ORIGINAL

BENTON COUNTY CONTROL REPORT
SURVEYOR'S OFFICE

CCR # 9
FILE DATE 4-13-1995
FILE SIZE 8½x11 & 8½x14
VERTICAL ☒
HORIZONTAL ☒

November 1994

Harrisburg GPS Project:

The Harrisburg project began August 31, 1994 (Julian day 243), using three TRIMBLE 4000SSE dual frequency receivers. We completed the project on September 1, 1994 (Julian day 244). After processing the data, we found we had a problem with point number 94217, so we reoccupied three sessions out of that point on October 6, 1994 (Julian day 279) to get a better solution on that point. Sessions 243-9, 243-D, 244-3, 244-6 were reprocessed separately to get better ratios and referance variances on those sessions. In addition to these sessions, we lost a fourth satelite on session 244-8 thus we repeated it with session 244-9. I processed "all" baselines from which the desire "trival" lines were deleted. All the baselines processed out as "IONO FREE FIXED" solutions except session 244-3, which after changing some of the processing parameters worked out ok. This session involved point 94217, since it was reocuppied on day 279, 244-3 was later deleted. After confirming that the loop closures checked good, it then went into the GPSURVEY NETWORK MODULE to do a minimally constrained adjustment (holding Northing, Easting and later Orthometric elevation on GPS 9203). This all looked good, so I added one more point at a time, until all five control were held fixed and I did a fully constrained adjustment. From this adjustment I took it into the TERRESTRIAL MODULE, and then the GEOID MODULE for the creation of a residual Geoid model. Having completed this using a gps scaler of 3.50 and a geoid scaler of 0.20 everything looked very good. The worst difference between published Ellipsoid and computed was 0.015, which was very good, so I left everything as adjusted.

HARRISBURG PROJECT

POINT NUMBER	LATITUDE/ LONGITUDE	SI FEET NORTHING/ EASTING	US FEET ELLIP./ ORTHO.
9203	44°13'44.3287"N	216216.062	260.620
	123°07'41.9544"W	7513241.560	331.689
9206	44°15'41.8259"N	228050.854	249.438
	123°07'17.5698"W	7515402.240	320.485
9207	44°15'39.9565"N	228216.690	243.077
	123°09'46.7676"W	7504543.955	313.920
9210	44°17'26.2820"N	239097.484	230.282
	123°10'36.3981"W	7501290.717	300.990
9211	44°17'13.3848"N	237291.515	240.866
	123°07'06.3576"W	7516518.224	311.886

THESE WERE HELD X,Y,&Z FOR THIS PROJECT.

HORIZONTAL CONTROL DATA

State Plane in International Feet, Elevations in U.S. Survey Feet

Station Number: 94218
Station Name:
Section: 4 Township: 15S Range: 4W
Corner: W 1/4 S.4 County: Linn
Date Set: 7-29-1994 State: OR
Firm: Linn County Surveyor
Addr: P.O. Box 100
Albany, OR 97321
(503) 967-3857

GPS: YES Type:
Group: C Order: 1
PPM: 10

GEODETIC DATUM: NAD83/91
LAT: 44° 17' 41.49711" N
LONG: 123° 11' 20.65297" W

SPCS DATUM: OREGON NORTH
Northing: 240744.313 N
Easting: 7498124.738 E
VERTICAL DATUM: NGVD 29/47
Ellipsoid Elev: 227.576
Orthometric Elev: 298.203
Geoid Sep.: -70.627

Convergence: -1° 54' 25.38372"
Scale Factor: 1.00000991
Ellipsoid Comb: 0.99999903

Statement per ORS 209.250(6) (g)
This work was performed by Linn County in September 1994, using 3 Trimble 4000SSE dual frequency GPS receivers. Horizontal control included previous GPS work by DEA Inc. Fixed horizontal stations: 9205, 9206, 9207, 9210, 9211. Vertical control was taken from the published orthometric elevations on all the above horizontal stations.

Directions to the Monument: DRIVE THROUGH HARRISBURG SEWAGE TREATMENT PLANT INTO FIELD ALONG THE WILLAMETTE RIVER. DRIVE ALONG THE RIVER BANK TO BEARING TREES, APPROX. 1/4 MILE NORTH. CORNER IS EAST 57.24' FROM 3/4" SQUARE ROD AND METAL POST IN BRUSH ROW ALONG THE EAST EDGE OF A SLOUGH.

Monument Type: 3¼" ALUM CAP IN CONCRETE, DOWN 1.5 FT.
Stamping: T15S R4W S5¦S4 1/4 (LINN COUNTY CASTING) 7-29-1994

Description of References:
3/4" SQUARE ROD WEST 57.24', IN OLD NORTH-SOUTH FENCE, 8" OF ROD EXPOSED,5 FT. STEEL GUARD POST 1.0' WEST; 36" OAK NORTH 23°35' WEST 123.81', HEALED FACE, NAIL ON SIDE; 1/2" ROD/YELLOW CAP EAST 29.00', 16" DOWN; 37" OAK SOUTHWESTERLY 68.11', AXE MARKS AND ROTTED BURNT CENTER, NAIL ON SIDE.

NOTE: BEFORE ENTERING THIS PROPERTY, CONTACT TIM BUNNELL (HARRISBURG PUBLIC WORKS) @995-6655. THEY HAVE A GATE ON THE SEWAGE TREATMENT PLANT ROAD THAT WILL HAVE TO BE OPENED.

REGISTERED
PROFESSIONAL
LAND SURVEYOR

B. Osburn Shaw

OREGON
OCTOBER 4, 1967
B. OSBURN SHAW
431

RENEWAL DATE
06-30-1996

1 meter=3.28083333 U.S. Feet=39.37 Inches exactly
1 meter=3.280839895 Intl. Feet or 1 inch=2.54 cm. exactly To calculate Elevation Factor (in the North America Continent) Divide 20,906,000 by 20,906,000 + Ellipsoid Elevation in feet.

LINN COUNTY SURVEYOR

GPS STATION DATA SHEET

Station Name: _____ **Station Number:** 94218

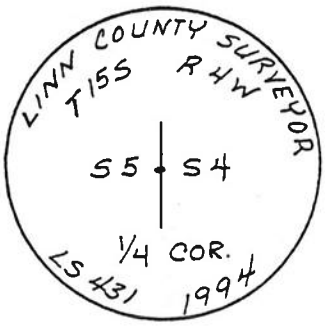
T. 15 **S., R.** 4 W **, Section** 4 **, Corner** W 1/4 Corner

Elevation: _____ **Road Location:** _____

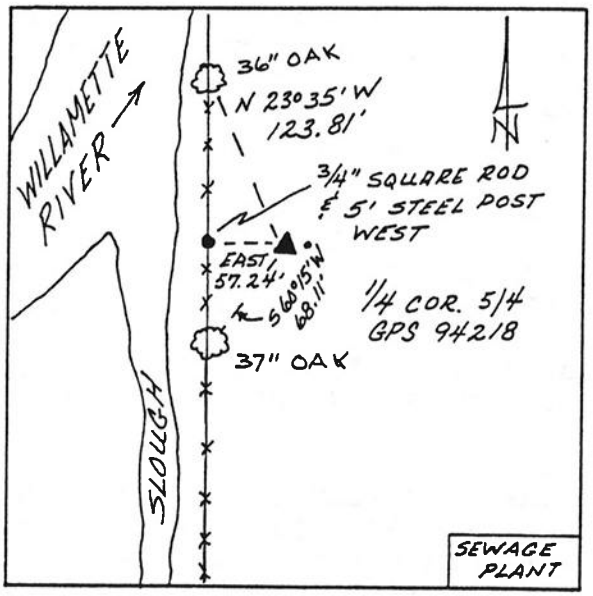
Date: 8-1-94 **By:** CG

Directions: Drive through Harrisburg sewage treatment plant into field along Willamette River. Drive along river bank to bearing trees: approx. 1/4 mile North.

MONUMENT



LOCATION SKETCH



Description: 3 1/4" Alum. cap in concrete; 1.5 ft. below the surface.

Date Set: 7-29-1994

Location, References: Corner is East 57.24 ft. from 3/4" square rod and metal post in brush row along East edge of a slough. 36" Oak, healed face, nail on side, North 23°35' West 123.81 ft.; 1/2" rod/yellow cap East 29.00 ft., 16" down; 37" Oak, axe marks and rotted, burnt center, nail on side, Southwesterly 68.11'.

Misc./Contact: Before entering this property, contact Tim Bunnell (Harrisburg Public Work) @ 995-6655 they have a gate on the sewage treatment plant road that will have to be opened.

(Visibility Diagram on back of page)

HORIZONTAL CONTROL DATA

State Plane in International Feet, Elevations in U.S. Survey Feet

Station Number: 94219
Station Name:
Section: 4 Township: 15S Range: 4W
Corner: NW COR S.4 County: Linn
Date Set: 7-29-1994 State: OR
Firm: Linn County Surveyor
Addr: P.O. Box 100
Albany, OR 97321
(503) 967-3857

GPS: YES Type:
Group: C Order: 1
PPM: 10

GEODETIC DATUM: NAD83/91
LAT: 44° 18' 7.59678" N
LONG: 123° 11' 20.98812" W

SPCS DATUM: OREGON NORTH
Northing: 243386.714 N
Easting: 7498188.334 E
VERTICAL DATUM: NGVD 29/47
Ellipsoid Elev: 224.980
Orthometric Elev: 295.593
Geoid Sep.: -70.613

Convergence: -1° 54' 25.62140"
Scale Factor: 1.00000801
Ellipsoid Comb: 0.99999726

Statement per ORS 209.250(6) (g)
This work was performed by Linn County in September 1994, using 3 Trimble 4000SSE dual frequency GPS receivers. Horizontal control included previous GPS work by DEA Inc. Fixed horizontal stations: 9205, 9206, 9207, 9210, 9211. Vertical control was taken from the published orthometric elevations on all the above horizontal stations.

Directions to the Monument: FROM APPROXIMATELY 225 FT. NORTH OF THE INTERSECTION OF PEORIA ROAD AND SUB STATION ROAD, GO WEST ALONG A GRAVEL FARM ROAD 0.6 ± MILE UNTIL YOU'RE ABOUT 250 FT. FROM THE WILLAMETTE RIVER BANK. THE CORNER IS THEN ABOUT 240 FT. SOUTH OF THE FENCE IN THE GRASS FIELD.

Monument Type: 3¼" ALUM CAP IN CONCRETE, DOWN 1.7 FT.
Stamping: T14S R4W 32/33 T15S R4W 5/4 (LINN COUNTY CASTING) 7-29-1994

Description of References:
12/" ROD NORTH 0°05'26" EAST 239.47', 6" SOUTH OF FENCE, STEEL GUARD POST 0.5' NORTH; 1/2" ROD/YELLOW CAP EAST 22.93', SILVER MAGNET 0.2' SOUTH, 1.0' DOWN; 1/2" ROD/YELLOW CAP SOUTH 22.98', ORANGE MAGNET 0.25' WEST, 16" DOWN; 1/2" ROD/YELLOW CAP WEST 223.38', 10" DOWN ON EDGE OF FIELD; 3/4" BOLT, LEANING WEST ON EDGE OF RIVER BANK, WEST 227.53'.

REGISTERED
PROFESSIONAL
LAND SURVEYOR

B. Osburn Shaw

OREGON
OCTOBER 4, 1967
B. OSBURN SHAW
491

RENEWAL DATE
06-30-1996

1 meter=3.28083333 U.S. Feet=39.37 Inches exactly
1 meter=3.280839895 Intl. Feet or 1 inch=2.54 cm. exactly To calculate Elevation Factor (in the North America Continent) Divide 20,906,000 by 20,906,000 + Ellipsoid Elevation in feet.

LINN COUNTY SURVEYOR

GPS STATION DATA SHEET

Station Number: 94219 Station Name: _____

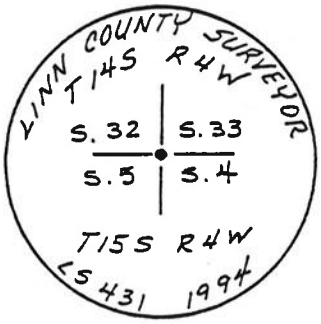
T. 15 S., R. 4 W, Section 4, Corner NW Cor. Sec. 4

Elevation: _____ Road Location: _____

Date: 7-29-94 By: LK

Directions to Monument: From approximately 225 ft. North of the intersection of Peoria Road and Sub Station Rd., go West along a gravel farm road 0.6 +- mile until you're about 250 ft. from the Willamette River bank. The corner is then about 240 ft. South of the fence in the grass field.

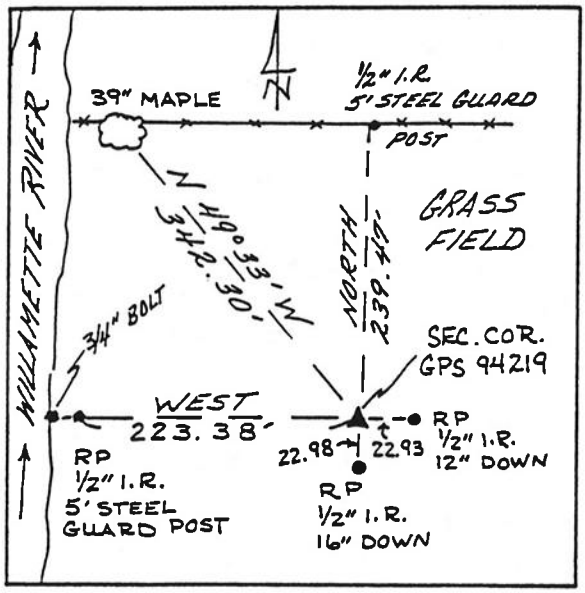
MONUMENT



Description: 3 1/4" Alum. cap in concrete. Down 1.7 ft. below surface.

Date Set: 7-29-1994

LOCATION SKETCH



Location, References: Corner can be located from RP's as shown. Enter along field lane just North of Substation intx.; head West into field about 0.6 mile. R.P.'s: 1/2" rod N 0°05'26" E 239.47', 6" South of fence, steel guard post 0.5' North; 1/2" rod/yellow cap, East 22.93', silver magnet

Misc./Contact: 0.2' South, 1.0' down; 1/2" rod/yellow cap South 22.98', orange magnet 0.25' West, 16" down; 1/2" rod/yellow cap West 223.38', 10" down on edge of field; 3/4" Bolt, leaning West on edge of river bank, West 227.53'.

(Visibility Diagram on back of page)

HORIZONTAL CONTROL DATA

State Plane in International Feet, Elevations in U.S. Survey Feet

LANE COUNTY
Station Number: 94223
Station Name:
Section: 8 Township: 15S Range: 4W
Corner: SE COR S.8 County: Linn
Date Set: 1981 State: OR
Firm: Linn County Surveyor
Addr: P.O. Box 100
Albany, OR 97321
(503) 967-3857

GPS: YES Type:
Group: C Order: 1
PPM: 10

GEODETIC DATUM: NAD83/91
LAT: 44° 16' 23.04487" N
LONG: 123° 11' 20.40493" W

SPCS DATUM: OREGON NORTH
Northing: 232803.421 N
Easting: 7497878.390 E
VERTICAL DATUM: NGVD 29/47
Ellipsoid Elev: 234.239
Orthometric Elev: 304.900
Geoid Sep.: -70.661

Convergence: -1° 54' 25.20781"
Scale Factor: 1.00001572
Ellipsoid Comb: 1.00000452

Statement per ORS 209.250(6) (g)
This work was performed by Linn County in September 1994, using 3 Trimble 4000SSE dual frequency GPS receivers. Horizontal control included previous GPS work by DEA Inc. Fixed horizontal stations: 9205, 9206, 9207, 9210, 9211. Vertical control was taken from the published orthometric elevations on all the above horizontal stations.

Directions to the Monument: GO 0.7 MILE ALONG McMULLEN ROAD FROM INTERSECTION WITH HIGHWAY 99E. CORNER IS 0.15 MILE WEST FROM 90° CURVE AND IN FRONT OF 29623 McMULLEN ROAD, 1.2' SOUTH OF CENTERLINE STRIPE.

Monument Type: 2 3/4" BRASS CAP IN CONCRETE, FLUSH
Stamping: T15S R4W 8,9,16,17 (LANE COUNTY SURVEYORS OFFICE) 1981

Description of References:

RENEWAL DATE
06-30-1996

1 meter=3.28083333 U.S. Feet=39.37 Inches exactly
1 meter=3.280839895 Intl. Feet or 1 inch=2.54 cm. exactly To calculate Elevation Factor (in the North America Continent) Divide 20,906,000 by 20,906,000 + Ellipsoid Elevation in feet.

LINN COUNTY SURVEYOR

GPS STATION DATA SHEET

Lane County

Station Name: _____ **Station Number:** 94223

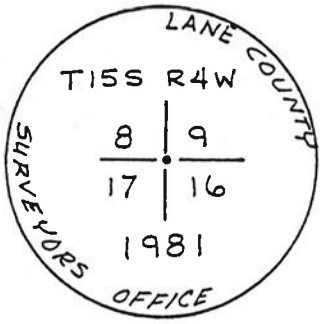
T. 15 **S., R.** 4 W, **Section** 8, **Corner** S.E. Corner

Elevation: _____ **Road Location:** McMullen Road

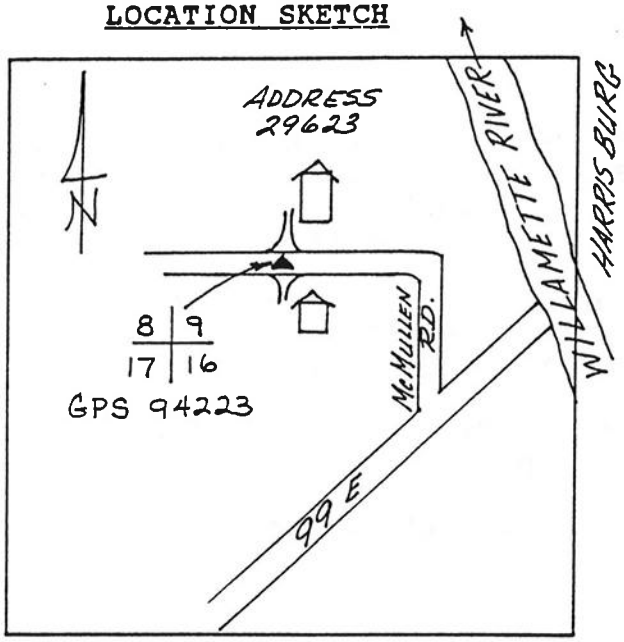
Date: 8-26-94 **By:** KL

Directions: 0.7 mile along McMullen Road from intersection with Hwy. 99E.

MONUMENT



LOCATION SKETCH



Description: 2 3/4" Brass cap in concrete; flush.

Date Set: 1981

Location, References: In front of 29623 McMullen Road; 1.2' South of centerline stripe.

Misc./Contact: 0.15 mile from 90° curve

(Visibility Diagram on back of page)

HORIZONTAL CONTROL DATA

State Plane in International Feet, Elevations in U.S. Survey Feet

BENTON COUNTY
Station Number: 94224
Station Name:
Section: 5 Township: 15S Range: 4W
Corner: SW COR S.5 County: Linn
Date Set: 1992 State: OR
Firm: Linn County Surveyor
Addr: P.O. Box 100
Albany, OR 97321
(503) 967-3857

GPS: YES Type:
Group: C Order: 1
PPM: 10

GEODETIC DATUM: NAD83/91
LAT: 44° 17' 15.76127" N
LONG: 123° 12' 33.36290" W

SPCS DATUM: OREGON NORTH
Northing: 238316.216 N
Easting: 7492751.881 E
VERTICAL DATUM: NGVD 29/47
Ellipsoid Elev: 222.577
Orthometric Elev: 293.088
Geoid Sep.: -70.511

Convergence: -1° 55' 16.94859"
Scale Factor: 1.00001180
Ellipsoid Comb: 1.00000116

Statement per ORS 209.250(6) (g)
This work was performed by Linn County in September 1994, using 3 Trimble 4000SSE dual frequency GPS receivers. Horizontal control included previous GPS work by DEA Inc. Fixed horizontal stations: 9205, 9206, 9207, 9210, 9211. Vertical control was taken from the published orthometric elevations on all the above horizontal stations.

Directions to the Monument: FROM INTERSECTION OF 99E AND NORATION, TRAVEL NORTH ALONG NORATION 2.0 MILES TO A WOODEN ARCH, THEN NORTH ALONG GRAVEL LANE 0.65 MILE TO CORNER. CORNER IS 7.0 FT. WEST OF CENTERLINE OF GRAVEL LANE AND OPPOSITE DRIVEWAY TO A HOME.

Monument Type: 3¼" BRASS CAP, DOWN 0.5 FT.
Stamping: T15S R4W S6, S5, S7, S8 (BENTON COUNTY CASTING) 1992

Description of References:

REGISTERED
PROFESSIONAL
LAND SURVEYOR
B. Osburn Shaw
OREGON
OCTOBER 4, 1967
B. OSBURN SHAW
491
RENEWAL DATE
06-30-1996

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LINN COUNTY SURVEYOR

GPS STATION DATA SHEET

Benton County

Station Name: _____ **Station Number:** 94224

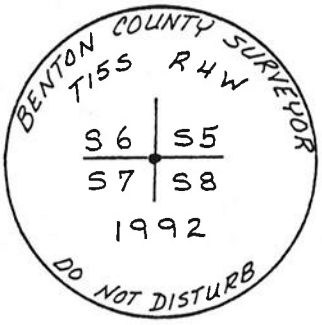
T. 15 **S., R.** 4 W, **Section** 5, **Corner** Southwest Cor Sec 5

Elevation: _____ **Road Location:** Adams Lane

Date: _____ **By:** KL

Directions: From intersection of 99 E and Noration, travel North along Noration 2.0 mi. to wooden arch, then North along gravel lane 0.65 mi. to corner.

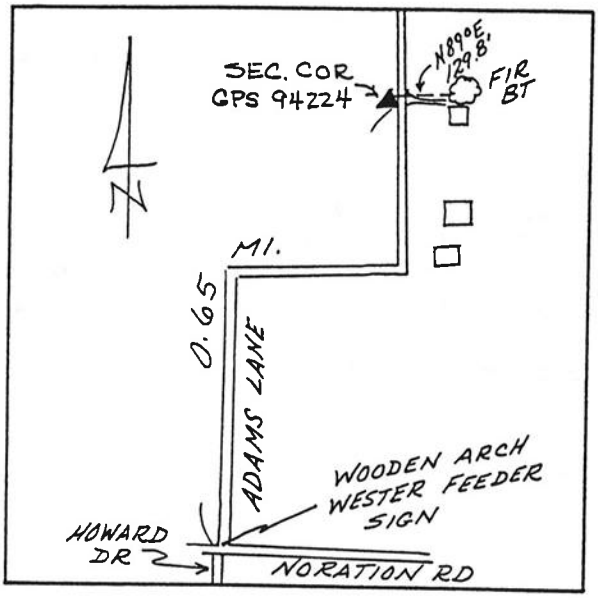
MONUMENT



Description: 3 1/4" brass cap. Down 0.5 ft.

Date Set: _____

LOCATION SKETCH



Location, References: Corner is 7 ft. West of centerline gravel lane and opposite driveway to a home.

Misc./Contact: _____

(Visibility Diagram on back of page)

HORIZONTAL CONTROL DATA

State Plane in International Feet, Elevations in U.S. Survey Feet

LANE COUNTY
Station Number: 94228
Station Name:
Section: 9 Township: 15S Range: 4W
Corner: S 1/4 S.9 County: Linn
Date Set: 12-23-1987 State: OR
Firm: Linn County Surveyor
Addr: P.O. Box 100
Albany, OR 97321
(503) 967-3857

GPS: YES Type:
Group: C Order: 1
PPM: 10

GEODETIC DATUM: NAD83/91
LAT: 44° 16' 22.87903" N
LONG: 123° 10' 44.01263" W

SPCS DATUM: OREGON NORTH
Northing: 232698.685 N
Easting: 7500524.295 E
VERTICAL DATUM: NGVD 29/47
Ellipsoid Elev: 229.737
Orthometric Elev: 300.457
Geoid Sep.: -70.720

Convergence: -1° 53' 59.39891"
Scale Factor: 1.00001573
Ellipsoid Comb: 1.00000475

Statement per ORS 209.250(6) (g)
This work was performed by Linn County in September 1994, using 3 Trimble 4000SSE dual frequency GPS receivers. Horizontal control included previous GPS work by DEA Inc. Fixed horizontal stations: 9205, 9206, 9207, 9210, 9211. Vertical control was taken from the published orthometric elevations on all the above horizontal stations.

Directions to the Monument: FROM A BRIDGE OVER THE WILLAMETTE RIVER GO WEST TO FIRST DRIVEWAY THROUGH GUARD RAIL ON NORTH SIDE OF THE ROAD. FOLLOW DRIVEWAY TO THE HOUSE. **IF THE GATE IS CLOSED, FOLLOW THE DIRECTIONS TO GPS 94223 AND TAKE THE GRAVEL LANE NORTH & EAST TO THE FIRST HOUSE (ED SPLAWN 995-8664). GO JUST BEYOND THE SHOP AND TAKE THE GRAVEL/DIRT FIELD ROAD SOUTH & EAST, FOLLOW IT AROUND TO THE HOUSE ABOVE AND ENTER THE FIELD AS ABOVE.

Monument Type: 2½" BRASS CAP, DOWN 1.4 FT.
Stamping: 1/4 S.9-S.16 (LANE COUNTY CASTING) 12-23-1987

Description of References:
5/8" ROD/ALUM. CAP SOUTH 62° WEST 217.65 FT., STEEL POST AND SIGN; 5/8" ROD/ALUM. CAP NORTH 67°19'21" WEST 209.44 FT., STEEL POST AND SIGN; POWER POLE NORTH 15° EAST 176.09 FT.

REGISTERED
PROFESSIONAL
LAND SURVEYOR

B. Osburn Shaw

OREGON
OCTOBER 4, 1967
B. OSBURN SHAW
491

RENEWAL DATE
06-30-1996

1 meter=3.28083333 U.S. Feet=39.37 Inches exactly
1 meter=3.280839895 Intl. Feet or 1 inch=2.54 cm. exactly To calculate Elevation Factor (in the North America Continent) Divide 20,906,000 by 20,906,000 + Ellipsoid Elevation in feet.

LINN COUNTY SURVEYOR

GPS STATION DATA SHEET

Lane County

Station Name: _____ **Station Number:** 94228

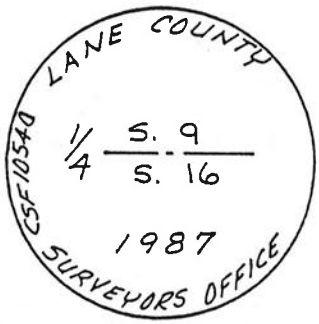
T. 15 **S., R.** 4 **W, Section** 9 **, Corner** South 1/4

Elevation: _____ **Road Location:** Hwy 99 E

Date: 8-30-94 **By:** CG

Directions: From bridge over Willamette River, go West to first driveway through guard rail on North side of road. Follow driveway to house.

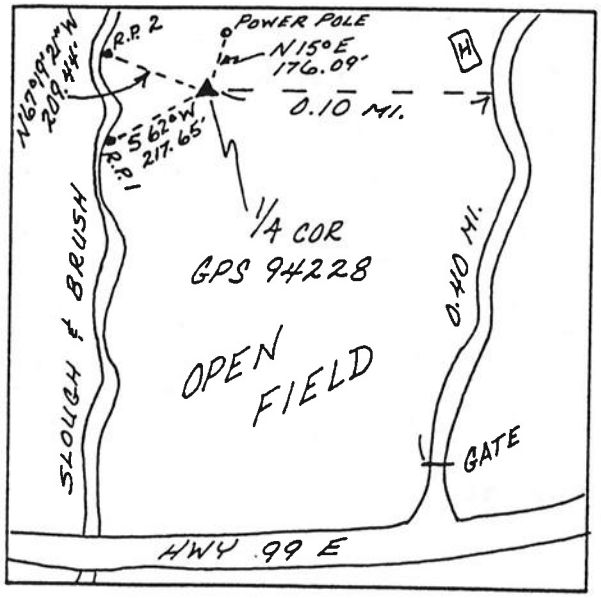
MONUMENT



Description: 2 1/2" Brass cap in Lane County; 1.4 ft. down.

Date Set: 12-23-1987

LOCATION SKETCH

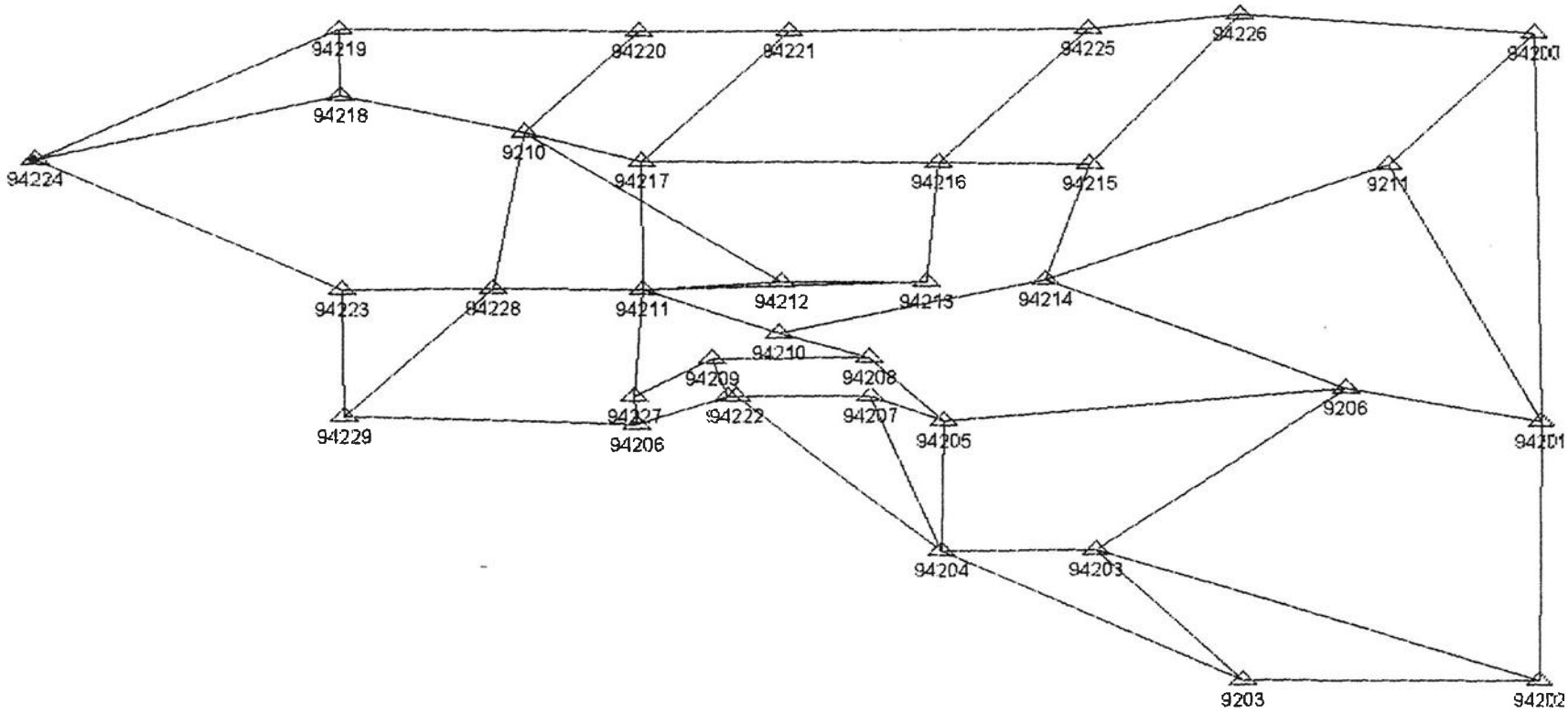


Location, References: R.P. #1: 5/8" I.R./Alum. cap S 62° W 217.65', steel post and sign. R.P. #2: 5/8" I.R./Alum. cap N 67°19'21" W 209.44', steel post and sign. Power pole N 15° E 176.09'. ** If the gate is closed, follow the directions to GPS 94223 and take the gravel lane North & East to the first house (Ed Splawn 995-8664). Go just beyond the shop and take the gravel/dirst field road South & East; follow it around to the house above and enter the field as above.

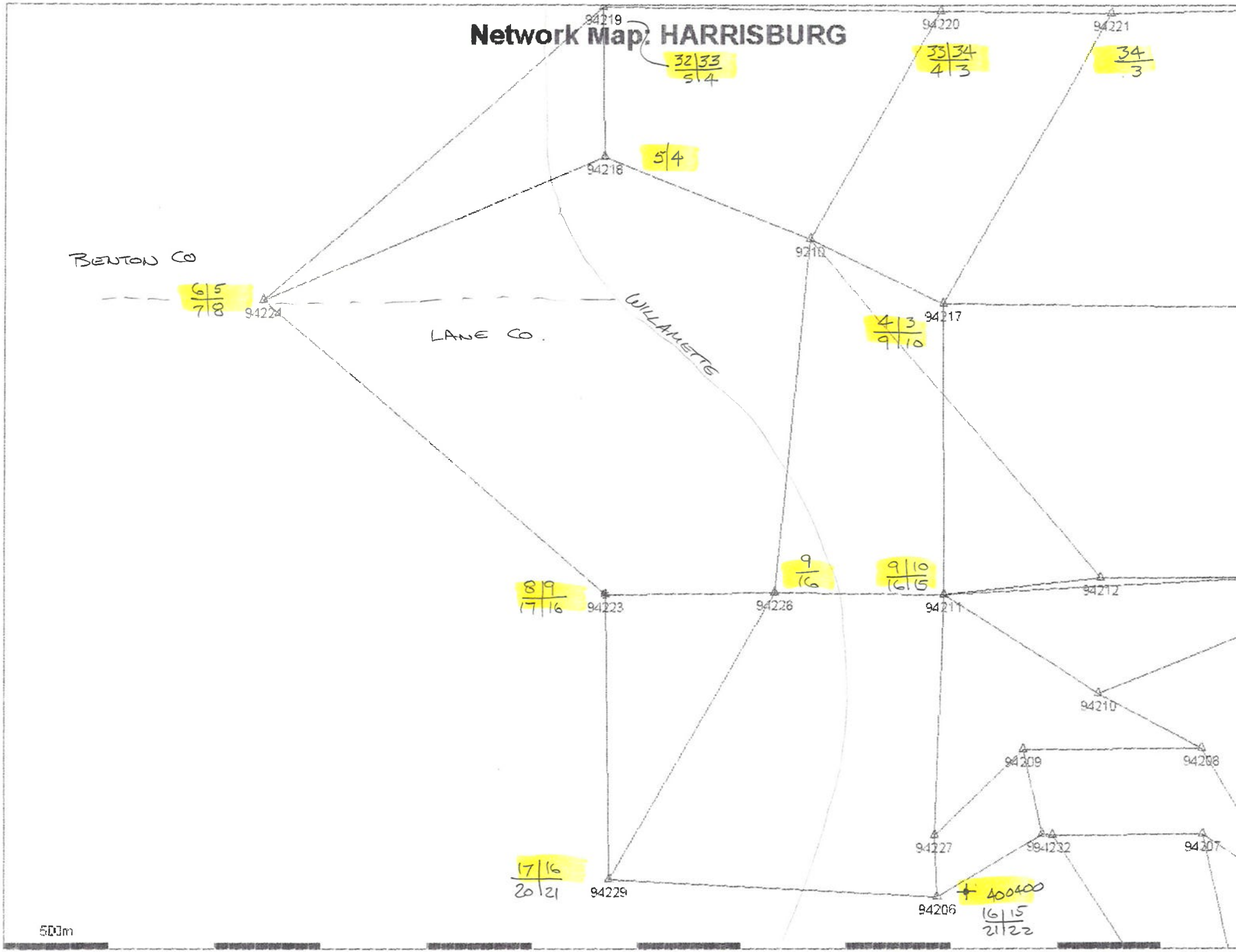
Misc./Contact: ~~XXXXXXXXXXXXXXX~~

(Visibility Diagram on back of page)

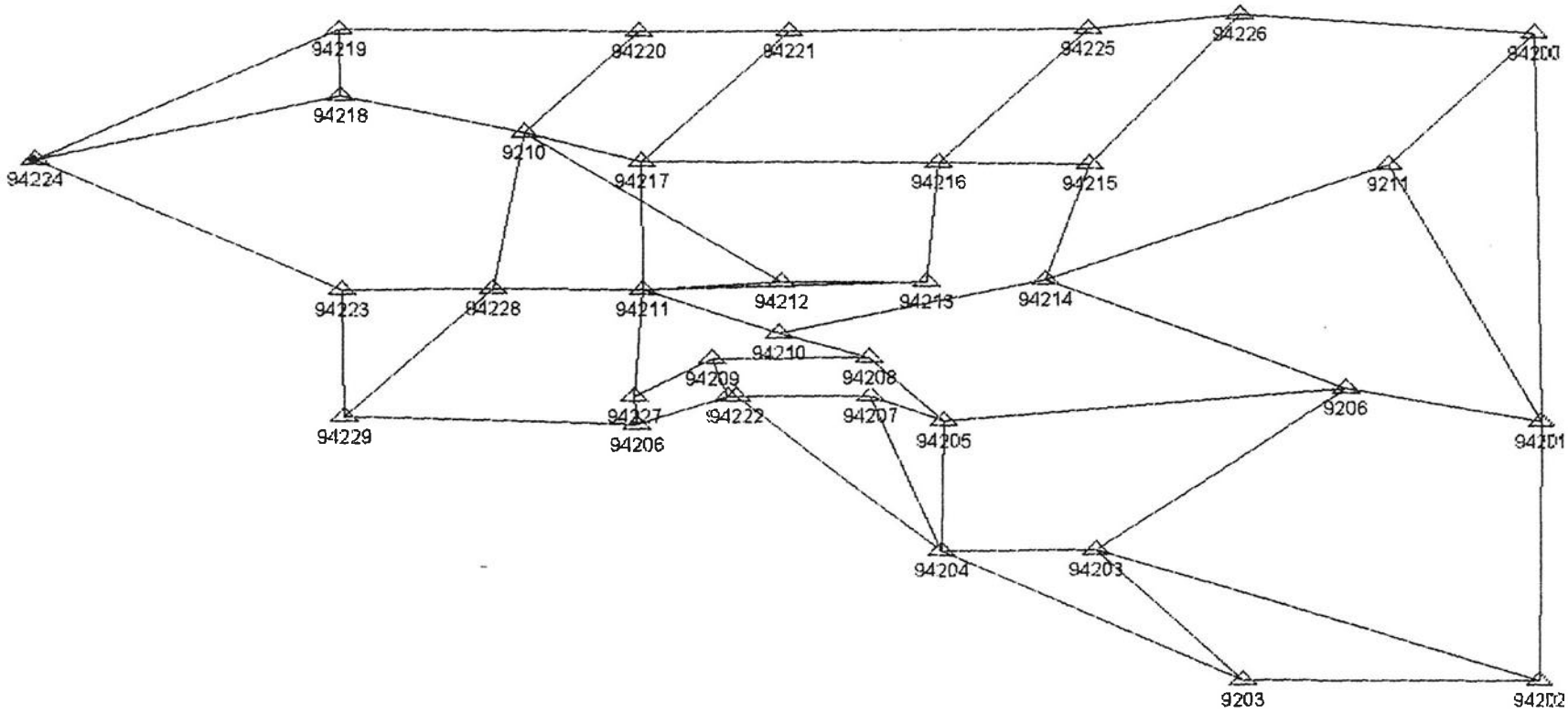
Network Map: HARRISBURG



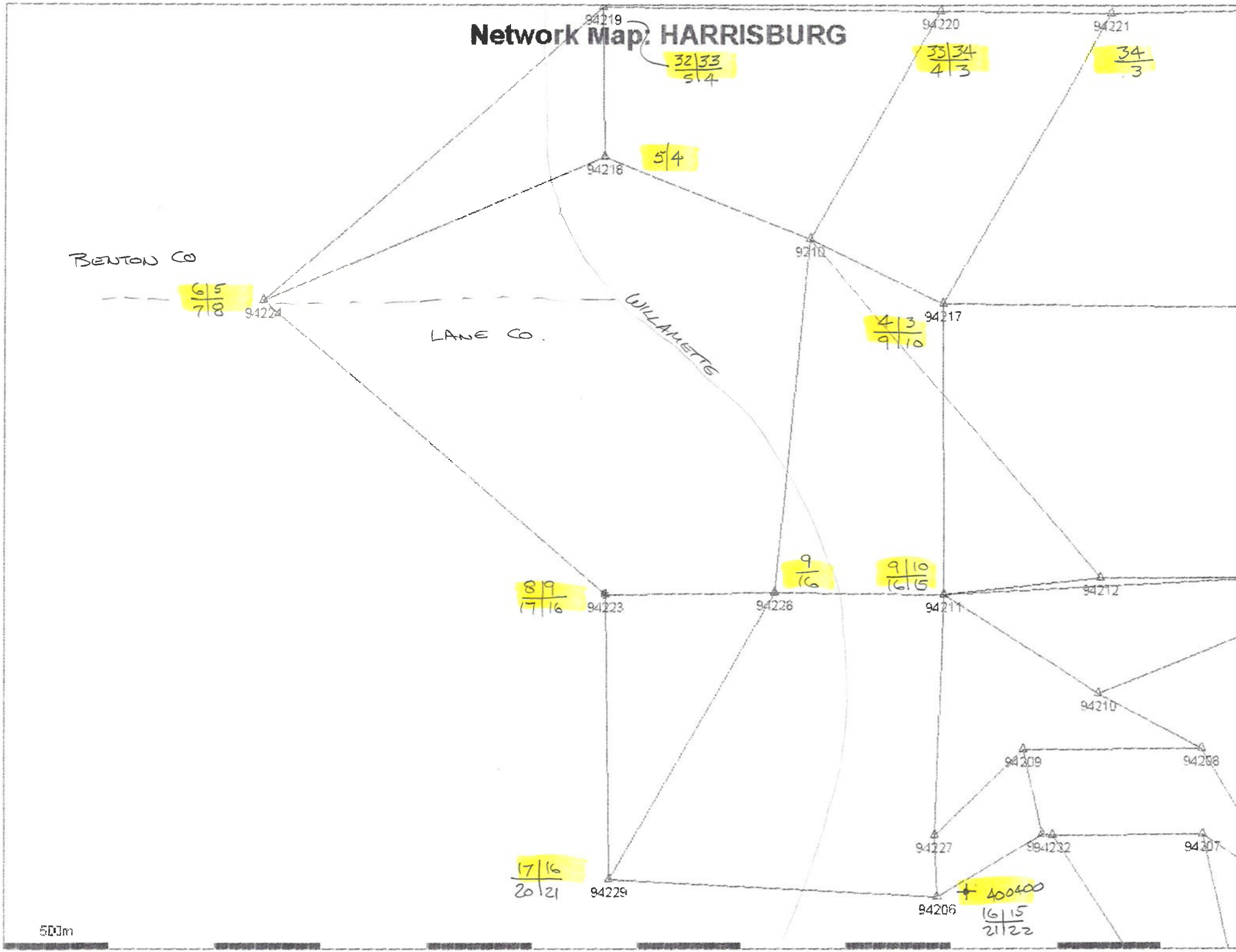
1000m


Network Map: HARRISBURG
94219
94220
94221
32|33
5|4
33|34
4|3
34
3
5|4
94218
94210
BENTON CO
6|5
7|8
94224
WILLAMETTE
LANE CO.
94217
4|3
9|10
9
16
9|10
16|15
8|9
17|16
94223
94226
94211
94212
94210
94209
94208
94227
94232
94207
17|16
20|21
94229
94206
400400
16|15
21|22
500m

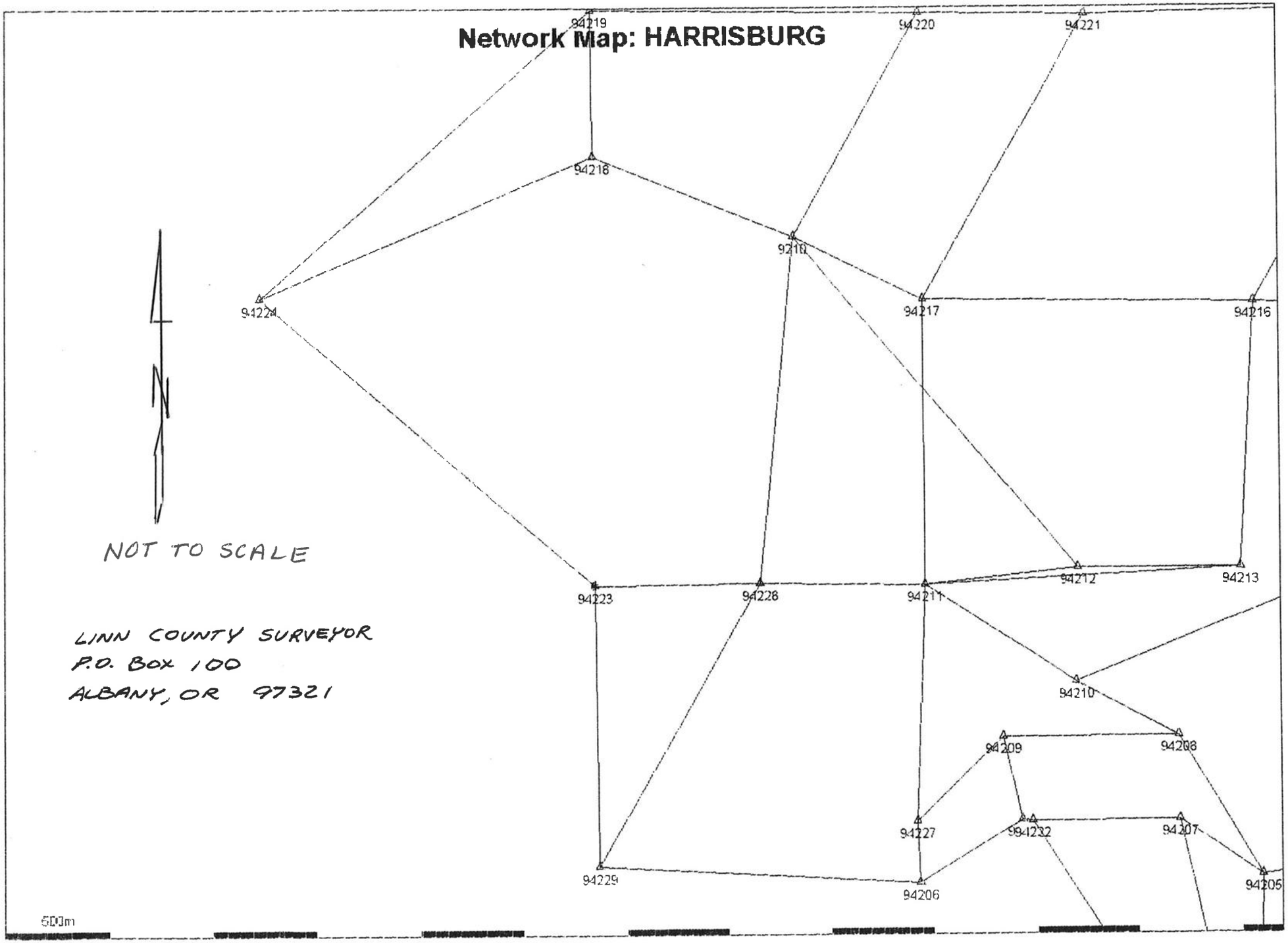
Network Map: HARRISBURG



1000m


Network Map: HARRISBURG
94219
94220
94221
32|33
5|4
33|34
4|3
34
3
5|4
94218
94210
BENTON CO
6|5
7|8
94224
WILLAMETTE
LANE CO.
94217
4|3
9|10
9
16
9|10
16|15
8|9
17|16
94223
94226
94211
94212
94210
94209
94208
94227
94232
94207
17|16
20|21
94229
94206
400400
16|15
21|22
500m

Network Map: HARRISBURG



NOT TO SCALE

LINN COUNTY SURVEYOR
P.O. BOX 100
ALBANY, OR 97321

94200	,242500.841	N,	7519327.740	E,	-1°	50'	59.30417",	1.00000815,	0.99999716,	44°	18'	5.69629"	N,	123°	6'	30.06694"	W,	300.821,	229.785,	-71.036
94201	,226586.332	N,	7518855.446	E,	-1°	50'	58.89816",	1.00001984,	1.00000775,	44°	15'	28.47510"	N,	123°	6'	29.49444"	W,	324.143,	253.047,	-71.096
94202	,215980.698	N,	7518550.175	E,	-1°	50'	58.53572",	1.00002795,	1.00001539,	44°	13'	43.70426"	N,	123°	6'	28.98337"	W,	334.040,	262.890,	-71.149
94203	,221615.258	N,	7510762.308	E,	-1°	52'	16.13648",	1.00002381,	1.00001185,	44°	14'	36.81825"	N,	123°	8'	18.40566"	W,	321.119,	250.127,	-70.992
94204	,221723.451	N,	7508123.867	E,	-1°	52'	41.86063",	1.00002379,	1.00001187,	44°	14'	37.03373"	N,	123°	8'	54.67845"	W,	320.814,	249.372,	-70.942
94205	,227007.617	N,	7508271.707	E,	-1°	52'	42.10849",	1.00001978,	1.00000820,	44°	15'	29.23946"	N,	123°	8'	55.02795"	W,	313.203,	242.293,	-70.910
94206	,227134.496	N,	7502879.917	E,	-1°	53'	34.66010",	1.00001982,	1.00000858,	44°	15'	28.73373"	N,	123°	10'	9.12926"	W,	306.064,	235.264,	-70.800
94207	,228142.998	N,	7507075.714	E,	-1°	52'	54.11965",	1.00001896,	1.00000725,	44°	15'	40.05161"	N,	123°	9'	11.96449"	W,	315.949,	245.070,	-70.879
94208	,229685.504	N,	7507120.550	E,	-1°	52'	54.16055",	1.00001784,	1.00000624,	44°	15'	54.79636"	N,	123°	9'	12.02216"	W,	313.723,	242.851,	-70.872
94209	,229709.652	N,	7504309.445	E,	-1°	53'	21.56520",	1.00001786,	1.00000633,	44°	15'	54.61483"	N,	123°	9'	50.66456"	W,	312.051,	241.237,	-70.815
94210	,230692.315	N,	7505531.081	E,	-1°	53'	9.98136",	1.00001710,	1.00000559,	44°	16'	4.71052"	N,	123°	9'	34.33057"	W,	311.574,	240.739,	-70.835
94211	,232583.667	N,	7503172.543	E,	-1°	53'	33.56390",	1.00001575,	1.00000448,	44°	16'	22.60920"	N,	123°	10'	7.58354"	W,	306.562,	235.784,	-70.779
94212	,232841.842	N,	7505623.096	E,	-1°	53'	9.77454",	1.00001550,	1.00000403,	44°	16'	25.95505"	N,	123°	9'	34.03894"	W,	310.782,	239.954,	-70.828
94213	,232768.127	N,	7508215.801	E,	-1°	52'	44.49351",	1.00001549,	1.00000397,	44°	16'	26.06857"	N,	123°	8'	58.39099"	W,	311.845,	240.966,	-70.879
94214	,232706.844	N,	7510243.100	E,	-1°	52'	24.72448",	1.00001549,	1.00000401,	44°	16'	26.11920"	N,	123°	8'	30.51533"	W,	310.997,	240.079,	-70.918
94215	,237513.795	N,	7511242.242	E,	-1°	52'	16.52098",	1.00001194,	1.00000082,	44°	17'	13.88389"	N,	123°	8'	18.94784"	W,	303.510,	232.594,	-70.916
94216	,237617.432	N,	7508603.376	E,	-1°	52'	42.26717",	1.00001192,	1.00000084,	44°	17'	14.05421"	N,	123°	8'	55.25169"	W,	302.766,	231.900,	-70.866
94217	,237860.476	N,	7503328.182	E,	-1°	53'	33.74645",	1.00001187,	1.00000082,	44°	17'	14.73894"	N,	123°	10'	7.84094"	W,	302.003,	231.243,	-70.760
94218	,240744.313	N,	7498124.738	E,	-1°	54'	25.38372",	1.00000991,	0.99999903,	44°	17'	41.49711"	N,	123°	11'	20.65297"	W,	298.203,	227.576,	-70.627
94219	,243386.714	N,	7498188.334	E,	-1°	54'	25.62140",	1.00000801,	0.99999726,	44°	18'	7.59678"	N,	123°	11'	20.98812"	W,	295.593,	224.980,	-70.613
94220	,243144.931	N,	7503484.327	E,	-1°	53'	33.92661",	1.00000805,	0.99999717,	44°	18'	6.94439"	N,	123°	10'	8.09499"	W,	298.458,	227.723,	-70.735
94221	,243029.733	N,	7506125.546	E,	-1°	53'	8.14722",	1.00000807,	0.99999711,	44°	18'	6.66726"	N,	123°	9'	31.74431"	W,	300.227,	229.436,	-70.791
94222	,228203.901	N,	7504696.939	E,	-1°	53'	17.30742",	1.00001897,	1.00000733,	44°	15'	39.88005"	N,	123°	9'	44.66080"	W,	314.563,	243.734,	-70.829
94223	,232803.421	N,	7497878.390	E,	-1°	54'	25.20781",	1.00001572,	1.00000452,	44°	16'	23.04487"	N,	123°	11'	20.40493"	W,	304.900,	234.239,	-70.661
94224	,238316.216	N,	7492751.881	E,	-1°	55'	16.94859",	1.00001180,	1.00000116,	44°	17'	15.76127"	N,	123°	12'	33.36290"	W,	293.088,	222.577,	-70.511
94225	,242967.920	N,	7511410.243	E,	-1°	52'	16.62032",	1.00000799,	0.99999685,	44°	18'	7.76778"	N,	123°	8'	19.08790"	W,	304.137,	233.243,	-70.894
94226	,243509.149	N,	7514097.235	E,	-1°	51'	50.60302",	1.00000755,	0.99999651,	44°	18'	13.97425"	N,	123°	7'	42.40177"	W,	301.886,	230.945,	-70.940
94227	,228260.132	N,	7502882.903	E,	-1°	53'	34.99336",	1.00001898,	1.00000782,	44°	15'	39.84404"	N,	123°	10'	9.59917"	W,	304.141,	233.347,	-70.793
94228	,232698.685	N,	7500524.295	E,	-1°	53'	59.39891",	1.00001573,	1.00000475,	44°	16'	22.87903"	N,	123°	10'	44.01263"	W,	300.457,	229.737,	-70.720
94229	,227580.251	N,	7497700.246	E,	-1°	54'	25.23284",	1.00001965,	1.00000852,	44°	15'	30.94376"	N,	123°	11'	20.44022"	W,	303.604,	232.918,	-70.686

HARRISBURG (NEW GPS ONLY)

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