

GEODETIC CONTROL
SURVEY
FOR
FEDERAL HIGHWAY
ADMINISTRATION

CASCADE LAKES
HIGHWAY

DCMC # 4

FILED

DATE 8-5-92
DESCHUTES COUNTY SURVEYOR

BY *Michael Cole*

DEA

DAVID EVANS AND ASSOCIATES, INC
709 NW WALL STREET, SUITE 102
BEND, OREGON 97701 (503)389-76

NARRATIVE

GPS SURVEY

THIS WORK WAS PERFORMED FOR THE FEDERAL HIGHWAY ADMINISTRATION. THE GEODETIC CONTROL PROVIDED BY THIS SURVEY WAS TO EXPEDITE THE SURVEY CONTROL FOR AN AERIAL PHOTOGRAMMETRIC MAPPING PROJECT OF THE CASCADE LAKES HIGHWAY PROJECT NEAR CRESCENT LAKE OREGON.

FIELD GLOBAL POSITIONING SYSTEM (GPS) OBSERVATIONS TOOK PLACE FROM NOVEMBER 6, 1991 (JULIAN DAY 310) TO NOVEMBER 8, 1991 (JULIAN DAY 312). FOUR TRIMBLE MODEL 4000 RECEIVERS WERE USED TO COLLECT THE FIELD DATA AND POST PROCESSING WAS ACCOMPLISHED WITH A TOSHIBA "T5200" PORTABLE COMPUTER.

NGS "CREST 1990", "WICKIUP 1990" AND "CRESCENT 1953" WERE USED FOR LATITUDE AND LONGITUDE CONSTRAINTS. STATIONS "CREST 1990" AND "WICKIUP 1990" WERE PART OF THE HIGH PRECISION NETWORK (HPN) COMPLETED BY NGS IN 1991. A THREE WIRE LEVEL LOOP WAS RUN FROM NGS BM 1 (EL. = 1455.498 METERS) TO GPS STATION "SIMAX 1991", USGS BM X-1 (EL. = 1357.053 METERS) TO USGS STATION "CRESCENT 1953" AND FROM USGS BM T363 (EL. = 1350.986 METERS) TO GPS STATION "DES050 1990" WHICH WERE HELD AS VERTICAL CONSTRAINTS FOR THIS PROJECT.

<u>STATION</u>	<u>LATITUDE</u>	<u>LONGITUDE</u>	<u>ELEV. METERS</u>
"CREST 1990"	43°31'48.72590"N	121°56'37.59576"W	
"WICKIUP 1990"	43°40'56.59981"N	121°41'15.57620"W	
"CRESCENT 1953"	43°27'44.94650"N	121°41'50.30478"W	1357.147
"SIMAX 1991"			1455.310
"DES050 1990"			1350.411

THE FINAL CONSTRAINED NAD 83/91 ADJUSTMENT YIELDED 2 SIGMA CONFIDENCE LEVELS (95%) LESS THAN 3.5 CENTIMETERS (0.11 FEET) HORIZONTALLY AND 4.8 CENTIMETERS (0.16 FEET) VERTICALLY.

THIS PROJECT RELATES TO THE OREGON COORDINATE SYSTEM OF 1983, SOUTH ZONE. APPLICATION OF THE APPROPRIATE SEA LEVEL AND GRID FACTORS ARE REQUIRED TO RESULT IN SATISFACTORY CORRELATION OF THE OREGON STATE PLANE (SOUTH ZONE) VALUES SHOWN IN THIS REPORT.

GROUND SURVEY

GROUND TRAVERSES WERE RUN WITH WILD THEOMATS, DISTOMATS, AND DATA COLLECTORS CARRYING HORIZONTAL AND VERTICAL CONTROL. PHOTO POINTS AND THE REQUESTED SECTION AND QUARTER SECTION CORNER MONUMENTS WERE TIED IN THIS TRAVERSE.

THE MAIN GROUND CONTROL TRAVERSE FOLLOWS SOUTH CENTURY DRIVE FROM DAVIS LAKE TO KLAMATH COUNTY ROAD NO. 61. IT THEN FOLLOWS SAID COUNTY ROAD TO ITS INTERSECTION WITH OREGON STATE HIGHWAY 58. GROUND CONTROL TRAVERSES WERE ADJUSTED HOLDING THE GPS CONTROL NETWORK POINTS AS FIXED. A LEAST SQUARES 3D NETWORK ADJUSTMENT WAS PERFORMED USING STARNET SOFTWARE.

TRAVERSE CONTROL POINTS ARE 1/2" IRON RODS WITH PLASTIC CAPS MARKED "FHWA CP" SET ON THE HIGHWAY SHOULDER AND REFERENCED WITH FHWA STANDARD TAGS. RAMSET AND PK NAILS WERE USED FOR TRAVERSE CONTROL POINTS IN PAVED AREAS. THESE CONTROL POINTS WERE SET AT INTERVALS OF UP TO 1000 FEET. GROUND CONTROL TRAVERSES WERE COMPLETED ON JANUARY 20, 1992.

*CASCADE LAKES
HIGHWAY*

*STATE PLANE
COORDINATES
NAD 83
(1991 ADJUSTMENT)*

David Evans and Associates, Inc.
 415 118th Avenue S.E.
 Bellevue, Washington 98005-3553
 (206) 455-3571

Trimble Navigation Ltd., State Plane Conversion Utility

Datum: NAD83 - ELEVATION IN U.S. SURVEY FEET Zone : 3602 Oregon South
 State Plane in: International Feet

NAME	LATITUDE	LONGITUDE	NORTHING	EASTING	ELEVATION	GROUND	SCALE FACTOR	CONVERGENCE
					OF MON.	ELEV.		
0003	43:29'30.26410" N	121:54'59.93902" W	668321.097	4545361.482	4670.627	4669.5	0.999910483	-0:58'09.109"
0006	43:29'42.17366" N	121:54'00.14818" W	669452.584	4549788.195	5083.264	5083.3	0.999910810	-0:57'28.204"
0007	43:29'04.41537" N	121:52'53.29184" W	665548.500	4554652.170	4863.035	4863.0	0.999909785	-0:56'42.464"
0013	43:29'57.50025" N	121:51'04.19353" W	670791.089	4562790.386	4524.866	4524.8	0.999911236	-0:55'27.825"
0030	43:29'03.63732" N	121:54'12.79270" W	665567.182	4548790.965	4632.881	4631.7	0.999909764	-0:57'36.854"
0031	43:31'46.83477" N	121:51'41.37833" W	681903.479	4560220.145	4627.074	4626.3	0.999914433	-0:55'53.265"
0032	43:35'03.29093" N	121:50'54.53509" W	701735.335	4563990.611	4443.790	4443.8	0.999920887	-0:55'21.217"
0033	43:35'26.59426" N	121:49'56.74995" W	704026.342	4568280.481	4507.711	4506.9	0.999921713	-0:54'41.683"
0095	43:30'35.64993" N	121:58'05.23600" W	675175.205	4531821.318	4774.630	4774.3	0.999912319	-1:00'15.890"
0096	43:35'32.77786" N	121:53'24.57458" W	704900.910	4552999.017	4430.473	4430.4	0.999921934	-0:57'03.866"
0097	43:40'56.59982" N	121:41'15.57622" W	736858.278	4607103.282	4353.528	4353.5	0.999934784	-0:48'45.124"
0098	43:27'44.94650" N	121:41'50.30478" W	656751.214	4603405.849	4452.573	4452.6	0.999907736	-0:49'08.883"
0099	43:31'48.72591" N	121:56'37.59574" W	682460.359	4538405.919	4766.838	4766.1	0.999914491	-0:59'15.921"

DAVID EVANS AND ASSOCIATES, INC.
 709 NW WALL STREET, SUITE 102,
 BEND, OREGON 97701
 (503) 389-7614

Date: 01-29-92
 Time: 9:56:07
 Page: 1

Coordinate File: FHAX6SP.CRD
 List of Coordinate Points

Point ID	NORTH	EAST	ELEV	Descriptor
89	701884.973	4564279.870	4448.562	P27 PK NAIL
92	671407.001	4562352.407	4534.156	1/4 COR 11/14
93	670796.803	4560589.692	4621.227	P12 1/2" IR FHWA
94	668503.162	4556049.751	4799.305	P9 1/2" IR FHWA
95	667556.546	4554292.897	4779.954	P8 PK NAIL
97	666690.214	4547371.100	4643.759	P1 1/2" IR FHWA
98	667751.543	4546426.711	4666.750	P2 1/2" IR FHWA
99	665567.182	4548790.965	4632.881	GPS CRESCENT CREEK AZ
100	668321.097	4545361.482	4670.627	GPS CRESCENT CREEK
CP1	667641.287	4546233.709	4653.769	1/2" IR FHWA
CP2	667564.642	4546711.434	4668.644	1/2" IR FHWA
CP3	667387.599	4547217.242	4682.754	P4 1/2" IR FHWA
CP4	667407.343	4548037.876	4703.967	1/2" IR FHWA
CP5	667426.516	4548850.215	4724.835	1/2" IR FHWA
CP6	667447.545	4549660.963	4739.416	1/2" IR FHWA
CP7	667407.694	4550468.463	4759.482	1/2" IR FHWA
CP8	667275.293	4551485.461	4760.820	1/2" IR FHWA
CP9	667467.669	4552307.941	4758.094	1/2" IR FHWA
CP10	667502.445	4553382.639	4768.643	P0 NAIL W/SHINER
CP11	667530.273	4554219.063	4778.817	1/2" IR FHWA
CP12	667887.752	4555016.924	4789.942	1/2" IR FHWA
CP13	668308.440	4555701.500	4789.675	1/2" IR FHWA
CP14	668567.687	4556478.671	4798.809	1/2" IR FHWA
CP15	668821.193	4557248.124	4785.938	1/2" IR FHWA
CP16	669147.028	4557619.206	4759.131	1/2" IR FHWA
CP17	669847.702	4558026.183	4737.356	1/2" IR FHWA
CP18	670087.566	4558517.307	4718.622	1/2" IR FHWA
CP19	669999.397	4559329.729	4688.915	1/2" IR FHWA
CP20	670193.527	4559859.068	4663.147	1/2" IR FHWA
CP21	670765.509	4560434.968	4628.707	1/2" IR FHWA
CP22	670892.034	4560968.312	4598.580	1/2" IR FHWA
CP23	670838.957	4561866.950	4573.540	1/2" IR FHWA
CP24	670791.089	4562780.386	4524.866	P13 GPS BLACK ROCK
CP25	671295.736	4562482.893	4527.027	1/2" IR FHWA
CP26	671982.546	4562141.101	4544.669	P14 1/2" IR FHWA
CP27	672860.777	4561596.626	4530.931	P15 NAIL IN AC
CP28	673664.386	4561527.266	4527.971	1/2" IR FHWA
CP29	674326.282	4561525.756	4533.316	1/2" IR FHWA
CP30	675106.402	4561524.829	4527.826	1/2" IR FHWA
CP31	675922.831	4561526.857	4546.312	1/2" IR FHWA
CP32	676726.353	4561524.736	4548.329	1/2" IR FHWA
CP33	677351.190	4561649.943	4551.125	P17 1/2" IR FHWA
CP34	677847.417	4561524.675	4567.343	1/2" IR FHWA
CP35	678772.841	4561420.035	4587.210	1/2" IR FHWA
CP36	679541.477	4561299.602	4591.996	1/2" IR FHWA
CP37	680325.273	4561174.810	4604.875	1/2" IR FHWA
CP38	681007.606	4560822.993	4613.783	1/2" IR FHWA
CP39	681903.479	4560220.145	4627.074	GPS DELL
CP40	682583.038	4559839.048	4648.663	1/2" IR FHWA
CP41	683200.701	4559420.143	4663.084	1/2" IR FHWA
CP42	683839.061	4559203.467	4655.554	P18 1/2" IR FHWA
CP43	684604.225	4559243.930	4645.992	1/2" IR FHWA
CP44	685430.311	4559453.183	4649.605	1/2" IR FHWA
CP45	686183.409	4559678.624	4687.125	P19 NAIL IN AC
CP46	686843.183	4559873.754	4716.476	1/2" IR FHWA
CP47	687463.502	4560002.628	4743.565	P21 NAIL IN AC
CP48	688208.786	4560264.227	4739.950	P23 NAIL IN AC
CP49	688772.447	4560607.283	4721.743	1/2" IR FHWA
CP50	689350.795	4560938.592	4714.832	1/2" IR FHWA
CP51	689976.130	4561300.170	4696.569	1/2" IR FHWA
CP52	690487.306	4561496.645	4683.146	1/2" IR FHWA
CP53	691262.897	4561502.091	4653.961	1/2" IR FHWA
CP54	692028.054	4561506.007	4632.630	1/2" IR FHWA
CP55	692723.803	4561510.601	4628.770	1/2" IR FHWA
CP56	693515.394	4561514.495	4625.906	1/2" IR FHWA
CP57	694280.612	4561521.109	4615.348	1/2" IR FHWA

CP58	695072.329	4561546.502	4592.329	1/2" IR FHWA
CP59	695846.379	4561571.368	4564.692	1/2" IR FHWA
CP60	696625.981	4561599.197	4537.044	1/2" IR FHWA
CP61	697501.252	4561669.984	4520.684	1/2" IR FHWA
CP62	698217.027	4562073.248	4497.226	1/2" IR FHWA
CP63	698980.744	4562058.996	4503.835	1/2" IR FHWA
CP64	699700.366	4562495.974	4487.297	1/2" IR FHWA
CP65	700383.538	4563004.265	4477.583	1/2" IR FHWA
CP66	701129.543	4563466.591	4454.443	1/2" IR FHWA
CP67	701735.335	4563990.611	4443.790	GPS DAVIS
CP68	704026.342	4568280.481	4507.711	GPS DAVIS AZ
MAX1	668062.714	4545723.868	4660.698	1/2" IR FHWA
MAX3	668072.397	4545720.453	4660.930	1/2" IR FHWA
P5	668461.820	4546014.590	4698.092	P5 1/2" IR FHWA
P6	669452.584	4549788.195	5082.264	P6 GPS TIED 1/2" IR FHWA
P7	665548.500	4554652.170	4863.035	P7 GPS TIED 1/2" IR FHWA
P16	670705.656	4563851.661	4508.098	P16 NAIL IN AC
P20	686794.731	4561422.635	4690.139	P20 1/2" IR FHWA
P22	687137.970	4558642.888	4754.990	P22 1/2" IR FHWA
P25	698093.080	4561247.413	4433.083	P25 1/2" IR FHWA
P26	701338.615	4563630.761	4451.671	P26 NAIL IN AC
P28	702154.346	4564181.677	4427.246	P28 1/2" IR FHWA
P29	702190.556	4562641.374	4399.440	P29 1/2" IR FHWA
SC1	670717.293	4563998.930	4504.708	1/2" IR FHWA
SC2	670542.116	4564702.541	4494.378	1/2" IR FHWA
SC3	671367.549	4564995.411	4521.685	SEC COR 11 12 13 14
SC4	670538.523	4564694.271	4494.348	1/2" IR FHWA
SC5	670716.184	4563996.785	4504.439	1/2" IR FHWA
SD1	701764.582	4563921.747	4433.963	1/2" IR FHWA
SE2	702366.775	4563749.481	4403.898	1/2" IR FHWA
SE4	702361.131	4563750.504	4403.455	1/2" IR FHWA
SF2	702839.901	4564684.369	4400.453	1/2" IR FHWA
SF3	703188.046	4565163.472	4402.561	1/2" IR FHWA
SF4	702969.936	4565202.872	4411.528	SC 11, 12, 13, 14 5/8" IR
SF5	703019.916	4564963.034	4399.043	1/2" IR FHWA
SF6	702768.096	4564644.263	4402.388	1/2" IR FHWA
SG1	696921.310	4561591.994	4533.690	1/2" IR FHWA
SG2	697304.474	4561507.513	4509.889	1/2" IR FHWA
SG3	697574.876	4561318.114	4492.229	1/2" IR FHWA
SG4	697824.351	4561237.085	4477.604	1/2" IR FHWA
SG6	697829.496	4561239.843	4477.604	1/2" IR FHWA
SG8	697282.645	4561523.669	4512.528	1/2" IR FHWA
SH2	690666.480	4561758.418	4703.791	1/2" IR FHWA
SH3	690352.088	4561851.551	4718.836	1/2" IR FHWA
SH4	690156.788	4561954.511	4730.938	P24 1/2" FHWA
SH5	690345.868	4561859.058	4719.196	1/2" IR FHWA
SH6	690675.742	4561761.409	4703.793	1/2" IR FHWA
SI2	687549.677	4559562.358	4747.479	1/2" IR FHWA
SI3	687545.049	4559338.529	4747.963	1/2" IR FHWA
SI4	687162.556	4558821.233	4762.459	1/2" IR FHWA
SI6	687190.487	4558836.182	4762.560	1/2" IR FHWA
SI8	687565.081	4559583.548	4747.723	1/2" IR FHWA
SJ2	687297.530	4559807.687	4746.641	1/2" IR FHWA
SJ3	687218.639	4559672.873	4752.485	SEC COR 26 27 34 35
SJ4	687296.304	4559808.291	4746.665	1/2" IR FHWA
SK2	687267.895	4560024.386	4736.038	1/2" IR DEA CONTROL
SK3	686948.464	4560825.140	4683.683	1/2" IR DEA CONTROL
SK5	686944.913	4560823.304	4683.786	1/2" IR DEA CONTROL
SK6	687255.200	4560013.827	4736.841	1/2" IR DEA CONTROL
SL2	681885.563	4560054.992	4652.656	1/2" IR FHWA
SL3	681945.512	4559918.576	4667.427	CLOSE COR S2 S3 ON S35
SL4	681910.882	4559711.765	4684.892	1/2" IR FHWA
SL5	681945.666	4559564.142	4695.711	SOUTH SEC COR 34/35
SL6	681908.308	4559711.071	4685.080	1/2" IR FHWA
SL8	681859.994	4560055.534	4652.021	1/2" IR FHWA
SP1	678729.403	4561220.428	4600.215	1/2" IR FHWA
SP2	678301.732	4561075.297	4622.132	1/2" IR FHWA
SP3	677468.963	4560312.112	4684.590	1/2" IR FHWA
SP4	676984.284	4559955.209	4710.968	1/2" IR FHWA
SP5	676726.276	4559829.455	4725.791	SEC COR 2 3 10 11
SP6	676994.594	4559942.314	4715.663	1/2" IR FHWA
SP8	678303.464	4561070.829	4622.572	1/2" IR FHWA
SP9	678763.187	4561221.824	4603.138	1/2" IR DEA CONTROL
ST1	670377.598	4558388.707	4744.404	1/2" IR FHWA
ST2	670612.425	4557876.835	4794.783	1/2" IR FHWA
ST3	670566.987	4557560.905	4799.677	P11 1/2" IR FHWA
ST4	670432.316	4557303.393	4813.486	1/2" IR FHWA
ST5	670154.062	4557018.874	4838.682	1/2" IR FHWA
ST6	669949.477	4556485.502	4895.984	1/2" IR FHWA
ST7	669728.788	4556037.057	4937.379	1/2" IR FHWA

ST8	669496.592	4555347.119	4951.829	1/2" IR FHWA
ST9	669251.084	4554980.221	4972.783	1/2" IR FHWA
ST10	669078.167	4554643.180	4981.633	1/2" IR FHWA
ST11	668979.097	4554439.874	4978.895	P10 1/2" IR FHWA
ST12	668514.445	4554606.401	4894.583	1/2" IR FHWA

*CASCADE LAKES
HIGHWAY*

*MONUMENT
DESCRIPTIONS*

GPS STATION DATA SHEET

Please print all information.

Station Name: CRESCENT CREEK (P-3)

Quad Name: CRESCENT

State/County: OR 1 KLAMATH

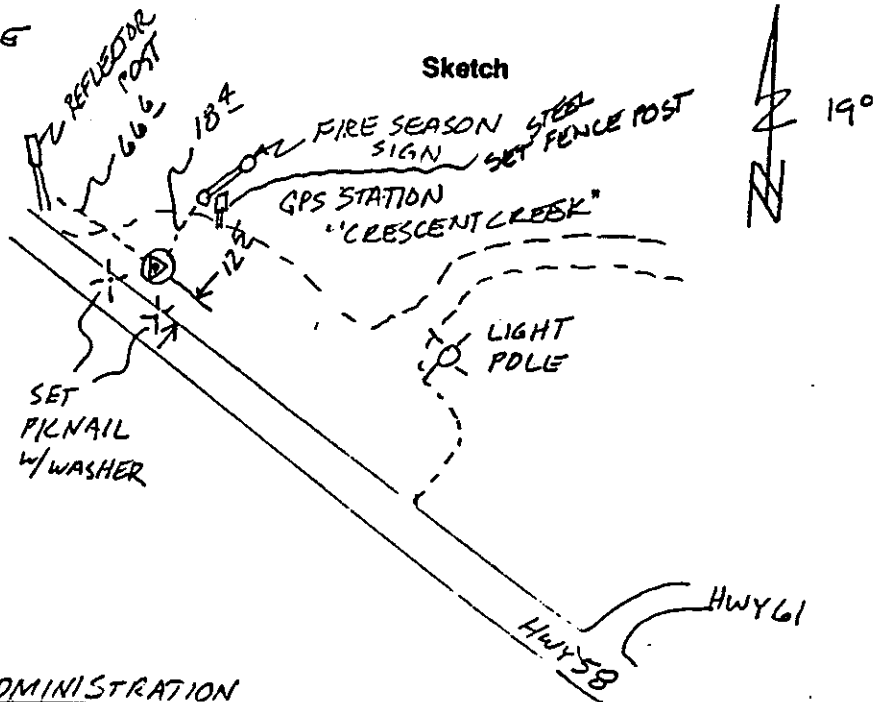
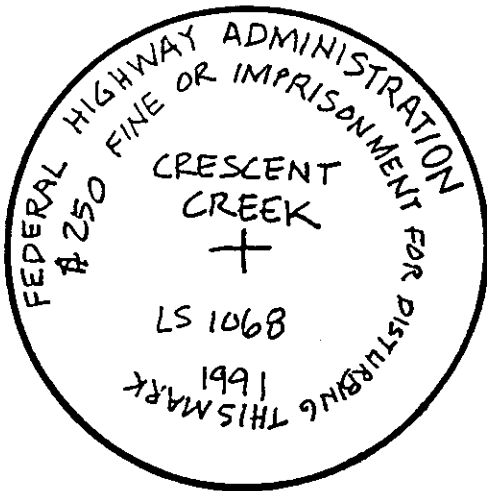
Year Established: 1991

SYKES

Year Recovered: _____

Last Name

SET 3 1/2" BRASS ^{DISK} GAIN IN CONC
1" BELOW SURFACE
Monument Stamped



Agency: FEDERAL HIGHWAY ADMINISTRATION
FHAX0006

Directions: (How to reach the location. Person to contact.)

FROM THE INTERSECTION OF HWY 58 AND HWY 61, GO NW 0.20 MILES ON HWY
58 TO STATION ON RT IN NW END OF TURNOUT. STATION IS 12' NE OF EDGE
PAVEMENT, 18' S31°W FROM CLOSEST POST ON FIRE SEASON SIGN, 66' SE OF
REFLECTOR POST, SET PK NAIL W/WASHER IN FOG STRIPE 20' WEST, SET PK
NAIL W/WASHER IN FOG STRIPE 22' SOUTH. STATION IS 200' NW OF LIGHT
POLE. SET STEEL FENCE POST FOR WITNESS POST N45°E 19'

Murray P. Sykes

10-2-91

GPS STATION DATA SHEET

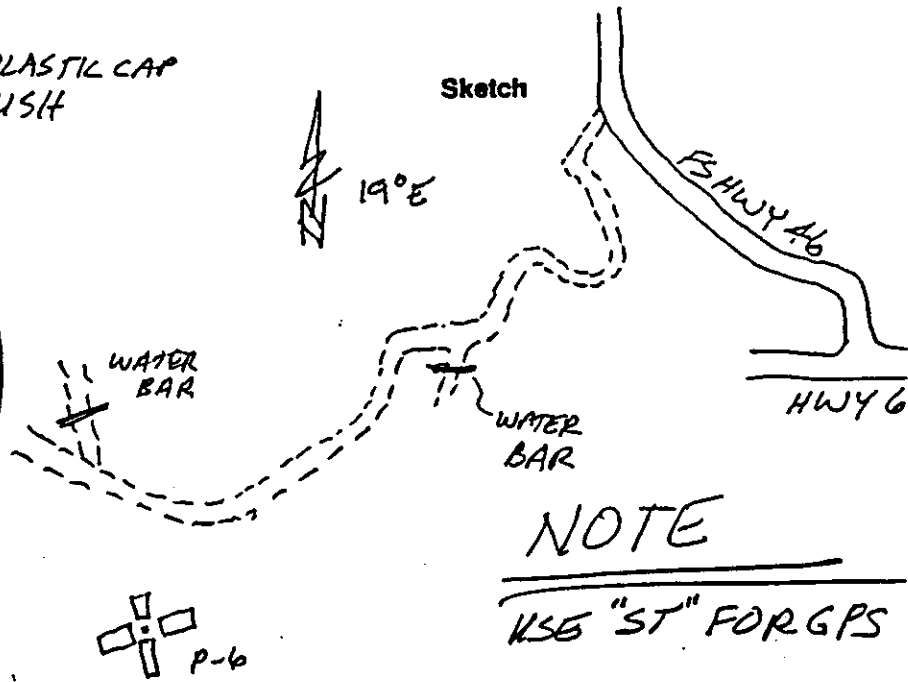
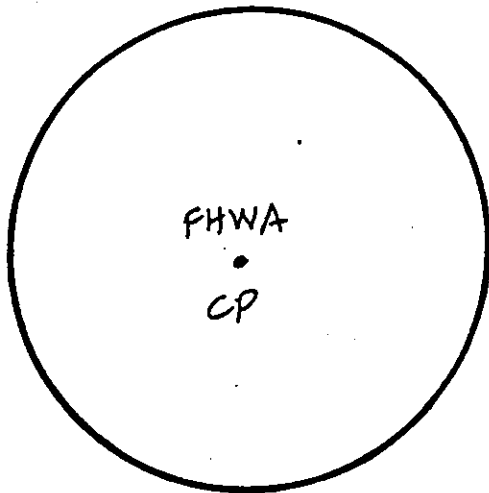
Please print all information.

Station Name: P-6 Quad Name: CRESCENT

State/County: OR 1 KLAMATH Year Established: 1991

SYKES Year Recovered: _____
Last Name

SET 1/2" x 2 1/2" IR w/YELLOW PLASTIC CAP
Monument Stamped FLUSH



NOTE
USE "ST" FOR GPS

Agency: FEDERAL HIGHWAY ADMINISTRATION
FIAX0006

Directions: (How to reach the location. Person to contact.)

FROM THE INT OF HWY 61 & FS HWY 46 GO 0.45 MILES NORTH ON
FS HWY 46, TURN LT AND GO 0.95 MILES TO "Y" (RD TO LT HAS WATER BAR
GO TO THE RT AND GO 1.65 MILES TO A ROAD TO THE RT w/A WATER BAR.
PARK AND GO S 4° W ± 425' INTO THE CLEARCUT. S 46° E TO ODELL MTN
LOOKOUT TOWER
SUITABLE FOR GPS

Annam P. Sykes

10-1-91

GPS STATION DATA SHEET

Please print all information.

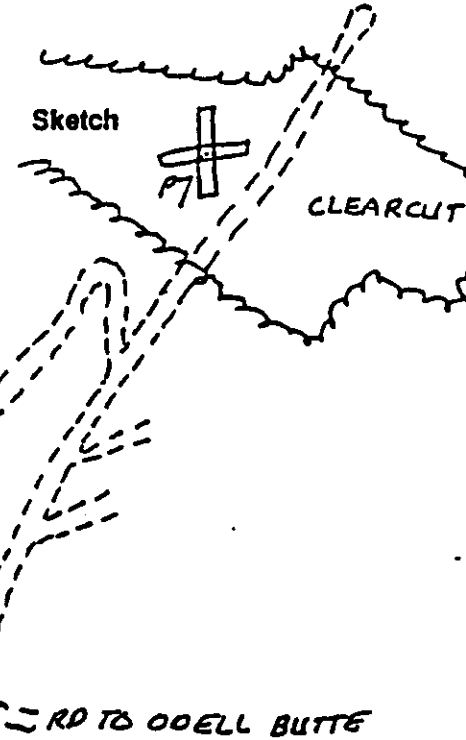
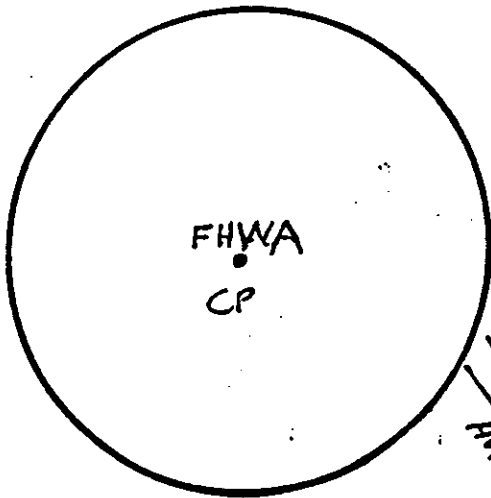
Station Name: P7 Quad Name: CRESCENT

State/County: OR / KLAMATH Year Established: 1991

SYKES Year Recovered: _____

Last Name

SET 1/2" x 24" IR w/ YELLOW PLASTIC CAP
Monument Stamped FLUSH



Agency: FEDERAL HIGHWAY ADMINISTRATION
FHAX0006

Directions: (How to reach the location. Person to contact.)

FROM THE INTERSECTION OF HIGHWAY 58 AND HIGHWAY 61, GO 2.75
MILES SOUTHEAST ON HIGHWAY 58 TO ODELL BUTTE RD (FS RD 5815), TURN L
AND GO 0.1 MILES TO FS RD 5815-050, TURN LT AND GO 0.2 MILES TO A "
TURN LT AND GO 0.4 MILES TO A "Y", TURN LT AND GO 0.5 MILES TO A
"Y", TURN RT & GO 0.3 MILES TO THE STATION ON LT, IN A SMALL OPEN AR
STATION IS 15' FEET NW OF & GRAVEL RD AND 150' NE OF EDGE CLEAR.

GPS STATION DATA SHEET

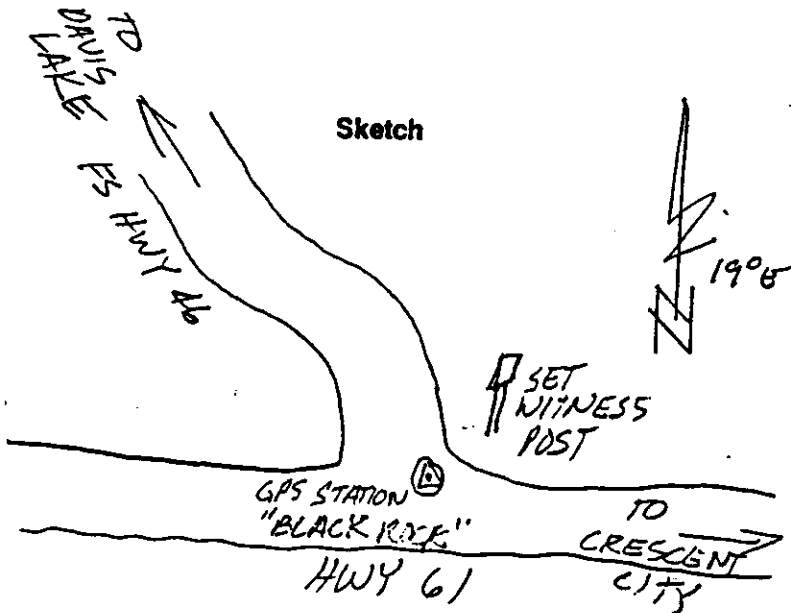
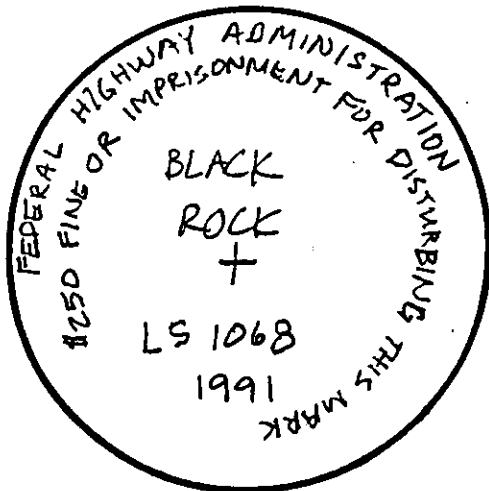
Please print all information.

Station Name: "BLACK ROCK" (P-13) Quad Name: CRESCENT

State/County: OR / KLAMATH Year Established: 1991

SYKES Last Name Year Recovered:

SET 3 1/2" BRASS CAP IN CONC 0.25' BELOW SURFACE Monument Stamped



Agency: FEDERAL HIGHWAY ADMINISTRATION FHAX0006

Directions: (How to reach the location. Person to contact.)

STATION IS AT THE INTERSECTION OF HWY 61 AND FOREST SERVICE HWY 46. STATION IS 22⁸ EAST OF THE E FOREST SERVICE HWY 46 AND 21⁷ NORTH OF THE E OF HWY 61. SET STEEL FENCE POST FOR WITNESS POST N51°E 13⁴

James P. Sykes

10-2-91

GPS STATION DATA SHEET

Please print all information.

Station Name: CRESCENT CREEK AZ MARK

Quad Name: CRESCENT

State/County: OR / KLAMATH

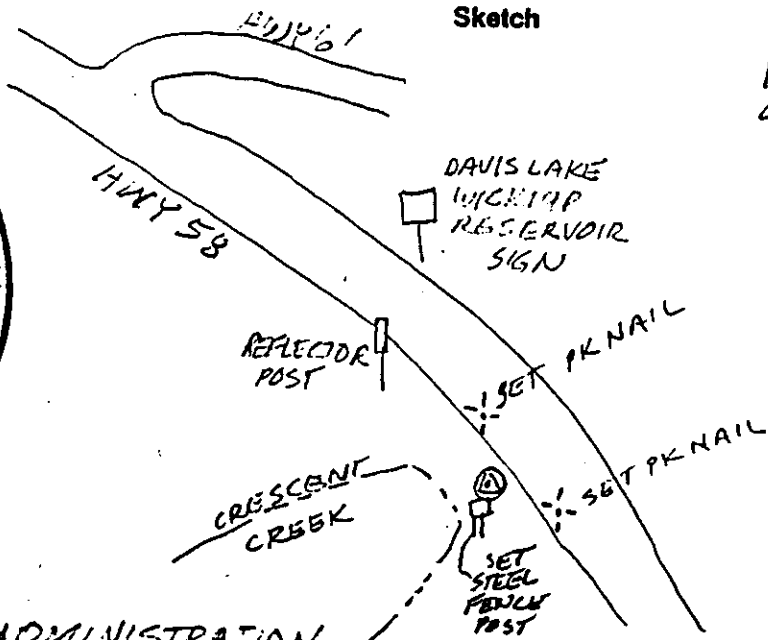
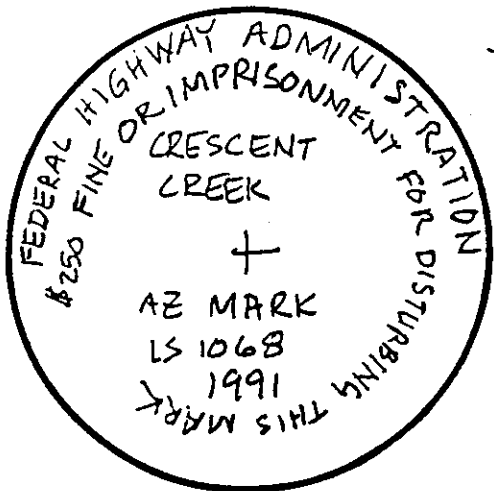
Year Established: 1991

SYKES

Last Name

Year Recovered: _____

SET 3 1/2" BRASS DISC IN CONC.
1 1/2" BELOW SURFACE
Monument Stamped



Agency: FEDERAL HIGHWAY ADMINISTRATION
FHAX0006

Directions: (How to reach the location. Person to contact.)

FROM INTERSECTION OF HWY 61 & HWY 58 GO 0.60 MILES SOUTHEAST
ON HWY 58 TO STATION ON RT. STATION IS ± 315' SE OF DAVIS LAKE
WICKIUP RESERVOIR SIGN. AND 2' SW OF THE EDGE PAVEMENT.
REFLECTOR POST N51°W 69^B, SET PK NAIL w/WASHER IN FOG STRIPE 6⁹⁵
NORTH, SET PK NAIL w/WASHER IN FOG STRIPE 7⁰¹ EAST. SET 5' STEEL
FENCE POST FOR WITNESS POST S45°W 18⁶

Andrew P. Smith

12-7-01

GPS STATION DATA SHEET

Please print all information.

Station Name: DAVIS

Quad Name: CRESCENT

State/County: OR 1 KLAMATH

Year Established: 1991

SYKES

Year Recovered: _____

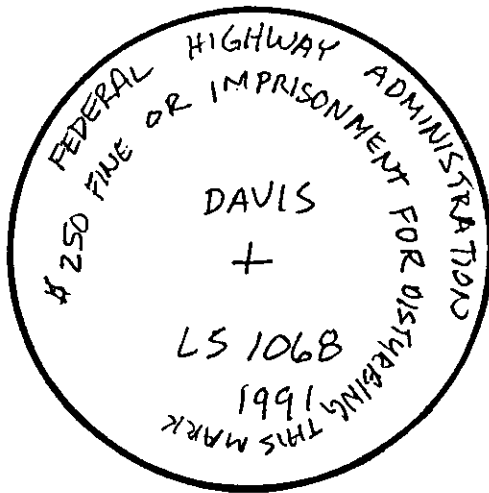
Last Name

SET 3 1/2" BRASS DISC IN CONC.
FLUSH
Monument Stamped

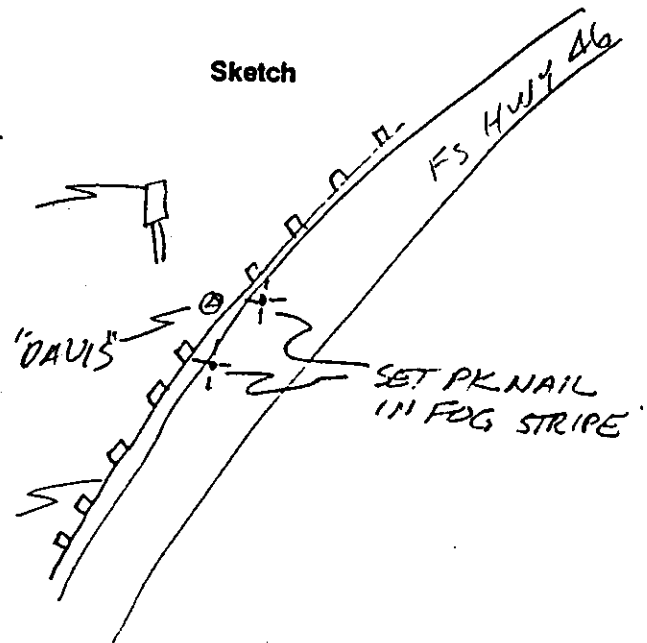
19°E
DECL



Sketch



SET
STEEL
FENCE
POST



Agency: FEDERAL HIGHWAY ADMINISTRATION
FHAX0006

Directions: (How to reach the location. Person to contact.)

FROM INT HWY 61 & FS HWY 46 GO NORTH 7.0 MILES TO STATION 4³
NORTH OF EDGE PAVEMENT. SET PK NAIL IN FOG STRIPE 12' EAST &
11' SOUTH. SET STEEL FENCE POST FOR WITNESS POST N43°W 6³
STATION IS 170' SW OF NE END GUARD RAIL.

August P. ...
Signature

10-3-91
Date

GPS STATION DATA SHEET

Please print all information.

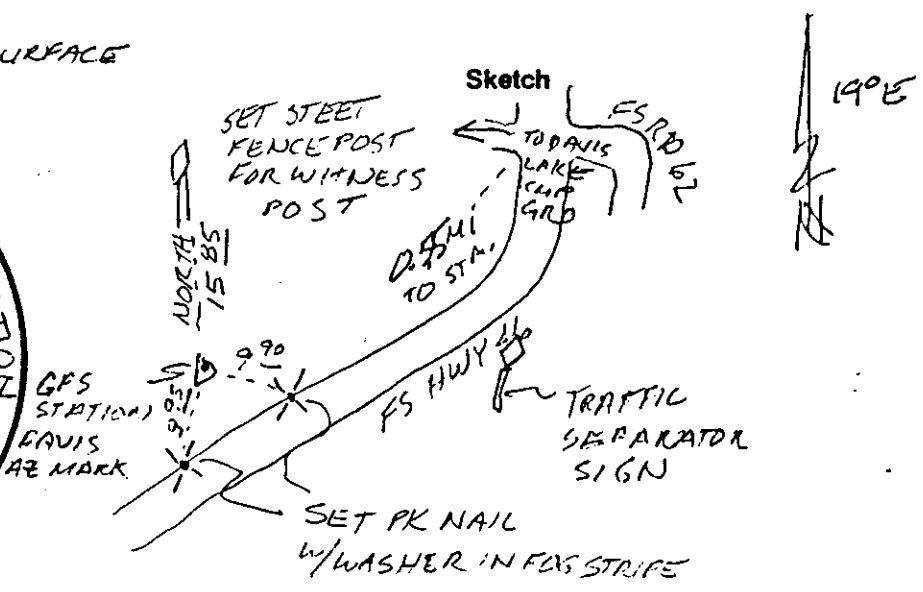
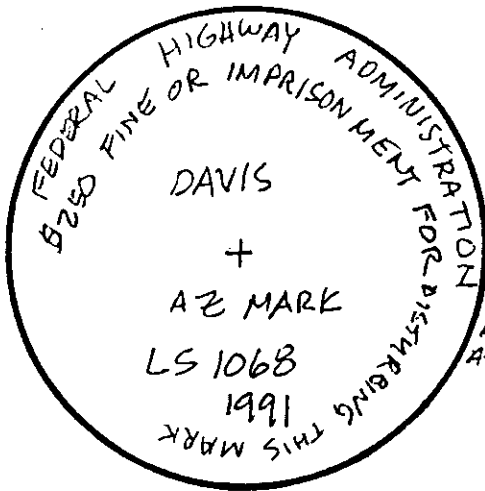
Station Name: DAVIS AZ MARK Quad Name: CRESCENT

State/County: OR 1 KLAMATH Year Established: 1991

SYKES Year Recovered: _____

Last Name

SET 3 1/2" BRASS ^{DISK} IN CONC
0' BELOW SURFACE
Monument Stamped



Agency: FEDERAL HIGHWAY ADMINISTRATION
FHAX0006

Directions: (How to reach the location. Person to contact.)
FROM INT OF HWY 61 & FS HWY 46, GO NORTH 6.1 MILES TO STATION
ON LT. STATION IS 15' NORTH OF EDGE PAVEMENT, 185' SW OF
TRAFFIC SEPARATOR SIGN. SET PK NAIL W/ WASHER IN FOG 90° EAST
8 95' SOUTH. SET STEEL FENCE POST FOR WITNESSES POST 15 85' NORTH.
STATION IS 0.55 MI SW OF TURNOFF TO DAVIS LAKE CAMPGROUND.

Gregory P. Sykes Signature Date 10-3-91

GPS STATION DATA SHEET

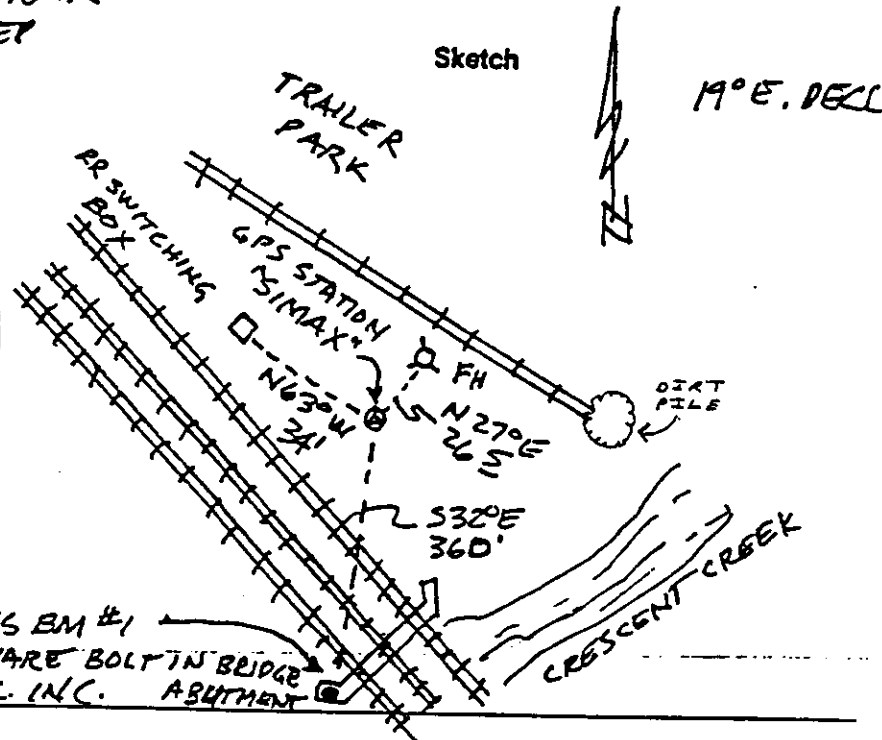
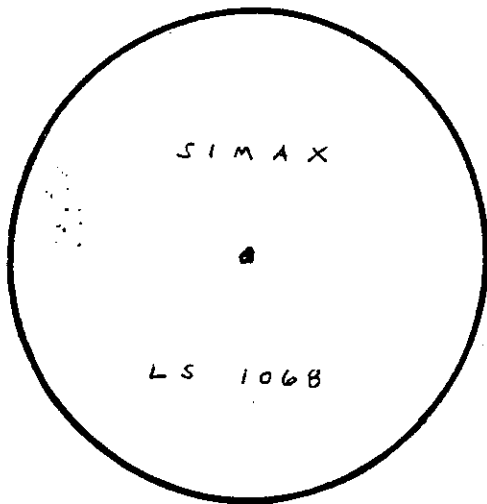
Please print all information.

Station Name: SIMAX Quad Name: CRESCENT

State/County: OR 1 KLAMATH Year Established: 1991

SYKES Year Recovered: N/A
Last Name

SET 1 1/2" ALUM CAP ON 5/8" IR
0 5' DEEP
Monument Stamped



Agency: DAVID EVANS & ASSOC. INC. PHAX0006
NGS BM #1
1" SQUARE BOLT IN BRIDGE ABUTMENT

Directions: (How to reach the location. Person to contact.)
(WITH HWY 58 @ APPROX. MP 69),
FROM CRESCENT LAKE JUNCTION GO SOUTHWEST ON HIGHWAY 60
1.85 MILES TO SP. RR CROSSING, TURN LT ON DIRT RD ON NE SIDE
OF RR TRACKS & FOLLOW TRACK 0.3 MILES TO STATION.

Gregory P. Soder

11-8-91

GPS STATION DATA SHEET

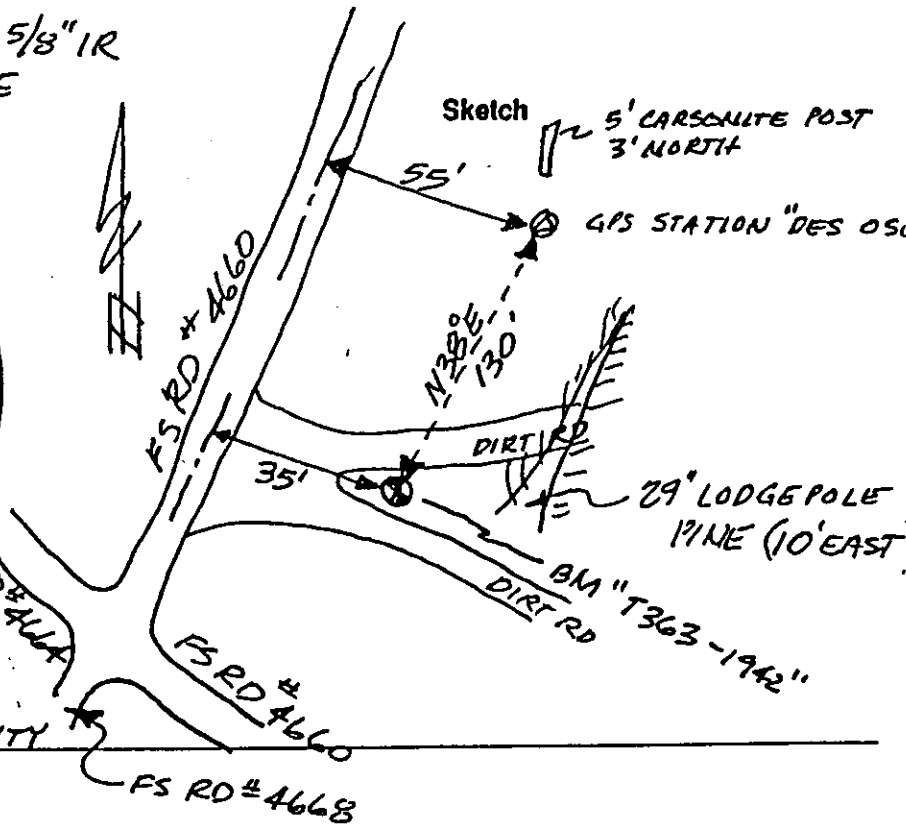
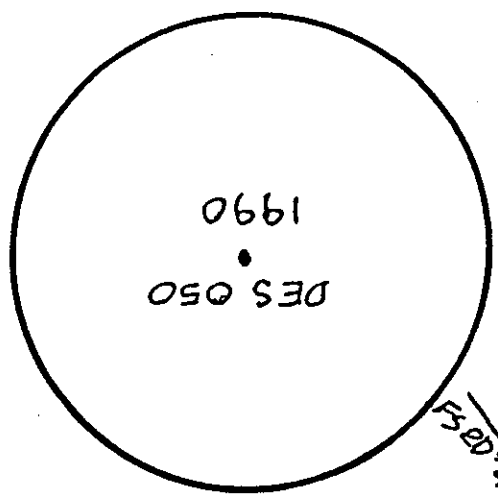
Please print all information.

Station Name: DES 050 Quad Name: CRESCENT

State/County: OR / KLAMATH Year Established: 1990

SYKES Last Name Year Recovered: 1991

2" ALUMINUM CAP ON 5/8" IR
0' BELOW SURFACE
Monument Stamped



Agency: DES CHUTES COUNTY
FHAX0006

Directions: (How to reach the location. Person to contact.)

FROM THE INTERSECTION OF HIGHWAY 61 & FOREST SERVICE HIGHWAY #46, GO
NORTH 3.25 MILES TO FOREST SERVICE RD # 4660, TURN LT & GO 3.8 MILES
TO 4-WAY INTERSECTION, TURN RT ONTO FOREST SERVICE RD # 4660 AND
GO 0.2 MILES TO STATION ON RT.

GPS STATION DATA SHEET

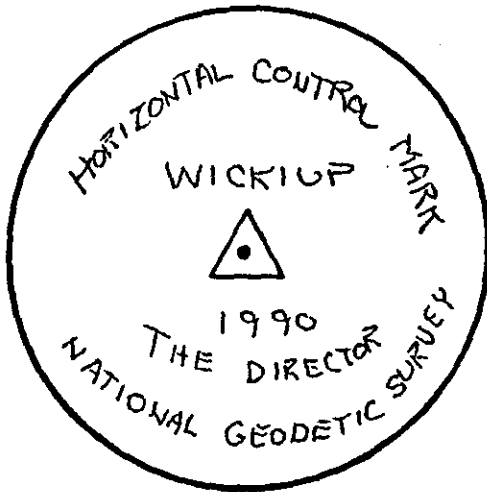
Please print all information.

Station Name: WICKIUP Quad Name: CRESCENT

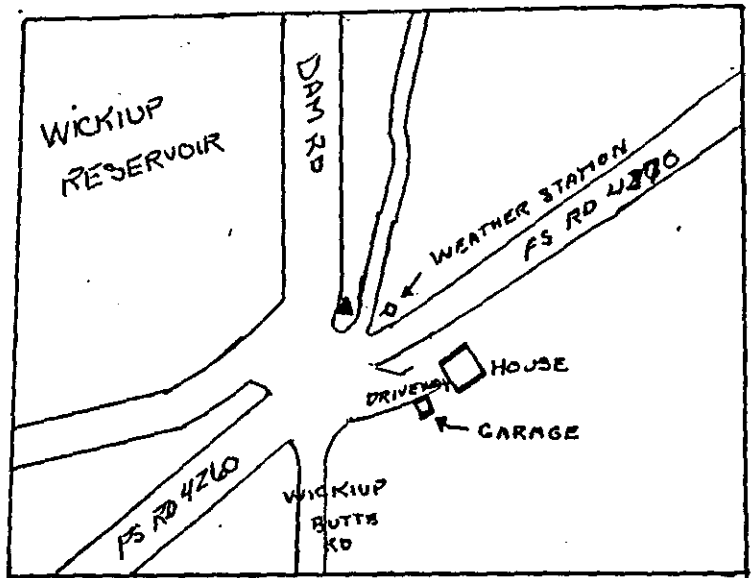
State/County: OR. / DESCHUTES Year Established: 90

WILLIAMS Year Recovered: 91
Last Name

3' BRASS CAP SET IN CONCRETE
FLUSH TO GROUND
Monument Stamped



Sketch



Agency: DAVID EVANS & ASSOCIATES
PHAX0006

Directions: (How to reach the location. Person to contact.)

START AT THE INTERSECTION OF HWY 97 & BURGESS ROAD, GO WEST
ON BURGESS RD FOR 10.5 MILES. TO FS RD 4380, GO LEFT ON FS RD
4380 FOR 3.7 MILES TO A "T" JUNCTION (WICKIUP DAM). GO LEFT FOR DAM R
FOR 1.7 MILES TO THE END OF DAM AND MAJOR INTERSECTION, STATION
IS IN A LITTLE HUMP TO LEFT, STATION 418 FT W OF SE CORNER OF FENCE AROUND
WEATHER STATION; 45 FT OF E OF DAM RD.

Handwritten signature or initials at the bottom of the page.

GPS STATION DATA SHEET

Please print all information.

Station Name: CRESCENT

Quad Name: CRESCENT

State/County: OR / KLAMATH

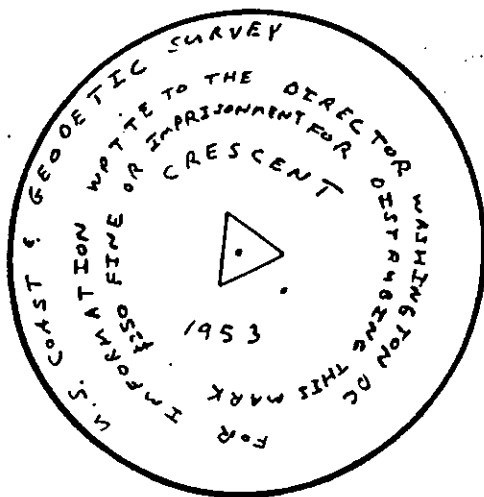
Year Established: 1953

THOMPSON

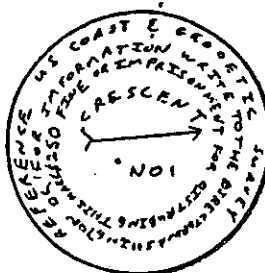
Year Recovered: —

Last Name

Monument Stamped

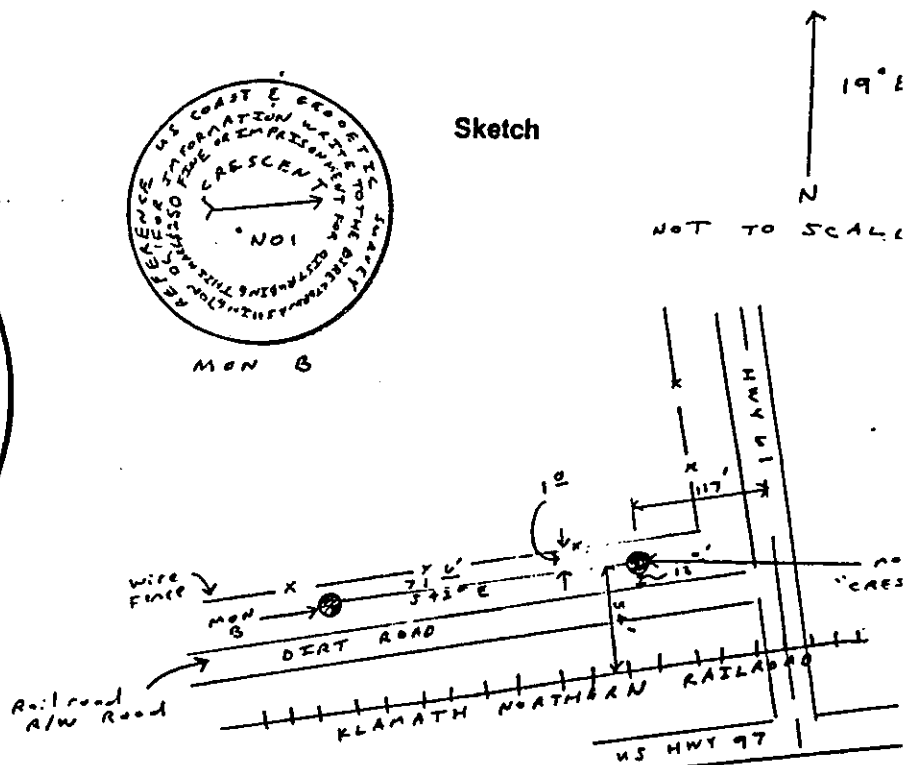


MON A



MON B

Sketch



Agency: U. S. C. G. S.

FHAX0006

Directions: (How to reach the location. Person to contact.)

FROM THE INTERSECTION OF HWY 97 & HWY 91 (CRESCENT) PROCEED WEST
240 FT TO THE R/W ROAD FOR THE KLAMATH NORTHERN RAILROAD.

PROCEED SOUTH 117 FT. TO A FOUND 3 1/2" DISK BE SET FLUSH IN A
1' X 1' CONCRETE PAD, WITH A STEEL WITNESS POST W/ U.S.C. & GS TAG N 50° E
1 1/2'. NOTE: REF. MON (SEE MON B IN SKETCH) FOUND.

John A. Thompson

11/07/1991

GPS STATION DATA SHEET

Please print all information.

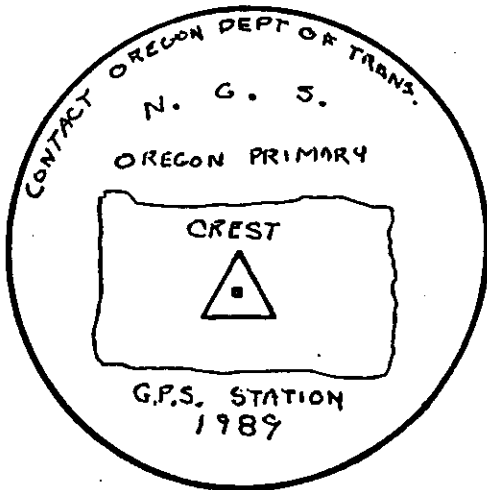
Station Name: CREST Quad Name: CRESCENT

State/County: OR. / KLAMATH Year Established: 89

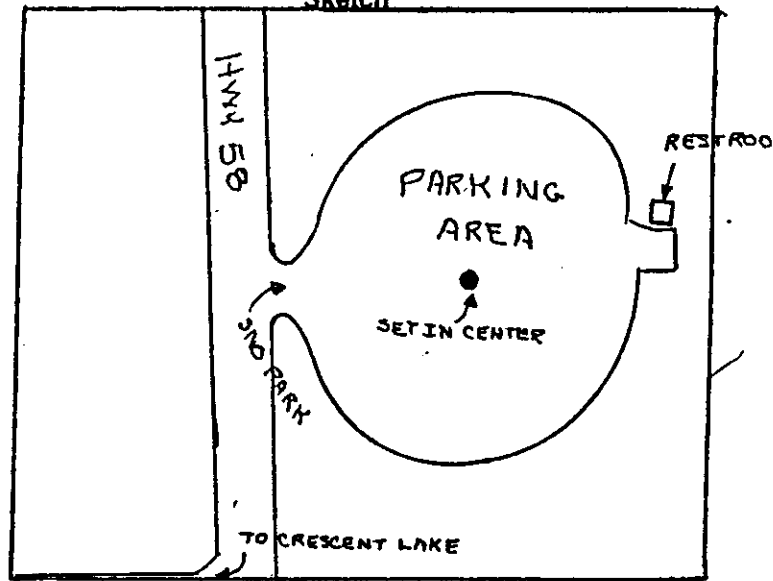
WILLIAMS Year Recovered: 91
Last Name

3" BRASS CAP SET IN CONCRETE IN
A MON BOX

Monument Stamped



Sketch



Agency: DAVID EVANS & ASSOCIATES
FHAX0006

Directions: (How to reach the location. Person to contact.)

START AT THE CRESCENT LAKE JCT ON HWY 58. GO NORTH ON HWY
58 FOR 0.1 MILE TO 3ND PARK ON RIGHT. TURN RIGHT AND GO TO
CENTER OF PARKING LOT TO STATION IN MON BOX. 184' FROM E. HWY 58
117.5' FROM N.W. CORNER OF RESTROOM.

Frank Williams

11-6-91

GPS STATION DATA SHEET

Please print all information.

Station Name: T363 - 1942

Quad Name: CRESCENT

State/County: OR 1 KLAMATH

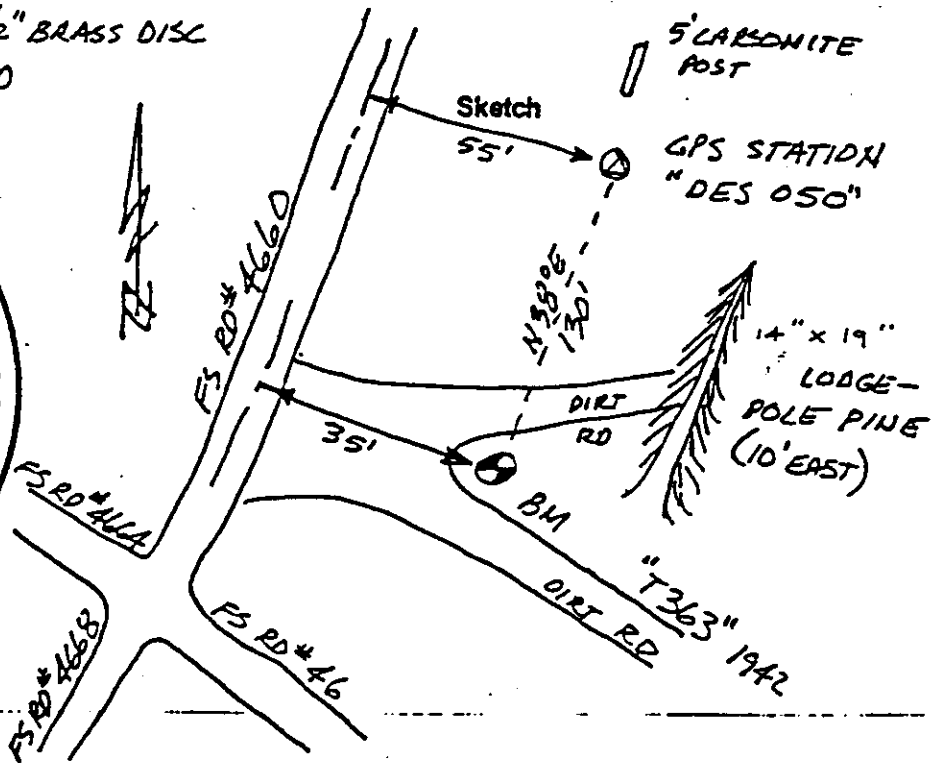
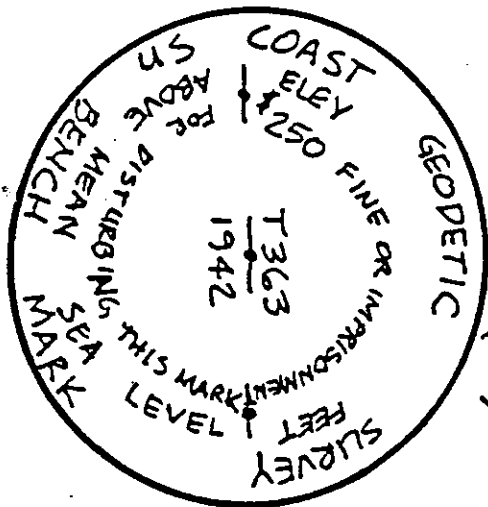
Year Established: 1942

SYKES

Year Recovered: 1991

Last Name

10" X 10" CONC. MON w/ 3/2" BRASS DISC
 5" ABOVE GROUND
 Monument Stamped



Agency: USGS

FHAX0006

Directions: (How to reach the location. Person to contact)

FROM THE INTERSECTION OF HIGHWAY 61 & FOREST SERVICE HIGHWAY #46,
GO NORTH 3.3 MILES TO FOREST SERVICE RD # 4660, TURN LT & GO 3.6
MILES TO A 4-WAY INTERSECTION, TURN RT ONTO FOREST SERVICE RD
4660 AND GO 0.2 MILES TO STATION ON RT.

GPS STATION DATA SHEET

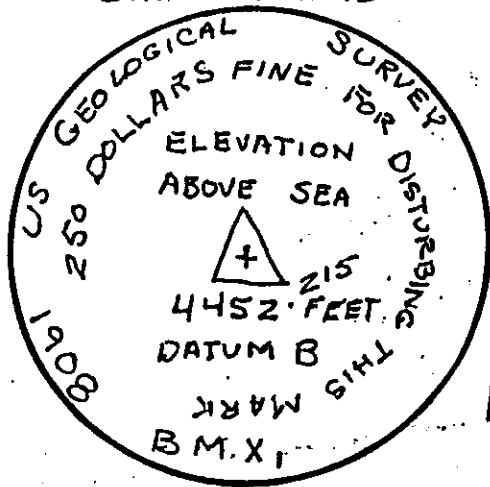
Please print all information.

Station Name: BMX1 Quad Name: CRESCENT

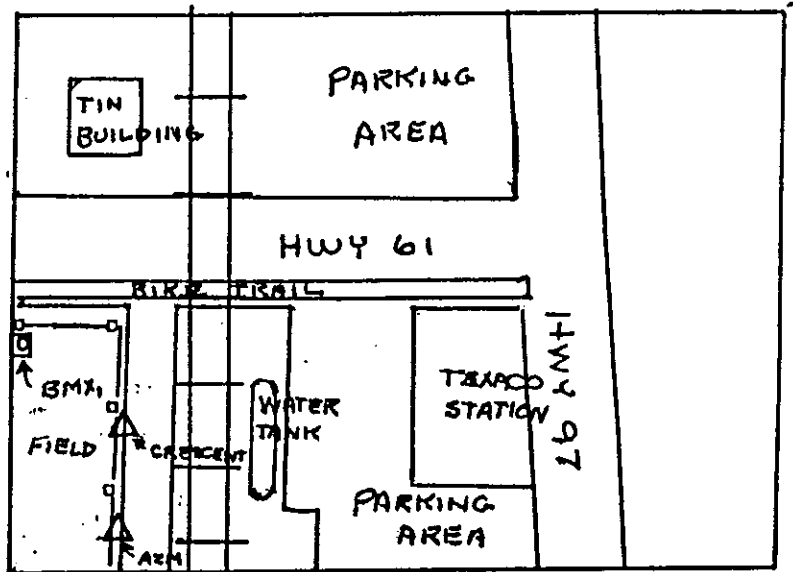
State/County: OR / KLAMATH Year Established: 1908

WILLIAMS Year Recovered: 91
Last Name

3" CAP ON IRON PIPE
SET .52 ABOVE GROUND
Monument Stamped
WITH ROCK MOUND



Sketch



Agency: DAVID EVANS AND ASSOCIATES
FHAX0006

Directions: (How to reach the location. Person to contact.)

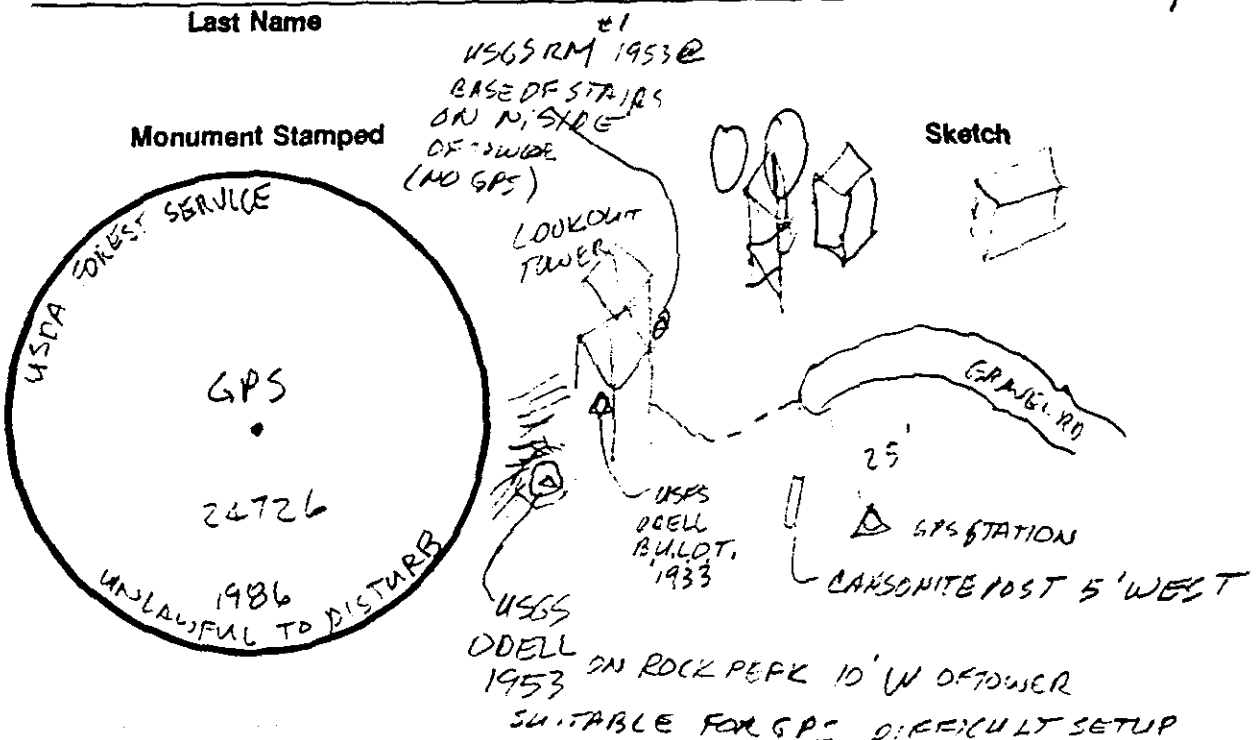
TO REACH STATION FROM THE INTERSECTION OF HWY 97 &
HWY 61. GO WEST ON HWY 61 FOR ABOUT 300' TO STATION ON LEFT
IN FIELD. 61' OFF & HWY 61, 182' E OF RR, 82' OFF STATION CALLED CRESC
ATA DIRECTION OF S 21° W.

Fred Williams 11-7-91
Signature Date

GPS STATION DATA SHEET

Please print all information.

Station Name: ODELL 1953 Quad Name: CRESCENT
 State/County: OR 1 KLAMATH Year Established: 1986
 Last Name: SYKES Year Recovered: 1991



Agency: FOREST SERVICE

Directions: (How to reach the location. Person to contact.)

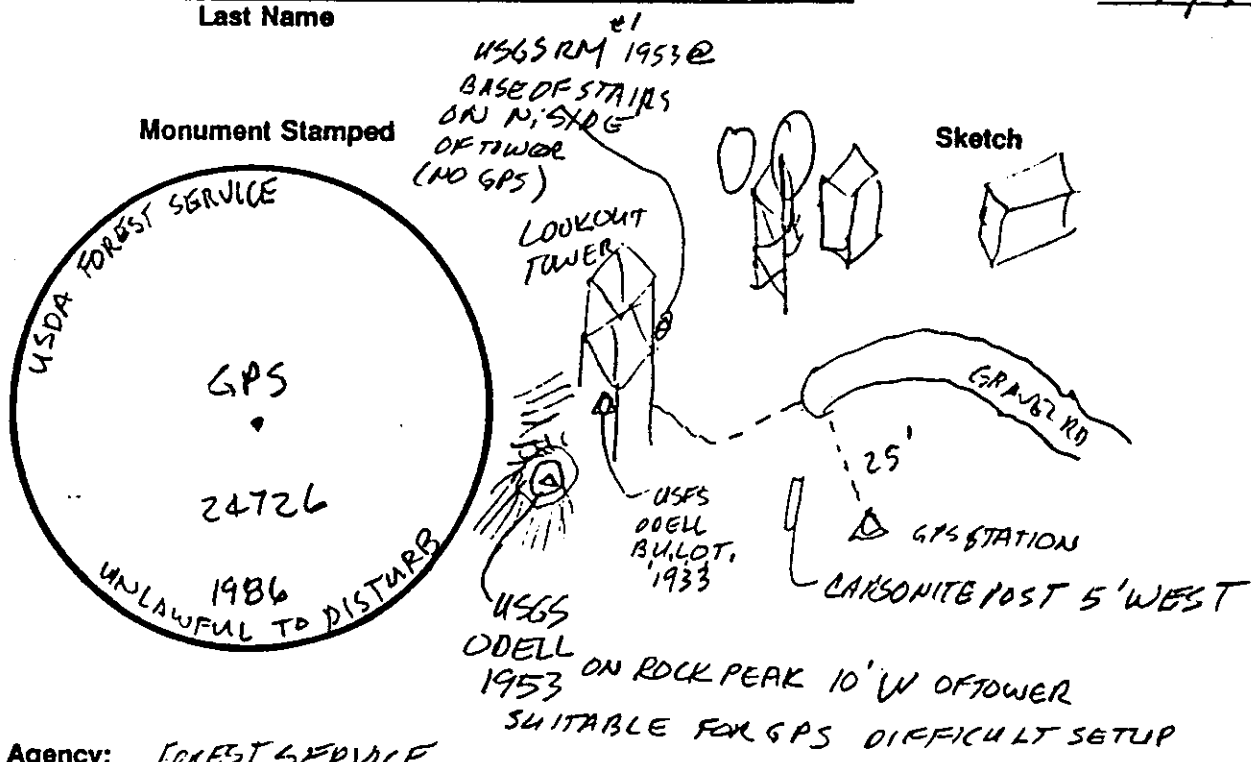
FROM THE INT OF HWY 61 & HWY 58, GO SOUTHEAST 2.95 MILES
(RSD 5815)
TO ODELL TOWER, TURN LT & GO 2.9 MILES TO FC RD 5315-500,
TURN RT & GO 1.65 MILES TO GATE ACROSS ROAD, CONTINUE 0.95
MILES TO LOOKOUT TOWER.

Gregory Sykes 10-3-91
 Signature Date

GPS STATION DATA SHEET

Please print all information.

Station Name: GPS 24726 & ODELL 1953 Quad Name: CRESCENT
State/County: OR 1 KLAMATH Year Established: 1986
SYKES Last Name Year Recovered: 1991



Agency: FOREST SERVICE

Directions: (How to reach the location. Person to contact.)

FROM THE INT OF HWY 61 & HWY 58, GO SOUTHEAST 2.95 MILES (FS RD 5815)
TO ODELL BUTTER RD, TURN LT & GO 2.9 MILES TO FS RD 5815-500,
TURN RT & GO 1.65 MILES TO GATE, ACROSS ROAD, CONTINUE 0.95
MILES TO LOOKOUT TOWER.

Aracory Sykes
Signature

10-3-91
Date

GPS STATION DATA SHEET

Please print all information.

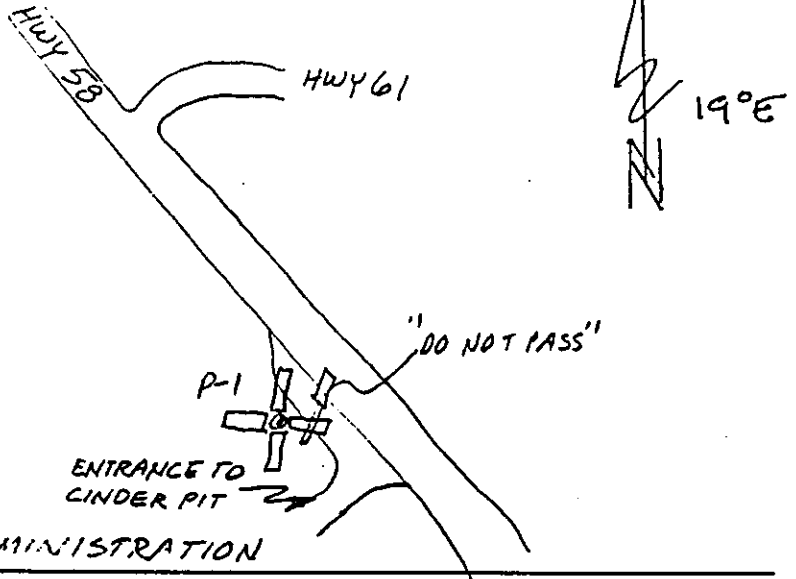
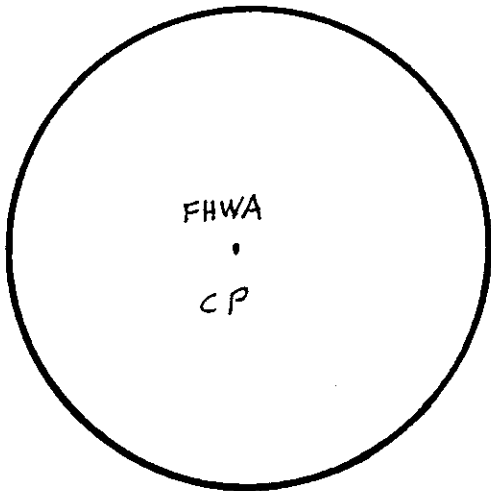
Station Name: P-1 Quad Name: CRESCENT

State/County: OR 1 KLAMATH Year Established: 1991

SYKES Year Recovered: _____
Last Name

SET 1/2" x 2 1/2" IR w/ YELLOW PLASTIC CAP
Monument Stamped 03 DEEP

Sketch



Agency: FEDERAL HIGHWAY ADMINISTRATION
FHAX0006

Directions: (How to reach the location. Person to contact.)

FROM THE INT. OF HWY 61 & HWY 58 GO SOUTHEAST 0.25 MI TO A PAVED TURNOUT ON THE RIGHT.
STATION IS 150' SOUTHEAST FROM THE NW END OF TURNOUT, 3' SW OF THE EDGE OF
ASPHALT AND 9^B NW OF "DO NOT PASS" SIGN

ANGELA P. FISHER 10-1-91

GPS STATION DATA SHEET

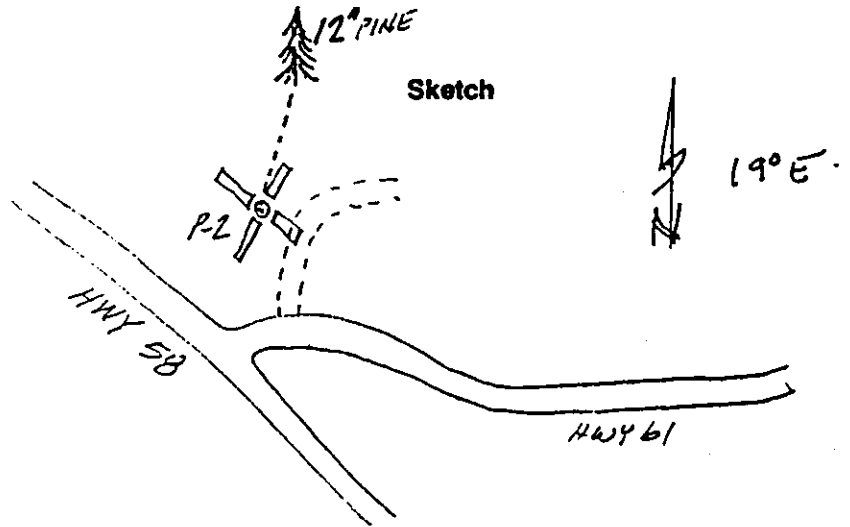
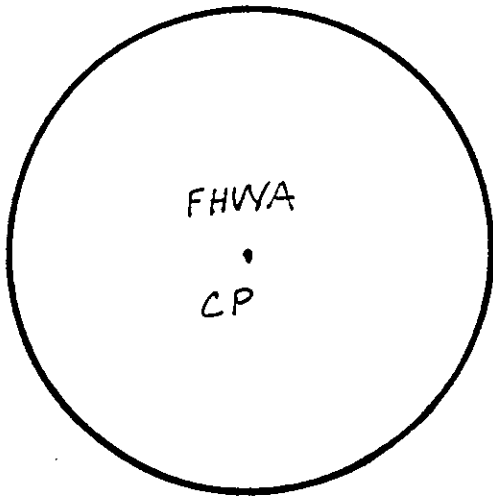
Please print all information.

Station Name: P-2 Quad Name: CRESCENT

State/County: OR 1 KLAMATH Year Established: 1991

SYKES Last Name Year Recovered: _____

SET 1/2" X 24" IR w/ YELLOW CAP
Monument Stamped



Agency: FEDERAL HIGHWAY ADMINISTRATION
FHAX0006

Directions: (How to reach the location. Person to contact)

FROM THE INT HWY 58 & HWY 61, GO EAST 100' TO A DIRT ROAD ON LEFT, TURN
LT AND GO 110' TO STATION ON LEFT. STATION IS 12' NW OF THE & DIRT RD
12" PINE N32°E 70'

SUITABLE FOR GPS

Gregory P. Sykes Signature Date 10-1-91

GPS STATION DATA SHEET

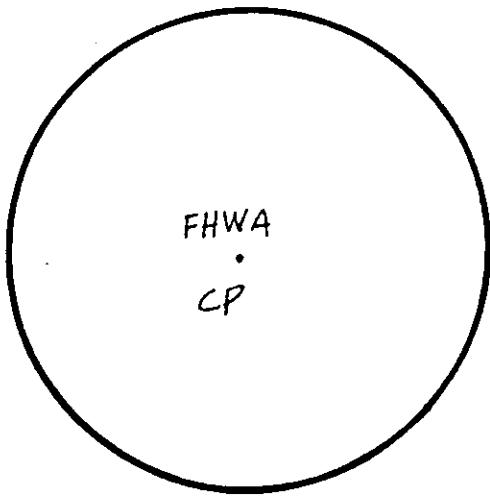
Please print all information.

Station Name: P-4 Quad Name: CRESCENT

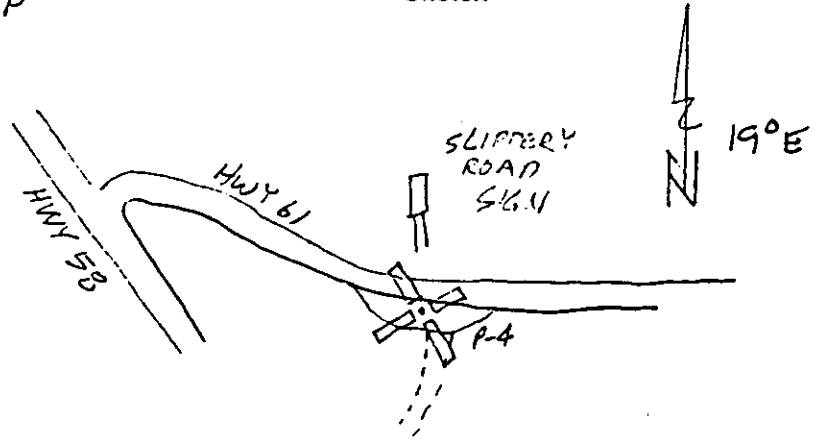
State/County: OR 1 KLAMATH Year Established: 1991

SYKES Year Recovered: _____
Last Name

SET 1/2" x 2 1/2" IR. W/ YELLOW PLASTIC CAP
Monument Stamped 03 DEEP



Sketch



Agency: FEDERAL HIGHWAY ADMINISTRATION
FHAX0006

Directions: (How to reach the location. Person to contact.)
FROM THE INT. OF HWY 58 & HWY 61, GO EAST 0.15 MI TO TURNOUT ON RIGHT,
STATION IS 2° S. OF EDGE PAVEMENT, N 7° W 36' TO "SLIPPERY ROAD" SIGN

NOT SUITABLE FOR GPS

G. L. Sikes 10-1-91

GPS STATION DATA SHEET

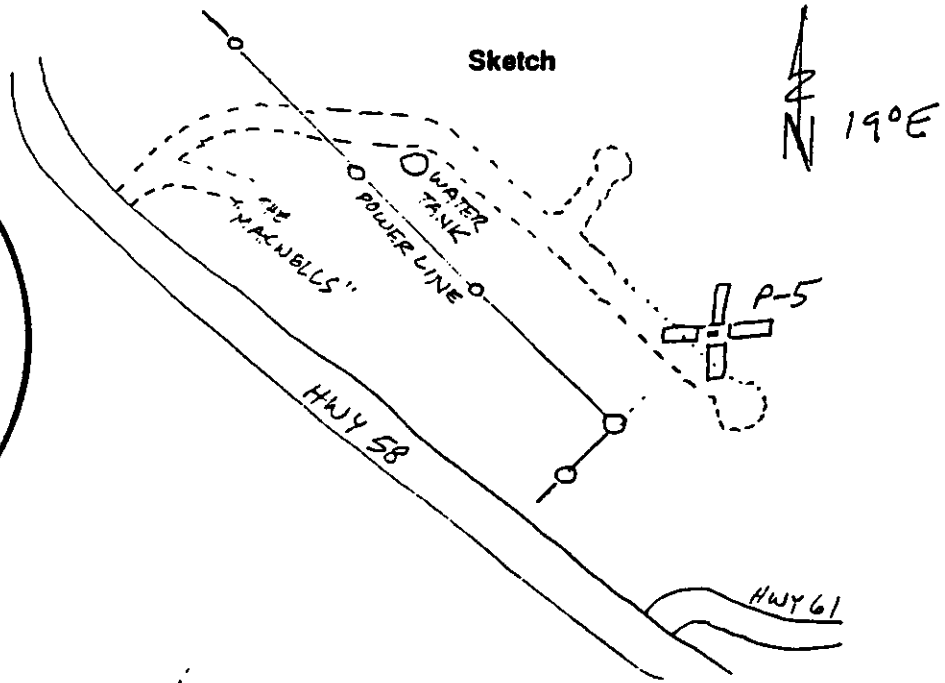
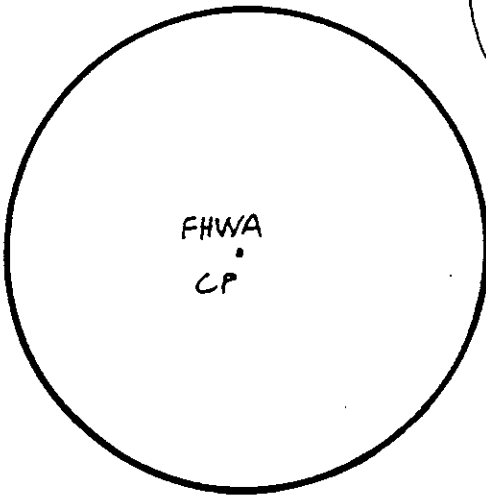
Please print all information.

Station Name: P-5 Quad Name: CRESCENT

State/County: OR 1 KLAMATH Year Established: 1991

SYKES Year Recovered: _____
Last Name

SET 1/2" IR W/ YELLOW PLASTIC CAP
Monument Stamped



Agency: FEDERAL HIGHWAY ADMINISTRATION
FHAX0006

Directions: (How to reach the location. Person to contact.)

FROM THE INT OF HWY 58 & HWY 61 GO NW 0.4 MILES TO GRAVEL RD ON RT,
TURN RT & GO 0.3 MILES (125' PAST INT. OF GRAVEL RD ON LT), STATION IS 15' NE
OF E OF GRAVEL RD. STATION IS NE OF THE POWERLINE ON LINE WITH THE PROJECTION
OF THE POWERLINE RUNNING NE & SW

Gregory P. Baker
Signature

10-1-91
Date

GPS STATION DATA SHEET

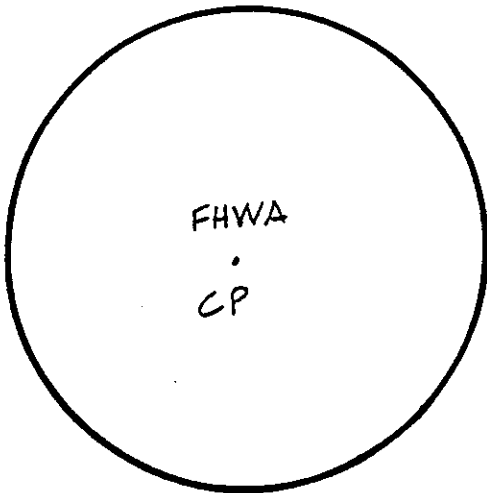
Please print all information.

Station Name: P-8 Quad Name: CRESCENT

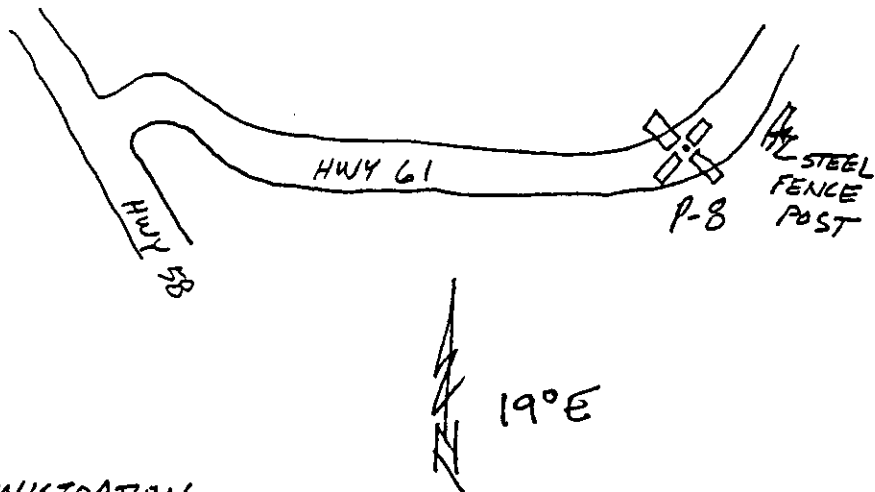
State/County: OR / KLAMATH Year Established: 1991

SYKES Year Recovered: _____
Last Name

Monument Stamped



Sketch



Agency: FEDERAL HIGHWAY ADMINISTRATION
FHAX0006

Directions: (How to reach the location. Person to contact.)

FROM THE INT OF HWY 58 & HWY 61 GO 1.5 MILES ON HWY 61 TO STATION IN E
HWY 61. STATION IS 55' WEST OF STEEL POST ON S. SIDE OF HWY.

James P. Sykes

10-1-91

GPS STATION DATA SHEET

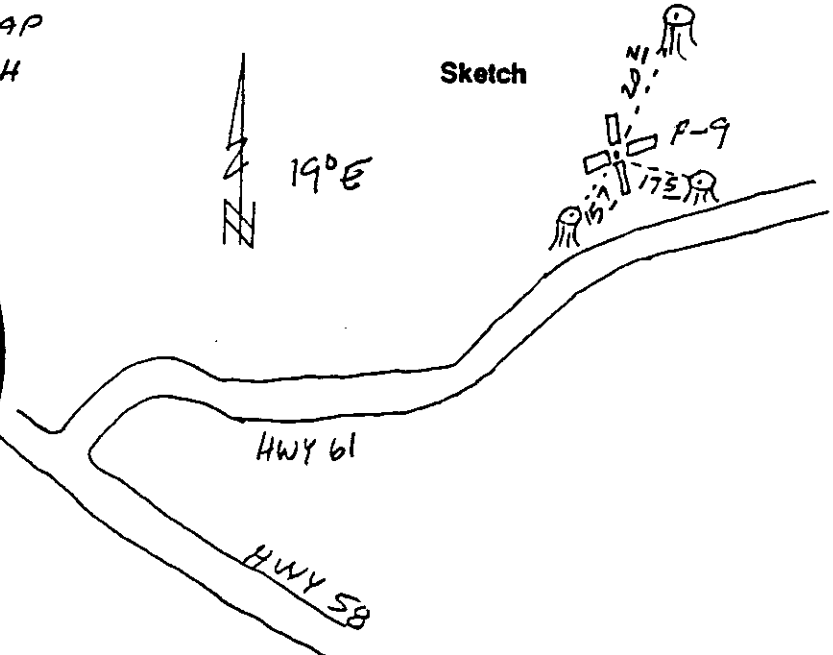
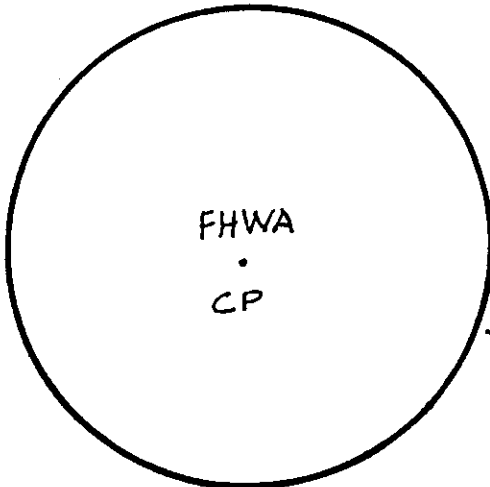
Please print all information.

Station Name: P-9 Quad Name: CRESCENT

State/County: OR 1 KLAMATH Year Established: 1991

SYKES Year Recovered: _____
Last Name

SET 1/2" X 24" IR W/ YELLOW PLASTIC CAP
Monument Stamped FLUSH



Agency: FEDERAL HIGHWAY ADMINISTRATION
FHAX0006

Directions: (How to reach the location. Person to contact.)
FROM THE INT OF HWY 58 & HWY 61 GO 1.9 MILES EAST ON HWY 61 TO
STATION ON LEFT. STATION IS ± 55' NW OF E HWY 61; 32" PINE STUMP S15° W
15', 33" PINE STUMP S31° E 17', 34" PINE STUMP N31° E 20', 425' W. OF
MILE POST "2"

Gregory P. Sykes Signature Date 10-1-91

GPS STATION DATA SHEET

Please print all information.

Station Name: P-10

Quad Name: CRESCENT

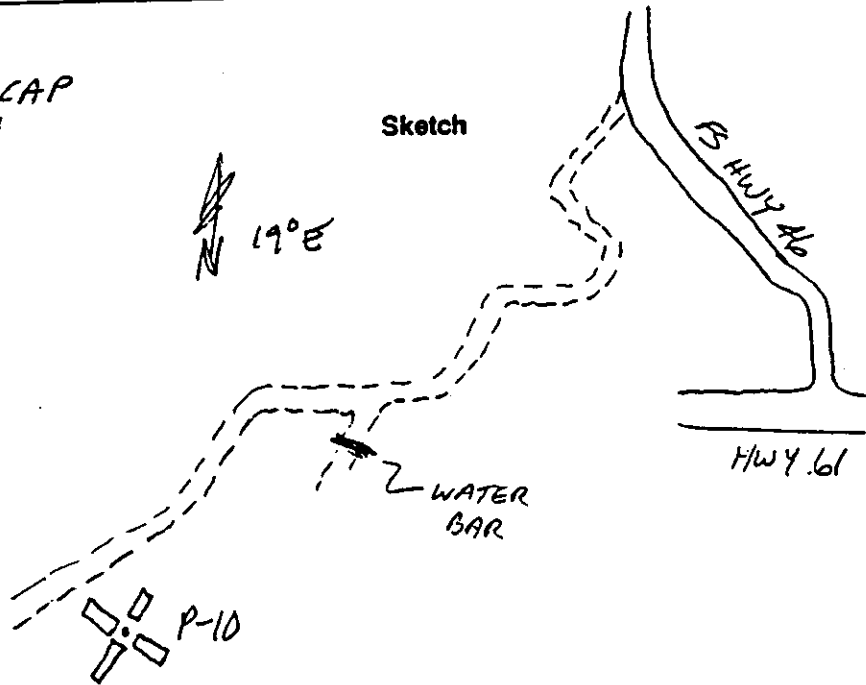
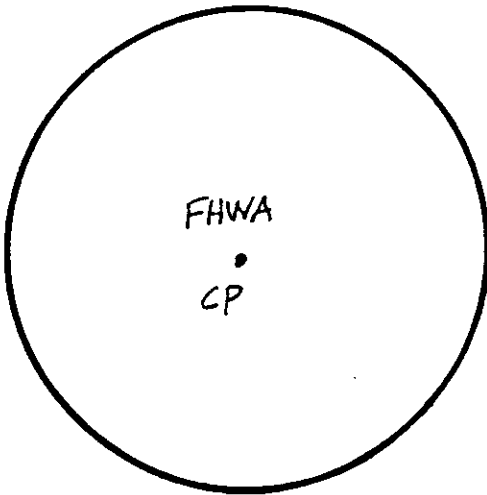
State/County: OR / KLAMATH

Year Established: 1991

SYKES
Last Name

Year Recovered: _____

SET 1/2" X 3/4" IR w/ YELLOW PLASTIC CAP
Monument Stamped FLUSH



Agency: FEDERAL HIGHWAY ADMINISTRATION
FHAX0006

Directions: (How to reach the location. Person to contact.)

FROM THE INT OF HWY 61 & FS HWY 46 GO 0.45 MILES NORTH ON FS HWY 46,
TURN LT AND GO 0.95 MILES TO "Y" (RD TO LT HAS WATER BAR), GO TO THE RT
0.8 MILES TO THE STATION ON THE LEFT. STATION IS 55' S. OF THE E OF
THE LOGGING RD. S32°E TO THE OOREL MTN LOOKOUT TOWER.

SUITABLE FOR GPS. CAN SEE TO THE CLEARCUT AT P-7

Arman P. Sykes

10-1-91

GPS STATION DATA SHEET

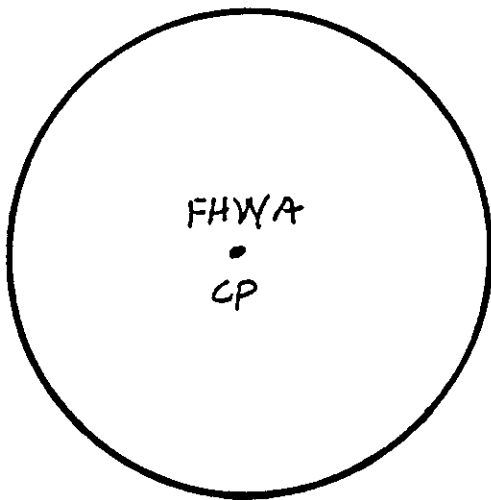
Please print all information.

Station Name: P-11 Quad Name: CRESCENT

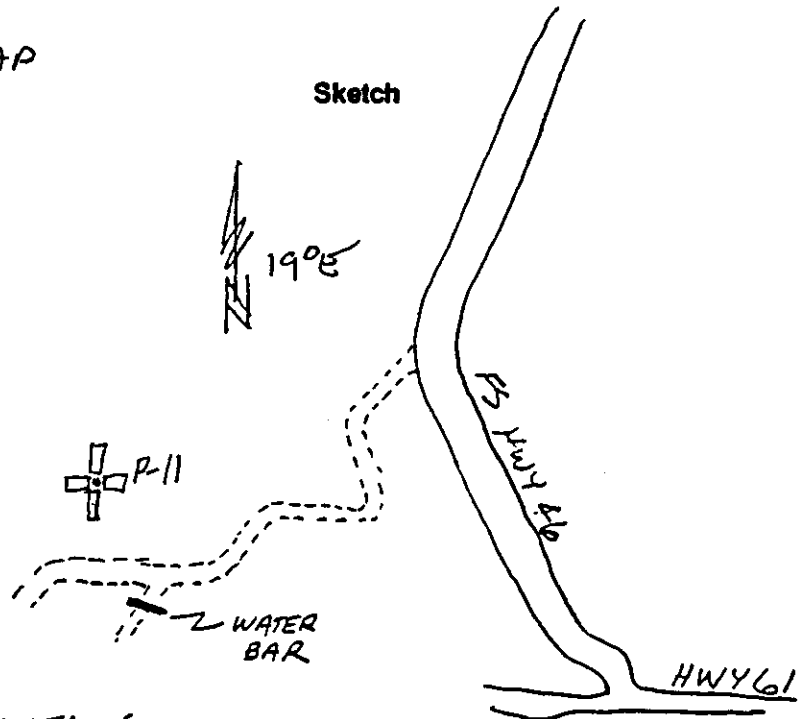
State/County: OR 1 KLAMATH Year Established: 1991

SYKES Year Recovered: _____
Last Name

SET 1/2" X 2 1/2" IR w/ YELLOW PLASTIC CAP
Monument Stamped FLUSH



Sketch



Agency: FEDERAL HWY ADMINISTRATION
FHAX0006

Directions: (How to reach the location. Person to contact.)

FROM THE INT OF HWY 61 & FS HWY 46 GO 0.45 MILES NORTH ON FS HWY 46,
TURN LT AND GO 0.95 MILES TO "Y" (RD TO LT HAS WATER BAR), GO TO THE
RT 650' TO THE STATION ON RT. STATION IS 105' N OF LOGGING RD IN
CLEARCUT.

10" LARCH S 57° W 34', 9" LARCH S 81° E 40'
SUITABLE FOR GPS

Gregory P. Sykes 10-1-91
Signature Date

GPS STATION DATA SHEET

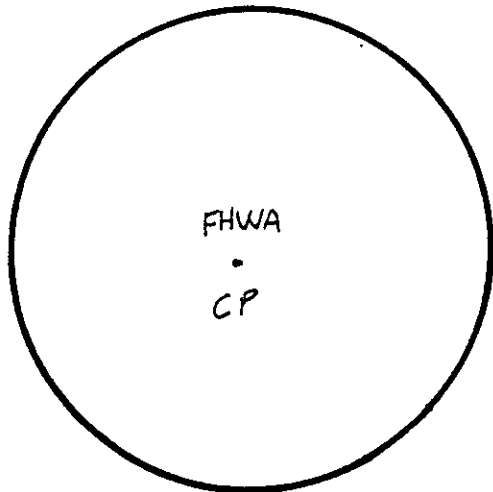
Please print all information.

Station Name: P-12 Quad Name: CRESCENT

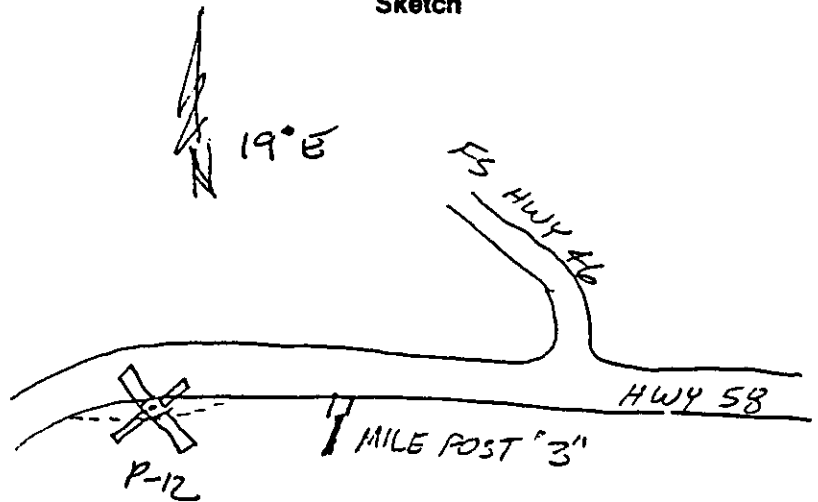
State/County: OR 1 KLAMATH# Year Established: 1991

SYKES Year Recovered: _____
Last Name

SET 1/2" X 2 1/4" IR W/ YELLOW PLASTIC CAP
D ≈ DEEP
Monument Stamped



Sketch



Agency: FEDERAL HIGHWAY ADMINISTRATION
FHAX0006

Directions: (How to reach the location. Person to contact.)

FROM THE INT OF HWY 58 AND FOREST SERVICE RD 46, GO WEST 0. MILES
TO STATION ON LEFT. STATION IS IN TURN OUT ON SOUTH SIDE OF THE HWY 58
2' FROM EDGE OF PAVEMENT ± 260' W. OF MILE POST "3"

Kevin P. [unclear]

12-15-91

GPS STATION DATA SHEET

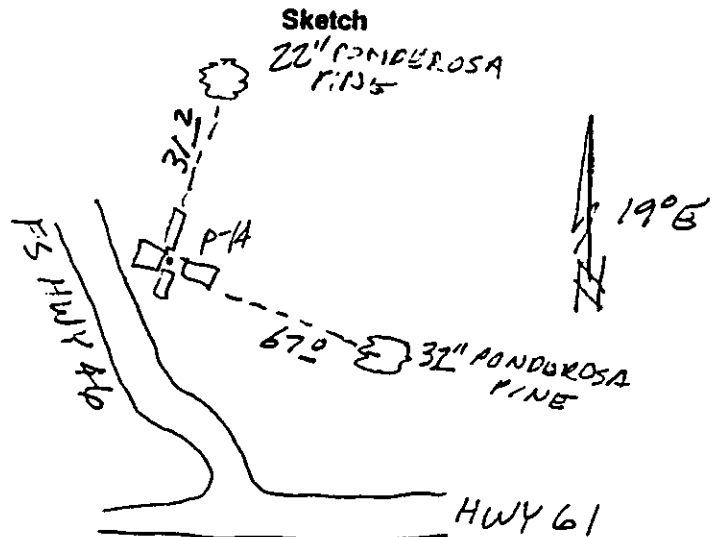
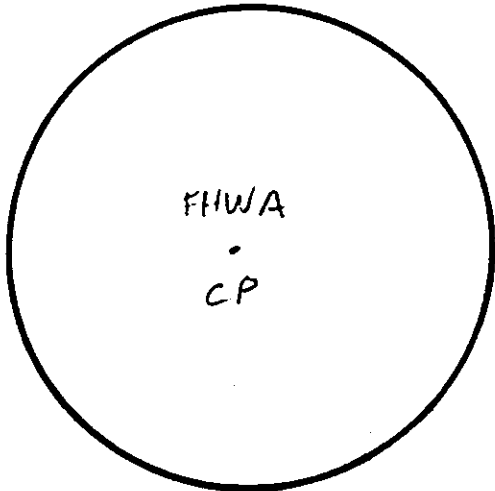
Please print all information.

Station Name: P-14 Quad Name: CRESCENT

State/County: OR 1 KLAMATH Year Established: 1991

SYKES Year Recovered: _____
Last Name

SET $\frac{1}{2}$ " X 24" IR w/ YELLOW PLASTIC CAP
Monument Stamped FLUSH



Agency: FEDERAL HIGHWAY ADMINISTRATION
FHAX0006

Directions: (How to reach the location. Person to contact.)

FROM THE INTERSECTION OF HWY 61 & FS HWY 46 GO 0.25 MI NORTH
ON FS HWY 46 TO STATION ON RT. STATION IS EAST OF EDGE OF
PAVEMENT.

22" PONDEROSA PINE N34°E 31 1/2', 32" PONDEROSA PINE S81°E 67'

Andrew P. Sikes
Signature

10-2-91
Date

GPS STATION DATA SHEET

Please print all information.

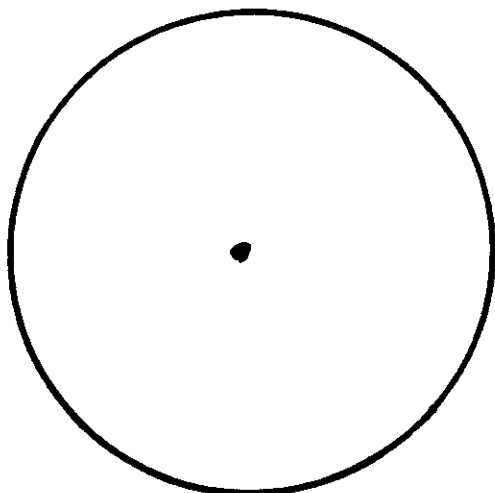
Station Name: P-15 Quad Name: CRESCENT

State/County: OR 1 KLAMATH Year Established: 1991

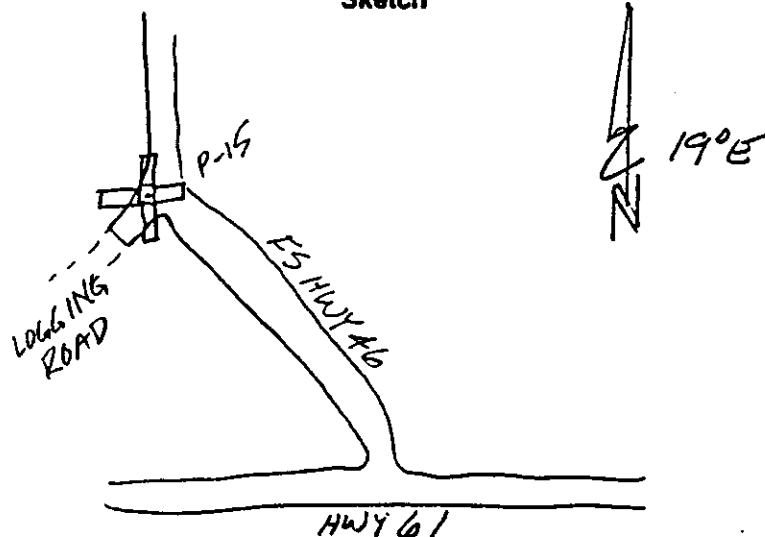
SYKES Year Recovered: _____
Last Name

SET RAMSET NAIL FLUSH

Monument Stamped



Sketch



Agency: FEDERAL HIGHWAY ADMINISTRATION
FHAX0006

Directions: (How to reach the location. Person to contact.)

FROM THE INT OF HWY 61 & FOREST SERVICE HWY 46, GO NORTH
0.45 MILES TO STATION. STATION IS 5' SE FROM EDGE PAVEMENT,
30' SW OF FS HWY 46 & 13' NW OF E OF LOGGING ROAD,

David P. Sykes

10-1-91

GPS STATION DATA SHEET

Please print all information.

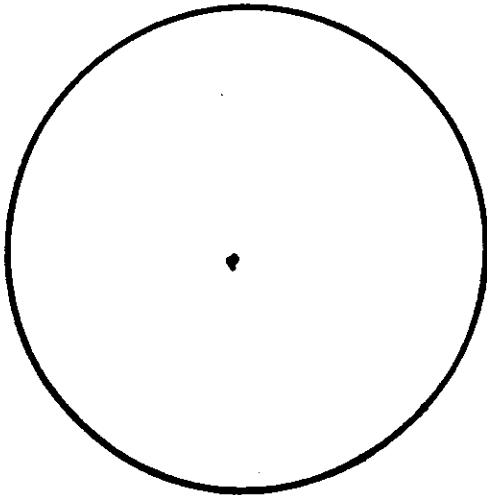
Station Name: P-116 Quad Name: CRESCENT

State/County: OR 1 KIAMATH Year Established: 1991

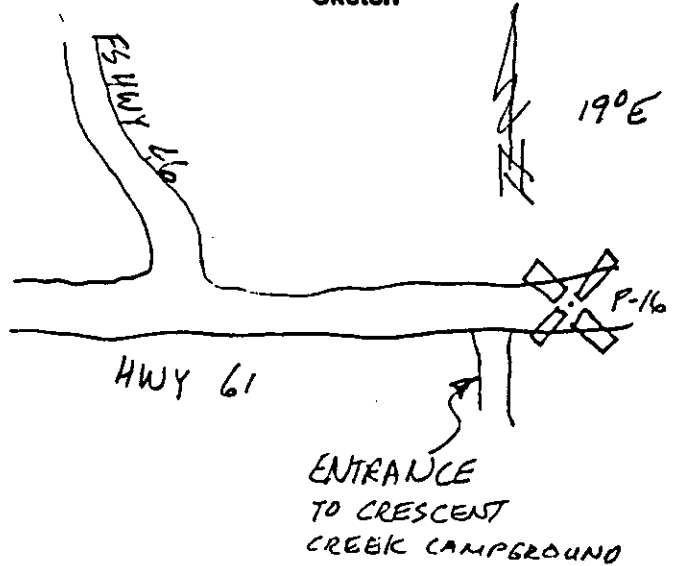
SYKES Year Recovered: _____
Last Name

SET RAMSET NAIL FLUSH w/ ASPH.

Monument Stamped



Sketch



Agency: FEDERAL HIGHWAY ADMINISTRATION
PHAX0006

Directions: (How to reach the location. Person to contact.)

FROM THE INTERSECTION OF HWY 61 & FS HWY 46, GO 0.2 MILES EAST TO
STATION IN & STRIPE ON HWY 61

Andrew P. Baker

10-2-91

GPS STATION DATA SHEET

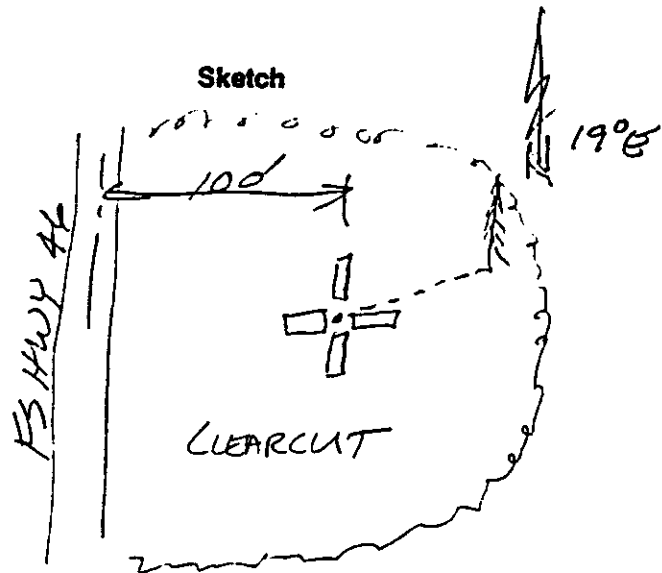
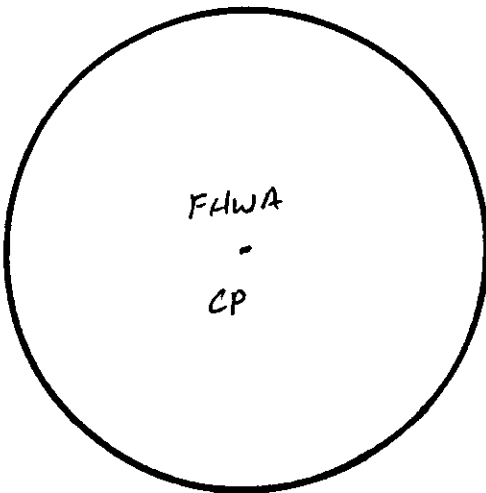
Please print all information.

Station Name: P-17 Quad Name: CRESCENT

State/County: OR 1 KLAMATH Year Established: 1991

SYKES
Last Name Year Recovered: _____

SET 1/2" X 24" IR YELLOW PLASTIC CAP
Monument Stamped ELLIS #



Agency: FEDERAL HWY ADMINISTRATION
FHAX0006

Directions: (How to reach the location. Person to contact.)

FROM INT HWY 61 E FS HWY 46 GO NORTH 1.3 MILES TO STATION
ON RT. STATION IS 100' EAST OF FS HWY 46.
3/4" PONDEROSA PINE N51°E 16°

Bruce P. Sykes

10-3-91

GPS STATION DATA SHEET

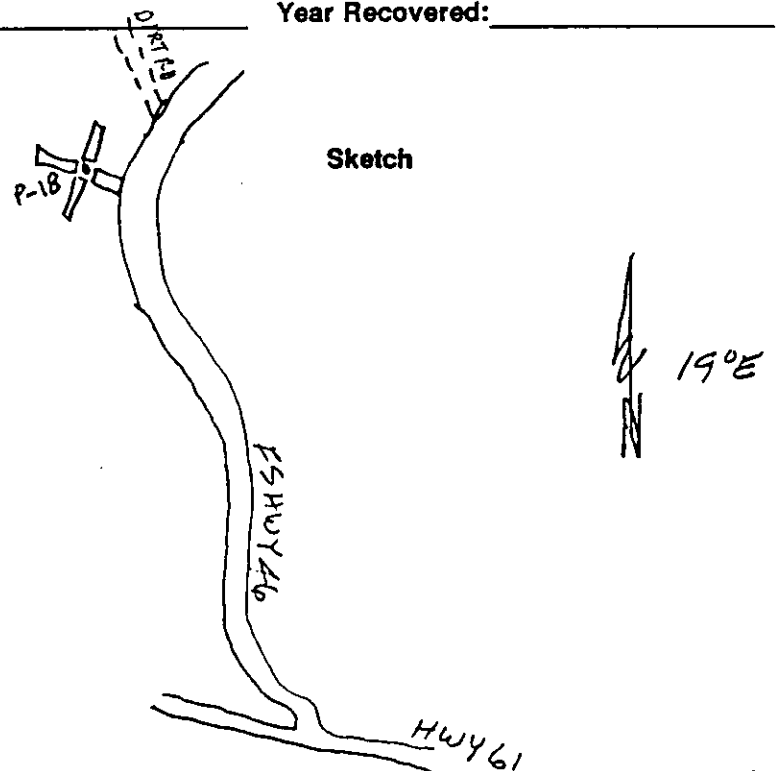
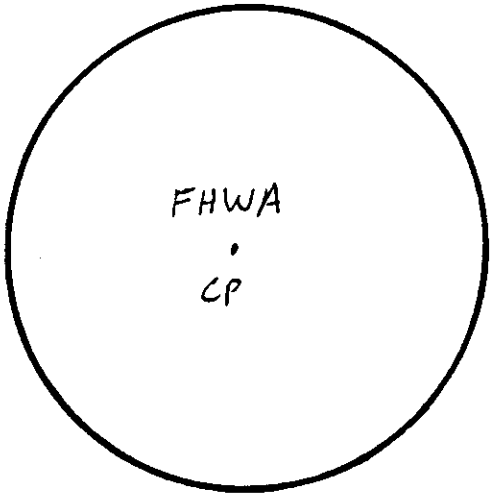
Please print all information.

Station Name: P-18 Quad Name: CRESCENT

State/County: OR 1 KLAMATH Year Established: 1991

SYKES Last Name Year Recovered: _____

SET 1/2" x 24" IR w/PLASTIC CAP
025 BELOW SURFACE
Monument Stamped



Agency: FEDERAL HIGHWAY ADMINISTRATION
FHAX0006

Directions: (How to reach the location. Person to contact.)

FROM THE INTERSECTION OF HWY 61 & FS HWY 46, GO 2.55 MILES NORTH
ON FS HWY 46 TO STATION ON LEFT. STATION IS 9° SW OF EDGE
PAVEMENT. STATION IS ±230' SW OF DIRT RD TO NW

August P. Sykes
Signature

10-2-91
Date

GPS STATION DATA SHEET

Please print all information.

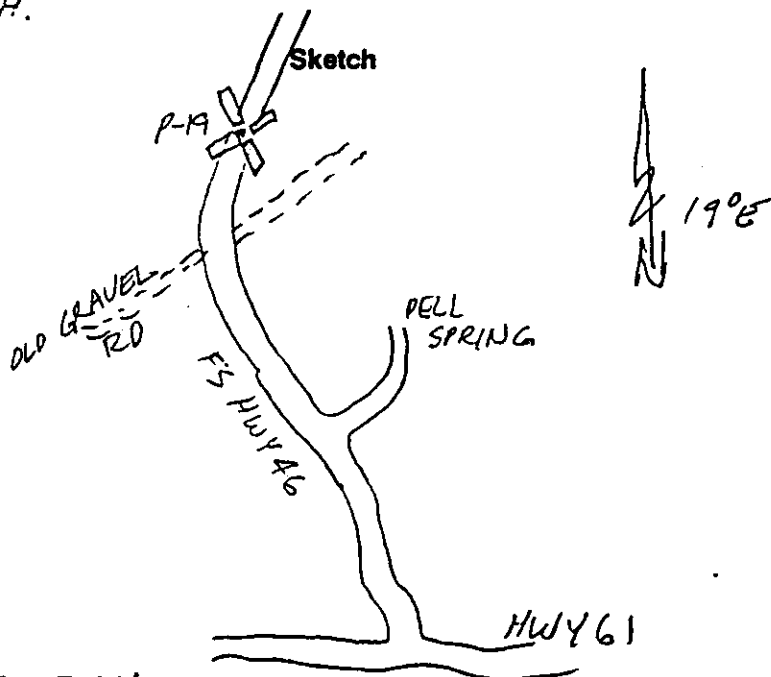
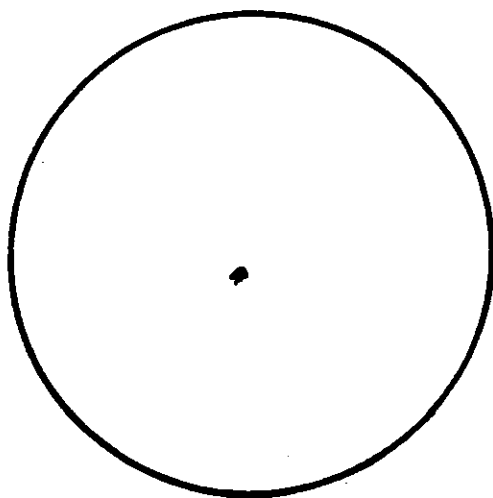
Station Name: P-19 Quad Name: CRESCENT

State/County: OR 1 KLAMATH Year Established: 1991

SYKES Year Recovered: _____
Last Name

SET RAMSET NAIL FLUSH 4/ASPH.

Monument Stamped



Agency: FEDERAL HWY ADMINISTRATION
FHAX0006

Directions: (How to reach the location. Person to contact.)

FROM THE INTERSECTION OF HWY 61 & FS HWY 46 GO 3.0 MILES TO
THE STATION IN THE STRIPE OF FS HWY 46. 1300' NW OF GRAVEL
ROAD.

Anthony P. Sikes

10-2-91

GPS STATION DATA SHEET

Please print all information.

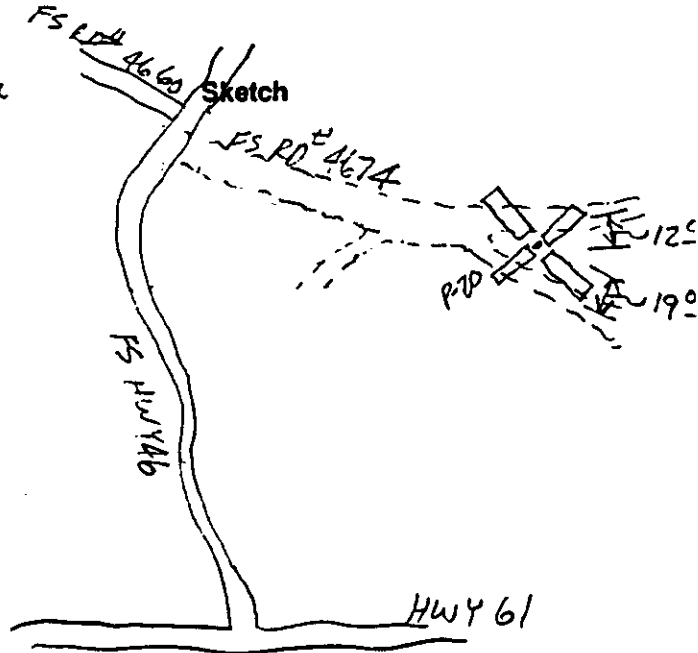
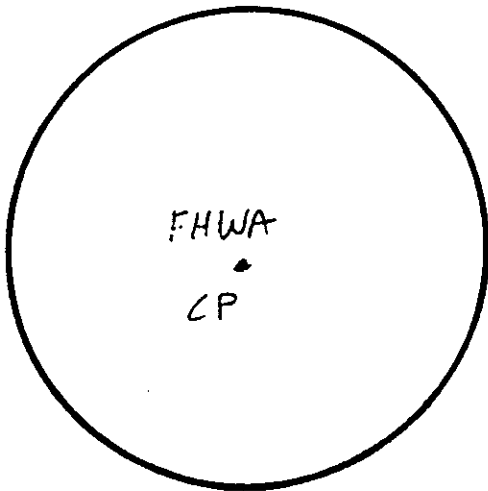
Station Name: P-20 Quad Name: CRESCENT

State/County: OR 1 KLANATH Year Established: 1991

SYCES Year Recovered: _____
Last Name

SET 1/2" x 24" IR w/ YELLOW PLASTIC CAP

Monument Stamped \odot \pm BELOW GRAVEL



Agency: FEDERAL HWY ADMINISTRATION
FHAX0006

Directions: (How to reach the location. Person to contact.)

FROM THE INTERSECTION OF HWY 61 & FS HWY 60 3.2 MILES NORTH
ON FS HWY TO FS RD # 4674, TURN RT ON # 4674 AND GO 0.25 MILES TO
STATION AT A "Y" INTERSECTION. STATION IS 19° NE OF E GRAVEL RD TO THE
RT (SOUTH) AND 12° SOUTH OF GRAVEL RD TO THE LT (EAST).

[Handwritten signature]

10-7-91

GPS STATION DATA SHEET

Please print all information.

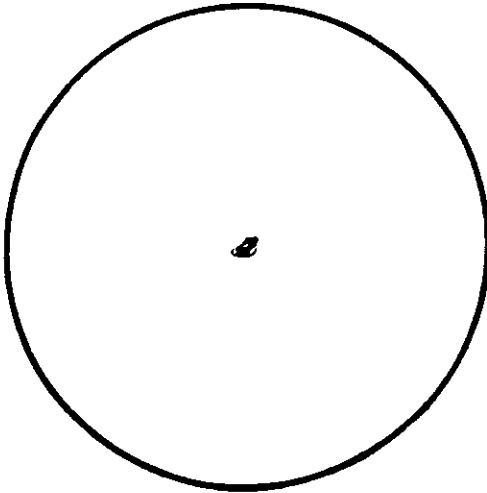
Station Name: P-21 Quad Name: CRESCENT

State/County: OR / KLAMATH Year Established: 1991

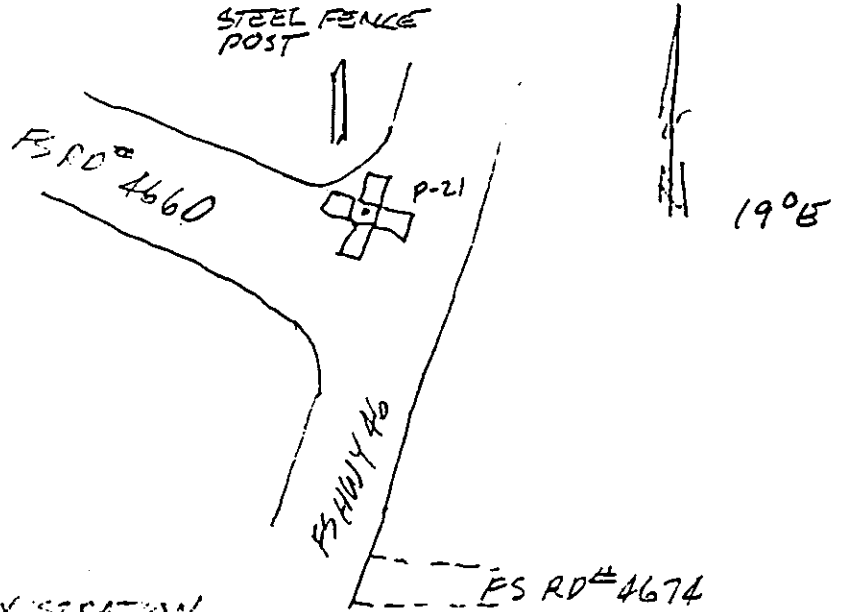
SYKES Year Recovered: _____
Last Name

SET RANGING NAIL FLUSH

Monument Stamped



Sketch



Agency: FEDERAL HIGHWAY ADMINISTRATION
FHAX0006

Directions: (How to reach the location. Person to contact.)

FROM THE INTERSECTION OF HWY 61 & FS HWY 46 GO NORTH
3.25 MILES TO RD #4660. STATION IS 183' NW OF E FS HWY 46 &
175' NE OF E OF FS RD #4660. STEEL FENCE POST N 3° W 33'.

Gregory P. [Signature]
Signature

10-2-91
Date

GPS STATION DATA SHEET

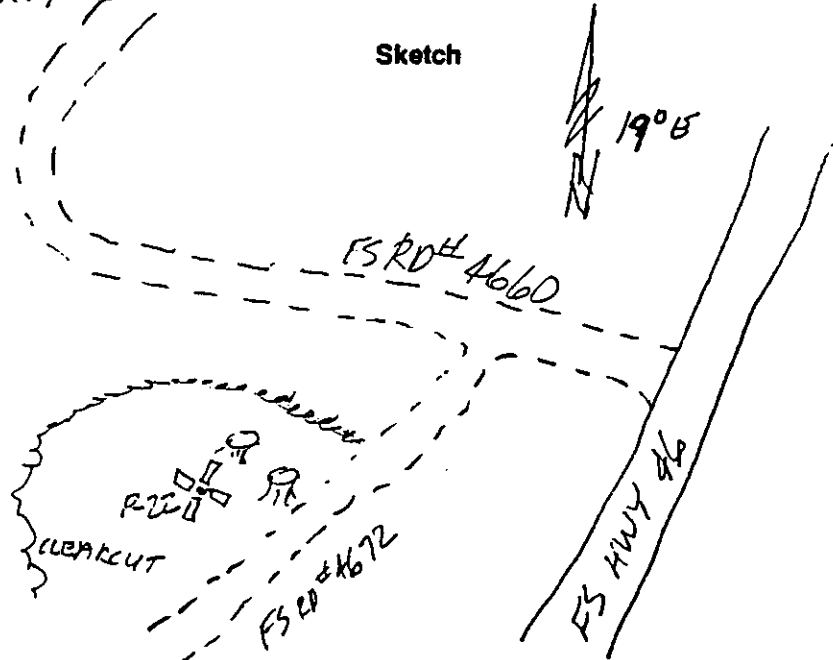
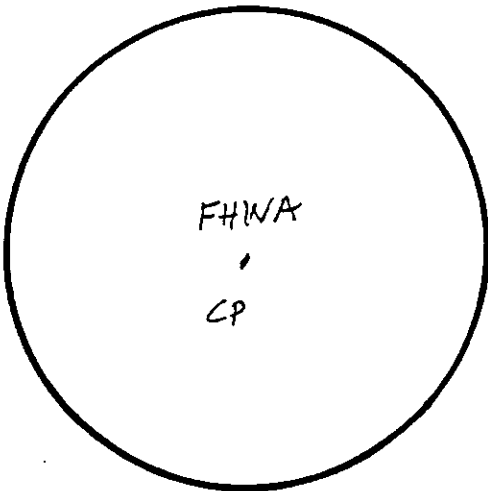
Please print all information.

Station Name: P-22 Quad Name: CRESCENT

State/County: OR 1 KLAMATH Year Established: 1991

SYKES Year Recovered: _____
Last Name

SET 1/2" x 2" IR W/ YELLOW PLASTIC CAP
FLUSH
Monument Stamped



Agency: FEDERAL HIGHWAY ADMINISTRATION
FHAX0006

Directions: (How to reach the location. Person to contact.)

FROM THE INTERSECTION OF HWY #1 & FS HWY #6 GO NORTH 3.25
MILES ON FS HWY #6 TO FS RD #4660, TURN RT & GO 0.1 MILES TO
FS RD #4672, TURN LT & GO 0.15 MILES TO STATION ON RT. STATION IS
75' NW OF E OF FS RD #4672 AND ±130' SW OF THE EDGE OF CLEARCUT.
46" PONDEROSA PINE STUMP N83°E 74', 42" PONDEROSA PINE S65°E 457

MICHAEL P. SYKES

10-3-91

GPS STATION DATA SHEET

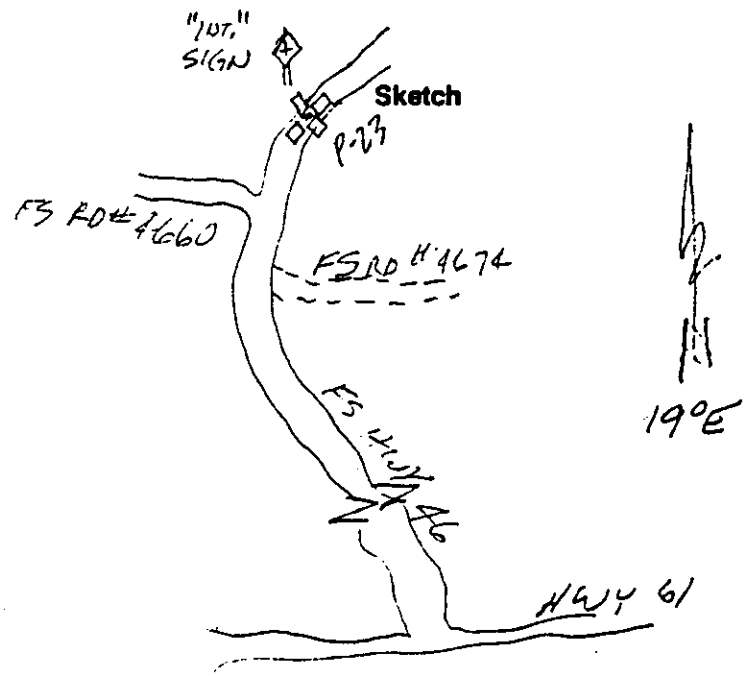
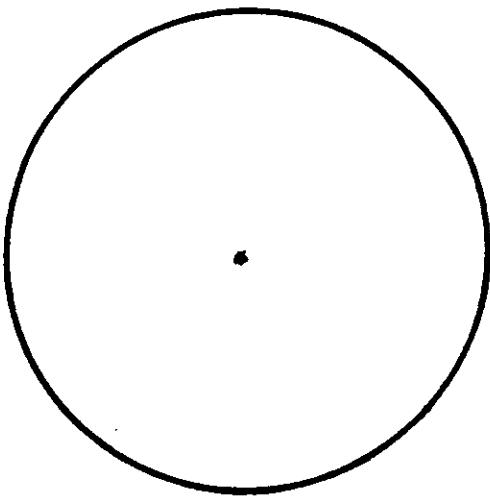
Please print all information.

Station Name: P-23 Quad Name: CRESCENT

State/County: OR 1 KLAMATH Year Established: 1991

SYKES Year Recovered: _____
Last Name

SET RAMSET NAIL FLUSH
Monument Stamped



Agency: FEDERAL HIGHWAY ADMINISTRATION
FHAX0006

Directions: (How to reach the location. Person to contact.)
FROM THE INTERSECTION OF HWY 61 & FOREST SERVICE HWY 46, GO 3.4
MILES NORTH ON FS HWY 46 TO THE STATION IN THE E STRIPE ON FS
HWY 46. "INTERSECTION" SIGN IS N 41° W

Gregory P. Sykes 10-2-91
Signature Date

GPS STATION DATA SHEET

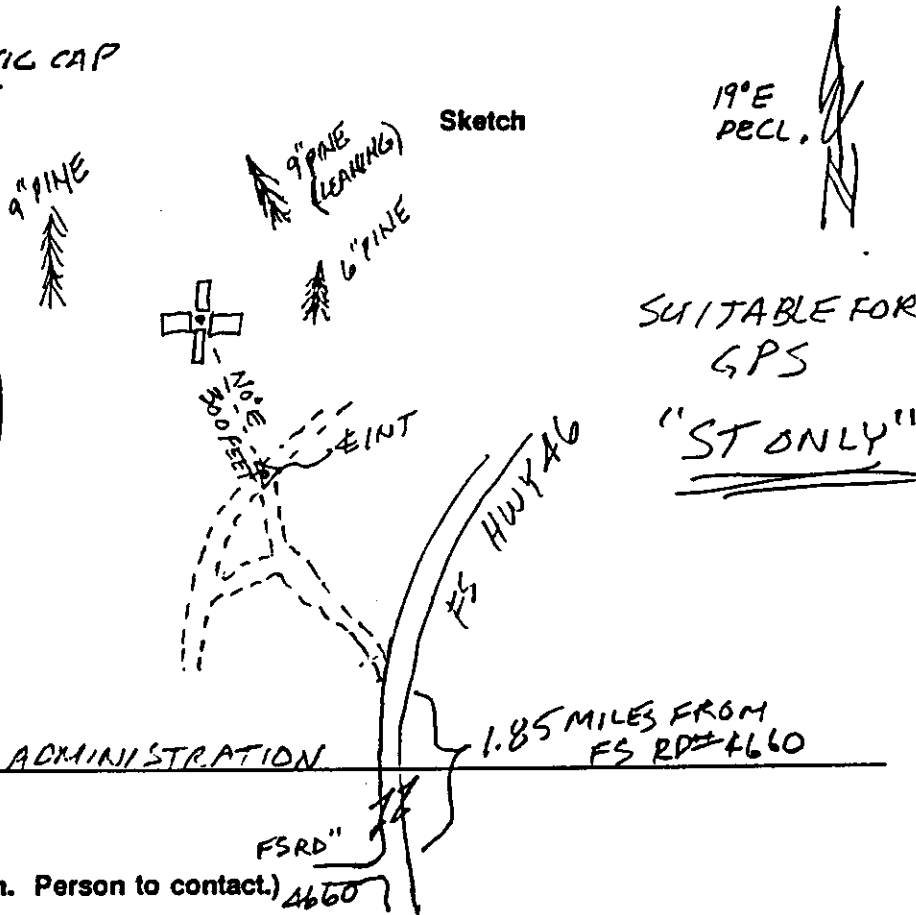
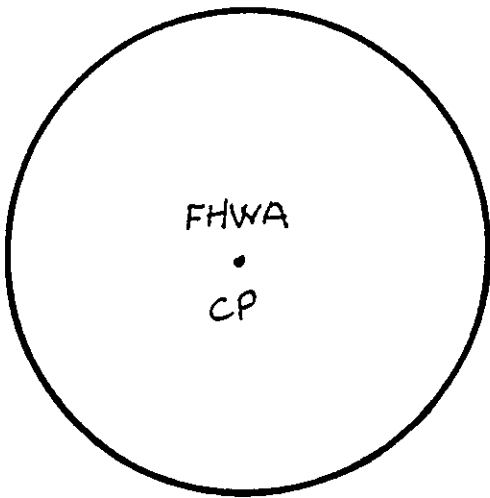
Please print all information.

Station Name: P-25 Quad Name: CRESCENT

State/County: OR 1 KLAMATH Year Established: 1991

SYKES Year Recovered: _____
Last Name

SET 1/2" X 24" IR W/ YELLOW PLASTIC CAP
FLUSH
Monument Stamped



SUITABLE FOR
GPS
"ST ONLY"

Agency: FEDERAL HIGHWAY ADMINISTRATION
FHAX0006

Directions: (How to reach the location. Person to contact.) 4660

FROM THE INT OF HWY 61 & FS HWY 46, GO NORTH 5.1 MILES ON FS HWY
46 TO DIRT RD ON LEFT @ PC OF CURVE, TURN LT & GO 0.15 MILES TO
"T" INT, FROM THE INT @ THE NORTH END OF THE ISLAND GO NORTH
0° EAST 300' TO STATION.

6" PINE N80°E 358, 9" PINE (LEANING) N37°E 46[±], 9" PINE N84°W 53:

Recovery P. P. L. 17-3-91
Date

GPS STATION DATA SHEET

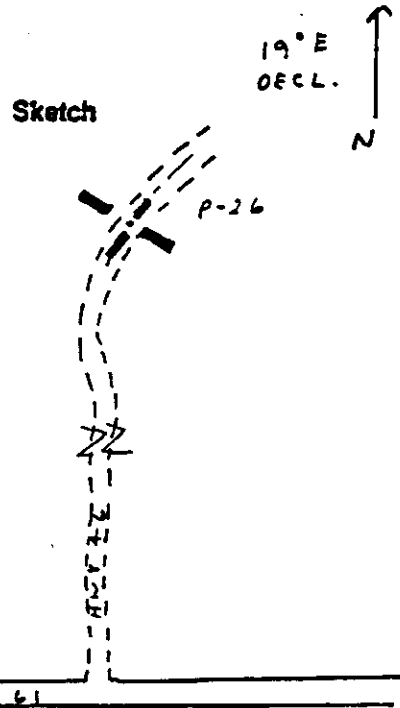
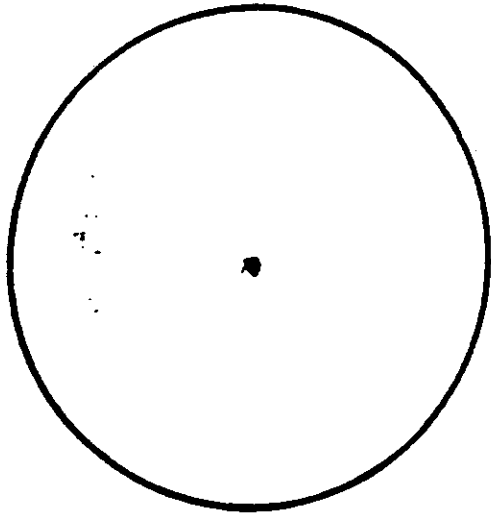
Please print all information.

Station Name: P-26 Quad Name: CRESCENT

State/County: OR 1 KLANATH Year Established: 1991

SYKES Year Recovered: _____
Last Name

SET RAMSET NAIL AND SHINER.
SET FLUSH @ C/L ROAD STRIPE
Monument Stamped



Agency: FEDERAL HIGHWAY ADMINISTRATION

Directions: (How to reach the location. Person to contact.)

FROM INT OF HWY 61 & FS HWY 46, GO NORTH 6.05 MILES
TO STATION @ C/L ROAD STRIPE

P 11

GPS STATION DATA SHEET

Please print all information.

Station Name: P-27

Quad Name: CRESCENT

State/County: OR / KLAMATH

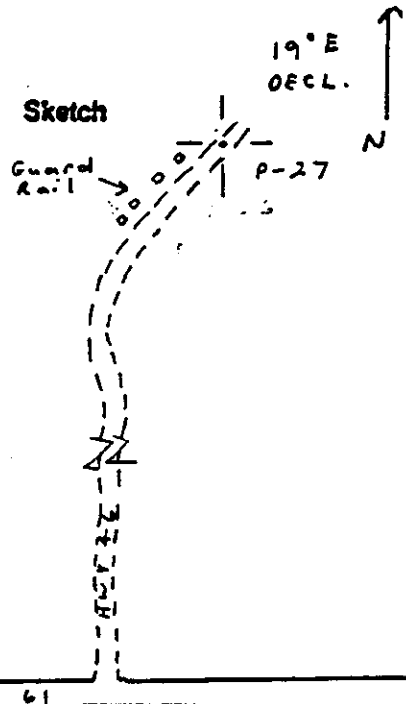
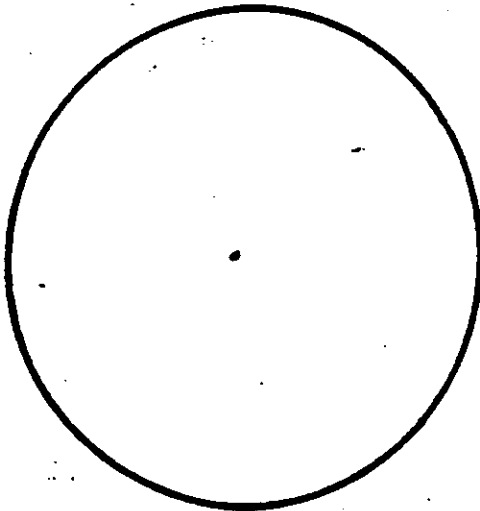
Year Established: 1991

SYKES
Last Name

Year Recovered: _____

P.K. NAIL ON EASTERLY FOG STRIPE

Monument Stamped



Agency: FEDERAL HIGHWAY ADMINISTRATION

Directions: (How to reach the location. Person to contact.)

FROM INT OF HWY 61 S' FS HWY 46 GO NORTH 6.2 MILES
ID STATION, ± 100 FT. NORTH OF NORTH END OF A
GUARD RAIL.

GPS STATION DATA SHEET

Please print all information.

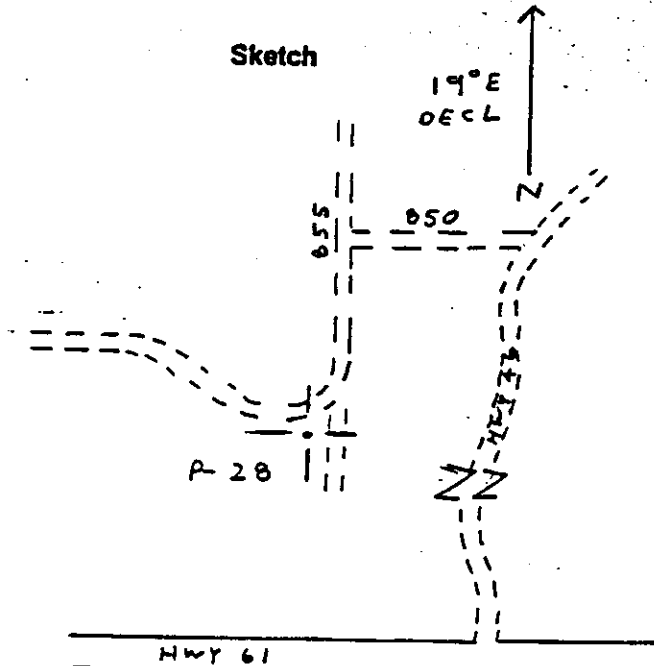
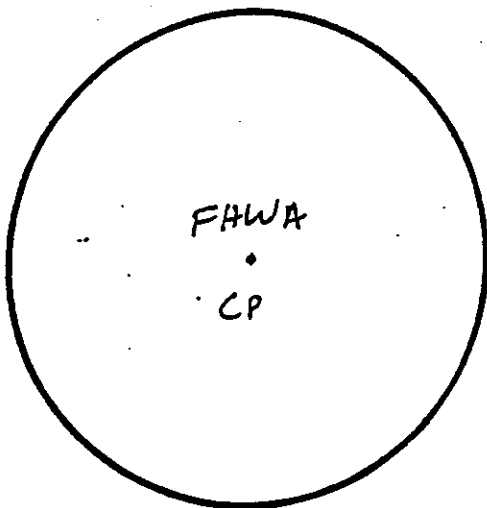
Station Name: P-28 Quad Name: CRESCENT

State/County: OR 1 KLAMATH Year Established: 1991

SYKES Year Recovered: _____
Last Name

SET 1/2" x 24" IR FLUSH

Monument Stamped



Agency: FEDERAL HIGHWAY ADMINISTRATION
FHAX0006

Directions: (How to reach the location. Person to contact.)

FROM INT OF HWY 61 & FS HWY 46, GO NORTH 7.55 MILES
TO FS RD # 850, TURN LT & GO 0.25 MILES TO FS RD # 855,
TURN LT & GO 1.3 MILES TO THE STATION.

GPS STATION DATA SHEET

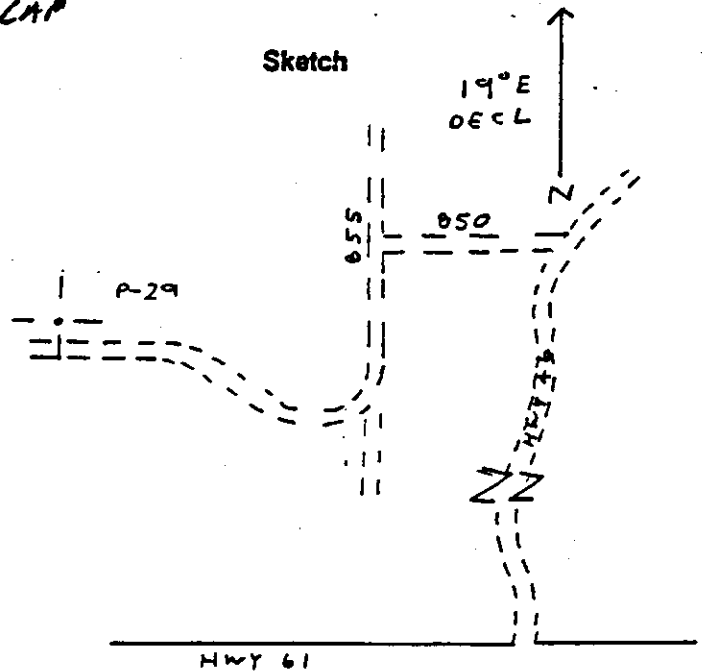
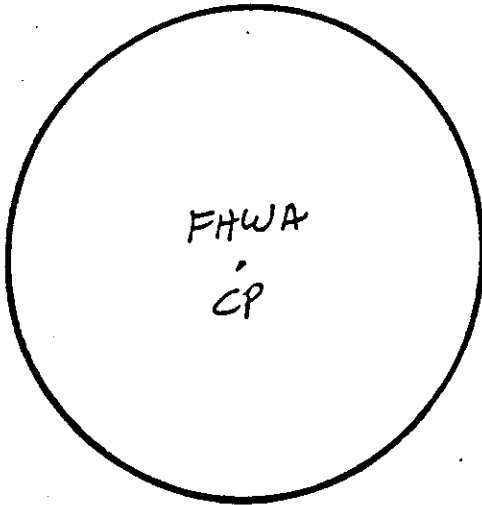
Please print all information.

Station Name: P-29 Quad Name: CRESCENT

State/County: OR 1 KLAMATH Year Established: 1991

SYKES Year Recovered: _____
Last Name

SET 1/2" x 24" IR W/ YELLOW PLASTIC CAP
Monument Stamped



Agency: FEDERAL HIGHWAY ADMINISTRATION
FHAX0006

Directions: (How to reach the location. Person to contact.)

FROM INT OF HWY 61 & FS HWY 46, GO NORTH 7.55 MILES,
TO FS RD # 850, TURN LT & GO 0.25 MILES TO FS RD # 855,
TURN LT & GO 1.3 MILES TO 90° TURN TO THE RIGHT, GO
0.3 MILES TO STATION.

*CASCADE LAKES
HIGHWAY*

*LOOP
CLOSURES*

Trimble Loop Closure Utility

LOOP.01

Start Traverse at Station: 0098
 Starting Coords : 43x27'44.94650N 121x41'50.30477W 1337.300

Baseline 1

File Name: 98303103.FIX
 From Station: 0098 To Station: 0030
 Distance Travelled (m): 16867.301
 Current Coords : 43x29' 3.64162N 121x54'12.79073W 1392.156

Baseline 2

File Name: 30073103.FIX
 From Station: 0030 To Station: 0007
 Distance Travelled (m): 18655.749
 Current Coords : 43x29' 4.41932N 121x52'53.28959W 1462.345

Baseline 3

File Name: 07133103.FIX
 From Station: 0007 To Station: 0013
 Distance Travelled (m): 21606.558
 Current Coords : 43x29'57.50344N 121x51' 4.19124W 1359.278

Baseline 4

File Name: 98133102.FIX
 From Station: 0013 To Station: 0098
 Distance Travelled (m): 34711.793
 Current Coords : 43x27'44.94581N 121x41'50.30336W 1337.277

End Traverse at Station: 0098

Distance Travelled (m): 34711.793 Precision (ppm): 1.28
 dx: 0.028 dy: -0.015 dz: -0.031 dh: -0.023
 Ending Coords : 43x27'44.94581N 121x41'50.30336W 1337.277
 Reference Coords: 43x27'44.94650N 121x41'50.30477W 1337.300

Trimble Loop Closure Utility *LOOP.02*

Start Traverse at Station: 0098

Starting Coords : 43x27'44.94650N 121x41'50.30477W 1337.300

Baseline 1

File Name: 98133102.FIX

From Station: 0098 To Station: 0013

Distance Travelled (m): 13105.234

Current Coords : 43x29'57.50412N 121x51' 4.19265W 1359.301

Baseline 2

File Name: 31133102.FIX

From Station: 0013 To Station: 0031

Distance Travelled (m): 16582.204

Current Coords : 43x31'46.83837N 121x51'41.37645W 1390.487

Baseline 3

File Name: 31323115.FIX

From Station: 0031 To Station: 0032

Distance Travelled (m): 22737.322

Current Coords : 43x35' 3.29472N 121x50'54.53152W 1334.641

Baseline 4

File Name: 98323101.FIX

From Station: 0032 To Station: 0098

Distance Travelled (m): 40972.595

Current Coords : 43x27'44.94570N 121x41'50.30371W 1337.312

End Traverse at Station: 0098

Distance Travelled (m): 40972.595 Precision (ppm): 0.88

dx: 0.007 dy: -0.034 dz: -0.010 dh: 0.011

Ending Coords : 43x27'44.94570N 121x41'50.30371W 1337.312

Reference Coords: 43x27'44.94650N 121x41'50.30477W 1337.300

Trimble Loop Closure Utility *LOOP.03*

Start Traverse at Station: 0098

Starting Coords : 43x27'44.94650N 121x41'50.30477W 1337.300

Baseline 1

File Name: 98323101.FIX

From Station: 0098 To Station: 0032

Distance Travelled (m): 18235.274

Current Coords : 43x35' 3.29552N 121x50'54.53258W 1334.629

Baseline 2

File Name: 33323111.FIX

From Station: 0032 To Station: 0033

Distance Travelled (m): 19718.161

Current Coords : 43x35'26.59862N 121x49'56.74741W 1354.097

Baseline 3

File Name: 96333115.FIX

From Station: 0033 To Station: 0096

Distance Travelled (m): 24384.974

Current Coords : 43x35'32.78336N 121x53'24.57183W 1330.567

Baseline 4

File Name: 97963101.FIX

From Station: 0096 To Station: 0097

Distance Travelled (m): 43543.101

Current Coords : 43x40'56.60467N 121x41'15.57649W 1307.218

Baseline 5

File Name: 98973101.FIX

From Station: 0097 To Station: 0098

Distance Travelled (m): 67992.920

Current Coords : 43x27'44.94628N 121x41'50.30457W 1337.285

End Traverse at Station: 0098

Distance Travelled (m): 67992.920 Precision (ppm): 0.25

dx: 0.007 dy: 0.003 dz: -0.015 dh: -0.015

Ending Coords : 43x27'44.94628N 121x41'50.30457W 1337.285

Reference Coords: 43x27'44.94650N 121x41'50.30477W 1337.300

Trimble Loop Closure Utility *LOOP.04*

Start Traverse at Station: 0096

Starting Coords : 43x35'32.77725N 121x53'24.57229W 1330.685

Baseline 1

File Name: 96333115.FIX

From Station: 0096 To Station: 0033

Distance Travelled (m): 4666.813

Current Coords : 43x35'26.59250N 121x49'56.74788W 1354.215

Baseline 2

File Name: 33323111.FIX

From Station: 0033 To Station: 0032

Distance Travelled (m): 6149.700

Current Coords : 43x35' 3.28940N 121x50'54.53305W 1334.748

Baseline 3

File Name: 32963111.FIX

From Station: 0032 To Station: 0096

Distance Travelled (m): 9637.121

Current Coords : 43x35'32.77692N 121x53'24.57259W 1330.669

End Traverse at Station: 0096

Distance Travelled (m): 9637.121 Precision (ppm): 2.16

dx: -0.003 dy: 0.008 dz: -0.019 dh: -0.017

Ending Coords : 43x35'32.77692N 121x53'24.57259W 1330.669

Reference Coords: 43x35'32.77725N 121x53'24.57229W 1330.685

Trimble Loop Closure Utility *LOOP.05*

Start Traverse at Station: 0099

Starting Coords : 43x31'48.72588N 121x56'37.59577W 1433.203

Baseline 1

File Name: 99963104.FIX

From Station: 0099 To Station: 0096

Distance Travelled (m): 8162.042

Current Coords : 43x35'32.77741N 121x53'24.57265W 1330.751

Baseline 2

File Name: 32963111.FIX

From Station: 0096 To Station: 0032

Distance Travelled (m): 11649.463

Current Coords : 43x35' 3.28990N 121x50'54.53311W 1334.831

Baseline 3

File Name: 99323104.FIX

From Station: 0032 To Station: 0099

Distance Travelled (m): 21416.481

Current Coords : 43x31'48.72587N 121x56'37.59481W 1433.186

End Traverse at Station: 0099

Distance Travelled (m): 21416.481 Precision (ppm): 1.30

dx: 0.025 dy: -0.001 dz: -0.012 dh: -0.017

Ending Coords : 43x31'48.72587N 121x56'37.59481W 1433.186

Reference Coords: 43x31'48.72588N 121x56'37.59577W 1433.203

Trimble Loop Closure Utility *LOOP.06*

Start Traverse at Station: 0099
Starting Coords : 43x31'48.72588N 121x56'37.59577W 1433.203

Baseline 1

File Name: 99323104.FIX
From Station: 0099 To Station: 0032
Distance Travelled (m): 9767.018
Current Coords : 43x35' 3.28991N 121x50'54.53408W 1334.848

Baseline 2

File Name: 31323115.FIX
From Station: 0032 To Station: 0031
Distance Travelled (m): 15922.136
Current Coords : 43x31'46.83356N 121x51'41.37900W 1390.694

Baseline 3

File Name: 99313104.FIX
From Station: 0031 To Station: 0099
Distance Travelled (m): 22575.449
Current Coords : 43x31'48.72560N 121x56'37.59623W 1433.256

End Traverse at Station: 0099
Distance Travelled (m): 22575.449 Precision (ppm): 2.41
dx: -0.032 dy: -0.032 dz: 0.030 dh: 0.053
Ending Coords : 43x31'48.72560N 121x56'37.59623W 1433.256
Reference Coords: 43x31'48.72588N 121x56'37.59577W 1433.203

Trimble Loop Closure Utility *LOOP 07*

Start Traverse at Station: 0099
Starting Coords : 43x31'48.72588N 121x56'37.59577W 1433.203

Baseline 1
File Name: 99313104.FIX
From Station: 0099 To Station: 0031
Distance Travelled (m): 6653.313
Current Coords : 43x31'46.83384N 121x51'41.37855W 1390.642

Baseline 2
File Name: 06313112.FIX
From Station: 0031 To Station: 0006
Distance Travelled (m): 11607.850
Current Coords : 43x29'42.17308N 121x54' 0.14955W 1529.696

Baseline 3
File Name: 99063113.FIX
From Station: 0006 To Station: 0099
Distance Travelled (m): 16878.776
Current Coords : 43x31'48.72607N 121x56'37.59624W 1433.253

End Traverse at Station: 0099
Distance Travelled (m): 16878.776 Precision (ppm): 3.07
dx: -0.026 dy: -0.022 dz: 0.039 dh: 0.050
Ending Coords : 43x31'48.72607N 121x56'37.59624W 1433.253
Reference Coords: 43x31'48.72588N 121x56'37.59577W 1433.203

Trimble Loop Closure Utility *LOOP.08*

Start Traverse at Station: 0006

Starting Coords : 43x29'42.17309N 121x54' 0.14919W 1529.626

Baseline 1

File Name: 06313112.FIX

From Station: 0006

To Station: 0031

Distance Travelled (m): 4954.537

Current Coords : 43x31'46.83385N 121x51'41.37818W 1330.572

Baseline 2

File Name: 31133102.FIX

From Station: 0031

To Station: 0013

Distance Travelled (m): 8431.507

Current Coords : 43x29'57.49960N 121x51' 4.19438W 1359.385

Baseline 3

File Name: 06133113.FIX

From Station: 0013

To Station: 0006

Distance Travelled (m): 12417.372

Current Coords : 43x29'42.17367N 121x54' 0.14895W 1529.589

End Traverse at Station: 0006

Distance Travelled (m): 12417.372 Precision (ppm): 3.29

dx: 0.025 dy: 0.030 dz: -0.012 dh: -0.036

Ending Coords : 43x29'42.17367N 121x54' 0.14895W 1529.589

Reference Coords: 43x29'42.17309N 121x54' 0.14919W 1529.626

Trimble Loop Closure Utility *LOOP.09*

Start Traverse at Station: 0099
Starting Coords : 43x31'48.72588N 121x56'37.59577W 1433.203

Baseline 1

File Name: 99063113.FIX
From Station: 0099 To Station: 0006
Distance Travelled (m): 5270.926
Current Coords : 43x29'42.17288N 121x54' 0.14909W 1529.645

Baseline 2

File Name: 03063114.FIX
From Station: 0006 To Station: 0003
Distance Travelled (m): 6669.676
Current Coords : 43x29'30.26358N 121x54'59.93995W 1403.865

Baseline 3

File Name: 99033121.FIX
From Station: 0003 To Station: 0099
Distance Travelled (m): 11474.144
Current Coords : 43x31'48.72597N 121x56'37.59546W 1433.229

End Traverse at Station: 0099

Distance Travelled (m): 11474.144 Precision (ppm): 2.36
dx: -0.003 dy: -0.018 dz: 0.020 dh: 0.026
Ending Coords : 43x31'48.72597N 121x56'37.59546W 1433.229
Reference Coords: 43x31'48.72588N 121x56'37.59577W 1433.203

Trimble Loop Closure Utility *LOOP.10*

Start Traverse at Station: 0006

Starting Coords : 43x29'42.17309N 121x54' 0.14919W 1529.626

Baseline 1

File Name: 06133113.FIX

From Station: 0006 To Station: 0013

Distance Travelled (m): 3985.866

Current Coords : 43x29'57.49902N 121x51' 4.19462W 1359.422

Baseline 2

File Name: 07133103.FIX

From Station: 0013 To Station: 0007

Distance Travelled (m): 6936.675

Current Coords : 43x29' 4.41491N 121x52'53.29297W 1462.489

Baseline 3

File Name: 06073114.FIX

From Station: 0007 To Station: 0006

Distance Travelled (m): 8839.506

Current Coords : 43x29'42.17320N 121x54' 0.14891W 1529.635

End Traverse at Station: 0006

Distance Travelled (m): 8839.506 Precision (ppm): 1.33

dx: 0.003 dy: -0.007 dz: 0.009 dh: 0.009

Ending Coords : 43x29'42.17320N 121x54' 0.14891W 1529.635

Reference Coords: 43x29'42.17309N 121x54' 0.14919W 1529.626

Trimble Loop Closure Utility *LOOP 11*

Start Traverse at Station: 0003

Starting Coords : 43x29'30.26374N 121x54'59.94023W 1403.882

Baseline 1

File Name: 03063114.FIX

From Station: 0003 To Station: 0006

Distance Travelled (m): 1398.750

Current Coords : 43x29'42.17304N 121x54' 0.14937W 1529.662

Baseline 2

File Name: 06073114.FIX

From Station: 0006 To Station: 0007

Distance Travelled (m): 3301.581

Current Coords : 43x29' 4.41475N 121x52'53.29343W 1462.516

Baseline 3

File Name: 30073103.FIX

From Station: 0007 To Station: 0030

Distance Travelled (m): 5090.030

Current Coords : 43x29' 3.63705N 121x54'12.79457W 1392.326

Baseline 4

File Name: 03303114.FIX

From Station: 0030 To Station: 0003

Distance Travelled (m): 6431.109

Current Coords : 43x29'30.26406N 121x54'59.94071W 1403.821

End Traverse at Station: 0003

Distance Travelled (m): 6431.109 Precision (ppm): 9.77

dx: 0.018 dy: 0.049 dz: -0.035 dh: -0.061

Ending Coords : 43x29'30.26406N 121x54'59.94071W 1403.821

Reference Coords: 43x29'30.26374N 121x54'59.94023W 1403.882

Trimble Loop Closure Utility *LOOP.12*

Start Traverse at Station: 0099

Starting Coords : 43x31'48.72588N 121x56'37.59577W 1433.203

Baseline 1

File Name: 99033121.FIX

From Station: 0099 To Station: 0003

Distance Travelled (m): 4804.467

Current Coords : 43x29'30.26349N 121x54'59.94026W 1403.839

Baseline 2

File Name: 03303114.FIX

From Station: 0003 To Station: 0030

Distance Travelled (m): 6145.546

Current Coords : 43x29' 3.63648N 121x54'12.79412W 1392.345

Baseline 3

File Name: 95303122.FIX

From Station: 0030 To Station: 0095

Distance Travelled (m): 12091.411

Current Coords : 43x30'35.65092N 121x58' 5.23625W 1435.576

Baseline 4

File Name: 99953122.FIX

From Station: 0095 To Station: 0099

Distance Travelled (m): 15085.459

Current Coords : 43x31'48.72684N 121x56'37.59531W 1433.226

End Traverse at Station: 0099

Distance Travelled (m): 15085.459 Precision (ppm): 2.56

dx: 0.011 dy: -0.002 dz: 0.037 dh: 0.022

Ending Coords : 43x31'48.72684N 121x56'37.59531W 1433.226

Reference Coords: 43x31'48.72588N 121x56'37.59577W 1433.203