

LEGEND

- ▲ OREGON HIGH PRECISION STATION
- NEW GPS STATION
- MEASURED BASELINE

NARRATIVE

THE PURPOSE OF THIS SURVEY WAS TO ESTABLISH GEODETIC CONTROL IN THE VICINITY OF LA GRANDE, COVE, IMBLER, ELGIN AND THE COMMUNITY OF ALICEL. THIS CONTROL WILL BE USED IN THE PRESERVATION, PERPETUATION AND ESTABLISHMENT OF GOVERNMENT LAND OFFICE CORNERS. DENSIFICATION OF GEODETIC CONTROL IN THESE COMMUNITIES WILL PROVIDE GOVERNMENTAL AGENCIES AND PRIVATE SURVEYORS A BASIS TO PERFORM SURVEYS FOR MAPPING, BOUNDARIES AND GEOGRAPHIC INFORMATION SYSTEMS.

FIELD MEASUREMENTS WERE PERFORMED MAY 18, 19 AND 20, 1992. CHIEF OF PARTY WAS WALTER L. CASWELL. RECEIVER OPERATORS WERE GREG BLACKMAN (COUNTY SURVEYOR), RICK ROBINSON, AND JEFF PETERSEN.

THREE TRIMBLE 4000SST "GEODETIC SURVEYOR IIP" RECEIVERS WERE USED TO RECORD L1, L2 AND P-CODE DATA.

TRIMVEC-PLUS SOFTWARE BY TRIMBLE NAVIGATION WAS USED TO PROCESS DATA INTO BASELINE VECTORS.

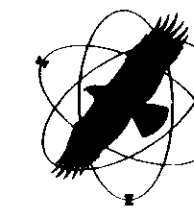
GEOLAB'S LEAST SQUARES ADJUSTMENT SOFTWARE WAS USED TO ARRIVE AT FINAL COORDINATE VALUES.

OREGON HIGH PRECISION STATIONS "COVE 1945" AND STATION 0+00 OF THE LA GRANDE CALIBRATED BASELINE WERE HELD FOR HORIZONTAL AND VERTICAL CONTROL. VERTICAL CONTROL WAS STATION 9101, ESTABLISHED BY TRIG LEVELS FROM A BENCHMARK IN THE NORTH PART OF ELGIN.

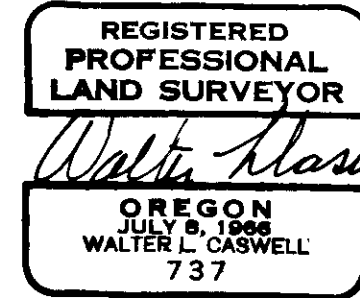
THE HORIZONTAL NETWORK MEETS SECOND ORDER CLASS I ACCURACY. THE CONSTRAINED ADJUSTMENT WAS COMPUTED ON THE ELLIPSOID. VERTICAL ELEVATIONS WERE DERIVED BY APPLYING GEODAL HEIGHTS TO THE ELLIPSOID ELEVATION.

GPS SURVEY FOR UNION COUNTY, OREGON

MAY 18 THRU 20, 1992



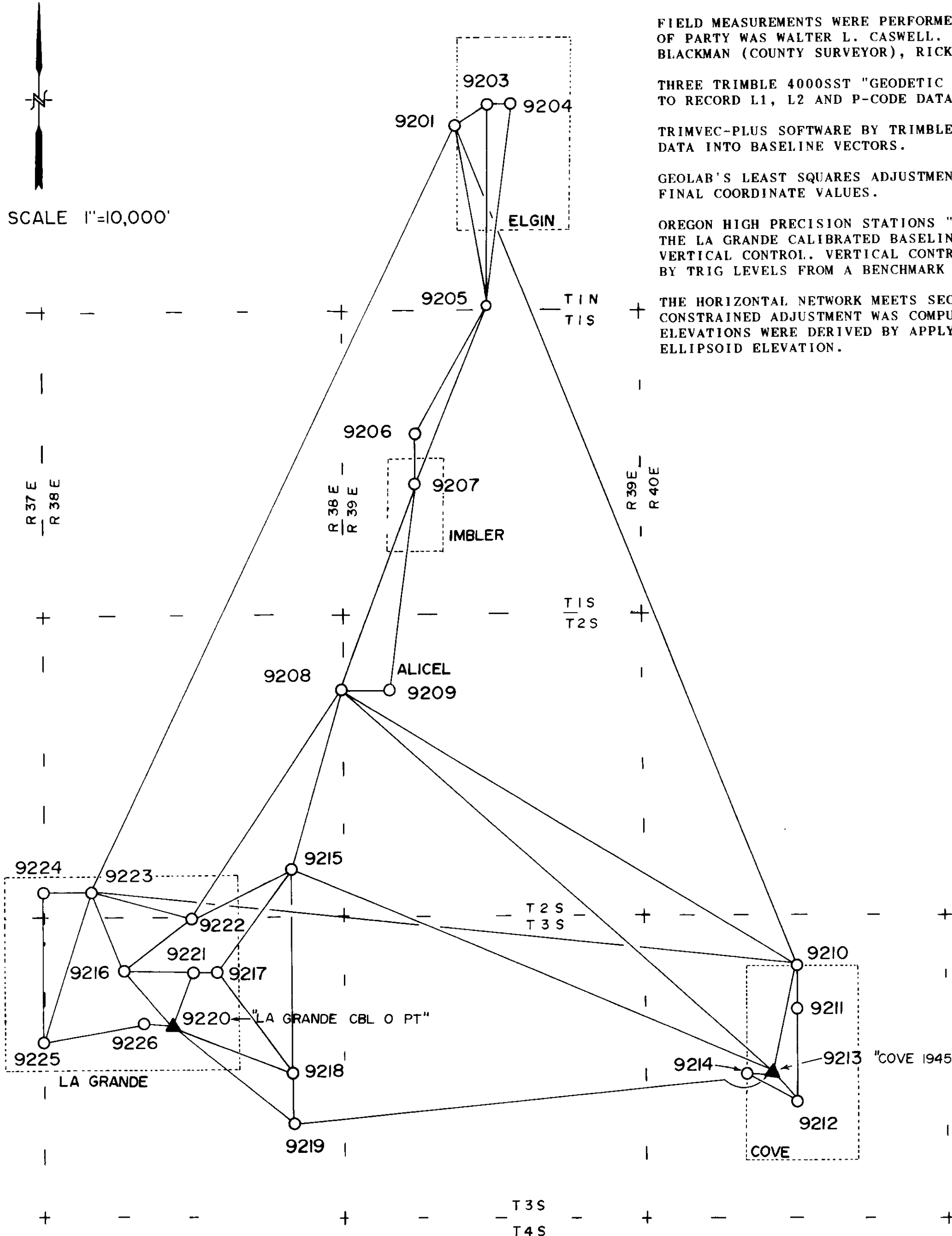
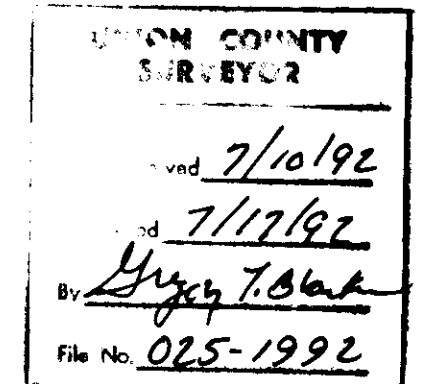
EAGLE GPS SURVEY CORPORATION
13545 N.W. SCIENCE PARK DRIVE
PORTLAND, OREGON 97229
(503) 643-1073



NOTE:

SURVEYORS PERFORMING WORK IN THE VICINITY OF ALICEL, COVE, ELGIN, IMBLER AND LA GRANDE CAN MULTIPLY STATE PLANE COORDINATES (NORTHING AND EASTING) BY A COMBINED FACTOR TO OBTAIN GROUND COORDINATES. TO CONVERT GRID DISTANCE TO GROUND DISTANCE, DIVIDE THE GRID DISTANCE BY THE COMBINATION FACTOR. MULTIPLY THE COMBINATION FACTOR BY THE GROUND DISTANCE TO CONVERT GROUND DISTANCE BACK TO GRID DISTANCE. THIS METHOD IS ACCEPTABLE ONLY WHEN THERE IS A SMALL DIFFERENCE IN ELEVATION BETWEEN POINTS AND LINES ARE NOT TOO LONG. COMBINATION FACTORS FOR THOSE SPECIFIC AREAS NOTED ABOVE ARE AS FOLLOWS:

COMMUNITY	COMBINATION FACTOR	POINT USED IN COMPUTATIONS
ALICEL	0.99977153	9209
COVE	0.99975776	9211
ELGIN	0.99978754	9203
IMBLER	0.99977746	9207
LA GRANDE	0.99976728	9221



LATITUDE	LONGITUDE	NORTHING	EASTING	ELEV. (USFT)	CONVERGENCE	SCALE FACTOR	NAME
45:33'39.63232" N	117:56'54.45659" W	700950.102	8855506.819	3204.78	1:48'34.258"	0.999917995	9201
45:34'20.93054" N	117:55'57.15506" W	705259.856	8859448.654	2754.97	1:49'14.896"	0.999919386	9203
45:34'20.80466" N	117:55'19.54084" W	705332.299	8862123.269	2732.91	1:49'41.571"	0.999919380	9204
45:30'53.29544" N	117:55'56.82904" W	684241.825	8860140.037	2980.72	1:49'15.127"	0.999912800	9205
45:28'43.07967" N	117:57'45.92823" W	670814.805	8852789.717	2736.54	1:47'57.755"	0.999909187	9206
45:27'50.69558" N	117:57'45.55900" W	665512.868	8852982.607	2724.56	1:47'58.017"	0.999907847	9207
45:24'21.22153" N	117:59'37.54443" W	644058.994	8845663.570	2771.84	1:46'38.599"	0.999903132	9208
45:24'21.65429" N	117:58'24.66172" W	644264.721	8850859.172	2750.22	1:47'30.286"	0.999903141	9209
45:19'33.46070" N	117:48'31.24684" W	616460.713	8894143.659	2921.53	1:54'31.128"	0.999898339	9210
45:18'40.78809" N	117:48'30.59245" W	611130.829	8894368.063	2923.66	1:54'31.592"	0.999897672	9211
45:17'22.14965" N	117:48'30.29789" W	603171.899	8894654.377	3105.50	1:54'31.801"	0.999896798	9212
45:17'48.36391" N	117:49'12.11042" W	605725.917	8891578.949	2828.29	1:54'02.148"	0.999897073	9213
45:17'48.35764" N	117:49'44.71323" W	605648.125	8889249.885	2766.50	1:53'39.026"	0.999897073	9214
45:21'17.67521" N	118:00'51.42553" W	625316.124	8840967.204	2708.60	1:45'46.203"	0.999899850	9215
45:19'33.17225" N	118:04'34.04745" W	614254.408	8825395.819	2761.46	1:43'08.323"	0.999898335	9216
45:19'33.02051" N	118:02'43.08710" W	614478.351	8833319.776	2729.14	1:44'27.015"	0.999898333	9217
45:17'48.06938" N	118:00'51.18026" W	604098.914	8841637.745	2713.33	1:45'46.377"	0.999897070	9218
45:16'55.79119" N	118:00'51.19900" W	598806.956	8841799.280	2705.87	1:45'46.364"	0.999896537	9219
45:18'39.41551" N	118:03'52.25917" W	608902.454	8828543.953	2740.81	1:43'37.959"	0.999897655	9220
45:19'33.04970" N	118:03'19.91008" W	614401.556	8830690.228	2738.42	1:44'00.900"	0.999898333	9221
45:20'25.08891" N	118:03'20.00433" W	619669.211	8830524.063	2743.71	1:44'00.833"	0.999899055	9222
45:20'51.10562" N	118:05'48.69339" W	621984.340	8819830.692	2800.35	1:42'15.385"	0.999899440	9223
45:20'50.60794" N	118:06'59.84822" W	621783.454	8814752.976	3003.06	1:41'24.923"	0.999899433	9224
45:18'13.76503" N	118:06'59.78259" W	605906.265	8815226.191	3061.63	1:41'24.970"	0.999897355	9225
45:18'40.69421" N	118:04'34.49274" W	608941.149	8825523.440	2754.63	1:43'08.007"	0.999897671	9226

NOTE:
STATION 9213 IS NGS STATION "COVE"
STATION 9220 IS NGS STATION "LA GRANDE CBL 0 PT"

JOB NO. 92010

SHEET 1 OF 1