



EAGLE
GPS Survey Corporation

GEODETIC CONTROL SURVEY
FOR
BUFORD AND ASSOCIATES
UMATILLA-HERMISTON AREA
UMATILLA COUNTY, OREGON

NARRATIVE

THE PURPOSE OF THIS SURVEY WAS TO ESTABLISH HORIZONTAL AND VERTICAL POSITIONS ON (51) PHOTO CONTROL PREMARKS IN THE AREA OF UMATILLA AND HERMISTON, OREGON.

THE ROUTE RAN, GENERALLY, FROM MCNARY DAM, SOUTHERLY TO HINKLE, THEN FROM HINKLE, WESTERLY TO WESTLAND ROAD, AND FROM HINKLE, EASTERLY, TO STATE HIGHWAY 395.

THREE (3) TRIMBLE 4000SSE, DUAL FREQUENCY, P-CODE RECEIVERS WERE USED FOR DATA COLLECTION. TRIMBLE'S "GPSURVEY" PROGRAM VERSION 1.1 WAS USED TO POST PROCESS THE BASELINES OR VECTORS.

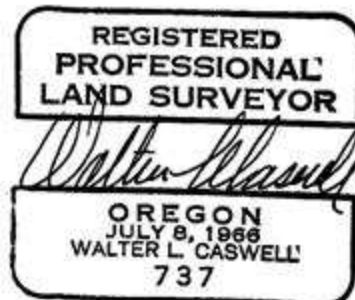
"GEOLAB" VERSION 2.4A WAS USED FOR THE NETWORK ADJUSTMENT.

TWO (2) HIGH PRECISION CONTROL POINTS WERE USED FOR HORIZONTAL CONTROL. THEY WERE "STANDFIELD EAST BASE RESET" STAMPED "STANFIELD EAST BASE USC&GS 1916 1941", (IN OREGON) AND "B 340" (IN BENTON COUNTY, WASHINGTON) STAMPED "B 340 1951". "B 340" IS A BENCH MARK ON THE WASHINGTON SIDE OF THE COLUMBIA RIVER AND WAS HELD FOR VERTICAL CONTROL FOR THE HIGH PRECISION CONTROL NETWORK. WE ALSO OCCUPIED A BENCH MARK ON THE OREGON SIDE OF THE COLUMBIA RIVER, "Y377". COMPARING THE ELEVATIONS OF THE BENCH MARKS ON THE SOUTH SIDE OF THE RIVER TO "B 340", SHOWS THAT THE ELEVATIONS ARE 0.04' TO 0.11' HIGHER THAN B.M. "B 340". I DECIDED NOT TO HOLD B.M. "B 340" FOR VERTICAL CONTROL.

I HELD BENCH MARK Y377, POINTS 9326, 0614 AND 0634 FOR VERTICAL CONTROL. THIRD ORDER DIFFERENTIAL LEVELS WERE USED TO TRANSFER THE ELEVATIONS FROM BENCH MARK "N520" TO 0634, BENCH MARK "K614" TO 0614 AND U.S. RECLAMATION BENCH MARK "556.019" TO 9326.

THE FIELD WORK WAS PERFORMED ON JUNE 29 AND 30 AND JULY 1, 1993.

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