

SURVEY FOR
OREGON STATE HIGHWAY DIVISION

JOHNDAY HIGHWAY • 5

AUSTIN JCT. - BAKER CO. LINE

KEY I.D. NO. 04524

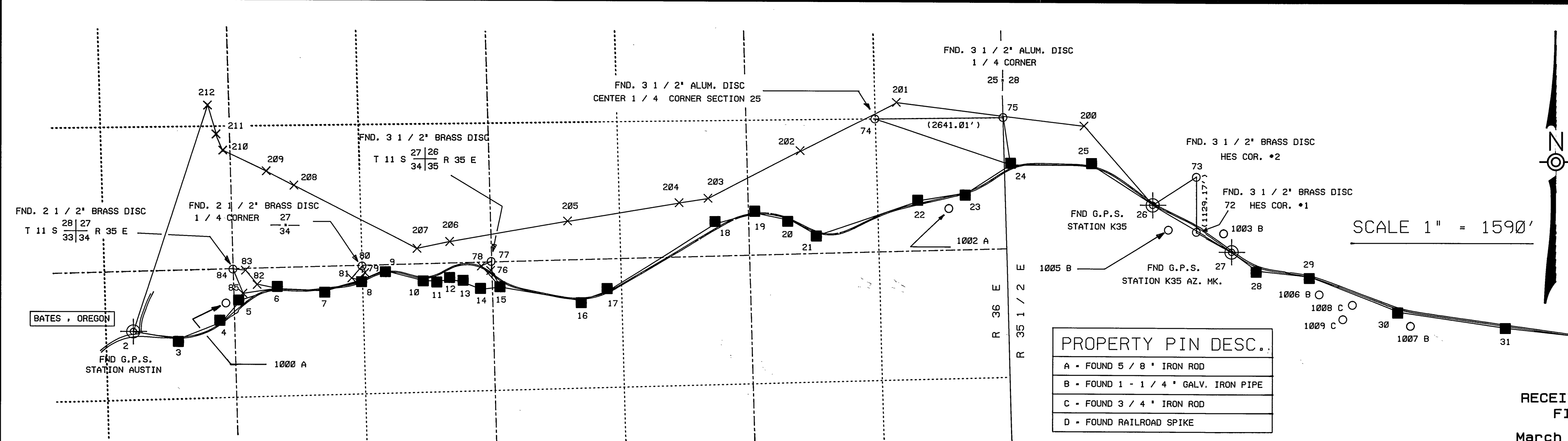
DATE OF SURVEY : NOVEMBER 15 , 1991

SHEET NO.

1

TOTAL SHEETS

1



NARRATIVE OF SURVEY

THIS SURVEY IS FOR THE ESTABLISHMENT OF HORIZONTAL CONTROL FOR THE AUSTIN JCT. - BAKER CO. LINE PROJECT LOCATED ON THE JOHNDAY HIGHWAY (HWY NO. 5) BETWEEN MP. 192.53 AND MP. 200.00.

G.P.S. CONTROL WAS ESTABLISHED FOR BASIS OF BEARING AND TO INHANCE THE HIGHWAY DIVISION'S SURVEY CONTROL NETWORK. THE G.P.S. POINTS SET FOR THIS PROJECT (AUSTIN , K35 , K35 AZ. MK. , SQUAW , SQUAW AZ. MK.) ARE PART OF A G.P.S. SURVEY WHICH IS CURRENTLY IN THE PROCESS OF BEING FILLED WITH THE GRANT COUNTY SURVEYOR'S OFFICE IN JOHNDAY , OREGON. THE G.P.S. SURVEY WAS PERFORMED BY EAGLE G.P.S. AND WILL BE FILING THE SURVEY AT THE REQUEST OF THE OREGON STATE HIGHWAY DIVISION.

HORIZONTAL CONTROL TRAVERSES WERE RUN FROM G.P.S. STATION K35 WITH G.P.S. STATION K35 AZ. MARK AS A BACKSIGHT. THROUGH G.P.S. STATION AUSTIN AND RETURNED TO G.P.S. STATION K35 AND RESPECTIVE AZ. MARK. (LINEAR MISCLURE 1:20,004 AND ANGULAR MISCLURE -00-00-28.5).

THE SECOND CONTROL TRAVERSE WAS RUN FROM G.P.S. STATION K35 TO G.P.S. STATION SQUAW USING THEIR RESPECTIVE AZ. MARKS (LINEAR MISCLURE 1:21,889 AND ANGULAR MISCLURE -00-00-28.8).

THE BEARINGS FOR THESE TRAVERSES ARE BASED ON OREGON NORTH GRID.

SECTION CORNERS WERE TRAVERSED THROUGH AND TIED TO THE PRIMARY TRAVERSES. THESE WERE:

A BRASS DISC STAMPED " T 12 S , R 36 E , 5/6/7/8 , 1989 " B.L.M. CORNER (LINEAR MISCLURE 1:211,893 AND ANGULAR MISCLURE -00-00-01.8).

A ALUM. DISC STAMPED " C 1 / 4 , S 25 , T 11 S , R 35 E , 1985 , PLS 699 " AND A ALUM. DISC STAMPED " T 11 S , R 35 E , R 35 1 / 2 E , 1 / 4 , S 25 , S 28 , 1985 , PLS 699 " (LINEAR MISCLURE 1:269,355 AND ANGULAR MISCLURE -00-00-06.7).

THIS TRAVERSE TIES A SECTION BREAK-DOWN PERFORMED BY LELAND MYERS, PLS 699, FILED WITH THE GRANT COUNTY SURVEYOR'S OFFICE IN JOHNDAY, OREGON, MAP OF SURVEY NO. 901 FILED OCTOBER 25, 1985.

A BRASS DISC STAMPED " T 11 S , R 35 E , S 28 , S 27 , S 34 , S 35 , 1989 , LS 644 " (LINEAR MISCLURE 1:72,147 AND ANGULAR MISCLURE -00-00-02.7).

A BRASS DISC STAMPED " T 11 S , R 35 E , 1 / 4 , S 27 , S 34 , 1989 , LS 1020 " (LINEAR MISCLURE 1:45,182 AND ANGULAR MISCLURE -00-00-07.2).

A BRASS DISC STAMPED " T 11 S , R 35 E , S 27 , S 28 , S 33 , S 34 , 1973 , OPLS 598 " (LINEAR MISCLURE 1:46,886 AND ANGULAR MISCLURE -00-00-04.4).

IN ADDITION TO SECTION CORNER INFORMATION, A TRAVERSE WAS RUN TO TIE BRASS DISC MONUMENTATION OF A HOMESTEAD ENTRY SURVEY, HES NO. 89. TWO BRASS DISC'S STAMPED " T 11 S , R 35 1 / 2 E , HES 89 , 1985 , PLS 699 " , " COR 1 " AND " COR 2 " (LINEAR MISCLURE 1:478,101 AND ANGULAR MISCLURE -00-00-01.1).

THIS SURVEY WAS ALSO PERFORMED BY LELAND MYERS, PLS 699, AND FILED WITH THE GRANT COUNTY SURVEYOR'S OFFICE IN JOHNDAY, OREGON, MAP OF SURVEY NO. 900.

THE COORDINATES FOR THESE POSITIONS WERE CALCULATED USING STATE PLANE COORDINATES AND THEN REDUCED TO 1983 / 1991 LOCAL DATUM PLANE COORDINATES (LPD FACTOR SPC/0.999728428).

THE PROPERTY PINS WERE TIED BY THE USE OF DOUBLE TIES FROM CONTROL TRAVERSE POINTS.

THE TRAVERSES WERE ADJUSTED BY COMPASS RULE ADJUSTMENT.

EQUIPMENT USED FOR TRAVERSING , WILD T-2000 THEODOLITE , D15 E.D.M. , AND A GRE-3 DATA COLLECTOR.

PROPERTY PIN DESC..

A - FOUND 5 / 8 " IRON ROD
B - FOUND 1 - 1 / 4 " GALV. IRON PIPE
C - FOUND 3 / 4 " IRON ROD
D - FOUND RAILROAD SPIKE

RECEIVED AND FILED
March 17, 1992
OFFICE OF COUNTY SURVEYOR
Robert D. Baggett
ATTENT: *Steven D. Fullerton*

- LEGEND
- FOUND MONUMENT
 - SET 5 / 8 " I.R. W/ALUM. CAP
 - OREGON STATE HWY. DIV. TRAV.
 - × SET HUB & TACK
 - ⊕ FOUND G.P.S. STATION
 - SET P.K. NAIL

LPD COORDINATE TABLE

TRAV. PT.	NORTHING	EASTING	BEARING	DISTANCE	TRAV. PT.	NORTHING	EASTING	BEARING	DISTANCE	TRAV. PT.	NORTHING	EASTING	BEARING	DISTANCE
2	337284.780	8725298.865	S 80-09-35 E	932.38	36	334984.510	8758398.777	S 36-36-35.8 E	440.61	206	339157.856	8731786.896	S 78-10-34.6 W	685.11
3	337125.433	8726217.528	N 67-57-22.5 E	943.69	37	334550.827	8758661.540	S 47-25-31.0 E	614.00	207	339017.475	8731116.320	N 63-07-17.7 W	2832.82
4	337479.615	8727092.234	N 48-32-35.6 E	606.34	38	334135.428	8759113.684	S 27-43-19.6 E	431.77	208	340298.187	8728589.540	N 62-51-53.7 W	640.20
5	337940.385	8727486.370	N 71-51-00.2 E	773.13	39	333753.215	8759314.538	S 68-03-06.0 E	846.61	209	340590.174	8728019.807	N 64-37-58.3 W	985.33
6	338181.220	8728221.034	S 87-51-02.8 E	1001.22	40	333436.778	8760099.787	S 31-58-45.3 E	773.02	210	341012.306	8727129.483	N 22-59-35.3 W	357.34
7	338143.668	8729221.552	N 74-01-07.5 E	767.15	41	332781.070	8760509.188	S 12-24-50.1 E	628.45	211	341341.258	8726989.898	N 16-34-10.4 W	616.90
8	338354.882	8729959.056	N 65-25-06.9 E	509.49	42	332167.314	8760644.287	S 13-58-13.4 W	1121.35	212	341932.538	8726813.971	S 18-03-19 W	4888.48
9	338566.825	8730422.376	S 75-21-56.4 E	856.63	43	331079.136	8760373.571	S 23-52-54.2 E	690.84	2	337284.780	8725298.865		
10	338350.398	8731251.214	S 88-38-57.7 E	278.13	44	330447.442	8760653.258	S 68-35-44.6 E	1256.59	52	327544.917	8768372.940	N 47-23-10.9 E	1162.20
11	338343.843	8731529.267	N 82-23-41.7 E	276.21	45	329988.854	8761823.181	N 87-55-35.4 E	1048.98	68	328331.789	8769226.248	S 23-39-48.6 W	1338.28
12	338380.397	8731803.843	S 78-23-37.6 E	221.18	46	330826.004	8762871.389	S 58-14-17.1 E	1258.69	69	327186.036	8768691.111	N 35-56-26.2 W	542.09
13	338335.899	8732019.701	S 68-43-04.6 E	438.07	47	329364.242	8763941.581	S 54-32-21.4 E	1280.41	52	327544.917	8768372.940	N 61-54-24.3 W	851.68
14	338176.898	8732427.894	N 83-04-27.8 E	395.33	48	328621.419	8764984.492	S 85-42-14.0 E	614.75	27	339007.048	8747889.891	N 00-02-16.4 W	1129.35
15	338224.568	8732820.342	S 80-32-53.5 E	1688.74	49	328575.367	8765597.519	S 88-11-19.6 E	482.88	72	339488.112	8747138.552	S 57-09-10.5 W	1067.04
16	337947.247	8734486.152	N 69-32-17.6 E	601.45	50	328568.105	8766080.157	S 52-44-28.1 E	517.66	73	340537.458	8747137.806	N 08-02-16.4 W	1129.35
17	338157.582	8735849.653	N 57-43-48.0 E	2611.70	51	327858.320	8767968.927	S 71-31-34.0 E	2630.73	26	339588.698	8746241.365		
18	339551.915	8737257.955	N 74-29-23.7 E	823.95	52	327544.917	8768372.940			24	340771.776	8743309.666	N 71-48-58.8 W	2944.32
19	339772.247	8738051.903	S 78-31-59.9 E	701.61	53	326711.316	8770868.101			74	341697.181	8740514.525	N 09-06-03.2 E	2641.03
20	339632.768	8738739.509	S 68-18-09.8 E	689.75	48	328621.419	8764984.492	N 23-18-03.8 W	462.47	75	341738.543	8743155.230	S 09-04-33.7 E	979.02
21	339299.610	8739328.515	N 71-03-45.5 E	2197.44	54	329046.171	8764801.556	N 35-02-26.4 W	1111.79	24	340771.776	8743309.666		
22	340812.756	8741399.019	N 80-42-00.7 E	993.72	55	329556.447	8764163.210	N 46-43-13.5 W	606.89	15	338224.568	8732820.342	N 28-53-52.0 E	393.14
23	340173.343	8742379.681	N 57-14-21.3 E	1185.89	56	330371.957	8763721.697	N 68-00-18.2 W	549.07	76	338568.754	8732630.359	N 02-14-09.2 E	185.53
24	340771.776	8743309.666	S 89-57-57.7 E	1661.08	57	330577.597	8763212.861	N 57-47-31.3 W	626.74	77	338754.141	8732637.597	S 64-57-48.1 W	222.23
25	340770.791	8744978.743	S 57-24-58.1 E	1587.97	58	330911.646	8762682.564	N 62-53-16.4 W	1279.37	78	338668.093	8732436.246	S 41-24-34.5 E	580.70
26	339958.698	8746241.365	S 68-00-12.0 E	1903.49	59	331494.696	8761543.778	S 75-09-16.8 W	387.01	15	338224.568	8732820.342		
27	339007.048	8747889.891	S 54-04-38.5 E	643.87	60	331416.837	8761247.016	S 42-18-17.9 W	1833.19	8	338354.882	8729959.056	N 28-33-36.4 E	180.47
28	338629.297	8748411.299	S 83-48-24.5 E	1896.41	61	330651.920	8760551.682	N 22-37-21.6 W	462.83	79	338513.395	8730045.337	N 21-47-58.1 W	153.31
29	338508.479	8749581.031	S 68-28-47.7 E	1979.08	43	331079.136	8760373.571			80	338655.738	8729988.488	S 39-41-14.9 W	330.86
30	337781.236	8751342.208	S 81-39-24.0 E	2218.69	26	339958.698	8746241.365			81	338481.129	8729777.119	S 75-44-16.3 E	187.72
31	337459.294	8753537.417	S 83-34-18.8 E	1916.84	220	341571.578	8744826.799	N 41-15-07.8 W	2145.32	9	338354.882	8729959.056		
32	337244.691	8755442.284	S 80-42-08.9 E	2529.42	201	342037.911	8748959.218	N 83-07-29.1 W	3895.59	6	338181.220	8728221.034	N 78-23-35.3 W	392.22
33	336836.034	8757938.395	S 51-21-43.1 E	622.14	202	341039.227	8738983.188	S 63-11-16.8 W	2214.06	82	338260.133	8727836.316	N 38-55-09.2 W	382.58
34	336447.574	8758424.349	S 15-29-28.3 E	639.66	203	340868.620	8737090.813	S 81-02-27.0 W	682.05	83	338557.793	8727596.485	N 84-53-16.6 W	257.30
35	335831.154	8758955.195	S 11-58-03.7 W	947.23	204	339968.863	8736496.110	S 80-34-03.2 W	2319.55	84	338580.719	8727340.212	S 22-21-41.9 E	543.78
36	334984.510	8758398.777			205	339586.725	8734287.924	S 79-57-16.7 W	2458.72	85	338077.835	8727547.892	N 81-16-43.0 E	681.83
					206	339157.856	8731786.896			6	338181.220	8728221.034		

PROPERTY CORNER TABLE

POINT NO.	NORTHING	EASTING	BEARING	DIST.
5	337940.385	8727486.370	S 47-47-57 W	170.31
1000	337825.979	8727360.282		
39	333753.215	8759314.538	S 01-24-31 W	25.63
1001	333727.596	8759313.988		
23	340173.343	8742379.681	S 15-15-30 W	107.02
1002	340070.897	8742351.517		
27	339007.048	8747889.891	N 51-18-17 W	29.74
1003	339025.638	8747886.683		
72	339488.112	8747138.552	N 64-04-27 W	36.03
1005	339423.865	8747186.147		
29	338508.479	8749581.031	S 10-20-16 E	96.43
1006	338413.618	8749518.335		
29	338508.479	8749581.031	S 64-09-24 E	81.21
1007	337745.935	8751415.297		
29	338508.479	8749581.031	S 68-29-40 E	450.70
1008	338286.586	8749893.276		
29	338508.479	8749581.031	S 53-49-41 E	462.01
1009	338235.795	8749873.988		
38	334135.428	8759113.984	S 15-15-56 W	119.29
1010	334028.347	8759082.276		
57	338577.597	8763212.861	N 46-24-07 W	115.00
3000	338656.899	8763129.580		
35	335831.154	8758955.195	S 14-46-47 E	141.88
3001	335693.972	8758631.388		
36	334984.510	8758398.777	N 03-03-37 W	241.56
3002	335145.729	8758385.881		
36	334984.510	8758398.777	N 17-35-02 E	237.93
3003	335131.327	87589470.658		
39	333753.215	8759314.538	N 14-18-29 W	145.73
3006	333894.428	8759278.524		
39	333753.215	8759314.538	N 55-04-28 W	141.33
3007	333832.915	8759197.824		