BASSEY & SEVENMILE CREEK GPS CONTROL SURVEY **FOR** UMATILLA NATIONAL FOREST LOCATED IN TOWNSHIP 1 SOUTH, RANGES 32, 33 & 34 EAST, TOWNSHIP 2 SOUTH. RANGE 34 EAST. 9101 WILLAMETTE MERIDIAN UMATILLA COUNTY, OREGON JUNE - SEPTEMBER. 1995 NARRATIVE: THE PURPOSE OF THIS SURVEY WAS TO PROVIDE BOTH HORIZONTAL AND VERTICAL CONTROL FOR UPDATING U.S. GEOLOGICAL SURVEY'S 7 1/2 MINUTE QUADRANGLE MAPS BASSEY CREEK AND SEVENMILE CREEK. THE SURVEY WAS CONDUCTED USING FEDERAL GEODETIC CONTROL COMMITTEE (FGCC) ORDER C, SECOND ORDER, CLASS 1 GPS SURVEY SPECIFICATIONS. ALL COORDINATES PROVIDED ARE MADB1(1991) VALUES BASED ON THE OREGON HIGH PRECISION GPS CONTROL NETWORK. THE EQUIPMENT USED WAS THREE TRIMBLE 4000SSE, DUAL FREQUENCY, RECEIVERS WITH EXTERNAL L1 & L2 GEODETIC ANTENNAS, NIKON TRIBRACHS, AND STANDARD SURVEY TRIPDOS. THE ANTENNA HEIGHTS WERE MEASURED USING WILD'S HEIGHT HOOK SYSTEM. DATUM: NADB3(1991) ZONE: 3601 (OREGON NORTH) STATE PLANE COORDINATES IN: METERS FAST STATIC, CARRIER PHASE MEASUREMENTS AND DATA PROCESSING WAS USED ON ALL BASELINE MEASUREMENTS AND THE BASELINES WERE EVALUATED BY EXAMINATION OF STATISTICAL QUALITY INDICATORS AND LOOP CLOSURE ANALYSIS. THE BASELINES WERE THEN ADJUSTED IN A LEAST SQUARES ADJUSTMENT PROGRAM USING THE THREE EXISTING GRS CONTROL POINTS (9027 = BIRCH 1916, 9101 = PROLECTION, AND 9198 = BIG HILL 1916) AS FIXED CONTROL BOTH HORIZONTALLY (LATITUDE & LONGITUDE) AND VERTICALLY (ELLIPSION HEIGHT). THE COORDINATES OF POINTS 9101 AND 9198 WERE STABLISHED BY THE NATIONAL GEODETIC SURVEY AND THE COORDINATES OF POINT 9027 WAS ESTABLISHED BY DAVID EVANS AND EXSOCRATES WORKING UNDER CONTRACT TO THE USDA-FOREST SERVICE ON A 1990 ORTHO-PHOTO CONTROL PROJECT FOR THE UMATILLA AND WALLOWA-WHITMAN NATIONAL PROPERTY. 9198 COMPUTER SOFTWARE USED IN THIS SURVEY CONSISTED OF TRIMBLE NATIVATION'S GPSURVEY (VERSION 2.00) SOFTWARE SUITE WHICH WAS USED FOR ALL PROCESSING. NATIONAL GEODETIC SURVEY'S GEODED WAS USED TO INTERPOLATE THE GEOID SEPERATIONS FOR EACH STATION. DATUM: NAD83(1991) STATE PLANE COORDINATES: 3601 OREGON NORTH ZONE (METERS) ELLIPSOID GEOID HEIGHT(m) SEPARATION(m) 1381.294 –17.640 ORTHOMETRIC HEIGHT(m) 1398.934  $\varepsilon$ NORTHING(m) EASTING(m) 194678.223 2647043.725 223723.052 2634210.132 216656.186 2653660.86 205229.782 2636694.614 CONVERGENCE LATITUDE LONGITUDE LAITIUBE UNGITUBE NORTHING(m) EASTING(m)
5724\*11.57646\* N. 1183\*171.40022\* N. 194678.232 264704.325\*
5549\*01.47543\* N. 1183\*148.55294\* W. 194678.232 264704.325\*
553\*58.2253\* N. 1183\*148.55294\* W. 216655.866 265.5660.866
453\*030.82833\* N. 1183\*452.65760\* W. 205229.782 265694.614
553\*030.82935\* N. 1183\*152.65760\* W. 206227.694 2640798.940
453\*03\*03.96995\* N. 1183\*18.29191\* W. 205769.082 2646766.439
453\*03\*03.8292\* N. 1183\*1224.60142\* W. 205868.35 2653\*141.011
453\*03\*03.8292\* N. 1183\*14\*40,12957\* W. 198084.023 263\*340.011
4525\*45.0047\* N. 1184\*40\*12957\* W. 197499.272 2642917.654
4525\*25\*23.44527\* N. 1183\*4\*42,36067\* W. 197499.272 2642917.646 1°19'55.941" 1°13'17.691" 0.999902940 0.999932392 -19 746 403 025 -19.746 -18.455 -18.905 -18.729 -18.405 -18.004 -18.338 -18.018 1'23'49.155" 1'14'25.957" 1'16'40.733" 1'19'55.309" 0.999922822 0.999911296 0.999912130 0.999911582 474.143 490.220 508.949 563.298 544.893 1140.184 918.000 1082.025 1256.116 1158.188 936.338 1100.043 1273.797 1'23'23.590" 1'14'41.964" 1'17'43.486" 1'21'45.893" 0.999911534 OF AGAICULT 9503 N.F. MC KAY 1995 (SECTION 1, T. 1 S., R. 33 E.) 9027 BIRCH 1916 (SECTION 12, T. 2 S., R. 33 E.) N. 85\*36\*21\*\* S. 89'06'28" W. 5985.092 (m) (m) 9502 6375.521 (m) SET A 5/8" BY 36" REBAR, WITH A 3 1/4" ALUMINUM CAP, FLUSH WITH THE GROUND, MARKED AS SHOWN. FOUND A 3 1/4" BRASS CAP SET IN CONCRETE FLUSH WITH THE GROUND, MARKED AS SHOWN. N F MCKAY  $\nabla$ Δ 1916 1995 MOULATION STA THEST SERVICE SL OF AGARCULT G & GEODETIC 9101 PENDLETON 1983 (SECTION 11, T. 2 N., R. 32 E.) ANDERSON 1995 (SECTION 3, T. 1 S., R. 34 E.) GPS ANDERSON SET A 5/8" BY 24" REBAR, WITH A 3 1/4" ALUMINUM CAP, FLUSH WITH THE GROUND, MARKED AS SHOWN. FOUND A 3 1/4" BRASS CAP SET IN CONCRETE PROJECTING 2" OUT OF THE GROUND, MARKED PENDLETON  $\triangle$ 1995 1963 THE ST SERVICE GPS GPS ROCKY TURR N. 84°00'54" W. 9506 5608.013 (m) & GEODETIC 9198 BIG HILL 1916 (SECTION 2, T. 1 N., R. 34 E.) 9505 ROCKY RIDGE 1995 (SECTION 31, T. 1 S., R. 33 E.) 85°58'28" E FOUND A 3 1/2" BRASS CAP SET IN CONCRETE FLUSH WITH THE GROUND, MARKED AS SHOWN. SET A 5/8" BY 7" REBAR, WITH A 3 1/4" ALUMINUM CAP, IN CONCRETE FLUSH WITH THE GROUND, MARKED AS SHOWN. % A F 1995 TERVICE SEA GRICULTURE REGISTERED 9501 FENCE 1995 (SECTION 1, T. 1 S., R. 32 E.) 9506 FORTH 1995 (SECTION 34, T. 1 S., R. 33 E.) 9027 PROFESSIONAL FENCE (O) LAND SURVEYOR SET IN THE CENTER TOP OF A WOOD FENCE POST CORNER, A 5/8" THREAD BY 12" LONG BOLT, WITH TWO WASHERS, A 2 1/2" FLASHER AND A NUT, MARKED AS SHOWN. SET IN THE CENTER OF A DIRT ROAD, A 5/8" BY 17" REBAR, WITH A 3 1/4" ALUMINUM CAP, FLUSH WITH THE GROUND, MARKED AS SHOWN. TOPEST SERVICE **LEGEND** OREGON JULY 16, 1987 GF AGAPTULTURE PS CR DAVID A. SCHLAICH 9502 BIN 1995 (SECTION 5, T. 1 S., R. 33 E.) 9507 BASSEY CR. 1995 (SECTION 5, T. 2 S., R. 34 E.) EXISTING GPS CONTROL POINT RENEWS 06/30/96 THIS POINT WAS ESTABLISHED AT THE CENTER OF AN OLD 16' DIAMETER GRAIN BIN FOUNDATION LOCATED WEST OF SPRING HOLLOW ROAD, APPROXIMATELLY 0.1 MILES NORTHWESTERLY OF THE JUNCTION OF SPRING HOLLOW AND NC RAY CREEK ROADS. SET A 5/8" BY 24" REBAR, WITH A 3 1/4" ALUMINUM CAP, FLUSH WITH THE GROUND, MARKED AS SHOWN. A NEW GPS CONTROL POINT REVIEWED BY (m) METERS 11/16/95 Jay lord SCALE: 1 INCH = 3000 METERS I, DAVID A. SCHLAICH, A REGISTERED LAND SURVEYOR IN THE STATE OF OREGON, HEREBY CERTIFY THAT THIS PLAT AND THE NOTES HEREON ARE A TRUE AND CORRECT REPRESENTATION OF A GPS CONTROL SURVEY I CONDUCTED IN JUNE THROUGH SETTING 1995, AT THE REQUEST OF THE UMATILLA NATIONAL FOREST, IN ACCORDANCE WITH THE STATUTES OF THE STATE OF OREGON. I CERTIFY THAT THIS SURVEY WAS PERFORMED AT THE REQUEST OF THE UNATILLA NATIONAL FOREST SUPERVISOR annn 18000 Umatilla County Surveyor DAVID A. SCHLAICH —— RLS 2308 UMATILLA NATIONAL FOREST 2517 S.W. HALEY AVENUE PENDLETON, CREGON 97801 PHONE: (541) 278—3747 Data 1/-95 SCALE IN METERS SCALE IN FEET DATE STEMATI 3 d'a Ly KK 1 METER = 3.28084 FEET SHEET 1 OF 1 No. 95-205-8