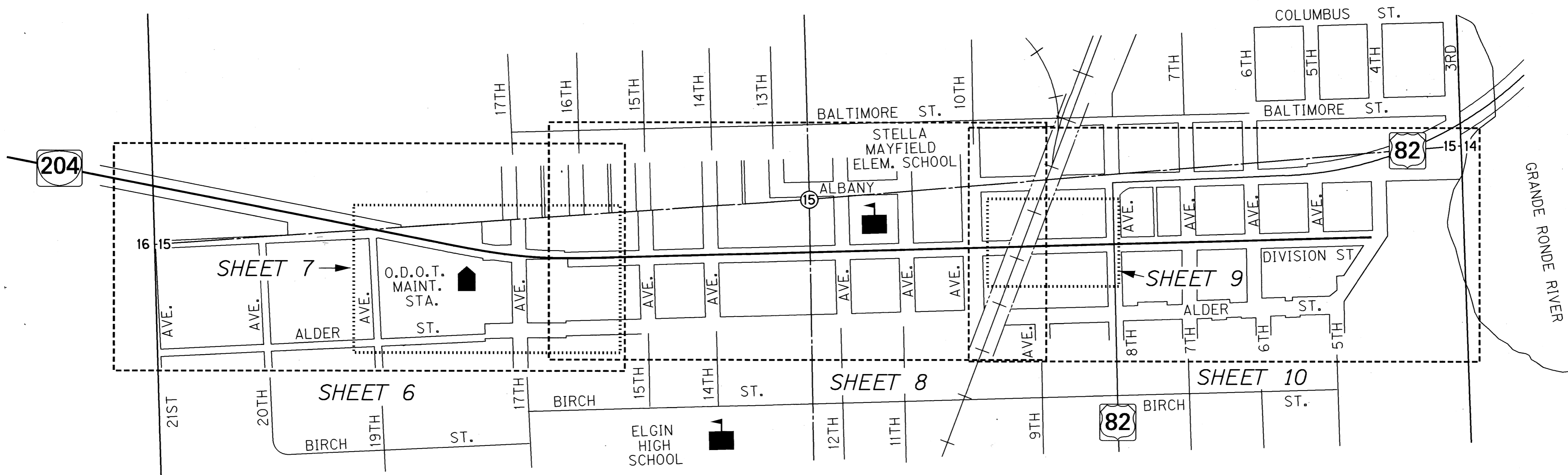


SURVEY LOCATED IN THE NW, SW, SE, & NE 1/4'S OF SEC. 15,  
T1N, R39E OF THE W.M., UNION COUNTY, OREGON



**PURPOSE OF SURVEY**

THE PURPOSE OF THIS SURVEY WAS TO RECOVER EXISTING CENTERLINES AND RIGHTS OF WAY FOR A MODERNIZATION PROJECT WITHIN THE CITY OF ELGIN ON THE WESTON-ELGIN HIGHWAY (OREGON 204) FROM THE WEST CITY LIMITS TO THE INTERSECTION WITH THE WALLOWA LAKE HIGHWAY (OREGON 82). BECAUSE CONSTRUCTION MAY DISTURB OR DESTROY EXISTING RECORD SURVEY MONUMENTS, THIS SURVEY ALSO SERVES TO REFERENCE THOSE MONUMENTS IN CONFORMANCE WITH O.R.S. 209.150(i) AND O.R.S. 209.150(i)(b).

**BASIS OF BEARINGS**

THE BASIS OF BEARINGS FOR THIS SURVEY IS THE OREGON COORDINATE SYSTEM OF 1983, NORTH ZONE, AS DETERMINED FROM GPS OBSERVATIONS. SEE SHEET 2 FOR CONTROL MONUMENTATION USED IN THIS SURVEY.

**SURVEY REFERENCES**

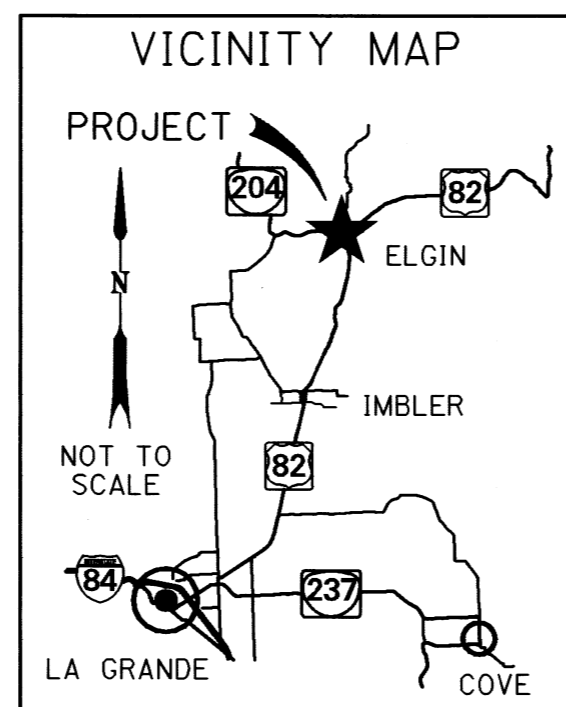
13	31-72	34-76	54-82	033-2000
31	28-73	32-77	24-84	001-2001
152	27-74	47-77	23-88	
20-65	5-75	51-77	006-1997	
24-68	9-75	149-78	028-1998	
3-71	37-75	150-78	007-1999	
13-72	63-75	55-80	012-1999	

**PLAT REFERENCES**

ELGIN	THOMPSON'S ADDITION
NORTH ELGIN	PARTITION PLAT NO. 1994-01
SOMMERS' ADDITION	PARTITION PLAT NO. 1999-27

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- SHEET 1 SHEET LAYOUT  
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BASIS OF BEARINGS  
SURVEY REFERENCES
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GPS AND TERRESTRIAL  
CONTROL NETWORK
- SHEET 3 PROJECT CONTROL DATA  
AND COORDINATES
- SHEET 4 HIGHWAY 204 CENTERLINE
- SHEET 5 DIVISION STREET CENTERLINE
- SHEET 6 RIGHT-OF-WAY RECOVERY
- SHEET 7 RIGHT-OF-WAY RECOVERY
- SHEET 8 RIGHT-OF-WAY RECOVERY
- SHEET 9 RIGHT-OF-WAY RECOVERY
- SHEET 10 RIGHT-OF-WAY RECOVERY
- SHEET 11 RECOVERED MONUMENT DATA



**UNION COUNTY SURVEYOR**  
 Date Rec'd 12/9/03  
 Date Paid 12/31/03  
 By *Ang T. Blair*  
 File No. 045-2003

REGISTERED PROFESSIONAL LAND SURVEYOR  
**JOHN A. CARLSON**  
 OREGON JULY 15, 1983  
 2044  
 RENEWS 12-31-2003

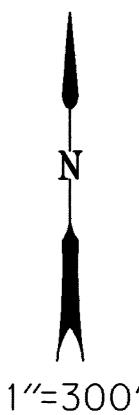
TO CONVERT FEET TO METERS MULTIPLY BY 0.3048 REGION 5

**CONTROL AND RIGHT OF WAY RETRACEMENT SURVEY FOR OREGON DEPT. OF TRANSPORTATION REGION 5**

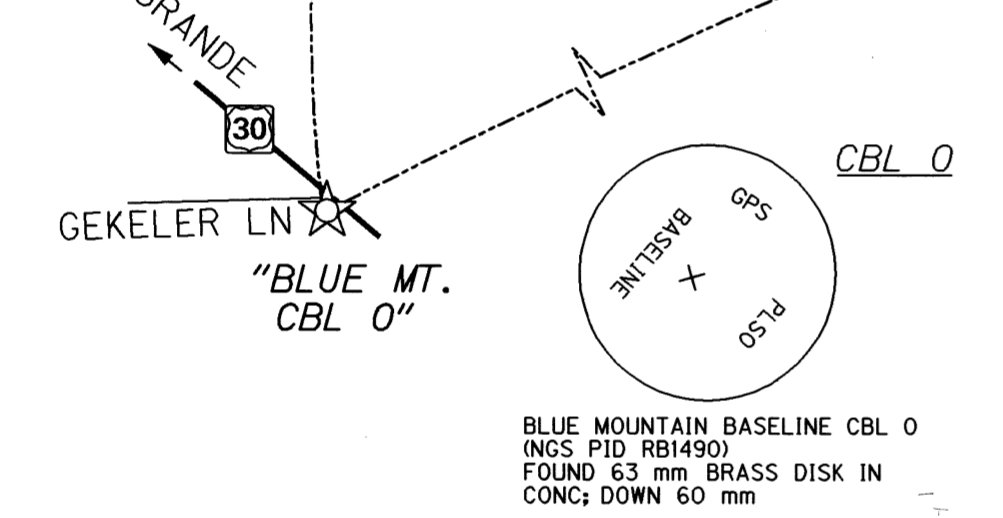
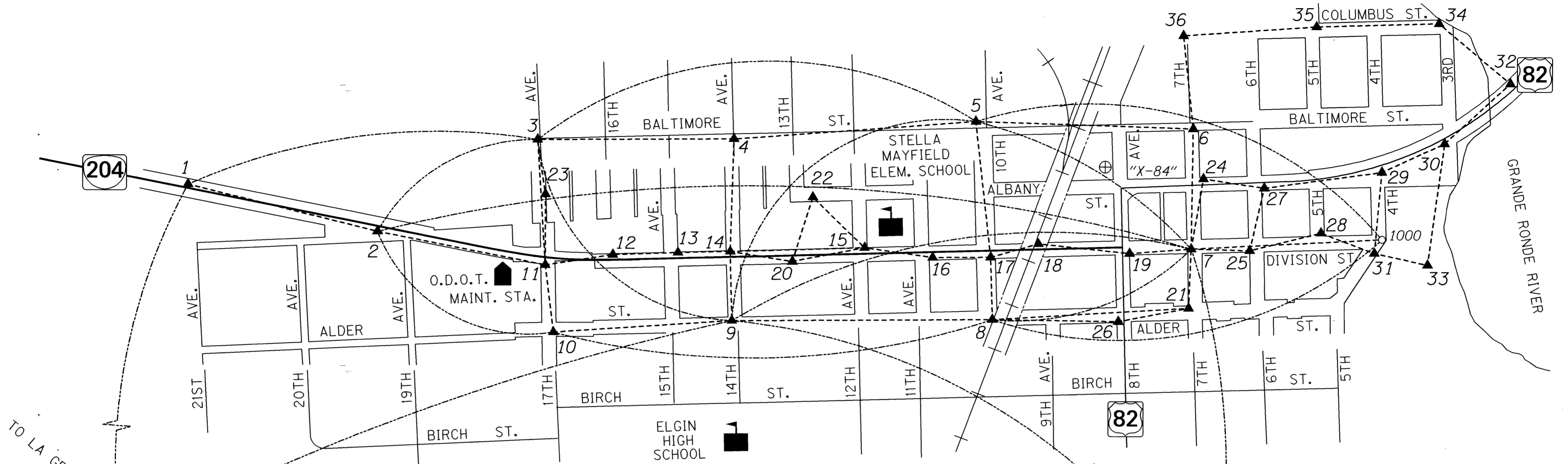
PROJECT SITE LOCATED IN THE NW, SW, SE, & NE 1/4'S OF SEC. 15, T1N, R39E OF THE W.M.

ELGIN CITY SECTION UNION COUNTY  
 WESTIN-ELGIN HIGHWAY 204  
 MP 40.31 TO MP 40.84  
 KEY NO. 12033

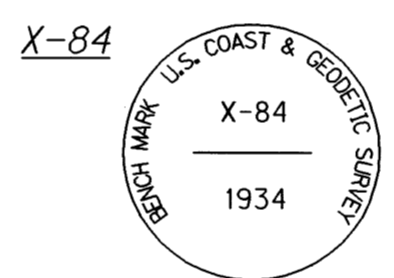
**otak** 17355 SW BOONES FERRY RD. PROJECT NO. 10019-003-003  
 LAKE OSWEGO, OREGON 97035 NOVEMBER 19, 2003  
 PHONE: (503) 635-3618 SHEET 1 OF 11  
 FAX: (503) 635-5395  
 www.otak.com



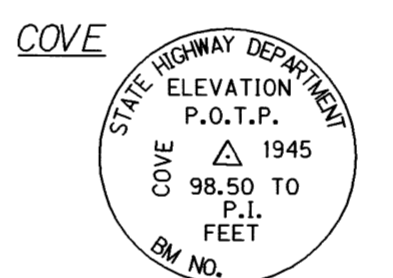
SURVEY LOCATED IN THE NW, SW, SE, & NE 1/4'S OF SEC. 15,  
T1N, R39E OF THE W.M., UNION COUNTY, OREGON



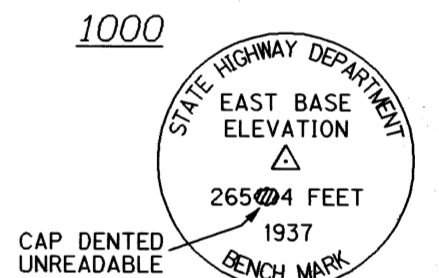
LEGEND	
☆	FOUND G.P.S. STATION
○	FOUND MONUMENT AS SHOWN
▲	SET CONTROL MONUMENT AS DESCRIBED ON SHEET 3
⊕	FOUND BENCH MARK
—	GPS OBSERVATION
- - -	TERRESTRIAL OBSERVATION



(NGS PID RA0918)  
FOUND 76 mm BRASS DISK MOUNTED  
VERTICALLY IN EAST WALL OF OLD  
CITY HALL BUILDING



(NGS PID RA 0822)  
FOUND 76 mm BRASS DISK IN  
CONC; DOWN 40 mm AT TOP OF  
DITCH BANK



(NGS PID RA0916)  
76 mm BRASS DISK IN  
CONC; DOWN 250 mm

CONTROL NARRATIVE

**TERRESTRIAL OBSERVATIONS**  
TERRESTRIAL OBSERVATIONS WERE MADE ON AUGUST 20 THROUGH AUGUST 22, 2002, AND JULY 7 THROUGH JULY 15, 2003 USING A GEODIMETER 610 TOTAL STATION INSTRUMENT ADJUSTED TO THE FACTORY SPECIFICATIONS OF; 3" VERTICAL CIRCLE, 3" HORIZONTAL CIRCLE, AND +/- (2 MM + 2 PPM) EDM. A MINIMUM OF TWO SETS OF HORIZONTAL AND VERTICAL ANGLES WERE OBSERVED.

**GPS OBSERVATIONS**  
GPS OBSERVATIONS WERE MADE ON AUGUST 15 AND AUGUST 16, 2002 USING LEICA SR399 DUAL FREQUENCY RECEIVERS. THE OBSERVATIONS WERE PROCESSED USING LEICA SKI-PRO VERSION 2.50. TRIVIAL BASELINES WERE NOT INCLUDED.

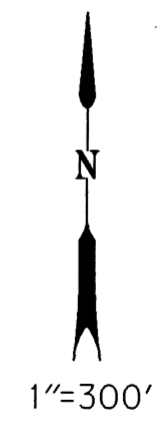
**HORIZONTAL NETWORK ADJUSTMENT**  
THE GPS AND TERRESTRIAL OBSERVATIONS WERE ADJUSTED SIMULTANEOUSLY USING THE LEAST SQUARES ADJUSTMENT PROGRAM, STAR\*NET VERSION 6.0.25. THE NETWORK WAS CONSTRAINED TO THE RECORD NAD '83(98) MONUMENTS/POSITIONS OF NGS HARN STATIONS "COVE" AND "CBL 0" (ALSO KNOWN AS "BLUE MOUNTAIN CBL 0"). THE LEAST SQUARES ADJUSTMENT PASSED THE CHI SQUARE TEST AT THE 5% LEVEL WITH THE FOLLOWING STANDARD ERROR SETTINGS: DISTANCES AT +/- (2 MM + 2 PPM), HORIZONTAL ANGLES AT 3 SECONDS, VERTICAL ANGLES AT 4 SECONDS, AND TARGET CENTERING ERRORS AT 2 MILLIMETERS. THE ERROR ELLIPSE SEMI-MAJOR AXIS LENGTHS AT THE 95% CONFIDENCE REGION FOR THE NETWORK CONTROL MONUMENTS WERE 43 MILLIMETERS OR LESS, RELATIVE TO STATIONS "COVE" AND "CBL 0"; 15 MILLIMETERS OR LESS RELATIVE TO EACH OTHER.

**VERTICAL CONTROL**  
LEVELS WERE RUN USING A LEICA NA2002 ELECTRONIC LEVEL ON AUGUST 15 AND AUGUST 20, 2002. THE LINES AND CIRCUITS WERE CONSTRAINED TO THE PUBLISHED NAVD '88 ELEVATIONS OF NGS BENCH MARKS "EAST BASE" AND "X 84". THE DATA WAS ADJUSTED USING THE LEAST SQUARES ADJUSTMENT PROGRAM STAR\*LEV. THE ADJUSTMENT PASSED THE CHI SQUARE TEST AT THE 5% LEVEL WITH A STANDARD ERROR SETTING OF 2 MILLIMETERS PER KILOMETER. THE MAXIMUM STANDARD DEVIATION OF ANY POINT WAS LESS THAN 2 MILLIMETERS. ELLIPSOIDAL HEIGHTS WERE DERIVED BY HOLDING THE ADJUSTED NAVD '88 ORTHOMETRIC ELEVATIONS OF ALL "SET" CONTROL POINTS, (\*1 THROUGH \*21), THE GPS OBSERVATION DATA AND UTILIZING THE NGS PROGRAM "GE01D99" FOR GEOID SEPARATION.

**LOCAL DATUM PLANE COORDINATES (LDP)**  
LOCAL DATUM PLANE (LDP) COORDINATES ARE STATE PLANE COORDINATES THAT HAVE BEEN SCALED FROM THE STATE PLANE GRID TO THE GROUND SURFACE. THE SCALE FACTOR IS BASED ON A PROJECT'S AVERAGE LATITUDE AND ELEVATION. FOR THIS SURVEY, THE OREGON NORTH COORDINATE SYSTEM (OCS) VALUES WERE SCALED TO A LOCAL DATUM PLANE USING THE COMBINED (GRID AND ELEVATION) SCALE FACTOR AT CONTROL POINT \*15. TO CONVERT FROM LDP COORDINATES TO OREGON STATE PLANE, NORTH COORDINATES, MULTIPLY THE LDP COORDINATES BY 0.9997928914.

UNION COUNTY  
SURVEYOR  
12/8/03  
12/31/03  
John A. Carlson  
No. 045-2003

REGISTERED  
PROFESSIONAL  
LAND SURVEYOR  
John A. Carlson  
OREGON  
JULY 15, 1983  
JOHN A. CARLSON  
2044  
RENEWS 12-31-2003



1"=300'



TO CONVERT FEET TO METERS MULTIPLY BY 0.3048

CONTROL AND RIGHT OF WAY RETRACEMENT SURVEY FOR  
OREGON DEPT. OF TRANSPORTATION  
REGION 5

PROJECT SITE LOCATED IN THE NW, SW, SE, & NE 1/4'S  
OF SEC. 15, T1N, R39E OF THE W.M.

ELGIN CITY SECTION UNION COUNTY  
WESTIN-ELGIN HIGHWAY 204  
MP 40.31 TO MP 40.84  
KEY NO. 12033

otak 17355 SW BOONES FERRY RD.  
LAKE OSWEGO, OREGON 97035  
PHONE: (503) 635-3618  
FAX: (503) 635-5395  
www.otak.com

PROJECT NO. 10019-003-003  
NOVEMBER 19, 2003  
SHEET 2 OF 11

SURVEY LOCATED IN THE NW, SW, SE, & NE 1/4'S OF SEC. 15,  
T1N, R39E OF THE W.M., UNION COUNTY, OREGON

PROJECT CONTROL  
POSITIONS AND COORDINATES

STATION NAME	LAT. '83(98) (NORTH)	LONG. '83(98) (WEST)	ELLIPSE HEIGHT (m)	OCS NORTHING (m)	OCS EASTING (m)	LDP NORTHING(FT)	LDP EASTING(FT)	NAVD '88 ORTHO. EL. (FT)	GEOIDAL SEPARATION (m)	CONVERGENCE ANGLE	SCALE FACTOR	COMBINED FACTOR	DESCRIPTION
1	45°33'57".12425	117°55'57".59730	814.03	214228.358	2700373.716	702994.541	8861329.078	2729.728	-17.99	1°49'14".6	0.99991858	0.99979099	SET 5/8"x30" REBAR WITH "OTAK CONTROL" RED PLASTIC CAP
2	45°33'54".93166	117°55'46".45302	810.34	214168.388	2700617.394	702797.746	8862128.711	2717.595	-17.99	1°49'22".5	0.99991851	0.99979149	SET 5/8"x30" REBAR WITH "OTAK CONTROL" RED PLASTIC CAP
3	45°33'58".57096	117°55'36".78289	806.87	214287.352	2700823.394	703188.130	8862804.705	2706.224	-17.98	1°49'29".3	0.99991863	0.99979216	SET PK NAIL WITH 1-1/2" "OTAK CONTROL" BRASS WASHER
4	45°33'58".35622	117°55'25".14672	802.99	214288.766	2701075.788	703192.769	8863632.940	2693.455	-17.98	1°49'37".6	0.99991862	0.99979276	SET 5/8"x30" REBAR WITH "OTAK CONTROL" RED PLASTIC CAP
5	45°33'58".78945	117°55'10".78033	798.31	214312.073	2701386.714	703269.252	8864653.251	2678.097	-17.97	1°49'47".8	0.99991864	0.99979350	SET 5/8"x30" REBAR WITH "OTAK CONTROL" RED PLASTIC CAP
6	45°33'58".21284	117°54'57".90789	795.64	214303.201	2701666.258	703240.138	8865570.577	2669.304	-17.96	1°49'56".9	0.99991862	0.99979390	SET 5/8"x30" REBAR WITH "OTAK CONTROL" RED PLASTIC CAP
7	45°33'53".20662	117°54'58".23900	795.46	214148.505	2701664.024	702732.503	8865563.248	2668.691	-17.96	1°49'56".7	0.99991845	0.99979376	SET 5/8"x30" REBAR WITH "OTAK CONTROL" RED PLASTIC CAP
8	45°33'50".50595	117°55'10".15892	798.62	214056.917	2701408.348	702431.955	8864724.242	2679.098	-17.97	1°49'48".2	0.99991836	0.99979318	SET 5/8"x30" REBAR WITH "OTAK CONTROL" RED PLASTIC CAP
9	45°33'50".78040	117°55'25".59883	803.23	214054.702	2701073.446	702424.685	8863625.256	2694.252	-17.97	1°49'37".3	0.99991837	0.99979246	SET 5/8"x30" REBAR WITH "OTAK CONTROL" RED PLASTIC CAP
10	45°33'50".51508	117°55'36".20051	806.82	214039.191	2700843.936	702373.786	8862872.110	2706.017	-17.98	1°49'29".8	0.99991836	0.99979189	SET PK NAIL WITH 1-1/2" "OTAK CONTROL" BRASS WASHER
11	45°33'53".32788	117°55'36".55659	807.26	214125.734	2700833.453	702657.776	8862837.713	2707.467	-17.98	1°49'29".5	0.99991845	0.99979192	SET PK NAIL WITH 1-1/2" "OTAK CONTROL" BRASS WASHER
12	45°33'53".67691	117°55'32".53622	805.39	214139.280	2700920.243	702702.228	8863122.513	2701.345	-17.98	1°49'32".4	0.99991846	0.99979222	SET PK NAIL WITH 1-1/2" "OTAK CONTROL" BRASS WASHER
13	45°33'53".68461	117°55'28".67034	804.23	214142.188	2701004.020	702711.772	8863397.431	2697.533	-17.98	1°49'35".1	0.99991846	0.99979241	SET PK NAIL WITH 1-1/2" "OTAK CONTROL" BRASS WASHER
14	45°33'53".66521	117°55'25".57166	803.27	214143.731	2701071.196	702716.837	8863617.871	2694.383	-17.98	1°49'37".3	0.99991846	0.99979256	SET PK NAIL WITH 1-1/2" "OTAK CONTROL" BRASS WASHER
15	45°33'53".66635	117°55'17".60376	801.13	214149.277	2701243.882	702735.036	8864184.544	2687.336	-17.97	1°49'43".0	0.99991846	0.99979289	SET PK NAIL WITH 1-1/2" "OTAK CONTROL" BRASS WASHER
16	45°33'53".16900	117°55'13".58266	799.97	214136.715	2701331.520	702693.812	8864472.129	2683.510	-17.97	1°49'45".8	0.99991845	0.99979306	SET 5/8"x30" REBAR WITH "OTAK CONTROL" RED PLASTIC CAP
17	45°33'53".10678	117°55'10".14539	799.07	214137.175	2701406.077	702695.322	8864716.788	2680.574	-17.97	1°49'48".2	0.99991844	0.99979319	SET 5/8"x30" REBAR WITH "OTAK CONTROL" RED PLASTIC CAP
18	45°33'53".61023	117°55'07".28896	798.59	214154.687	2701467.488	702752.789	8864918.310	2678.999	-17.97	1°49'50".3	0.99991846	0.99979329	SET PK NAIL WITH 1-1/2" "OTAK CONTROL" BRASS WASHER
19	45°33'53".09037	117°55'01".90494	796.73	214142.377	2701584.687	702712.392	8865302.904	2672.884	-17.96	1°49'54".9	0.99991844	0.99979356	SET PK NAIL WITH 1-1/2" "OTAK CONTROL" BRASS WASHER
20	45°33'53".17517	117°55'21".91222	802.12	214131.142	2701150.989	702675.525	8863879.711	2690.604	-17.97	1°49'39".9	0.99991845	0.99979272	SET 5/8"x30" REBAR WITH "OTAK CONTROL" RED PLASTIC CAP
21	45°33'50".73809	117°54'58".50166	795.27	214072.158	2701660.768	702481.965	8865552.562	2668.081	-17.96	1°49'56".5	0.99991837	0.99979371	SET 5/8"x30" REBAR WITH "OTAK CONTROL" RED PLASTIC CAP
22	-	-	-	-	-	702947.883	8863966.203	2688.793	-	-	-	-	SET 5/8"x30" REBAR WITH "OTAK CONTROL" RED PLASTIC CAP
23	-	-	-	-	-	702956.835	8862837.344	2706.230	-	-	-	-	SET 5/8"x30" REBAR WITH "OTAK CONTROL" RED PLASTIC CAP
24	-	-	-	-	-	703029.152	8865614.390	2670.016	-	-	-	-	SET PK NAIL WITH 1-1/2" "OTAK CONTROL" BRASS WASHER
25	-	-	-	-	-	702741.120	8865812.704	2665.794	-	-	-	-	SET PK NAIL WITH 1-1/2" "OTAK CONTROL" BRASS WASHER
26	-	-	-	-	-	702424.278	8865255.891	2671.844	-	-	-	-	SET PK NAIL WITH 1-1/2" "OTAK CONTROL" BRASS WASHER
27	-	-	-	-	-	702990.250	8865870.821	2667.008	-	-	-	-	SET PK NAIL WITH 1-1/2" "OTAK CONTROL" BRASS WASHER
28	-	-	-	-	-	702801.427	8866110.805	2663.104	-	-	-	-	SET 5/8"x30" REBAR WITH "OTAK CONTROL" RED PLASTIC CAP
29	-	-	-	-	-	703058.010	8866367.530	2660.469	-	-	-	-	SET PK NAIL WITH 1-1/2" "OTAK CONTROL" BRASS WASHER
30	-	-	-	-	-	703180.351	8866631.967	2659.613	-	-	-	-	SET PK NAIL WITH 1-1/2" "OTAK CONTROL" BRASS WASHER
31	-	-	-	-	-	702735.330	8866349.132	2657.221	-	-	-	-	SET 5/8"x30" REBAR WITH "OTAK CONTROL" RED PLASTIC CAP
32	-	-	-	-	-	703433.185	8866909.113	2661.791	-	-	-	-	SET PK NAIL WITH 1-1/2" "OTAK CONTROL" BRASS WASHER
33	-	-	-	-	-	702666.593	8866560.837	2653.238	-	-	-	-	SET 5/8"x30" REBAR WITH "OTAK CONTROL" RED PLASTIC CAP
34	-	-	-	-	-	703687.266	8866607.279	2650.144	-	-	-	-	SET 5/8"x30" REBAR WITH "OTAK CONTROL" RED PLASTIC CAP
35	-	-	-	-	-	703672.024	8866091.163	2656.083	-	-	-	-	SET PK NAIL WITH 1-1/2" "OTAK CONTROL" BRASS WASHER
36	-	-	-	-	-	703633.159	8865529.364	2666.675	-	-	-	-	SET 5/8"x30" REBAR WITH "OTAK CONTROL" RED PLASTIC CAP
1000	45°33'53".30537	117°54'46".96060	791.76	214159.377	2701908.361	702768.178	8866365.042	2656.526*	-17.95	1°50'04".7	0.99991845	0.99979435	FOUND 3" BRASS DISK "EAST BASE" (SEE SKETCH SHEET 2)
COVE	45°17'48".36518	117°49'12".11165	845.97	184625.298	2710153.236	-	-	-	-17.24	1°54'02".2	0.99989707	0.99976447	FOUND 3" BRASS DISK (SEE SKETCH SHEET 2)
CBL 0	45°18'39".41693	118°03'52".26070	818.77	185593.511	2690940.162	-	-	-	-17.71	1°43'38".0	0.99989766	0.99976932	FOUND 2-1/2" BRASS DISK (SEE SKETCH SHEET 2)
X 84	(BENCH MARK)	-	-	-	-	-	-	2679.882*	-	-	-	-	FOUND 3" BRASS DISK "USCGS X-84 1934"

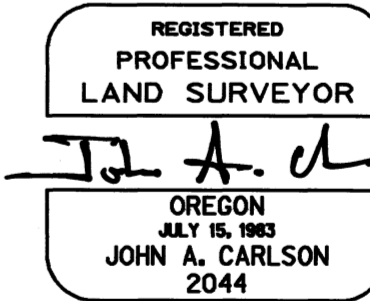
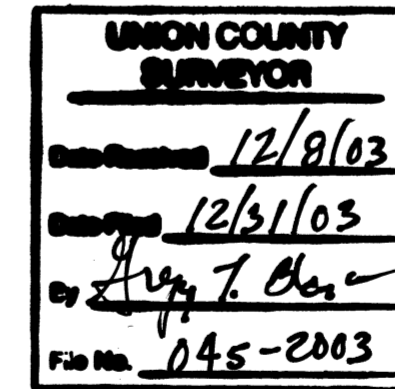
NOTES: LOCAL DATUM PLANE (LDP) COORDINATES AND ORTHOMETRIC ELEVATIONS DISPLAYED IN UNITS OF INTERNATIONAL FEET.  
ORTHOMETRIC ELEVATIONS SHOWN WITH AN ' \* ' WERE HELD FOR VERTICAL CONTROL.  
LDP COORDINATES FOR STATIONS 22 THROUGH 36 WERE DETERMINED BY A LOCAL LEAST SQUARES ADJUSTMENT HOLDING  
THE PREVIOUSLY CALCULATED LDP COORDINATES (AS APPROPRIATE) OF STATIONS 1 THROUGH 21.

TERRESTRIAL DATA (LDP)

FROM/TO	BEARING	DISTANCE (FT)	FROM/TO	BEARING	DISTANCE (FT)	FROM/TO	BEARING	DISTANCE (FT)
1-2	S76°10'27"E	823.494	11-23	N00°04'14"W	299.062	24-7	S09°46'55"W	301.027
2-1.1	S78°49'56"E	722.688	12-13	N88°00'41"E	275.082	24-27	S81°22'25"E	259.367
3-4	N89°40'45"E	828.249	13-14	N88°41'03"E	220.498	25-7	S88°01'17"W	249.606
4-14	S01°48'49"W	476.171	14-15	N88°09'38"E	566.964	25-27	N13°07'52"E	255.817
4-5	N85°42'47"E	1023.172	14-20	S81°02'02"E	265.081	25-28	N78°33'48"E	304.140
5-6	S88°10'56"E	917.789	15-16	S81°50'33"E	290.527	26-8	N89°10'22"W	531.706
5-17	S06°19'03"E	577.437	15-22	N45°43'47"W	304.921	27-29	N82°13'54"E	501.309
6-7	S00°49'39"W	507.687	16-17	N89°38'48"E	244.664	28-31	S74°29'57"E	247.323
7-1000	N87°27'08"E	802.588	17-18	N74°05'01"E	209.554	29-30	N65°10'21"E	291.365
8-17	N01°37'15"W	263.471	18-19	S84°00'15"E	386.708	29-31	S03°15'48"W	323.205
8-21	N86°32'42"E	829.829	19-7	N85°34'59"E	261.119	30-32	N47°37'35"E	375.148
9-8	N89°37'16"E	1099.010	19-26	S09°16'02"W	291.926	30-33	S07°52'57"W	518.658
9-14	N01°26'53"W	292.244	20-15	N78°57'11"W	310.585	31-33	S72°00'44"E	222.585
10-9	N86°08'01"E	754.863	20-22	N17°37'04"E	285.761	32-34	N49°54'35"W	394.537
11-3	N03°33'41"W	531.380	21-7	N02°26'31"E	250.765	34-35	S88°18'30"W	516.342
11-10	S06°54'23"E	286.067	21-26	S78°59'46"W	302.228	35-36	S86°02'34"W	563.143
11-12	N81°07'44"E	288.251	23-3	N08°01'57"W	233.586	36-6	S05°59'11"E	395.177

LEGEND

OCS DENOTES OREGON COORDINATE SYSTEM OF 1983(98), NORTH ZONE  
LDP DENOTES LOCAL DATUM PLANE  
m DENOTES METRIC UNITS  
FT DENOTES INTERNATIONAL FEET



RENEWS 12-31-2003



TO CONVERT FEET TO METERS MULTIPLY BY 0.3048

CONTROL AND RIGHT OF WAY RETRACEMENT SURVEY FOR  
OREGON DEPT. OF TRANSPORTATION  
REGION 5

PROJECT SITE LOCATED IN THE NW, SW, SE, & NE 1/4'S  
OF SEC. 15, T1N, R39E OF THE W.M.

ELGIN CITY SECTION UNION COUNTY  
WESTIN-ELGIN HIGHWAY 204  
MP 40.31 TO MP 40.84  
KEY NO. 12033



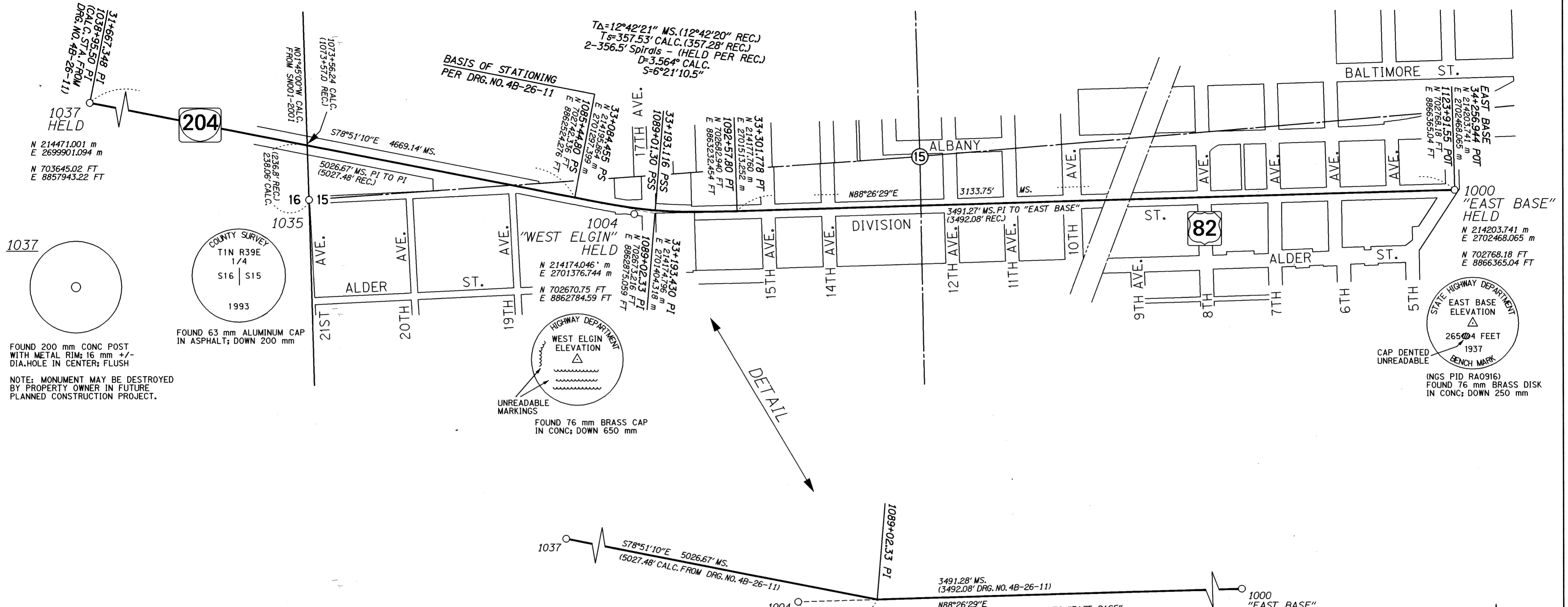
17355 SW BOONES FERRY RD.  
LAKE OSWEGO, OREGON 97035  
PHONE: (503) 635-3618  
FAX: (503) 635-5395  
www.otak.com

PROJECT NO. 10019-003-003  
NOVEMBER 19, 2003  
SHEET 3 OF 11

SURVEY NUMBER 045-2003

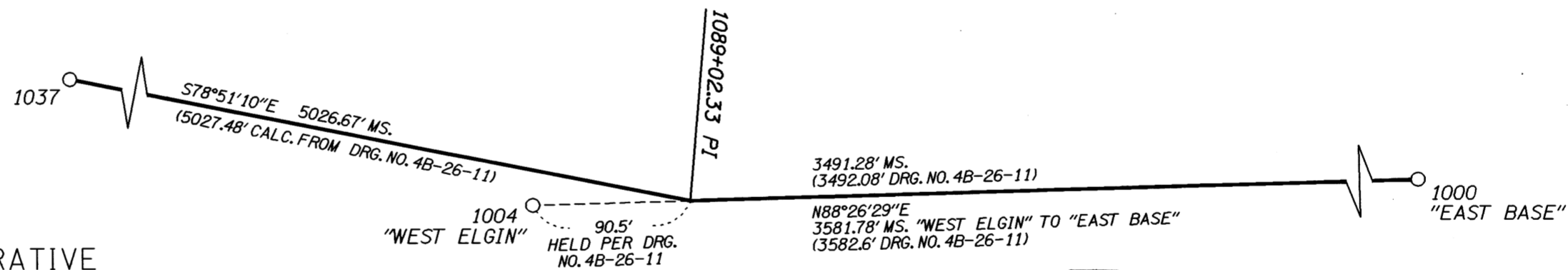
SURVEY LOCATED IN THE NW, SW, SE, & NE 1/4'S OF SEC. 15,  
T1N, R39E OF THE W.M., UNION COUNTY, OREGON

WESTON-ELGIN HIGHWAY (OREGON 204) CENTERLINE RECOVERY



HWY. 204 CENTERLINE RECOVERY NARRATIVE

HELD RECOVERED MONUMENT NO. 1037 AS THE CENTERLINE P.I. AS SHOWN. HELD "EAST BASE" AND "WEST ELGIN" AS POINTS ON THE EASTERLY TANGENT PER DRAWING NO. 4B-26-11. SET THE P.I. AS A P.O.T. BETWEEN "EAST BASE" AND "WEST ELGIN" AT 90.5 FEET EASTERLY OF "WEST ELGIN" PER DRAWING NO. 4B-26-11. HELD CURVE AS TWO-356.5 FOOT BACK TO BACK SPIRALS PER DRAWING NO. 4B-26-11.



NOT TO SCALE

**UNION COUNTY SURVEYOR**  
 12/9/03  
 12/31/03  
 By *John A. Carlson*  
 File No. 045-2003

REGISTERED PROFESSIONAL LAND SURVEYOR  
*J.A.C.*  
 OREGON JULY 15, 1983  
 JOHN A. CARLSON  
 2044  
 RENEWS 12-31-2003



1"=300'



REGION 5

LEGEND	
○	FOUND MONUMENT AS DESCRIBED ON SHEET 11
---	QUARTER SECTION LINE
m	LOCAL DATUM PLANE COORDINATES IN METERS
FT	LOCAL DATUM PLANE COORDINATES IN INTERNATIONAL FEET
MS.	MEASURED VALUE
CALC.	CALCULATED VALUE
REC.	RECORD DATA FROM DRAWING NUMBER 4B-26-11

TO CONVERT FEET TO METERS MULTIPLY BY 0.3048

**CONTROL AND RIGHT OF WAY RETRACEMENT SURVEY FOR OREGON DEPT. OF TRANSPORTATION REGION 5**

PROJECT SITE LOCATED IN THE NW, SW, SE, & NE 1/4'S OF SEC. 15, T1N, R39E OF THE W.M.

ELGIN CITY SECTION UNION COUNTY  
 WESTON-ELGIN HIGHWAY 204  
 MP 40.31 TO MP 40.84  
 KEY NO. 12033



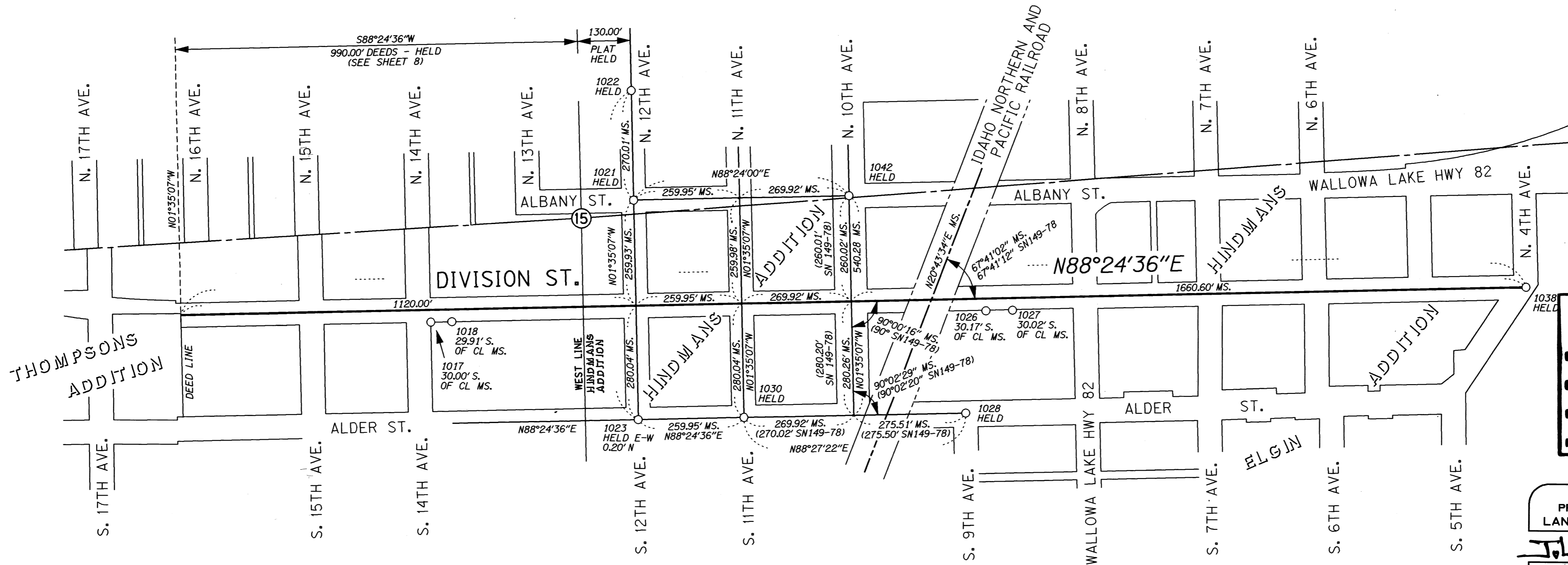
17355 SW BOONES FERRY RD.  
 LAKE OSWEGO, OREGON 97035  
 PHONE: (503) 635-3618  
 FAX: (503) 635-5395  
 www.otak.com

PROJECT NO. 10019-003-003  
 NOVEMBER 19, 2003  
 SHEET 4 OF 11

**SURVEY NUMBER 045-2003**

SURVEY LOCATED IN THE NW, SW, SE, & NE 1/4'S OF SEC. 15,  
T1N, R39E OF THE W.M., UNION COUNTY, OREGON

DIVISION STREET CENTERLINE RECOVERY



**UNION COUNTY SURVEYOR**  
 Date Rec'd 12/6/03  
 Date Paid 12/31/03  
 by *John Carlson*  
 File No. 045-2003

REGISTERED PROFESSIONAL LAND SURVEYOR  
*John A. Carlson*  
 OREGON  
 JULY 15, 1983  
 JOHN A. CARLSON  
 2044  
 RENEWS 12-31-2003

DIVISION STREET CENTERLINE RECOVERY NARRATIVE

DIVISION STREET (ORIGINALLY 'C' STREET) WAS CREATED BY THE PLAT OF "HINDMAN'S ADDITION" EASTERLY OF THE WEST LINE OF THAT PLAT, BY DEED OMISSION BETWEEN THE PLATS OF "HINDMAN'S ADDITION" AND "THOMPSON'S ADDITION", AND BY THE PLAT OF "THOMPSON'S ADDITION" WESTERLY TO THE EAST LINE OF "SOMMER'S ADDITION". THE CENTERLINE OF HIGHWAY 204 IS AS SHOWN ON OREGON DEPARTMENT OF TRANSPORTATION RIGHT OF WAY DRAWING NO. 4B-26-11, AND WAS ESTABLISHED AFTER THE CREATION OF DIVISION STREET. THE DIVISION STREET CENTERLINE IS NOT THE SAME LINE AS THE HIGHWAY 204 CENTERLINE.

THE CENTERLINE OF DIVISION STREET WAS DETERMINED BY HOLDING RECOVERED MONUMENT NO. 1038 AT THE INTERSECTION OF DIVISION STREET AND 4TH AVENUE AS A POINT ON THE STREET CENTERLINE PER SURVEY NO. 006-1997, AND BY HOLDING A COMBINATION OF THE FOLLOWING DESCRIBED DATA AND RECOVERED OR REESTABLISHED MONUMENTATION:

RECOVERED MONUMENT NOS. 1026 AND 1027

THESE MONUMENTS WERE SET IN SURVEY NO. 149-78 AT 30' SOUTH OF THE DIVISION STREET CENTERLINE. THE DIVISION STREET CENTERLINE DETERMINED IN THIS SURVEY PLACES THE MONUMENTS AT 30.17' AND 30.02' SOUTH, RESPECTIVELY, OF THE CENTERLINE.

RECOVERED MONUMENT NO. 1042

SURVEY NO. 149-78 FOUND THE MONUMENT TO BE 260.01' NORTH OF THE DIVISION STREET CENTERLINE. THE DIVISION STREET CENTERLINE DETERMINED IN THIS SURVEY PLACES THE MONUMENT AT 260.02' NORTH OF THE CENTERLINE.

CENTERLINE INTERSECTION OF S. ALDER ST. AND S. 10TH AVE.

THE RAILROAD SPIKE SHOWN AT THE CENTERLINE/CENTERLINE INTERSECTION IN SURVEY NOS. 63-75 AND 149-78 WAS SEARCHED FOR BUT NOT RECOVERED. THE MONUMENT WAS REESTABLISHED AT THE INTERSECTION OF A LINE DRAWN BETWEEN RECOVERED MONUMENT NOS. 1028 AND 1030, WITH A LINE PARALLEL TO THE LINE BETWEEN RECOVERED MONUMENT NOS. 1022, 1021 AND 1023, DRAWN FROM RECOVERED MONUMENT NO. 1042. SURVEY NO. 149-78 FOUND THE MONUMENT TO BE 280.20' SOUTH OF THE DIVISION STREET CENTERLINE. THE DIVISION STREET CENTERLINE DETERMINED IN THIS SURVEY PLACES THE REESTABLISHED MONUMENT AT 280.26' SOUTH OF THE CENTERLINE.

RECOVERED MONUMENT NO. 1030

SURVEY NO. 149-78 FOUND THE MONUMENT TO BE 280' SOUTH OF THE DIVISION STREET CENTERLINE. THE DIVISION STREET CENTERLINE DETERMINED IN THIS SURVEY PLACES THE MONUMENT AT 280.04' SOUTH OF THE CENTERLINE.

CENTERLINE INTERSECTION OF N. ALBANY ST. AND N. 11TH AVE.

THE CENTERLINE/CENTERLINE INTERSECTION WAS ESTABLISHED AT THE INTERSECTION OF A LINE DRAWN BETWEEN RECOVERED MONUMENT NOS. 1021 AND 1042, WITH A LINE PARALLEL TO THE LINE BETWEEN RECOVERED MONUMENT NOS. 1022, 1021 AND 1023, DRAWN FROM RECOVERED MONUMENT NO. 1030. THE PLAT OF "HINDMAN'S ADDITION" PLACES THE INTERSECTION AT 260' NORTH OF THE DIVISION STREET CENTERLINE. THE DIVISION STREET CENTERLINE DETERMINED IN THIS SURVEY PLACES THE CALCULATED INTERSECTION POINT AT 259.98' NORTH OF THE CENTERLINE.

CENTERLINE INTERSECTION OF S. ALDER ST. AND S. 12TH AVE.

SURVEY NOS. 13-72, 28-73, 63-75, AND 23-88 RECOVERED A MONUMENT VARIOUSLY DESCRIBED AS A BRASS SCREW, A BRASS SCREW IN LEAD PLUG, AND A CONCRETE MONUMENT AT THE STREET CENTERLINE INTERSECTION. THAT MONUMENT WAS SEARCHED FOR BUT NOT RECOVERED. A SLIGHTLY BENT 5/8" IRON ROD, 0.5' DEEP (NO RECORD) WAS RECOVERED AT THE STREET CENTERLINE INTERSECTION. THAT MONUMENT IS AT THE INTERSECTION OF THE SOUTHERLY EXTENSION OF A LINE DRAWN BETWEEN RECOVERED MONUMENT NOS. 1022 AND 1021, WITH THE WESTERLY EXTENSION OF A LINE DRAWN BETWEEN RECOVERED MONUMENT NOS. 1028 AND 1030. BECAUSE THE CENTERLINE OF S. ALDER STREET WAS ORIGINALLY LAID OUT AS PARALLEL WITH DIVISION STREET IN THE PLAT OF "HINDMAN'S ADDITION", A LINE PARALLEL WITH DIVISION STREET WESTERLY FROM RECOVERED MONUMENT NO. 1030 WAS DRAWN AS THE CENTERLINE OF S. ALDER STREET. THE INTERSECTION OF THIS PARALLEL CENTERLINE WITH THE RECOVERED MONUMENT NOS. 1022, 1021 AND 1023 LINE IS 0.20' SOUTH OF RECOVERED MONUMENT NO. 1023. THE CALCULATED INTERSECTION POINT IS, LIKE THE CENTERLINE INTERSECTION OF S. ALDER STREET AND S. 12TH AVENUE, 280.04' SOUTH OF THE DIVISION STREET INTERSECTION.

RECOVERED MONUMENT NO. 1021

THE PLAT OF "HINDMAN'S ADDITION" PLACES THE CENTERLINE/CENTERLINE INTERSECTION OF N. ALBANY STREET AND N. 12TH AVENUE AT 260' NORTH OF THE DIVISION STREET CENTERLINE. THE DIVISION STREET CENTERLINE DETERMINED IN THIS SURVEY PLACES THE RECOVERED MONUMENT AT 259.93' NORTH OF THE CENTERLINE.

RECOVERED MONUMENT NOS. 1017 AND 1018

THESE MONUMENTS WERE SET IN SURVEY NO. 28-73 AT 30' SOUTH OF THE CENTERLINE. THE DIVISION STREET CENTERLINE DETERMINED IN THIS SURVEY PLACES THE MONUMENTS AT 30.00' AND 29.91' SOUTH, RESPECTIVELY, OF THE CENTERLINE.

LEGEND	
○	FOUND MONUMENT AS DESCRIBED ON SHEET 11
---	QUARTER SECTION LINE
MS.	MEASURED VALUE
CALC.	CALCULATED VALUE
SN	RECORDED SURVEY NUMBER
CL	CENTERLINE



1"=200'



REGION 5

TO CONVERT FEET TO METERS MULTIPLY BY 0.3048

CONTROL AND RIGHT OF WAY RETRACEMENT SURVEY FOR  
 OREGON DEPT. OF TRANSPORTATION  
 REGION 5

PROJECT SITE LOCATED IN THE NW, SW, SE, & NE 1/4'S  
 OF SEC. 15, T1N, R39E OF THE W.M.

ELGIN CITY SECTION UNION COUNTY  
 WESTIN-ELGIN HIGHWAY 204  
 MP 40.31 TO MP 40.84  
 KEY NO. 12033

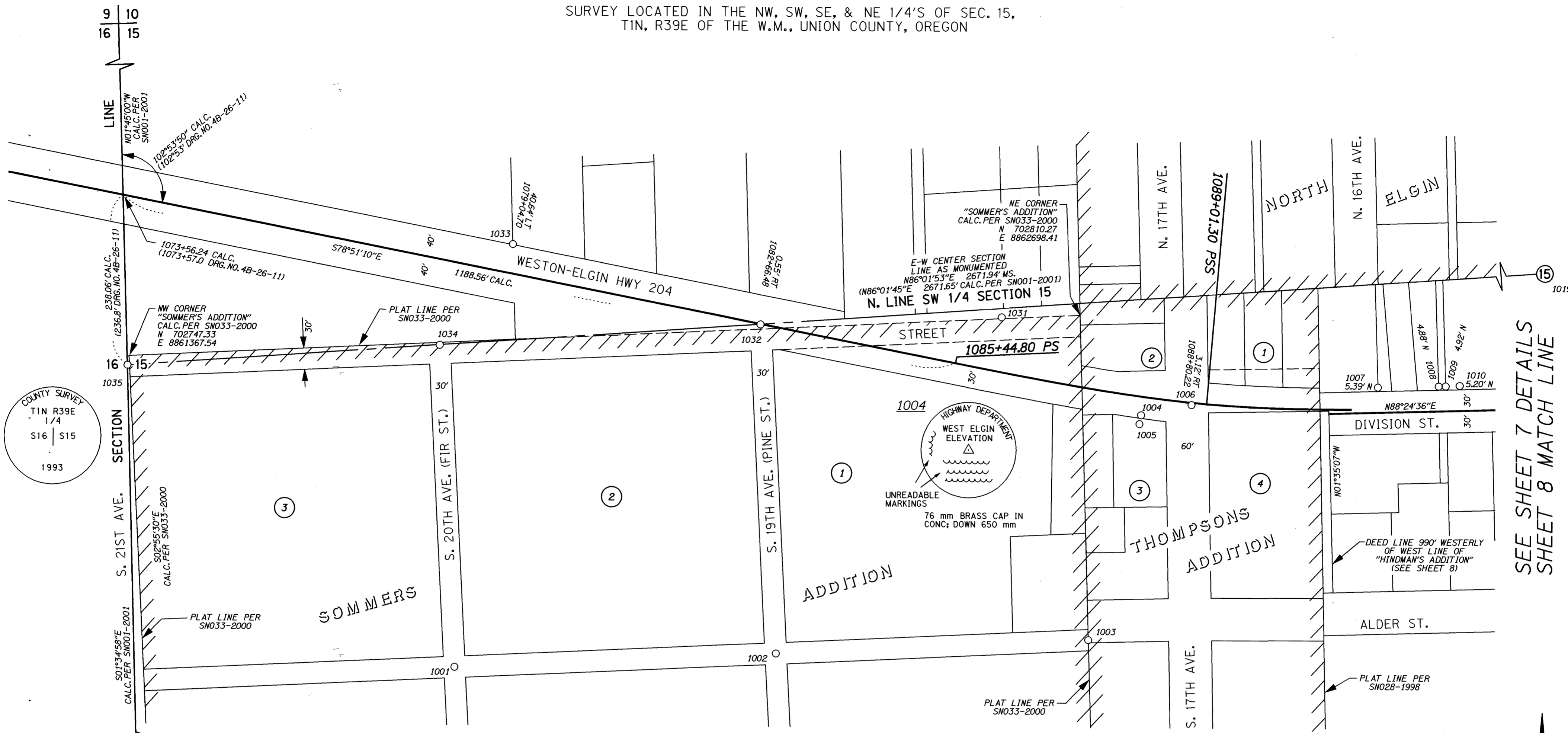


17355 SW BOONES FERRY RD.  
 LAKE OSWEGO, OREGON 97035  
 PHONE: (503) 635-3618  
 FAX: (503) 635-5395  
 www.otak.com

PROJECT NO. 10019-003-003  
 NOVEMBER 19, 2003  
 SHEET 5 OF 11

**SURVEY NUMBER 045-2003**

SURVEY LOCATED IN THE NW, SW, SE, & NE 1/4'S OF SEC. 15,  
T1N, R39E OF THE W.M., UNION COUNTY, OREGON

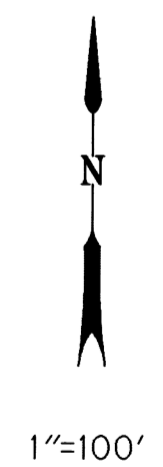


COUNTY SURVEY  
T1N R39E  
1/4  
S16 | S15  
1993

SEE SHEET 7 DETAILS  
SHEET 8 MATCH LINE

**UNION COUNTY SURVEYOR**  
 12/8/03  
 14/31/03  
 John A. Carlson  
 045-2003

REGISTERED PROFESSIONAL LAND SURVEYOR  
 John A. Carlson  
 OREGON  
 JULY 15, 1983  
 JOHN A. CARLSON  
 2044  
 RENEWS 12-31-2003



LEGEND	
○	FOUND MONUMENT AS DESCRIBED ON SHEET 11
---	QUARTER SECTION LINE
///	SUBDIVISION BOUNDARY
MS.	MEASURED VALUE
CALC.	CALCULATED VALUE
SN	RECORDED SURVEY NUMBER
CL	CENTERLINE

TO CONVERT FEET TO METERS MULTIPLY BY 0.3048

**CONTROL AND RIGHT OF WAY RETRACEMENT SURVEY FOR OREGON DEPT. OF TRANSPORTATION REGION 5**

PROJECT SITE LOCATED IN THE NW, SW, SE, & NE 1/4'S OF SEC. 15, T1N, R39E OF THE W.M.

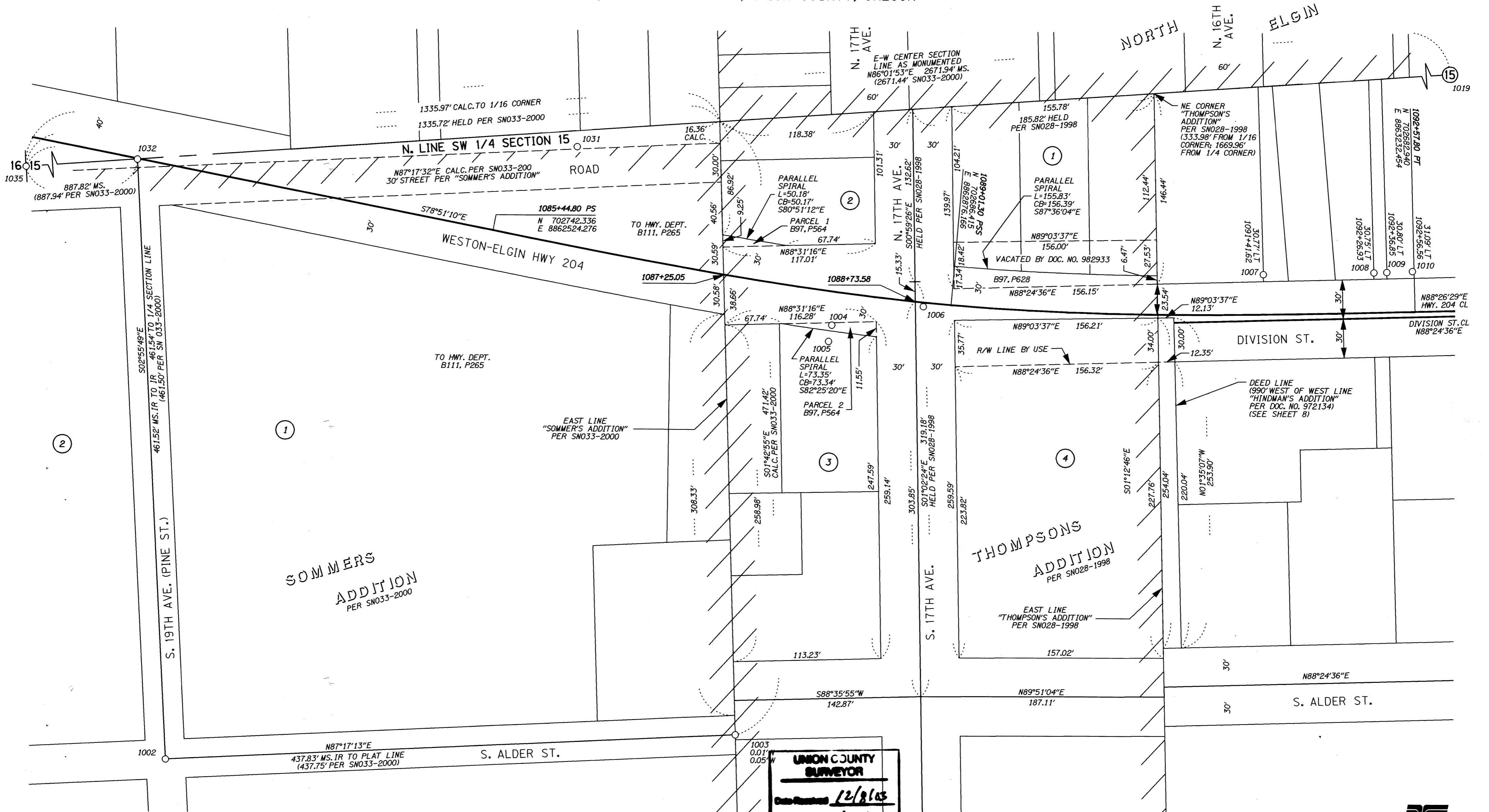
ELGIN CITY SECTION UNION COUNTY  
WESTIN-ELGIN HIGHWAY 204  
MP 40.31 TO MP 40.84  
KEY NO. 12033

otak 17355 SW BOONES FERRY RD. LAKE OSWEGO, OREGON 97035  
 PHONE: (503) 635-3618  
 FAX: (503) 635-5395  
 www.otak.com

PROJECT NO. 10019-003-003  
NOVEMBER 19, 2003  
SHEET 6 OF 11

**SURVEY NUMBER 045-2003**

SURVEY LOCATED IN THE NW, SW, SE, & NE 1/4'S OF SEC. 15,  
T1N, R39E OF THE W.M., UNION COUNTY, OREGON



LEGEND	
○	FOUND MONUMENT AS DESCRIBED ON SHEET 11
---	QUARTER SECTION LINE
///	SUBDIVISION BOUNDARY
MS.	MEASURED VALUE
CALC.	CALCULATED VALUE
SN	RECORDED SURVEY NUMBER
CL	CENTERLINE

**UNION COUNTY SURVEYOR**  
 Commission Expires 12/31/03  
 Commission Expires 12/31/03  
 by *John A. Carlson*  
 No. 045-2013

REGISTERED PROFESSIONAL LAND SURVEYOR  
*John A. Carlson*  
 OREGON  
 JULY 15, 1983  
 JOHN A. CARLSON  
 2044  
 RENEWS 12-31-2003



TO CONVERT FEET TO METERS MULTIPLY BY 0.3048



CONTROL AND RIGHT OF WAY RETRACEMENT SURVEY FOR  
 OREGON DEPT. OF TRANSPORTATION  
 REGION 5  
 PROJECT SITE LOCATED IN THE NW, SW, SE, & NE 1/4'S  
 OF SEC. 15, T1N, R39E OF THE W.M.  
 ELGIN CITY SECTION UNION COUNTY  
 WESTIN-ELGIN HIGHWAY 204  
 MP 40.31 TO MP 40.84  
 KEY NO. 12033

otak  
 SINCE 1981  
 17355 SW BOONES FERRY RD.  
 LAKE OSWEGO, OREGON 97035  
 PHONE: (503) 635-3618  
 FAX: (503) 635-5395  
 www.otak.com

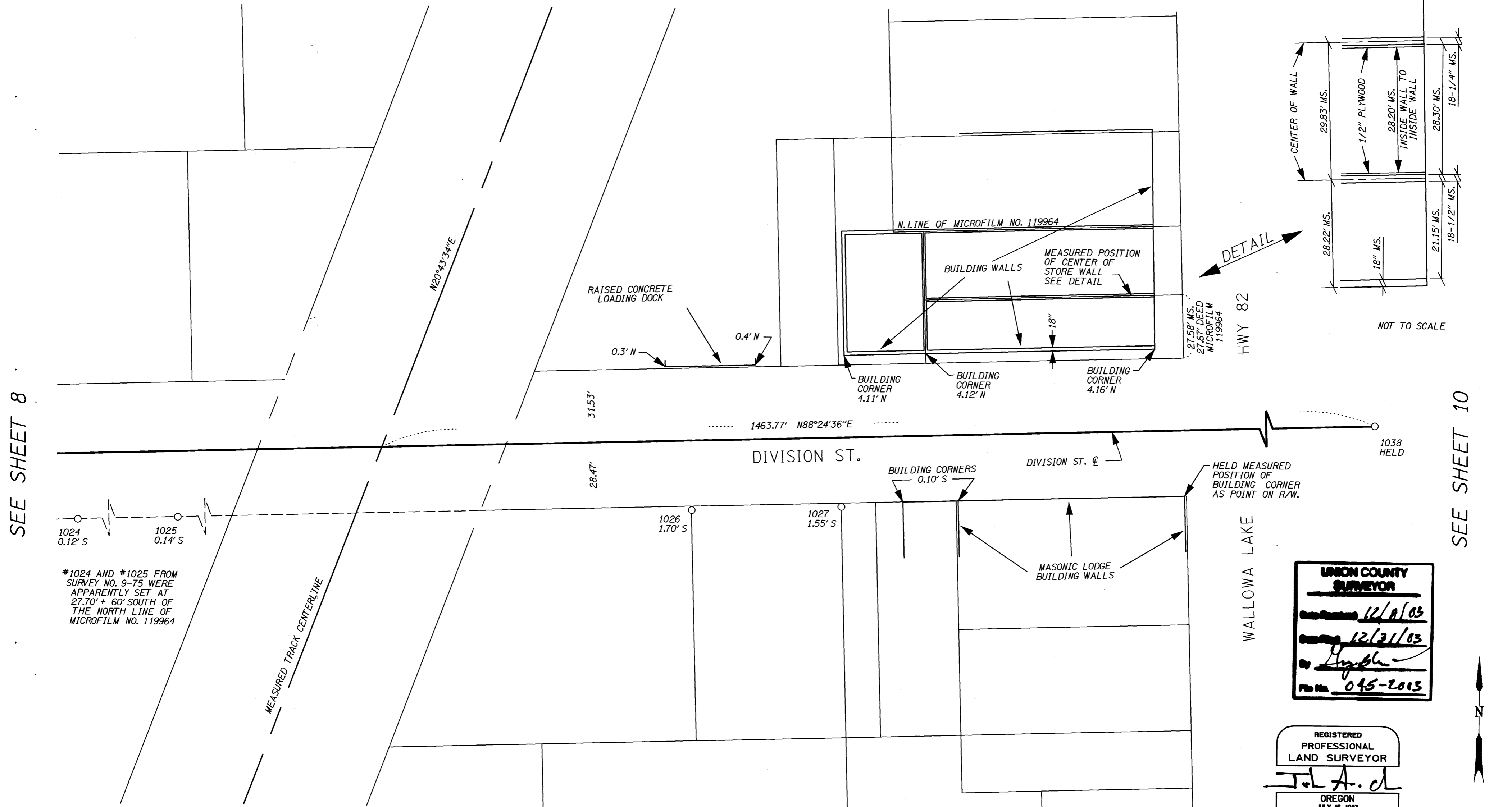
PROJECT NO. 10019-003-003  
 NOVEMBER 19, 2003  
 SHEET 7 OF 11

**SURVEY NUMBER 045-2003**





SURVEY LOCATED IN THE NW, SW, SE, & NE 1/4'S OF SEC. 15,  
T1N, R39E OF THE W.M., UNION COUNTY, OREGON



SEE SHEET 8

SEE SHEET 10

\*1024 AND \*1025 FROM SURVEY NO. 9-75 WERE APPARENTLY SET AT 27.70' + 60' SOUTH OF THE NORTH LINE OF MICROFILM NO. 119964

**UNION COUNTY SURVEYOR**  
 12/8/03  
 12/31/03  
 John A. Carlson  
 PLS. No. 045-2003

REGISTERED PROFESSIONAL LAND SURVEYOR  
 John A. Carlson  
 OREGON  
 JULY 15, 1983  
 JOHN A. CARLSON  
 2044  
 RENEWS 12-31-2003



1"=30'

**NARRATIVE**

IT APPEARS THAT THE RIGHT OF WAY OF DIVISION STREET IS SHIFTED WITH RESPECT TO THE CENTERLINE FROM THE RAILROAD EAST TO THE WALLOWA LAKE HIGHWAY. THE POSITION OF THE NORTH LINE OF MICROFILM NO. 119964 WAS CAREFULLY MEASURED AND THE NORTH RIGHT OF WAY PLACED AT THE DEED DISTANCE SOUTH FROM THE LINE. THIS PLACED THE NE CORNER OF THE MASONIC LODGE 0.10' INTO THE RIGHT OF WAY. BASED UPON THE PRESUMPTION THAT THE BUILDING WAS ORIGINALLY CONSTRUCTED ON THE RIGHT OF WAY AS IT WAS ORIGINALLY LAID OUT, THE RIGHT OF WAY WAS THEN SHIFTED 0.10' NORTHERLY TO ELIMINATE THE ENCROACHMENT.

LEGEND	
○	FOUND MONUMENT AS DESCRIBED ON SHEET 11
MS.	MEASURED VALUE
R/W	RIGHT OF WAY

TO CONVERT FEET TO METERS MULTIPLY BY 0.3048

REGION 5

CONTROL AND RIGHT OF WAY RETRACEMENT SURVEY FOR  
**OREGON DEPT. OF TRANSPORTATION**  
 REGION 5  
 PROJECT SITE LOCATED IN THE NW, SW, SE, & NE 1/4'S OF SEC. 15, T1N, R39E OF THE W.M.  
 ELGIN CITY SECTION UNION COUNTY  
 WESTIN-ELGIN HIGHWAY 204  
 MP 40.31 TO MP 40.84  
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PROJECT NO. 10019-003-003  
 NOVEMBER 19, 2003  
 SHEET 9 OF 11

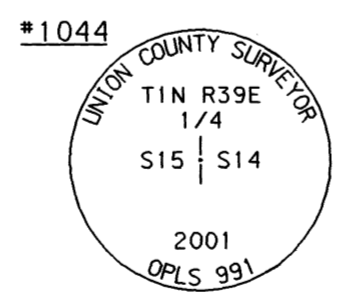
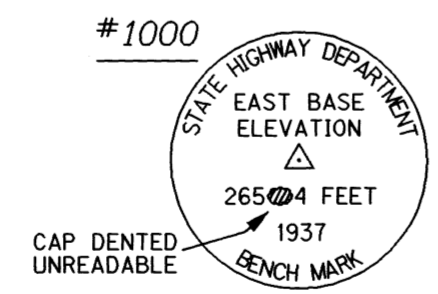
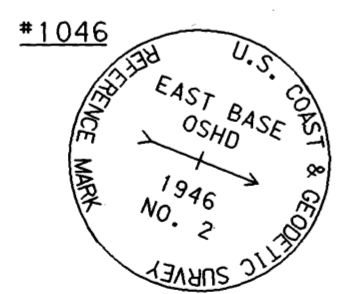
**SURVEY NUMBER 045-2003**

SURVEY LOCATED IN THE NW, SW, SE, & NE 1/4'S OF SEC. 15,  
T1N, R39E OF THE W.M., UNION COUNTY, OREGON



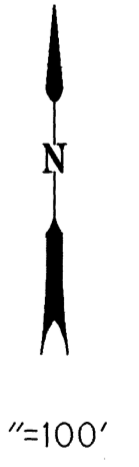
SEE SHEET 8

SEE DETAIL SHEET 9



**UNION COUNTY SURVEYOR**  
 Date Rec'd 12/8/03  
 Date Paid 12/31/03  
 By John A. Carlson  
 File No. 045-2003

REGISTERED PROFESSIONAL LAND SURVEYOR  
John A. Carlson  
 OREGON  
 JULY 15, 1985  
 JOHN A. CARLSON  
 2044  
 RENEWS 12-31-2003



LEGEND	
○	FOUND MONUMENT AS DESCRIBED ON SHEET 11
---	QUARTER SECTION LINE
MS.	MEASURED VALUE
CL	CENTERLINE

TO CONVERT FEET TO METERS MULTIPLY BY 0.3048

**CONTROL AND RIGHT OF WAY RETRACEMENT SURVEY FOR OREGON DEPT. OF TRANSPORTATION REGION 5**

PROJECT SITE LOCATED IN THE NW, SW, SE, & NE 1/4'S OF SEC. 15, T1N, R39E OF THE W.M.

ELGIN CITY SECTION UNION COUNTY  
 WESTIN-ELGIN HIGHWAY 204  
 MP 40.31 TO MP 40.84  
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PROJECT NO. 10019-003-003  
 NOVEMBER 19, 2003  
 SHEET 10 OF 11

**SURVEY NUMBER 045-2003**

SURVEY LOCATED IN THE NW, SW, SE, & NE 1/4'S OF SEC. 15,  
T1N, R39E OF THE W.M., UNION COUNTY, OREGON

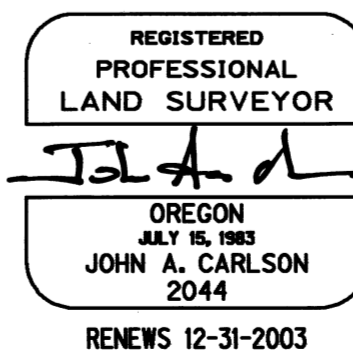
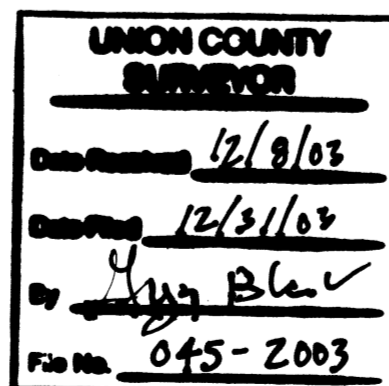
RECOVERED MONUMENT TABLE

PT. NO.	LDP (FT) NORTHING	LDP (FT) EASTING	STATION	OFFSET	DATE TIED	DESCRIPTION	REFERENCES
1000	702768.18	8866365.04	1123+91.55	0.00	8/15/2002	FOUND 75MM BRASS CAP IN CONCRETE "EAST BASE" (SEE SKETCH)-DOWN 250MM	4B-26-11,5-75,24-84,23-88,PP1994-01
1001	702313.52	8861825.17			8/28/2002	FOUND 16MM IRON ROD WITH YELLOW PLASTIC CAP "TOMPKINS SURVEYING"-DOWN 120MM	033-2000
1002	702334.69	8862274.70			8/28/2002	FOUND 16MM IRON ROD BADLY BENT WITH DESTROYED YELLOW PLASTIC CAP; BRASS WASHER (PARTLY READABLE "OR 2360") ATTACHED TO ROD WITH WIRE; TIED AT BEND -FLUSH IN ASPHALT	033-2000
1003	702355.42	8862711.99			8/28/2002	FOUND 16MM IRON ROD WITH YELLOW PLASTIC CAP "TOMPKINS SURVEYING"-FLUSH	033-2000
1004	702670.75	8862784.59	1088+12.55	25.53 RT	8/28/2002	FOUND 75MM BRASS CAP IN CONCRETE "WEST ELGIN" (SEE SKETCH)-DOWN 650MM	4B-26-11
1005	702658.25	8862782.19	1088+11.83	38.24 RT	8/28/2002	FOUND 16MM IRON PIPE BADLY BENT; TIED AT BEND-DOWN 120MM	ORIGIN UNKNOWN
1006	702685.23	8862854.86	1088+80.21	3.10 RT	8/28/2002	FOUND 16MM IRON ROD-FLUSH IN ASPHALT	ORIGIN UNKNOWN
1007	702711.00	8863115.83	1091+41.62	30.77 LT	8/28/2002	FOUND 16MM IRON ROD-FLUSH	5-75,24-84
1008	702712.85	8863200.78	1092+26.93	30.75 LT	8/28/2002	FOUND 16MM IRON ROD BADLY BENT; TIED AT BEND-FLUSH	5-75,24-84
1009	702713.17	8863210.69	1092+36.86	30.80 LT	8/28/2002	FOUND 16MM IRON ROD WITH UNREADABLE DISINTEGRATING YELLOW PLASTIC CAP-FLUSH	24-84,47-77
1010	702713.99	8863230.37	1092+56.56	31.09 LT	8/28/2002	FOUND 16MM IRON ROD SLIGHTLY BENT; TIED AT BEND-FLUSH	24-84
1011	702870.52	8863327.20			8/28/2002	FOUND 16MM IRON ROD WITH YELLOW PLASTIC CAP (ROD PUSHING THROUGH THE CAP-PARTLY READABLE) "??SURVEY??"-DOWN 50MM	24-84
1012	702945.39	8863325.15			8/28/2002	FOUND 16MM IRON ROD-UP 50MM	24-84
1013	703082.27	8863381.38			8/28/2002	FOUND 16MM IRON ROD BENT; TIED AT BEND-UP 110MM	24-84,150-78
1014	702979.83	8863384.17			8/28/2002	FOUND 16MM IRON ROD BADLY BENT; TIED AT BEND-DOWN 100MM	24-84,150-78
1015	702660.50	8863596.23	1096+20.84	32.33 RT	8/28/2002	FOUND 16MM IRON ROD WITH YELLOW PLASTIC CAP (PARTLY READABLE) "BG? SURVEY MAR?"-FLUSH WITH WALK	23-88
1016	702571.21	8863598.46			8/28/2002	FOUND 16MM IRON ROD BADLY BENT WITH DESTROYED YELLOW PLASTIC CAP; TIED AT BEND-FLUSH	23-88
1017	702660.75	8863662.33	1096+86.91	33.87 RT	8/28/2002	FOUND 16MM IRON ROD-DOWN 40MM IN ASPHALT	28-73,23-88
1018	702662.28	8863714.23	1097+38.83	33.75 RT	8/28/2002	FOUND 16MM IRON ROD-FLUSH IN ASPHALT	28-73,23-88
1019	702919.10	8864030.94	1100+62.42	214.35 LT	8/28/2002	FOUND 63MM ALUMINUM CAP ON IRON PIPE "C1/4 S15" (SEE SKETCH)-UP 60MM	5-75,24-84,150-78,001-2001,PP1994-01,152,28-73,25-74,31-72,007-1999,23-88,033-2000,47-77,028-1998
1020	702931.83	8864017.15			8/28/2002	FOUND 16MM IRON ROD WITH 38MM ALUMINUM CAP (SEE SKETCH)-FLUSH	UNION COUNTY MONUMENTATION RECORDS
1021	702964.60	8864159.63			8/28/2002	FOUND 13MM BENT IRON ROD IN CONCRETE; TIED AT BEND-FLUSH IN ASPHALT	28-73 (CONC. MON.),31-72,23-88
1022	703234.51	8864152.16			8/28/2002	FOUND RAIL ROAD SPIKE (NO PUNCH MARK); TIED CENTER OF HEAD-FLUSH IN ASPHALT	34-76 (IRON ROD)
1023	702425.04	8864174.56			8/28/2002	FOUND 16MM IRON ROD SLIGHTLY BENT; TIED AT BEND-DOWN 150MM IN ASPHALT	ORIGIN UNKNOWN
1024	702680.52	8864323.39	1103+48.27	32.10 RT	8/28/2002	FOUND 13MM THICK WALLED IRON PIPE-DOWN 100MM	9-75
1025	702682.57	8864398.20	1104+23.10	32.08 RT	8/28/2002	FOUND 13MM THICK WALLED IRON PIPE-FLUSH	9-75
1026	702698.49	8865028.04	1110+53.15	33.29 RT	8/28/2002	FOUND 16MM IRON ROD-DOWN 150MM IN ASPHALT	31,149-78
1027	702700.44	8865092.97	1111+18.11	33.11 RT	8/28/2002	FOUND 16MM IRON ROD-DOWN 70MM	31,149-78
1028	702446.75	8864979.65			8/28/2002	FOUND RAIL ROAD SPIKE (WITH PUNCH MARK)-DOWN 20MM IN ASPHALT	149-78
1029	702463.30	8865579.52			8/28/2002	FOUND 16MM IRON ROD-DOWN 100MM IN ASPHALT	006-1997,149-78
1030	702432.05	8864434.42			8/28/2002	FOUND RAIL ROAD SPIKE (WITH PUNCH MARK)-DOWN 30MM IN ASPHALT	63-75,9-75,23-88
1031	702806.86	8862588.63	1085+95.64	75.71 LT	8/29/2002	FOUND 16MM IRON ROD-DOWN 50MM	37-75
1032	702795.60	8862251.11	1082+66.49	0.55 RT	8/29/2002	FOUND RAIL ROAD SPIKE; HEAD DAMAGED AND BENT; TIED AT BEND-FLUSH IN ASPHALT	033-2000
1033	702905.95	8861904.11	1079+04.70	40.64 LT	8/29/2002	FOUND 16MM IRON ROD WITH YELLOW PLASTIC CAP "B.G.A. SURVEY MARKER"-FLUSH	PP1994-01
1034	702764.48	8861802.25			8/29/2002	FOUND 16MM IRON ROD (SMALL CRACKS IN TOP OF ROD)-FLUSH IN ASPHALT	033-2000
1035	702734.17	8861365.41			8/29/2002	FOUND 63MM ALUMINUM CAP "1/4 S16/S15" (SEE SKETCH)-DOWN 200MM IN ASPHALT	PP1994-01,033-2000,007-1999,PP1999-27,001-2001,028-1998
1036	702433.78	8863405.66			8/29/2002	FOUND 13MM IRON ROD-DOWN 80MM	20-65,23-88
1037	703645.02	8857943.22	1038+95.50	0.00	9/24/2002	FOUND 200MM DIAMETER CONCRETE POST WITH METAL RIM-FLUSH WITH GROUND; 16MM+/- DIAMETER HOLE IN CENTER OF CONCRETE (NO CAP OR OTHER IDENTIFYING MARKINGS)	4B-26-11,PP1994-01
1038	702765.54	8866356.45	1123+82.88	2.40 RT	11/12/2002	FOUND 16MM IRON ROD-DOWN 30MM	006-1997
1039	702474.97	8865879.97			11/12/2002	FOUND 13MM IRON PIPE-DOWN 280MM IN ASPHALT	006-1997
1042	702979.40	8864689.29			11/12/2002	FOUND RAIL ROAD SPIKE (WITH PUNCH MARK)-DOWN 50MM IN ASPHALT	149-78
1043	703133.54	8866376.11			7/15/2003	FOUND 16MM IRON ROD WITH UNREADABLE & LOOSE YELLOW PLASTIC CAP-UP 40MM	54-82
1044	703140.86	8866685.55			7/15/2003	FOUND 63MM ALUMINUM CAP "1/4 S15/S16" (SEE SKETCH)-FLUSH	001-2001
1045	702427.52	8865399.74			7/15/2003	FOUND 16MM IRON ROD WITH YELLOW PLASTIC CAP "B.G.A. SURVEY MARKER"-FLUSH	012-1999
1046	702791.63	8866303.39	1123+30.55	25.12 LT	7/15/2003	FOUND 89MM BRASS CAP IN SIDEWALK "EAST BASE NO. 2" (SEE SKETCH)-FLUSH	001-2001
1047	702791.46	8866225.60	1122+52.80	27.06 LT	7/15/2003	FOUND NAIL HEAD IN CONCRETE SIDEWALK	27-74
1048	702733.66	8866289.09	1123+14.69	32.44 RT	7/15/2003	FOUND 16MM IRON ROD WITH YELLOW PLASTIC CAP "B.G.A. SURVEY MARKER"-FLUSH	006-1997
1049	702483.32	8866179.94			7/15/2003	FOUND 13MM X 380MM IRON PIPE BENT; SPUN AND RESET WITH 16MM X 760MM REBAR WITH 51MM ALUMINUM CAP "OTAK INC."-FLUSH	006-1997

NOTES: ALL PIPES MEASURED INSIDE DIAMETER.  
ALL MONUMENTS FOUND IN "GOOD CONDITION" UNLESS OTHERWISE NOTED.  
\*1037 MAY BE DESTROYED BY PROPERTY OWNER IN THE FUTURE.

TO CONVERT FEET TO METERS MULTIPLY BY 0.3048

REGION 5



CONTROL AND RIGHT OF WAY RETRACEMENT SURVEY FOR  
OREGON DEPT. OF TRANSPORTATION  
REGION 5

PROJECT SITE LOCATED IN THE NW, SW, SE, & NE 1/4'S  
OF SEC. 15, T1N, R39E OF THE W.M.

ELGIN CITY SECTION UNION COUNTY  
WESTIN-ELGIN HIGHWAY 204  
MP 40.31 TO MP 40.84  
KEY NO. 12033



17355 SW BOONES FERRY RD.  
LAKE OSWEGO, OREGON 97035  
PHONE: (503) 635-3618  
FAX: (503) 635-5395  
www.otak.com

PROJECT NO. 10019-003-003  
NOVEMBER 19, 2003  
SHEET 11 OF 11

**SURVEY NUMBER 045-2003**