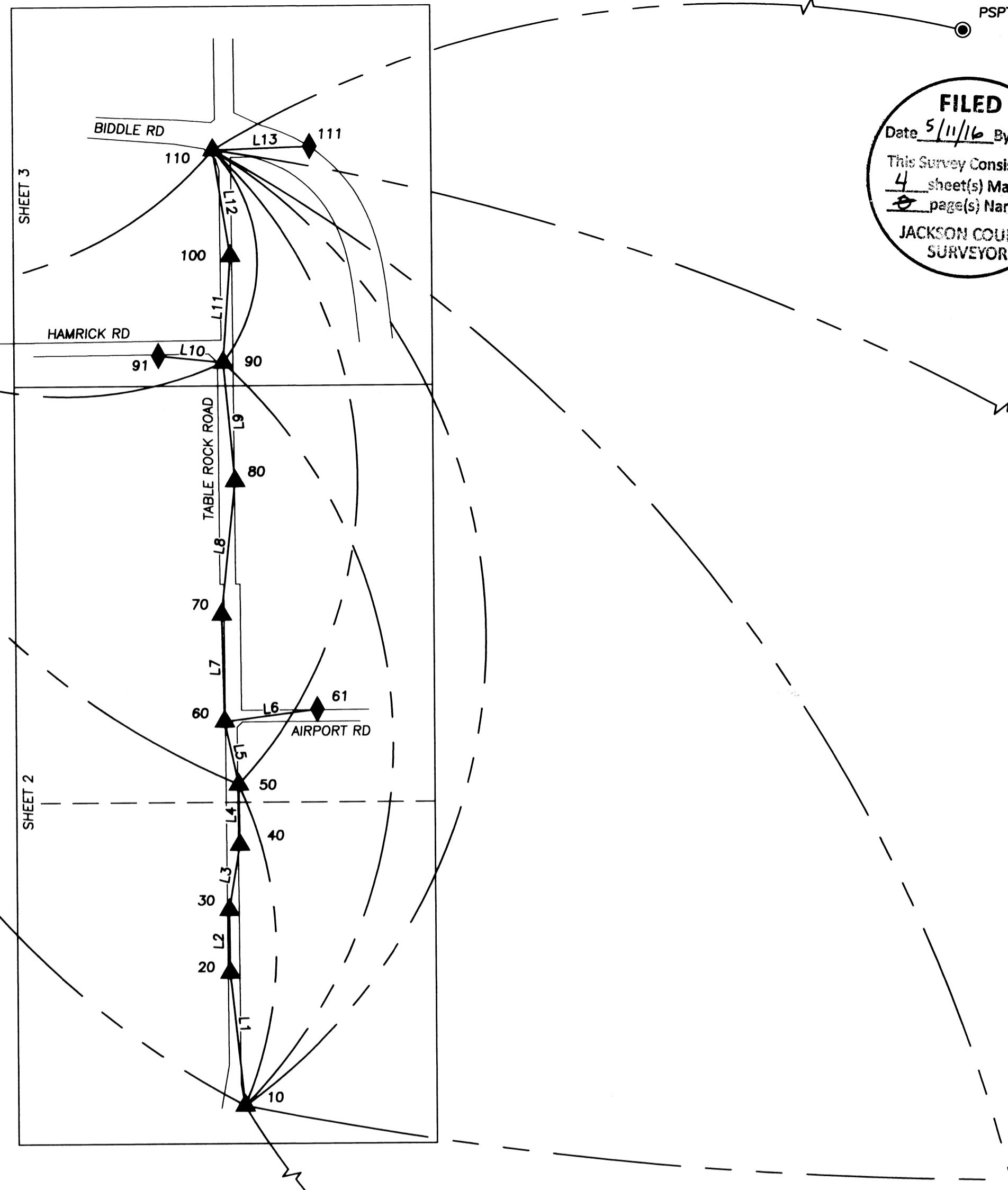
THE VERTICAL DATUM IS NGVD 29 HOLDING THE PUBLISHED ELEVATION FOR STATION 111 (AKA - MONUMENT NUMBER 213 ON THIS SURVEY) PER CITY OF MEDFORD MAPPING CONTROL FILED UNDER SURVEY NUMBER 15965, JACKSON COUNTY SURVEY RECORDS, SHOWN ON SHEET 2 OF 4. THE PUBLISHED ELEVATION IS 389.03 METERS (1276.34 US SURVEY FEET).

**VERTICAL ADJUSTMENT:**

DIFFERENTIAL LEVELS WERE RUN IN CLOSED CIRCUITS ON NOVEMBER 18, 2015 USING A LEICA DNA03 ELECTRONIC LEVEL. THE RAW FIELD CLOSURES WERE 0.005 FEET OR LESS. A STAR\*NET LEAST SQUARE ADJUSTMENT WAS PERFORMED ON THE DIFFERENTIAL DATA.

**TRAVERSE**

LINE	BEARING	DISTANCE
L1	N03°38'39"W	690.06
L2	N00°28'43"W	325.70
L3	N06°01'16"E	339.56
L4	N00°03'19"W	312.16
L5	N06°35'32"W	331.17
L6	N83°39'22"E	466.49
L7	N00°13'57"W	557.69
L8	N02°36'31"E	688.42
L9	N03°50'36"W	614.75
L10	S80°07'09"E	338.55
L11	N04°04'31"E	551.14
L12	N05°26'34"W	567.93
L13	S84°14'29"E	526.72



**LEGEND:**

- ▲ SET PRIMARY CONTROL, SEE TABLE FOR DESCRIPTION.
- ◆ SET SECONDARY CONTROL, SEE TABLE FOR DESCRIPTION.
- OREGON REAL-TIME GNSS REFERENCE STATION.
- ▲-● STATIC GPS OBSERVATION

**FOUND SURVEY MONUMENTS - NE 5TH ST**

PT	NAD 83 (2011) LATITUDE	NAD 83 (2011) LONGITUDE	NAVD 88 ELLIP ELEV.	OCRS NAD(83)* NORTHING	OCRS NAD(83)* EASTING	NGVD 29 ELEV	DESCRIPTION
10	42°21'52.505330"	122°53'06.865848"	1217.35	224294.0980	285150.2081	1293.08	SET 5/8" IRON ROD WITH BLUE PLASTIC CAP "BLUEDOT CONTROL"
20	42°21'59.309889"	122°53'07.401712"	1208.74	224982.7599	285106.3481	1284.47	SET 5/8" IRON ROD WITH BLUE PLASTIC CAP "BLUEDOT CONTROL"
30	42°22'02.526983"	122°53'07.415096"	1207.79	225308.4442	285103.6274	1283.50	SET 5/8" IRON ROD WITH BLUE PLASTIC CAP "BLUEDOT CONTROL"
40	42°22'05.860605"	122°53'06.916953"	1207.51	225646.1277	285139.2459	1283.21	SET 5/8" IRON ROD WITH BLUE PLASTIC CAP "BLUEDOT CONTROL"
50	42°22'08.943983"	122°53'06.899048"	1206.14	225958.2873	285138.9449	1281.85	SET 5/8" IRON ROD WITH BLUE PLASTIC CAP "BLUEDOT CONTROL"
60	42°22'12.195477"	122°53'07.382388"	1205.07	226287.2682	285100.9257	1280.77	SET SPIKE INSCRIBED "SURVEY MARKER"
61	42°22'12.680431"	122°53'01.202941"	1205.45	226338.8125	285564.5570	-	SET 1-1/4" COPPER DISC STAMPED "BLUEDOT GROUP"
70	42°22'17.704174"	122°53'07.373409"	1202.92	226844.9570	285098.6614	1278.63	SET 5/8" IRON ROD WITH BLUE PLASTIC CAP "BLUEDOT CONTROL"
80	42°22'24.495364"	122°53'06.907752"	1201.35	227532.6626	285129.9936	1277.06	SET 5/8" IRON ROD WITH BLUE PLASTIC CAP "BLUEDOT CONTROL"
90	42°22'30.556004"	122°53'07.413611"	1199.58	228146.0253	285088.7878	1275.28	SET 5/8" IRON ROD WITH BLUE PLASTIC CAP "BLUEDOT CONTROL"
91	42°22'31.147179"	122°53'11.852716"	1197.91	228204.1208	284755.2568	-	SET 1-1/4" COPPER DISC STAMPED "BLUEDOT GROUP"
100	42°22'35.984060"	122°53'06.853246"	1198.39	228695.7687	285127.9544	1274.09	SET 5/8" IRON ROD WITH BLUE PLASTIC CAP "BLUEDOT CONTROL"
110	42°22'41.571321"	122°53'07.531189"	1201.34	229261.1401	285074.0861	1277.07	SET 1-1/4" COPPER DISC STAMPED "BLUEDOT GROUP"
111	42°22'41.021949"	122°53'00.553188"	1220.10	229208.2889	285598.1510	-	SET 5/8" IRON ROD WITH BLUE PLASTIC CAP "BLUEDOT CONTROL"
ASHL	42°10'50.472990"	122°40'12.552410"	1998.51	157652.5835	343804.8729	-	OREGON REAL-TIME GPS STATION ID "ASHL" ASHLAND
CTPT	42°22'36.084730"	122°53'38.195000"	1217.11	228693.6797	282775.3238	-	OREGON REAL-TIME GPS STATION ID "CTPT" CENTRAL POINT
KFRC	42°13'27.002630"	121°47'01.912720"	4070.19	176614.5913	583760.3447	-	OREGON REAL-TIME GPS ID "KFRC" KALAMATH FALLS RHINE CROSS
PSPT	42°45'17.427150"	122°29'22.164660"	2538.42	367342.7669	390695.1635	-	OREGON REAL-TIME GPS STATION ID "PSPT" PROSPECT

\*OREGON COORDINATE REFERENCE SYSTEM (OCRS); GRANTS PASS-ASHLAND ZONE  
T37S R2W 01C, 01D, 12A, 12B, 12C, 12D

**SHEET INDEX**

SHEET 1	NARRATIVE CONTROL NETWORK CONTROL COORDINATE TABLE SHEET LAYOUT
SHEET 2-3	FOUND MONUMENTS LOCATIONS
SHEET 4	REFERENCE DOCUMENTS FOUND MONUMENT COORDINATE TABLE BOUNDARY PROCEDURE



NOT TO ANY SCALE

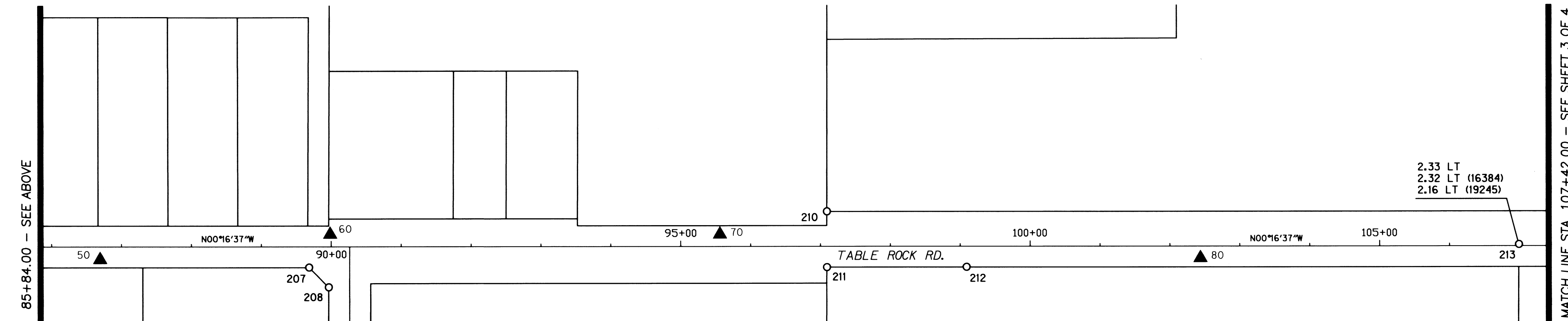
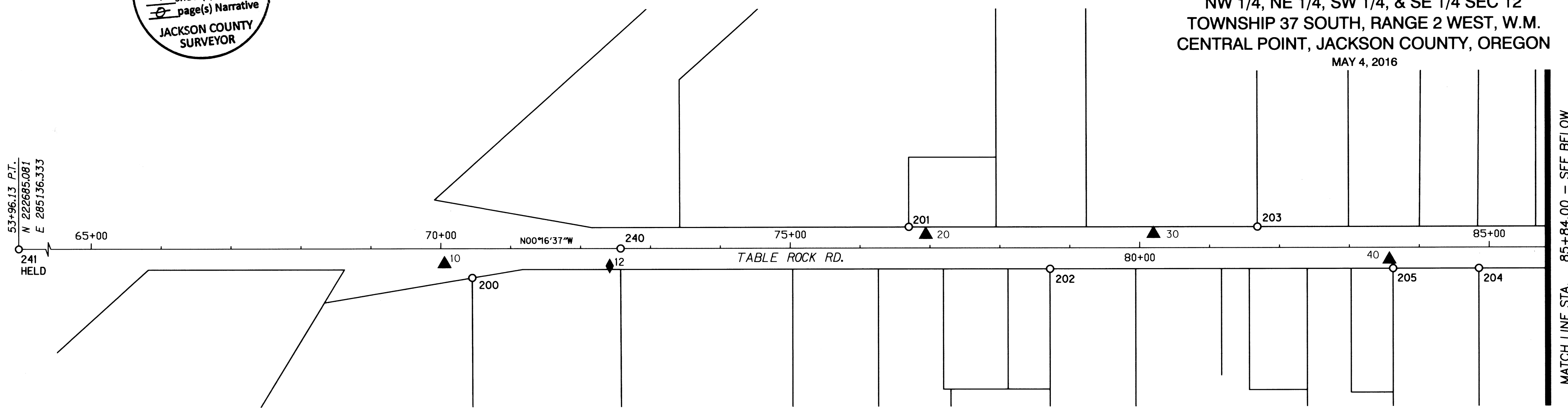
**SURVEYED FOR:**  
JACKSON COUNTY ROADS  
200 ANTELOPE ROAD  
WHITE CITY, OR 97503

REGISTERED PROFESSIONAL LAND SURVEYOR  
*Robert C. Lennox*  
ROBERT C. LENNOX  
2886  
RENEWAL: 12-31-16

SHEET 1 OF 4  
**bluedot group**  
land surveying & mapping  
11700 sw 67th ave  
portland, or 97223  
v. 503.624.0108  
f. 503.624.9058

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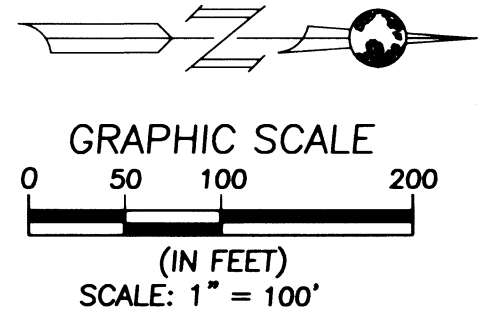


MATCH LINE STA. 85+84.00 - SEE ABOVE

MATCH LINE STA. 107+42.00 - SEE SHEET 3 OF 4

- LEGEND:**
- ▲ SET PRIMARY CONTROL, SEE TABLE (SHEET 1)
  - ◆ SET SECONDARY CONTROL, SEE TABLE (SHEET 1)
  - FOUND MONUMENT, SEE TABLE (SHEET 4)
  - ( ) PER JACKSON COUNTY SURVEY RECORDS

**NOTE:**  
 SEE SHEET 4 FOR MONUMENT POSITIONS & DESCRIPTIONS



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*Robert C. Lennox*  
 OREGON  
 JULY 14, 1998  
 ROBERT C. LENNOX  
 2886  
 RENEWAL: 12-31-16

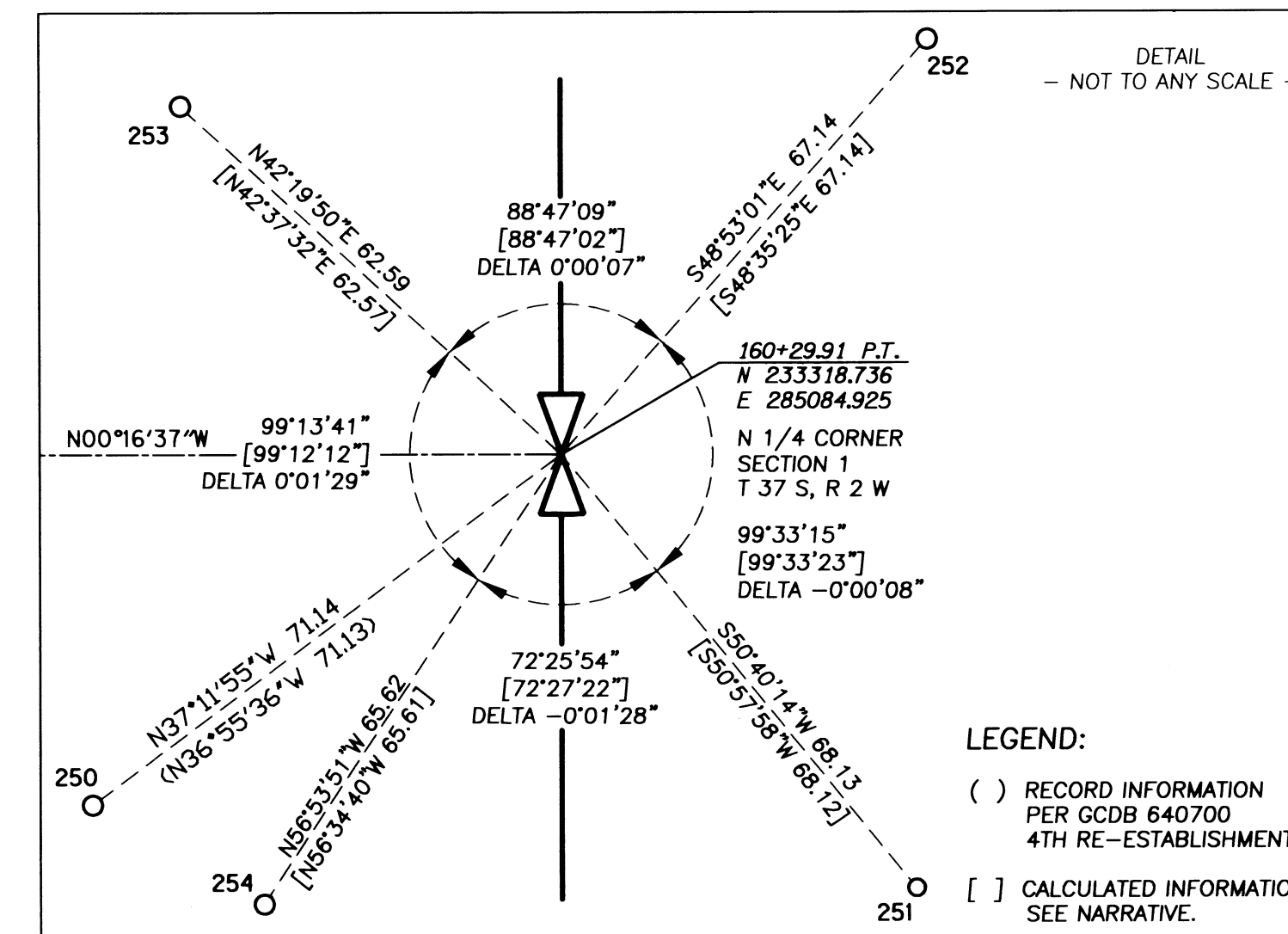
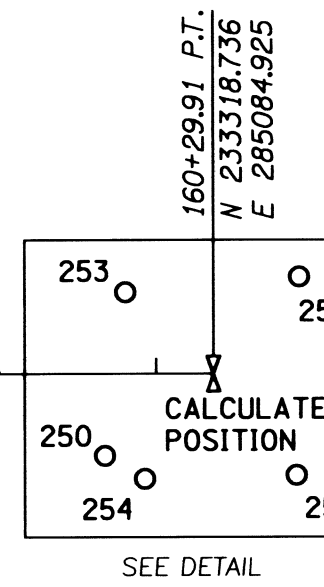
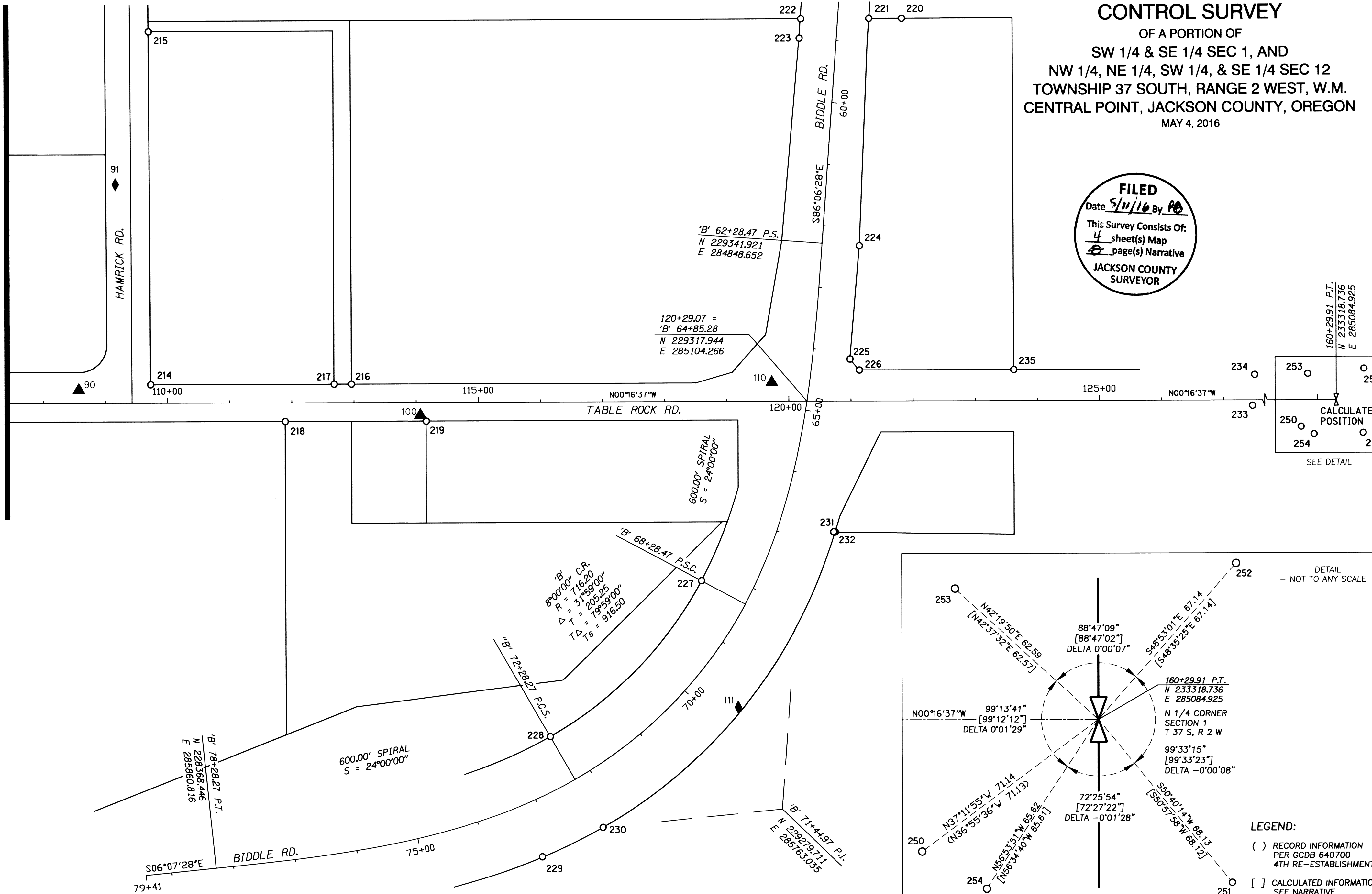
SHEET 2 OF 4  
**bluedot group**  
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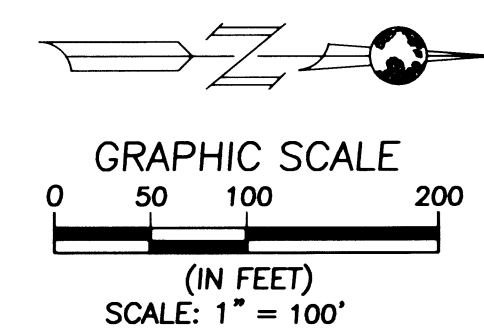
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MATCH LINE STA. 107+42.00 - SEE SHEET 2 OF 4



NOTE:  
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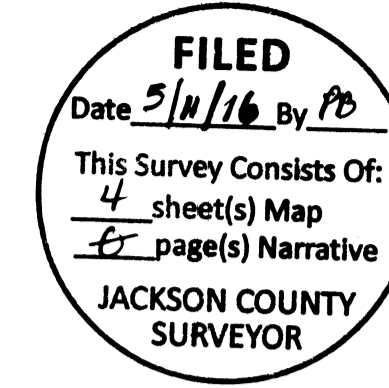
REGISTERED  
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 ROBERT C. LENNOX  
 2886  
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SHEET 3 OF 4  
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PROJECT NO.: 2015016

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MAY 4, 2016



**JACKSON COUNTY REFERENCE DOCUMENTS:**

**SURVEY NUMBERS:**

0183, 0442, 0664, 1488, 1687, 2287, 4822, 5116, 5428, 7367, 9534, 9620, 11421, 15965 (COM Mapping Control), 16384, 16429, 17423, 17877 (AFFIDAVIT OF CORRECTION), 18013, 19245, 21198, 21244

**PARTITION PLATS:**

PP 9317, PP 9335, PP 11373, PP 83-1994 (SN 14155), PP 60-2004 (SN 18447), PP 68-2007 (SN 19820)

**SUBDIVISIONS:**

CENTRAL POINT EAST SUBDIVISION, PH 3 (SN 16771)  
FEDERAL WAY BUSINESS PARK, PHASE 1 (SN 20188)  
GARDEN ACRES (SR/65)  
HAMRICK BUSINESS PARK (SN 18358)  
MODOC SUBDIVISION, PHASE 1 (SN 18795)  
TRIANGLE INDUSTRIAL PARK SUBDIVISION (SN 13641)

**ODOT DRAWING NOS:**

1A-18-30 (SN 21244)  
7B-34-14  
8B-8-23  
9B-11-8 (SN 7434)

**BOUNDARY PROCEDURE:**

**NORTH 1/4 CORNER SECTION 1, TOWNSHIP 37 S, RANGE 2 WEST, W.M.**

THE NORTH 1/4 CORNER WAS DESTROYED BY ROAD CONSTRUCTION AND THE COUNTY REFERENCED THE MONUMENT UNDER T37N,R2W, GCDB640700. GCDB640700 ALSO ESTABLISHED REFERENCES TO THE REFERENCE MONUMENT USING BOLTS ON LIGHT POLES (REFERENCE BOLTS.) THE REFERENCE MONUMENT TO THE 1/4 CORNER IS NOW LOOSE, AND ITS POSITION IS UNRELIABLE. THE RECORD BEARINGS AND DISTANCES FROM THE REFERENCE MONUMENT WERE USED TO CALCULATED POSITIONS FOR EACH OF THE REFERENCE BOLTS AND THE 1/4 CORNER. FROM THESE CALCULATED POSITIONS, BEARINGS AND DISTANCES FROM THE REFERENCE BOLTS TO THE 1/4 CORNER MONUMENT LOCATION WERE THEN CALCULATED. THESE CALCULATED BEARINGS AND DISTANCES FROM EACH OF THE REFERENCE BOLTS WERE USED TO RE-ESTABLISH THE DESTROYED 1/4 SECTION MONUMENT. THE CALCULATED VS THE MEASURED BEARINGS AND DISTANCES, TOGETHER WITH ANGLES BETWEEN THE REFERENCE BOLTS AND THE 1/4 CORNER POSITION ARE SHOWN ON SHEET 3 OF 4 ON THIS SURVEY.

**CENTERLINE OF TABLE ROCK ROAD**

THE ROAD ESTABLISHMENT RECORDED IN COMMISSIONER'S JOURNAL 21, PAGE 340-342, DATED APRIL 24, 1929 DESCRIBE THE ROAD AS STARTING "1188 FEET SOUTH OF THE CENTER OF SECTION 1" BEING ABOUT 150 FEET NORTH OF THE CENTERLINE INTERSECTION WITH BIDDLE ROAD. THE ROAD ESTABLISHMENT FURTHER DESCRIBES THE CENTERLINE AS BEING "ON THE CENTER SECTION LINE DUE SOUTH TO AN INTERSECTION, EITHER WITH COUNTY ROAD KNOWN AS THE MIDWAY ROAD, OR WITH PACIFIC HIGHWAY."

PER THE COUNTY SURVEY FIELD NOTES, DATED IN 1929, THE ROAD CENTERLINE WAS ESTABLISHED FROM THE NORTH 1/4 CORNER OF SECTION 1, T37S, R2W TO THE SOUTH 1/4 CORNER OF SECTION 12, T37S, R2W. THE 1/4 CORNER COMMON TO SECTIONS 1 AND 12, T37S, R2W WAS NOT NOTED IN THE FIELD NOTES AND MAY HAVE BEEN LOST AT THE TIME OF THE SURVEY. THE FIRST RE-ESTABLISHMENT RECORD OF THE 1/4 CORNER COMMON TO SECTIONS 1 AND 12 IS DATED 1952 PER JACKSON COUNTY SURVEY OFFICE RECORDS. THIS FURTHER SUPPORTS THAT THIS 1/4 CORNER MAY HAVE BEEN LOST AT THE TIME OF THE ROAD ESTABLISHMENT IN 1929. FURTHERMORE, BOTH RECORD OF SURVEYS NUMBERED 16384 AND 19245 DO NOT HOLD THE 1/4 CORNER COMMON TO SECTIONS 1 AND 12. THE RE-ESTABLISHED 1/4 CORNER OF SECTION 1, T37N, R2W AND THE MONUMENT AT SOUTH 1/4 CORNER OF SECTION 12, T37S, R2W WAS HELD TO RE-ESTABLISH THE CENTER LINE OF TABLE ROCK ROAD FOR THIS SURVEY.

**BIDDLE ROAD**

THE RECORD DATA FROM THE OREGON DEPARTMENT OF TRANSPORTATION (ODOT) RIGHT OF WAY ROLL MAP NUMBER 9B-11-8 AND A "BEST FIT" WITH UNDISTURBED ODOT MONUMENTS WERE USED TO ESTABLISH THE CENTERLINE AS SHOWN.

**FOUND SURVEY MONUMENTS**

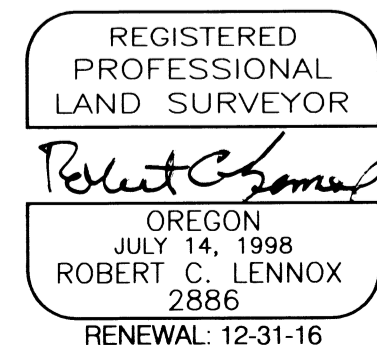
PT	NORTHING	EASTING	ALIGNMENT	STATION	OFFSET	DESCRIPTION
200	224333.974	285170.202	TRR	70+44.84	41.84 RT	5/8" IRON ROD - FLUSH (5428)
201	224958.457	285095.169	TRR	76+69.68	30.17 LT	5/8" IRON ROD - DOWN 0.5 FEET BELOW GRADE (1687)
202	225160.698	285154.374	TRR	78+71.63	30.01 RT	3/4" INSIDE DIAMETER PIPE - FLUSH (ORIGIN UNKNOWN)
203	225456.995	285092.984	TRR	81+68.22	29.95 LT	3/4" INSIDE DIAMETER PIPE - FLUSH (ORIGIN UNKNOWN)
204	225774.129	285151.297	TRR	84+85.07	29.90 RT	3/4" INSIDE DIAMETER PIPE - FLUSH (17423)
205	225651.448	285151.832	TRR	83+62.39	29.84 RT	3/4" INSIDE DIAMETER PIPE - 0.4 FEET BELOW GRADE (ORIGIN UNKNOWN)
206	226019.790	285150.141	TRR	87+30.73	29.93 RT	3/4" INSIDE DIAMETER PIPE - 0.5 FEET BELOW GRADE (17423)
207	226257.155	285148.697	TRR	89+68.10	29.63 RT	3/4" INSIDE DIAMETER PIPE - 0.5 FEET BELOW GRADE (17423)
208	226285.448	285176.871	TRR	89+96.26	57.94 RT	3/4" INSIDE DIAMETER PIPE - 0.7 FEET BELOW GRADE (17423)
209	226317.503	285828.642	TRR	-	-	2" BRASS CAP IN CONCRETE "LS 1913" (14155)
210	226997.794	285065.395	TRR	97+09.13	50.09 LT	5/8" IRON ROD WITH YELLOW PLASTIC CAP "TEMPLIN LS2359" (20188)
211	226998.124	285145.434	TRR	97+09.08	29.95 RT	5/8" IRON ROD - FLUSH (4822)
212	227198.086	285144.138	TRR	99+09.04	29.62 RT	5/8" IRON ROD WITH ALUMINUM CAP WITH PUNCH INSCRIBED "BOYDEN" (16384)
213	227988.008	285108.363	TRR	106+99.13	2.33 LT	BRASS DISK IN MONUMENT CASE "1/4 CORNER 1&12" (16384)
214	228261.684	285079.421	TRR	109+72.94	29.95 LT	5/8" IRON ROD - FLUSH (16429)
215	228256.959	284507.253	TRR	-	-	5/8" IRON ROD - 1.0 BELOW GRADE (16429)
216	228584.687	285077.857	TRR	112+95.95	29.95 LT	5/8" IRON ROD - FLUSH (16429)
217	228556.737	285078.038	TRR	112+68.00	29.91 LT	5/8" IRON WITH ORANGE PLASTIC CAP "HARDEY ENG & ASSOC." (16429)
218	228478.198	285138.394	TRR	111+89.17	30.07 RT	5/8" IRON ROD WITH ALUMINUM CAP WITH PUNCH INSCRIBED "BOYDEN" (16384)
219	228705.487	285137.594	TRR	114+16.46	30.37 RT	5/8" IRON ROD - BENT TO NORTH, TIED APPARENT LOCATION (664)
220	229469.323	284484.897	BID	58+56.91	102.42 LT	4" BRASS DISC IN CONCRETE "NE COR DLC NO. 56" - 0.2 ABOVE GRADE (Gov. Corner - DLC56NE)
221	229416.647	284485.119	BID	58+60.71	49.88 LT	5/8" IRON ROD WITH YELLOW PLASTIC CAP "CENTER + LS 1071" - FLUSH (17877)
222	229307.108	284485.742	BID	58+68.76	59.37 RT	5/8" IRON ROD WITH ORANGE PLASTIC CAP "D. MINNECI LS. 2349" - FLUSH (18358)
223	229304.617	284516.910	BID	59+00.03	59.74 RT	5/8" IRON ROD - BENT TO NORTH, TIED APPARENT LOCATION - FLUSH ODOT 9B-11-8 (SN 7434)
224	229401.755	284852.829	BID	62+28.58	59.98 LT	5/8" IRON ROD - 0.8 BELOW GRADE ODOT 9B-11-8 (SN 7434)
225	229387.039	285036.176	BID	64+10.22	60.12 LT	5/8" IRON ROD - BENT TO NORTH, TIED APPARENT LOCATION - FLUSH ODOT 9B-11-8 (SN 7434)
226	229402.047	285053.901	TRR	121+13.42	49.96 LT	5/8" IRON ROD - FLUSH ODOT 9B-11-8 (SN 7434)
227	229148.725	285393.738	BID	68+28.37	79.97 RT	5/8" IRON ROD WITH PUNCH - FLUSH ODOT 9B-11-8 A.K.A. (7434)
228	228905.659	285646.483	BID	72+28.28	79.98 RT	5/8" IRON ROD - BENT TO SOUTH, TIED APPARENT LOCATION - FLUSH ODOT 9B-11-8 (SN 7434)
229	228893.256	285841.306	BID	73+25.90	89.29 LT	5/8" IRON ROD WITH YELLOW PLASTIC CAP - ILLEGIBLE - 0.3 ABOVE GRADE (9620)
230	228990.863	285793.486	BID	72+28.35	89.93 LT	5/8" IRON ROD - FLUSH ODOT 9B-11-8 (SN 7434)
231	229361.317	285314.518	BID	66+74.26	87.53 LT	5/8" IRON ROD - BENT TO WEST, TIED APPARENT LOCATION - FLUSH (ORIGIN UNKNOWN)
232	229363.873	285314.708	BID	66+73.74	90.03 LT	5/8" IRON ROD WITH ORANGE PLASTIC CAP "D. MINNECI LS. 2349" - 0.2 ABOVE GRADE (21244)
233	230034.785	285109.501	TRR	127+45.88	8.70 RT	5/8" IRON ROD WITH ALUMINUM CAP "JACKSON COUNTY SURVEYOR" - FLUSH (19245)
234	230038.099	285059.900	TRR	127+49.43	40.89 LT	5/8" IRON ROD WITH YELLOW PLASTIC CAP "JACKSON CO. ROADS & PKS" - FLUSH (19245)
235	229650.519	285052.622	TRR	123+61.89	50.04 LT	5/8" IRON ROD WITH YELLOW PLASTIC CAP "JACKSON CO. ROADS & PKS" - FLUSH (19245)
240	224546.060	285127.258	TRR	72+57.13	0.08 LT	2" BRASS CAP INSCRIBED "+" - 0.5 BELOW GRADE (ORIGIN UNKNOWN)
241	222685.081	285136.333	TRR	53+96.13	0.00 RT	2" BRASS CAP INSCRIBED "1/4 -12/13- JACKSON COUNTY SURVEYOR" (15965)
250	233262.071	285127.934	TRR	159+73.04	42.74 RT	2-1/2" BRASS CAP REFERENCE MONUMENT (LOOSE) (4TH RE-ESTABLISHMENT GCDB 640700)
251	233361.917	285137.626	TRR	160+72.83	52.91 RT	"X" ON TOP OF BOLT FOR STREET LIGHT (GCDB 640700 T37S, R2W)
252	233362.887	285034.342	TRR	160+74.30	50.37 LT	"X" ON TOP OF BOLT FOR STREET LIGHT (GCDB 640700 T37S, R2W)
253	233272.462	285042.773	TRR	159+83.84	42.37 LT	"X" ON TOP OF BOLT FOR STREET LIGHT (GCDB 640700 T37S, R2W)
254	233282.900	285139.892	TRR	159+93.81	54.79 RT	"X" ON TOP OF BOLT FOR STREET LIGHT (GCDB 640700 T37S, R2W)

NOTES : SEE SHEET 1 OF 4 FOR CONTROL COORDINATES AND DESCRIPTIONS.

**LEGEND:**

- TRR TABLE ROCK ROAD ALIGNMENT
- BID BIDDLE ROAD ALIGNMENT
- ( ) PER JACKSON COUNTY SURVEY RECORDS
- COM CITY OF MEDFORD

PROJECT NO.: 2015016



**SURVEYED FOR:**  
JACKSON COUNTY ROADS  
200 ANTELOPE ROAD  
WHITE CITY, OR 97503

SHEET 4 OF 4  
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