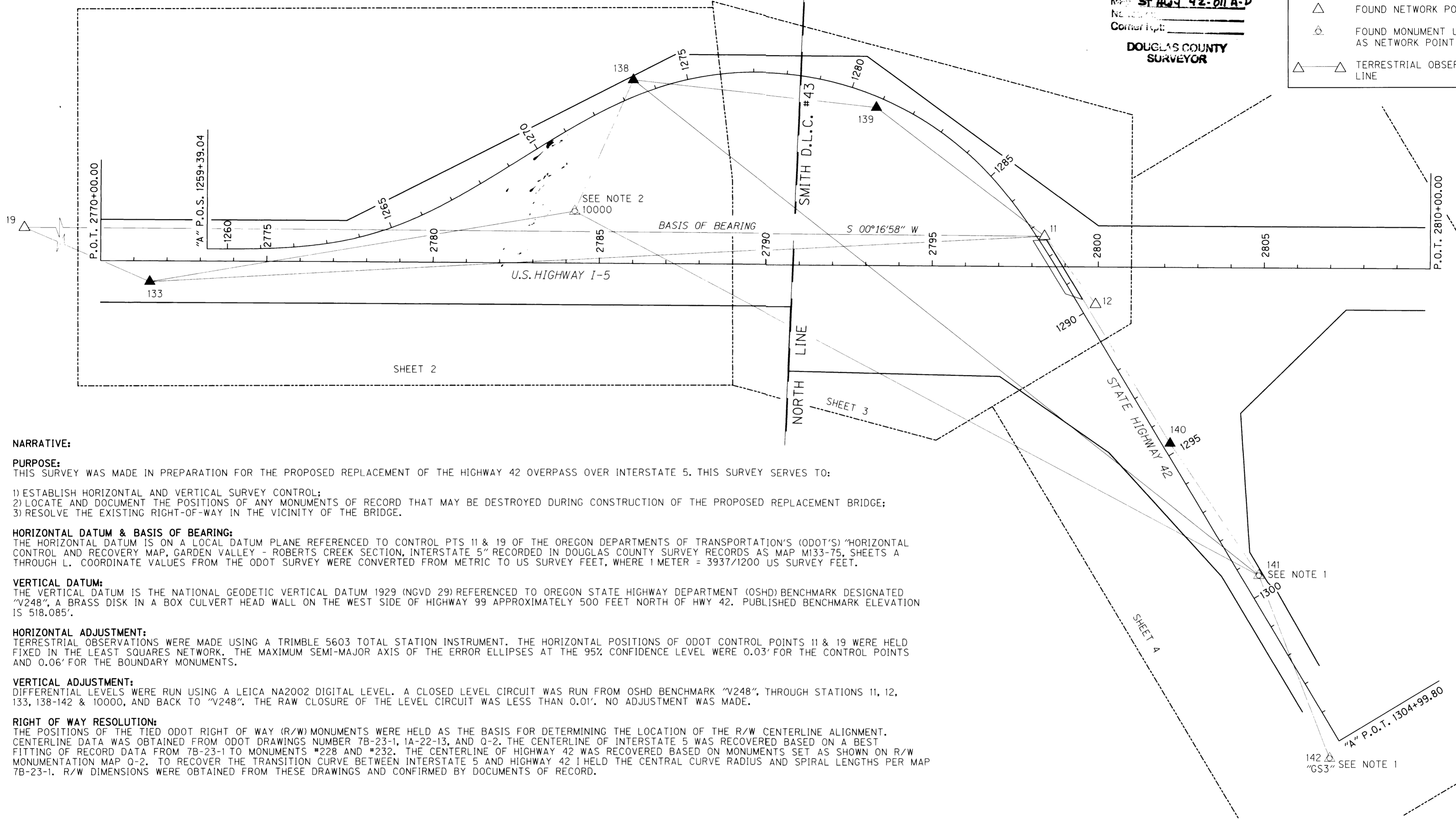


S.W. 1/4 SEC. 1, S.E. 1/4 SEC. 2, N.E. 1/4 SEC. 11, AND N.W. 1/4 SEC. 12,  
T. 28 S., R. 6 W., W.M.

**FILED**  
Date: 11-30-2004 By: JC  
This survey consists of:  
Map: ST. HWY 42-011A-D  
Name: \_\_\_\_\_  
Corner Lpt: \_\_\_\_\_  
**DOUGLAS COUNTY SURVEYOR**

LEGEND	
▲	SET NETWORK POINT
△	FOUND NETWORK POINT
⊙	FOUND MONUMENT USED AS NETWORK POINT
△—△	TERRESTRIAL OBSERVATION LINE



**NARRATIVE:**

**PURPOSE:**  
THIS SURVEY WAS MADE IN PREPARATION FOR THE PROPOSED REPLACEMENT OF THE HIGHWAY 42 OVERPASS OVER INTERSTATE 5. THIS SURVEY SERVES TO:

- 1) ESTABLISH HORIZONTAL AND VERTICAL SURVEY CONTROL;
- 2) LOCATE AND DOCUMENT THE POSITIONS OF ANY MONUMENTS OF RECORD THAT MAY BE DESTROYED DURING CONSTRUCTION OF THE PROPOSED REPLACEMENT BRIDGE;
- 3) RESOLVE THE EXISTING RIGHT-OF-WAY IN THE VICINITY OF THE BRIDGE.

**HORIZONTAL DATUM & BASIS OF BEARING:**

THE HORIZONTAL DATUM IS ON A LOCAL DATUM PLANE REFERENCED TO CONTROL PTS 11 & 19 OF THE OREGON DEPARTMENTS OF TRANSPORTATION'S (ODOT'S) "HORIZONTAL CONTROL AND RECOVERY MAP, GARDEN VALLEY - ROBERTS CREEK SECTION, INTERSTATE 5" RECORDED IN DOUGLAS COUNTY SURVEY RECORDS AS MAP M133-75, SHEETS A THROUGH L. COORDINATE VALUES FROM THE ODOT SURVEY WERE CONVERTED FROM METRIC TO US SURVEY FEET, WHERE 1 METER = 3937/1200 US SURVEY FEET.

**VERTICAL DATUM:**

THE VERTICAL DATUM IS THE NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD 29) REFERENCED TO OREGON STATE HIGHWAY DEPARTMENT (OSHD) BENCHMARK DESIGNATED "V248", A BRASS DISK IN A BOX CULVERT HEAD WALL ON THE WEST SIDE OF HIGHWAY 99 APPROXIMATELY 500 FEET NORTH OF HWY 42. PUBLISHED BENCHMARK ELEVATION IS 518.085'.

**HORIZONTAL ADJUSTMENT:**

TERRESTRIAL OBSERVATIONS WERE MADE USING A TRIMBLE 5603 TOTAL STATION INSTRUMENT. THE HORIZONTAL POSITIONS OF ODOT CONTROL POINTS 11 & 19 WERE HELD FIXED IN THE LEAST SQUARES NETWORK. THE MAXIMUM SEMI-MAJOR AXIS OF THE ERROR ELLIPSES AT THE 95% CONFIDENCE LEVEL WERE 0.03' FOR THE CONTROL POINTS AND 0.06' FOR THE BOUNDARY MONUMENTS.

**VERTICAL ADJUSTMENT:**

DIFFERENTIAL LEVELS WERE RUN USING A LEICA NA2002 DIGITAL LEVEL. A CLOSED LEVEL CIRCUIT WAS RUN FROM OSHD BENCHMARK "V248", THROUGH STATIONS 11, 12, 133, 138-142 & 10000, AND BACK TO "V248". THE RAW CLOSURE OF THE LEVEL CIRCUIT WAS LESS THAN 0.01'. NO ADJUSTMENT WAS MADE.

**RIGHT OF WAY RESOLUTION:**

THE POSITIONS OF THE TIED ODOT RIGHT OF WAY (R/W) MONUMENTS WERE HELD AS THE BASIS FOR DETERMINING THE LOCATION OF THE R/W CENTERLINE ALIGNMENT. CENTERLINE DATA WAS OBTAINED FROM ODOT DRAWINGS NUMBER 7B-23-1, 1A-22-13, AND Q-2. THE CENTERLINE OF INTERSTATE 5 WAS RECOVERED BASED ON A BEST FITTING OF RECORD DATA FROM 7B-23-1 TO MONUMENTS #228 AND #232. THE CENTERLINE OF HIGHWAY 42 WAS RECOVERED BASED ON MONUMENTS SET AS SHOWN ON R/W MONUMENTATION MAP Q-2. TO RECOVER THE TRANSITION CURVE BETWEEN INTERSTATE 5 AND HIGHWAY 42 I HELD THE CENTRAL CURVE RADIUS AND SPIRAL LENGTHS PER MAP 7B-23-1. R/W DIMENSIONS WERE OBTAINED FROM THESE DRAWINGS AND CONFIRMED BY DOCUMENTS OF RECORD.

**NOTE:**

- 1) FOUND MONUMENTS PER ST. HWY. 42-002 (BY ODOT, 1998) AND ST. HWY. 42-007 (BY ODOT, 2002). NOT HELD IN CONTROL ADJUSTMENT.
- 2) FOUND MONUMENT PER ST. HWY. 15-006 (BY ODOT, 1999). MONUMENT NOT STABLE. NOT HELD IN CONTROL ADJUSTMENT.

NETWORK/TRaverse POINT COORDINATE TABLE LDP = LOCAL DATUM PLANE

PT. NO.	LDP NORTHING	LDP EASTING	ELEV.	DESCRIPTION
11	554856.5806	1236221.4780	556.39	FOUND 5/8" REBAR, WITH 1-1/2" BRASS CAP STAMPED "ODOT CONTROL 11," FLUSH WITH SURFACE
12	554723.2126	1236004.0177	552.24	FOUND 5/8" REBAR, WITH 1-1/2" BRASS CAP STAMPED "ODOT CONTROL 12," FLUSH WITH SURFACE
19	558858.1408	1236241.2320	-	FOUND 5/8" REBAR, WITH 1-1/2" BRASS CAP STAMPED "ODOT CONTROL 19," FLUSH WITH SURFACE
133	557546.8987	1236085.1051	527.81	SET 5/8" x 30" IRON ROD, WITH ORANGE PLASTIC CAP STAMPED "BLUEDOT CONTROL," FLUSH WITH SURFACE
138	556092.3406	1236690.8537	543.26	SET 5/8" x 30" IRON ROD, WITH ORANGE PLASTIC CAP STAMPED "BLUEDOT CONTROL," FLUSH WITH SURFACE
139	555362.5134	1236609.3561	552.88	SET 5/8" x 30" IRON ROD, WITH ORANGE PLASTIC CAP STAMPED "BLUEDOT CONTROL," FLUSH WITH SURFACE
140	554478.8000	1235597.3236	544.33	SET MAGNETIC NAIL WITH WASHER STAMPED "BLUEDOT CONTROL"
141	554211.5058	1235199.5924	533.04	FOUND 5/8" REBAR, WITH 1-1/2" BRASS CAP STAMPED "ODOT CONTROL 123," FLUSH WITH SURFACE
142	553998.3253	1234649.4887	523.81	FOUND 5/8" IRON ROD WITH 1-1/2" ALUMINUM CAP STAMPED "ODOT GS3". USED AS NETWORK POINT.
10000	556268.7968	1236295.8544	519.40	FOUND 5/8" REBAR, WITH 1" BRASS CAP STAMPED "ODOT CONTROL 10," FLUSH WITH SURFACE. DISTURBED/NOT STABLE. DETERMINED NEW COORDINATES. [SURVEY 15-006 (BY ODOT, 1999); N=169550.969m, E=376823.713m, (NAD 27)]

REGISTERED PROFESSIONAL LAND SURVEYOR  
*Mark Mayer*  
OREGON  
JULY 14, 1998  
MARK J. MAYER  
2887  
RENEWAL: 12-31-04

**bluedot group**  
land surveying & mapping  
6750 franklin st, suite b  
tigard, or 97223  
v. 503.209.0558  
f. 503.620.2771

CAD FILE: 04012 HWY 42 ROS.DGN

OREGON DEPARTMENT OF TRANSPORTATION  
HORIZONTAL CONTROL, RECOVERY AND RETRACEMENT MAP  
HWY 42 OVERPASS AT I-5 INTERCHANGE  
U.S. HIGHWAY 42  
DOUGLAS COUNTY, OREGON

NOVEMBER 17, 2004 FOR ODOT REGION 3 SCALE: 1" = 200'  
355 CAPITOL ST. N.E., SALEM, OR 97301-3871

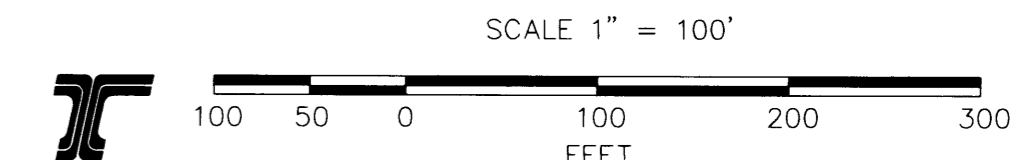
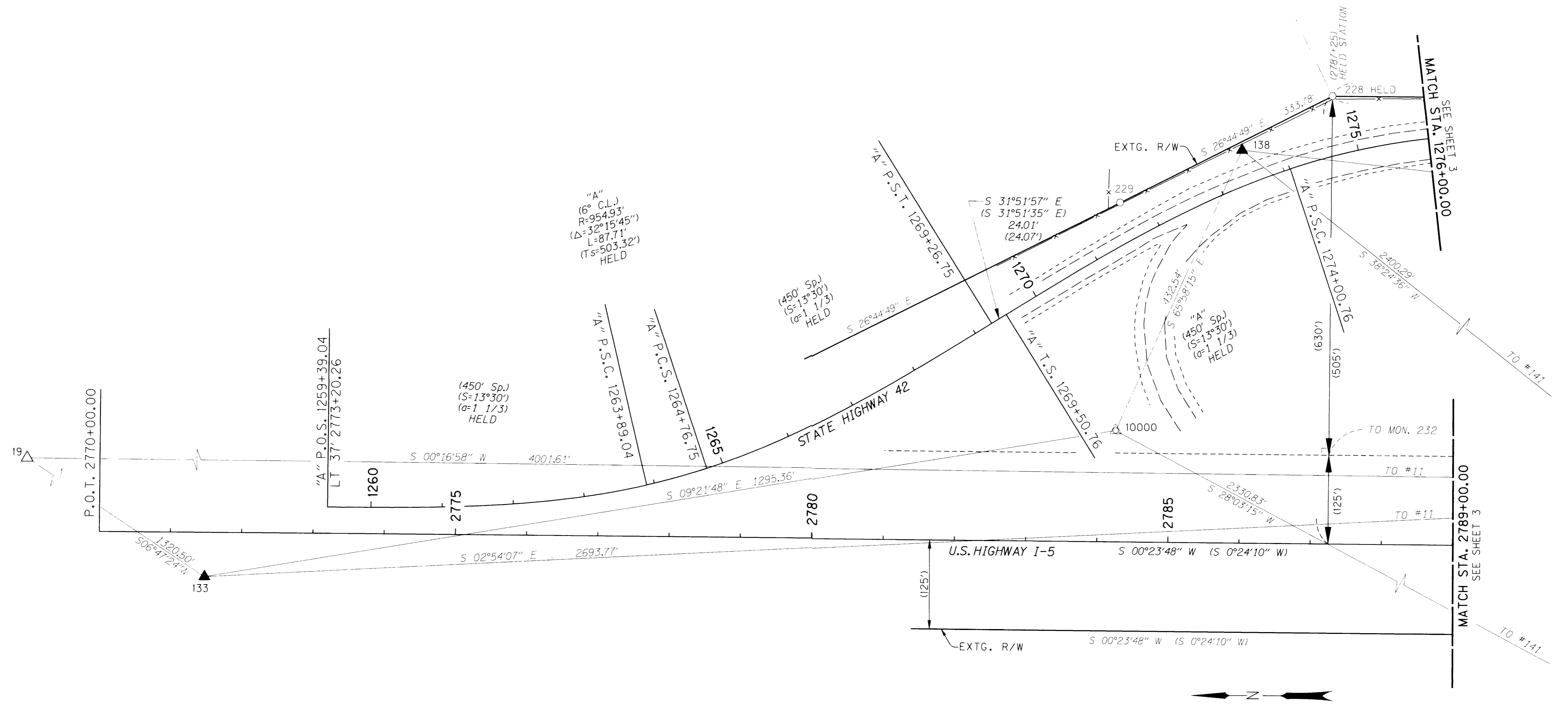
KEY NO. 13450 SHEET 1 OF 4

S.W. 1/4 SEC. 1, S.E. 1/4 SEC. 2, N.E. 1/4 SEC. 11, AND N.W. 1/4 SEC. 12,  
T. 28 S., R. 6 W., W.M.

FILED  
Date: 11-30-2004  
This survey consists of:  
Map: ST HWY 42-Q114-D  
No. 13450  
Douglas County  
DOUGLAS COUNTY  
SURVEYOR

LEGEND

- ▲ SET NETWORK PT.
- FOUND MONUMENT USED AS NETWORK PT.
- FOUND MONUMENT
- R/W RIGHT OF WAY
- ( ) RECORD DATA PER ODOT DRG. 7B-23-1
- +— EXISTING HIGHWAY R/W CENTERLINE
- TERRESTRIAL OBSERVATION
- EXISTING RIGHT OF WAY
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- x- EXISTING FENCE



CAD FILE: 04012 HWY 42 ROS.DGN

FOUND MONUMENT COORDINATE TABLE LDP = LOCAL DATUM PLANE

PT. NO.	LDP NORTHING	LDP EASTING	STATION	OFFSET	DESCRIPTION
228	555965.5264	1236766.8056	2787+25.00	630.00' LT	FOUND 5/8" IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "I.E. ENG.", UP 0.5'
229	556263.7367	1236616.8710	2784+27.84	478.00' LT	FOUND 5/8" IRON ROD WITH A DAMAGED PLASTIC CAP, UP 0.3'. SHOT TOP OF IRON

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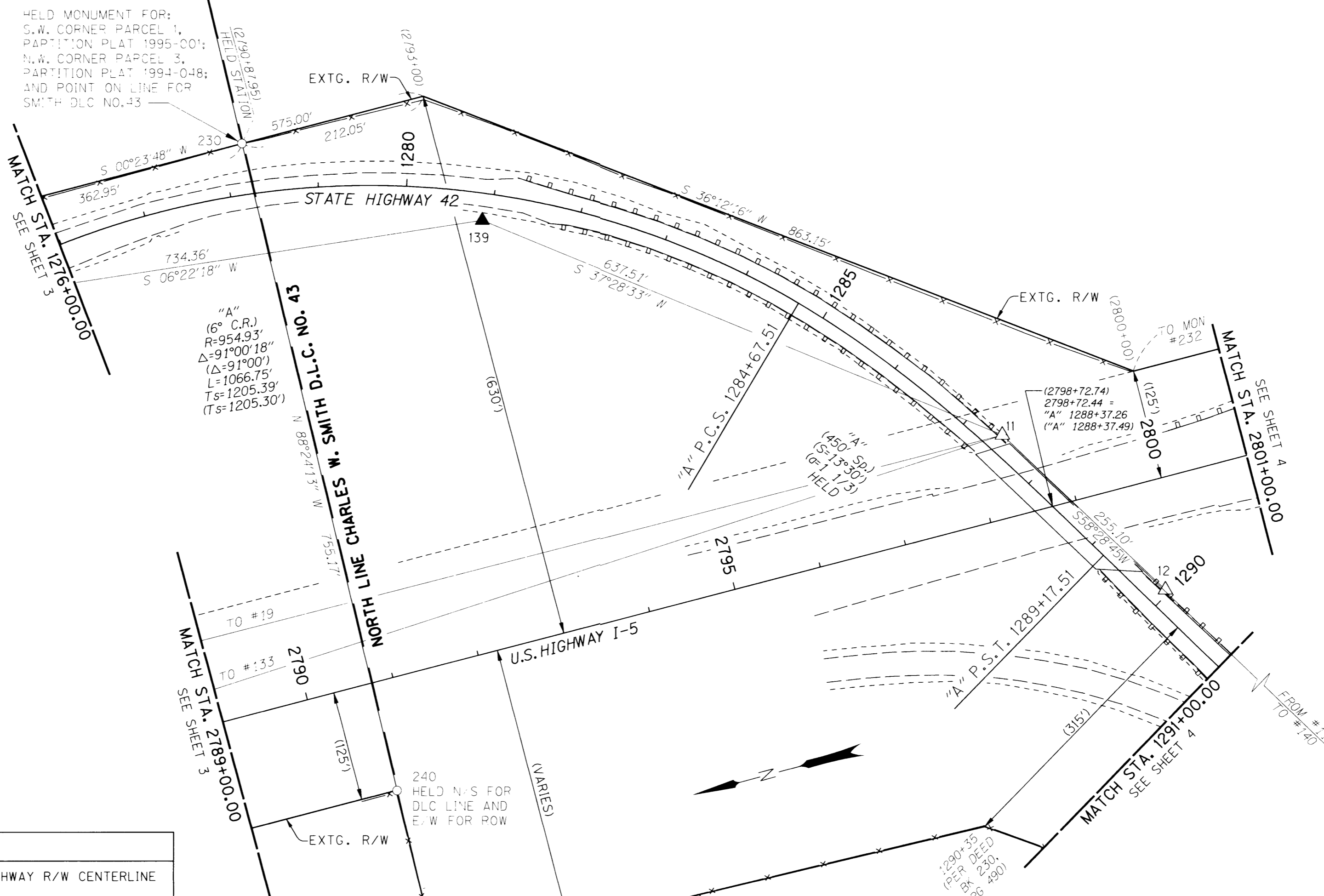
OREGON DEPARTMENT OF TRANSPORTATION  
HORIZONTAL CONTROL, RECOVERY AND RETRACEMENT MAP  
HWY 42 OVERPASS AT I-5 INTERCHANGE  
U.S. HIGHWAY 42  
DOUGLAS COUNTY, OREGON  
NOVEMBER 17, 2004 FOR ODOT REGION 3 SCALE: 1" = 100'  
355 CAPITOL ST. N.E., SALEM, OR 97301-3871  
KEY NO. 13450 SHEET 2 OF 4

S.W. 1/4 SEC. 1, S.E. 1/4 SEC. 2, N.E. 1/4 SEC. 11, AND N.W. 1/4 SEC. 12,  
T. 28 S., R. 6 W., W.M.

FILED  
Date: 11-30-2004 By: Jc  
ST-Hwy 42-011A-D  
DOCUMENT  
SERIAL

PARCEL 1  
PARTITION PLAT  
1995-001

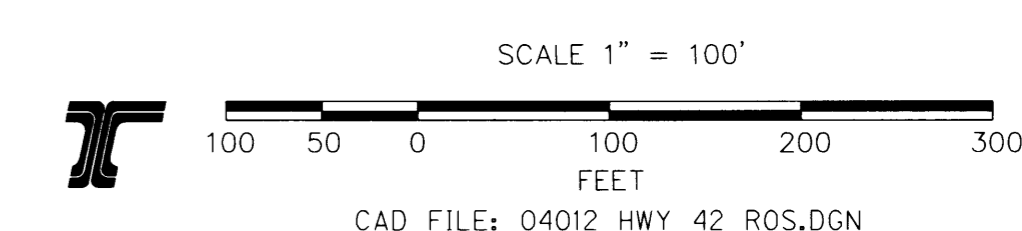
PARCEL 3  
PARTITION PLAT  
1994-048



HELD MONUMENT FOR:  
S.W. CORNER PARCEL 1,  
PARTITION PLAT 1995-001;  
N.W. CORNER PARCEL 3,  
PARTITION PLAT 1994-048;  
AND POINT ON LINE FOR  
SMITH DLC NO. 43

"A"  
(6° C.R.)  
R=954.93'  
Δ=91°00'18"  
(Δ=91°00')  
L=1066.75'  
Ts=1205.39'  
(Ts=1205.30')

LEGEND			
▲	SET NETWORK PT.	—+—	EXISTING HIGHWAY R/W CENTERLINE
△	FOUND NETWORK PT.	—	EXISTING RIGHT OF WAY
○	FOUND MONUMENT	- - - -	EDGE OF PAVEMENT
R/W	RIGHT OF WAY	- - - - -	EDGE OF GRAVEL
( )	RECORD DATA PER ODOT DRG. 7B-23-1	- x -	EXISTING FENCE
—	TERRESTRIAL OBSERVATION	—+—	EXISTING GUARDRAIL
		▭	EXISTING BRIDGE



REGISTERED  
PROFESSIONAL  
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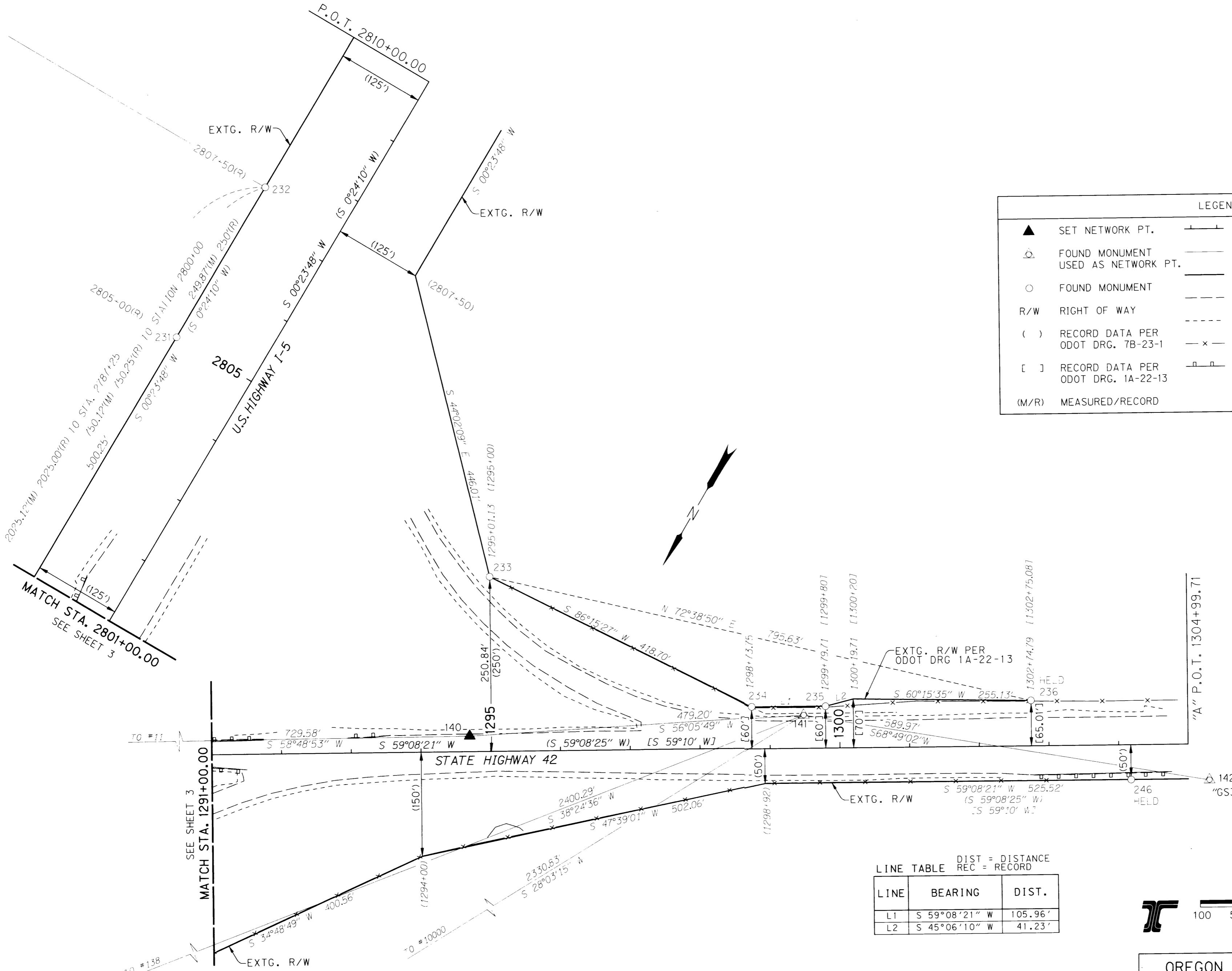
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HORIZONTAL CONTROL, RECOVERY AND RETRACEMENT MAP  
HWY 42 OVERPASS AT I-5 INTERCHANGE  
U.S. HIGHWAY 42  
DOUGLAS COUNTY, OREGON  
NOVEMBER 17, 2004 FOR ODOT REGION 3 SCALE: 1" = 100'  
355 CAPITOL ST. N.E., SALEM, OR 97301-3871  
KEY NO. 13450 SHEET 3 OF 4

FOUND MONUMENT COORDINATE TABLE LDP = LOCAL DATUM PLANE FND = FOUND

PT. NO.	LDP NORTHING	LDP EASTING	STATION	OFFSET	DESCRIPTION
230	555602.5830	1236764.2719	2790+87.95	629.98' LT	FND 5/8" IRON ROD, NO CAP, LEANS SLIGHTLY WEST. TIED EAST EDGE ON TOP (APPROX. BASE)
240	555623.6284	1236009.0650	2790+72.14	125.36' RT	FND 5/8" SMOOTH IRON ROD, NO CAP, 2.08' SE OF FENCE CORNER.

S.W. 1/4 SEC. 1, S.E. 1/4 SEC. 2, N.E. 1/4 SEC. 11, AND N.W. 1/4 SEC. 12,  
T. 28 S., R. 6 W., W.M.

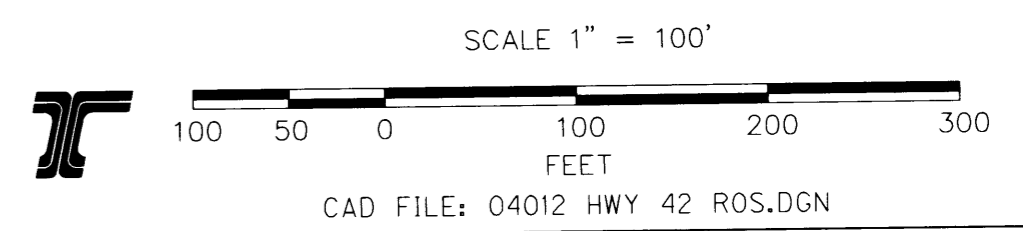
FILED  
Date: 11-30-2004  
St. Hwy 42-011 A-D  
DOUGLAS COUNTY  
SURVEYOR



LEGEND			
▲	SET NETWORK PT.	—+—	EXISTING HIGHWAY R/W CENTERLINE
⊙	FOUND MONUMENT USED AS NETWORK PT.	—	TERRESTRIAL OBSERVATION
○	FOUND MONUMENT	—	EXISTING RIGHT OF WAY
R/W	RIGHT OF WAY	- - - -	EDGE OF PAVEMENT
( )	RECORD DATA PER ODOT DRG. 7B-23-1	- - - -	EDGE OF GRAVEL
[ ]	RECORD DATA PER ODOT DRG. 1A-22-13	- x -	EXISTING FENCE
(M/R)	MEASURED/RECORD	— —	EXISTING GUARDRAIL

LINE TABLE  
DIST = DISTANCE  
REC = RECORD

LINE	BEARING	DIST.
L1	S 59°08'21" W	105.96'
L2	S 45°06'10" W	41.23'



PT. NO.	LDP NORTHING	LDP EASTING	STATION	OFFSET	DESCRIPTION
231	554193.8202	1236249.4660	2805+00.25	124.94' LT	FND 3/4" IRON ROD WITH 4"x4" WOOD POST. MARKINGS ON POST ILLEGIBLE.
232	553943.9555	1236247.7956	2807+50.12	125.00' LT	FND 3/4" IRON ROD IN CONCRETE WITH FENCE POST. IRON STRAIGHT, LEANS NE, TIED TOP.
233	554266.4394	1235687.7808	"A" 1295+01.13 = 2804+31.52	250.84' LT 437.23' RT	FND 3/4" IRON ROD. IRON STRAIGHT. FENCE POST DISTURBED, LEANS OVER IRON ROD.
234	554238.7247	1235269.8692	"A" 1298+74.09	60.27' LT	FND 5/8" IRON ROD W/YELLOW PLASTIC CAP STAMPED "O.S.H.D. R/W" 2' S. OF FENCE CORNER.
235	554184.6536	1235178.8934	"A" 1299+79.92	60.01' LT	FND 5/8" IRON ROD W/YELLOW PLASTIC CAP "O.S.H.D. R/W", NEAR PADDLE "S.H.R.W 1299+80"
236	554029.1404	1234928.3629	"A" 1302+74.75	65.00' LT	FND 5/8" IRON ROD W/YELLOW PLASTIC CAP "O.S.H.D. R/W", NEAR PADDLE "S.H.R.W 1302+75"
246	554054.6725	1234746.7884	"A" 1304+17.52	50.06' RT	FND 1" IRON PIPE, UP .5'

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HWY 42 OVERPASS AT I-5 INTERCHANGE  
U.S. HIGHWAY 42  
DOUGLAS COUNTY, OREGON  
NOVEMBER 17, 2004 FOR ODOT REGION 3 SCALE: 1" = 100'  
355 CAPITOL ST. N.E., SALEM, OR 97301-3871  
KEY NO. 13450 SHEET 4 OF 4