

**\*\*RECEIVED\*\***  
 Date 8-5-08 By AB  
 This Survey Consists of:  
7 Sheet(s) Map  
0 Page(s) Narrative  
 JACKSON COUNTY  
 SURVEYOR

**NARRATIVE**

THE PURPOSE OF THIS SURVEY WAS TO 1. RECOVER THE CENTER LINE OF INTERSTATE HIGHWAY NO. 5 ON BOTH SIDES OF THE BLACKWELL ROAD (OLD HIGHWAY 99) INTERCHANGE IN SECTIONS 28, 29, 33 AND 34, TOWNSHIP 36 SOUTH, RANGE 2 WEST, JACKSON COUNTY; AND 2. RECOVER AND RECORD THE POSITIONS OF EXISTING MONUMENTATION SUBJECT TO DISTURBANCE OR REMOVAL RESULTING FROM THE CONSTRUCTION OF THE PROPOSED SEVEN OAKS BRIDGE PROJECTS IN CONFORMANCE WITH THE REQUIREMENTS OF O.R.S. 209.155(1)(b) AND O.R.S. 209.155(5).

THE BASIS OF BEARINGS FOR THIS SURVEY IS THE OREGON COORDINATE SYSTEM OF 1983, SOUTH ZONE, BASED ON GPS MEASUREMENTS WHICH COMMENCED AT NATIONAL GEODETIC SURVEY (NGS) HORIZONTAL CONTROL POINT "1214B".

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

NETWORK AND EXISTING MONUMENT TIES WERE ACCOMPLISHED USING A COMBINATION OF RAPID STATIC AND REAL-TIME KINEMATIC GPS, AND TERRESTRIAL EQUIPMENT AND PROCEDURES. GPS MEASUREMENTS WERE MADE USING TRIMBLE MODEL 5700 AND 5800 RECEIVERS. TERRESTRIAL MEASUREMENTS WERE ACCOMPLISHED USING GEODIMETER MODEL 610 SERVO-DRIVEN TOTAL STATIONS (+/- 3" ANGULAR PRECISION, 2MM +/- 2 PPM EDM). ALL MONUMENTS WERE "DOUBLE TIED"; FOR REAL-TIME KINEMATIC GPS MEASUREMENTS, THIS MEANS THAT EACH MONUMENT WAS TIED FROM TWO 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 HORIZONTALLY TO THE PUBLISHED NAD83(1991) POSITION OF NGS STATION "1214B". ELEVATIONS SHOWN IN THIS SURVEY ARE IN UNITS OF INTERNATIONAL FEET, AND ARE BASED ON A DIFFERENTIAL LEVEL LINE RUN WITH A LEICA NA2002 ELECTRONIC DIGITAL LEVEL. THE VERTICAL NETWORK WAS ADJUSTED USING "STAR\*NET" VERSION 6.0.25 LEAST SQUARES ADJUSTMENT SOFTWARE, AND WAS CONSTRAINED TO THE PUBLISHED NAVD 88 ELEVATIONS OF BENCH MARKS "1214B", "J549", AND "N7".

**RECOVERY NARRATIVE-INTERSTATE HIGHWAY NO. 5**

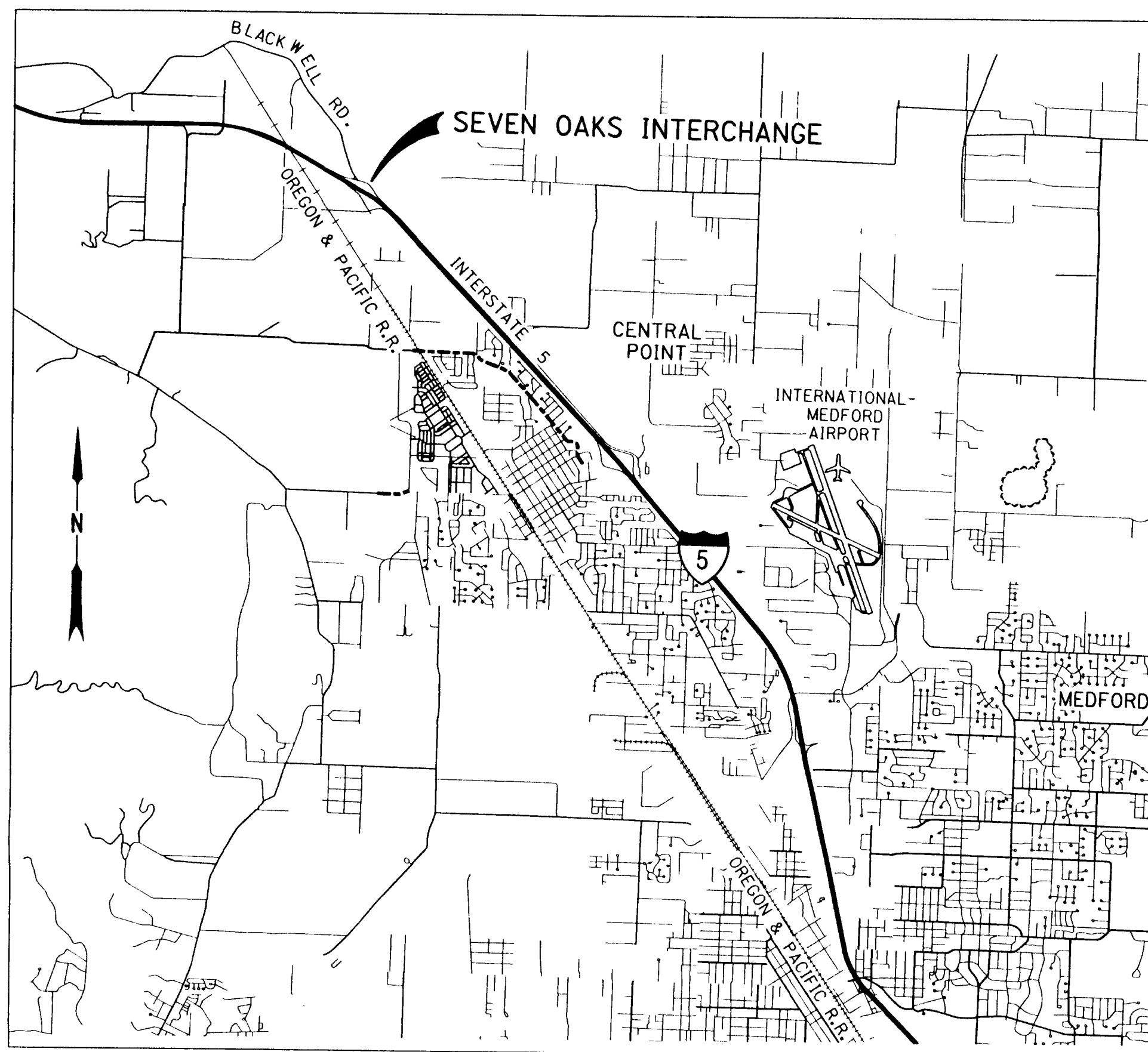
THE CENTER LINE OF INTERSTATE HIGHWAY NO. 5 IS SHOWN ON OREGON DEPARTMENT OF TRANSPORTATION LOCATED LINE DRAWING NO. 7B-22-9, DATED JULY, 1953 (REVISED DEC., 1960), AND LOCATED LINE DRAWING NO. 8B-8-23, DATED MARCH, 1958. DATA FROM THOSE DRAWINGS, OREGON DEPARTMENT OF TRANSPORTATION RIGHT-OF-WAY ACQUISITION FILES, AND EXISTING MONUMENTATION WERE USED AS THE BASIS FOR THE RESOLUTIONS OF THE CENTER LINE IN THIS SURVEY. PROCEDURES USED FOR THE RESOLUTION OF PARTICULAR SEGMENTS OF THE HIGHWAY CENTER LINE ARE DETAILED BELOW.

**STATION 332+34.03 P.T. TO STATION 424+83.00 P.O.T.**  
 FOR THE TANGENT BETWEEN STATIONS 332+34.03 P.T. AND 378+83.72 P.S., I HELD RECOVERED MONUMENT NOS. 350 AND 358 AS 125 FEET LEFT OF CENTER LINE, AND RECOVERED MONUMENT NO. 354 AS 125 FEET RIGHT OF CENTER LINE, AS SHOWN IN DRAWING NO. 7B-22-9. FOR THE TANGENT SOUTHEASTERLY OF STATION 412+03.72 P.T., I HELD RECOVERED MONUMENT NOS. 355 AND 384 AS 150 FEET RIGHT OF CENTER LINE, AND RECOVERED MONUMENT NOS. 311, 327, 328, 334, 362 AND 389 AS 125 FEET RIGHT OF CENTER LINE, AS SHOWN IN DRAWING NO. 7B-22-9. FOR THE CURVE BETWEEN STATIONS 378+83.72 P.S. AND 412+03.72 P.T., I HELD RECOVERED MONUMENT NOS. 354 AND 358 AS 125 FEET RIGHT AND LEFT, RESPECTIVELY, OF STATION 378+83.68 P.S., RECOVERED MONUMENT NOS. 357 AND 363 AS 125 FEET LEFT AND RIGHT, RESPECTIVELY, OF STATION 382+83.72 P.S.C., AND RECOVERED MONUMENT NOS. 361 AND 377 AS 125 FEET RIGHT OF CENTER LINE. TO LAY OUT THE CURVE BETWEEN STATIONS 378+83.72 P.S. AND 412+03.72 P.T., I HELD THE MEASURED DELTA AND TANGENT LENGTH, AND THE RECORD 400 FOOT SPIRAL LENGTHS, AS SHOWN IN DRAWING NO. 7B-22-9.

**STATION 424+83.00 P.O.T. TO STATION 582+73.78 P.S.**  
 FOR THE TANGENT BETWEEN STATIONS 468+54.31 P.T. AND 582+73.78 P.S., I HELD RECOVERED MONUMENT NOS. 306, 312, 317, 338, 339, 340 AS CENTER LINE MONUMENTS. FOR THE CURVE AND TANGENT WESTERLY OF STATION 468+54.31 P.T., I HELD RECOVERED MONUMENT NO. 317 AS THE CENTER LINE P.T., AND THE CURVE DATA AS SHOWN IN DRAWING NO. 8B-8-23.

**RECOVERY NARRATIVE-BLACKWELL ROAD (OLD HWY 99)**

**STATION "A"432+83.18 P.S. TO STATION "A"459+89.06 P.T.**  
 I HELD STATION "A"447+49.65 AS NORTH, 503.93 FEET, AND WEST 275.02 FEET (N00°00'36"E, AND N89°59'24"W WHEN ROTATED TO THIS SURVEY'S BASIS OF BEARINGS) FROM THE NORTHWEST CORNER OF D.L.C. NO. 59 (RECOVERED MONUMENT NO. 337) PER DEED VOLUME 474, PAGE 290, JACKSON COUNTY RECORDS. I HELD THE REMAINING CURVE DATA AS SHOWN IN DRAWING NO. 8B-8-23.



VICINITY MAP  
 NOT TO SCALE

**SHEET INDEX**

- SHEET 1 - NARRATIVE AND VICINITY MAP.
- SHEET 2 - CONTROL NETWORK SCHEMATIC AND COORDINATE TABLE.
- SHEETS 3 & 4 - INTERSTATE 5 CENTER LINE RECOVERY.
- SHEET 5 - BLACKWELL ROAD (OLD HWY 99) CENTER LINE RECOVERY.
- SHEETS 6 & 7 - RECOVERED MONUMENT COORDINATE TABLES.



REGISTERED  
 PROFESSIONAL  
 LAND SURVEYOR

*John A. Carlsson*  
 OREGON  
 JULY 15, 1983  
 JOHN A. CARLSSON  
 2044

RENEWS 12/31/09

FILE NAME: 13541RET.DGN

OREGON DEPARTMENT OF TRANSPORTATION  
 HORIZONTAL CONTROL AND CENTER LINE  
 RECOVERY SURVEY FOR ODOT REG. 5  
 I-5: SEVEN OAKS BRIDGE PACKAGE  
 JACKSON COUNTY, OREGON

**otak** 17355 SW BOONES FERRY RD.  
 LAKE OSWEGO, OREGON 97035  
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JULY 7, 2008  
 KEY NO. 13541  
 PROJ. NO. 12308-002-001  
 NO SCALE  
 SHEET 1 OF 7

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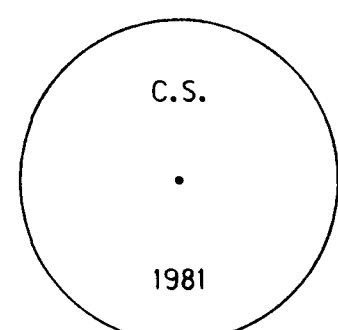
RECOVERED MONUMENT TABLE

PT. NO.	LDP (IF) NORTHING	LDP (IF) EASTING	STATION	OFFSET	DATE	DESCRIPTION
345	278014.10	4263555.53	*466+29.01	150.04 LT.	07/08/2004	FOUND 5/8" IRON ROD (UP 0.20')
346	278340.33	4263256.55	*461+98.38	175.78 LT.	07/08/2004	FOUND 5/8" IRON ROD (FLUSH)
347	281141.50	4256246.71	-	-	07/08/2004	FOUND 1" IRON PIPE (S. SIDE OF PIPE CUT) (FLUSH)
348	279437.18	4262307.91	-	-	07/08/2004	FOUND 1" IRON PIPE (FLUSH)
349	279362.95	4261671.46	-	-	07/08/2004	FOUND 3/4" IRON PIPE (DOWN 0.70')
350	281740.89	4251035.88	**332+34.03	125.00 LT.	06/10/2004	FOUND 3" BRASS DISK SET IN CONCRETE (FLUSH) (SEE TYPICAL SKETCH)
351	281486.49	4252000.53	**341+99.89	124.76 RT.	06/10/2004	FOUND 5/8" IRON ROD (DOWN 0.70')
352	281429.28	4253500.32	**356+99.94	174.76 RT.	06/10/2004	FOUND 5/8" IRON ROD (FLUSH)
353	281448.32	4254759.47	**369+58.98	149.67 RT.	06/10/2004	FOUND 5/8" IRON ROD (FLUSH)
354	281468.63	4255683.31	**378+83.72	124.92 RT.	06/10/2004	FOUND 3" BRASS DISK SET IN CONCRETE (DOWN 0.20') (SEE TYPICAL SKETCH)
355	280621.98	4258776.31	**412+03.53	149.84 RT.	06/11/2004	FOUND 3" BRASS DISK SET IN CONCRETE (DOWN 0.90') (SEE TYPICAL SKETCH)
356	281060.21	4258925.11	-	-	06/11/2004	FOUND 2-1/2" BRASS DISK SET IN CONCRETE (DOWN 2.0') (SEE SKETCH)
357	281711.72	4256088.74	**382+83.67	124.85 LT.	06/11/2004	FOUND 5/8" IRON ROD (DOWN 0.20')
358	281718.55	4255684.42	**378+83.63	125.00 LT.	06/11/2004	FOUND 3" BRASS DISK SET IN CONCRETE (DOWN 0.30') (SEE TYPICAL SKETCH)
360	281810.25	4258348.49	-	-	-	SET PK NAIL CL RR TRACK
361	281194.11	4257582.40	**398+49.87	124.90 RT.	06/17/2004	FOUND 5/8" IRON ROD (FLUSH)
362	280546.94	4258959.20	**413+99.67	125.17 RT.	06/17/2004	FOUND 5/8" IRON ROD (DOWN 0.30') (BENT SLIGHTLY TO N.)
363	281462.06	4256078.80	**382+83.65	125.01 RT.	06/17/2004	FOUND 5/8" IRON ROD (DOWN 0.40')
364	276451.80	4262396.85	-	-	07/08/2004	FOUND 1" X 1" SQUARE HEAD BOLT (FLUSH WITH AC)
365	276676.78	4262404.52	-	-	07/08/2004	FOUND 1" X 1" SQUARE HEAD BOLT (DOWN 0.40')
366	277006.61	4262415.78	-	-	07/08/2004	FOUND 1" X 1" SQUARE HEAD BOLT (DOWN 0.30')
367	277171.53	4262421.35	-	-	07/08/2004	FOUND 1" X 1" SQUARE HEAD BOLT (FLUSH)
368	276841.72	4262410.15	-	-	07/09/2004	FOUND 1" X 1" SQUARE HEAD BOLT (DOWN 0.50')
369	277336.48	4262427.10	-	-	07/09/2004	FOUND 1" X 1" SQUARE HEAD BOLT (DOWN 0.50')
370	277396.40	4262428.96	-	-	07/09/2004	FOUND 1" X 1" SQUARE HEAD BOLT (UNDER MOUND OF DIRT) (DOWN 1.80')
371	277561.33	4262434.62	-	-	07/09/2004	FOUND 1" X 1" SQUARE HEAD BOLT (DOWN 0.60')
372	277726.20	4262440.30	-	-	07/09/2004	FOUND 1" X 1" SQUARE HEAD BOLT (DOWN 0.20')
373	277891.12	4262446.09	-	-	07/09/2004	FOUND 1" X 1" SQUARE HEAD BOLT (DOWN 1.30')
374	278321.39	4262775.48	*458+44.45	149.94 RT.	07/09/2004	FOUND 5/8" IRON ROD WITH YPC STAMPED "LS 2271" (UP 0.20')
375	280872.75	4259089.28	-	-	07/09/2004	FOUND 5/8" IRON ROD WITH 1-1/2" ALUM CAP STAMPED "BOYDEN PLS 287" (FLUSH)
376	278027.20	4263115.82	*463+06.52	149.97 RT.	07/09/2004	FOUND 5/8" IRON ROD WITH YPC STAMPED "LS 2271" (UP 0.20')
377	280964.49	4258174.71	**404+99.64	124.90 RT.	07/09/2004	FOUND 5/8" IRON ROD (DOWN 0.20')
378	280714.34	4259084.19	-	-	07/09/2004	FOUND 2-1/2" BRASS DISK (SW DLC 52) (DOWN 1.10') (SEE SKETCH)
379	281312.22	4257992.96	**401+96.75	124.66 LT.	07/09/2004	FOUND 5/8" IRON ROD (DOWN 0.10')
380	279034.41	4261514.55	-	-	07/10/2004	FOUND 1" X 1" SQUARE HEAD BOLT
381	278804.33	4261728.30	-	-	07/10/2004	FOUND 1" X 1" SQUARE HEAD BOLT (DOWN 0.65')
382	278271.05	4262401.01	-	-	07/10/2004	FOUND 5/8" IRON ROD WITH YPC STAMPED "LS 2271" (UP 0.50')
383	278332.45	4262403.11	-	-	07/10/2004	FOUND 5/8" IRON ROD WITH YPC STAMPED "LS 2271" (UP 0.20')
384	280546.39	4258909.71	**413+56.86	150.00 RT.	07/11/2004	FOUND 1" X 1" SQUARE HEAD BOLT (DOWN 0.10')
385	277844.27	4263786.01	*469+09.09	200.09 LT.	07/11/2004	FOUND 5/8" IRON ROD (FLUSH)
386	275778.10	4262339.12	-	-	-	SET PK NAIL CL RR TRACK
389	279759.87	4260352.04	**429+99.50	124.96 RT.	07/23/2004	FOUND 5/8" IRON ROD (UP 0.30')

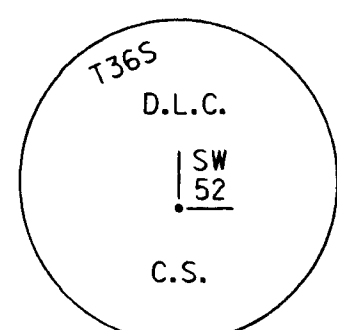
ALL MONUMENTS FOUND IN "GOOD CONDITION" UNLESS OTHERWISE NOTED  
 ALL PIPES MEASURED "INSIDE DIAMETER" UNLESS OTHERWISE NOTED  
 TO CONVERT LDP COORDINATES TO THE OREGON COORDINATE SYSTEM OF 1983  
 (1991 ADJUSTMENT), SOUTH ZONE, MULTIPLY THE LDP COORDINATE VALUES BY 0.99992759

YPC DENOTES WITH YELLOW PLASTIC CAP  
 LDP DENOTES LOCAL DATUM PLANE COORDINATES  
 IF DENOTES UNITS IN INTERNATIONAL FEET  
 \* DENOTES STATIONING RELATIVE TO THE 8B-8-23 CENTER LINE ALIGNMENT  
 BEGINNING AT THE BASIS OF STATIONING AHEAD 424+83.00 P.O.T. (8B-8-23)  
 \*\* DENOTES STATIONING RELATIVE TO THE 7B-22-9 CENTER LINE ALIGNMENT

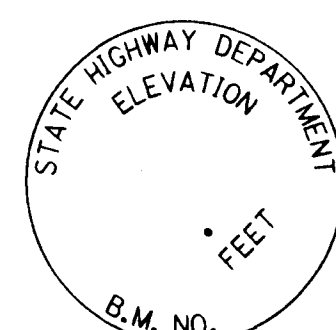
TYPICAL ODOT BENCH MARK  
 FOUND 3" BRASS DISK  
 IN CONCRETE



356

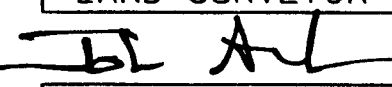


378



350, 354, 355, 358

NOTE:  
 CAP IS PARTIALLY READABLE ONLY

REGISTERED  
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 OREGON  
 JULY 15, 1983  
 JOHN A. CARLSON  
 2044

RENEWS 12/31/09



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OREGON DEPARTMENT OF TRANSPORTATION

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 SHEET 7 OF 7

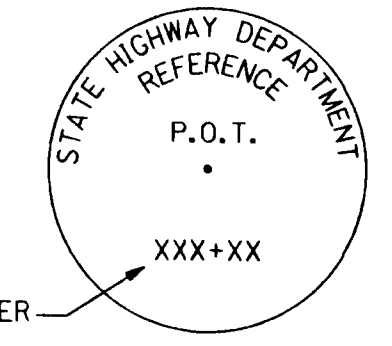
SW 1/4, SE 1/4 SEC 28; NE 1/4, NW 1/4, SE 1/4 SEC 29; NE 1/4 SEC 30; NE 1/4 SEC 33; NW 1/4, SW 1/4, SE 1/4 SEC 34, T 36 S, R 2 W, W.M.

RECOVERED MONUMENT TABLE

PT. NO.	LDP (IF) NORTHING	LDP (IF) EASTING	STATION	OFFSET	DATE	DESCRIPTION
300	278412.14	4258845.94	-	-	05/27/2004	FOUND 3" BRASS DISK IN MON BOX SEC. COR. S28/S29/S32/S33 (DOWN 0.70') (SEE SKETCH)
301	283790.14	4256329.58	-	-	05/27/2004	FOUND 3-1/2" BRASS DISK 1/4 COR. 20/29 (DOWN 0.60') (SEE SKETCH)
302	281207.51	4255015.16	-	-	05/27/2004	FOUND 2-1/2" BRASS DISK IN ASPHALT (DLC 69) (FLUSH) (SEE SKETCH)
303	275686.89	4262313.44	-	-	05/27/2004	FOUND 2-1/2" BRASS DISK IN CONCRETE (SE DLC 60) (NE DLC 61) (SEE SKETCH)
304	277135.25	4262420.12	-	-	05/27/2004	FOUND 5/8" IRON ROD-FLUSH
305	281163.20	4256375.38	-	-	05/27/2004	FOUND 2-1/2" BRASS DISK (ESE DLC 69) (FLUSH) (SEE SKETCH)
306	274224.97	4266930.38	*516+99.32	0.06 RT.	05/27/2004	FOUND 2-3/4" BRASS DISK IN CONCRETE POST "P.O.T. 517+00" (DOWN 0.50') (SEE TYPICAL SKETCH)
307	276193.55	4265228.54	*490+99.64	114.92 LT.	05/27/2004	FOUND 5/8" IRON ROD (FLUSH)
308	279283.65	4262928.89	-	-	05/27/2004	FOUND 1/2" IRON PIPE (DOWN 1.30')
309	278826.26	4262914.56	*456+50.12	335.15 LT.	05/27/2004	FOUND 5/8" IRON ROD (UP 0.30')
310	278594.87	4263033.94	*458+75.10	225.08 LT.	05/27/2004	FOUND 5/8" IRON ROD (FLUSH)
311	280005.76	4259917.24	**425+00.00	124.86 RT.	05/27/2004	FOUND 5/8" IRON ROD (FLUSH)
312	269446.51	4271445.49	*582+73.50	0.02 LT.	06/10/2004	FOUND 2-1/2" BRASS DISK SET IN CONCRETE STAMPED "P.S. 582+73.78" (DOWN 0.60') (SEE SKETCH)
313	276433.18	4264637.78	*485+19.74	149.91 RT.	06/10/2004	FOUND 5/8" IRON ROD (DOWN 0.30')
314	276811.12	4264280.70	*479+99.79	149.89 RT.	06/10/2004	FOUND 5/8" IRON ROD (DOWN 0.60')
315	277643.76	4263493.93	*468+54.23	149.92 RT.	06/10/2004	FOUND 5/8" IRON ROD (DOWN 0.30') (BADLY BENT E.)
316	277927.56	4263219.61	*464+54.27	149.84 RT.	06/10/2004	FOUND 5/8" IRON ROD (DOWN 0.50')
317	277746.67	4263602.95	*468+54.31	0.00	06/10/2004	FOUND 2-1/2" BRASS DISK SET IN CONCRETE STAMPED "468+54.31 P.T."
318	277849.65	4263711.96	*468+54.32	149.96 LT.	06/10/2004	FOUND 5/8" IRON ROD (DOWN 0.60')
319	278140.93	4263430.31	*464+54.35	150.03 LT.	06/10/2004	FOUND 5/8" IRON ROD (FLUSH)
320	278034.27	4263324.96	*464+54.30	0.11 LT.	06/10/2004	FOUND 2-1/2" BRASS DISK SET IN CONCRETE STAMPED "464+54.31" (DOWN 0.50')
321	277138.75	4262315.19	-	-	06/10/2004	FOUND 5/8" IRON ROD (BADLY BENT N.) (TIED SPIN HOLE) (UP 0.30')
322	277583.42	4262330.44	-	-	06/10/2004	FOUND 5/8" IRON ROD (UP 0.15')
323	277858.85	4262296.86	-	-	06/10/2004	FOUND 5/8" IRON ROD (UP 0.35')
324	278097.00	4262199.48	-	-	06/10/2004	FOUND 5/8" IRON ROD (LEANING W.) (TIED E. EDGE) (DOWN 0.70')
325	278843.32	4262291.06	*451+38.61	0.08 LT.	06/11/2004	FOUND 2-1/2" BRASS DISK SET IN CONCRETE STAMPED "451+38.48 P.S.C." (DOWN 0.60')
326	279044.06	4261945.33	**447+38.78 *447+38.81	35.93 LT. 0.13 LT.	06/11/2004	FOUND 2-1/2" BRASS DISK SET IN CONCRETE STAMPED "447+38.48 P.S." (DOWN 0.50')
327	279415.01	4260961.97	**437+00.18	125.04 RT.	06/11/2004	FOUND 3" BRASS DISK SET IN 1' X 1' CONCRETE POST STAMPED "B.M. J549" WITH PUNCH MARK (UP 0.40')
328	279513.37	4260788.07	**435+00.39	124.98 RT.	06/11/2004	FOUND 5/8" IRON ROD (DOWN 0.10')
329	279739.38	4261478.57	-	-	06/11/2004	FOUND 1-1/2" IRON PIPE (STRAIGHT WITH BROKEN AND FLARED TOP) (DOWN 0.20')
330	279958.92	4261466.80	-	-	06/11/2004	FOUND 5/8" IRON ROD (BENT W.) (TIED SPIN HOLE) (FLUSH)
331	280276.18	4260070.08	**425+00.00 *425+00.04	185.77 LT. 150.44 LT.	06/11/2004	FOUND 5/8" IRON ROD (DOWN 0.20')
332	280030.26	4260505.43	**429+99.98 *430+00.04	185.91 LT. 150.48 LT.	06/11/2004	FOUND 5/8" IRON ROD (UP 0.30')
333	280522.17	4259634.84	**420+00.04 *420+00.09	185.74 LT. 150.52 LT.	06/11/2004	FOUND 5/8" IRON ROD (DOWN 0.40')
334	280251.72	4259481.77	**419+99.87	125.02 RT.	06/11/2004	FOUND 5/8" IRON ROD (BENT W.) (TIED SPIN HOLE) (FLUSH)
335	279884.71	4259622.55	-	-	-	SET PK CL RR TRACK
336	278377.58	4260619.27	-	-	-	SET PK CL RR TRACK
337	278312.50	4262402.48	-	-	06/15/2004	FOUND 2-1/2" BRASS DISK SET IN CONCRETE (NW DLC 59) (NE DLC 60) (SEE SKETCH) (UP 0.15')
338	274951.78	4266243.69	*506+99.42	0.03 RT.	07/08/2004	FOUND 2-3/4" BRASS DISK IN CONCRETE "P.O.T. 507+00" (DOWN 0.60') (SEE TYPICAL SKETCH)
339	276187.34	4265076.41	*489+99.67	0.08 LT.	07/08/2004	FOUND 2-3/4" BRASS DISK IN CONCRETE "P.O.T. 490+00" (DOWN 0.50') (SEE TYPICAL SKETCH)
340	276914.06	4264389.65	*479+99.79	0.00	07/08/2004	FOUND 2-3/4" BRASS DISK IN CONCRETE "P.O.T. 480+00" (DOWN 0.35') (SEE TYPICAL SKETCH)
341	277809.93	4263749.64	*469+09.07	150.07 LT.	07/08/2004	FOUND 5/8" IRON ROD (DOWN 0.30')
342	277932.53	4263839.30	*468+81.53	299.44 LT.	07/08/2004	FOUND 5/8" IRON ROD (DOWN 0.30')
343	277906.70	4263882.02	*469+29.65	312.75 LT.	07/08/2004	FOUND 5/8" IRON ROD (FLUSH)
344	277806.39	4263821.70	*469+61.13	200.02 LT.	07/08/2004	FOUND 5/8" IRON ROD (FLUSH)

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7 Sheet(s) Map  
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 JACKSON COUNTY SURVEYOR

TYPICAL ODOT CENTER LINE MONUMENTS  
 FOUND 2-3/4" BRASS DISK IN CONCRETE

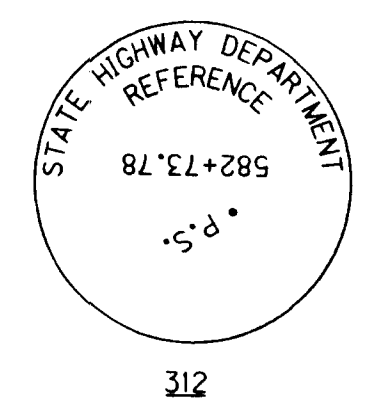


DENOTES CENTER LINE STATION NUMBER

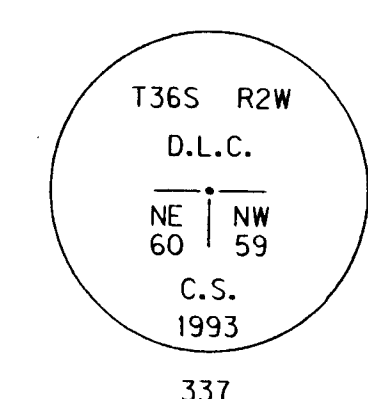
306, 338, 339, 340

ALL MONUMENTS FOUND IN "GOOD CONDITION" UNLESS OTHERWISE NOTED  
 ALL PIPES MEASURED "INSIDE DIAMETER" UNLESS OTHERWISE NOTED  
 TO CONVERT LDP COORDINATES TO THE OREGON COORDINATE SYSTEM OF 1983 (1991 ADJUSTMENT), SOUTH ZONE, MULTIPLY THE LDP COORDINATE VALUES BY 0.99992759

YPC DENOTES WITH YELLOW PLASTIC CAP  
 LDP DENOTES LOCAL DATUM PLANE COORDINATES  
 IF DENOTES UNITS IN INTERNATIONAL FEET  
 \* \* DENOTES STATIONING RELATIVE TO THE 8B-8-23 CENTER LINE ALIGNMENT BEGINNING AT THE BASIS OF STATIONING AHEAD 424+83.00 P.O.T. (8B-8-23)  
 \*\* DENOTES STATIONING RELATIVE TO THE 7B-22-9 CENTER LINE ALIGNMENT



312



337

REGISTERED PROFESSIONAL LAND SURVEYOR  
  
 OREGON JULY 15, 1983  
 JOHN A. CARLSON 2044  
 RENEWS 12/31/09



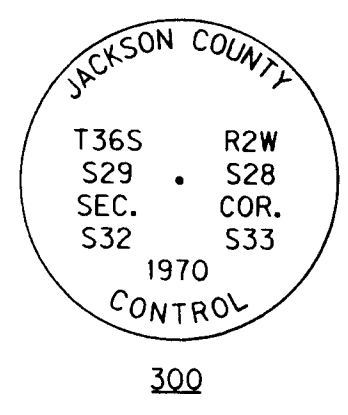
FILE NAME: 13541RET.DGN

OREGON DEPARTMENT OF TRANSPORTATION  
 HORIZONTAL CONTROL AND CENTER LINE RECOVERY SURVEY FOR ODOT REG. 5  
 I-5: SEVEN OAKS BRIDGE PACKAGE  
 JACKSON COUNTY, OREGON

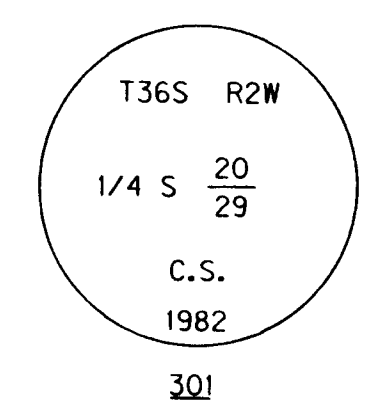


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 FAX: (503) 635-5395  
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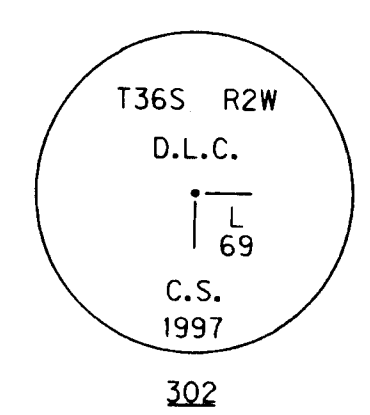
JULY 7, 2008  
 KEY NO. 13541  
 PROJ. NO. 12308-002-001  
 SHEET 6 OF 7



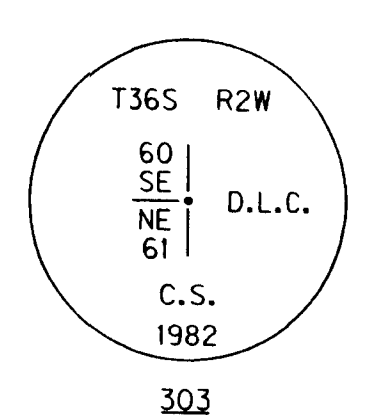
300



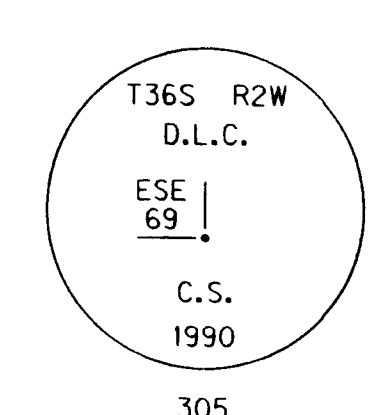
301



302



303



305



SW 1/4, SE 1/4 SEC 28; NE 1/4, NW SEC 33; NW 1/4 SEC 34, T 36 S, R 2 W, W.M.

W.R. DAVIS  
D.L.C. NO. 52

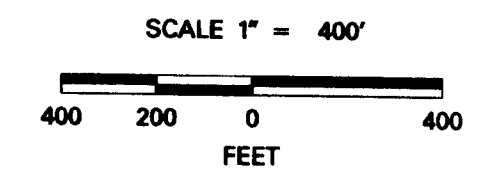
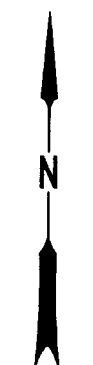
JAMES MCDONOUGH  
D.L.C. NO. 53

THOMAS PYLE  
D.L.C. NO. 54

A.J. COAKLEY  
D.L.C. NO. 60

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 JACKSON COUNTY  
 SURVEYOR

NOTE: FOR PURPOSES OF THIS SURVEY, "HELD" DENOTES RECOVERED MONUMENT POSITION WITHIN 0.2' OF CALCULATED ALIGNMENT POSITION.



REGISTERED  
PROFESSIONAL  
LAND SURVEYOR

*J.A. Carlson*

OREGON  
JULY 15, 1983  
JOHN A. CARLSON  
2044

RENEWS 12/31/09



FILE NAME: 13541RET.DGN

OREGON DEPARTMENT OF TRANSPORTATION

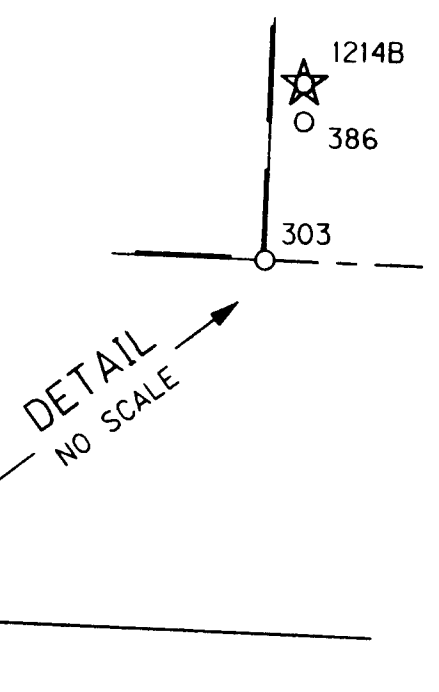
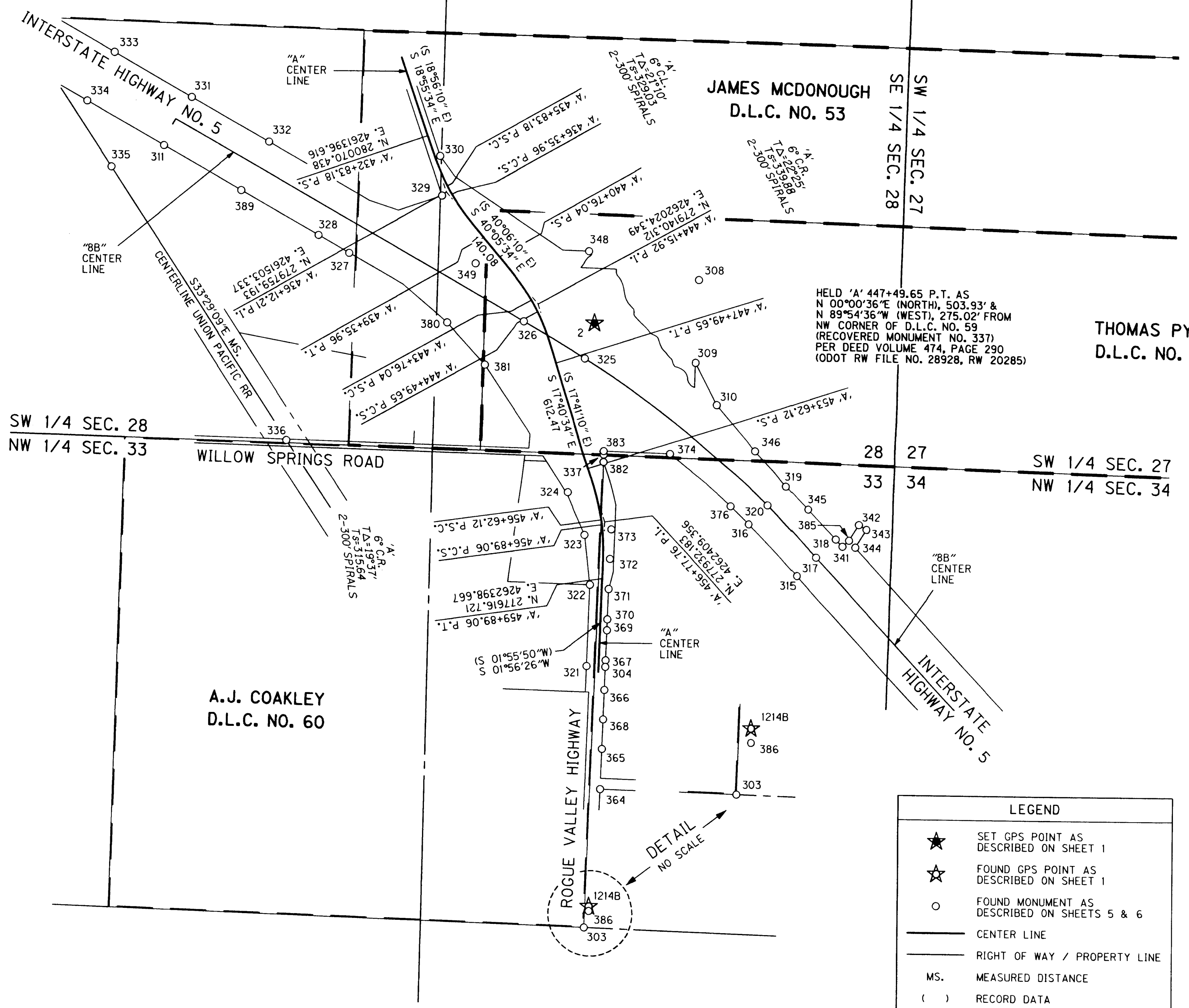
HORIZONTAL CONTROL AND CENTER LINE  
RECOVERY SURVEY FOR ODOT REG. 5  
I-5: SEVEN OAKS BRIDGE PACKAGE  
JACKSON COUNTY, OREGON



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JULY 7, 2008  
KEY NO. 13541  
PROJ. NO. 12308-002-001  
SCALE: 1" = 400'  
SHEET 5 OF 7

LEGEND	
★	SET GPS POINT AS DESCRIBED ON SHEET 1
☆	FOUND GPS POINT AS DESCRIBED ON SHEET 1
○	FOUND MONUMENT AS DESCRIBED ON SHEETS 5 & 6
—	CENTER LINE
—	RIGHT OF WAY / PROPERTY LINE
MS.	MEASURED DISTANCE
( )	RECORD DATA



HELD 'A' 447+49.65 P.T. AS  
N 00°00'36"E (NORTH), 503.93' &  
N 89°54'36"W (WEST), 275.02' FROM  
NW CORNER OF D.L.C. NO. 59  
(RECOVERED MONUMENT NO. 337)  
PER DEED VOLUME 474, PAGE 290  
(ODOT RW FILE NO. 28928, RW 20285)

SW 1/4, SE 1/4 SEC 28; NE 1/4 SEC 33; NW 1/4, SW 1/4, SE 1/4 SEC 34, T 36 S, R 2 W, W.M.

W.R. DAVIS  
D.L.C. NO. 52

JAMES MCDONOUGH  
D.L.C. NO. 53

THOMAS PYLE  
D.L.C. NO. 54

A.J. COAKLEY  
D.L.C. NO. 60

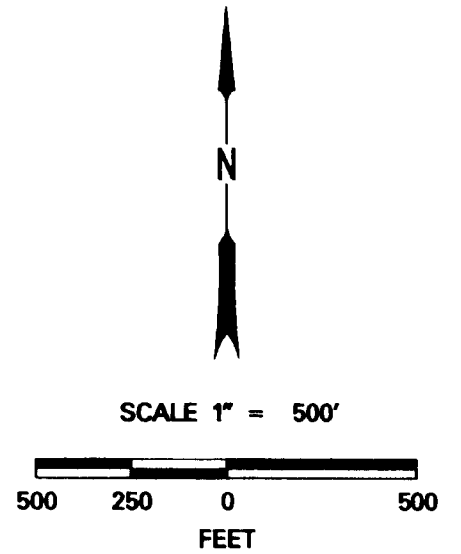
JOHN COAKLEY  
D.L.C. NO. 59

JOHN RANKIN  
D.L.C. NO. 56

JOHN WATSON  
D.L.C. NO. 57

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PROFESSIONAL  
LAND SURVEYOR

*John A. Carlson*

OREGON  
JULY 15, 1983  
JOHN A. CARLSON  
2044

RENEWS 12/31/09



FILE NAME: 13541RET.DGN

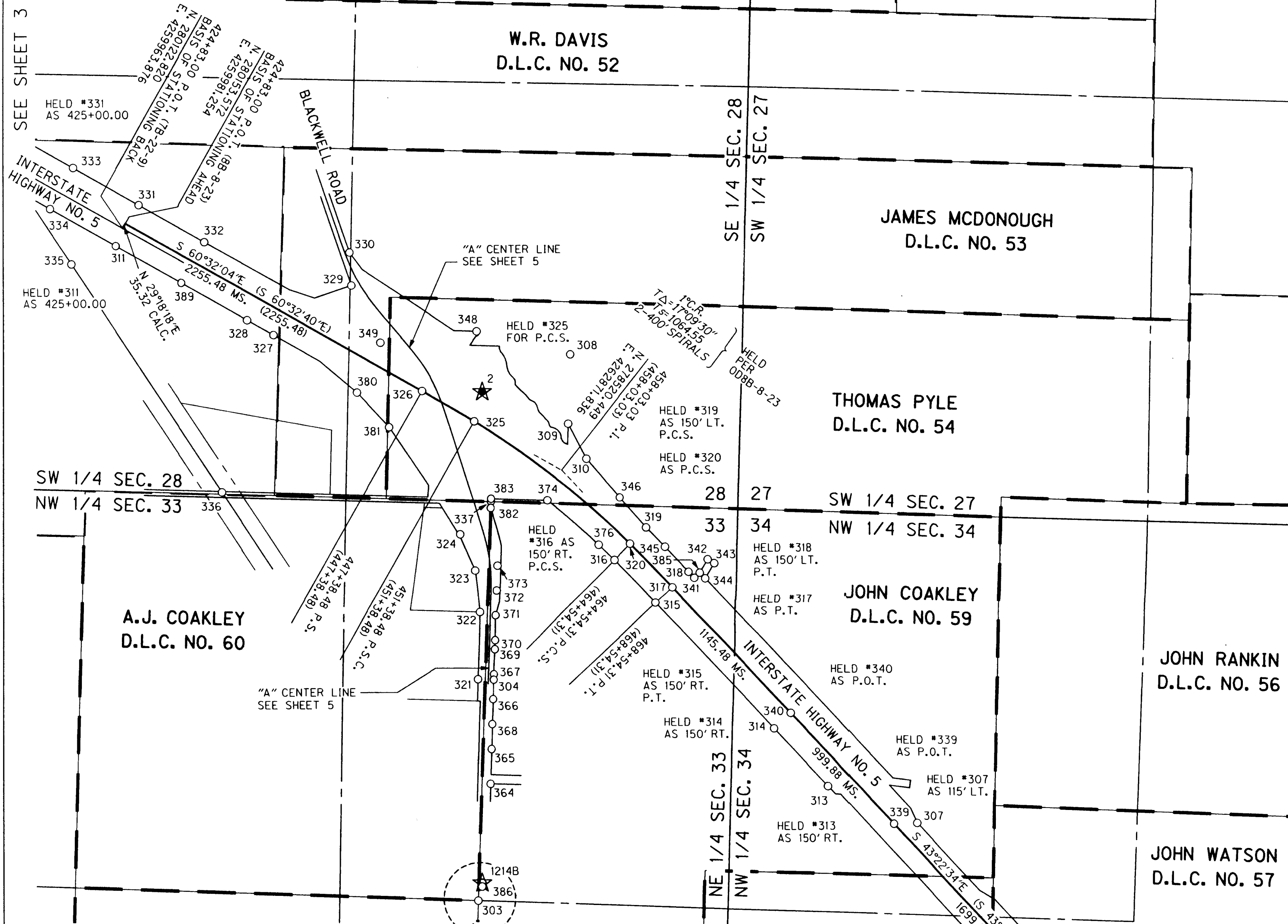
OREGON DEPARTMENT OF TRANSPORTATION

HORIZONTAL CONTROL AND CENTER LINE  
RECOVERY SURVEY FOR ODOT REG. 5  
1-5: SEVEN OAKS BRIDGE PACKAGE  
JACKSON COUNTY, OREGON

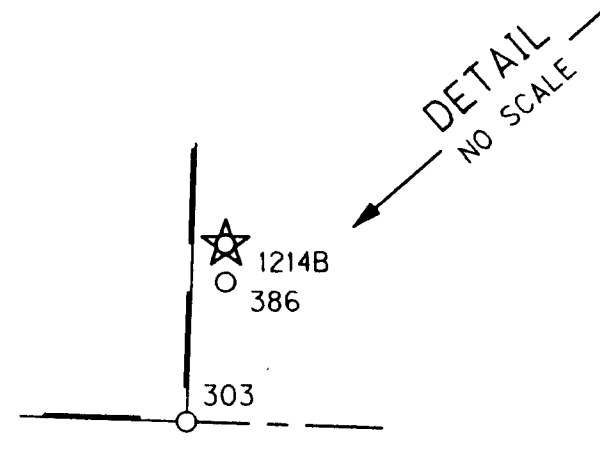


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JULY 7, 2008  
KEY NO. 13541  
PROJ. NO. 12308-002-001  
SCALE: 1" = 500'  
SHEET 4 OF 7

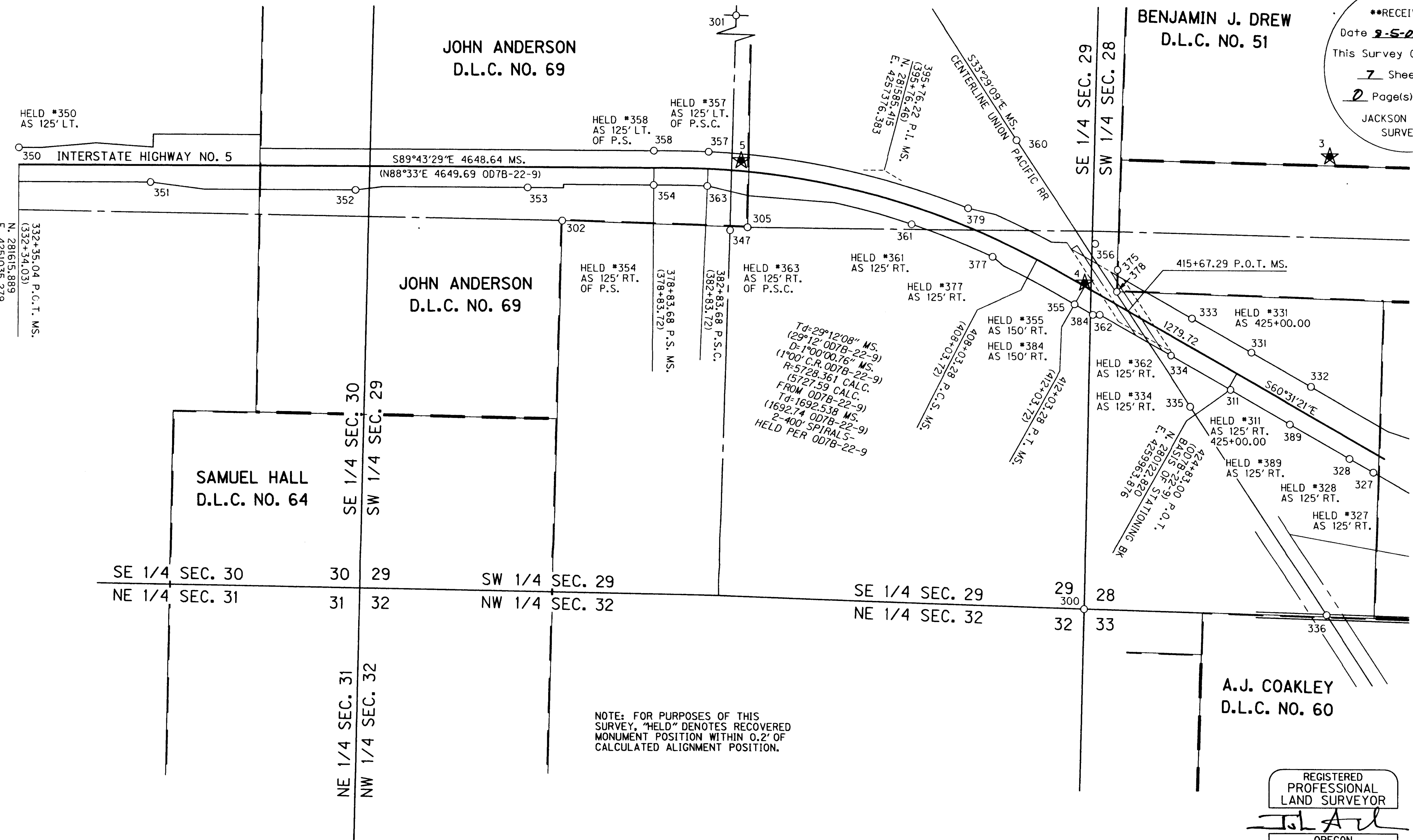


LEGEND	
★	SET GPS POINT AS DESCRIBED ON SHEET 1
☆	FOUND GPS POINT AS DESCRIBED ON SHEET 1
○	FOUND MONUMENT AS DESCRIBED ON SHEETS 5 & 6
—	CENTER LINE
—	RIGHT OF WAY / PROPERTY LINE
( )	RECORD DATA
MS.	DENOTES MEASURED DISTANCE
OD	DENOTES OREGON DEPARTMENT OF TRANSPORTATION DRAWING NUMBER



SW 1/4 SEC 28; NE 1/4, NW 1/4, SE 1/4 SEC 29; NE 1/4 SEC 30, T 36 S, R 2 W, W.M.

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 JACKSON COUNTY SURVEYOR



Td=29°12'08" MS.  
 (29°12' 007B-22-9)  
 D=1°00'00.76" MS.  
 R=5728.361 CALC.  
 15727.59  
 FROM OD7B-22-9  
 Td=1692.538 MS.  
 (1692.74 007B-22-9)  
 2-400' SPIRALS-  
 HELD PER OD7B-22-9

NOTE: FOR PURPOSES OF THIS SURVEY, "HELD" DENOTES RECOVERED MONUMENT POSITION WITHIN 0.2' OF CALCULATED ALIGNMENT POSITION.

SAMUEL HALL  
 D.L.C. NO. 64

JOHN ANDERSON  
 D.L.C. NO. 69

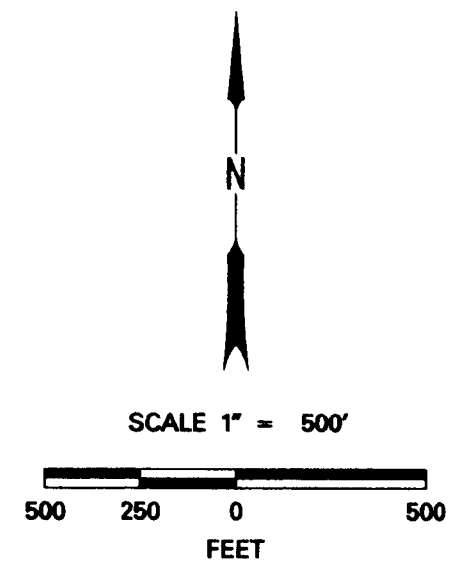
BENJAMIN J. DREW  
 D.L.C. NO. 51

A.J. COAKLEY  
 D.L.C. NO. 60

SE 1/4 SEC. 30  
 SW 1/4 SEC. 29  
 NE 1/4 SEC. 31  
 NW 1/4 SEC. 32

332+35.04 P.C.T. MS.  
 (332+34.03)  
 N. 281615.889  
 E. 4251035.279

REGISTERED PROFESSIONAL LAND SURVEYOR  
  
 OREGON  
 JULY 15, 1983  
 JOHN A. CARLSON  
 2044  
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LEGEND	
★	SET GPS POINT AS DESCRIBED ON SHEET 1
○	FOUND MONUMENT AS DESCRIBED ON SHEETS 5 & 6
—	CENTER LINE
—	RIGHT OF WAY / PROPERTY LINE
( )	RECORD DATA
MS.	DENOTES MEASURED DISTANCE
OD	DENOTES OREGON DEPARTMENT OF TRANSPORTATION DRAWING NUMBER

FILE NAME: 13541RET.DGN

**OREGON DEPARTMENT OF TRANSPORTATION**

HORIZONTAL CONTROL AND CENTER LINE RECOVERY SURVEY FOR ODOT REG. 5  
 I-5: SEVEN OAKS BRIDGE PACKAGE  
 JACKSON COUNTY, OREGON

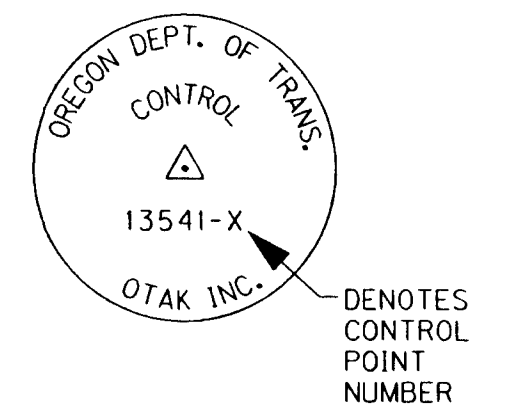
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JULY 7, 2008  
 KEY NO. 13541  
 PROJ. NO. 12308-002-001  
 SCALE: 1" = 500'  
 SHEET 3 OF 7

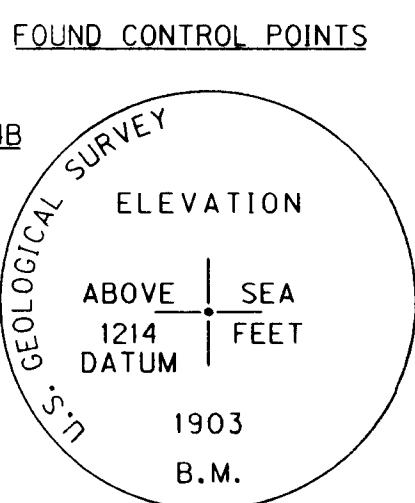
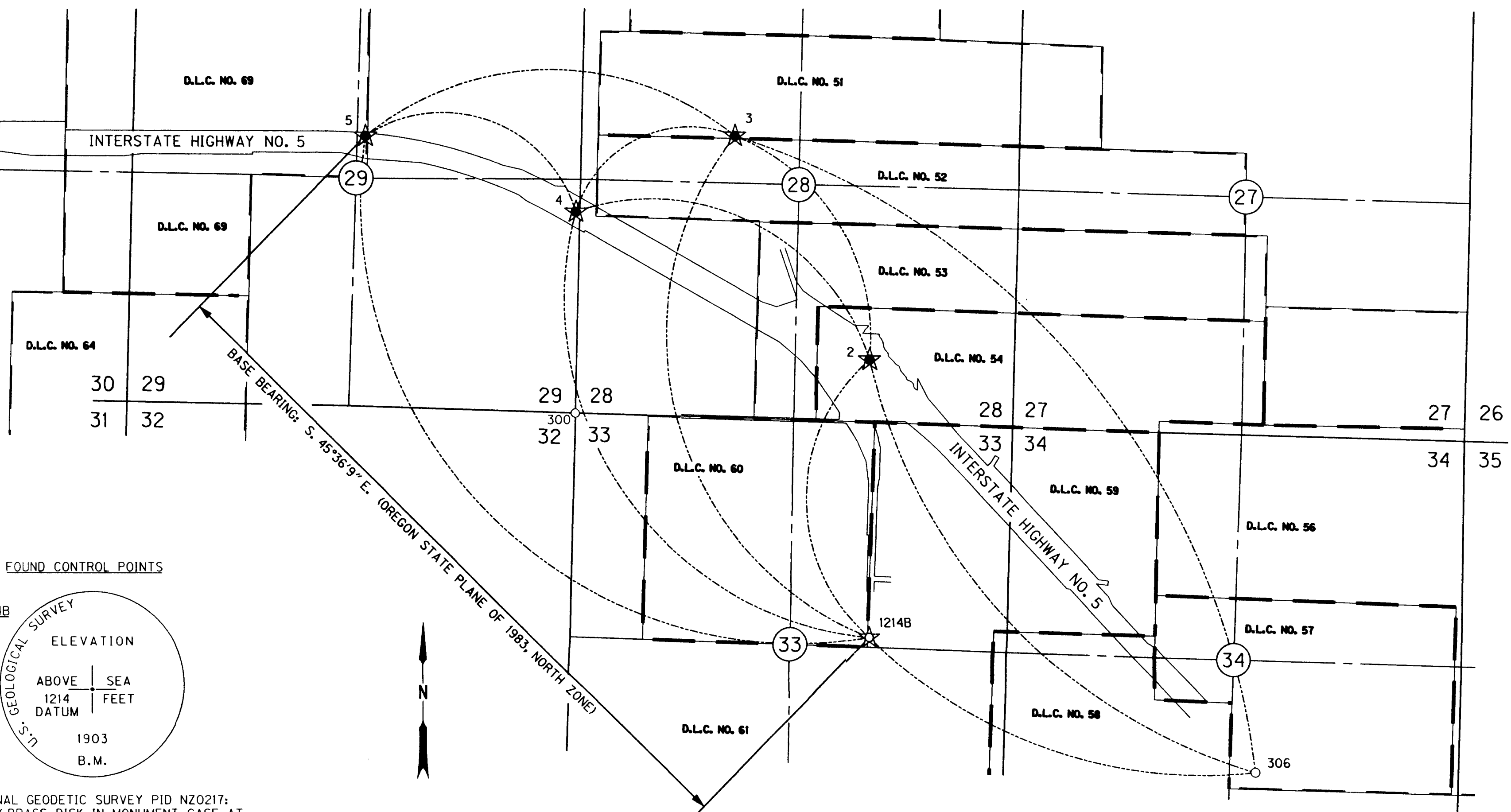
SEE SHEET 4

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0 Page(s) Narrative  
 JACKSON COUNTY  
 SURVEYOR

TYPICAL SET CONTROL POINTS  
 SET 5/8" X 30" REBAR WITH  
 3-1/4" BRASS DISK IN CONCRETE



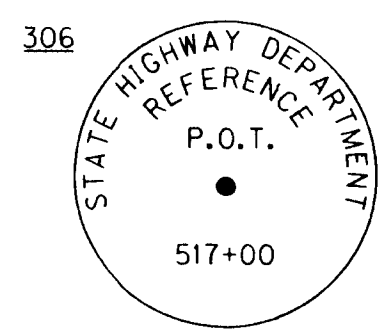
- 2 LOCATED ALONG SOUTH SIDE OF I-5 N.B. OFF RAMP TO BLACKWELL ROAD; 11.5' SOUTH OF RAMP E.P.; 370' NW OF "EXIT 35" SIGN
- 3 LOCATED 8.7' SW OF END POST WOOD FENCE; 12.2' SOUTH OF "NO PARKING" SIGN; 9.6' SW OF BLACKWELL ROAD FOG LINE
- 4 LOCATED IN MEDIAN BETWEEN I-5 N.B. AND S.B. LANES, WEST OF RR TRACKS; 10.0' EAST OF WEST END N.B. BRIDGE; 13.0' NORTH OF CONCRETE BARRIER
- 5 LOCATED ALONG NORTH SIDE I-5 N.B. LANES AT THE TOLO ROAD OVERPASS; 23.5' NW OF TOLO ROAD E.P.; 9.0' NE OF TOP OF BANK



NATIONAL GEODETIC SURVEY PID NZ0217:  
 3-3/4" BRASS DISK IN MONUMENT CASE AT  
 INTERSECTION OF HWY. 99 AND RR TRACKS;  
 12.0' SW OF POWER POLE GUY ANCHOR;  
 10.5' NW OF TRACK RAIL

PROJECT CONTROL DESCRIPTIONS

STATION NAME	DESCRIPTION
2	SET 3-1/4" BRASS DISK IN CONCRETE (SEE SKETCH)
3	SET 3-1/4" BRASS DISK IN CONCRETE (SEE SKETCH)
4	SET 3-1/4" BRASS DISK IN CONCRETE (SEE SKETCH)
5	SET 3-1/4" BRASS DISK IN CONCRETE (SEE SKETCH)
306	FOUND 2-3/4" BRASS DISK IN CONCRETE POST "P.O.T 517+00" (SEE SKETCH)
1214B	FOUND 3-3/4" BRASS DISK IN CONCRETE PIPE (SEE SKETCH)



2-3/4" BRASS DISK IN CONCRETE IN MEDIAN BETWEEN I-5 N.B. AND S.B. LANES; 79.0' WEST OF "EXIT 33" SIGN (I-5 S.B.); 350± EAST OF "EXIT 35" SIGN (I-5 N.B.)

LEGEND

- ☆ FOUND GPS MONUMENT
- ★ SET GPS MONUMENT
- FOUND MONUMENT AS DESCRIBED ON SHEET 6
- ↔ GPS OBSERVATIONS

REGISTERED PROFESSIONAL LAND SURVEYOR  
  
 OREGON  
 JULY 15, 1983  
 JOHN A. CARLSON  
 2044  
 RENEWS 12/31/09



PROJECT CONTROL POSITIONS AND COORDINATES

POINT NAME	NORTH LAT. NAD83(1991)	WEST LONG. NAD83(1991)	ELLIPSE HEIGHT (IF)	OCS (IF) NORTHING	OCS (IF) EASTING	LDP (IF) NORTHING	LDP (IF) EASTING	NAVD88 EL. (IF)	GEOID SEP. (IF)	CONVERGENCE ANGLE	SCALE FACTOR	COMBINED FACTOR
2	42°24'21.19413"	122°56'28.27348"	1133.20	279017.98	4262034.62	279038.19	4262343.27	1212.87**	-79.67	-1°40'12.5	0.99998252	0.99992835
3	42°24'46.64737"	122°56'50.71496"	1115.13	281642.68	4260427.01	281663.08	4260735.54	1194.79**	-79.66	-1°40'27.8	0.99998090	0.99992760
4	42°24'37.25762"	122°57'15.47327"	1174.45	280746.90	4258542.74	280767.23	4258851.13	1254.04**	-79.63	-1°40'44.8	0.99998150	0.99992536
5	42°24'45.34741"	122°57'49.05638"	1171.02	281639.44	4256048.60	281659.84	4256356.81	1250.61**	-79.59	-1°41'07.7	0.99998098	0.99992501
306	42°23'34.98676"	122°55'25.30397"	1145.97	274205.11	4266621.41	274224.97	4266930.38	1225.66	-79.69	-1°39'29.4	0.99998550	0.99993072
1214B	42°23'49.23838"*	122°56'27.06792"*	1139.73	275781.80	4262030.76	275801.77	4262339.40	1219.37*	-79.64	-1°40'11.7	0.99998457	0.99993009

NOTES: ALL COORDINATES AND ELEVATIONS ARE DISPLAYED IN UNITS OF INTERNATIONAL FEET.  
 DATA SHOWN AS ' \* ' WAS HELD FOR THIS SURVEY.  
 DATA SHOWN AS ' \*\* ' INDICATES DIFFERENTIALLY LEVELED ELEVATIONS.  
 THIS PROJECT USED AN AVERAGE COMBINED FACTOR OF 0.99992759.  
 "1214B" DENOTES NGS STATION "1214B", PID "NZ0217".  
 IF DENOTES UNITS IN INTERNATIONAL FEET.

FILE NAME: 13541RET.DGN

OREGON DEPARTMENT OF TRANSPORTATION  
 HORIZONTAL CONTROL AND CENTER LINE RECOVERY SURVEY FOR ODOT REG. 5 I-5: SEVEN OAKS BRIDGE PACKAGE JACKSON COUNTY, OREGON

otak 17355 SW BOONES FERRY RD. JULY 7, 2008  
 LAKE OSWEGO, OREGON 97035 KEY NO. 13541  
 PHONE: (503) 635-3618 PROJ. NO. 12308-002-001  
 FAX: (503) 635-5395 NO SCALE  
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