Easterling & Associates, In

ENGINEERING APPENDIX

MARIPOSA BASIN REGIONAL ATHLETIC COMPLEX

FEASIBILITY STUDY

December 1988

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HYDROLOGY SECTION

ENGINEERING APPENDIX

MARIPOSA BASIN REGIONAL ATHLETIC COMPLEX

FEASIBILITY STUDY

Prepared For:

City of Albuquerque
Parks and Recreation Department
Post Office Box 1293
Albuquerque, New Mexico 87103

Prepared By:

Easterling & Associates, Inc.
5643 Paradise Boulevard, NW
Albuquerque, New Mexico 87114

Under Contract With:

A. Wayne Smith & Associates
610 Gold, SW - Suite 216
Albuquerque, New Mexico 87102

December 1988

MARIPOSA BASIN MASTER PLAN
100 YEAR - 6 HOUR RAINFALL
EXISTING WITH NO IMPROVEMENTS

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD 6-HOUR	24-HOUR	72-HOUR	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
HYDROGRAPH AT	B-1	5.	1.67	3.	3.	3.	.58		
HYDROGRAPH AT	B-2	3.	1.27	1.	1.	1.	.19		
2 COMBINED AT	AP-3	8.	1.57	4.	4.	4.	.78		
ROUTED TO	C-6A	7.	1.97	3.	3.	3.	.78	5850.06	1.93
ROUTED TO	C-6B	7.	2.33	3.	3.	3.	.78	5816.02	2.23
HYDROGRAPH AT	B-4	15.	1.43	6.	6.	6.	1.01		
ROUTED TO	RR-1	0.	.03	0.	0.	0.	1.01	5848.38	6.00
ROUTED TO	C-6F	0.	.03	0.	0.	0.	1.01	5852.00	.00
HYDROGRAPH AT	B-5	25.	1.23	7.	7.	7.	.60		
ROUTED TO	C-6C	18.	2.20	6.	6.	6.	.60	5860.04	2.13
ROUTED TO	C-6D	17.	2.50	6.	6.	6.	.60	5842.06	2.50
ROUTED TO	C-6E	16.	2.80	6.	6.	6.	.60	5816.08	2.73
HYDROGRAPH AT	B-6	66.	1.60	23.	23.	23.	1.76		
4 COMBINED AT	AP-6	68.	1.63	31.	31.	31.	4.15		
ROUTED TO	RR-2	0.	.03	0.	0.	0.	4.15	5777.55	6.00
ROUTED TO	C-7A	0.	.03	0.	0.	0.	4.15	5760.00	.00
HYDROGRAPH AT	B-7	6.	1.67	2.	2.	2.	.18		
HYDROGRAPH AT	B-8	65.	1.93	25.	25.	25.	.75		
ROUTED TO	C-9A	59.	2.67	24.	24.	24.	.75	5852.26	2.63
ROUTED TO	C-9B	59.	2.90	23.	23.	23.	.75	5836.32	2.90
ROUTED TO	C-9C	57.	3.27	23.	23.	23.	.75	5776.18	3.23
HYDROGRAPH AT	B-9	23.	1.50	7.	7.	7.	.57		
3 COMBINED AT	AP-10	64.	3.27	32.	32.	32.	1.49		
2 COMBINED AT	AP-10	64.	3.27	32.	32.	32.	5.65		
ROUTED TO	C-11A	64.	3.47	32.	32.	32.	5.65	5734.37	3.43
HYDROGRAPH AT	B-11	13.	1.03	3.	3.	3.	.19		

2 COMBINED AT	AP-11	65.	3.47	35.	35.	35.	5.84		
ROUTED TO	C-12A	65.	3.70	34.	34.	34.	5.84	5706.36	3.67
HYDROGRAPH AT	B-12	4.	.87	1.	1.	1.	.06		
2 COMBINED AT	AP-12	65.	3.70	35.	35.	35.	5.89		
HYDROGRAPH AT	B-14	19.	1.27	5.	5.	5.	.40		
ROUTED TO	C-15	19.	1.37	5.	5.	5.	.40	5114.51	1.37
HYDROGRAPH AT	B-15	14.	1.37	4.	4.	4.	.33		
2 COMBINED AT	AP-15	33.	1.37	9.	9.	9.	.72		
ROUTED TO	C-16	33.	1.37	9.	9.	9.	.72	5114.00	1.03
HYDROGRAPH AT	B-16	43.	1.40	13.	13.	13.	1.01		
2 COMBINED AT	AP-16	76.	1.40	23.	23.	23.	1.73		
ROUTED TO	C-17	73.	1.60	22.	22.	22.	1.73	5790.14	1.60
ROUTED TO	C-17A	70.	1.83	22.	22.	22.	1.73	5790.35	1.83
HYDROGRAPH AT	B-17	378.	1.00	65.	65.	65.	.53		
2 COMBINED AT	AP-17	379.	1.00	87.	87.	87.	2.26		
ROUTED TO	C-18A	374.	1.03	87.	87.	87.	2.26	5759.00	1.03
ROUTED TO	C-18B	365.	1.13	86.	86.	86.	2.26	5736.64	1.13
HYDROGRAPH AT	B-18	41.	.83	7.	7.	7.	.20		
2 COMBINED AT	AP-18	394.	1.13	93.	93.	93.	2.47		
HYDROGRAPH AT	B-13	12.	1.10	3.	3.	3.	.20		
2 COMBINED AT	AP-18	405.	1.13	96.	96.	96.	2.67		
ROUTED TO	C-19A	391.	1.37	93.	93.	93.	2.67	5712.68	1.37
HYDROGRAPH AT	B-19	23.	.77	4.	4.	4.	.12		
2 COMBINED AT	AP-19	397.	1.33	97.	97.	97.	2.79		
2 COMBINED AT	AP-20	421.	1.37	131.	131.	131.	8.68		
ROUTED TO	C-21A	410.	1.53	127.	127.	127.	8.68	5657.43	1.53
ROUTED TO	C-22A	408.	1.63	126.	126.	126.	8.68	5601.19	1.63
ROUTED TO	C-22B	407.	1.70	124.	124.	124.	8.68	5501.22	1.70
HYDROGRAPH AT	B-21	88.	.97	17.	17.	17.	.42		
ROUTED TO	C-22A	85.	1.13	16.	16.	16.	.42	5600.38	1.10
ROUTED TO	C-22B	83.	1.27	16.	16.	16.	.42	5500.35	1.27
HYDROGRAPH AT	B-22	97.	.90	18.	18.	18.	.58		

2 COMBINED AT	AP-22	149.	1.17	34.	34.	34.	1.00		
2 COMBINED AT	AP-22	479.	1.63	158.	158.	158.	9.68		
HYDROGRAPH AT	B-23	204.	1.00	37.	37.	37.	.26		
ROUTED TO	C-24A	202.	1.10	36.	36.	36.	.26	5116.00	1.10
HYDROGRAPH AT	B-24	422.	1.03	78.	78.	78.	.55		
2 COMBINED AT	AP-24	619.	1.03	115.	115.	115.	.81		
ROUTED TO	RR-4	20.	6.00	14.	14.	14.	.81	5002.88	6.00
HYDROGRAPH AT	B-25	37.	1.90	13.	13.	13.	.23		
ROUTED TO	C-26	35.	2.30	13.	13.	13.	.23	5776.07	2.27
HYDROGRAPH AT	B-26	15.	1.23	4.	4.	4.	.12		
3 COMBINED AT	AP-26	56.	2.27	31.	31.	31.	1.17		
ROUTED TO	RR-5	27.	5.70	5.	5.	5.	1.17	5770.18	5.70
HYDROGRAPH AT	B-27	3.	1.07	1.	1.	1.	.05		
2 COMBINED AT	AP-26	28.	6.00	5.	5.	5.	1.21		
ROUTED TO	C-28A	28.	6.00	4.	4.	4.	1.21	5710.07	6.00
ROUTED TO	C-28B	25.	6.00	2.	2.	2.	1.21	5540.09	6.00
HYDROGRAPH AT	B-28	96.	2.07	38.	38.	38.	.83		
3 COMBINED AT	AP-29	564.	1.67	198.	198.	198.	11.72		
ROUTED TO	C-31A	555.	1.87	191.	191.	191.	11.72	5416.36	1.87
ROUTED TO	C-34A	551.	1.97	187.	187.	187.	11.72	5331.61	1.97
ROUTED TO	C-35A	549.	2.03	185.	185.	185.	11.72	5195.03	2.03
HYDROGRAPH AT	B-31	64.	1.13	14.	14.	14.	.43		
HYDROGRAPH AT	B-30	82.	.97	15.	15.	15.	.35		
HYDROGRAPH AT	B-32	190.	1.40	50.	50.	50.	1.11		
3 COMBINED AT	AP-33	300.	1.23	79.	79.	79.	1.89		
ROUTED TO	C-34A	298.	1.33	78.	78.	78.	1.89	5331.18	1.33
HYDROGRAPH AT	B-34	61.	1.33	16.	16.	16.	.60		
2 COMBINED AT	AP-34	359.	1.33	94.	94.	94.	2.49		
ROUTED TO	C-35A	358.	1.40	93.	93.	93.	2.49	5194.79	1.40
HYDROGRAPH AT	B-35	189.	.57	17.	17.	17.	.13		
2 COMBINED AT	AP-35	370.	1.37	110.	110.	110.	2.62		
2 COMBINED AT	AP-35	757.	1.97	295.	295.	295.	14.34		

HYDROGRAPH AT	B-40	41.	1.23	11.	11.	11.	.61		
HYDROGRAPH AT	B-41	30.	2.77	16.	16.	16.	.61		
2 COMBINED AT	AP-42	46.	1.27	26.	26.	26.	1.23		
ROUTED TO	RR-6	0.	6.00	0.	0.	0.	1.23	5755.72	6.00
ROUTED TO	C-43A	0.	6.00	0.	0.	0.	1.23	5730.00	5.83
HYDROGRAPH AT	B-43	82.	1.43	22.	22.	22.	.49		
2 COMBINED AT	AP-43	82.	1.43	22.	22.	22.	1.72		
ROUTED TO	C-44A	81.	1.53	22.	22.	22.	1.72	5635.13	1.53
ROUTED TO	C-44B	81.	1.63	21.	21.	21.	1.72	5465.01	1.63
HYDROGRAPH AT	B-44	130.	1.53	38.	38.	38.	.85		
2 COMBINED AT	AP-44	209.	1.60	59.	59.	59.	2.57		
HYDROGRAPH AT	B-45	68.	1.03	13.	13.	13.	.24		
ROUTED TO	C-46A	66.	1.23	13.	13.	13.	.24	5480.36	1.23
HYDROGRAPH AT	B-46	35.	.83	5.	5.	5.	.12		
3 COMBINED AT	AP-47	267.	1.47	77.	77.	77.	2.92		
ROUTED TO	C-48A	266.	1.53	76.	76.	76.	2.92	5377.08	1.53
ROUTED TO	C-48B	265.	1.63	75.	75.	75.	2.92	5341.78	1.63
HYDROGRAPH AT	B-48	31.	1.83	11.	11.	11.	.44		
2 COMBINED AT	AP-48	294.	1.67	86.	86.	86.	3.36		
HYDROGRAPH AT	B-37	43.	1.63	13.	13.	13.	.26		
ROUTED TO	C-38A	42.	1.93	13.	13.	13.	.26	5490.24	1.93
ROUTED TO	C-38B	40.	2.47	13.	13.	13.	.26	5390.51	2.47
HYDROGRAPH AT	B-38	100.	1.17	23.	23.	23.	.69		
2 COMBINED AT	AP-38	100.	1.17	35.	35.	35.	.95		
HYDROGRAPH AT	B-36	36.	1.17	9.	9.	9.	.35		
2 COMBINED AT	AP-39	137.	1.17	44.	44.	44.	1.30		
2 COMBINED AT	AP-49	384.	1.57	130.	130.	130.	4.67		
ROUTED TO	C-50A	384.	1.60	129.	129.	129.	4.67	5182.76	1.60
HYDROGRAPH AT	B-50	84.	.53	7.	7.	7.	.05		
3 COMBINED AT	AP-51	1092.	1.93	431.	431.	431.	19.06		
ROUTED TO	C-53A	1088.	2.00	427.	427.	427.	19.06	5168.40	2.00
HYDROGRAPH AT	B-53	255.	.57	22.	22.	22.	.16		

HYDROGRAPH AT	B-52	42.	1.03	9.	9.	9.	.32		
3 COMBINED AT	AP-53	1099.	2.00	457.	457.	457.	19.54		
ROUTED TO	C-54A	1094.	2.07	452.	452.	452.	19.54	5151.60	2.07
HYDROGRAPH AT	B-54	96.	.67	11.	11.	11.	.09		
2 COMBINED AT	AP-54	1096.	2.07	463.	463.	463.	19.63		
ROUTED TO	C-57B	1092.	2.10	457.	457.	457.	19.63	5126.81	2.10
HYDROGRAPH AT	B-57	47.	.63	5.	5.	5.	.03		
HYDROGRAPH AT	B-55	227.	1.10	47.	47.	47.	1.01		
ROUTED TO	C-56A	223.	1.20	46.	46.	46.	1.01	5140.67	1.20
HYDROGRAPH AT	B-56	404.	.70	47.	47.	47.	.38		
2 COMBINED AT	AP-56	411.	.70	93.	93.	93.	1.38		
ROUTED TO	C-57A	403.	.73	92.	92.	92.	1.38	5118.39	.73
3 COMBINED AT	AP-57	1174.	2.10	554.	554.	554.	21.05		
ROUTED TO	C-60A	1172.	2.13	550.	550.	550.	21.05	5116.92	2.13
HYDROGRAPH AT	B-58	133.	.60	13.	13.	13.	.10		
HYDROGRAPH AT	B-59	131.	.73	16.	16.	16.	.12		
HYDROGRAPH AT	B-60	42.	.93	7.	7.	7.	.08		
4 COMBINED AT	AP-60	1182.	2.13	587.	587.	587.	21.34		
ROUTED TO	RR-7	338.	4.57	232.	232.	232.	21.34	5109.02	4.57

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RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD 6-HOUR	24-HOUR	72-HOUR	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
HYDROGRAPH AT	B-1	2.	6.00	1.	1.	1.	.58		
HYDROGRAPH AT	B-2	1.	1.37	1.	1.	1.	.19		
2 COMBINED AT	AP-3	3.	6.00	2.	2.	2.	.78		
ROUTED TO	C-6A	3.	6.00	2.	2.	2.	.78	5850.02	5.90
ROUTED TO	C-6B	3.	6.00	2.	2.	2.	.78	5816.01	5.93
HYDROGRAPH AT	B-4	6.	1.57	3.	3.	3.	1.01		
ROUTED TO	RR-1	0.	.03	0.	0.	0.	1.01	5848.21	6.00
ROUTED TO	C-6F	0.	.03	0.	0.	0.	1.01	5852.00	.00
HYDROGRAPH AT	B-5	15.	1.30	5.	5.	5.	.60		
ROUTED TO	C-6C	11.	2.27	4.	4.	4.	.60	5860.02	2.17
ROUTED TO	C-6D	10.	2.57	4.	4.	4.	.60	5842.04	2.50
ROUTED TO	C-6E	10.	2.87	4.	4.	4.	.60	5816.05	2.83
HYDROGRAPH AT	B-6	41.	1.67	15.	15.	15.	1.76		
4 COMBINED AT	AP-6	42.	1.70	20.	20.	20.	4.15		
ROUTED TO	RR-2	0.	.03	0.	0.	0.	4.15	5777.01	6.00
ROUTED TO	C-7A	0.	.03	0.	0.	0.	4.15	5760.00	.00
HYDROGRAPH AT	B-7	4.	1.73	2.	2.	2.	.18		
HYDROGRAPH AT	B-8	55.	1.90	21.	21.	21.	.75		
ROUTED TO	C-9A	50.	2.67	20.	20.	20.	.75	5852.22	2.63
ROUTED TO	C-9B	49.	3.00	20.	20.	20.	.75	5836.28	3.00
ROUTED TO	C-9C	48.	3.33	19.	19.	19.	.75	5776.15	3.27
HYDROGRAPH AT	B-9	14.	1.57	5.	5.	5.	.57		
3 COMBINED AT	AP-10	54.	3.33	26.	26.	26.	1.49		
2 COMBINED AT	AP-10	54.	3.33	26.	26.	26.	5.65		
ROUTED TO	C-11A	53.	3.50	25.	25.	25.	5.65	5734.31	3.50
HYDROGRAPH AT	B-11	8.	1.10	2.	2.	2.	.19		

2 COMBINED AT	AP-11	54.	3.50	27.	27.	27.	5.84		
ROUTED TO	C-12A	54.	3.73	26.	26.	26.	5.84	5706.30	3.70
HYDROGRAPH AT	B-12	3.	.93	1.	1.	1.	.06		
2 COMBINED AT	AP-12	54.	3.73	27.	27.	27.	5.89		
HYDROGRAPH AT	B-14	12.	1.33	4.	4.	4.	.40		
ROUTED TO	C-15	11.	1.50	4.	4.	4.	.40	5114.38	1.50
HYDROGRAPH AT	B-15	9.	1.43	3.	3.	3.	.33		
2 COMBINED AT	AP-15	20.	1.47	6.	6.	6.	.72		
ROUTED TO	C-16	20.	1.47	6.	6.	6.	.72	5114.00	1.23
HYDROGRAPH AT	B-16	27.	1.47	9.	9.	9.	1.01		
2 COMBINED AT	AP-16	47.	1.47	15.	15.	15.	1.73		
ROUTED TO	C-17	45.	1.67	15.	15.	15.	1.73	5790.09	1.67
ROUTED TO	C-17A	44.	1.90	15.	15.	15.	1.73	5790.22	1.90
HYDROGRAPH AT	B-17	328.	1.00	57.	57.	57.	.53		
2 COMBINED AT	AP-17	329.	1.00	72.	72.	72.	2.26		
ROUTED TO	C-18A	324.	1.03	72.	72.	72.	2.26	5758.87	1.03
ROUTED TO	C-18B	317.	1.13	71.	71.	71.	2.26	5736.55	1.13
HYDROGRAPH AT	B-18	30.	.87	5.	5.	5.	.20		
2 COMBINED AT	AP-18	339.	1.13	77.	77.	77.	2.47		
HYDROGRAPH AT	B-13	7.	1.17	2.	2.	2.	.20		
2 COMBINED AT	AP-18	346.	1.13	78.	78.	78.	2.67		
ROUTED TO	C-19A	333.	1.37	76.	76.	76.	2.67	5712.62	1.37
HYDROGRAPH AT	B-19	17.	.80	3.	3.	3.	.12		
2 COMBINED AT	AP-19	339.	1.37	79.	79.	79.	2.79		
2 COMBINED AT	AP-20	353.	1.37	106.	106.	106.	8.68		
ROUTED TO	C-21A	342.	1.57	103.	103.	103.	8.68	5657.31	1.53
ROUTED TO	C-22A	341.	1.63	101.	101.	101.	8.68	5601.07	1.63
ROUTED TO	C-22B	339.	1.70	100.	100.	100.	8.68	5501.09	1.70
HYDROGRAPH AT	B-21	67.	1.00	13.	13.	13.	.42		
ROUTED TO	C-22A	65.	1.13	13.	13.	13.	.42	5600.29	1.13
ROUTED TO	C-22B	63.	1.30	13.	13.	13.	.42	5500.27	1.27
HYDROGRAPH AT	B-22	70.	.90	14.	14.	14.	.58		

2 COMBINED AT	AP-22	113.	1.17	26.	26.	26.	1.00		
2 COMBINED AT	AP-22	396.	1.67	126.	126.	126.	9.68		
HYDROGRAPH AT	B-23	182.	1.00	33.	33.	33.	.26		
ROUTED TO	C-24A	180.	1.10	33.	33.	33.	.26	5115.88	1.10
HYDROGRAPH AT	B-24	376.	1.03	70.	70.	70.	.55		
2 COMBINED AT	AP-24	552.	1.03	103.	103.	103.	.81		
ROUTED TO	RR-4	17.	6.00	11.	11.	11.	.81	5002.37	6.00
HYDROGRAPH AT	B-25	30.	1.93	11.	11.	11.	.23		
ROUTED TO	C-26	29.	2.30	11.	11.	11.	.23	5776.06	2.27
HYDROGRAPH AT	B-26	11.	1.27	3.	3.	3.	.12		
3 COMBINED AT	AP-26	44.	2.33	25.	25.	25.	1.17		
ROUTED TO	RR-5	0.	6.00	0.	0.	0.	1.17	5769.99	6.00
HYDROGRAPH AT	B-27	2.	1.13	1.	1.	1.	.05		
2 COMBINED AT	AP-26	2.	1.13	1.	1.	1.	1.21		
ROUTED TO	C-28A	2.	1.50	1.	1.	1.	1.21	5710.01	1.43
ROUTED TO	C-28B	2.	1.80	1.	1.	1.	1.21	5540.01	1.67
HYDROGRAPH AT	B-28	77.	2.07	31.	31.	31.	.83		
3 COMBINED AT	AP-29	463.	1.67	158.	158.	158.	11.72		
ROUTED TO	C-31A	453.	1.90	152.	152.	152.	11.72	5416.19	1.90
ROUTED TO	C-34A	447.	2.00	149.	149.	149.	11.72	5331.44	2.00
ROUTED TO	C-35A	445.	2.07	148.	148.	148.	11.72	5194.90	2.07
HYDROGRAPH AT	B-31	48.	1.13	11.	11.	11.	.43		
HYDROGRAPH AT	B-30	63.	1.00	12.	12.	12.	.35		
HYDROGRAPH AT	B-32	149.	1.40	40.	40.	40.	1.11		
3 COMBINED AT	AP-33	234.	1.27	63.	63.	63.	1.89		
ROUTED TO	C-34A	232.	1.37	62.	62.	62.	1.89	5331.07	1.37
HYDROGRAPH AT	B-34	44.	1.33	12.	12.	12.	.60		
2 COMBINED AT	AP-34	276.	1.37	74.	74.	74.	2.49		
ROUTED TO	C-35A	275.	1.43	73.	73.	73.	2.49	5194.69	1.43
HYDROGRAPH AT	B-35	166.	.57	15.	15.	15.	.13		
2 COMBINED AT	AP-35	286.	1.43	88.	88.	88.	2.62		
2 COMBINED AT	AP-35	602.	2.03	236.	236.	236.	14.34		

HYDROGRAPH AT	B-40	27.	1.27	8.	8.	8.	.61		
HYDROGRAPH AT	B-41	23.	2.80	12.	12.	12.	.61		
2 COMBINED AT	AP-42	32.	1.33	19.	19.	19.	1.23		
ROUTED TO	RR-6	0.	.03	0.	0.	0.	1.23	5754.82	6.00
ROUTED TO	C-43A	0.	.03	0.	0.	0.	1.23	5730.00	.00
HYDROGRAPH AT	B-43	64.	1.43	18.	18.	18.	.49		
2 COMBINED AT	AP-43	64.	1.43	18.	18.	18.	1.72		
ROUTED TO	C-44A	64.	1.57	17.	17.	17.	1.72	5635.10	1.53
ROUTED TO	C-44B	63.	1.67	17.	17.	17.	1.72	5464.94	1.67
HYDROGRAPH AT	B-44	102.	1.53	30.	30.	30.	.85		
2 COMBINED AT	AP-44	164.	1.60	48.	48.	48.	2.57		
HYDROGRAPH AT	B-45	54.	1.03	11.	11.	11.	.24		
ROUTED TO	C-46A	52.	1.27	10.	10.	10.	.24	5480.29	1.23
HYDROGRAPH AT	B-46	27.	.87	4.	4.	4.	.12		
3 COMBINED AT	AP-47	210.	1.50	62.	62.	62.	2.92		
ROUTED TO	C-48A	209.	1.60	61.	61.	61.	2.92	5376.92	1.60
ROUTED TO	C-48B	208.	1.70	60.	60.	60.	2.92	5341.59	1.70
HYDROGRAPH AT	B-48	22.	1.87	8.	8.	8.	.44		
2 COMBINED AT	AP-48	230.	1.70	69.	69.	69.	3.36		
HYDROGRAPH AT	B-37	35.	1.63	11.	11.	11.	.26		
ROUTED TO	C-38A	34.	1.97	11.	11.	11.	.26	5490.19	1.97
ROUTED TO	C-38B	32.	2.47	10.	10.	10.	.26	5390.41	2.47
HYDROGRAPH AT	B-38	75.	1.20	18.	18.	18.	.69		
2 COMBINED AT	AP-38	75.	1.20	28.	28.	28.	.95		
HYDROGRAPH AT	B-36	26.	1.20	6.	6.	6.	.35		
2 COMBINED AT	AP-39	101.	1.20	34.	34.	34.	1.30		
2 COMBINED AT	AP-49	295.	1.63	103.	103.	103.	4.67		
ROUTED TO	C-50A	295.	1.70	102.	102.	102.	4.67	5182.64	1.67
HYDROGRAPH AT	B-50	74.	.53	6.	6.	6.	.05		
3 COMBINED AT	AP-51	860.	2.00	345.	345.	345.	19.06		
ROUTED TO	C-53A	855.	2.03	341.	341.	341.	19.06	5168.12	2.03
HYDROGRAPH AT	B-53	225.	.57	19.	19.	19.	.16		

HYDROGRAPH AT	B-52	30.	1.07	7.	7.	7.	.32		
3 COMBINED AT	AP-53	865.	2.07	367.	367.	367.	19.54		
ROUTED TO	C-54A	859.	2.13	362.	362.	362.	19.54	5151.24	2.13
HYDROGRAPH AT	B-54	85.	.67	10.	10.	10.	.09		
2 COMBINED AT	AP-54	862.	2.13	372.	372.	372.	19.63		
ROUTED TO	C-57B	855.	2.20	366.	366.	366.	19.63	5126.43	2.20
HYDROGRAPH AT	B-57	42.	.63	4.	4.	4.	.03		
HYDROGRAPH AT	B-55	178.	1.10	37.	37.	37.	1.01		
ROUTED TO	C-56A	175.	1.23	37.	37.	37.	1.01	5140.57	1.23
HYDROGRAPH AT	B-56	357.	.70	42.	42.	42.	.38		
2 COMBINED AT	AP-56	361.	.70	79.	79.	79.	1.38		
ROUTED TO	C-57A	353.	.73	78.	78.	78.	1.38	5118.20	.73
3 COMBINED AT	AP-57	919.	2.17	449.	449.	449.	21.05		
ROUTED TO	C-60A	916.	2.20	446.	446.	446.	21.05	5116.53	2.20
HYDROGRAPH AT	B-58	118.	.60	12.	12.	12.	.10		
HYDROGRAPH AT	B-59	116.	.73	15.	15.	15.	.12		
HYDROGRAPH AT	B-60	35.	.93	6.	6.	6.	.08		
4 COMBINED AT	AP-60	995.	.80	478.	478.	478.	21.34		
ROUTED TO	RR-7	266.	5.27	182.	182.	182.	21.34	5108.17	5.27

MARIPOSA BASIN MASTER PLAN
25 YEAR - 6 HOUR RAINFALL
EXISTING WITH NO IMPROVEMENTS

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD 6-HOUR	24-HOUR	72-HOUR	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
HYDROGRAPH AT	B-1	1.	6.00	0.	0.	0.	.58		
HYDROGRAPH AT	B-2	0.	6.00	0.	0.	0.	.19		
2 COMBINED AT	AP-3	1.	6.00	0.	0.	0.	.78		
ROUTED TO	C-6A	1.	6.00	0.	0.	0.	.78	5850.01	5.87
ROUTED TO	C-6B	1.	6.00	0.	0.	0.	.78	5816.00	5.67
HYDROGRAPH AT	B-4	2.	6.00	1.	1.	1.	1.01		
ROUTED TO	RR-1	0.	.03	0.	0.	0.	1.01	5848.05	6.00
ROUTED TO	C-6F	0.	.03	0.	0.	0.	1.01	5852.00	.00
HYDROGRAPH AT	B-5	5.	1.47	2.	2.	2.	.60		
ROUTED TO	C-6C	4.	2.40	2.	2.	2.	.60	5860.01	2.37
ROUTED TO	C-6D	3.	2.73	2.	2.	2.	.60	5842.01	2.63
ROUTED TO	C-6E	3.	3.03	1.	1.	1.	.60	5816.02	2.93
HYDROGRAPH AT	B-6	16.	1.80	7.	7.	7.	1.76		
4 COMBINED AT	AP-6	16.	1.80	9.	9.	9.	4.15		
ROUTED TO	RR-2	0.	.03	0.	0.	0.	4.15	5776.45	6.00
ROUTED TO	C-7A	0.	.03	0.	0.	0.	4.15	5760.00	.00
HYDROGRAPH AT	B-7	1.	1.87	1.	1.	1.	.18		
HYDROGRAPH AT	B-8	44.	1.87	16.	16.	16.	.75		
ROUTED TO	C-9A	40.	2.63	16.	16.	16.	.75	5852.17	2.60
ROUTED TO	C-9B	39.	2.97	15.	15.	15.	.75	5836.22	2.97
ROUTED TO	C-9C	38.	3.30	15.	15.	15.	.75	5776.12	3.23
HYDROGRAPH AT	B-9	5.	1.70	2.	2.	2.	.57		
3 COMBINED AT	AP-10	41.	3.30	18.	18.	18.	1.49		
2 COMBINED AT	AP-10	41.	3.30	18.	18.	18.	5.65		
ROUTED TO	C-11A	41.	3.47	18.	18.	18.	5.65	5734.24	3.47
HYDROGRAPH AT	B-11	4.	1.20	1.	1.	1.	.19		

2 COMBINED AT	AP-11	42.	3.47	19.	19.	19.	5.84		
ROUTED TO	C-12A	41.	3.70	18.	18.	18.	5.84	5706.23	3.70
HYDROGRAPH AT	B-12	1.	1.10	0.	0.	0.	.06		
2 COMBINED AT	AP-12	41.	3.70	19.	19.	19.	5.89		
HYDROGRAPH AT	B-14	4.	1.47	2.	2.	2.	.40		
ROUTED TO	C-15	4.	1.63	2.	2.	2.	.40	5114.15	1.63
HYDROGRAPH AT	B-15	3.	1.57	1.	1.	1.	.33		
2 COMBINED AT	AP-15	8.	1.60	3.	3.	3.	.72		
ROUTED TO	C-16	8.	1.60	3.	3.	3.	.72	5114.00	.00
HYDROGRAPH AT	B-16	10.	1.60	4.	4.	4.	1.01		
2 COMBINED AT	AP-16	18.	1.60	7.	7.	7.	1.73		
ROUTED TO	C-17	17.	1.80	7.	7.	7.	1.73	5790.03	1.77
ROUTED TO	C-17A	17.	2.03	7.	7.	7.	1.73	5790.08	2.03
HYDROGRAPH AT	B-17	262.	1.00	47.	47.	47.	.53		
2 COMBINED AT	AP-17	262.	1.00	53.	53.	53.	2.26		
ROUTED TO	C-18A	259.	1.07	53.	53.	53.	2.26	5758.69	1.07
ROUTED TO	C-18B	252.	1.17	53.	53.	53.	2.26	5736.44	1.17
HYDROGRAPH AT	B-18	17.	.90	3.	3.	3.	.20		
2 COMBINED AT	AP-18	267.	1.13	56.	56.	56.	2.47		
HYDROGRAPH AT	B-13	3.	1.27	1.	1.	1.	.20		
2 COMBINED AT	AP-18	269.	1.13	57.	57.	57.	2.67		
ROUTED TO	C-19A	259.	1.37	56.	56.	56.	2.67	5712.54	1.37
HYDROGRAPH AT	B-19	9.	.83	2.	2.	2.	.12		
2 COMBINED AT	AP-19	262.	1.37	57.	57.	57.	2.79		
2 COMBINED AT	AP-20	267.	1.37	76.	76.	76.	8.68		
ROUTED TO	C-21A	256.	1.57	73.	73.	73.	8.68	5657.16	1.57
ROUTED TO	C-22A	254.	1.67	72.	72.	72.	8.68	5600.92	1.67
ROUTED TO	C-22B	254.	1.70	71.	71.	71.	8.68	5500.92	1.70
HYDROGRAPH AT	B-21	42.	1.03	9.	9.	9.	.42		
ROUTED TO	C-22A	41.	1.17	9.	9.	9.	.42	5600.18	1.17
ROUTED TO	C-22B	40.	1.33	9.	9.	9.	.42	5500.17	1.33
HYDROGRAPH AT	B-22	40.	.97	9.	9.	9.	.58		

2 COMBINED AT	AP-22	70.	1.20	17.	17.	17.	1.00		
2 COMBINED AT	AP-22	292.	1.70	88.	88.	88.	9.68		
HYDROGRAPH AT	B-23	152.	1.00	28.	28.	28.	.26		
ROUTED TO	C-24A	150.	1.10	27.	27.	27.	.26	5115.72	1.10
HYDROGRAPH AT	B-24	314.	1.03	59.	59.	59.	.55		
2 COMBINED AT	AP-24	460.	1.07	86.	86.	86.	.81		
ROUTED TO	RR-4	11.	6.00	6.	6.	6.	.81	5001.74	6.00
HYDROGRAPH AT	B-25	22.	1.93	8.	8.	8.	.23		
ROUTED TO	C-26	21.	2.33	8.	8.	8.	.23	5776.04	2.27
HYDROGRAPH AT	B-26	7.	1.30	2.	2.	2.	.12		
3 COMBINED AT	AP-26	29.	2.37	16.	16.	16.	1.17		
ROUTED TO	RR-5	0.	5.97	0.	0.	0.	1.17	5768.77	6.00
HYDROGRAPH AT	B-27	1.	1.20	0.	0.	0.	.05		
2 COMBINED AT	AP-26	1.	1.20	0.	0.	0.	1.21		
ROUTED TO	C-28A	1.	1.60	0.	0.	0.	1.21	5710.00	1.47
ROUTED TO	C-28B	1.	1.87	0.	0.	0.	1.21	5540.00	1.83
HYDROGRAPH AT	B-28	52.	2.10	21.	21.	21.	.83		
3 COMBINED AT	AP-29	337.	1.70	110.	110.	110.	11.72		
ROUTED TO	C-31A	318.	1.97	106.	106.	106.	11.72	5415.97	1.97
ROUTED TO	C-34A	309.	2.10	104.	104.	104.	11.72	5331.20	2.10
ROUTED TO	C-35A	307.	2.17	103.	103.	103.	11.72	5194.73	2.17
HYDROGRAPH AT	B-31	29.	1.20	7.	7.	7.	.43		
HYDROGRAPH AT	B-30	40.	1.00	8.	8.	8.	.35		
HYDROGRAPH AT	B-32	99.	1.43	28.	28.	28.	1.11		
3 COMBINED AT	AP-33	152.	1.30	43.	43.	43.	1.89		
ROUTED TO	C-34A	151.	1.43	42.	42.	42.	1.89	5330.82	1.43
HYDROGRAPH AT	B-34	25.	1.40	7.	7.	7.	.60		
2 COMBINED AT	AP-34	176.	1.43	50.	50.	50.	2.49		
ROUTED TO	C-35A	175.	1.50	49.	49.	49.	2.49	5194.56	1.47
HYDROGRAPH AT	B-35	136.	.57	12.	12.	12.	.13		
2 COMBINED AT	AP-35	184.	1.47	62.	62.	62.	2.62		
2 COMBINED AT	AP-35	405.	2.13	164.	164.	164.	14.34		

HYDROGRAPH AT	B-40	13.	1.37	4.	4.	4.	.61		
HYDROGRAPH AT	B-41	14.	2.90	7.	7.	7.	.61		
2 COMBINED AT	AP-42	17.	2.90	11.	11.	11.	1.23		
ROUTED TO	RR-6	0.	.03	0.	0.	0.	1.23	5754.21	6.00
ROUTED TO	C-43A	0.	.03	0.	0.	0.	1.23	5730.00	.00
HYDROGRAPH AT	B-43	43.	1.47	12.	12.	12.	.49		
2 COMBINED AT	AP-43	43.	1.47	12.	12.	12.	1.72		
ROUTED TO	C-44A	42.	1.60	12.	12.	12.	1.72	5635.07	1.57
ROUTED TO	C-44B	42.	1.70	12.	12.	12.	1.72	5464.86	1.70
HYDROGRAPH AT	B-44	68.	1.57	21.	21.	21.	.85		
2 COMBINED AT	AP-44	109.	1.67	33.	33.	33.	2.57		
HYDROGRAPH AT	B-45	37.	1.07	8.	8.	8.	.24		
ROUTED TO	C-46A	36.	1.27	7.	7.	7.	.24	5480.20	1.27
HYDROGRAPH AT	B-46	17.	.87	3.	3.	3.	.12		
3 COMBINED AT	AP-47	136.	1.63	43.	43.	43.	2.92		
ROUTED TO	C-48A	135.	1.70	43.	43.	43.	2.92	5376.70	1.70
ROUTED TO	C-48B	134.	1.80	42.	42.	42.	2.92	5341.28	1.80
HYDROGRAPH AT	B-48	13.	1.93	5.	5.	5.	.44		
2 COMBINED AT	AP-48	147.	1.80	47.	47.	47.	3.36		
HYDROGRAPH AT	B-37	24.	1.67	8.	8.	8.	.26		
ROUTED TO	C-38A	23.	2.00	8.	8.	8.	.26	5490.13	1.97
ROUTED TO	C-38B	22.	2.50	7.	7.	7.	.26	5390.28	2.50
HYDROGRAPH AT	B-38	45.	1.23	11.	11.	11.	.69		
2 COMBINED AT	AP-38	45.	1.23	19.	19.	19.	.95		
HYDROGRAPH AT	B-36	14.	1.27	4.	4.	4.	.35		
2 COMBINED AT	AP-39	59.	1.23	22.	22.	22.	1.30		
2 COMBINED AT	AP-49	187.	1.73	69.	69.	69.	4.67		
ROUTED TO	C-50A	187.	1.77	69.	69.	69.	4.67	5182.50	1.73
HYDROGRAPH AT	B-50	60.	.53	5.	5.	5.	.05		
3 COMBINED AT	AP-51	566.	2.13	238.	238.	238.	19.06		
ROUTED TO	C-53A	559.	2.20	235.	235.	235.	19.06	5167.70	2.20
HYDROGRAPH AT	B-53	184.	.57	16.	16.	16.	.16		

HYDROGRAPH AT	B-52	17.	1.13	4.	4.	4.	.32		
3 COMBINED AT	AP-53	566.	2.20	255.	255.	255.	19.54		
ROUTED TO	C-54A	559.	2.27	252.	252.	252.	19.54	5150.68	2.27
HYDROGRAPH AT	B-54	70.	.67	8.	8.	8.	.09		
2 COMBINED AT	AP-54	561.	2.27	260.	260.	260.	19.63		
ROUTED TO	C-57B	553.	2.33	255.	255.	255.	19.63	5125.87	2.33
HYDROGRAPH AT	B-57	34.	.63	3.	3.	3.	.03		
HYDROGRAPH AT	B-55	117.	1.13	26.	26.	26.	1.01		
ROUTED TO	C-56A	114.	1.27	25.	25.	25.	1.01	5140.46	1.27
HYDROGRAPH AT	B-56	293.	.70	35.	35.	35.	.38		
2 COMBINED AT	AP-56	296.	.70	61.	61.	61.	1.38		
ROUTED TO	C-57A	289.	.73	60.	60.	60.	1.38	5117.96	.73
3 COMBINED AT	AP-57	643.	.77	319.	319.	319.	21.05		
ROUTED TO	C-60A	626.	.80	316.	316.	316.	21.05	5116.02	.80
HYDROGRAPH AT	B-58	97.	.60	10.	10.	10.	.10		
HYDROGRAPH AT	B-59	96.	.73	12.	12.	12.	.12		
HYDROGRAPH AT	B-60	27.	.93	5.	5.	5.	.08		
4 COMBINED AT	AP-60	796.	.80	343.	343.	343.	21.34		
ROUTED TO	RR-7	185.	6.00	125.	125.	125.	21.34	5107.09	6.00

MARIPOSA BASIN MASTER PLAN
10 YEAR - 6 HOUR RAINFALL
EXISTING WITH NO IMPROVEMENTS

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD 6-HOUR	24-HOUR	72-HOUR	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
HYDROGRAPH AT	B-1	0.	.03	0.	0.	0.	.58		
HYDROGRAPH AT	B-2	0.	.03	0.	0.	0.	.19		
2 COMBINED AT	AP-3	0.	.03	0.	0.	0.	.78		
ROUTED TO	C-6A	0.	.03	0.	0.	0.	.78	5850.00	.00
ROUTED TO	C-6B	0.	.03	0.	0.	0.	.78	5816.00	.00
HYDROGRAPH AT	B-4	0.	.03	0.	0.	0.	1.01		
ROUTED TO	RR-1	0.	.03	0.	0.	0.	1.01	5848.00	.03
ROUTED TO	C-6F	0.	.03	0.	0.	0.	1.01	5852.00	.00
HYDROGRAPH AT	B-5	1.	6.00	0.	0.	0.	.60		
ROUTED TO	C-6C	1.	6.00	0.	0.	0.	.60	5860.00	5.27
ROUTED TO	C-6D	0.	6.00	0.	0.	0.	.60	5842.00	5.40
ROUTED TO	C-6E	0.	6.00	0.	0.	0.	.60	5816.00	5.67
HYDROGRAPH AT	B-6	3.	6.00	1.	1.	1.	1.76		
4 COMBINED AT	AP-6	3.	6.00	1.	1.	1.	4.15		
ROUTED TO	RR-2	0.	.03	0.	0.	0.	4.15	5776.05	6.00
ROUTED TO	C-7A	0.	.03	0.	0.	0.	4.15	5760.00	.00
HYDROGRAPH AT	B-7	0.	6.00	0.	0.	0.	.18		
HYDROGRAPH AT	B-8	33.	1.83	12.	12.	12.	.75		
ROUTED TO	C-9A	30.	2.57	11.	11.	11.	.75	5852.13	2.53
ROUTED TO	C-9B	29.	2.93	11.	11.	11.	.75	5836.17	2.90
ROUTED TO	C-9C	29.	3.23	11.	11.	11.	.75	5776.09	3.17
HYDROGRAPH AT	B-9	1.	6.00	0.	0.	0.	.57		
3 COMBINED AT	AP-10	29.	3.23	11.	11.	11.	1.49		
2 COMBINED AT	AP-10	29.	3.23	11.	11.	11.	5.65		
ROUTED TO	C-11A	29.	3.43	11.	11.	11.	5.65	5734.17	3.43
HYDROGRAPH AT	B-11	0.	6.00	0.	0.	0.	.19		

2 COMBINED AT	AP-11	29.	3.43	11.	11.	11.	5.84		
ROUTED TO	C-12A	29.	3.67	11.	11.	11.	5.84	5706.16	3.63
HYDROGRAPH AT	B-12	0.	5.97	0.	0.	0.	.06		
2 COMBINED AT	AP-12	29.	3.67	11.	11.	11.	5.89		
HYDROGRAPH AT	B-14	1.	6.00	0.	0.	0.	.40		
ROUTED TO	C-15	1.	6.00	0.	0.	0.	.40	5114.02	6.00
HYDROGRAPH AT	B-15	1.	6.00	0.	0.	0.	.33		
2 COMBINED AT	AP-15	1.	6.00	0.	0.	0.	.72		
ROUTED TO	C-16	1.	6.00	0.	0.	0.	.72	5114.00	.00
HYDROGRAPH AT	B-16	2.	6.00	1.	1.	1.	1.01		
2 COMBINED AT	AP-16	3.	6.00	1.	1.	1.	1.73		
ROUTED TO	C-17	3.	6.00	1.	1.	1.	1.73	5790.01	5.93
ROUTED TO	C-17A	3.	6.00	1.	1.	1.	1.73	5790.01	5.90
HYDROGRAPH AT	B-17	180.	1.00	33.	33.	33.	.53		
2 COMBINED AT	AP-17	180.	1.00	34.	34.	34.	2.26		
ROUTED TO	C-18A	177.	1.07	34.	34.	34.	2.26	5758.47	1.07
ROUTED TO	C-18B	173.	1.17	33.	33.	33.	2.26	5736.30	1.17
HYDROGRAPH AT	B-18	6.	1.10	2.	2.	2.	.20		
2 COMBINED AT	AP-18	179.	1.17	35.	35.	35.	2.47		
HYDROGRAPH AT	B-13	0.	6.00	0.	0.	0.	.20		
2 COMBINED AT	AP-18	179.	1.17	35.	35.	35.	2.67		
ROUTED TO	C-19A	164.	1.47	34.	34.	34.	2.67	5712.43	1.47
HYDROGRAPH AT	B-19	3.	1.07	1.	1.	1.	.12		
2 COMBINED AT	AP-19	165.	1.47	35.	35.	35.	2.79		
2 COMBINED AT	AP-20	165.	1.47	46.	46.	46.	8.68		
ROUTED TO	C-21A	155.	1.73	44.	44.	44.	8.68	5656.91	1.73
ROUTED TO	C-22A	152.	1.90	44.	44.	44.	8.68	5600.68	1.90
ROUTED TO	C-22B	150.	2.03	43.	43.	43.	8.68	5500.64	2.03
HYDROGRAPH AT	B-21	17.	1.13	4.	4.	4.	.42		
ROUTED TO	C-22A	17.	1.27	4.	4.	4.	.42	5600.07	1.27
ROUTED TO	C-22B	16.	1.43	4.	4.	4.	.42	5500.07	1.43
HYDROGRAPH AT	B-22	13.	1.13	4.	4.	4.	.58		

2 COMBINED AT	AP-22	26.	1.30	8.	8.	8.	1.00		
2 COMBINED AT	AP-22	159.	2.03	51.	51.	51.	9.68		
HYDROGRAPH AT	B-23	114.	1.00	21.	21.	21.	.26		
ROUTED TO	C-24A	113.	1.10	21.	21.	21.	.26	5115.46	1.10
HYDROGRAPH AT	B-24	236.	1.00	44.	44.	44.	.55		
2 COMBINED AT	AP-24	346.	1.03	65.	65.	65.	.81		
ROUTED TO	RR-4	4.	6.00	2.	2.	2.	.81	5000.83	6.00
HYDROGRAPH AT	B-25	12.	1.97	5.	5.	5.	.23		
ROUTED TO	C-26	12.	2.37	5.	5.	5.	.23	5776.02	2.33
HYDROGRAPH AT	B-26	2.	1.43	1.	1.	1.	.12		
3 COMBINED AT	AP-26	14.	2.40	7.	7.	7.	1.17		
ROUTED TO	RR-5	0.	.03	0.	0.	0.	1.17	5767.34	6.00
HYDROGRAPH AT	B-27	0.	1.57	0.	0.	0.	.05		
2 COMBINED AT	AP-26	0.	1.57	0.	0.	0.	1.21		
ROUTED TO	C-28A	0.	6.00	0.	0.	0.	1.21	5710.00	1.73
ROUTED TO	C-28B	0.	6.00	0.	0.	0.	1.21	5540.00	1.90
HYDROGRAPH AT	B-28	25.	2.17	11.	11.	11.	.83		
3 COMBINED AT	AP-29	185.	2.03	62.	62.	62.	11.72		
ROUTED TO	C-31A	177.	2.40	60.	60.	60.	11.72	5415.67	2.40
ROUTED TO	C-34A	175.	2.53	58.	58.	58.	11.72	5330.90	2.53
ROUTED TO	C-35A	175.	2.60	57.	57.	57.	11.72	5194.56	2.60
HYDROGRAPH AT	B-31	10.	1.30	3.	3.	3.	.43		
HYDROGRAPH AT	B-30	17.	1.10	4.	4.	4.	.35		
HYDROGRAPH AT	B-32	46.	1.50	14.	14.	14.	1.11		
3 COMBINED AT	AP-33	67.	1.40	21.	21.	21.	1.89		
ROUTED TO	C-34A	66.	1.53	21.	21.	21.	1.89	5330.56	1.53
HYDROGRAPH AT	B-34	7.	1.53	3.	3.	3.	.60		
2 COMBINED AT	AP-34	74.	1.53	23.	23.	23.	2.49		
ROUTED TO	C-35A	73.	1.63	23.	23.	23.	2.49	5194.26	1.63
HYDROGRAPH AT	B-35	99.	.57	9.	9.	9.	.13		
2 COMBINED AT	AP-35	99.	.57	32.	32.	32.	2.62		
2 COMBINED AT	AP-35	206.	2.57	90.	90.	90.	14.34		

HYDROGRAPH AT	B-40	2.	6.00	1.	1.	1.	.61		
HYDROGRAPH AT	B-41	5.	3.10	3.	3.	3.	.61		
2 COMBINED AT	AP-42	6.	3.23	4.	4.	4.	1.23		
ROUTED TO	RR-6	0.	.03	0.	0.	0.	1.23	5753.35	6.00
ROUTED TO	C-43A	0.	.03	0.	0.	0.	1.23	5730.00	.00
HYDROGRAPH AT	B-43	20.	1.53	6.	6.	6.	.49		
2 COMBINED AT	AP-43	20.	1.53	6.	6.	6.	1.72		
ROUTED TO	C-44A	20.	1.67	6.	6.	6.	1.72	5635.03	1.63
ROUTED TO	C-44B	19.	1.90	6.	6.	6.	1.72	5464.42	1.90
HYDROGRAPH AT	B-44	31.	1.67	11.	11.	11.	.85		
2 COMBINED AT	AP-44	49.	1.77	17.	17.	17.	2.57		
HYDROGRAPH AT	B-45	18.	1.13	4.	4.	4.	.24		
ROUTED TO	C-46A	18.	1.33	4.	4.	4.	.24	5480.10	1.33
HYDROGRAPH AT	B-46	8.	.97	2.	2.	2.	.12		
3 COMBINED AT	AP-47	63.	1.63	22.	22.	22.	2.92		
ROUTED TO	C-48A	62.	1.80	22.	22.	22.	2.92	5376.44	1.80
ROUTED TO	C-48B	62.	1.93	21.	21.	21.	2.92	5340.86	1.93
HYDROGRAPH AT	B-48	4.	2.07	2.	2.	2.	.44		
2 COMBINED AT	AP-48	66.	1.93	23.	23.	23.	3.36		
HYDROGRAPH AT	B-37	12.	1.73	4.	4.	4.	.26		
ROUTED TO	C-38A	12.	2.03	4.	4.	4.	.26	5490.07	2.00
ROUTED TO	C-38B	11.	2.57	4.	4.	4.	.26	5390.14	2.57
HYDROGRAPH AT	B-38	16.	1.33	5.	5.	5.	.69		
2 COMBINED AT	AP-38	16.	1.37	9.	9.	9.	.95		
HYDROGRAPH AT	B-36	4.	1.43	1.	1.	1.	.35		
2 COMBINED AT	AP-39	20.	1.37	10.	10.	10.	1.30		
2 COMBINED AT	AP-49	81.	1.90	33.	33.	33.	4.67		
ROUTED TO	C-50A	81.	2.00	33.	33.	33.	4.67	5182.26	1.97
HYDROGRAPH AT	B-50	44.	.53	4.	4.	4.	.05		
3 COMBINED AT	AP-51	272.	2.50	126.	126.	126.	19.06		
ROUTED TO	C-53A	271.	2.57	124.	124.	124.	19.06	5167.13	2.57
HYDROGRAPH AT	B-53	133.	.57	12.	12.	12.	.16		

HYDROGRAPH AT	B-52	5.	1.27	2.	2.	2.	.32		
3 COMBINED AT	AP-53	275.	2.57	138.	138.	138.	19.54		
ROUTED TO	C-54A	273.	2.67	135.	135.	135.	19.54	5149.91	2.67
HYDROGRAPH AT	B-54	52.	.67	6.	6.	6.	.09		
2 COMBINED AT	AP-54	275.	2.67	141.	141.	141.	19.63		
ROUTED TO	C-57B	273.	2.77	138.	138.	138.	19.63	5125.22	2.77
HYDROGRAPH AT	B-57	25.	.60	3.	3.	3.	.03		
HYDROGRAPH AT	B-55	53.	1.20	13.	13.	13.	1.01		
ROUTED TO	C-56A	50.	1.43	13.	13.	13.	1.01	5140.23	1.43
HYDROGRAPH AT	B-56	216.	.67	26.	26.	26.	.38		
2 COMBINED AT	AP-56	217.	.70	39.	39.	39.	1.38		
ROUTED TO	C-57A	211.	.73	39.	39.	39.	1.38	5117.62	.73
3 COMBINED AT	AP-57	455.	.80	179.	179.	179.	21.05		
ROUTED TO	C-60A	443.	.83	177.	177.	177.	21.05	5115.64	.83
HYDROGRAPH AT	B-58	71.	.60	7.	7.	7.	.10		
HYDROGRAPH AT	B-59	70.	.73	9.	9.	9.	.12		
HYDROGRAPH AT	B-60	17.	.97	3.	3.	3.	.08		
4 COMBINED AT	AP-60	559.	.80	197.	197.	197.	21.34		
ROUTED TO	RR-7	104.	6.00	71.	71.	71.	21.34	5105.83	6.00

MARIPOSA BASIN MASTER PLAN
5 YEAR - 6 HOUR RAINFALL
EXISTING WITH NO IMPROVEMENTS

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD 6-HOUR	24-HOUR	72-HOUR	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
HYDROGRAPH AT	B-1	0.	.03	0.	0.	0.	.58		
HYDROGRAPH AT	B-2	0.	.03	0.	0.	0.	.19		
2 COMBINED AT	AP-3	0.	.03	0.	0.	0.	.78		
ROUTED TO	C-6A	0.	.03	0.	0.	0.	.78	5850.00	.00
ROUTED TO	C-6B	0.	.03	0.	0.	0.	.78	5816.00	.00
HYDROGRAPH AT	B-4	0.	.03	0.	0.	0.	1.01		
ROUTED TO	RR-1	0.	.03	0.	0.	0.	1.01	5848.00	.03
ROUTED TO	C-6F	0.	.03	0.	0.	0.	1.01	5852.00	.00
HYDROGRAPH AT	B-5	0.	.03	0.	0.	0.	.60		
ROUTED TO	C-6C	0.	.03	0.	0.	0.	.60	5860.00	.00
ROUTED TO	C-6D	0.	.03	0.	0.	0.	.60	5842.00	.00
ROUTED TO	C-6E	0.	.03	0.	0.	0.	.60	5816.00	.00
HYDROGRAPH AT	B-6	0.	.03	0.	0.	0.	1.76		
4 COMBINED AT	AP-6	0.	.03	0.	0.	0.	4.15		
ROUTED TO	RR-2	0.	.03	0.	0.	0.	4.15	5776.00	.03
ROUTED TO	C-7A	0.	.03	0.	0.	0.	4.15	5760.00	.00
HYDROGRAPH AT	B-7	0.	.03	0.	0.	0.	.18		
HYDROGRAPH AT	B-8	27.	1.83	9.	9.	9.	.75		
ROUTED TO	C-9A	25.	2.57	9.	9.	9.	.75	5852.11	2.57
ROUTED TO	C-9B	24.	2.93	9.	9.	9.	.75	5836.14	2.90
ROUTED TO	C-9C	24.	3.23	9.	9.	9.	.75	5776.07	3.23
HYDROGRAPH AT	B-9	0.	.03	0.	0.	0.	.57		
3 COMBINED AT	AP-10	24.	3.23	9.	9.	9.	1.49		
2 COMBINED AT	AP-10	24.	3.23	9.	9.	9.	5.65		
ROUTED TO	C-11A	24.	3.43	9.	9.	9.	5.65	5734.14	3.40
HYDROGRAPH AT	B-11	0.	6.00	0.	0.	0.	.19		

2 COMBINED AT	AP-11	24.	3.43	9.	9.	9.	5.84		
ROUTED TO	C-12A	23.	3.63	9.	9.	9.	5.84	5706.13	3.60
HYDROGRAPH AT	B-12	0.	5.97	0.	0.	0.	.06		
2 COMBINED AT	AP-12	23.	3.63	9.	9.	9.	5.89		
HYDROGRAPH AT	B-14	0.	.03	0.	0.	0.	.40		
ROUTED TO	C-15	0.	.03	0.	0.	0.	.40	5114.00	.00
HYDROGRAPH AT	B-15	0.	.03	0.	0.	0.	.33		
2 COMBINED AT	AP-15	0.	.03	0.	0.	0.	.72		
ROUTED TO	C-16	0.	.03	0.	0.	0.	.72	5114.00	.00
HYDROGRAPH AT	B-16	0.	.03	0.	0.	0.	1.01		
2 COMBINED AT	AP-16	0.	.03	0.	0.	0.	1.73		
ROUTED TO	C-17	0.	.03	0.	0.	0.	1.73	5790.00	.00
ROUTED TO	C-17A	0.	.03	0.	0.	0.	1.73	5790.00	.00
HYDROGRAPH AT	B-17	123.	1.03	23.	23.	23.	.53		
2 COMBINED AT	AP-17	123.	1.03	23.	23.	23.	2.26		
ROUTED TO	C-18A	121.	1.07	23.	23.	23.	2.26	5758.32	1.07
ROUTED TO	C-18B	119.	1.17	23.	23.	23.	2.26	5736.21	1.17
HYDROGRAPH AT	B-18	1.	1.23	0.	0.	0.	.20		
2 COMBINED AT	AP-18	120.	1.17	23.	23.	23.	2.47		
HYDROGRAPH AT	B-13	0.	.03	0.	0.	0.	.20		
2 COMBINED AT	AP-18	120.	1.17	23.	23.	23.	2.67		
ROUTED TO	C-19A	108.	1.57	23.	23.	23.	2.67	5712.30	1.57
HYDROGRAPH AT	B-19	0.	1.20	0.	0.	0.	.12		
2 COMBINED AT	AP-19	108.	1.57	23.	23.	23.	2.79		
2 COMBINED AT	AP-20	108.	1.57	32.	32.	32.	8.68		
ROUTED TO	C-21A	104.	1.83	31.	31.	31.	8.68	5656.73	1.80
ROUTED TO	C-22A	103.	1.97	30.	30.	30.	8.68	5600.46	1.97
ROUTED TO	C-22B	101.	2.10	30.	30.	30.	8.68	5500.43	2.10
HYDROGRAPH AT	B-21	5.	1.27	2.	2.	2.	.42		
ROUTED TO	C-22A	5.	1.40	2.	2.	2.	.42	5600.02	1.40
ROUTED TO	C-22B	5.	1.57	2.	2.	2.	.42	5500.02	1.53
HYDROGRAPH AT	B-22	2.	1.33	1.	1.	1.	.58		

2 COMBINED AT	AP-22	7.	1.53	3.	3.	3.	1.00		
2 COMBINED AT	AP-22	105.	2.10	33.	33.	33.	9.68		
HYDROGRAPH AT	B-23	88.	1.00	16.	16.	16.	.26		
ROUTED TO	C-24A	86.	1.10	16.	16.	16.	.26	5115.27	1.10
HYDROGRAPH AT	B-24	182.	1.00	34.	34.	34.	.55		
2 COMBINED AT	AP-24	264.	1.07	50.	50.	50.	.81		
ROUTED TO	RR-4	0.	6.00	0.	0.	0.	.81	5000.09	6.00
HYDROGRAPH AT	B-25	6.	2.00	3.	3.	3.	.23		
ROUTED TO	C-26	6.	2.40	2.	2.	2.	.23	5776.01	2.37
HYDROGRAPH AT	B-26	0.	1.70	0.	0.	0.	.12		
3 COMBINED AT	AP-26	6.	2.40	3.	3.	3.	1.17		
ROUTED TO	RR-5	0.	.03	0.	0.	0.	1.17	5766.48	6.00
HYDROGRAPH AT	B-27	0.	6.00	0.	0.	0.	.05		
2 COMBINED AT	AP-26	0.	6.00	0.	0.	0.	1.21		
ROUTED TO	C-28A	0.	5.93	0.	0.	0.	1.21	5710.00	.00
ROUTED TO	C-28B	0.	5.93	0.	0.	0.	1.21	5540.00	.00
HYDROGRAPH AT	B-28	11.	2.27	5.	5.	5.	.83		
3 COMBINED AT	AP-29	115.	2.10	38.	38.	38.	11.72		
ROUTED TO	C-31A	110.	2.47	36.	36.	36.	11.72	5415.42	2.47
ROUTED TO	C-34A	108.	2.60	35.	35.	35.	11.72	5330.69	2.60
ROUTED TO	C-35A	108.	2.70	35.	35.	35.	11.72	5194.39	2.70
HYDROGRAPH AT	B-31	2.	1.50	1.	1.	1.	.43		
HYDROGRAPH AT	B-30	6.	1.23	2.	2.	2.	.35		
HYDROGRAPH AT	B-32	18.	1.60	6.	6.	6.	1.11		
3 COMBINED AT	AP-33	24.	1.53	9.	9.	9.	1.89		
ROUTED TO	C-34A	23.	1.77	9.	9.	9.	1.89	5330.21	1.77
HYDROGRAPH AT	B-34	1.	6.00	1.	1.	1.	.60		
2 COMBINED AT	AP-34	24.	1.77	9.	9.	9.	2.49		
ROUTED TO	C-35A	24.	1.87	9.	9.	9.	2.49	5194.09	1.87
HYDROGRAPH AT	B-35	76.	.57	7.	7.	7.	.13		
2 COMBINED AT	AP-35	76.	.57	16.	16.	16.	2.62		
2 COMBINED AT	AP-35	121.	2.67	51.	51.	51.	14.34		

HYDROGRAPH AT	B-40	0.	6.00	0.	0.	0.	.61		
HYDROGRAPH AT	B-41	1.	5.97	1.	1.	1.	.61		
2 COMBINED AT	AP-42	1.	6.00	1.	1.	1.	1.23		
ROUTED TO	RR-6	0.	.03	0.	0.	0.	1.23	5752.77	6.00
ROUTED TO	C-43A	0.	.03	0.	0.	0.	1.23	5730.00	.00
HYDROGRAPH AT	B-43	8.	1.63	3.	3.	3.	.49		
2 COMBINED AT	AP-43	8.	1.63	3.	3.	3.	1.72		
ROUTED TO	C-44A	8.	1.77	3.	3.	3.	1.72	5635.01	1.67
ROUTED TO	C-44B	7.	2.00	3.	3.	3.	1.72	5464.16	2.00
HYDROGRAPH AT	B-44	12.	1.77	5.	5.	5.	.85		
2 COMBINED AT	AP-44	19.	1.87	7.	7.	7.	2.57		
HYDROGRAPH AT	B-45	8.	1.20	2.	2.	2.	.24		
ROUTED TO	C-46A	8.	1.43	2.	2.	2.	.24	5480.04	1.40
HYDROGRAPH AT	B-46	3.	1.10	1.	1.	1.	.12		
3 COMBINED AT	AP-47	25.	1.73	10.	10.	10.	2.92		
ROUTED TO	C-48A	25.	1.90	10.	10.	10.	2.92	5376.17	1.90
ROUTED TO	C-48B	24.	2.07	9.	9.	9.	2.92	5340.50	2.03
HYDROGRAPH AT	B-48	1.	6.00	0.	0.	0.	.44		
2 COMBINED AT	AP-48	25.	2.07	10.	10.	10.	3.36		
HYDROGRAPH AT	B-37	5.	1.80	2.	2.	2.	.26		
ROUTED TO	C-38A	5.	2.13	2.	2.	2.	.26	5490.03	2.13
ROUTED TO	C-38B	5.	2.63	2.	2.	2.	.26	5390.06	2.63
HYDROGRAPH AT	B-38	4.	1.57	2.	2.	2.	.69		
2 COMBINED AT	AP-38	6.	2.63	3.	3.	3.	.95		
HYDROGRAPH AT	B-36	1.	6.00	0.	0.	0.	.35		
2 COMBINED AT	AP-39	7.	2.63	4.	4.	4.	1.30		
2 COMBINED AT	AP-49	30.	2.10	13.	13.	13.	4.67		
ROUTED TO	C-50A	30.	2.17	13.	13.	13.	4.67	5182.10	2.17
HYDROGRAPH AT	B-50	34.	.53	3.	3.	3.	.05		
3 COMBINED AT	AP-51	146.	2.67	67.	67.	67.	19.06		
ROUTED TO	C-53A	145.	2.77	66.	66.	66.	19.06	5166.80	2.77
HYDROGRAPH AT	B-53	99.	.57	9.	9.	9.	.16		

HYDROGRAPH AT	B-52	1.	6.00	0.	0.	0.	.32		
3 COMBINED AT	AP-53	178.	.60	75.	75.	75.	19.54		
ROUTED TO	C-54A	160.	.73	73.	73.	73.	19.54	5149.48	.73
HYDROGRAPH AT	B-54	40.	.67	5.	5.	5.	.09		
2 COMBINED AT	AP-54	197.	.70	78.	78.	78.	19.63		
ROUTED TO	C-57B	176.	.83	76.	76.	76.	19.63	5124.93	.83
HYDROGRAPH AT	B-57	19.	.60	2.	2.	2.	.03		
HYDROGRAPH AT	B-55	20.	1.30	6.	6.	6.	1.01		
ROUTED TO	C-56A	19.	1.53	6.	6.	6.	1.01	5140.09	1.53
HYDROGRAPH AT	B-56	166.	.67	20.	20.	20.	.38		
2 COMBINED AT	AP-56	166.	.67	26.	26.	26.	1.38		
ROUTED TO	C-57A	159.	.73	26.	26.	26.	1.38	5117.38	.73
3 COMBINED AT	AP-57	331.	.80	103.	103.	103.	21.05		
ROUTED TO	C-60A	322.	.83	102.	102.	102.	21.05	5115.34	.83
HYDROGRAPH AT	B-58	53.	.60	6.	6.	6.	.10		
HYDROGRAPH AT	B-59	53.	.73	7.	7.	7.	.12		
HYDROGRAPH AT	B-60	10.	.97	2.	2.	2.	.08		
4 COMBINED AT	AP-60	404.	.83	116.	116.	116.	21.34		
ROUTED TO	RR-7	62.	6.00	45.	45.	45.	21.34	5105.06	6.00

MARIPOSA BASIN MASTER PLAN
2 YEAR - 6 HOUR RAINFALL
EXISTING WITH NO IMPROVEMENTS

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD 6-HOUR	24-HOUR	72-HOUR	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
HYDROGRAPH AT	B-1	0.	.03	0.	0.	0.	.58		
HYDROGRAPH AT	B-2	0.	.03	0.	0.	0.	.19		
2 COMBINED AT	AP-3	0.	.03	0.	0.	0.	.78		
ROUTED TO	C-6A	0.	.03	0.	0.	0.	.78	5850.00	.00
ROUTED TO	C-6B	0.	.03	0.	0.	0.	.78	5816.00	.00
HYDROGRAPH AT	B-4	0.	.03	0.	0.	0.	1.01		
ROUTED TO	RR-1	0.	.03	0.	0.	0.	1.01	5848.00	.03
ROUTED TO	C-6F	0.	.03	0.	0.	0.	1.01	5852.00	.00
HYDROGRAPH AT	B-5	0.	.03	0.	0.	0.	.60		
ROUTED TO	C-6C	0.	.03	0.	0.	0.	.60	5860.00	.00
ROUTED TO	C-6D	0.	.03	0.	0.	0.	.60	5842.00	.00
ROUTED TO	C-6E	0.	.03	0.	0.	0.	.60	5816.00	.00
HYDROGRAPH AT	B-6	0.	.03	0.	0.	0.	1.76		
4 COMBINED AT	AP-6	0.	.03	0.	0.	0.	4.15		
ROUTED TO	RR-2	0.	.03	0.	0.	0.	4.15	5776.00	.03
ROUTED TO	C-7A	0.	.03	0.	0.	0.	4.15	5760.00	.00
HYDROGRAPH AT	B-7	0.	.03	0.	0.	0.	.18		
HYDROGRAPH AT	B-8	23.	1.83	8.	8.	8.	.75		
ROUTED TO	C-9A	21.	2.57	8.	8.	8.	.75	5852.09	2.53
ROUTED TO	C-9B	20.	2.93	7.	7.	7.	.75	5836.11	2.87
ROUTED TO	C-9C	20.	3.23	7.	7.	7.	.75	5776.06	3.20
HYDROGRAPH AT	B-9	0.	.03	0.	0.	0.	.57		
3 COMBINED AT	AP-10	20.	3.23	7.	7.	7.	1.49		
2 COMBINED AT	AP-10	20.	3.23	7.	7.	7.	5.65		
ROUTED TO	C-11A	19.	3.43	7.	7.	7.	5.65	5734.11	3.40
HYDROGRAPH AT	B-11	0.	.03	0.	0.	0.	.19		

2 COMBINED AT	AP-11	19.	3.43	7.	7.	7.	5.84		
ROUTED TO	C-12A	19.	3.63	7.	7.	7.	5.84	5706.11	3.57
HYDROGRAPH AT	B-12	0.	.03	0.	0.	0.	.06		
2 COMBINED AT	AP-12	19.	3.63	7.	7.	7.	5.89		
HYDROGRAPH AT	B-14	0.	.03	0.	0.	0.	.40		
ROUTED TO	C-15	0.	.03	0.	0.	0.	.40	5114.00	.00
HYDROGRAPH AT	B-15	0.	.03	0.	0.	0.	.33		
2 COMBINED AT	AP-15	0.	.03	0.	0.	0.	.72		
ROUTED TO	C-16	0.	.03	0.	0.	0.	.72	5114.00	.00
HYDROGRAPH AT	B-16	0.	.03	0.	0.	0.	1.01		
2 COMBINED AT	AP-16	0.	.03	0.	0.	0.	1.73		
ROUTED TO	C-17	0.	.03	0.	0.	0.	1.73	5790.00	.00
ROUTED TO	C-17A	0.	.03	0.	0.	0.	1.73	5790.00	.00
HYDROGRAPH AT	B-17	82.	1.03	16.	16.	16.	.53		
2 COMBINED AT	AP-17	82.	1.03	16.	16.	16.	2.26		
ROUTED TO	C-18A	81.	1.07	16.	16.	16.	2.26	5758.22	1.07
ROUTED TO	C-18B	79.	1.17	16.	16.	16.	2.26	5736.14	1.17
HYDROGRAPH AT	B-18	0.	6.00	0.	0.	0.	.20		
2 COMBINED AT	AP-18	79.	1.17	16.	16.	16.	2.47		
HYDROGRAPH AT	B-13	0.	.03	0.	0.	0.	.20		
2 COMBINED AT	AP-18	79.	1.17	16.	16.	16.	2.67		
ROUTED TO	C-19A	71.	1.57	16.	16.	16.	2.67	5712.20	1.57
HYDROGRAPH AT	B-19	0.	6.00	0.	0.	0.	.12		
2 COMBINED AT	AP-19	71.	1.57	16.	16.	16.	2.79		
2 COMBINED AT	AP-20	71.	1.60	23.	23.	23.	8.68		
ROUTED TO	C-21A	69.	1.83	22.	22.	22.	8.68	5656.61	1.83
ROUTED TO	C-22A	67.	2.00	22.	22.	22.	8.68	5600.30	2.00
ROUTED TO	C-22B	67.	2.13	21.	21.	21.	8.68	5500.29	2.13
HYDROGRAPH AT	B-21	1.	6.00	0.	0.	0.	.42		
ROUTED TO	C-22A	1.	6.00	0.	0.	0.	.42	5600.00	5.20
ROUTED TO	C-22B	1.	6.00	0.	0.	0.	.42	5500.00	5.50
HYDROGRAPH AT	B-22	0.	6.00	0.	0.	0.	.58		

2 COMBINED AT	AP-22	1.	6.00	0.	0.	0.	1.00		
2 COMBINED AT	AP-22	67.	2.13	22.	22.	22.	9.68		
HYDROGRAPH AT	B-23	68.	.97	12.	12.	12.	.26		
ROUTED TO	C-24A	67.	1.13	12.	12.	12.	.26	5115.09	1.10
HYDROGRAPH AT	B-24	141.	1.00	26.	26.	26.	.55		
2 COMBINED AT	AP-24	205.	1.03	39.	39.	39.	.81		
ROUTED TO	RR-4	0.	.03	0.	0.	0.	.81	4999.20	6.00
HYDROGRAPH AT	B-25	3.	2.00	1.	1.	1.	.23		
ROUTED TO	C-26	3.	2.40	1.	1.	1.	.23	5776.01	2.30
HYDROGRAPH AT	B-26	0.	5.97	0.	0.	0.	.12		
3 COMBINED AT	AP-26	3.	2.40	1.	1.	1.	1.17		
ROUTED TO	RR-5	0.	.03	0.	0.	0.	1.17	5766.17	6.00
HYDROGRAPH AT	B-27	0.	.03	0.	0.	0.	.05		
2 COMBINED AT	AP-26	0.	.03	0.	0.	0.	1.21		
ROUTED TO	C-28A	0.	.03	0.	0.	0.	1.21	5710.00	.00
ROUTED TO	C-28B	0.	.03	0.	0.	0.	1.21	5540.00	.00
HYDROGRAPH AT	B-28	3.	2.47	2.	2.	2.	.83		
3 COMBINED AT	AP-29	70.	2.13	24.	24.	24.	11.72		
ROUTED TO	C-31A	66.	2.50	23.	23.	23.	11.72	5415.25	2.50
ROUTED TO	C-34A	65.	2.67	22.	22.	22.	11.72	5330.55	2.67
ROUTED TO	C-35A	64.	2.77	22.	22.	22.	11.72	5194.23	2.77
HYDROGRAPH AT	B-31	0.	6.00	0.	0.	0.	.43		
HYDROGRAPH AT	B-30	1.	1.47	0.	0.	0.	.35		
HYDROGRAPH AT	B-32	4.	1.83	2.	2.	2.	1.11		
3 COMBINED AT	AP-33	5.	1.77	3.	3.	3.	1.89		
ROUTED TO	C-34A	5.	2.00	2.	2.	2.	1.89	5330.04	1.97
HYDROGRAPH AT	B-34	0.	6.00	0.	0.	0.	.60		
2 COMBINED AT	AP-34	5.	2.00	2.	2.	2.	2.49		
ROUTED TO	C-35A	5.	2.10	2.	2.	2.	2.49	5194.02	2.07
HYDROGRAPH AT	B-35	60.	.57	5.	5.	5.	.13		
2 COMBINED AT	AP-35	60.	.57	8.	8.	8.	2.62		
2 COMBINED AT	AP-35	68.	2.77	30.	30.	30.	14.34		

HYDROGRAPH AT	B-40	0.	.03	0.	0.	0.	.61		
HYDROGRAPH AT	B-41	0.	6.00	0.	0.	0.	.61		
2 COMBINED AT	AP-42	0.	6.00	0.	0.	0.	1.23		
ROUTED TO	RR-6	0.	.03	0.	0.	0.	1.23	5752.50	6.00
ROUTED TO	C-43A	0.	.03	0.	0.	0.	1.23	5730.00	.00
HYDROGRAPH AT	B-43	2.	1.83	1.	1.	1.	.49		
2 COMBINED AT	AP-43	2.	1.83	1.	1.	1.	1.72		
ROUTED TO	C-44A	2.	1.97	1.	1.	1.	1.72	5635.00	1.70
ROUTED TO	C-44B	2.	2.23	1.	1.	1.	1.72	5464.04	2.17
HYDROGRAPH AT	B-44	3.	1.97	1.	1.	1.	.85		
2 COMBINED AT	AP-44	4.	2.07	2.	2.	2.	2.57		
HYDROGRAPH AT	B-45	2.	1.33	1.	1.	1.	.24		
ROUTED TO	C-46A	2.	1.57	1.	1.	1.	.24	5480.01	1.53
HYDROGRAPH AT	B-46	1.	1.27	0.	0.	0.	.12		
3 COMBINED AT	AP-47	6.	1.87	3.	3.	3.	2.92		
ROUTED TO	C-48A	6.	2.07	3.	3.	3.	2.92	5376.04	2.03
ROUTED TO	C-48B	6.	2.33	3.	3.	3.	2.92	5340.15	2.33
HYDROGRAPH AT	B-48	0.	6.00	0.	0.	0.	.44		
2 COMBINED AT	AP-48	6.	2.33	3.	3.	3.	3.36		
HYDROGRAPH AT	B-37	2.	1.93	1.	1.	1.	.26		
ROUTED TO	C-38A	2.	2.27	1.	1.	1.	.26	5490.01	2.17
ROUTED TO	C-38B	2.	2.80	1.	1.	1.	.26	5390.02	2.70
HYDROGRAPH AT	B-38	1.	6.00	0.	0.	0.	.69		
2 COMBINED AT	AP-38	2.	2.83	1.	1.	1.	.95		
HYDROGRAPH AT	B-36	0.	.03	0.	0.	0.	.35		
2 COMBINED AT	AP-39	2.	2.83	1.	1.	1.	1.30		
2 COMBINED AT	AP-49	7.	2.47	4.	4.	4.	4.67		
ROUTED TO	C-50A	7.	2.53	4.	4.	4.	4.67	5182.02	2.43
HYDROGRAPH AT	B-50	28.	.53	2.	2.	2.	.05		
3 COMBINED AT	AP-51	86.	.53	36.	36.	36.	19.06		
ROUTED TO	C-53A	74.	2.87	35.	35.	35.	19.06	5166.53	2.87
HYDROGRAPH AT	B-53	75.	.57	7.	7.	7.	.16		

HYDROGRAPH AT	B-52	0.	6.00	0.	0.	0.	.32		
3 COMBINED AT	AP-53	134.	.60	42.	42.	42.	19.54		
ROUTED TO	C-54A	120.	.73	40.	40.	40.	19.54	5149.27	.73
HYDROGRAPH AT	B-54	32.	.67	4.	4.	4.	.09		
2 COMBINED AT	AP-54	149.	.70	44.	44.	44.	19.63		
ROUTED TO	C-57B	130.	.83	42.	42.	42.	19.63	5124.76	.83
HYDROGRAPH AT	B-57	14.	.60	1.	1.	1.	.03		
HYDROGRAPH AT	B-55	4.	1.50	2.	2.	2.	1.01		
ROUTED TO	C-56A	4.	1.77	2.	2.	2.	1.01	5140.02	1.77
HYDROGRAPH AT	B-56	131.	.67	15.	15.	15.	.38		
2 COMBINED AT	AP-56	131.	.67	17.	17.	17.	1.38		
ROUTED TO	C-57A	125.	.73	17.	17.	17.	1.38	5117.18	.73
3 COMBINED AT	AP-57	248.	.80	61.	61.	61.	21.05		
ROUTED TO	C-60A	238.	.87	60.	60.	60.	21.05	5115.13	.87
HYDROGRAPH AT	B-58	41.	.60	4.	4.	4.	.10		
HYDROGRAPH AT	B-59	41.	.70	5.	5.	5.	.12		
HYDROGRAPH AT	B-60	6.	.97	1.	1.	1.	.08		
4 COMBINED AT	AP-60	298.	.83	71.	71.	71.	21.34		
ROUTED TO	RR-7	40.	6.00	32.	32.	32.	21.34	5104.57	6.00

MARIPOSA BASIN MASTER PLAN
100 YEAR - 6 HOUR RAINFALL
DEVELOPED WITH NO IMPROVEMENTS

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD 6-HOUR	24-HOUR	72-HOUR	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
HYDROGRAPH AT	B-1	363.	1.07	73.	73.	73.	.58		
HYDROGRAPH AT	B-2	181.	.80	25.	25.	25.	.19		
2 COMBINED AT	AP-3	483.	.97	97.	97.	97.	.78		
ROUTED TO	C-6A	471.	1.17	96.	96.	96.	.78	5851.46	1.17
ROUTED TO	C-6B	462.	1.37	94.	94.	94.	.78	5817.03	1.37
HYDROGRAPH AT	B-4	759.	.93	127.	127.	127.	1.01		
ROUTED TO	RR-1	701.	1.03	114.	114.	114.	1.01	5866.96	1.03
ROUTED TO	C-6F	626.	1.47	108.	108.	108.	1.01	5852.84	1.47
HYDROGRAPH AT	B-5	286.	.90	49.	49.	49.	.60		
ROUTED TO	C-6C	208.	1.57	47.	47.	47.	.60	5860.35	1.57
ROUTED TO	C-6D	191.	1.77	46.	46.	46.	.60	5842.42	1.77
ROUTED TO	C-6E	187.	1.93	46.	46.	46.	.60	5816.70	1.93
HYDROGRAPH AT	B-6	851.	1.23	199.	199.	199.	1.76		
4 COMBINED AT	AP-6	1879.	1.40	446.	446.	446.	4.15		
ROUTED TO	RR-2	1863.	1.47	432.	432.	432.	4.15	5791.88	1.47
ROUTED TO	C-7A	1859.	1.50	428.	428.	428.	4.15	5763.96	1.50
HYDROGRAPH AT	B-7	95.	1.33	23.	23.	23.	.18		
2 COMBINED AT	AP-7	1948.	1.50	452.	452.	452.	4.33		
HYDROGRAPH AT	B-8	75.	1.93	29.	29.	29.	.75		
ROUTED TO	C-9A	68.	2.70	28.	28.	28.	.75	5852.30	2.70
ROUTED TO	C-9B	68.	2.90	27.	27.	27.	.75	5836.35	2.87
ROUTED TO	C-9C	67.	3.23	26.	26.	26.	.75	5776.21	3.20
HYDROGRAPH AT	B-9	371.	1.13	79.	79.	79.	.57		
3 COMBINED AT	AP-10	2223.	1.47	556.	556.	556.	5.65		
ROUTED TO	C-11A	2201.	1.53	552.	552.	552.	5.65	5736.63	1.53
HYDROGRAPH AT	B-11	206.	.73	26.	26.	26.	.19		

2 COMBINED AT	AP-11	2228.	1.53	579.	579.	579.	5.84		
ROUTED TO	C-12A	2206.	1.60	574.	574.	574.	5.84	5708.30	1.60
HYDROGRAPH AT	B-12	77.	.63	8.	8.	8.	.06		
2 COMBINED AT	AP-12	2211.	1.60	582.	582.	582.	5.89		
HYDROGRAPH AT	B-14	487.	.93	79.	79.	79.	.40		
ROUTED TO	C-15	485.	.97	79.	79.	79.	.40	5117.12	.97
HYDROGRAPH AT	B-15	365.	1.00	66.	66.	66.	.33		
2 COMBINED AT	AP-15	848.	.97	144.	144.	144.	.72		
ROUTED TO	C-16	847.	.97	144.	144.	144.	.72	5114.01	.97
HYDROGRAPH AT	B-16	1089.	1.03	201.	201.	201.	1.01		
2 COMBINED AT	AP-16	1931.	1.00	345.	345.	345.	1.73		
ROUTED TO	C-17	1901.	1.10	343.	343.	343.	1.73	5792.25	1.10
ROUTED TO	C-17A	1888.	1.20	341.	341.	341.	1.73	5792.56	1.20
HYDROGRAPH AT	B-17	591.	.93	98.	98.	98.	.53		
2 COMBINED AT	AP-17	2351.	1.13	438.	438.	438.	2.26		
ROUTED TO	C-18A	2348.	1.17	437.	437.	437.	2.26	5760.54	1.17
ROUTED TO	C-18B	2340.	1.20	436.	436.	436.	2.26	5737.65	1.20
HYDROGRAPH AT	B-18	334.	.70	38.	38.	38.	.20		
2 COMBINED AT	AP-18	2424.	1.20	474.	474.	474.	2.47		
HYDROGRAPH AT	B-13	302.	.77	38.	38.	38.	.20		
2 COMBINED AT	AP-18	2536.	1.17	512.	512.	512.	2.67		
ROUTED TO	RR-3	269.	2.67	201.	201.	201.	2.67	5007.99	2.67
ROUTED TO	C-19A	269.	2.87	188.	188.	188.	2.67	5712.55	2.73
HYDROGRAPH AT	B-19	149.	.63	15.	15.	15.	.12		
2 COMBINED AT	AP-19	272.	2.87	203.	203.	203.	2.79		
2 COMBINED AT	AP-20	2367.	1.63	786.	786.	786.	8.68		
ROUTED TO	C-21A	2346.	1.77	771.	771.	771.	8.68	5659.02	1.77
HYDROGRAPH AT	B-21	350.	.83	52.	52.	52.	.42		
2 COMBINED AT	AP-21	2393.	1.73	822.	822.	822.	9.10		
ROUTED TO	C-22A	2388.	1.80	815.	815.	815.	9.10	5603.08	1.80
ROUTED TO	C-22B	2386.	1.83	808.	808.	808.	9.10	5503.52	1.83
HYDROGRAPH AT	B-22	503.	.77	66.	66.	66.	.58		

2 COMBINED AT	AP-22	2417.	1.83	874.	874.	874.	9.68		
HYDROGRAPH AT	B-23	204.	1.00	37.	37.	37.	.26		
ROUTED TO	C-24A	202.	1.10	36.	36.	36.	.26	5116.00	1.10
HYDROGRAPH AT	B-24	422.	1.03	78.	78.	78.	.55		
2 COMBINED AT	AP-24	619.	1.03	115.	115.	115.	.81		
ROUTED TO	RR-4	22.	6.00	17.	17.	17.	.81	5003.26	6.00
HYDROGRAPH AT	B-25	37.	1.90	13.	13.	13.	.23		
ROUTED TO	C-26	35.	2.30	13.	13.	13.	.23	5776.07	2.27
HYDROGRAPH AT	B-26	65.	1.10	13.	13.	13.	.12		
3 COMBINED AT	AP-26	80.	1.20	43.	43.	43.	1.17		
ROUTED TO	RR-5	31.	6.00	6.	6.	6.	1.17	5770.20	6.00
HYDROGRAPH AT	B-27	52.	.80	7.	7.	7.	.05		
2 COMBINED AT	AP-26	52.	.80	13.	13.	13.	1.21		
ROUTED TO	C-28A	46.	1.17	11.	11.	11.	1.21	5710.11	1.13
ROUTED TO	C-28B	42.	1.43	10.	10.	10.	1.21	5540.15	1.43
HYDROGRAPH AT	B-28	105.	2.03	41.	41.	41.	.83		
3 COMBINED AT	AP-29	2542.	1.83	924.	924.	924.	11.72		
ROUTED TO	C-31A	2529.	1.93	904.	904.	904.	11.72	5418.20	1.93
HYDROGRAPH AT	B-31	256.	.97	45.	45.	45.	.43		
2 COMBINED AT	AP-31	2570.	1.93	949.	949.	949.	12.15		
HYDROGRAPH AT	B-30	371.	.83	53.	53.	53.	.35		
HYDROGRAPH AT	B-32	658.	1.23	148.	148.	148.	1.11		
3 COMBINED AT	AP-33	2889.	1.90	1151.	1151.	1151.	13.61		
ROUTED TO	C-34A	2878.	1.97	1139.	1139.	1139.	13.61	5333.32	1.97
HYDROGRAPH AT	B-34	379.	1.10	76.	76.	76.	.60		
2 COMBINED AT	AP-34	2977.	1.97	1215.	1215.	1215.	14.21		
ROUTED TO	C-35A	2973.	2.00	1209.	1209.	1209.	14.21	5196.27	2.00
HYDROGRAPH AT	B-35	189.	.57	17.	17.	17.	.13		
2 COMBINED AT	AP-35	2976.	2.00	1226.	1226.	1226.	14.34		
HYDROGRAPH AT	B-40	634.	.93	104.	104.	104.	.61		
HYDROGRAPH AT	B-41	69.	2.63	34.	34.	34.	.61		
2 COMBINED AT	AP-42	639.	.93	138.	138.	138.	1.23		

ROUTED TO	RR-6	89.	2.87	59.	59.	59.	1.23	5756.42	2.87
ROUTED TO	C-43A	89.	3.20	57.	57.	57.	1.23	5730.27	3.07
HYDROGRAPH AT	B-43	89.	1.40	24.	24.	24.	.49		
2 COMBINED AT	AP-43	123.	1.83	81.	81.	81.	1.72		
ROUTED TO	C-44A	123.	1.97	79.	79.	79.	1.72	5635.19	1.93
ROUTED TO	C-44B	123.	2.07	77.	77.	77.	1.72	5465.18	2.07
HYDROGRAPH AT	B-44	142.	1.50	41.	41.	41.	.85		
2 COMBINED AT	AP-44	240.	1.70	118.	118.	118.	2.57		
HYDROGRAPH AT	B-45	73.	1.03	14.	14.	14.	.24		
ROUTED TO	C-46A	71.	1.23	14.	14.	14.	.24	5480.39	1.23
HYDROGRAPH AT	B-46	88.	.77	12.	12.	12.	.12		
3 COMBINED AT	AP-47	299.	1.43	144.	144.	144.	2.92		
ROUTED TO	C-48A	298.	1.53	141.	141.	141.	2.92	5377.14	1.50
ROUTED TO	C-48B	297.	1.60	138.	138.	138.	2.92	5341.88	1.60
HYDROGRAPH AT	B-48	53.	1.70	18.	18.	18.	.44		
2 COMBINED AT	AP-48	350.	1.63	156.	156.	156.	3.36		
HYDROGRAPH AT	B-37	47.	1.60	14.	14.	14.	.26		
ROUTED TO	C-38A	46.	1.93	14.	14.	14.	.26	5490.26	1.90
ROUTED TO	C-38B	44.	2.30	13.	13.	13.	.26	5390.53	2.30
HYDROGRAPH AT	B-38	511.	.97	90.	90.	90.	.69		
3 COMBINED AT	AP-38	671.	1.07	260.	260.	260.	4.32		
HYDROGRAPH AT	B-36	307.	.93	51.	51.	51.	.35		
2 COMBINED AT	AP-39	961.	1.03	311.	311.	311.	4.67		
2 COMBINED AT	AP-49	3442.	1.97	1537.	1537.	1537.	19.01		
ROUTED TO	C-50A	3438.	1.97	1532.	1532.	1532.	19.01	5184.51	1.97
HYDROGRAPH AT	B-50	84.	.53	7.	7.	7.	.05		
2 COMBINED AT	AP-51	3439.	2.00	1539.	1539.	1539.	19.06		
ROUTED TO	C-53A	3435.	2.00	1530.	1530.	1530.	19.06	5170.20	2.00
HYDROGRAPH AT	B-53	255.	.57	22.	22.	22.	.16		
HYDROGRAPH AT	B-52	320.	.83	47.	47.	47.	.32		
3 COMBINED AT	AP-53	3567.	1.20	1598.	1598.	1598.	19.54		
ROUTED TO	C-54A	3558.	1.23	1586.	1586.	1586.	19.54	5153.92	1.23

HYDROGRAPH AT	B-54	96.	.67	11.	11.	11.	.09		
2 COMBINED AT	AP-54	3579.	1.23	1597.	1597.	1597.	19.63		
ROUTED TO	C-57B	3569.	1.27	1584.	1584.	1584.	19.63	5129.64	1.27
HYDROGRAPH AT	B-57	47.	.63	5.	5.	5.	.03		
HYDROGRAPH AT	B-55	936.	.93	155.	155.	155.	1.01		
ROUTED TO	C-56A	927.	1.03	154.	154.	154.	1.01	5141.49	1.03
HYDROGRAPH AT	B-56	404.	.70	47.	47.	47.	.38		
2 COMBINED AT	AP-56	1115.	.97	201.	201.	201.	1.38		
ROUTED TO	C-57A	1111.	1.00	200.	200.	200.	1.38	5120.29	1.00
3 COMBINED AT	AP-57	4431.	1.23	1789.	1789.	1789.	21.05		
ROUTED TO	C-60A	4421.	1.23	1783.	1783.	1783.	21.05	5120.31	1.23
HYDROGRAPH AT	B-58	133.	.60	13.	13.	13.	.10		
HYDROGRAPH AT	B-59	131.	.73	16.	16.	16.	.12		
HYDROGRAPH AT	B-60	42.	.93	7.	7.	7.	.08		
4 COMBINED AT	AP-60	4506.	1.23	1819.	1819.	1819.	21.34		
ROUTED TO	RR-7	2086.	2.90	937.	937.	937.	21.34	5116.89	2.90

MARIPOSA BASIN MASTER PLAN
50 YEAR - 6 HOUR RAINFALL
DEVELOPED WITH NO IMPROVEMENTS

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD 6-HOUR	24-HOUR	72-HOUR	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
HYDROGRAPH AT	B-1	322.	1.07	65.	65.	65.	.58		
HYDROGRAPH AT	B-2	160.	.80	22.	22.	22.	.19		
2 COMBINED AT	AP-3	429.	.97	87.	87.	87.	.78		
ROUTED TO	C-6A	418.	1.17	85.	85.	85.	.78	5851.36	1.17
ROUTED TO	C-6B	410.	1.37	84.	84.	84.	.78	5816.96	1.37
HYDROGRAPH AT	B-4	672.	.93	113.	113.	113.	1.01		
ROUTED TO	RR-1	612.	1.07	100.	100.	100.	1.01	5866.77	1.07
ROUTED TO	C-6F	543.	1.50	95.	95.	95.	1.01	5852.77	1.50
HYDROGRAPH AT	B-5	247.	.90	43.	43.	43.	.60		
ROUTED TO	C-6C	168.	1.67	41.	41.	41.	.60	5860.32	1.63
ROUTED TO	C-6D	160.	1.90	40.	40.	40.	.60	5842.37	1.87
ROUTED TO	C-6E	159.	2.03	40.	40.	40.	.60	5816.64	2.03
HYDROGRAPH AT	B-6	754.	1.23	176.	176.	176.	1.76		
4 COMBINED AT	AP-6	1632.	1.43	395.	395.	395.	4.15		
ROUTED TO	RR-2	1616.	1.47	380.	380.	380.	4.15	5791.73	1.47
ROUTED TO	C-7A	1611.	1.53	377.	377.	377.	4.15	5763.67	1.53
HYDROGRAPH AT	B-7	84.	1.33	21.	21.	21.	.18		
2 COMBINED AT	AP-7	1688.	1.53	398.	398.	398.	4.33		
HYDROGRAPH AT	B-8	63.	1.93	24.	24.	24.	.75		
ROUTED TO	C-9A	57.	2.70	23.	23.	23.	.75	5852.25	2.67
ROUTED TO	C-9B	56.	2.97	23.	23.	23.	.75	5836.32	2.97
ROUTED TO	C-9C	55.	3.30	22.	22.	22.	.75	5776.17	3.30
HYDROGRAPH AT	B-9	332.	1.13	71.	71.	71.	.57		
3 COMBINED AT	AP-10	1921.	1.50	490.	490.	490.	5.65		
ROUTED TO	C-11A	1903.	1.57	486.	486.	486.	5.65	5736.45	1.57
HYDROGRAPH AT	B-11	183.	.77	23.	23.	23.	.19		

2 COMBINED AT	AP-11	1926.	1.57	510.	510.	510.	5.84		
ROUTED TO	C-12A	1907.	1.63	506.	506.	506.	5.84	5708.16	1.63
HYDROGRAPH AT	B-12	68.	.63	7.	7.	7.	.06		
2 COMBINED AT	AP-12	1911.	1.63	513.	513.	513.	5.89		
HYDROGRAPH AT	B-14	443.	.93	72.	72.	72.	.40		
ROUTED TO	C-15	441.	.97	72.	72.	72.	.40	5116.99	.97
HYDROGRAPH AT	B-15	332.	1.00	60.	60.	60.	.33		
2 COMBINED AT	AP-15	772.	.97	132.	132.	132.	.72		
ROUTED TO	C-16	771.	.97	132.	132.	132.	.72	5114.01	.93
HYDROGRAPH AT	B-16	991.	1.03	183.	183.	183.	1.01		
2 COMBINED AT	AP-16	1758.	1.00	315.	315.	315.	1.73		
ROUTED TO	C-17	1731.	1.10	313.	313.	313.	1.73	5792.12	1.10
ROUTED TO	C-17A	1720.	1.20	310.	310.	310.	1.73	5792.46	1.20
HYDROGRAPH AT	B-17	535.	.93	89.	89.	89.	.53		
2 COMBINED AT	AP-17	2138.	1.13	399.	399.	399.	2.26		
ROUTED TO	C-18A	2135.	1.17	398.	398.	398.	2.26	5760.43	1.17
ROUTED TO	C-18B	2128.	1.20	397.	397.	397.	2.26	5737.59	1.20
HYDROGRAPH AT	B-18	302.	.70	35.	35.	35.	.20		
2 COMBINED AT	AP-18	2204.	1.20	432.	432.	432.	2.47		
HYDROGRAPH AT	B-13	274.	.77	35.	35.	35.	.20		
2 COMBINED AT	AP-18	2305.	1.17	467.	467.	467.	2.67		
ROUTED TO	RR-3	252.	2.63	186.	186.	186.	2.67	5007.40	2.63
ROUTED TO	C-19A	252.	2.87	174.	174.	174.	2.67	5712.53	2.83
HYDROGRAPH AT	B-19	131.	.63	14.	14.	14.	.12		
2 COMBINED AT	AP-19	256.	2.87	188.	188.	188.	2.79		
2 COMBINED AT	AP-20	2046.	1.67	700.	700.	700.	8.68		
ROUTED TO	C-21A	2027.	1.77	687.	687.	687.	8.68	5658.84	1.77
HYDROGRAPH AT	B-21	306.	.83	46.	46.	46.	.42		
2 COMBINED AT	AP-21	2067.	1.77	732.	732.	732.	9.10		
ROUTED TO	C-22A	2063.	1.83	725.	725.	725.	9.10	5602.84	1.83
ROUTED TO	C-22B	2061.	1.87	719.	719.	719.	9.10	5503.25	1.87
HYDROGRAPH AT	B-22	438.	.77	58.	58.	58.	.58		

2 COMBINED AT	AP-22	2085.	1.87	777.	777.	777.	9.68		
HYDROGRAPH AT	B-23	182.	1.00	33.	33.	33.	.26		
ROUTED TO	C-24A	180.	1.10	33.	33.	33.	.26	5115.88	1.10
HYDROGRAPH AT	B-24	376.	1.03	70.	70.	70.	.55		
2 COMBINED AT	AP-24	552.	1.03	103.	103.	103.	.81		
ROUTED TO	RR-4	21.	6.00	16.	16.	16.	.81	5002.92	6.00
HYDROGRAPH AT	B-25	30.	1.93	11.	11.	11.	.23		
ROUTED TO	C-26	29.	2.30	11.	11.	11.	.23	5776.06	2.27
HYDROGRAPH AT	B-26	55.	1.10	11.	11.	11.	.12		
3 COMBINED AT	AP-26	68.	1.20	38.	38.	38.	1.17		
ROUTED TO	RR-5	20.	6.00	1.	1.	1.	1.17	5770.15	6.00
HYDROGRAPH AT	B-27	47.	.80	6.	6.	6.	.05		
2 COMBINED AT	AP-26	47.	.80	8.	8.	8.	1.21		
ROUTED TO	C-28A	41.	1.17	7.	7.	7.	1.21	5710.10	1.13
ROUTED TO	C-28B	38.	1.43	6.	6.	6.	1.21	5540.13	1.43
HYDROGRAPH AT	B-28	85.	2.03	34.	34.	34.	.83		
3 COMBINED AT	AP-29	2188.	1.87	817.	817.	817.	11.72		
ROUTED TO	C-31A	2173.	1.97	798.	798.	798.	11.72	5417.94	1.97
HYDROGRAPH AT	B-31	223.	.97	40.	40.	40.	.43		
2 COMBINED AT	AP-31	2206.	1.97	838.	838.	838.	12.15		
HYDROGRAPH AT	B-30	329.	.83	48.	48.	48.	.35		
HYDROGRAPH AT	B-32	582.	1.23	132.	132.	132.	1.11		
3 COMBINED AT	AP-33	2470.	1.93	1018.	1018.	1018.	13.61		
ROUTED TO	C-34A	2462.	2.00	1007.	1007.	1007.	13.61	5333.12	2.00
HYDROGRAPH AT	B-34	334.	1.10	67.	67.	67.	.60		
2 COMBINED AT	AP-34	2544.	2.00	1074.	1074.	1074.	14.21		
ROUTED TO	C-35A	2541.	2.03	1069.	1069.	1069.	14.21	5196.13	2.03
HYDROGRAPH AT	B-35	166.	.57	15.	15.	15.	.13		
2 COMBINED AT	AP-35	2545.	2.03	1084.	1084.	1084.	14.34		
HYDROGRAPH AT	B-40	570.	.93	94.	94.	94.	.61		
HYDROGRAPH AT	B-41	57.	2.67	28.	28.	28.	.61		
2 COMBINED AT	AP-42	575.	.93	122.	122.	122.	1.23		

ROUTED TO	RR-6	69.	3.27	45.	45.	45.	1.23	5756.31	3.27
ROUTED TO	C-43A	69.	3.53	44.	44.	44.	1.23	5730.21	3.50
HYDROGRAPH AT	B-43	71.	1.40	19.	19.	19.	.49		
2 COMBINED AT	AP-43	89.	1.87	63.	63.	63.	1.72		
ROUTED TO	C-44A	89.	2.00	62.	62.	62.	1.72	5635.14	1.97
ROUTED TO	C-44B	89.	2.10	60.	60.	60.	1.72	5465.04	2.10
HYDROGRAPH AT	B-44	114.	1.53	33.	33.	33.	.85		
2 COMBINED AT	AP-44	185.	1.63	93.	93.	93.	2.57		
HYDROGRAPH AT	B-45	59.	1.03	11.	11.	11.	.24		
ROUTED TO	C-46A	57.	1.23	11.	11.	11.	.24	5460.31	1.23
HYDROGRAPH AT	B-46	76.	.77	10.	10.	10.	.12		
3 COMBINED AT	AP-47	240.	1.43	115.	115.	115.	2.92		
ROUTED TO	C-49A	238.	1.53	112.	112.	112.	2.92	5377.01	1.53
ROUTED TO	C-48B	238.	1.63	110.	110.	110.	2.92	5341.70	1.63
HYDROGRAPH AT	B-48	43.	1.70	15.	15.	15.	.44		
2 COMBINED AT	AP-48	280.	1.63	125.	125.	125.	3.36		
HYDROGRAPH AT	B-37	38.	1.60	12.	12.	12.	.26		
ROUTED TO	C-38A	37.	1.93	11.	11.	11.	.26	5490.21	1.93
ROUTED TO	C-38B	35.	2.47	11.	11.	11.	.26	5390.45	2.47
HYDROGRAPH AT	B-38	451.	.97	80.	80.	80.	.69		
3 COMBINED AT	AP-38	577.	1.07	216.	216.	216.	4.32		
HYDROGRAPH AT	B-36	273.	.93	46.	46.	46.	.35		
2 COMBINED AT	AP-39	836.	1.03	262.	262.	262.	4.67		
2 COMBINED AT	AP-49	2931.	1.17	1345.	1345.	1345.	19.01		
ROUTED TO	C-50A	2931.	1.20	1341.	1341.	1341.	19.01	5184.31	1.20
HYDROGRAPH AT	B-50	74.	.53	6.	6.	6.	.05		
2 COMBINED AT	AP-51	2937.	1.20	1347.	1347.	1347.	19.06		
ROUTED TO	C-53A	2930.	1.23	1339.	1339.	1339.	19.06	5169.91	1.23
HYDROGRAPH AT	B-53	225.	.57	19.	19.	19.	.16		
HYDROGRAPH AT	B-52	284.	.83	42.	42.	42.	.32		
3 COMBINED AT	AP-53	3090.	1.23	1400.	1400.	1400.	19.54		
ROUTED TO	C-54A	3083.	1.27	1389.	1389.	1389.	19.54	5153.59	1.27

HYDROGRAPH AT	B-54	85.	.67	10.	10.	10.	.09		
2 COMBINED AT	AP-54	3099.	1.27	1398.	1398.	1398.	19.63		
ROUTED TO	C-57B	3091.	1.30	1387.	1387.	1387.	19.63	5129.19	1.30
HYDROGRAPH AT	B-57	42.	.63	4.	4.	4.	.03		
HYDROGRAPH AT	B-55	833.	.93	139.	139.	139.	1.01		
ROUTED TO	C-56A	826.	1.03	138.	138.	138.	1.01	5141.40	1.03
HYDROGRAPH AT	B-56	357.	.70	42.	42.	42.	.38		
2 COMBINED AT	AP-56	992.	.97	180.	180.	180.	1.38		
ROUTED TO	C-57A	988.	1.00	179.	179.	179.	1.38	5120.01	1.00
3 COMBINED AT	AP-57	3832.	1.23	1570.	1570.	1570.	21.05		
ROUTED TO	C-60A	3828.	1.27	1564.	1564.	1564.	21.05	5119.84	1.27
HYDROGRAPH AT	B-58	118.	.60	12.	12.	12.	.10		
HYDROGRAPH AT	B-59	116.	.73	15.	15.	15.	.12		
HYDROGRAPH AT	B-60	35.	.93	6.	6.	6.	.08		
4 COMBINED AT	AP-60	3896.	1.27	1596.	1596.	1596.	21.34		
ROUTED TO	RR-7	1393.	3.33	723.	723.	723.	21.34	5116.37	3.33

MARIPOSA BASIN MASTER PLAN
25 YEAR - 6 HOUR RAINFALL
DEVELOPED WITH NO IMPROVEMENTS

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD 6-HOUR	24-HOUR	72-HOUR	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
HYDROGRAPH AT	B-1	267.	1.07	54.	54.	54.	.58		
HYDROGRAPH AT	B-2	132.	.80	18.	18.	18.	.19		
2 COMBINED AT	AP-3	356.	.97	72.	72.	72.	.78		
ROUTED TO	C-6A	347.	1.17	71.	71.	71.	.78	5851.24	1.17
ROUTED TO	C-6B	339.	1.37	70.	70.	70.	.78	5816.87	1.37
HYDROGRAPH AT	B-4	556.	.93	94.	94.	94.	1.01		
ROUTED TO	RR-1	495.	1.07	82.	82.	82.	1.01	5866.49	1.07
ROUTED TO	C-6F	426.	1.53	77.	77.	77.	1.01	5852.67	1.53
HYDROGRAPH AT	B-5	198.	.90	35.	35.	35.	.60		
ROUTED TO	C-6C	135.	1.80	33.	33.	33.	.60	5860.26	1.80
ROUTED TO	C-6D	130.	1.97	33.	33.	33.	.60	5842.32	1.97
ROUTED TO	C-6E	129.	2.13	32.	32.	32.	.60	5816.58	2.13
HYDROGRAPH AT	B-6	626.	1.23	146.	146.	146.	1.76		
4 COMBINED AT	AP-6	1289.	1.50	325.	325.	325.	4.15		
ROUTED TO	RR-2	1276.	1.53	311.	311.	311.	4.15	5791.51	1.53
ROUTED TO	C-7A	1270.	1.57	308.	308.	308.	4.15	5763.23	1.57
HYDROGRAPH AT	B-7	70.	1.30	17.	17.	17.	.18		
2 COMBINED AT	AP-7	1332.	1.57	325.	325.	325.	4.33		
HYDROGRAPH AT	B-8	48.	1.90	19.	19.	19.	.75		
ROUTED TO	C-9A	44.	2.67	18.	18.	18.	.75	5852.19	2.63
ROUTED TO	C-9B	43.	3.00	17.	17.	17.	.75	5836.25	3.00
ROUTED TO	C-9C	42.	3.33	17.	17.	17.	.75	5776.13	3.30
HYDROGRAPH AT	B-9	279.	1.13	59.	59.	59.	.57		
3 COMBINED AT	AP-10	1515.	1.57	402.	402.	402.	5.65		
ROUTED TO	C-11A	1498.	1.63	398.	398.	398.	5.65	5736.19	1.63
HYDROGRAPH AT	B-11	151.	.77	20.	20.	20.	.19		

2 COMBINED AT	AP-11	1514.	1.63	418.	418.	418.	5.84		
ROUTED TO	C-12A	1497.	1.70	414.	414.	414.	5.84	5707.92	1.70
HYDROGRAPH AT	B-12	56.	.63	6.	6.	6.	.06		
2 COMBINED AT	AP-12	1500.	1.70	420.	420.	420.	5.89		
HYDROGRAPH AT	B-14	382.	.93	62.	62.	62.	.40		
ROUTED TO	C-15	381.	.97	62.	62.	62.	.40	5116.77	.97
HYDROGRAPH AT	B-15	287.	1.00	52.	52.	52.	.33		
2 COMBINED AT	AP-15	666.	.97	114.	114.	114.	.72		
ROUTED TO	C-16	666.	.97	114.	114.	114.	.72	5114.01	.93
HYDROGRAPH AT	B-16	856.	1.03	159.	159.	159.	1.01		
2 COMBINED AT	AP-16	1518.	1.00	272.	272.	272.	1.73		
ROUTED TO	C-17	1495.	1.10	271.	271.	271.	1.73	5791.93	1.10
ROUTED TO	C-17A	1485.	1.20	269.	269.	269.	1.73	5792.31	1.20
HYDROGRAPH AT	B-17	458.	.93	76.	76.	76.	.53		
2 COMBINED AT	AP-17	1842.	1.13	345.	345.	345.	2.26		
ROUTED TO	C-18A	1840.	1.17	344.	344.	344.	2.26	5760.28	1.17
ROUTED TO	C-18B	1831.	1.20	343.	343.	343.	2.26	5737.50	1.20
HYDROGRAPH AT	B-18	258.	.70	30.	30.	30.	.20		
2 COMBINED AT	AP-18	1896.	1.20	373.	373.	373.	2.47		
HYDROGRAPH AT	B-13	236.	.73	30.	30.	30.	.20		
2 COMBINED AT	AP-18	1978.	1.20	403.	403.	403.	2.67		
ROUTED TO	RR-3	227.	2.63	164.	164.	164.	2.67	5006.57	2.63
ROUTED TO	C-19A	227.	2.87	153.	153.	153.	2.67	5712.50	2.77
HYDROGRAPH AT	B-19	107.	.63	11.	11.	11.	.12		
2 COMBINED AT	AP-19	230.	2.83	164.	164.	164.	2.79		
2 COMBINED AT	AP-20	1611.	1.70	584.	584.	584.	8.68		
ROUTED TO	C-21A	1594.	1.83	572.	572.	572.	8.68	5658.58	1.83
HYDROGRAPH AT	B-21	248.	.83	38.	38.	38.	.42		
2 COMBINED AT	AP-21	1622.	1.83	610.	610.	610.	9.10		
ROUTED TO	C-22A	1618.	1.90	603.	603.	603.	9.10	5602.53	1.90
ROUTED TO	C-22B	1617.	1.93	598.	598.	598.	9.10	5502.81	1.93
HYDROGRAPH AT	B-22	353.	.77	47.	47.	47.	.58		

2 COMBINED AT	AP-22	1633.	1.93	645.	645.	645.	9.68		
HYDROGRAPH AT	B-23	152.	1.00	28.	28.	28.	.26		
ROUTED TO	C-24A	150.	1.10	27.	27.	27.	.26	5115.72	1.10
HYDROGRAPH AT	B-24	314.	1.03	59.	59.	59.	.55		
2 COMBINED AT	AP-24	460.	1.07	86.	86.	86.	.81		
ROUTED TO	RR-4	18.	6.00	14.	14.	14.	.81	5002.45	6.00
HYDROGRAPH AT	B-25	22.	1.93	8.	8.	8.	.23		
ROUTED TO	C-26	21.	2.33	8.	8.	8.	.23	5776.04	2.27
HYDROGRAPH AT	B-26	43.	1.10	8.	8.	8.	.12		
3 COMBINED AT	AP-26	53.	1.23	30.	30.	30.	1.17		
ROUTED TO	RR-5	0.	6.00	0.	0.	0.	1.17	5769.77	6.00
HYDROGRAPH AT	B-27	40.	.80	5.	5.	5.	.05		
2 COMBINED AT	AP-26	40.	.80	5.	5.	5.	1.21		
ROUTED TO	C-28A	35.	1.17	5.	5.	5.	1.21	5710.09	1.13
ROUTED TO	C-28B	32.	1.43	5.	5.	5.	1.21	5540.11	1.43
HYDROGRAPH AT	B-28	59.	2.07	24.	24.	24.	.83		
3 COMBINED AT	AP-29	1706.	1.93	674.	674.	674.	11.72		
ROUTED TO	C-31A	1696.	2.03	658.	658.	658.	11.72	5417.57	2.03
HYDROGRAPH AT	B-31	179.	.97	32.	32.	32.	.43		
2 COMBINED AT	AP-31	1718.	2.03	690.	690.	690.	12.15		
HYDROGRAPH AT	B-30	273.	.83	40.	40.	40.	.35		
HYDROGRAPH AT	B-32	481.	1.23	110.	110.	110.	1.11		
3 COMBINED AT	AP-33	1913.	2.00	840.	840.	840.	13.61		
ROUTED TO	C-34A	1908.	2.07	831.	831.	831.	13.61	5332.78	2.07
HYDROGRAPH AT	B-34	274.	1.10	56.	56.	56.	.60		
2 COMBINED AT	AP-34	1967.	2.07	886.	886.	886.	14.21		
ROUTED TO	C-35A	1965.	2.10	881.	881.	881.	14.21	5195.88	2.10
HYDROGRAPH AT	B-35	136.	.57	12.	12.	12.	.13		
2 COMBINED AT	AP-35	1969.	2.10	894.	894.	894.	14.34		
HYDROGRAPH AT	B-40	484.	.93	80.	80.	80.	.61		
HYDROGRAPH AT	B-41	41.	2.67	20.	20.	20.	.61		
2 COMBINED AT	AP-42	487.	.93	100.	100.	100.	1.23		

ROUTED TO	RR-6	44.	3.77	28.	28.	28.	1.23	5756.17	3.77
ROUTED TO	C-43A	44.	4.10	26.	26.	26.	1.23	5730.13	3.97
HYDROGRAPH AT	B-43	49.	1.43	14.	14.	14.	.49		
2 COMBINED AT	AP-43	50.	4.00	40.	40.	40.	1.72		
ROUTED TO	C-44A	50.	4.13	39.	39.	39.	1.72	5635.08	3.97
ROUTED TO	C-44B	50.	4.23	38.	38.	38.	1.72	5464.89	4.20
HYDROGRAPH AT	B-44	78.	1.53	24.	24.	24.	.85		
2 COMBINED AT	AP-44	126.	1.60	61.	61.	61.	2.57		
HYDROGRAPH AT	B-45	41.	1.03	8.	8.	8.	.24		
ROUTED TO	C-46A	40.	1.27	8.	8.	8.	.24	5480.22	1.27
HYDROGRAPH AT	B-46	59.	.77	8.	8.	8.	.12		
3 COMBINED AT	AP-47	166.	1.50	78.	78.	78.	2.92		
ROUTED TO	C-48A	163.	1.60	76.	76.	76.	2.92	5376.79	1.60
ROUTED TO	C-48B	162.	1.70	74.	74.	74.	2.92	5341.40	1.70
HYDROGRAPH AT	B-48	31.	1.67	11.	11.	11.	.44		
2 COMBINED AT	AP-48	193.	1.70	85.	85.	85.	3.36		
HYDROGRAPH AT	B-37	27.	1.63	9.	9.	9.	.26		
ROUTED TO	C-38A	26.	1.97	8.	8.	8.	.26	5490.15	1.93
ROUTED TO	C-38B	25.	2.47	8.	8.	8.	.26	5390.32	2.47
HYDROGRAPH AT	B-38	370.	.97	66.	66.	66.	.69		
3 COMBINED AT	AP-38	456.	1.07	159.	159.	159.	4.32		
HYDROGRAPH AT	B-36	226.	.93	38.	38.	38.	.35		
2 COMBINED AT	AP-39	671.	1.03	197.	197.	197.	4.67		
2 COMBINED AT	AP-49	2319.	1.20	1091.	1091.	1091.	19.01		
ROUTED TO	C-50A	2317.	1.23	1087.	1087.	1087.	19.01	5184.05	1.23
HYDROGRAPH AT	B-50	60.	.53	5.	5.	5.	.05		
2 COMBINED AT	AP-51	2322.	1.23	1092.	1092.	1092.	19.06		
ROUTED TO	C-53A	2319.	1.27	1085.	1085.	1085.	19.06	5169.50	1.27
HYDROGRAPH AT	B-53	184.	.57	16.	16.	16.	.16		
HYDROGRAPH AT	B-52	236.	.83	35.	35.	35.	.32		
3 COMBINED AT	AP-53	2450.	1.23	1136.	1136.	1136.	19.54		
ROUTED TO	C-54A	2444.	1.27	1126.	1126.	1126.	19.54	5153.07	1.27

HYDROGRAPH AT	B-54	70.	.67	8.	8.	8.	.09		
2 COMBINED AT	AP-54	2458.	1.27	1134.	1134.	1134.	19.63		
ROUTED TO	C-57B	2452.	1.33	1124.	1124.	1124.	19.63	5128.53	1.33
HYDROGRAPH AT	B-57	34.	.63	3.	3.	3.	.03		
HYDROGRAPH AT	B-55	694.	.93	117.	117.	117.	1.01		
ROUTED TO	C-56A	688.	1.03	116.	116.	116.	1.01	5141.28	1.03
HYDROGRAPH AT	B-56	293.	.70	35.	35.	35.	.38		
2 COMBINED AT	AP-56	819.	1.00	151.	151.	151.	1.38		
ROUTED TO	C-57A	815.	1.00	150.	150.	150.	1.38	5119.59	1.00
3 COMBINED AT	AP-57	3084.	1.23	1278.	1278.	1278.	21.05		
ROUTED TO	C-60A	3079.	1.27	1272.	1272.	1272.	21.05	5119.15	1.27
HYDROGRAPH AT	B-58	97.	.60	10.	10.	10.	.10		
HYDROGRAPH AT	B-59	96.	.73	12.	12.	12.	.12		
HYDROGRAPH AT	B-60	27.	.93	5.	5.	5.	.08		
4 COMBINED AT	AP-60	3134.	1.27	1299.	1299.	1299.	21.34		
ROUTED TO	RR-7	686.	4.90	489.	489.	489.	21.34	5115.01	4.90

MARIPOSA BASIN MASTER PLAN
10 YEAR - 6 HOUR RAINFALL
DEVELOPED WITH NO IMPROVEMENTS

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD 6-HOUR	24-HOUR	72-HOUR	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
HYDROGRAPH AT	B-1	199.	1.07	40.	40.	40.	.58		
HYDROGRAPH AT	B-2	98.	.77	14.	14.	14.	.19		
2 COMBINED AT	AP-3	266.	.97	54.	54.	54.	.78		
ROUTED TO	C-6A	257.	1.17	53.	53.	53.	.78	5851.08	1.17
ROUTED TO	C-6B	239.	1.50	52.	52.	52.	.78	5816.74	1.50
HYDROGRAPH AT	B-4	414.	.90	70.	70.	70.	1.01		
ROUTED TO	RR-1	350.	1.10	58.	58.	58.	1.01	5866.05	1.10
ROUTED TO	C-6F	289.	1.67	55.	55.	55.	1.01	5852.53	1.67
HYDROGRAPH AT	B-5	142.	.87	25.	25.	25.	.60		
ROUTED TO	C-6C	96.	1.80	24.	24.	24.	.60	5860.19	1.77
ROUTED TO	C-6D	93.	1.97	23.	23.	23.	.60	5842.27	1.97
ROUTED TO	C-6E	89.	2.27	23.	23.	23.	.60	5816.45	2.27
HYDROGRAPH AT	B-6	469.	1.23	109.	109.	109.	1.76		
4 COMBINED AT	AP-6	880.	1.60	239.	239.	239.	4.15		
ROUTED TO	RR-2	871.	1.63	225.	225.	225.	4.15	5791.21	1.63
ROUTED TO	C-7A	868.	1.70	222.	222.	222.	4.15	5762.62	1.70
HYDROGRAPH AT	B-7	52.	1.30	13.	13.	13.	.18		
2 COMBINED AT	AP-7	907.	1.70	235.	235.	235.	4.33		
HYDROGRAPH AT	B-8	34.	1.87	13.	13.	13.	.75		
ROUTED TO	C-9A	31.	2.60	12.	12.	12.	.75	5852.14	2.60
ROUTED TO	C-9B	30.	2.93	12.	12.	12.	.75	5836.17	2.90
ROUTED TO	C-9C	30.	3.27	12.	12.	12.	.75	5776.09	3.23
HYDROGRAPH AT	B-9	212.	1.13	45.	45.	45.	.57		
3 COMBINED AT	AP-10	1022.	1.67	292.	292.	292.	5.65		
ROUTED TO	C-11A	1011.	1.73	289.	289.	289.	5.65	5735.81	1.73
HYDROGRAPH AT	B-11	111.	.73	15.	15.	15.	.19		

2 COMBINED AT	AP-11	1021.	1.73	304.	304.	304.	5.84		
ROUTED TO	C-12A	1009.	1.80	301.	301.	301.	5.84	5707.60	1.80
HYDROGRAPH AT	B-12	41.	.63	4.	4.	4.	.06		
2 COMBINED AT	AP-12	1010.	1.80	306.	306.	306.	5.89		
HYDROGRAPH AT	B-14	302.	.93	50.	50.	50.	.40		
ROUTED TO	C-15	301.	.97	49.	49.	49.	.40	5116.46	.97
HYDROGRAPH AT	B-15	227.	1.00	41.	41.	41.	.33		
2 COMBINED AT	AP-15	526.	.97	90.	90.	90.	.72		
ROUTED TO	C-16	526.	1.00	90.	90.	90.	.72	5114.01	.90
HYDROGRAPH AT	B-16	677.	1.03	126.	126.	126.	1.01		
2 COMBINED AT	AP-16	1201.	1.00	216.	216.	216.	1.73		
ROUTED TO	C-17	1182.	1.10	215.	215.	215.	1.73	5791.68	1.10
ROUTED TO	C-17A	1169.	1.20	213.	213.	213.	1.73	5792.06	1.20
HYDROGRAPH AT	B-17	357.	.93	60.	60.	60.	.53		
2 COMBINED AT	AP-17	1437.	1.17	273.	273.	273.	2.26		
ROUTED TO	C-18A	1432.	1.20	272.	272.	272.	2.26	5760.06	1.20
ROUTED TO	C-18B	1421.	1.27	271.	271.	271.	2.26	5737.30	1.27
HYDROGRAPH AT	B-18	201.	.70	23.	23.	23.	.20		
2 COMBINED AT	AP-18	1465.	1.23	295.	295.	295.	2.47		
HYDROGRAPH AT	B-13	187.	.73	24.	24.	24.	.20		
2 COMBINED AT	AP-18	1524.	1.23	318.	318.	318.	2.67		
ROUTED TO	RR-3	187.	2.60	129.	129.	129.	2.67	5005.42	2.60
ROUTED TO	C-19A	187.	2.83	120.	120.	120.	2.67	5712.46	2.73
HYDROGRAPH AT	B-19	77.	.63	8.	8.	8.	.12		
2 COMBINED AT	AP-19	189.	2.83	128.	128.	128.	2.79		
2 COMBINED AT	AP-20	1105.	1.87	434.	434.	434.	8.68		
ROUTED TO	C-21A	1096.	1.97	424.	424.	424.	8.68	5658.20	1.97
HYDROGRAPH AT	B-21	177.	.83	27.	27.	27.	.42		
2 COMBINED AT	AP-21	1109.	1.97	451.	451.	451.	9.10		
ROUTED TO	C-22A	1106.	2.03	446.	446.	446.	9.10	5602.07	2.03
ROUTED TO	C-22B	1104.	2.10	441.	441.	441.	9.10	5502.26	2.10
HYDROGRAPH AT	B-22	250.	.73	34.	34.	34.	.58		

2 COMBINED AT	AP-22	1112.	2.10	475.	475.	475.	9.68		
HYDROGRAPH AT	B-23	114.	1.00	21.	21.	21.	.26		
ROUTED TO	C-24A	113.	1.10	21.	21.	21.	.26	5115.46	1.10
HYDROGRAPH AT	B-24	236.	1.00	44.	44.	44.	.55		
2 COMBINED AT	AP-24	346.	1.03	65.	65.	65.	.81		
ROUTED TO	RR-4	14.	6.00	10.	10.	10.	.81	5001.88	6.00
HYDROGRAPH AT	B-25	12.	1.97	5.	5.	5.	.23		
ROUTED TO	C-26	12.	2.37	5.	5.	5.	.23	5776.02	2.33
HYDROGRAPH AT	B-26	27.	1.13	6.	6.	6.	.12		
3 COMBINED AT	AP-26	33.	1.33	21.	21.	21.	1.17		
ROUTED TO	RR-5	0.	5.97	0.	0.	0.	1.17	5769.06	6.00
HYDROGRAPH AT	B-27	30.	.80	4.	4.	4.	.05		
2 COMBINED AT	AP-26	30.	.80	4.	4.	4.	1.21		
ROUTED TO	C-28A	27.	1.17	4.	4.	4.	1.21	5710.07	1.13
ROUTED TO	C-28B	25.	1.43	4.	4.	4.	1.21	5540.09	1.43
HYDROGRAPH AT	B-28	31.	2.10	13.	13.	13.	.83		
3 COMBINED AT	AP-29	1151.	2.07	493.	493.	493.	11.72		
ROUTED TO	C-31A	1144.	2.23	479.	479.	479.	11.72	5417.06	2.23
HYDROGRAPH AT	B-31	127.	.97	23.	23.	23.	.43		
2 COMBINED AT	AP-31	1155.	2.20	502.	502.	502.	12.15		
HYDROGRAPH AT	B-30	201.	.83	30.	30.	30.	.35		
HYDROGRAPH AT	B-32	353.	1.23	81.	81.	81.	1.11		
3 COMBINED AT	AP-33	1259.	2.17	613.	613.	613.	13.61		
ROUTED TO	C-34A	1256.	2.23	606.	606.	606.	13.61	5332.31	2.23
HYDROGRAPH AT	B-34	199.	1.10	41.	41.	41.	.60		
2 COMBINED AT	AP-34	1287.	2.23	646.	646.	646.	14.21		
ROUTED TO	C-35A	1285.	2.27	642.	642.	642.	14.21	5195.56	2.27
HYDROGRAPH AT	B-35	99.	.57	9.	9.	9.	.13		
2 COMBINED AT	AP-35	1288.	2.27	652.	652.	652.	14.34		
HYDROGRAPH AT	B-40	372.	.93	62.	62.	62.	.61		
HYDROGRAPH AT	B-41	23.	2.73	12.	12.	12.	.61		
2 COMBINED AT	AP-42	373.	.93	73.	73.	73.	1.23		

ROUTED TO	RR-6	19.	6.00	7.	7.	7.	1.23	5755.97	6.00
ROUTED TO	C-43A	18.	6.00	7.	7.	7.	1.23	5730.06	5.97
HYDROGRAPH AT	B-43	25.	1.47	8.	8.	8.	.49		
2 COMBINED AT	AP-43	25.	1.47	14.	14.	14.	1.72		
ROUTED TO	C-44A	25.	1.57	14.	14.	14.	1.72	5635.04	1.53
ROUTED TO	C-44B	24.	1.83	13.	13.	13.	1.72	5464.53	1.83
HYDROGRAPH AT	B-44	40.	1.57	13.	13.	13.	.85		
2 COMBINED AT	AP-44	62.	1.70	26.	26.	26.	2.57		
HYDROGRAPH AT	B-45	21.	1.07	5.	5.	5.	.24		
ROUTED TO	C-46A	21.	1.30	5.	5.	5.	.24	5480.11	1.27
HYDROGRAPH AT	B-46	40.	.77	6.	6.	6.	.12		
3 COMBINED AT	AP-47	83.	1.53	36.	36.	36.	2.92		
ROUTED TO	C-48A	83.	1.60	35.	35.	35.	2.92	5376.55	1.60
ROUTED TO	C-48B	83.	1.73	34.	34.	34.	2.92	5340.98	1.73
HYDROGRAPH AT	B-48	18.	1.63	6.	6.	6.	.44		
2 COMBINED AT	AP-48	101.	1.70	41.	41.	41.	3.36		
HYDROGRAPH AT	B-37	14.	1.67	5.	5.	5.	.26		
ROUTED TO	C-38A	14.	2.00	5.	5.	5.	.26	5490.08	1.97
ROUTED TO	C-38B	13.	2.50	4.	4.	4.	.26	5390.17	2.50
HYDROGRAPH AT	B-38	270.	.97	49.	49.	49.	.69		
3 COMBINED AT	AP-38	318.	1.03	94.	94.	94.	4.32		
HYDROGRAPH AT	B-36	168.	.93	29.	29.	29.	.35		
2 COMBINED AT	AP-39	482.	1.00	123.	123.	123.	4.67		
2 COMBINED AT	AP-49	1611.	1.23	775.	775.	775.	19.01		
ROUTED TO	C-50A	1610.	1.23	771.	771.	771.	19.01	5183.70	1.23
HYDROGRAPH AT	B-50	44.	.53	4.	4.	4.	.05		
2 COMBINED AT	AP-51	1614.	1.23	775.	775.	775.	19.06		
ROUTED TO	C-53A	1611.	1.30	769.	769.	769.	19.06	5168.93	1.27
HYDROGRAPH AT	B-53	133.	.57	12.	12.	12.	.16		
HYDROGRAPH AT	B-52	174.	.83	26.	26.	26.	.32		
3 COMBINED AT	AP-53	1704.	1.23	808.	808.	808.	19.54		
ROUTED TO	C-54A	1701.	1.30	800.	800.	800.	19.54	5152.35	1.30

HYDROGRAPH AT	B-54	52.	.67	6.	6.	6.	.09		
2 COMBINED AT	AP-54	1710.	1.30	806.	806.	806.	19.63		
ROUTED TO	C-57B	1705.	1.37	798.	798.	798.	19.63	5127.66	1.33
HYDROGRAPH AT	B-57	25.	.60	3.	3.	3.	.03		
HYDROGRAPH AT	B-55	516.	.93	88.	88.	88.	1.01		
ROUTED TO	C-56A	511.	1.03	87.	87.	87.	1.01	5141.08	1.03
HYDROGRAPH AT	B-56	216.	.67	26.	26.	26.	.38		
2 COMBINED AT	AP-56	604.	1.00	113.	113.	113.	1.38		
ROUTED TO	C-57A	602.	1.00	113.	113.	113.	1.38	5119.01	1.00
3 COMBINED AT	AP-57	2158.	1.27	913.	913.	913.	21.05		
ROUTED TO	C-60A	2154.	1.27	909.	909.	909.	21.05	5118.19	1.27
HYDROGRAPH AT	B-58	71.	.60	7.	7.	7.	.10		
HYDROGRAPH AT	B-59	70.	.73	9.	9.	9.	.12		
HYDROGRAPH AT	B-60	17.	.97	3.	3.	3.	.08		
4 COMBINED AT	AP-60	2193.	1.27	928.	928.	928.	21.34		
ROUTED TO	RR-7	544.	4.60	377.	377.	377.	21.34	5111.74	4.60

MARIPOSA BASIN MASTER PLAN
5 YEAR - 6 HOUR RAINFALL
DEVELOPED WITH NO IMPROVEMENTS

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD 6-HOUR	24-HOUR	72-HOUR	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
HYDROGRAPH AT	B-1	153.	1.07	31.	31.	31.	.59		
HYDROGRAPH AT	B-2	75.	.77	10.	10.	10.	.19		
2 COMBINED AT	AP-3	204.	.93	41.	41.	41.	.78		
ROUTED TO	C-6A	195.	1.20	40.	40.	40.	.78	5850.92	1.20
ROUTED TO	C-6B	183.	1.57	40.	40.	40.	.78	5816.57	1.57
HYDROGRAPH AT	B-4	318.	.90	54.	54.	54.	1.01		
ROUTED TO	RR-1	251.	1.13	42.	42.	42.	1.01	5865.67	1.13
ROUTED TO	C-6F	189.	1.83	39.	39.	39.	1.01	5852.42	1.83
HYDROGRAPH AT	B-5	109.	.87	18.	18.	18.	.60		
ROUTED TO	C-6C	73.	1.77	17.	17.	17.	.60	5860.14	1.77
ROUTED TO	C-6D	69.	2.00	17.	17.	17.	.60	5842.23	1.97
ROUTED TO	C-6E	65.	2.27	17.	17.	17.	.60	5816.33	2.27
HYDROGRAPH AT	B-6	363.	1.20	84.	84.	84.	1.76		
4 COMBINED AT	AP-6	592.	1.70	180.	180.	180.	4.15		
ROUTED TO	RR-2	587.	1.73	165.	165.	165.	4.15	5790.95	1.73
ROUTED TO	C-7A	585.	1.80	164.	164.	164.	4.15	5762.09	1.80
HYDROGRAPH AT	B-7	39.	1.30	10.	10.	10.	.18		
2 COMBINED AT	AP-7	610.	1.80	174.	174.	174.	4.33		
HYDROGRAPH AT	B-8	27.	1.83	9.	9.	9.	.75		
ROUTED TO	C-9A	25.	2.57	9.	9.	9.	.75	5852.11	2.57
ROUTED TO	C-9B	24.	2.93	9.	9.	9.	.75	5836.14	2.90
ROUTED TO	C-9C	24.	3.23	9.	9.	9.	.75	5776.07	3.23
HYDROGRAPH AT	B-9	165.	1.13	35.	35.	35.	.57		
3 COMBINED AT	AP-10	683.	1.77	218.	218.	218.	5.65		
ROUTED TO	C-11A	678.	1.87	216.	216.	216.	5.65	5735.49	1.87
HYDROGRAPH AT	B-11	84.	.73	11.	11.	11.	.19		

2 COMBINED AT	AP-11	683.	1.83	227.	227.	227.	5.84		
ROUTED TO	C-12A	680.	1.90	224.	224.	224.	5.84	5707.32	1.90
HYDROGRAPH AT	B-12	31.	.63	3.	3.	3.	.06		
2 COMBINED AT	AP-12	680.	1.90	228.	228.	228.	5.89		
HYDROGRAPH AT	B-14	242.	.93	40.	40.	40.	.40		
ROUTED TO	C-15	241.	.97	40.	40.	40.	.40	5116.20	.97
HYDROGRAPH AT	B-15	182.	1.00	33.	33.	33.	.33		
2 COMBINED AT	AP-15	422.	.97	73.	73.	73.	.72		
ROUTED TO	C-16	422.	.97	73.	73.	73.	.72	5114.01	.93
HYDROGRAPH AT	B-16	543.	1.03	101.	101.	101.	1.01		
2 COMBINED AT	AP-16	963.	1.00	174.	174.	174.	1.73		
ROUTED TO	C-17	948.	1.10	173.	173.	173.	1.73	5791.49	1.10
ROUTED TO	C-17A	936.	1.23	171.	171.	171.	1.73	5791.84	1.23
HYDROGRAPH AT	B-17	283.	.93	47.	47.	47.	.53		
2 COMBINED AT	AP-17	1143.	1.17	219.	219.	219.	2.26		
ROUTED TO	C-18A	1139.	1.20	218.	218.	218.	2.26	5759.77	1.20
ROUTED TO	C-18B	1129.	1.27	217.	217.	217.	2.26	5737.14	1.27
HYDROGRAPH AT	B-18	158.	.70	18.	18.	18.	.20		
2 COMBINED AT	AP-18	1162.	1.27	236.	236.	236.	2.47		
HYDROGRAPH AT	B-13	151.	.73	19.	19.	19.	.20		
2 COMBINED AT	AP-18	1205.	1.27	255.	255.	255.	2.67		
ROUTED TO	RR-3	150.	2.67	98.	98.	98.	2.67	5004.55	2.67
ROUTED TO	C-19A	149.	3.10	91.	91.	91.	2.67	5712.42	3.07
HYDROGRAPH AT	B-19	58.	.63	6.	6.	6.	.12		
2 COMBINED AT	AP-19	151.	3.10	97.	97.	97.	2.79		
2 COMBINED AT	AP-20	750.	2.00	325.	325.	325.	8.68		
ROUTED TO	C-21A	744.	2.13	317.	317.	317.	8.68	5657.86	2.13
HYDROGRAPH AT	B-21	128.	.83	20.	20.	20.	.42		
2 COMBINED AT	AP-21	751.	2.13	337.	337.	337.	9.10		
ROUTED TO	C-22A	750.	2.20	332.	332.	332.	9.10	5601.70	2.20
ROUTED TO	C-22B	749.	2.23	328.	328.	328.	9.10	5501.79	2.23
HYDROGRAPH AT	B-22	183.	.73	25.	25.	25.	.58		

2 COMBINED AT	AP-22	756.	2.23	353.	353.	353.	9.68		
HYDROGRAPH AT	B-23	88.	1.00	16.	16.	16.	.26		
ROUTED TO	C-24A	86.	1.10	16.	16.	16.	.26	5115.27	1.10
HYDROGRAPH AT	B-24	182.	1.00	34.	34.	34.	.55		
2 COMBINED AT	AP-24	264.	1.07	50.	50.	50.	.81		
ROUTED TO	RR-4	10.	6.00	7.	7.	7.	.81	5001.49	6.00
HYDROGRAPH AT	B-25	6.	2.00	3.	3.	3.	.23		
ROUTED TO	C-26	6.	2.40	2.	2.	2.	.23	5776.01	2.37
HYDROGRAPH AT	B-26	17.	1.13	4.	4.	4.	.12		
3 COMBINED AT	AP-26	19.	1.63	14.	14.	14.	1.17		
ROUTED TO	RR-5	0.	5.93	0.	0.	0.	1.17	5768.42	6.00
HYDROGRAPH AT	B-27	24.	.77	3.	3.	3.	.05		
2 COMBINED AT	AP-26	24.	.77	3.	3.	3.	1.21		
ROUTED TO	C-28A	21.	1.13	3.	3.	3.	1.21	5710.05	1.13
ROUTED TO	C-28B	20.	1.43	3.	3.	3.	1.21	5540.07	1.43
HYDROGRAPH AT	B-28	16.	2.13	7.	7.	7.	.83		
3 COMBINED AT	AP-29	775.	2.23	364.	364.	364.	11.72		
ROUTED TO	C-31A	772.	2.37	352.	352.	352.	11.72	5416.66	2.37
HYDROGRAPH AT	B-31	92.	.93	17.	17.	17.	.43		
2 COMBINED AT	AP-31	778.	2.37	369.	369.	369.	12.15		
HYDROGRAPH AT	B-30	151.	.83	23.	23.	23.	.35		
HYDROGRAPH AT	B-32	264.	1.23	61.	61.	61.	1.11		
3 COMBINED AT	AP-33	854.	1.97	452.	452.	452.	13.61		
ROUTED TO	C-34A	848.	2.10	446.	446.	446.	13.61	5331.94	2.07
HYDROGRAPH AT	B-34	147.	1.10	30.	30.	30.	.60		
2 COMBINED AT	AP-34	879.	2.07	477.	477.	477.	14.21		
ROUTED TO	C-35A	877.	2.13	473.	473.	473.	14.21	5195.27	2.13
HYDROGRAPH AT	B-35	76.	.57	7.	7.	7.	.13		
2 COMBINED AT	AP-35	879.	2.13	480.	480.	480.	14.34		
HYDROGRAPH AT	B-40	290.	.93	49.	49.	49.	.61		
HYDROGRAPH AT	B-41	12.	2.77	6.	6.	6.	.61		
2 COMBINED AT	AP-42	291.	.93	55.	55.	55.	1.23		

ROUTED TO	RR-6	0.	6.00	0.	0.	0.	1.23	5755.71	6.00
ROUTED TO	C-43A	0.	6.00	0.	0.	0.	1.23	5730.00	.00
HYDROGRAPH AT	B-43	12.	1.47	4.	4.	4.	.49		
2 COMBINED AT	AP-43	12.	1.47	4.	4.	4.	1.72		
ROUTED TO	C-44A	11.	1.60	4.	4.	4.	1.72	5635.02	1.53
ROUTED TO	C-44B	11.	1.83	4.	4.	4.	1.72	5464.25	1.83
HYDROGRAPH AT	B-44	19.	1.60	7.	7.	7.	.85		
2 COMBINED AT	AP-44	29.	1.70	10.	10.	10.	2.57		
HYDROGRAPH AT	B-45	10.	1.13	3.	3.	3.	.24		
ROUTED TO	C-46A	10.	1.33	3.	3.	3.	.24	5460.06	1.33
HYDROGRAPH AT	B-46	28.	.77	4.	4.	4.	.12		
3 COMBINED AT	AP-47	42.	1.47	17.	17.	17.	2.92		
ROUTED TO	C-48A	41.	1.63	17.	17.	17.	2.92	5376.29	1.60
ROUTED TO	C-48B	41.	1.77	16.	16.	16.	2.92	5340.67	1.77
HYDROGRAPH AT	B-48	12.	1.53	4.	4.	4.	.44		
2 COMBINED AT	AP-48	53.	1.70	20.	20.	20.	3.36		
HYDROGRAPH AT	B-37	7.	1.70	3.	3.	3.	.26		
ROUTED TO	C-38A	7.	2.00	3.	3.	3.	.26	5490.04	2.00
ROUTED TO	C-38B	7.	2.53	2.	2.	2.	.26	5390.09	2.50
HYDROGRAPH AT	B-38	201.	.97	37.	37.	37.	.69		
3 COMBINED AT	AP-38	233.	1.03	60.	60.	60.	4.32		
HYDROGRAPH AT	B-36	127.	.93	22.	22.	22.	.35		
2 COMBINED AT	AP-39	357.	1.00	81.	81.	81.	4.67		
2 COMBINED AT	AP-49	1145.	1.23	562.	562.	562.	19.01		
ROUTED TO	C-50A	1145.	1.23	559.	559.	559.	19.01	5183.41	1.23
HYDROGRAPH AT	B-50	34.	.53	3.	3.	3.	.05		
2 COMBINED AT	AP-51	1148.	1.23	562.	562.	562.	19.06		
ROUTED TO	C-53A	1145.	1.30	558.	558.	558.	19.06	5168.47	1.30
HYDROGRAPH AT	B-53	99.	.57	9.	9.	9.	.16		
HYDROGRAPH AT	B-52	131.	.83	20.	20.	20.	.32		
3 COMBINED AT	AP-53	1213.	1.27	587.	587.	587.	19.54		
ROUTED TO	C-54A	1211.	1.30	581.	581.	581.	19.54	5151.76	1.30

HYDROGRAPH AT	B-54	40.	.67	5.	5.	5.	.09		
2 COMBINED AT	AP-54	1217.	1.30	585.	585.	585.	19.63		
ROUTED TO	C-57B	1215.	1.37	579.	579.	579.	19.63	5126.99	1.37
HYDROGRAPH AT	B-57	19.	.60	2.	2.	2.	.03		
HYDROGRAPH AT	B-55	390.	.93	67.	67.	67.	1.01		
ROUTED TO	C-56A	385.	1.03	66.	66.	66.	1.01	5140.93	1.03
HYDROGRAPH AT	B-56	166.	.67	20.	20.	20.	.38		
2 COMBINED AT	AP-56	455.	1.00	86.	86.	86.	1.38		
ROUTED TO	C-57A	452.	1.03	86.	86.	86.	1.38	5118.55	1.03
3 COMBINED AT	AP-57	1556.	1.27	667.	667.	667.	21.05		
ROUTED TO	C-60A	1554.	1.30	663.	663.	663.	21.05	5117.45	1.30
HYDROGRAPH AT	B-58	53.	.60	6.	6.	6.	.10		
HYDROGRAPH AT	B-59	53.	.73	7.	7.	7.	.12		
HYDROGRAPH AT	B-60	10.	.97	2.	2.	2.	.08		
4 COMBINED AT	AP-60	1580.	1.30	677.	677.	677.	21.34		
ROUTED TO	RR-7	429.	4.53	286.	286.	286.	21.34	5109.64	4.53

MARIPOSA BASIN MASTER PLAN
2 YEAR - 6 HOUR RAINFALL
DEVELOPED WITH NO IMPROVEMENTS

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD 6-HOUR	24-HOUR	72-HOUR	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
HYDROGRAPH AT	B-1	119.	1.03	24.	24.	24.	.58		
HYDROGRAPH AT	B-2	58.	.77	8.	8.	8.	.19		
2 COMBINED AT	AP-3	158.	.93	32.	32.	32.	.78		
ROUTED TO	C-6A	151.	1.20	31.	31.	31.	.78	5850.78	1.20
ROUTED TO	C-6B	141.	1.57	31.	31.	31.	.78	5816.44	1.57
HYDROGRAPH AT	B-4	248.	.90	41.	41.	41.	1.01		
ROUTED TO	RR-1	176.	1.17	30.	30.	30.	1.01	5865.33	1.17
ROUTED TO	C-6F	127.	1.93	28.	28.	28.	1.01	5852.32	1.93
HYDROGRAPH AT	B-5	68.	.83	14.	14.	14.	.60		
ROUTED TO	C-6C	57.	1.73	13.	13.	13.	.60	5860.11	1.73
ROUTED TO	C-6D	52.	2.07	13.	13.	13.	.60	5842.19	2.03
ROUTED TO	C-6E	50.	2.33	13.	13.	13.	.60	5816.25	2.33
HYDROGRAPH AT	B-6	287.	1.20	65.	65.	65.	1.76		
4 COMBINED AT	AP-6	396.	1.83	136.	136.	136.	4.15		
ROUTED TO	RR-2	392.	1.90	122.	122.	122.	4.15	5790.74	1.90
ROUTED TO	C-7A	391.	1.53	121.	121.	121.	4.15	5761.65	1.53
HYDROGRAPH AT	B-7	30.	1.30	7.	7.	7.	.18		
2 COMBINED AT	AP-7	418.	1.50	128.	128.	128.	4.33		
HYDROGRAPH AT	B-8	23.	1.83	8.	8.	8.	.75		
ROUTED TO	C-9A	21.	2.57	8.	8.	8.	.75	5852.09	2.53
ROUTED TO	C-9B	20.	2.93	7.	7.	7.	.75	5836.11	2.87
ROUTED TO	C-9C	20.	3.23	7.	7.	7.	.75	5776.06	3.20
HYDROGRAPH AT	B-9	130.	1.13	27.	27.	27.	.57		
3 COMBINED AT	AP-10	516.	1.40	163.	163.	163.	5.65		
ROUTED TO	C-11A	511.	1.50	161.	161.	161.	5.65	5735.28	1.50
HYDROGRAPH AT	B-11	64.	.73	8.	8.	8.	.19		

2 COMBINED AT	AP-11	521.	1.50	170.	170.	170.	5.94		
ROUTED TO	C-12A	513.	1.63	168.	168.	168.	5.84	5707.14	1.60
HYDROGRAPH AT	B-12	23.	.63	3.	3.	3.	.06		
2 COMBINED AT	AP-12	515.	1.60	171.	171.	171.	5.89		
HYDROGRAPH AT	B-14	194.	.93	32.	32.	32.	.40		
ROUTED TO	C-15	193.	.97	32.	32.	32.	.40	5115.95	.97
HYDROGRAPH AT	B-15	146.	1.00	26.	26.	26.	.33		
2 COMBINED AT	AP-15	338.	1.00	58.	58.	58.	.72		
ROUTED TO	C-16	338.	1.00	58.	58.	58.	.72	5114.01	.93
HYDROGRAPH AT	B-16	435.	1.03	81.	81.	81.	1.01		
2 COMBINED AT	AP-16	772.	1.00	139.	139.	139.	1.73		
ROUTED TO	C-17	755.	1.13	139.	139.	139.	1.73	5791.34	1.13
ROUTED TO	C-17A	741.	1.23	137.	137.	137.	1.73	5791.65	1.23
HYDROGRAPH AT	B-17	224.	.93	38.	38.	38.	.53		
2 COMBINED AT	AP-17	893.	1.20	175.	175.	175.	2.26		
ROUTED TO	C-18A	889.	1.23	175.	175.	175.	2.26	5759.53	1.23
ROUTED TO	C-18B	880.	1.30	174.	174.	174.	2.26	5737.00	1.30
HYDROGRAPH AT	B-18	125.	.70	15.	15.	15.	.20		
2 COMBINED AT	AP-18	903.	1.30	189.	189.	189.	2.47		
HYDROGRAPH AT	B-13	122.	.73	16.	16.	16.	.20		
2 COMBINED AT	AP-18	934.	1.30	204.	204.	204.	2.67		
ROUTED TO	RR-3	111.	2.73	67.	67.	67.	2.67	5003.86	2.73
ROUTED TO	C-19A	111.	3.17	62.	62.	62.	2.67	5712.31	3.10
HYDROGRAPH AT	B-19	44.	.63	5.	5.	5.	.12		
2 COMBINED AT	AP-19	112.	3.17	67.	67.	67.	2.79		
2 COMBINED AT	AP-20	517.	1.60	238.	238.	238.	8.68		
ROUTED TO	C-21A	510.	1.80	231.	231.	231.	8.68	5657.60	1.80
HYDROGRAPH AT	B-21	93.	.83	15.	15.	15.	.42		
2 COMBINED AT	AP-21	522.	1.77	246.	246.	246.	9.10		
ROUTED TO	C-22A	519.	1.87	243.	243.	243.	9.10	5601.38	1.87
ROUTED TO	C-22B	517.	1.93	240.	240.	240.	9.10	5501.43	1.93
HYDROGRAPH AT	B-22	138.	.73	19.	19.	19.	.58		

2 COMBINED AT	AP-22	523.	1.93	259.	259.	259.	9.68		
HYDROGRAPH AT	B-23	68.	.97	12.	12.	12.	.26		
ROUTED TO	C-24A	67.	1.13	12.	12.	12.	.26	5115.09	1.10
HYDROGRAPH AT	B-24	141.	1.00	26.	26.	26.	.55		
2 COMBINED AT	AP-24	205.	1.03	39.	39.	39.	.81		
ROUTED TO	RR-4	7.	6.00	4.	4.	4.	.81	5001.19	6.00
HYDROGRAPH AT	B-25	3.	2.00	1.	1.	1.	.23		
ROUTED TO	C-26	3.	2.40	1.	1.	1.	.23	5776.01	2.30
HYDROGRAPH AT	B-26	10.	1.17	2.	2.	2.	.12		
3 COMBINED AT	AP-26	10.	1.20	8.	8.	8.	1.17		
ROUTED TO	RR-5	0.	.03	0.	0.	0.	1.17	5767.75	6.00
HYDROGRAPH AT	B-27	19.	.77	3.	3.	3.	.05		
2 COMBINED AT	AP-26	19.	.77	3.	3.	3.	1.21		
ROUTED TO	C-28A	17.	1.13	3.	3.	3.	1.21	5710.04	1.13
ROUTED TO	C-28B	15.	1.43	3.	3.	3.	1.21	5540.05	1.40
HYDROGRAPH AT	B-28	7.	2.07	3.	3.	3.	.83		
3 COMBINED AT	AP-29	537.	1.93	264.	264.	264.	11.72		
ROUTED TO	C-31A	529.	2.13	256.	256.	256.	11.72	5416.31	2.13
HYDROGRAPH AT	B-31	69.	.93	12.	12.	12.	.43		
2 COMBINED AT	AP-31	535.	2.13	268.	268.	268.	12.15		
HYDROGRAPH AT	B-30	112.	.83	17.	17.	17.	.35		
HYDROGRAPH AT	B-32	198.	1.20	46.	46.	46.	1.11		
3 COMBINED AT	AP-33	603.	2.10	331.	331.	331.	13.61		
ROUTED TO	C-34A	601.	2.17	326.	326.	326.	13.61	5331.66	2.17
HYDROGRAPH AT	B-34	110.	1.07	23.	23.	23.	.60		
2 COMBINED AT	AP-34	620.	2.17	349.	349.	349.	14.21		
ROUTED TO	C-35A	619.	2.20	346.	346.	346.	14.21	5195.09	2.20
HYDROGRAPH AT	B-35	60.	.57	5.	5.	5.	.13		
2 COMBINED AT	AP-35	620.	2.20	352.	352.	352.	14.34		
HYDROGRAPH AT	B-40	227.	.93	38.	38.	38.	.61		
HYDROGRAPH AT	B-41	6.	2.77	3.	3.	3.	.61		
2 COMBINED AT	AP-42	228.	.93	41.	41.	41.	1.23		

ROUTED TO	RR-6	0.	.03	0.	0.	0.	1.23	5755.35	6.00
ROUTED TO	C-43A	0.	.03	0.	0.	0.	1.23	5730.00	.00
HYDROGRAPH AT	B-43	5.	1.33	2.	2.	2.	.49		
2 COMBINED AT	AP-43	5.	1.33	2.	2.	2.	1.72		
ROUTED TO	C-44A	5.	1.43	2.	2.	2.	1.72	5635.01	1.27
ROUTED TO	C-44B	5.	1.70	2.	2.	2.	1.72	5464.11	1.67
HYDROGRAPH AT	B-44	8.	1.43	3.	3.	3.	.85		
2 COMBINED AT	AP-44	13.	1.57	5.	5.	5.	2.57		
HYDROGRAPH AT	B-45	4.	1.10	1.	1.	1.	.24		
ROUTED TO	C-46A	4.	1.30	1.	1.	1.	.24	5480.02	1.27
HYDROGRAPH AT	B-46	20.	.73	3.	3.	3.	.12		
3 COMBINED AT	AP-47	25.	.80	9.	9.	9.	2.92		
ROUTED TO	C-48A	24.	1.03	9.	9.	9.	2.92	5376.17	1.03
ROUTED TO	C-48B	23.	1.23	9.	9.	9.	2.92	5340.49	1.23
HYDROGRAPH AT	B-48	10.	1.50	3.	3.	3.	.44		
2 COMBINED AT	AP-48	33.	1.40	12.	12.	12.	3.36		
HYDROGRAPH AT	B-37	3.	1.67	1.	1.	1.	.26		
ROUTED TO	C-38A	3.	2.00	1.	1.	1.	.26	5490.02	1.93
ROUTED TO	C-38B	3.	2.50	1.	1.	1.	.26	5390.04	2.43
HYDROGRAPH AT	B-38	150.	.97	28.	28.	28.	.69		
3 COMBINED AT	AP-38	172.	1.03	40.	40.	40.	4.32		
HYDROGRAPH AT	B-36	96.	.93	17.	17.	17.	.35		
2 COMBINED AT	AP-39	264.	.97	57.	57.	57.	4.67		
2 COMBINED AT	AP-49	822.	1.17	408.	408.	408.	19.01		
ROUTED TO	C-50A	820.	1.20	406.	406.	406.	19.01	5183.17	1.20
HYDROGRAPH AT	B-50	28.	.53	2.	2.	2.	.05		
2 COMBINED AT	AP-51	822.	1.20	409.	409.	409.	19.06		
ROUTED TO	C-53A	819.	1.23	405.	405.	405.	19.06	5168.08	1.23
HYDROGRAPH AT	B-53	75.	.57	7.	7.	7.	.16		
HYDROGRAPH AT	B-52	99.	.83	15.	15.	15.	.32		
3 COMBINED AT	AP-53	876.	1.20	427.	427.	427.	19.54		
ROUTED TO	C-54A	873.	1.27	422.	422.	422.	19.54	5151.26	1.27

HYDROGRAPH AT	B-54	32.	.67	4.	4.	4.	.09		
2 COMBINED AT	AP-54	878.	1.27	426.	426.	426.	19.63		
ROUTED TO	C-57B	874.	1.33	420.	420.	420.	19.63	5126.46	1.33
HYDROGRAPH AT	B-57	14.	.60	1.	1.	1.	.03		
HYDROGRAPH AT	B-55	294.	.93	51.	51.	51.	1.01		
ROUTED TO	C-56A	288.	1.07	50.	50.	50.	1.01	5140.79	1.07
HYDROGRAPH AT	B-56	131.	.67	15.	15.	15.	.38		
2 COMBINED AT	AP-56	336.	1.00	66.	66.	66.	1.38		
ROUTED TO	C-57A	334.	1.03	65.	65.	65.	1.38	5118.13	1.03
3 COMBINED AT	AP-57	1144.	1.27	487.	487.	487.	21.05		
ROUTED TO	C-60A	1141.	1.30	484.	484.	484.	21.05	5116.88	1.27
HYDROGRAPH AT	B-58	41.	.60	4.	4.	4.	.10		
HYDROGRAPH AT	B-59	41.	.70	5.	5.	5.	.12		
HYDROGRAPH AT	B-60	6.	.97	1.	1.	1.	.08		
4 COMBINED AT	AP-60	1161.	1.27	494.	494.	494.	21.34		
ROUTED TO	RR-7	327.	4.53	206.	206.	206.	21.34	5108.21	4.53

MARIPOSA BASIN MASTER PLAN
100 YEAR - 6 HOUR RAINFALL
DEVELOPED WITH IMPROVEMENTS

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD 6-HOUR	24-HOUR	72-HOUR	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
HYDROGRAPH AT	B-1	363.	1.07	73.	73.	73.	.58		
HYDROGRAPH AT	B-2	181.	.80	25.	25.	25.	.19		
2 COMBINED AT	AP-3	483.	.97	97.	97.	97.	.78		
ROUTED TO	RR-A	43.	2.43	30.	30.	30.	.78	5004.04	2.27
ROUTED TO	C-6A	43.	2.90	28.	28.	28.	.78	5850.34	2.87
ROUTED TO	C-6B	43.	3.27	26.	26.	26.	.78	5816.13	3.20
HYDROGRAPH AT	B-4	759.	.93	127.	127.	127.	1.01		
ROUTED TO	RR-1	620.	1.13	69.	69.	69.	1.01	5866.79	1.13
ROUTED TO	C-6F	357.	1.77	63.	63.	63.	1.01	5852.60	1.77
HYDROGRAPH AT	B-5	286.	.90	49.	49.	49.	.60		
ROUTED TO	RR-B	191.	1.23	31.	31.	31.	.60	5004.19	1.23
ROUTED TO	C-6C	116.	2.20	29.	29.	29.	.60	5860.23	2.20
ROUTED TO	C-6D	111.	2.40	28.	28.	28.	.60	5842.29	2.40
ROUTED TO	C-6E	108.	2.63	28.	28.	28.	.60	5816.53	2.60
HYDROGRAPH AT	B-6	851.	1.23	199.	199.	199.	1.76		
4 COMBINED AT	AP-6	889.	1.70	314.	314.	314.	4.15		
ROUTED TO	RR-2	886.	1.73	222.	222.	222.	4.15	5791.10	1.73
ROUTED TO	C-7A	879.	1.80	218.	218.	218.	4.15	5762.63	1.80
HYDROGRAPH AT	B-7	95.	1.33	23.	23.	23.	.18		
HYDROGRAPH AT	B-8	75.	1.93	29.	29.	29.	.75		
ROUTED TO	C-9A	68.	2.70	28.	28.	28.	.75	5852.30	2.70
ROUTED TO	C-9B	68.	2.90	27.	27.	27.	.75	5836.35	2.87
ROUTED TO	C-9C	67.	3.23	26.	26.	26.	.75	5776.21	3.20
HYDROGRAPH AT	B-9	371.	1.13	79.	79.	79.	.57		
3 COMBINED AT	AP-10	461.	1.17	128.	128.	128.	1.49		
ROUTED TO	RR-C	406.	1.53	74.	74.	74.	1.49	5004.20	1.53

2 COMBINED AT	AP-10	1163.	1.73	292.	292.	292.	5.65		
ROUTED TO	C-11A	1104.	1.83	288.	288.	288.	5.65	5735.89	1.83
HYDROGRAPH AT	B-11	206.	.73	26.	26.	26.	.19		
2 COMBINED AT	AP-11	1115.	1.83	314.	314.	314.	5.84		
ROUTED TO	C-12A	1091.	1.90	310.	310.	310.	5.84	5707.66	1.90
HYDROGRAPH AT	B-12	77.	.63	8.	8.	8.	.06		
2 COMBINED AT	AP-12	1093.	1.90	318.	318.	318.	5.89		
HYDROGRAPH AT	B-14	487.	.93	79.	79.	79.	.40		
ROUTED TO	C-15	485.	.97	79.	79.	79.	.40	5117.12	.97
HYDROGRAPH AT	B-15	365.	1.00	66.	66.	66.	.33		
2 COMBINED AT	AP-15	848.	.97	144.	144.	144.	.72		
ROUTED TO	C-16	847.	.97	144.	144.	144.	.72	5114.01	.97
HYDROGRAPH AT	B-16	1089.	1.03	201.	201.	201.	1.01		
2 COMBINED AT	AP-16	1931.	1.00	345.	345.	345.	1.73		
ROUTED TO	C-17	1901.	1.10	343.	343.	343.	1.73	5792.25	1.10
ROUTED TO	C-17A	1888.	1.20	341.	341.	341.	1.73	5792.56	1.20
HYDROGRAPH AT	B-17	591.	.93	98.	98.	98.	.53		
2 COMBINED AT	AP-17	2351.	1.13	438.	438.	438.	2.26		
ROUTED TO	C-18A	2348.	1.17	437.	437.	437.	2.26	5760.54	1.17
ROUTED TO	C-18B	2340.	1.20	436.	436.	436.	2.26	5737.65	1.20
HYDROGRAPH AT	B-18	334.	.70	38.	38.	38.	.20		
2 COMBINED AT	AP-18	2424.	1.20	474.	474.	474.	2.47		
HYDROGRAPH AT	B-13	302.	.77	38.	38.	38.	.20		
2 COMBINED AT	AP-18	2536.	1.17	512.	512.	512.	2.67		
ROUTED TO	RR-3	252.	2.70	153.	153.	153.	2.67	5006.89	2.70
ROUTED TO	C-19A	251.	2.90	143.	143.	143.	2.67	5712.53	2.90
HYDROGRAPH AT	B-19	149.	.63	15.	15.	15.	.12		
2 COMBINED AT	AP-19	255.	2.93	158.	158.	158.	2.79		
2 COMBINED AT	AP-20	1150.	1.93	476.	476.	476.	8.68		
ROUTED TO	C-21A	1132.	2.07	463.	463.	463.	8.68	5658.23	2.07
ROUTED TO	C-22A	1128.	2.13	456.	456.	456.	8.68	5602.09	2.13
ROUTED TO	C-22B	1127.	2.20	450.	450.	450.	8.68	5502.29	2.20

HYDROGRAPH AT	B-21	350.	.83	52.	52.	52.	.42		
ROUTED TO	C-22A	346.	.93	51.	51.	51.	.42	5601.08	.93
ROUTED TO	C-22B	343.	1.00	51.	51.	51.	.42	5501.10	1.00
HYDROGRAPH AT	B-22	503.	.77	66.	66.	66.	.58		
2 COMBINED AT	AP-22	721.	.90	117.	117.	117.	1.00		
ROUTED TO	RR-D	578.	1.27	65.	65.	65.	1.00	5004.21	1.27
2 COMBINED AT	AP-22	1219.	2.20	515.	515.	515.	9.68		
HYDROGRAPH AT	B-23	204.	1.00	37.	37.	37.	.26		
ROUTED TO	C-24A	202.	1.10	36.	36.	36.	.26	5116.00	1.10
HYDROGRAPH AT	B-24	422.	1.03	78.	78.	78.	.55		
2 COMBINED AT	AP-24	619.	1.03	115.	115.	115.	.81		
ROUTED TO	RR-4	20.	6.00	14.	14.	14.	.81	5002.88	6.00
HYDROGRAPH AT	B-25	37.	1.90	13.	13.	13.	.23		
ROUTED TO	C-26	35.	2.30	13.	13.	13.	.23	5776.07	2.27
HYDROGRAPH AT	B-26	65.	1.10	13.	13.	13.	.12		
3 COMBINED AT	AP-26	68.	1.13	39.	39.	39.	1.17		
ROUTED TO	RR-5	34.	3.93	13.	13.	13.	1.17	5770.21	3.93
HYDROGRAPH AT	B-27	52.	.80	7.	7.	7.	.05		
2 COMBINED AT	AP-26	52.	.80	20.	20.	20.	1.21		
ROUTED TO	C-28A	46.	1.17	19.	19.	19.	1.21	5710.11	1.13
ROUTED TO	C-28B	42.	1.43	17.	17.	17.	1.21	5540.15	1.43
HYDROGRAPH AT	B-28	105.	2.03	41.	41.	41.	.83		
3 COMBINED AT	AP-29	1331.	2.20	573.	573.	573.	11.72		
ROUTED TO	C-31A	1314.	2.37	554.	554.	554.	11.72	5417.23	2.33
ROUTED TO	C-34A	1308.	2.43	544.	544.	544.	11.72	5332.35	2.43
ROUTED TO	C-35A	1304.	2.47	539.	539.	539.	11.72	5195.57	2.47
HYDROGRAPH AT	B-31	256.	.97	45.	45.	45.	.43		
HYDROGRAPH AT	B-30	371.	.83	53.	53.	53.	.35		
HYDROGRAPH AT	B-32	658.	1.23	148.	148.	148.	1.11		
3 COMBINED AT	AP-33	1120.	1.03	247.	247.	247.	1.89		
ROUTED TO	C-34A	1116.	1.10	245.	245.	245.	1.89	5332.20	1.10
HYDROGRAPH AT	B-34	379.	1.10	76.	76.	76.	.60		

2 COMBINED AT	AP-34	1495.	1.10	320.	320.	320.	2.49		
ROUTED TO	C-35A	1493.	1.13	319.	319.	319.	2.49	5195.66	1.13
HYDROGRAPH AT	B-35	189.	.57	17.	17.	17.	.13		
2 COMBINED AT	AP-35	1520.	1.13	336.	336.	336.	2.62		
ROUTED TO	RR-E	2134.	1.37	191.	191.	191.	2.62	5004.24	1.37
2 COMBINED AT	AP-35	2331.	1.50	730.	730.	730.	14.34		
HYDROGRAPH AT	B-40	634.	.93	104.	104.	104.	.61		
HYDROGRAPH AT	B-41	69.	2.63	34.	34.	34.	.61		
2 COMBINED AT	AP-42	639.	.93	138.	138.	138.	1.23		
ROUTED TO	RR-6	98.	2.30	69.	69.	69.	1.23	5756.46	2.30
ROUTED TO	C-43A	98.	2.70	67.	67.	67.	1.23	5730.30	2.50
HYDROGRAPH AT	B-43	89.	1.40	24.	24.	24.	.49		
2 COMBINED AT	AP-43	149.	1.67	91.	91.	91.	1.72		
ROUTED TO	C-44A	149.	1.80	89.	89.	89.	1.72	5635.23	1.77
ROUTED TO	C-44B	149.	1.90	87.	87.	87.	1.72	5465.28	1.90
HYDROGRAPH AT	B-44	142.	1.50	41.	41.	41.	.85		
2 COMBINED AT	AP-44	273.	1.70	128.	128.	128.	2.57		
HYDROGRAPH AT	B-45	73.	1.03	14.	14.	14.	.24		
ROUTED TO	C-46A	71.	1.23	14.	14.	14.	.24	5480.39	1.23
HYDROGRAPH AT	B-46	88.	.77	12.	12.	12.	.12		
3 COMBINED AT	AP-47	325.	1.57	153.	153.	153.	2.92		
ROUTED TO	C-48A	325.	1.67	150.	150.	150.	2.92	5377.19	1.63
ROUTED TO	C-48B	324.	1.73	148.	148.	148.	2.92	5341.96	1.73
HYDROGRAPH AT	B-48	53.	1.70	18.	18.	18.	.44		
2 COMBINED AT	AP-48	377.	1.73	166.	166.	166.	3.36		
HYDROGRAPH AT	B-37	47.	1.60	14.	14.	14.	.26		
ROUTED TO	C-38A	46.	1.93	14.	14.	14.	.26	5490.26	1.90
ROUTED TO	C-38B	44.	2.30	13.	13.	13.	.26	5390.53	2.30
HYDROGRAPH AT	B-38	511.	.97	90.	90.	90.	.69		
2 COMBINED AT	AP-38	511.	.97	104.	104.	104.	.95		
HYDROGRAPH AT	B-36	307.	.93	51.	51.	51.	.35		
2 COMBINED AT	AP-39	817.	.97	155.	155.	155.	1.30		

ROUTED TO	RR-F	295.	1.60	74.	74.	74.	1.30	5004.20	1.60
2 COMBINED AT	AP-49	664.	1.60	239.	239.	239.	4.67		
ROUTED TO	C-50A	648.	1.67	237.	237.	237.	4.67	5183.02	1.67
HYDROGRAPH AT	B-50	84.	.53	7.	7.	7.	.05		
3 COMBINED AT	AP-51	2823.	1.63	974.	974.	974.	19.06		
ROUTED TO	C-53A	2169.	1.67	965.	965.	965.	19.06	5169.40	1.67
HYDROGRAPH AT	B-53	255.	.57	22.	22.	22.	.16		
HYDROGRAPH AT	B-52	320.	.83	47.	47.	47.	.32		
ROUTED TO	RR-G	374.	1.00	27.	27.	27.	.32	5004.20	1.00
3 COMBINED AT	AP-53	2233.	1.67	1013.	1013.	1013.	19.54		
ROUTED TO	C-54A	2211.	1.73	1001.	1001.	1001.	19.54	5152.86	1.73
HYDROGRAPH AT	B-54	96.	.67	11.	11.	11.	.09		
2 COMBINED AT	AP-54	2216.	1.73	1012.	1012.	1012.	19.63		
ROUTED TO	C-57B	2207.	1.77	1000.	1000.	1000.	19.63	5128.26	1.77
HYDROGRAPH AT	B-57	47.	.63	5.	5.	5.	.03		
HYDROGRAPH AT	B-55	936.	.93	155.	155.	155.	1.01		
ROUTED TO	C-56A	927.	1.03	154.	154.	154.	1.01	5141.49	1.03
HYDROGRAPH AT	B-56	404.	.70	47.	47.	47.	.38		
2 COMBINED AT	AP-56	1115.	.97	201.	201.	201.	1.38		
ROUTED TO	RR-H	1452.	1.13	115.	115.	115.	1.38	5004.22	1.13
ROUTED TO	C-57A	907.	1.20	114.	114.	114.	1.38	5119.82	1.20
3 COMBINED AT	AP-57	2534.	1.70	1119.	1119.	1119.	21.05		
ROUTED TO	C-60A	2528.	1.73	1112.	1112.	1112.	21.05	5118.59	1.73
HYDROGRAPH AT	B-58	133.	.60	13.	13.	13.	.10		
HYDROGRAPH AT	B-59	131.	.73	16.	16.	16.	.12		
HYDROGRAPH AT	B-60	42.	.93	7.	7.	7.	.08		
4 COMBINED AT	AP-60	2551.	1.73	1149.	1149.	1149.	21.34		
ROUTED TO	RR-7	655.	6.00	392.	392.	392.	21.34	5114.24	6.00

MARIPOSA BASIN MASTER PLAN
50 YEAR - 6 HOUR RAINFALL
DEVELOPED WITH IMPROVEMENTS

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD 6-HOUR	24-HOUR	72-HOUR	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
HYDROGRAPH AT	B-1	322.	1.07	65.	65.	65.	.58		
HYDROGRAPH AT	B-2	160.	.80	22.	22.	22.	.19		
2 COMBINED AT	AP-3	429.	.97	87.	87.	87.	.78		
ROUTED TO	RR-A	34.	2.53	24.	24.	24.	.78	5004.03	2.40
ROUTED TO	C-6A	34.	3.00	22.	22.	22.	.78	5850.27	2.97
ROUTED TO	C-6B	34.	3.37	20.	20.	20.	.78	5816.11	3.23
HYDROGRAPH AT	B-4	672.	.93	113.	113.	113.	1.01		
ROUTED TO	RR-1	463.	1.20	55.	55.	55.	1.01	5866.40	1.20
ROUTED TO	C-6F	260.	1.90	49.	49.	49.	1.01	5852.50	1.90
HYDROGRAPH AT	B-5	247.	.90	43.	43.	43.	.60		
ROUTED TO	RR-B	148.	1.27	25.	25.	25.	.60	5004.15	1.27
ROUTED TO	C-6C	90.	2.27	23.	23.	23.	.60	5860.17	2.27
ROUTED TO	C-6D	86.	2.47	22.	22.	22.	.60	5842.25	2.47
ROUTED TO	C-6E	82.	2.77	22.	22.	22.	.60	5816.41	2.77
HYDROGRAPH AT	B-6	754.	1.23	176.	176.	176.	1.76		
4 COMBINED AT	AP-6	754.	1.23	268.	268.	268.	4.15		
ROUTED TO	RR-2	651.	1.87	175.	175.	175.	4.15	5790.91	1.87
ROUTED TO	C-7A	645.	1.93	172.	172.	172.	4.15	5762.21	1.93
HYDROGRAPH AT	B-7	64.	1.33	21.	21.	21.	.18		
HYDROGRAPH AT	B-8	63.	1.93	24.	24.	24.	.75		
ROUTED TO	C-9A	57.	2.70	23.	23.	23.	.75	5852.25	2.67
ROUTED TO	C-9B	56.	2.97	23.	23.	23.	.75	5836.32	2.97
ROUTED TO	C-9C	55.	3.30	22.	22.	22.	.75	5776.17	3.30
HYDROGRAPH AT	B-9	332.	1.13	71.	71.	71.	.57		
3 COMBINED AT	AP-10	411.	1.17	113.	113.	113.	1.49		
ROUTED TO	RR-C	363.	1.63	59.	59.	59.	1.49	5004.20	1.63

2 COMBINED AT	AP-10	846.	1.70	231.	231.	231.	5.65		
ROUTED TO	C-11A	813.	1.97	227.	227.	227.	5.65	5735.64	1.97
HYDROGRAPH AT	B-11	183.	.77	23.	23.	23.	.19		
2 COMBINED AT	AP-11	820.	1.97	251.	251.	251.	5.84		
ROUTED TO	C-12A	806.	2.03	246.	246.	246.	5.84	5707.42	2.03
HYDROGRAPH AT	B-12	68.	.63	7.	7.	7.	.06		
2 COMBINED AT	AP-12	807.	2.03	253.	253.	253.	5.89		
HYDROGRAPH AT	B-14	443.	.93	72.	72.	72.	.40		
ROUTED TO	C-15	441.	.97	72.	72.	72.	.40	5116.99	.97
HYDROGRAPH AT	B-15	332.	1.00	60.	60.	60.	.33		
2 COMBINED AT	AP-15	772.	.97	132.	132.	132.	.72		
ROUTED TO	C-16	771.	.97	132.	132.	132.	.72	5114.01	.93
HYDROGRAPH AT	B-16	991.	1.03	183.	183.	183.	1.01		
2 COMBINED AT	AP-16	1758.	1.00	315.	315.	315.	1.73		
ROUTED TO	C-17	1731.	1.10	313.	313.	313.	1.73	5792.12	1.10
ROUTED TO	C-17A	1720.	1.20	310.	310.	310.	1.73	5792.46	1.20
HYDROGRAPH AT	B-17	535.	.93	89.	89.	89.	.53		
2 COMBINED AT	AP-17	2138.	1.13	399.	399.	399.	2.26		
ROUTED TO	C-18A	2135.	1.17	398.	398.	398.	2.26	5760.43	1.17
ROUTED TO	C-18B	2128.	1.20	397.	397.	397.	2.26	5737.59	1.20
HYDROGRAPH AT	B-18	302.	.70	35.	35.	35.	.20		
2 COMBINED AT	AP-18	2204.	1.20	432.	432.	432.	2.47		
HYDROGRAPH AT	B-13	274.	.77	35.	35.	35.	.20		
2 COMBINED AT	AP-18	2305.	1.17	467.	467.	467.	2.67		
ROUTED TO	RR-3	211.	2.73	118.	118.	118.	2.67	5005.59	2.73
ROUTED TO	C-19A	211.	2.97	109.	109.	109.	2.67	5712.49	2.93
HYDROGRAPH AT	B-19	131.	.63	14.	14.	14.	.12		
2 COMBINED AT	AP-19	214.	3.00	123.	123.	123.	2.79		
2 COMBINED AT	AP-20	858.	2.07	377.	377.	377.	8.68		
ROUTED TO	C-21A	842.	2.23	365.	365.	365.	8.68	5657.96	2.23
ROUTED TO	C-22A	839.	2.30	359.	359.	359.	8.68	5601.79	2.30
ROUTED TO	C-22B	837.	2.33	353.	353.	353.	8.68	5501.90	2.33

HYDROGRAPH AT	B-21	306.	.83	46.	46.	46.	.42		
ROUTED TO	C-22A	303.	.93	45.	45.	45.	.42	5601.01	.93
ROUTED TO	C-22B	300.	1.00	45.	45.	45.	.42	5501.01	1.00
HYDROGRAPH AT	B-22	438.	.77	58.	58.	58.	.58		
2 COMBINED AT	AP-22	626.	.90	103.	103.	103.	1.00		
ROUTED TO	RR-D	268.	1.50	52.	52.	52.	1.00	5004.20	1.50
2 COMBINED AT	AP-22	922.	2.33	405.	405.	405.	9.68		
HYDROGRAPH AT	B-23	182.	1.00	33.	33.	33.	.26		
ROUTED TO	C-24A	180.	1.10	33.	33.	33.	.26	5115.88	1.10
HYDROGRAPH AT	B-24	376.	1.03	70.	70.	70.	.55		
2 COMBINED AT	AP-24	552.	1.03	103.	103.	103.	.81		
ROUTED TO	RR-4	17.	6.00	11.	11.	11.	.81	5002.37	6.00
HYDROGRAPH AT	B-25	30.	1.93	11.	11.	11.	.23		
ROUTED TO	C-26	29.	2.30	11.	11.	11.	.23	5776.06	2.27
HYDROGRAPH AT	B-26	55.	1.10	11.	11.	11.	.12		
3 COMBINED AT	AP-26	58.	1.13	33.	33.	33.	1.17		
ROUTED TO	RR-5	25.	5.10	7.	7.	7.	1.17	5770.17	5.10
HYDROGRAPH AT	B-27	47.	.80	6.	6.	6.	.05		
2 COMBINED AT	AP-26	47.	.80	13.	13.	13.	1.21		
ROUTED TO	C-28A	41.	1.17	11.	11.	11.	1.21	5710.10	1.13
ROUTED TO	C-28B	38.	1.43	10.	10.	10.	1.21	5540.13	1.43
HYDROGRAPH AT	B-28	85.	2.03	34.	34.	34.	.83		
3 COMBINED AT	AP-29	1008.	2.33	449.	449.	449.	11.72		
ROUTED TO	C-31A	996.	2.50	432.	432.	432.	11.72	5416.90	2.50
ROUTED TO	C-34A	988.	2.60	423.	423.	423.	11.72	5332.10	2.60
ROUTED TO	C-35A	985.	2.63	418.	418.	418.	11.72	5195.35	2.63
HYDROGRAPH AT	B-31	223.	.97	40.	40.	40.	.43		
HYDROGRAPH AT	B-30	329.	.83	48.	48.	48.	.35		
HYDROGRAPH AT	B-32	582.	1.23	132.	132.	132.	1.11		
3 COMBINED AT	AP-33	989.	1.03	219.	219.	219.	1.89		
ROUTED TO	C-34A	984.	1.10	217.	217.	217.	1.89	5332.09	1.10
HYDROGRAPH AT	B-34	334.	1.10	67.	67.	67.	.60		

2 COMBINED AT	AP-34	1318.	1.10	284.	284.	284.	2.49		
ROUTED TO	C-35A	1316.	1.17	283.	283.	283.	2.49	5195.58	1.17
HYDROGRAPH AT	B-35	166.	.57	15.	15.	15.	.13		
2 COMBINED AT	AP-35	1339.	1.13	298.	298.	298.	2.62		
ROUTED TO	RR-E	1843.	1.47	154.	154.	154.	2.62	5004.23	1.47
2 COMBINED AT	AP-35	2070.	1.47	572.	572.	572.	14.34		
HYDROGRAPH AT	B-40	570.	.93	94.	94.	94.	.61		
HYDROGRAPH AT	B-41	57.	2.67	28.	28.	28.	.61		
2 COMBINED AT	AP-42	575.	.93	122.	122.	122.	1.23		
ROUTED TO	RR-6	80.	2.47	57.	57.	57.	1.23	5756.37	2.47
ROUTED TO	C-43A	80.	2.90	55.	55.	55.	1.23	5730.24	2.70
HYDROGRAPH AT	B-43	71.	1.40	19.	19.	19.	.49		
2 COMBINED AT	AP-43	119.	1.70	74.	74.	74.	1.72		
ROUTED TO	C-44A	119.	1.83	73.	73.	73.	1.72	5635.19	1.80
ROUTED TO	C-44B	119.	1.93	71.	71.	71.	1.72	5465.16	1.93
HYDROGRAPH AT	B-44	114.	1.53	33.	33.	33.	.85		
2 COMBINED AT	AP-44	218.	1.70	104.	104.	104.	2.57		
HYDROGRAPH AT	B-45	59.	1.03	11.	11.	11.	.24		
ROUTED TO	C-46A	57.	1.23	11.	11.	11.	.24	5480.31	1.23
HYDROGRAPH AT	B-46	76.	.77	10.	10.	10.	.12		
3 COMBINED AT	AP-47	261.	1.60	126.	126.	126.	2.92		
ROUTED TO	C-48A	260.	1.67	123.	123.	123.	2.92	5377.07	1.67
ROUTED TO	C-48B	259.	1.77	121.	121.	121.	2.92	5341.77	1.73
HYDROGRAPH AT	B-48	43.	1.70	15.	15.	15.	.44		
2 COMBINED AT	AP-48	302.	1.73	135.	135.	135.	3.36		
HYDROGRAPH AT	B-37	38.	1.60	12.	12.	12.	.26		
ROUTED TO	C-38A	37.	1.93	11.	11.	11.	.26	5490.21	1.93
ROUTED TO	C-38B	35.	2.47	11.	11.	11.	.26	5390.45	2.47
HYDROGRAPH AT	B-38	451.	.97	80.	80.	80.	.69		
2 COMBINED AT	AP-38	451.	.97	91.	91.	91.	.95		
HYDROGRAPH AT	B-36	273.	.93	46.	46.	46.	.35		
2 COMBINED AT	AP-39	723.	.97	137.	137.	137.	1.30		

ROUTED TO	RR-F	94.	2.20	58.	58.	58.	1.30	5004.09	2.10
2 COMBINED AT	AP-49	388.	1.80	193.	193.	193.	4.67		
ROUTED TO	C-50A	388.	1.83	191.	191.	191.	4.67	5182.77	1.83
HYDROGRAPH AT	B-50	74.	.53	6.	6.	6.	.05		
3 COMBINED AT	AP-51	2383.	1.53	770.	770.	770.	19.06		
ROUTED TO	C-53A	1644.	1.60	762.	762.	762.	19.06	5168.96	1.60
HYDROGRAPH AT	B-53	225.	.57	19.	19.	19.	.16		
HYDROGRAPH AT	B-52	284.	.83	42.	42.	42.	.32		
ROUTED TO	RR-G	233.	1.07	22.	22.	22.	.32	5004.20	1.07
3 COMBINED AT	AP-53	1717.	1.57	803.	803.	803.	19.54		
ROUTED TO	C-54A	1697.	1.67	792.	792.	792.	19.54	5152.35	1.67
HYDROGRAPH AT	B-54	85.	.67	10.	10.	10.	.09		
2 COMBINED AT	AP-54	1703.	1.67	802.	802.	802.	19.63		
ROUTED TO	C-57B	1678.	1.73	791.	791.	791.	19.63	5127.63	1.73
HYDROGRAPH AT	B-57	42.	.63	4.	4.	4.	.03		
HYDROGRAPH AT	B-55	833.	.93	139.	139.	139.	1.01		
ROUTED TO	C-56A	826.	1.03	138.	138.	138.	1.01	5141.40	1.03
HYDROGRAPH AT	B-56	357.	.70	42.	42.	42.	.38		
2 COMBINED AT	AP-56	992.	.97	180.	180.	180.	1.38		
ROUTED TO	RR-H	1188.	1.20	94.	94.	94.	1.38	5004.22	1.20
ROUTED TO	C-57A	716.	1.27	93.	93.	93.	1.38	5119.33	1.27
3 COMBINED AT	AP-57	1987.	1.70	888.	888.	888.	21.05		
ROUTED TO	C-60A	1968.	1.73	882.	882.	882.	21.05	5117.97	1.73
HYDROGRAPH AT	B-58	118.	.60	12.	12.	12.	.10		
HYDROGRAPH AT	B-59	116.	.73	15.	15.	15.	.12		
HYDROGRAPH AT	B-60	35.	.93	6.	6.	6.	.08		
4 COMBINED AT	AP-60	1988.	1.73	914.	914.	914.	21.34		
ROUTED TO	RR-7	564.	6.00	319.	319.	319.	21.34	5112.15	6.00

MARIPOSA BASIN MASTER PLAN
25 YEAR - 6 HOUR RAINFALL
DEVELOPED WITH IMPROVEMENTS

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD 6-HOUR	24-HOUR	72-HOUR	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
HYDROGRAPH AT	B-1	267.	1.07	54.	54.	54.	.58		
HYDROGRAPH AT	B-2	132.	.80	18.	18.	18.	.19		
2 COMBINED AT	AP-3	356.	.97	72.	72.	72.	.78		
ROUTED TO	RR-A	22.	2.80	16.	16.	16.	.78	5004.02	2.43
ROUTED TO	C-6A	22.	3.30	14.	14.	14.	.78	5850.18	3.17
ROUTED TO	C-6B	22.	3.67	13.	13.	13.	.78	5816.07	3.53
HYDROGRAPH AT	B-4	556.	.93	94.	94.	94.	1.01		
ROUTED TO	RR-1	272.	1.37	37.	37.	37.	1.01	5865.75	1.37
ROUTED TO	C-6F	140.	2.20	32.	32.	32.	1.01	5852.34	2.20
HYDROGRAPH AT	B-5	198.	.90	35.	35.	35.	.60		
ROUTED TO	RR-B	91.	1.40	17.	17.	17.	.60	5004.09	1.40
ROUTED TO	C-6C	56.	2.37	15.	15.	15.	.60	5860.11	2.37
ROUTED TO	C-6D	50.	2.70	15.	15.	15.	.60	5842.18	2.70
ROUTED TO	C-6E	49.	3.00	14.	14.	14.	.60	5816.24	2.97
HYDROGRAPH AT	B-6	626.	1.23	146.	146.	146.	1.76		
4 COMBINED AT	AP-6	626.	1.23	205.	205.	205.	4.15		
ROUTED TO	RR-2	344.	2.13	113.	113.	113.	4.15	5790.61	2.13
ROUTED TO	C-7A	341.	2.23	110.	110.	110.	4.15	5761.52	2.23
HYDROGRAPH AT	B-7	70.	1.30	17.	17.	17.	.18		
HYDROGRAPH AT	B-8	48.	1.90	19.	19.	19.	.75		
ROUTED TO	C-9A	44.	2.67	18.	18.	18.	.75	5852.19	2.63
ROUTED TO	C-9B	43.	3.00	17.	17.	17.	.75	5836.25	3.00
ROUTED TO	C-9C	42.	3.33	17.	17.	17.	.75	5776.13	3.30
HYDROGRAPH AT	B-9	279.	1.13	59.	59.	59.	.57		
3 COMBINED AT	AP-10	345.	1.17	93.	93.	93.	1.49		
ROUTED TO	RR-C	149.	1.90	39.	39.	39.	1.49	5004.15	1.90

2 COMBINED AT	AP-10	467.	1.93	149.	149.	149.	5.65		
ROUTED TO	C-11A	435.	2.23	146.	146.	146.	5.65	5735.19	2.23
HYDROGRAPH AT	B-11	151.	.77	20.	20.	20.	.19		
2 COMBINED AT	AP-11	440.	2.23	165.	165.	165.	5.84		
ROUTED TO	C-12A	435.	2.33	162.	162.	162.	5.84	5707.04	2.33
HYDROGRAPH AT	B-12	56.	.63	6.	6.	6.	.06		
2 COMBINED AT	AP-12	437.	2.33	168.	168.	168.	5.89		
HYDROGRAPH AT	B-14	382.	.93	62.	62.	62.	.40		
ROUTED TO	C-15	381.	.97	62.	62.	62.	.40	5116.77	.97
HYDROGRAPH AT	B-15	287.	1.00	52.	52.	52.	.33		
2 COMBINED AT	AP-15	666.	.97	114.	114.	114.	.72		
ROUTED TO	C-16	666.	.97	114.	114.	114.	.72	5114.01	.93
HYDROGRAPH AT	B-16	856.	1.03	159.	159.	159.	1.01		
2 COMBINED AT	AP-16	1518.	1.00	272.	272.	272.	1.73		
ROUTED TO	C-17	1495.	1.10	271.	271.	271.	1.73	5791.93	1.10
ROUTED TO	C-17A	1485.	1.20	269.	269.	269.	1.73	5792.31	1.20
HYDROGRAPH AT	B-17	458.	.93	76.	76.	76.	.53		
2 COMBINED AT	AP-17	1842.	1.13	345.	345.	345.	2.26		
ROUTED TO	C-18A	1840.	1.17	344.	344.	344.	2.26	5760.28	1.17
ROUTED TO	C-18B	1831.	1.20	343.	343.	343.	2.26	5737.50	1.20
HYDROGRAPH AT	B-18	258.	.70	30.	30.	30.	.20		
2 COMBINED AT	AP-18	1896.	1.20	373.	373.	373.	2.47		
HYDROGRAPH AT	B-13	236.	.73	30.	30.	30.	.20		
2 COMBINED AT	AP-18	1978.	1.20	403.	403.	403.	2.67		
ROUTED TO	RR-3	116.	3.20	71.	71.	71.	2.67	5003.90	3.20
ROUTED TO	C-19A	115.	3.63	64.	64.	64.	2.67	5712.32	3.57
HYDROGRAPH AT	B-19	107.	.63	11.	11.	11.	.12		
2 COMBINED AT	AP-19	118.	3.63	76.	76.	76.	2.79		
2 COMBINED AT	AP-20	485.	2.40	243.	243.	243.	8.68		
ROUTED TO	C-21A	477.	2.60	234.	234.	234.	8.68	5657.55	2.60
ROUTED TO	C-22A	476.	2.67	229.	229.	229.	8.68	5601.30	2.67
ROUTED TO	C-22B	475.	2.73	224.	224.	224.	8.68	5501.35	2.73

HYDROGRAPH AT	B-21	248.	.83	38.	38.	38.	.42		
ROUTED TO	C-22A	245.	.93	37.	37.	37.	.42	5600.91	.93
ROUTED TO	C-22B	245.	.97	37.	37.	37.	.42	5500.91	.97
HYDROGRAPH AT	B-22	353.	.77	47.	47.	47.	.58		
2 COMBINED AT	AP-22	485.	.97	85.	85.	85.	1.00		
ROUTED TO	RR-D	74.	1.87	34.	34.	34.	1.00	5004.07	1.83
2 COMBINED AT	AP-22	529.	2.73	258.	258.	258.	9.68		
HYDROGRAPH AT	B-23	152.	1.00	28.	28.	28.	.26		
ROUTED TO	C-24A	150.	1.10	27.	27.	27.	.26	5115.72	1.10
HYDROGRAPH AT	B-24	314.	1.03	59.	59.	59.	.55		
2 COMBINED AT	AP-24	460.	1.07	86.	86.	86.	.81		
ROUTED TO	RR-4	11.	6.00	6.	6.	6.	.81	5001.74	6.00
HYDROGRAPH AT	B-25	22.	1.93	8.	8.	8.	.23		
ROUTED TO	C-26	21.	2.33	8.	8.	8.	.23	5776.04	2.27
HYDROGRAPH AT	B-26	43.	1.10	8.	8.	8.	.12		
3 COMBINED AT	AP-26	45.	1.13	22.	22.	22.	1.17		
ROUTED TO	RR-5	0.	6.00	0.	0.	0.	1.17	5769.70	6.00
HYDROGRAPH AT	B-27	40.	.80	5.	5.	5.	.05		
2 COMBINED AT	AP-26	40.	.80	5.	5.	5.	1.21		
ROUTED TO	C-28A	35.	1.17	5.	5.	5.	1.21	5710.09	1.13
ROUTED TO	C-28B	32.	1.43	5.	5.	5.	1.21	5540.11	1.43
HYDROGRAPH AT	B-28	59.	2.07	24.	24.	24.	.83		
3 COMBINED AT	AP-29	574.	2.73	288.	288.	288.	11.72		
ROUTED TO	C-31A	567.	2.90	274.	274.	274.	11.72	5416.37	2.90
ROUTED TO	C-34A	565.	3.00	267.	267.	267.	11.72	5331.62	3.00
ROUTED TO	C-35A	564.	3.07	264.	264.	264.	11.72	5195.05	3.07
HYDROGRAPH AT	B-31	179.	.97	32.	32.	32.	.43		
HYDROGRAPH AT	B-30	273.	.83	40.	40.	40.	.35		
HYDROGRAPH AT	B-32	481.	1.23	110.	110.	110.	1.11		
3 COMBINED AT	AP-33	815.	1.03	182.	182.	182.	1.69		
ROUTED TO	C-34A	810.	1.10	180.	180.	180.	1.89	5331.90	1.10
HYDROGRAPH AT	B-34	274.	1.10	56.	56.	56.	.60		

2 COMBINED AT	AP-34	1084.	1.10	236.	236.	236.	2.49		
ROUTED TO	C-35A	1082.	1.17	235.	235.	235.	2.49	5195.42	1.17
HYDROGRAPH AT	B-35	136.	.57	12.	12.	12.	.13		
2 COMBINED AT	AP-35	1102.	1.13	247.	247.	247.	2.62		
ROUTED TO	RR-E	1014.	1.67	104.	104.	104.	2.62	5004.22	1.67
2 COMBINED AT	AP-35	1287.	1.67	368.	368.	368.	14.34		
HYDROGRAPH AT	B-40	484.	.93	80.	80.	80.	.61		
HYDROGRAPH AT	B-41	41.	2.67	20.	20.	20.	.61		
2 COMBINED AT	AP-42	487.	.93	100.	100.	100.	1.23		
ROUTED TO	RR-6	57.	2.70	41.	41.	41.	1.23	5756.25	2.70
ROUTED TO	C-43A	57.	3.23	40.	40.	40.	1.23	5730.17	2.93
HYDROGRAPH AT	B-43	49.	1.43	14.	14.	14.	.49		
2 COMBINED AT	AP-43	82.	1.73	54.	54.	54.	1.72		
ROUTED TO	C-44A	82.	1.87	52.	52.	52.	1.72	5635.13	1.83
ROUTED TO	C-44B	82.	1.97	51.	51.	51.	1.72	5465.01	1.97
HYDROGRAPH AT	B-44	78.	1.53	24.	24.	24.	.85		
2 COMBINED AT	AP-44	149.	1.73	74.	74.	74.	2.57		
HYDROGRAPH AT	B-45	41.	1.03	8.	8.	8.	.24		
ROUTED TO	C-46A	40.	1.27	8.	8.	8.	.24	5480.22	1.27
HYDROGRAPH AT	B-46	59.	.77	8.	8.	8.	.12		
3 COMBINED AT	AP-47	180.	1.60	91.	91.	91.	2.92		
ROUTED TO	C-48A	179.	1.70	89.	89.	89.	2.92	5376.83	1.70
ROUTED TO	C-48B	179.	1.80	87.	87.	87.	2.92	5341.47	1.80
HYDROGRAPH AT	B-48	31.	1.67	11.	11.	11.	.44		
2 COMBINED AT	AP-48	209.	1.80	97.	97.	97.	3.36		
HYDROGRAPH AT	B-37	27.	1.63	9.	9.	9.	.26		
ROUTED TO	C-38A	26.	1.97	8.	8.	8.	.26	5490.15	1.93
ROUTED TO	C-38B	25.	2.47	8.	8.	8.	.26	5390.32	2.47
HYDROGRAPH AT	B-38	370.	.97	66.	66.	66.	.69		
2 COMBINED AT	AP-38	370.	.97	74.	74.	74.	.95		
HYDROGRAPH AT	B-36	226.	.93	38.	38.	38.	.35		
2 COMBINED AT	AP-39	596.	.97	113.	113.	113.	1.30		

ROUTED TO	RR-F	60.	2.50	38.	38.	38.	1.30	5004.06	2.37
2 COMBINED AT	AP-49	260.	1.87	135.	135.	135.	4.67		
ROUTED TO	C-50A	260.	1.90	134.	134.	134.	4.67	5182.60	1.90
HYDROGRAPH AT	B-50	60.	.53	5.	5.	5.	.05		
3 COMBINED AT	AP-51	1528.	1.67	507.	507.	507.	19.06		
ROUTED TO	C-53A	1143.	1.77	500.	500.	500.	19.06	5168.46	1.77
HYDROGRAPH AT	B-53	184.	.57	16.	16.	16.	.16		
HYDROGRAPH AT	B-52	236.	.83	35.	35.	35.	.32		
ROUTED TO	RR-G	133.	1.20	15.	15.	15.	.32	5004.13	1.20
3 COMBINED AT	AP-53	1180.	1.77	531.	531.	531.	19.54		
ROUTED TO	C-54A	1153.	1.83	523.	523.	523.	19.54	5151.69	1.83
HYDROGRAPH AT	B-54	70.	.67	8.	8.	8.	.09		
2 COMBINED AT	AP-54	1156.	1.83	531.	531.	531.	19.63		
ROUTED TO	C-57B	1135.	1.93	522.	522.	522.	19.63	5126.87	1.93
HYDROGRAPH AT	B-57	34.	.63	3.	3.	3.	.03		
HYDROGRAPH AT	B-55	694.	.93	117.	117.	117.	1.01		
ROUTED TO	C-56A	688.	1.03	116.	116.	116.	1.01	5141.28	1.03
HYDROGRAPH AT	B-56	293.	.70	35.	35.	35.	.38		
2 COMBINED AT	AP-56	819.	1.00	151.	151.	151.	1.38		
ROUTED TO	RR-H	897.	1.33	65.	65.	65.	1.38	5004.21	1.33
ROUTED TO	C-57A	449.	1.43	64.	64.	64.	1.38	5118.54	1.43
3 COMBINED AT	AP-57	1305.	1.90	589.	589.	589.	21.05		
ROUTED TO	C-60A	1291.	1.93	584.	584.	584.	21.05	5117.10	1.93
HYDROGRAPH AT	B-58	97.	.60	10.	10.	10.	.10		
HYDROGRAPH AT	B-59	96.	.73	12.	12.	12.	.12		
HYDROGRAPH AT	B-60	27.	.93	5.	5.	5.	.08		
4 COMBINED AT	AP-60	1300.	1.93	611.	611.	611.	21.34		
ROUTED TO	RR-7	409.	6.00	200.	200.	200.	21.34	5109.71	6.00

MARIPOSA BASIN MASTER PLAN
10 YEAR - 6 HOUR RAINFALL
DEVELOPED WITH IMPROVEMENTS

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD 6-HOUR	24-HOUR	72-HOUR	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
HYDROGRAPH AT	B-1	199.	1.07	40.	40.	40.	.58		
HYDROGRAPH AT	B-2	98.	.77	14.	14.	14.	.19		
2 COMBINED AT	AP-3	266.	.97	54.	54.	54.	.78		
ROUTED TO	RR-A	10.	6.00	5.	5.	5.	.78	5004.01	5.87
ROUTED TO	C-6A	10.	6.00	5.	5.	5.	.78	5850.08	6.00
ROUTED TO	C-6B	10.	6.00	4.	4.	4.	.78	5816.03	5.90
HYDROGRAPH AT	B-4	414.	.90	70.	70.	70.	1.01		
ROUTED TO	RR-1	35.	2.10	13.	13.	13.	1.01	5864.36	2.10
ROUTED TO	C-6F	20.	3.67	9.	9.	9.	1.01	5852.07	3.63
HYDROGRAPH AT	B-5	142.	.87	25.	25.	25.	.60		
ROUTED TO	RR-B	25.	1.80	7.	7.	7.	.60	5004.03	1.77
ROUTED TO	C-6C	15.	2.77	6.	6.	6.	.60	5860.03	2.73
ROUTED TO	C-6D	14.	3.13	5.	5.	5.	.60	5842.05	3.07
ROUTED TO	C-6E	13.	3.40	5.	5.	5.	.60	5816.07	3.37
HYDROGRAPH AT	B-6	469.	1.23	109.	109.	109.	1.76		
4 COMBINED AT	AP-6	469.	1.23	128.	128.	128.	4.15		
ROUTED TO	RR-2	72.	3.40	35.	35.	35.	4.15	5790.22	3.40
ROUTED TO	C-7A	71.	3.67	33.	33.	33.	4.15	5760.62	3.67
HYDROGRAPH AT	B-7	52.	1.30	13.	13.	13.	.18		
HYDROGRAPH AT	B-8	34.	1.87	13.	13.	13.	.75		
ROUTED TO	C-9A	31.	2.60	12.	12.	12.	.75	5852.14	2.60
ROUTED TO	C-9B	30.	2.93	12.	12.	12.	.75	5836.17	2.90
ROUTED TO	C-9C	30.	3.27	12.	12.	12.	.75	5776.09	3.23
HYDROGRAPH AT	B-9	212.	1.13	45.	45.	45.	.57		
3 COMBINED AT	AP-10	261.	1.17	70.	70.	70.	1.49		
ROUTED TO	RR-C	48.	3.17	15.	15.	15.	1.49	5004.05	3.17

2 COMBINED AT	AP-10	116.	3.43	49.	49.	49.	5.65		
ROUTED TO	C-11A	115.	3.57	46.	46.	46.	5.65	5734.58	3.53
HYDROGRAPH AT	B-11	111.	.73	15.	15.	15.	.19		
2 COMBINED AT	AP-11	119.	3.57	61.	61.	61.	5.84		
ROUTED TO	C-12A	118.	3.73	58.	58.	58.	5.84	5706.51	3.70
HYDROGRAPH AT	B-12	41.	.63	4.	4.	4.	.06		
2 COMBINED AT	AP-12	120.	.87	62.	62.	62.	5.89		
HYDROGRAPH AT	B-14	302.	.93	50.	50.	50.	.40		
ROUTED TO	C-15	301.	.97	49.	49.	49.	.40	5116.46	.97
HYDROGRAPH AT	B-15	227.	1.00	41.	41.	41.	.33		
2 COMBINED AT	AP-15	526.	.97	90.	90.	90.	.72		
ROUTED TO	C-16	526.	1.00	90.	90.	90.	.72	5114.01	.90
HYDROGRAPH AT	B-16	677.	1.03	126.	126.	126.	1.01		
2 COMBINED AT	AP-16	1201.	1.00	216.	216.	216.	1.73		
ROUTED TO	C-17	1182.	1.10	215.	215.	215.	1.73	5791.68	1.10
ROUTED TO	C-17A	1169.	1.20	213.	213.	213.	1.73	5792.06	1.20
HYDROGRAPH AT	B-17	357.	.93	60.	60.	60.	.53		
2 COMBINED AT	AP-17	1437.	1.17	273.	273.	273.	2.26		
ROUTED TO	C-18A	1432.	1.20	272.	272.	272.	2.26	5760.06	1.20
ROUTED TO	C-18B	1421.	1.27	271.	271.	271.	2.26	5737.30	1.27
HYDROGRAPH AT	B-18	201.	.70	23.	23.	23.	.20		
2 COMBINED AT	AP-18	1465.	1.23	295.	295.	295.	2.47		
HYDROGRAPH AT	B-13	187.	.73	24.	24.	24.	.20		
2 COMBINED AT	AP-18	1524.	1.23	318.	318.	318.	2.67		
ROUTED TO	RR-3	43.	6.00	18.	18.	18.	2.67	5002.02	6.00
ROUTED TO	C-19A	41.	6.00	15.	15.	15.	2.67	5712.11	6.00
HYDROGRAPH AT	B-19	77.	.63	8.	8.	8.	.12		
2 COMBINED AT	AP-19	77.	.63	24.	24.	24.	2.79		
2 COMBINED AT	AP-20	165.	.83	86.	86.	86.	8.68		
ROUTED TO	C-21A	157.	1.00	80.	80.	80.	8.68	5656.92	1.00
ROUTED TO	C-22A	153.	1.17	77.	77.	77.	8.68	5600.68	1.17
ROUTED TO	C-22B	150.	1.30	74.	74.	74.	8.68	5500.64	1.30

HYDROGRAPH AT	B-21	177.	.83	27.	27.	27.	.42		
ROUTED TO	C-22A	170.	1.00	27.	27.	27.	.42	5600.75	1.00
ROUTED TO	C-22B	165.	1.13	27.	27.	27.	.42	5500.71	1.13
HYDROGRAPH AT	B-22	250.	.73	34.	34.	34.	.58		
2 COMBINED AT	AP-22	309.	.83	61.	61.	61.	1.00		
ROUTED TO	RR-D	21.	2.33	13.	13.	13.	1.00	5004.02	2.17
2 COMBINED AT	AP-22	163.	4.40	87.	87.	87.	9.68		
HYDROGRAPH AT	B-23	114.	1.00	21.	21.	21.	.26		
ROUTED TO	C-24A	113.	1.10	21.	21.	21.	.26	5115.46	1.10
HYDROGRAPH AT	B-24	236.	1.00	44.	44.	44.	.55		
2 COMBINED AT	AP-24	346.	1.03	65.	65.	65.	.81		
ROUTED TO	RR-4	4.	6.00	2.	2.	2.	.81	5000.83	6.00
HYDROGRAPH AT	B-25	12.	1.97	5.	5.	5.	.23		
ROUTED TO	C-26	12.	2.37	5.	5.	5.	.23	5776.02	2.33
HYDROGRAPH AT	B-26	27.	1.13	6.	6.	6.	.12		
3 COMBINED AT	AP-26	28.	1.17	12.	12.	12.	1.17		
ROUTED TO	RR-5	0.	.03	0.	0.	0.	1.17	5768.22	6.00
HYDROGRAPH AT	B-27	30.	.80	4.	4.	4.	.05		
2 COMBINED AT	AP-26	30.	.80	4.	4.	4.	1.21		
ROUTED TO	C-28A	27.	1.17	4.	4.	4.	1.21	5710.07	1.13
ROUTED TO	C-28B	25.	1.43	4.	4.	4.	1.21	5540.09	1.43
HYDROGRAPH AT	B-28	31.	2.10	13.	13.	13.	.83		
3 COMBINED AT	AP-29	189.	1.33	105.	105.	105.	11.72		
ROUTED TO	C-31A	176.	1.70	96.	96.	96.	11.72	5415.67	1.70
ROUTED TO	C-34A	174.	1.87	92.	92.	92.	11.72	5330.90	1.87
ROUTED TO	C-35A	174.	1.90	89.	89.	89.	11.72	5194.56	1.90
HYDROGRAPH AT	B-31	127.	.97	23.	23.	23.	.43		
HYDROGRAPH AT	B-30	201.	.83	30.	30.	30.	.35		
HYDROGRAPH AT	B-32	353.	1.23	81.	81.	81.	1.11		
3 COMBINED AT	AP-33	596.	1.03	134.	134.	134.	1.89		
ROUTED TO	C-34A	593.	1.10	133.	133.	133.	1.89	5331.65	1.10
HYDROGRAPH AT	B-34	199.	1.10	41.	41.	41.	.60		

2 COMBINED AT	AP-34	792.	1.10	174.	174.	174.	2.49		
ROUTED TO	C-35A	790.	1.17	173.	173.	173.	2.49	5195.21	1.17
HYDROGRAPH AT	B-35	99.	.57	9.	9.	9.	.13		
2 COMBINED AT	AP-35	805.	1.13	182.	182.	182.	2.62		
ROUTED TO	RR-E	91.	2.73	42.	42.	42.	2.62	5004.09	2.70
2 COMBINED AT	AP-35	224.	4.93	131.	131.	131.	14.34		
HYDROGRAPH AT	B-40	372.	.93	62.	62.	62.	.61		
HYDROGRAPH AT	B-41	23.	2.73	12.	12.	12.	.61		
2 COMBINED AT	AP-42	373.	.93	73.	73.	73.	1.23		
ROUTED TO	RR-6	31.	3.23	23.	23.	23.	1.23	5756.08	3.23
ROUTED TO	C-43A	31.	3.70	22.	22.	22.	1.23	5730.10	3.40
HYDROGRAPH AT	B-43	25.	1.47	8.	8.	8.	.49		
2 COMBINED AT	AP-43	42.	1.83	29.	29.	29.	1.72		
ROUTED TO	C-44A	41.	1.97	29.	29.	29.	1.72	5635.06	1.90
ROUTED TO	C-44B	41.	2.07	27.	27.	27.	1.72	5464.85	2.07
HYDROGRAPH AT	B-44	40.	1.57	13.	13.	13.	.85		
2 COMBINED AT	AP-44	72.	1.97	40.	40.	40.	2.57		
HYDROGRAPH AT	B-45	21.	1.07	5.	5.	5.	.24		
ROUTED TO	C-46A	21.	1.30	5.	5.	5.	.24	5480.11	1.27
HYDROGRAPH AT	B-46	40.	.77	6.	6.	6.	.12		
3 COMBINED AT	AP-47	86.	1.67	51.	51.	51.	2.92		
ROUTED TO	C-48A	85.	1.73	50.	50.	50.	2.92	5376.56	1.73
ROUTED TO	C-48B	85.	1.87	48.	48.	48.	2.92	5341.00	1.83
HYDROGRAPH AT	B-48	18.	1.63	6.	6.	6.	.44		
2 COMBINED AT	AP-48	103.	1.80	54.	54.	54.	3.36		
HYDROGRAPH AT	B-37	14.	1.67	5.	5.	5.	.26		
ROUTED TO	C-38A	14.	2.00	5.	5.	5.	.26	5490.08	1.97
ROUTED TO	C-38B	13.	2.50	4.	4.	4.	.26	5390.17	2.50
HYDROGRAPH AT	B-38	270.	.97	49.	49.	49.	.69		
2 COMBINED AT	AP-38	270.	.97	54.	54.	54.	.95		
HYDROGRAPH AT	B-36	168.	.93	29.	29.	29.	.35		
2 COMBINED AT	AP-39	437.	.97	82.	82.	82.	1.30		

ROUTED TO	RR-F	23.	6.00	14.	14.	14.	1.30	5004.02	4.57
2 COMBINED AT	AP-49	107.	2.03	68.	68.	68.	4.67		
ROUTED TO	C-50A	107.	2.10	67.	67.	67.	4.67	5182.34	2.07
HYDROGRAPH AT	B-50	44.	.53	4.	4.	4.	.05		
3 COMBINED AT	AP-51	308.	2.33	201.	201.	201.	19.06		
ROUTED TO	C-53A	307.	2.40	197.	197.	197.	19.06	5167.22	2.40
HYDROGRAPH AT	B-53	133.	.57	12.	12.	12.	.16		
HYDROGRAPH AT	B-52	174.	.83	26.	26.	26.	.32		
ROUTED TO	RR-G	34.	1.60	6.	6.	6.	.32	5004.03	1.60
3 COMBINED AT	AP-53	317.	2.40	215.	215.	215.	19.54		
ROUTED TO	C-54A	315.	2.50	209.	209.	209.	19.54	5150.06	2.50
HYDROGRAPH AT	B-54	52.	.67	6.	6.	6.	.09		
2 COMBINED AT	AP-54	317.	2.50	216.	216.	216.	19.63		
ROUTED TO	C-57B	316.	2.60	209.	209.	209.	19.63	5125.33	2.60
HYDROGRAPH AT	B-57	25.	.60	3.	3.	3.	.03		
HYDROGRAPH AT	B-55	516.	.93	88.	88.	88.	1.01		
ROUTED TO	C-56A	511.	1.03	87.	87.	87.	1.01	5141.08	1.03
HYDROGRAPH AT	B-56	216.	.67	26.	26.	26.	.38		
2 COMBINED AT	AP-56	604.	1.00	113.	113.	113.	1.38		
ROUTED TO	RR-H	121.	1.87	27.	27.	27.	1.38	5004.12	1.87
ROUTED TO	C-57A	102.	1.97	27.	27.	27.	1.38	5117.05	1.97
3 COMBINED AT	AP-57	384.	2.13	238.	238.	238.	21.05		
ROUTED TO	C-60A	383.	2.17	234.	234.	234.	21.05	5115.50	2.17
HYDROGRAPH AT	B-58	71.	.60	7.	7.	7.	.10		
HYDROGRAPH AT	B-59	70.	.73	9.	9.	9.	.12		
HYDROGRAPH AT	B-60	17.	.97	3.	3.	3.	.08		
4 COMBINED AT	AP-60	388.	2.17	254.	254.	254.	21.34		
ROUTED TO	RR-7	151.	6.00	73.	73.	73.	21.34	5106.59	6.00

MARIPOSA BASIN MASTER PLAN
5 YEAR - 6 HOUR RAINFALL
DEVELOPED WITH IMPROVEMENTS

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD 6-HOUR	24-HOUR	72-HOUR	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
HYDROGRAPH AT	B-1	153.	1.07	31.	31.	31.	.58		
HYDROGRAPH AT	B-2	75.	.77	10.	10.	10.	.19		
2 COMBINED AT	AP-3	204.	.93	41.	41.	41.	.78		
ROUTED TO	RR-A	1.	6.00	0.	0.	0.	.78	5004.00	5.90
ROUTED TO	C-6A	0.	6.00	0.	0.	0.	.78	5850.00	6.00
ROUTED TO	C-6B	0.	6.00	0.	0.	0.	.78	5816.00	.00
HYDROGRAPH AT	B-4	318.	.90	54.	54.	54.	1.01		
ROUTED TO	RR-1	0.	.03	0.	0.	0.	1.01	5857.27	6.00
ROUTED TO	C-6F	0.	.03	0.	0.	0.	1.01	5852.00	.00
HYDROGRAPH AT	B-5	109.	.87	18.	18.	18.	.60		
ROUTED TO	RR-B	5.	6.00	0.	0.	0.	.60	5004.00	5.93
ROUTED TO	C-6C	0.	6.00	0.	0.	0.	.60	5860.00	.00
ROUTED TO	C-6D	0.	6.00	0.	0.	0.	.60	5842.00	.00
ROUTED TO	C-6E	0.	.03	0.	0.	0.	.60	5816.00	.00
HYDROGRAPH AT	B-6	363.	1.20	84.	84.	84.	1.76		
4 COMBINED AT	AP-6	363.	1.20	84.	84.	84.	4.15		
ROUTED TO	RR-2	0.	.03	0.	0.	0.	4.15	5783.03	6.00
ROUTED TO	C-7A	0.	.03	0.	0.	0.	4.15	5760.00	.00
HYDROGRAPH AT	B-7	39.	1.30	10.	10.	10.	.18		
HYDROGRAPH AT	B-8	27.	1.83	9.	9.	9.	.75		
ROUTED TO	C-9A	25.	2.57	9.	9.	9.	.75	5852.11	2.57
ROUTED TO	C-9B	24.	2.93	9.	9.	9.	.75	5836.14	2.90
ROUTED TO	C-9C	24.	3.23	9.	9.	9.	.75	5776.07	3.23
HYDROGRAPH AT	B-9	165.	1.13	35.	35.	35.	.57		
3 COMBINED AT	AP-10	202.	1.17	54.	54.	54.	1.49		
ROUTED TO	RR-C	0.	.03	0.	0.	0.	1.49	5003.96	6.00

2 COMBINED AT	AP-10	0.	.03	0.	0.	0.	5.65		
ROUTED TO	C-11A	0.	.03	0.	0.	0.	5.65	5734.00	.00
HYDROGRAPH AT	B-11	84.	.73	11.	11.	11.	.19		
2 COMBINED AT	AP-11	84.	.73	11.	11.	11.	5.84		
ROUTED TO	C-12A	70.	.93	11.	11.	11.	5.84	5706.39	.93
HYDROGRAPH AT	B-12	31.	.63	3.	3.	3.	.06		
2 COMBINED AT	AP-12	83.	.90	14.	14.	14.	5.89		
HYDROGRAPH AT	B-14	242.	.93	40.	40.	40.	.40		
ROUTED TO	C-15	241.	.97	40.	40.	40.	.40	5116.20	.97
HYDROGRAPH AT	B-15	182.	1.00	33.	33.	33.	.33		
2 COMBINED AT	AP-15	422.	.97	73.	73.	73.	.72		
ROUTED TO	C-16	422.	.97	73.	73.	73.	.72	5114.01	.93
HYDROGRAPH AT	B-16	543.	1.03	101.	101.	101.	1.01		
2 COMBINED AT	AP-16	963.	1.00	174.	174.	174.	1.73		
ROUTED TO	C-17	948.	1.10	173.	173.	173.	1.73	5791.49	1.10
ROUTED TO	C-17A	936.	1.23	171.	171.	171.	1.73	5791.84	1.23
HYDROGRAPH AT	B-17	283.	.93	47.	47.	47.	.53		
2 COMBINED AT	AP-17	1143.	1.17	219.	219.	219.	2.26		
ROUTED TO	C-18A	1139.	1.20	218.	218.	218.	2.26	5759.77	1.20
ROUTED TO	C-18B	1129.	1.27	217.	217.	217.	2.26	5737.14	1.27
HYDROGRAPH AT	B-18	158.	.70	18.	18.	18.	.20		
2 COMBINED AT	AP-18	1162.	1.27	236.	236.	236.	2.47		
HYDROGRAPH AT	B-13	151.	.73	19.	19.	19.	.20		
2 COMBINED AT	AP-18	1205.	1.27	255.	255.	255.	2.67		
ROUTED TO	RR-3	0.	.03	0.	0.	0.	2.67	4999.99	6.00
ROUTED TO	C-19A	0.	.03	0.	0.	0.	2.67	5712.00	.00
HYDROGRAPH AT	B-19	58.	.63	6.	6.	6.	.12		
2 COMBINED AT	AP-19	58.	.63	6.	6.	6.	2.79		
2 COMBINED AT	AP-20	123.	.70	21.	21.	21.	8.68		
ROUTED TO	C-21A	115.	1.00	20.	20.	20.	8.68	5656.77	1.00
ROUTED TO	C-22A	112.	1.17	20.	20.	20.	8.68	5600.50	1.17
ROUTED TO	C-22B	110.	1.30	20.	20.	20.	8.68	5500.47	1.30

HYDROGRAPH AT	B-21	128.	.83	20.	20.	20.	.42		
ROUTED TO	C-22A	123.	1.00	20.	20.	20.	.42	5600.55	1.00
ROUTED TO	C-22B	120.	1.13	20.	20.	20.	.42	5500.51	1.13
HYDROGRAPH AT	B-22	183.	.73	25.	25.	25.	.58		
2 COMBINED AT	AP-22	226.	.83	45.	45.	45.	1.00		
ROUTED TO	RR-D	3.	6.00	0.	0.	0.	1.00	5004.00	6.00
2 COMBINED AT	AP-22	110.	1.30	20.	20.	20.	9.68		
HYDROGRAPH AT	B-23	88.	1.00	16.	16.	16.	.26		
ROUTED TO	C-24A	86.	1.10	16.	16.	16.	.26	5115.27	1.10
HYDROGRAPH AT	B-24	182.	1.00	34.	34.	34.	.55		
2 COMBINED AT	AP-24	264.	1.07	50.	50.	50.	.81		
ROUTED TO	RR-4	0.	6.00	0.	0.	0.	.81	5000.09	6.00
HYDROGRAPH AT	B-25	6.	2.00	3.	3.	3.	.23		
ROUTED TO	C-26	6.	2.40	2.	2.	2.	.23	5776.01	2.37
HYDROGRAPH AT	B-26	17.	1.13	4.	4.	4.	.12		
3 COMBINED AT	AP-26	18.	1.17	6.	6.	6.	1.17		
ROUTED TO	RR-5	0.	.03	0.	0.	0.	1.17	5767.19	6.00
HYDROGRAPH AT	B-27	24.	.77	3.	3.	3.	.05		
2 COMBINED AT	AP-26	24.	.77	3.	3.	3.	1.21		
ROUTED TO	C-28A	21.	1.13	3.	3.	3.	1.21	5710.05	1.13
ROUTED TO	C-28B	20.	1.43	3.	3.	3.	1.21	5540.07	1.43
HYDROGRAPH AT	B-28	16.	2.13	7.	7.	7.	.83		
3 COMBINED AT	AP-29	136.	1.33	31.	31.	31.	11.72		
ROUTED TO	C-31A	127.	1.70	30.	30.	30.	11.72	5415.49	1.70
ROUTED TO	C-34A	125.	1.87	29.	29.	29.	11.72	5330.74	1.83
ROUTED TO	C-35A	124.	1.97	29.	29.	29.	11.72	5194.45	1.97
HYDROGRAPH AT	B-31	92.	.93	17.	17.	17.	.43		
HYDROGRAPH AT	B-30	151.	.83	23.	23.	23.	.35		
HYDROGRAPH AT	B-32	264.	1.23	61.	61.	61.	1.11		
3 COMBINED AT	AP-33	444.	1.00	101.	101.	101.	1.89		
ROUTED TO	C-34A	441.	1.13	100.	100.	100.	1.89	5331.43	1.13
HYDROGRAPH AT	B-34	147.	1.10	30.	30.	30.	.60		

2 COMBINED AT	AP-34	588.	1.10	130.	130.	130.	2.49		
ROUTED TO	C-35A	587.	1.17	129.	129.	129.	2.49	5195.07	1.17
HYDROGRAPH AT	B-35	76.	.57	7.	7.	7.	.13		
2 COMBINED AT	AP-35	597.	1.13	137.	137.	137.	2.62		
ROUTED TO	RR-E	11.	6.00	0.	0.	0.	2.62	5004.01	6.00
2 COMBINED AT	AP-35	124.	1.97	30.	30.	30.	14.34		
HYDROGRAPH AT	B-40	290.	.93	49.	49.	49.	.61		
HYDROGRAPH AT	B-41	12.	2.77	6.	6.	6.	.61		
2 COMBINED AT	AP-42	291.	.93	55.	55.	55.	1.23		
ROUTED TO	RR-6	16.	3.83	12.	12.	12.	1.23	5755.95	3.83
ROUTED TO	C-43A	16.	4.30	11.	11.	11.	1.23	5730.05	3.97
HYDROGRAPH AT	B-43	12.	1.47	4.	4.	4.	.49		
2 COMBINED AT	AP-43	19.	6.00	15.	15.	15.	1.72		
ROUTED TO	C-44A	19.	6.00	15.	15.	15.	1.72	5635.03	2.03
ROUTED TO	C-44B	19.	6.00	14.	14.	14.	1.72	5464.41	5.93
HYDROGRAPH AT	B-44	19.	1.60	7.	7.	7.	.85		
2 COMBINED AT	AP-44	32.	1.93	21.	21.	21.	2.57		
HYDROGRAPH AT	B-45	10.	1.13	3.	3.	3.	.24		
ROUTED TO	C-46A	10.	1.33	3.	3.	3.	.24	5480.06	1.33
HYDROGRAPH AT	B-46	28.	.77	4.	4.	4.	.12		
3 COMBINED AT	AP-47	42.	1.50	27.	27.	27.	2.92		
ROUTED TO	C-48A	42.	1.67	26.	26.	26.	2.92	5376.29	1.63
ROUTED TO	C-48B	41.	1.83	25.	25.	25.	2.92	5340.67	1.80
HYDROGRAPH AT	B-48	12.	1.53	4.	4.	4.	.44		
2 COMBINED AT	AP-48	53.	1.70	29.	29.	29.	3.36		
HYDROGRAPH AT	B-37	7.	1.70	3.	3.	3.	.26		
ROUTED TO	C-38A	7.	2.00	3.	3.	3.	.26	5490.04	2.00
ROUTED TO	C-38B	7.	2.53	2.	2.	2.	.26	5390.09	2.50
HYDROGRAPH AT	B-38	201.	.97	37.	37.	37.	.69		
2 COMBINED AT	AP-38	201.	.97	39.	39.	39.	.95		
HYDROGRAPH AT	B-36	127.	.93	22.	22.	22.	.35		
2 COMBINED AT	AP-39	327.	.97	61.	61.	61.	1.30		

ROUTED TO	RR-F	1.	6.00	0.	0.	0.	1.30	5004.00	6.00
2 COMBINED AT	AP-49	53.	1.70	29.	29.	29.	4.67		
ROUTED TO	C-50A	53.	1.80	29.	29.	29.	4.67	5182.17	1.77
HYDROGRAPH AT	B-50	34.	.53	3.	3.	3.	.05		
3 COMBINED AT	AP-51	176.	1.93	61.	61.	61.	19.06		
ROUTED TO	C-53A	175.	2.03	60.	60.	60.	19.06	5166.89	2.03
HYDROGRAPH AT	B-53	99.	.57	9.	9.	9.	.16		
HYDROGRAPH AT	B-52	131.	.83	20.	20.	20.	.32		
ROUTED TO	RR-G	5.	6.00	0.	0.	0.	.32	5004.00	5.80
3 COMBINED AT	AP-53	178.	2.03	69.	69.	69.	19.54		
ROUTED TO	C-54A	175.	2.13	68.	68.	68.	19.54	5149.56	2.13
HYDROGRAPH AT	B-54	40.	.67	5.	5.	5.	.09		
2 COMBINED AT	AP-54	176.	2.17	73.	73.	73.	19.63		
ROUTED TO	C-57B	173.	2.27	71.	71.	71.	19.63	5124.92	2.27
HYDROGRAPH AT	B-57	19.	.60	2.	2.	2.	.03		
HYDROGRAPH AT	B-55	390.	.93	67.	67.	67.	1.01		
ROUTED TO	C-56A	385.	1.03	66.	66.	66.	1.01	5140.93	1.03
HYDROGRAPH AT	B-56	166.	.67	20.	20.	20.	.38		
2 COMBINED AT	AP-56	455.	1.00	86.	86.	86.	1.38		
ROUTED TO	RR-H	21.	6.00	1.	1.	1.	1.38	5004.02	6.00
ROUTED TO	C-57A	14.	6.00	0.	0.	0.	1.38	5116.25	6.00
3 COMBINED AT	AP-57	174.	2.27	73.	73.	73.	21.05		
ROUTED TO	C-60A	172.	2.33	72.	72.	72.	21.05	5114.92	2.33
HYDROGRAPH AT	B-58	53.	.60	6.	6.	6.	.10		
HYDROGRAPH AT	B-59	53.	.73	7.	7.	7.	.12		
HYDROGRAPH AT	B-60	10.	.97	2.	2.	2.	.08		
4 COMBINED AT	AP-60	197.	.87	86.	86.	86.	21.34		
ROUTED TO	RR-7	48.	4.90	36.	36.	36.	21.34	5104.75	4.77

MARIPOSA BASIN MASTER PLAN
2 YEAR - 6 HOUR RAINFALL
DEVELOPED WITH IMPROVEMENTS

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD 6-HOUR	24-HOUR	72-HOUR	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
HYDROGRAPH AT	B-1	119.	1.03	24.	24.	24.	.58		
HYDROGRAPH AT	B-2	58.	.77	8.	8.	8.	.19		
2 COMBINED AT	AP-3	158.	.93	32.	32.	32.	.78		
ROUTED TO	RR-A	0.	.03	0.	0.	0.	.78	5002.91	6.00
ROUTED TO	C-6A	0.	.03	0.	0.	0.	.78	5850.00	.00
ROUTED TO	C-6B	0.	.03	0.	0.	0.	.78	5816.00	.00
HYDROGRAPH AT	B-4	248.	.90	41.	41.	41.	1.01		
ROUTED TO	RR-1	0.	.03	0.	0.	0.	1.01	5850.99	6.00
ROUTED TO	C-6F	0.	.03	0.	0.	0.	1.01	5852.00	.00
HYDROGRAPH AT	B-5	88.	.83	14.	14.	14.	.60		
ROUTED TO	RR-B	0.	.03	0.	0.	0.	.60	5003.06	6.00
ROUTED TO	C-6C	0.	.03	0.	0.	0.	.60	5860.00	.00
ROUTED TO	C-6D	0.	.03	0.	0.	0.	.60	5842.00	.00
ROUTED TO	C-6E	0.	.03	0.	0.	0.	.60	5816.00	.00
HYDROGRAPH AT	B-6	287.	1.20	65.	65.	65.	1.76		
4 COMBINED AT	AP-6	287.	1.20	65.	65.	65.	4.15		
ROUTED TO	RR-2	0.	.03	0.	0.	0.	4.15	5779.14	6.00
ROUTED TO	C-7A	0.	.03	0.	0.	0.	4.15	5760.00	.00
HYDROGRAPH AT	B-7	30.	1.30	7.	7.	7.	.18		
HYDROGRAPH AT	B-8	23.	1.83	8.	8.	8.	.75		
ROUTED TO	C-9A	21.	2.57	8.	8.	8.	.75	5852.09	2.53
ROUTED TO	C-9B	20.	2.93	7.	7.	7.	.75	5836.11	2.87
ROUTED TO	C-9C	20.	3.23	7.	7.	7.	.75	5776.06	3.20
HYDROGRAPH AT	B-9	130.	1.13	27.	27.	27.	.57		
3 COMBINED AT	AP-10	158.	1.13	42.	42.	42.	1.49		
ROUTED TO	RR-C	0.	.03	0.	0.	0.	1.49	5003.07	6.00

2 COMBINED AT	AP-10	0.	.03	0.	0.	0.	5.65		
ROUTED TO	C-11A	0.	.03	0.	0.	0.	5.65	5734.00	.00
HYDROGRAPH AT	B-11	64.	.73	8.	8.	8.	.19		
2 COMBINED AT	AP-11	64.	.73	8.	8.	8.	5.84		
ROUTED TO	C-12A	53.	.93	8.	8.	8.	5.84	5706.29	.93
HYDROGRAPH AT	B-12	23.	.63	3.	3.	3.	.06		
2 COMBINED AT	AP-12	63.	.90	11.	11.	11.	5.89		
HYDROGRAPH AT	B-14	194.	.93	32.	32.	32.	.40		
ROUTED TO	C-15	193.	.97	32.	32.	32.	.40	5115.95	.97
HYDROGRAPH AT	B-15	146.	1.00	26.	26.	26.	.33		
2 COMBINED AT	AP-15	338.	1.00	58.	58.	58.	.72		
ROUTED TO	C-16	338.	1.00	58.	58.	58.	.72	5114.01	.93
HYDROGRAPH AT	B-16	435.	1.03	81.	81.	81.	1.01		
2 COMBINED AT	AP-16	772.	1.00	139.	139.	139.	1.73		
ROUTED TO	C-17	755.	1.13	139.	139.	139.	1.73	5791.34	1.13
ROUTED TO	C-17A	741.	1.23	137.	137.	137.	1.73	5791.65	1.23
HYDROGRAPH AT	B-17	224.	.93	38.	38.	38.	.53		
2 COMBINED AT	AP-17	893.	1.20	175.	175.	175.	2.26		
ROUTED TO	C-18A	889.	1.23	175.	175.	175.	2.26	5759.53	1.23
ROUTED TO	C-18B	880.	1.30	174.	174.	174.	2.26	5737.00	1.30
HYDROGRAPH AT	B-18	125.	.70	15.	15.	15.	.20		
2 COMBINED AT	AP-18	903.	1.30	189.	189.	189.	2.47		
HYDROGRAPH AT	B-13	122.	.73	16.	16.	16.	.20		
2 COMBINED AT	AP-18	934.	1.30	204.	204.	204.	2.67		
ROUTED TO	RR-3	0.	.03	0.	0.	0.	2.67	4999.20	6.00
ROUTED TO	C-19A	0.	.03	0.	0.	0.	2.67	5712.00	.00
HYDROGRAPH AT	B-19	44.	.63	5.	5.	5.	.12		
2 COMBINED AT	AP-19	44.	.63	5.	5.	5.	2.79		
2 COMBINED AT	AP-20	93.	.70	16.	16.	16.	8.68		
ROUTED TO	C-21A	87.	1.00	16.	16.	16.	8.68	5656.67	1.00
ROUTED TO	C-22A	84.	1.17	15.	15.	15.	8.68	5600.38	1.17
ROUTED TO	C-22B	83.	1.30	15.	15.	15.	8.68	5500.35	1.30

HYDROGRAPH AT	B-21	93.	.83	15.	15.	15.	.42		
ROUTED TO	C-22A	90.	.97	15.	15.	15.	.42	5600.40	.97
ROUTED TO	C-22B	87.	1.13	15.	15.	15.	.42	5500.37	1.10
HYDROGRAPH AT	B-22	138.	.73	19.	19.	19.	.58		
2 COMBINED AT	AP-22	169.	.80	33.	33.	33.	1.00		
ROUTED TO	RR-D	0.	.03	0.	0.	0.	1.00	5003.01	6.00
2 COMBINED AT	AP-22	83.	1.30	15.	15.	15.	9.68		
HYDROGRAPH AT	B-23	68.	.97	12.	12.	12.	.26		
ROUTED TO	C-24A	67.	1.13	12.	12.	12.	.26	5115.09	1.10
HYDROGRAPH AT	B-24	141.	1.00	26.	26.	26.	.55		
2 COMBINED AT	AP-24	205.	1.03	39.	39.	39.	.81		
ROUTED TO	RR-4	0.	.03	0.	0.	0.	.81	4999.20	6.00
HYDROGRAPH AT	B-25	3.	2.00	1.	1.	1.	.23		
ROUTED TO	C-26	3.	2.40	1.	1.	1.	.23	5776.01	2.30
HYDROGRAPH AT	B-26	10.	1.17	2.	2.	2.	.12		
3 COMBINED AT	AP-26	10.	1.20	4.	4.	4.	1.17		
ROUTED TO	RR-5	0.	.03	0.	0.	0.	1.17	5766.66	6.00
HYDROGRAPH AT	B-27	19.	.77	3.	3.	3.	.05		
2 COMBINED AT	AP-26	19.	.77	3.	3.	3.	1.21		
ROUTED TO	C-28A	17.	1.13	3.	3.	3.	1.21	5710.04	1.13
ROUTED TO	C-28B	15.	1.43	3.	3.	3.	1.21	5540.05	1.40
HYDROGRAPH AT	B-28	7.	2.07	3.	3.	3.	.83		
3 COMBINED AT	AP-29	101.	1.33	21.	21.	21.	11.72		
ROUTED TO	C-31A	94.	1.70	21.	21.	21.	11.72	5415.36	1.70
ROUTED TO	C-34A	93.	1.83	21.	21.	21.	11.72	5330.64	1.83
ROUTED TO	C-35A	92.	1.97	21.	21.	21.	11.72	5194.33	1.93
HYDROGRAPH AT	B-31	69.	.93	12.	12.	12.	.43		
HYDROGRAPH AT	B-30	112.	.83	17.	17.	17.	.35		
HYDROGRAPH AT	B-32	198.	1.20	46.	46.	46.	1.11		
3 COMBINED AT	AP-33	333.	1.00	75.	75.	75.	1.89		
ROUTED TO	C-34A	331.	1.10	75.	75.	75.	1.89	5331.24	1.10
HYDROGRAPH AT	B-34	110.	1.07	23.	23.	23.	.60		

2 COMBINED AT	AP-34	440.	1.10	97.	97.	97.	2.49		
ROUTED TO	C-35A	439.	1.17	97.	97.	97.	2.49	5194.89	1.17
HYDROGRAPH AT	B-35	60.	.57	5.	5.	5.	.13		
2 COMBINED AT	AP-35	446.	1.13	102.	102.	102.	2.62		
ROUTED TO	RR-E	0.	.03	0.	0.	0.	2.62	5003.03	6.00
2 COMBINED AT	AP-35	92.	1.97	21.	21.	21.	14.34		
HYDROGRAPH AT	B-40	227.	.93	38.	38.	38.	.61		
HYDROGRAPH AT	B-41	6.	2.77	3.	3.	3.	.61		
2 COMBINED AT	AP-42	228.	.93	41.	41.	41.	1.23		
ROUTED TO	RR-6	8.	5.20	5.	5.	5.	1.23	5755.86	5.20
ROUTED TO	C-43A	8.	5.63	4.	4.	4.	1.23	5730.02	5.50
HYDROGRAPH AT	B-43	5.	1.33	2.	2.	2.	.49		
2 COMBINED AT	AP-43	9.	6.00	6.	6.	6.	1.72		
ROUTED TO	C-44A	9.	6.00	6.	6.	6.	1.72	5635.01	5.37
ROUTED TO	C-44B	9.	6.00	6.	6.	6.	1.72	5464.21	5.93
HYDROGRAPH AT	B-44	8.	1.43	3.	3.	3.	.85		
2 COMBINED AT	AP-44	13.	1.57	9.	9.	9.	2.57		
HYDROGRAPH AT	B-45	4.	1.10	1.	1.	1.	.24		
ROUTED TO	C-46A	4.	1.30	1.	1.	1.	.24	5480.02	1.27
HYDROGRAPH AT	B-46	20.	.73	3.	3.	3.	.12		
3 COMBINED AT	AP-47	25.	.80	13.	13.	13.	2.92		
ROUTED TO	C-48A	24.	1.03	13.	13.	13.	2.92	5376.17	1.03
ROUTED TO	C-48B	23.	1.23	12.	12.	12.	2.92	5340.49	1.23
HYDROGRAPH AT	B-48	10.	1.50	3.	3.	3.	.44		
2 COMBINED AT	AP-48	33.	1.40	15.	15.	15.	3.36		
HYDROGRAPH AT	B-37	3.	1.67	1.	1.	1.	.26		
ROUTED TO	C-38A	3.	2.00	1.	1.	1.	.26	5490.02	1.93
ROUTED TO	C-38B	3.	2.50	1.	1.	1.	.26	5390.04	2.43
HYDROGRAPH AT	B-38	150.	.97	28.	28.	28.	.69		
2 COMBINED AT	AP-38	150.	.97	29.	29.	29.	.95		
HYDROGRAPH AT	B-36	96.	.93	17.	17.	17.	.35		
2 COMBINED AT	AP-39	245.	.93	45.	45.	45.	1.30		

ROUTED TO	RR-F	0.	.03	0.	0.	0.	1.30	5003.00	6.00
2 COMBINED AT	AP-49	33.	1.40	15.	15.	15.	4.67		
ROUTED TO	C-50A	33.	1.47	15.	15.	15.	4.67	5182.10	1.40
HYDROGRAPH AT	B-50	28.	.53	2.	2.	2.	.05		
3 COMBINED AT	AP-51	120.	1.93	38.	38.	38.	19.06		
ROUTED TO	C-53A	119.	2.03	37.	37.	37.	19.06	5166.70	2.03
HYDROGRAPH AT	B-53	75.	.57	7.	7.	7.	.16		
HYDROGRAPH AT	B-52	99.	.83	15.	15.	15.	.32		
ROUTED TO	RR-G	0.	.03	0.	0.	0.	.32	5003.05	6.00
3 COMBINED AT	AP-53	120.	2.03	44.	44.	44.	19.54		
ROUTED TO	C-54A	119.	2.17	43.	43.	43.	19.54	5149.27	2.17
HYDROGRAPH AT	B-54	32.	.67	4.	4.	4.	.09		
2 COMBINED AT	AP-54	119.	2.17	46.	46.	46.	19.63		
ROUTED TO	C-57B	117.	2.27	46.	46.	46.	19.63	5124.71	2.27
HYDROGRAPH AT	B-57	14.	.60	1.	1.	1.	.03		
HYDROGRAPH AT	B-55	294.	.93	51.	51.	51.	1.01		
ROUTED TO	C-56A	288.	1.07	50.	50.	50.	1.01	5140.79	1.07
HYDROGRAPH AT	B-56	131.	.67	15.	15.	15.	.38		
2 COMBINED AT	AP-56	336.	1.00	66.	66.	66.	1.38		
ROUTED TO	RR-H	0.	.03	0.	0.	0.	1.38	5003.04	6.00
ROUTED TO	C-57A	0.	.03	0.	0.	0.	1.38	5116.00	.00
3 COMBINED AT	AP-57	117.	2.27	47.	47.	47.	21.05		
ROUTED TO	C-60A	116.	2.37	47.	47.	47.	21.05	5114.71	2.33
HYDROGRAPH AT	B-58	41.	.60	4.	4.	4.	.10		
HYDROGRAPH AT	B-59	41.	.70	5.	5.	5.	.12		
HYDROGRAPH AT	B-60	6.	.97	1.	1.	1.	.08		
4 COMBINED AT	AP-60	137.	.90	57.	57.	57.	21.34		
ROUTED TO	RR-7	36.	4.03	27.	27.	27.	21.34	5104.47	3.97

SCHEMATIC DIAGRAM OF STREAM NETWORK

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HYDROLOGY SECTION

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24        B-1
            .
            .
33          .         B-2
            .           .
            .           .
38      AP-3............
           V
           V
41      RR-A
           V
           V
48      C-6A
           V
           V
54      C-6B
            .
            .
60          .         B-4
            .           V
            .           V
65          .       RR-1
            .           V
            .           V
75          .       C-6F
            .           .
            .           .
81          .           .        B-5
            .           .          V
            .           .          V
86          .           .      RR-B
            .           .          V
            .           .          V
93          .           .      C-6C
            .           .          V
            .           .          V
99          .           .      C-6D
            .           .          V
            .           .          V
105         .           .      C-6E
            .           .          .
            .           .          .
111         .           .          .        B-6
            .           .          .          .
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116     AP-6.................................
           V
           V
119     RR-2
           V
           V
129     C-7A
            .
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135         .       B-7
            .           .
            .           .
140         .           .        B-8
            .           .          V
            .           .          V
145         .           .      C-9A
            .           .          V
            .           .          V
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151          .          .       C-9B
             .          .          V
             .          .          V
157          .          .       C-9C
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163          .          .          .        B-9
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168          .      AP-10.......................
             .          V
             .          V
171          .       RR-C
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178     AP-10............
            V
            V
181     C-11A
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187         .       B-11
            .          .
            .          .
192     AP-11............
            V
            V
195     C-12A
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201         .       B-12
            .          .
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206     AP-12............
            .
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209         .       B-14
            .          V
            .          V
214         .       C-15
            .          .
            .          .
220         .          .       B-15
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            .          .          .
225         .      AP-15............
            .          V
            .          V
228         .       C-16
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            .          .
234         .          .       B-16
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            .          .          .
239         .      AP-16............
            .          V
            .          V
242         .       C-17
            .          V
            .          V
248         .      C-17A
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254         .          .       B-17
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259          .      AP-17............
             .          V
             .          V
262          .      C-18A
             .          V
             .          V
268          .      C-18B
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             .          .
274          .          .       B-18
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             .          .          .
279          .      AP-18............
             .          .
             .          .
282          .          .       B-13
             .          .          .
             .          .          .
287          .      AP-18............
             .          V
             .          V
290          .       RR-3
             .          V
             .          V
301          .      C-19A
             .          .
             .          .
307          .          .       B-19
             .          .          .
             .          .          .
312          .      AP-19............
             .          .
             .          .
315       AP-20............
             V
             V
318       C-21A
             V
             V
324       C-22A
             V
             V
330       C-22B
             .
             .
336          .       B-21
             .          V
             .          V
341          .      C-22A
             .          V
             .          V
347          .      C-22B
             .          .
             .          .
353          .          .       B-22
             .          .          .
             .          .          .
358          .      AP-22............
             .          V
             .          V
361          .       RR-D
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368       AP-22............
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371          .      B-23
             .        V
             .        V
376          .     C-24A
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382          .        .       B-24
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387          .     AP-24............
             .        V
             .        V
391          .      RR-4
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402          .        .       B-25
             .        .         V
             .        .         V
407          .        .       C-26
             .        .         .
             .        .         .
413          .        .         .       B-26
             .        .         .         .
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418          .     AP-26......................
             .        V
             .        V
421          .      RR-5
             .        .
             .        .
431          .        .       B-27
             .        .         .
             .        .         .
436          .     AP-26............
             .        V
             .        V
439          .     C-28A
             .        V
             .        V
445          .     C-28B
             .        .
             .        .
451          .        .       B-28
             .        .         .
             .        .         .
456          AP-29......................
                V
                V
459          C-31A
                V
                V
465          C-34A
                V
                V
471          C-35A
                .
                .
477             .     B-31
                .        .
                .        .
482             .        .       B-30
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487             .        .         .       B-32
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492          .      AP-33.......................
             .          V
             .          V
495          .      C-34A
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             .          .
501          .          .        B-34
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506          .      AP-34............
             .          V
             .          V
509          .      C-35A
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             .          .
515          .          .        B-35
             .          .          .
             .          .          .
520          .      AP-35............
             .          V
             .          V
523          .       RR-E
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530       AP-35............
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533          .       B-40
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538          .          .        B-41
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             .          .          .
543          .      AP-42............
             .          V
             .          V
546          .       RR-6
             .          V
             .          V
556          .      C-43A
             .          .
             .          .
562          .          .        B-43
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             .          .          .
567          .      AP-43............
             .          V
             .          V
570          .      C-44A
             .          V
             .          V
576          .      C-44B
             .          .
             .          .
582          .          .        B-44
             .          .          .
             .          .          .
587          .      AP-44............
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             .          .
590          .          .        B-45
             .          .          V
             .          .          V
595          .          .       C-46A
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601          .          .          .       B-46
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606          .      AP-47.......................
             .          V
             .          V
609          .      C-48A
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             .          V
615          .      C-48B
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             .          .
621          .          .       B-48
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626          .      AP-48............
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             .          .
629          .          .       B-37
             .          .          V
             .          .          V
634          .          .       C-38A
             .          .          V
             .          .          V
640          .          .       C-38B
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646          .          .          .       B-38
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651          .          .       AP-38............
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654          .          .          .       B-36
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659          .          .       AP-39............
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662          .          .        RR-F
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669          .      AP-49............
             .          V
             .          V
672          .      C-50A
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678          .          .       B-50
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683      AP-51.......................
             V
             V
686      C-53A
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692          .       B-53
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697          .          .       B-52
             .          .          V
             .          .          V
702          .          .       RR-G
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709     AP-53.......................
            V
            V
712     C-54A
            .
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718         .       B-54
            .          .
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723     AP-54............
            V
            V
726     C-57B
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732         .       B-57
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            .          .
737         .          .       B-55
            .          .          V
            .          .          V
742         .          .      C-56A
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748         .          .          .       B-56
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753         .          .      AP-56............
            .          .          V
            .          .          V
756         .          .       RR-H
            .          .          V
            .          .          V
763         .          .      C-57A
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769     AP-57.......................
            V
            V
772     C-60A
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778         .       B-58
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783         .          .       B-59
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788         .          .          .       B-60
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793     AP-60.......................................
            V
            V
796      RR-7
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RUNOFF SUMMARY
ANALYSIS POINT 60
AT THE MOUTH OF MARIPOSA BASIN

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HYDROLOGY SECTION

EVENT	PEAK FLOW (cfs)	TIME OF PEAK (hrs)	VOLUME (ac ft)	BASIN AREA (sq mi)
(EXISTING)				
100 YEAR	1182. ✓	2.13	178	21.34
50 YEAR	995. ✓	.80	147	21.34
25 YEAR	796.	.80	108	21.34
10 YEAR	559.	.80	62	21.34
5 YEAR	404.	.83	35	21.34
2 YEAR	298.	.83	19	21.34
(DEVELOPED)				
100 YEAR	4506.	1.23	479	21.34
50 YEAR	3896.	1.27	458	21.34
25 YEAR	3134.	1.27	405	21.34
10 YEAR	2193.	1.27	280	21.34
5 YEAR	1580.	1.30	201	21.34
2 YEAR	1161.	1.27	148	21.34
(DEVELOPED WITH WATERSHED MANAGEMENT)				
100 YEAR	2551.	1.73	375	21.34
50 YEAR	1988.	1.73	295	21.34
25 YEAR	1300.	1.93	204	21.34
10 YEAR	388.	2.17	90	21.34
5 YEAR	197.	.87	25	21.34
2 YEAR	137.	.90	16	21.34

Easterling & Associates, In

MARIPOSA DRAINAGE AREA

CONSERVATION AND STABILIZATION PLAN

FOR PUBLIC OPEN SPACE LANDS

AND

PRIVATELY HELD LANDS PRIOR TO DEVELOPMENT

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PLANNING
HYDROLOGY

MARIPOSA DRAINAGE AREA

CONSERVATION AND STABILIZATION PLAN

FOR PUBLIC OPEN SPACE LANDS

AND PRIVATELY HELD LANDS PRIOR TO DEVELOPMENT

PREPARED FOR:

CITY OF ALBUQUERQUE
POST OFFICE BOX 1293
ALBUQUERQUE, NEW MEXICO 87103

PREPARED BY:

RICHARD D. FARMER
EASTERLING & ASSOCIATES, INC.
5643 PARADISE BOULEVARD, NW
ALBUQUERQUE, NEW MEXICO 87114

UNDER CONTRACT WITH:

A. WAYNE SMITH & ASSOCIATES
610 GOLD, SW - SUITE 216
ALBUQUERQUE, NEW MEXICO 87102

DECEMBER 1988

MARIPOSA DRAINAGE AREA

CONSERVATION AND STABILIZATION PLAN

FOR PUBLIC OPEN SPACE LANDS

AND PRIVATELY HELD LANDS PRIOR TO DEVELOPMENT

INTRODUCTION

The feasibility of constructing a recreational complex within the Mariposa Flood Control Basin has been demonstrated that feasibility is based upon two very important assumptions:

1. Adoption of a watershed-wide drainage management policy governing development and

2. Perpetuation of the existing condition of the publicly owned lands.

This report addresses measures necessary to improve and perpetuate the excellent hydrologic condition which exists in the watershed.

The consequences of not maintaining the status quo are severe. Several millions of dollars of flood control improvements in the Mariposa and Boca Negra systems will be required to mitigate changes in the watershed which increase runoff and sediment production.

GENERAL

The vegetative community within the Mariposa Basin drainage area is in excellent condition and exhibits very little erosion. Practically all existing erosion is caused by roads traversing the drainage area. Damage by off-road vehicles contributes to the remainder of the erosion within the drainage area.

Costs are based upon the use of City forces. Alternatives to the use of City forces are contracting out or the use of "public service" convicts.

This plan will address items of primary, secondary, and tertiary importance in the maintaining and improving the ecological balance and aesthetics within the drainage area.

A. Primary Recommendations:

1. Water barriers (also known as "Thank-You-Mams") are very effective in erosion control on rural farm and ranch dirt roads. Since roads within the drainage area are the main source of erosion, it is highly recommended that water barriers be constructed in accordance with the specifications in Figure No. 1. The locations are shown on Plan Map No. 1.

Structure No.	Amount	Est. Cost Materials and Labor	Location of Water Barriers Shown on Plan Map No. 1 as PWD
PWD-1	33	$15.00 EA $495.00	At west end on drainage area, a series of barriers (400' apart) in road that runs from northwest corner of Sec. 29 and ends near the center of Sec. 34.
PWD-2	21	$315.00	A road near the southwest corner of Sec. 26 which runs northeast toward the center of Sec. 24. Series of water barriers at 400' intervals.

Structure No.	Amount	Est. Cost Materials and Labor	Location of Water Barriers Shown on Plan Map No. 1 as PWD
PWD-3	56	$840.00	A series of water barriers 300' apart on road at top of Sec. 23, 24, 19, and one-fourth mile into Sec. 20.
PWD-4	35	$530.00	Series of water barriers on road starting in northeast corner of Sec. 24 and south to the southeast corner of Sec. 25. Structures should be 300' apart.
PWD-5	23	$345.00	Series of water barriers (300' apart) on road from north center of Sec. 19, southwest to northwest corner of Sec. 30.
PWD-6	18	$270.00	Series on road (300' apart) in west half of west half of Sec. 20.
PWD-7	46	$690.00	Series on road on north part of Sec. 28 and 29. Barriers should be 200' apart.

2. Loose rock dams are very effective for controlling erosion in small, severely eroded gullies or roads. See Figure No. 2 for specifications. Loose rock dams require no other costs except labor and some vehicle costs for loading/unloading rocks.

Structure No.	Amount	Est. Cost Materials and Labor	Location of Loose Rock Dam Series
PRD-1	45	$12.00 EA $540.00	A series of loose rock dams (200' apart) in old road in the southwest corner of drainage area in Sec. 29, 32, and 33.

Structure No.	Amount	Est. Cost Materials and Labor	Location of Water Barriers Shown on Plan Map No. 1 as PWD
PRD-2	34	$408.00	A series of rock dams in gully in southeast corner of Sec. 19 (100' apart) and into southwest corner of Sec. 20.
PRD-3	34	$408.00	A series of rock dams in gully near the northeast corner of Sec. 19 and into the west central part of Sec. 20 (100' apart).
PRD-3 PRD-4 PRD-5	34 30 20	$408.00 $360.00 $240.00	A series of loose rock dams in three separate gullies which run from the east part of Sec. 30 to the west part of Sec. 29 (200' apart).
PRD-6 PRD-7	8 8	$96.00 $96.00	A series of loose rock dams in two separate gullies in the southeast one-fourth of Sec. 21 northwest of water tank. Dams should be 200' apart.

3. Net wire diversions are simple, cheap, and very effective in controlling erosion in small gullies. They can be substituted for loose rock dams if the source of rock material is too distant or is of short supply. The wire and post can be used, damage material and could possibly be obtained free of cost from road departments. The tops of the metal posts should be painted red as a safety measure for hikers. See Figure No. 3 for specifications.

Structure No.	Amount	Est. Cost Materials and Labor	Location of Net Wire Diversions on Plan Map No. 1
PNW-1	28	$10.00 EA $280.00	A series in a gully on the west end of drainage area on the west side of Sec. 16 built 50' apart.

Structure No.	Amount	Est. Cost Materials and Labor	Location of Water Barriers Shown on Plan Map No. 1 as PWD
PNW-2	28	$280.00	A series in a gully in the southwest corner of Sec. 24 (50' spacing).

4. The construction of dikes is an effective way to divert or retain water within a drainage area. The purpose of the dikes recommended in this plan is for retention of runoff and control of erosion.

Structure No.	Amount	Est. Cost Materials and Labor	Location of Dikes on Plan Map No. 1
PD-1 & PD-2	1 1	$300.00 $300.00	Dikes (2) to be built on west side of drainage area in the southwest corner of Sec. 17.
PD-3	1	$300.00	One dike to be built on west side of drainage area near the east central part of Sec. 20.
PD-4	1	$300.00	One dike to be built in Sec. 30 (northwest one-fourth) where adequate breaks over drainage near volcanos.

5. Dams are an effective means of retaining flood flows and preventing flood waters and sediment from reaching lower parts of a drainage area.

Structure No.	Amount	Est. Cost Materials and Labor	Location of Dams on Plan Map No. 1
P-Dam-1	1	$1.50/CY 2,500 CY $3,750.00	Dam to be built in drainage in southwest corner of Sec. 16 on east side of drainage.
P-Dam-2	1	$3,750.00	Dams to be built on east side of drainage area in northwest one-fourth of Section 28.

6. Special treatment units are areas requiring more than one conservation measure to control erosion. They are normally isolated, when feasible.

Structure No.	Amount	Est. Cost Materials and Labor	Location of Special Treatment Units on Plan Map No. 1
STU-1	40 AC		Area located in northeast part of drainage area in southeast one-fourth of Sec. 17. Area is severely damaged by off-road vehicles.
	600 LF	$3.00 LF $1,800.00	It should be fenced off to be isolated and protected.
	40 AC	$25.00/AC $1,000.00	The damaged area should be re-seeded with native adapted species of vegetation.
STU-2			Area is located in Sec. 22 above petroglyph park. Erosion occurs on both sides of paved road and on lower side of parking lot at the top.
		$7500.00	Collect drainage from parking lot and place in CMP to bottom of hill.

Structure No.	Amount	Est. Cost Materials and Labor	Location of Special Treatment Units on Plan Map No. 1
	1	$7500.00	Route flood flows from south side of road to north side, then drop into CMP to bottom of gully.

7. There are numerous roads (new, old, and abandoned) which traverse the entire drainage area. These roads are the main cause and contributing factors for drainage and erosion within the area. It is highly recommended that an evaluation be made to ascertain which roads are really needed and abandon all others. All roads, whenever feasible, should be abandoned which traverse areas east to west. Areas of four to six percent slope or more should be excluded from further use (see Plan Map No. 1 for slopes).

8. The total estimated cost of Primary Recommendations is **$33,101.00.**

B. **Secondary Recommendations:**

1. There are several conservation measures which are needed but are not as serious as those listed under Primary Recommendations.

Structure No.	Amount	Est. Cost Materials and Labor	Location
SWB-1	24	$15.00/EA $3,60.00	A series of water barriers (700' apart) should be built in the road along the top of the drain-age area on the west side.

Structure No.	Amount	Est. Cost Materials and Labor	Location
SWB-2	18	$270.00	A series of water barriers on a road near the west end of the drainage on the north side of Sec. 28 and 29 at 500' intervals.
TOTAL		**$630.00**	

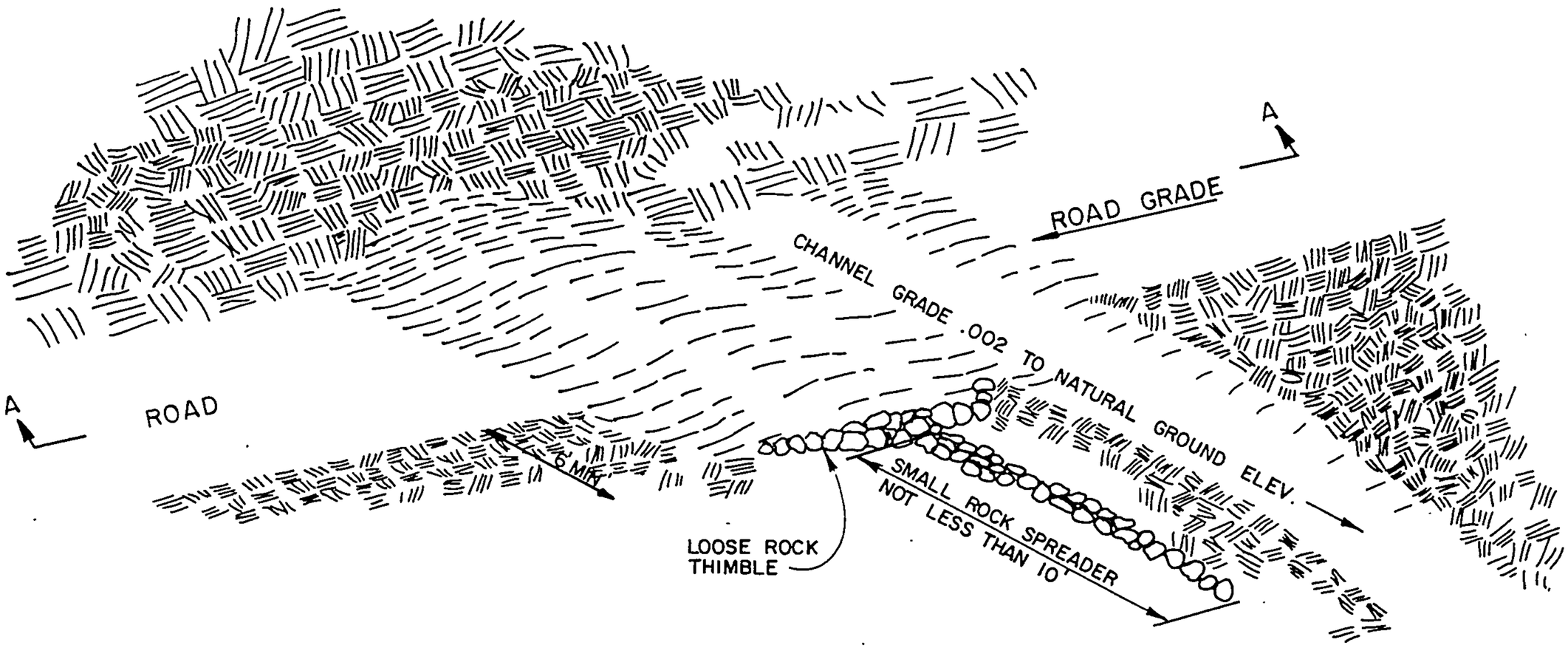
2) As stated previously, the vegetative community is in excellent condition. However, it should be pointed out that no use is not proper use of vegetative cover. Proper grazing creates higher vigor in the plants' growth and reduces fire danger by reducing the amount of vegetation left over as dry litter. Grazing action also aides in the planting of plant seeds. A source of income could be realized in the consideration of leasing out grazing permits. The open space area contains approximately 10,400 acres, and a full-grown cow requires 65 acres for year-long grazing on a range similar to the drainage area. Thus, it is reasonable to assume that the drainage area would support 160 head of cattle for one year. Grazing permits are approximately $8.00 per month, or $96.00 per year, per head of cattle. Thus, the grazing permits could conceivably be worth about $15,350.00 per year. The Soil Conservation Service could help to insure that proper grazing was followed.

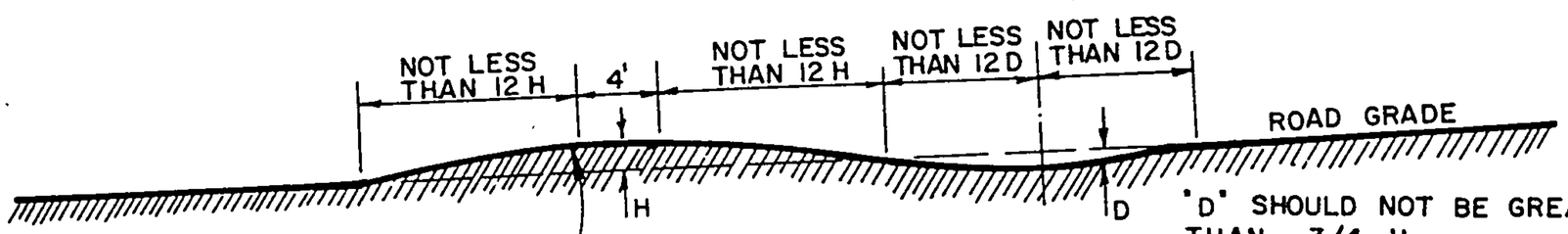
3) There is a small population of antelope on the western part of the drainage area. If it is desirable to maintain and improve the antelope population, the existing fences should be altered. The existing fences have five strands of barbed wire, and the bottom wire prevents the free movement of the antelope. Therefore, some thought may be given to removing the fifth bottom

strand of barbed wire in sections. Also, the fourth strand should be considered for replacement with barbless wire to prevent injury to the antelope, at least in some sections.

SUMMARY

The implementation of the recommendations contained herein are not, in and of themselves, critical to the success of the joint use of the Mariposa Basin. They are only tools to be used in the maintenance of the excellent hydrologic conditions which exist in the watershed, which is critical to the joint use concept. It cannot be stated too strongly that only through the proper stewardship of the publicly owned lands (which is its own reward) can the existing basin and channel system continue to meet flood control requirements as well as provide an opportunity for the joint use of the facilities.





"D" SHOULD NOT BE GREATER THAN 3/4 H.

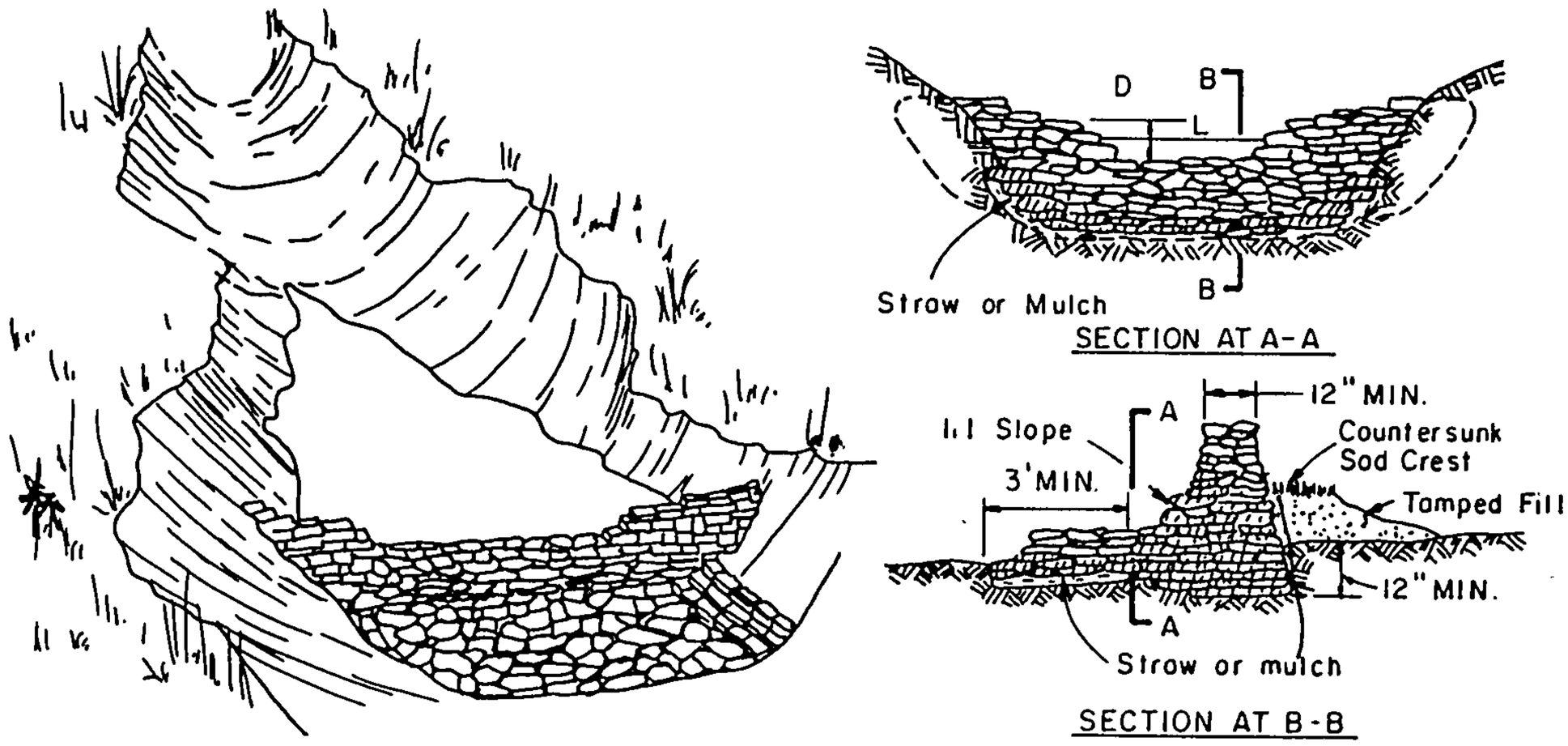
ALLOWANCES FOR SHRINKAGE AND COMPACTION SHOULD BE MADE SO THAT FINISHED GRADES WILL BE AS SHOWN.

NOTE: IF NECESSARY THANK U MAM AND BORROW PIT MAY BE EXTENDED ON BOTH SIDES OF THE ROAD TO PROVIDE DRAINAGE IN BOTH DIRECTIONS. IF THIS IS DONE CONSTRUCT ROCK THIMBLE AND SPREADER ON EACH END OF THANK U MAM AND GRADE BORROW PIT .002 IN NATURAL DIRECTION OF FLOW FROM CENTER LINE OF ROAD AS SHOWN IN ABOVE SKETCH.

STRUCTURE TO BE STAKED OUT FOR CONSTRUCTION.

THANK U MAM FOR TRAVELED ROADS

FIGURE # 1



A LOOSE ROCK DAM

APPROXIMATE DISCHARGE CAPACITY OF RECTANGULAR WEIR. NOTCHES IN SMALL TEMPORARY AND PERMANENT CHECK DAMS.

Depth of notch (feet)	Discharge capacity in cubic feet per second of spillways having a Length of --						
	4 feet	6 feet	8 feet	10 feet	12 feet	14 feet	16 feet
0.5	4.5	6.8	9.1	11.3	13.6	15.8	18.1
1	12.8	19.2	25.6	32.0	38.4	44.8	51.2
1.5	23.5	35.2	47.0	58.8			
2	36.2	54.3					

The depth of notch is indicated by d in the drawings.
The length of notch is indicated by l in the drawings.

FIGURE 2

NET WIRE DIVERSION

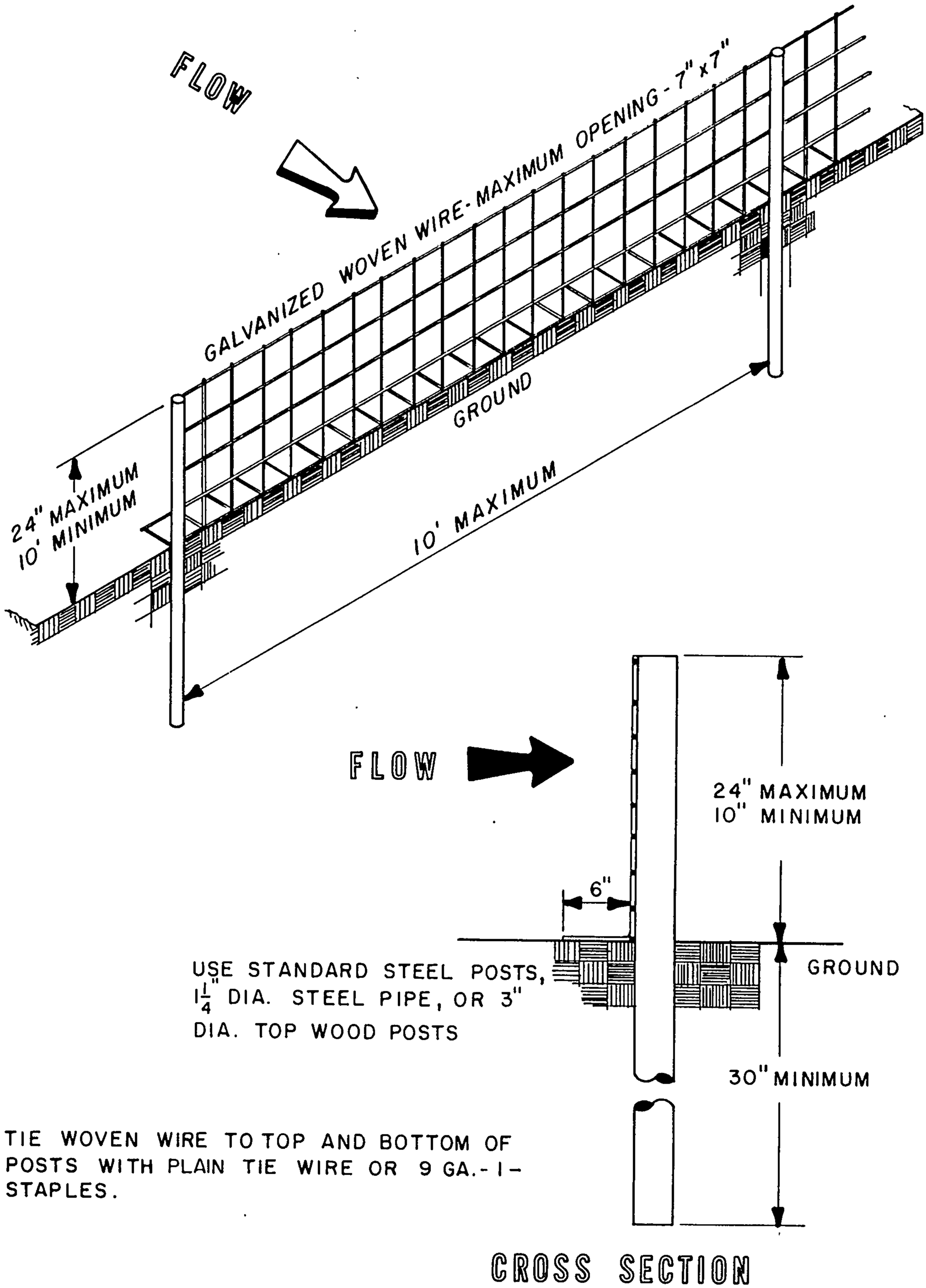


FIGURE 3

Easterling & Associates, Inc

MARIPOSA DRAINAGE AREA

CONSERVATION AND STABILIZATION PLAN

FOR PUBLIC, OPEN SPACE LANDS

AND

PRIVATELY HELD LANDS PRIOR TO DEVELOPMENT

RECEIVED
MAY 1 5 1989
HYDROLOGY SECTION

MARIPOSA DRAINAGE AREA

CONSERVATION AND STABILIZATION PLAN

FOR PUBLIC, OPEN SPACE LANDS

AND PRIVATELY HELD LANDS PRIOR TO DEVELOPMENT

PREPARED FOR:

CITY OF ALBUQUERQUE
POST OFFICE BOX 1293
ALBUQUERQUE, NEW MEXICO 87103

PREPARED BY:

RICHARD D. FARMER
EASTERLING & ASSOCIATES, INC.
5643 PARADISE BOULEVARD, NW
ALBUQUERQUE, NEW MEXICO 87114

UNDER CONTRACT WITH:

A. WAYNE SMITH & ASSOCIATES
610 GOLD, SW - SUITE 216
ALBUQUERQUE, NEW MEXICO 87102

APRIL 1989

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Figure 2 - A Loose Rock Dam

Figure 3 - Net Wire Diversion

Conservation, Stabilization & Ownership Map

MARIPOSA DRAINAGE AREA
CONSERVATION AND STABILIZATION PLAN
FOR PUBLIC, OPEN SPACE LANDS
AND PRIVATELY HELD LANDS PRIOR TO DEVELOPMENT

INTRODUCTION

The feasibility of constructing a recreational complex within the Mariposa Flood Control Basin has been demonstrated. Feasibility is based upon two very important assumptions:

1. Adoption of a watershed-wide drainage management policy governing development and

2. Perpetuation of the existing condition of the publicly owned lands.

This report addresses measures necessary to improve and perpetuate the excellent hydrologic condition which exists in the watershed.

The consequences of not maintaining the status quo are severe. Several millions of dollars of flood control improvements in the Mariposa and Boca Negra systems will be required to mitigate changes in the watershed which increase runoff and sediment production.

GENERAL

The vegetative community within the Mariposa Basin drainage area is in excellent condition and exhibits very little erosion. Practically all existing erosion is caused by roads traversing the

APS.
Arroyo del Oso. school

drainage area. Damage by off-road vehicles contributes to the remainder of the erosion within the drainage area.

Costs are based upon the use of City forces. Alternatives to the use of City forces are contracting out or the use of "public service" convicts.

This plan will address items of primary and secondary importance in maintaining and improving the ecological balance and aesthetics within the drainage area.

A. Primary Recommendations:

1. Water barriers (also known as "Thank-You-Mams") are very effective in erosion control on rural farm and ranch dirt roads. Since roads within the drainage area are the main source of erosion, it is highly recommended that water barriers be constructed in accordance with the specifications in Figure No. 1. The locations are shown on Plan Map No. 1.

Structure No.	Amount	Est. Cost Materials and Labor	Location of Water Barriers Shown on Plan Map No. 1 as PWD
PWD-1	33	$15.00 EA $495.00	At west end on drainage area, a series of barriers (400' apart) in road that runs from northwest corner of Sec. 29 and ends near the center of Sec. 34.
PWD-2	21	$315.00	A road near the southwest corner of Sec. 26 which runs northeast toward the center of Sec. 24. Series of water barriers at 400' intervals.

Structure No.	Amount	Est. Cost Materials and Labor	Location of Water Barriers Shown on Plan Map No. 1 as PWD
PWD-3	56	$840.00	A series of water barriers 300' apart on road at top of Sec. 23, 24, 19, and one-fourth mile into Sec. 20.
PWD-4	35	$530.00	Series of water barriers on road starting in northeast corner of Sec. 24 and south to the southeast corner of Sec. 25. Structures should be 300' apart.
PWD-5	23	$345.00	Series of water barriers (300' apart) on road from north center of Sec. 19, southwest to northwest corner of Sec. 30.
PWD-6	18	$270.00	Series on road (300' apart) in west half of west half of Sec. 20.
PWD-7	46	$690.00	Series on road on north part of Sec. 28 and 29. Barriers should be 200' apart.

2. Loose rock dams are very effective for controlling erosion in small, severely eroded gullies or roads. See Figure No. 2 for specifications. Loose rock dams require no other costs except labor and some vehicle costs for loading/unloading rocks.

Structure No.	Amount	Est. Cost Materials and Labor	Location of Loose Rock Dam Series
PRD-1	45	$12.00 EA $540.00	A series of loose rock dams (200' apart) in old road in the southwest corner of drainage area in Sec. 29, 32, and 33.

Structure No.	Amount	Est. Cost Materials and Labor	Location of Water Barriers Shown on Plan Map No. 1 as PWD
PRD-2	34	$408.00	A series of rock dams in gully in southeast corner of Sec. 19 (100' apart) and into southwest corner of Sec. 20.
PRD-3	34	$408.00	A series of rock dams in gully near the northeast corner of Sec. 19 and into the west central part of Sec. 20 (100' apart).
PRD-3 PRD-4 PRD-5	34 30 20	$408.00 $360.00 $240.00	A series of loose rock dams in three separate gullies which run from the east part of Sec. 30 to the west part of Sec. 29 (200' apart).
PRD-6 PRD-7	8 8	$96.00 $96.00	A series of loose rock dams in two separate gullies in the southeast one-fourth of Sec. 21 northwest of water tank. Dams should be 200' apart.

3. Net wire diversions are simple, cheap, and very effective in controlling erosion in small gullies. They can be substituted for loose rock dams if the source of rock material is too distant or is of short supply. Used wire and posts can be utilized. Used and/or damaged material can possibly be obtained free of charge from local road departments. The tops of the metal posts should be painted red as a safety measure for hikers. See Figure No. 3 for specifications.

Structure No.	Amount	Est. Cost Materials and Labor	Location of Net Wire Diversions on Plan Map No. 1
PNW-1	28	$10.00 EA $280.00	A series in a gully on the west end of drainage area on the west side of Sec. 16 built 50' apart.

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4. The construction of dikes is an effective way to divert or retain water within a drainage area. The purpose of the dikes recommended in this plan is for retention of runoff and control of erosion.

Structure No.	Amount	Est. Cost Materials and Labor	Location of Dikes on Plan Map No. 1
PD-1	1	$300.00	Dikes (2) to be built on west side of drainage area in the southwest corner of Sec. 17.
&			
PD-2	1	$300.00	
PD-3	1	$300.00	One dike to be built on west side of drainage area near the east central part of Sec. 20.
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Structure No.	Amount	Est. Cost Materials and Labor	Location of Dams on Plan Map No. 1
P-Dam-1	1	$1.50/CY 2,500 CY $3,750.00	Dam to be built in drainage in southwest corner of Sec. 16 on east side of drainage.
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6. Special treatment units are areas requiring more than one conservation measure to control erosion. They are normally isolated, when feasible.

Structure No.	Amount	Est. Cost Materials and Labor	Location of Special Treatment Units on Plan Map No. 1
STU-1	40 AC		Area located in northeast part of drainage area in southeast one-fourth of Sec. 17. Area is severely damaged by off-road vehicles.
	600 LF	$3.00 LF $1,800.00	It should be fenced off to be isolated and protected.
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8. The total estimated cost of Primary Recommendations is **$33,101.00.**

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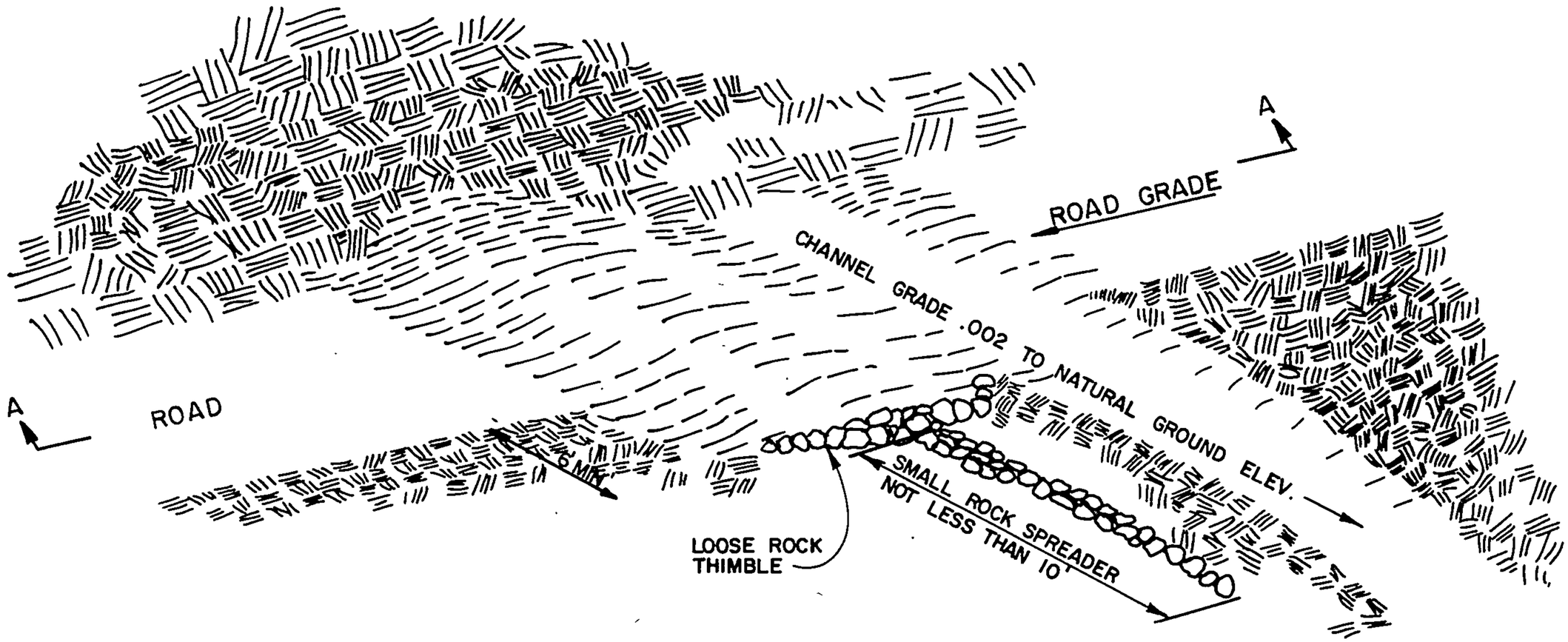
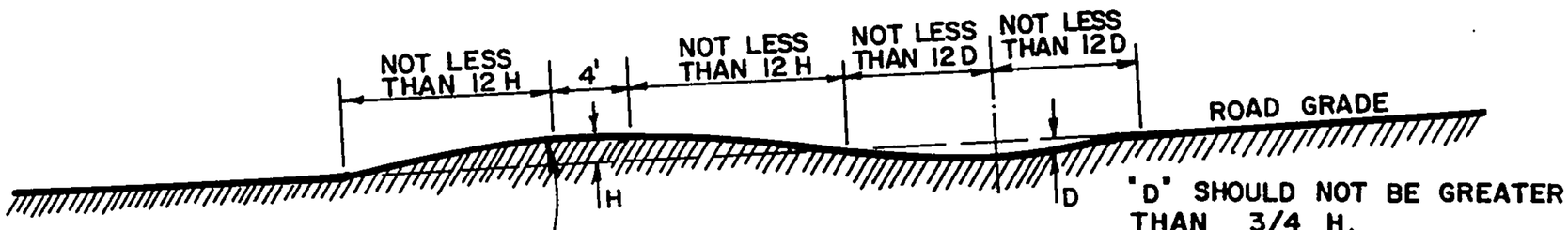
The implementation of the recommendations contained herein are not, in and of themselves, critical to the success of the joint use of the Mariposa Basin. They are only tools to be used in the maintenance of the excellent hydrologic conditions which exist in the watershed, which is critical to the joint use concept. It cannot be stated too strongly that only through the proper stewardship of the publicly owned lands (which is its own reward) can the existing basin and channel system continue to meet flood control requirements as well as provide an opportunity for the joint use of the facilities.





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THANK U MAM FOR TRAVELED ROADS

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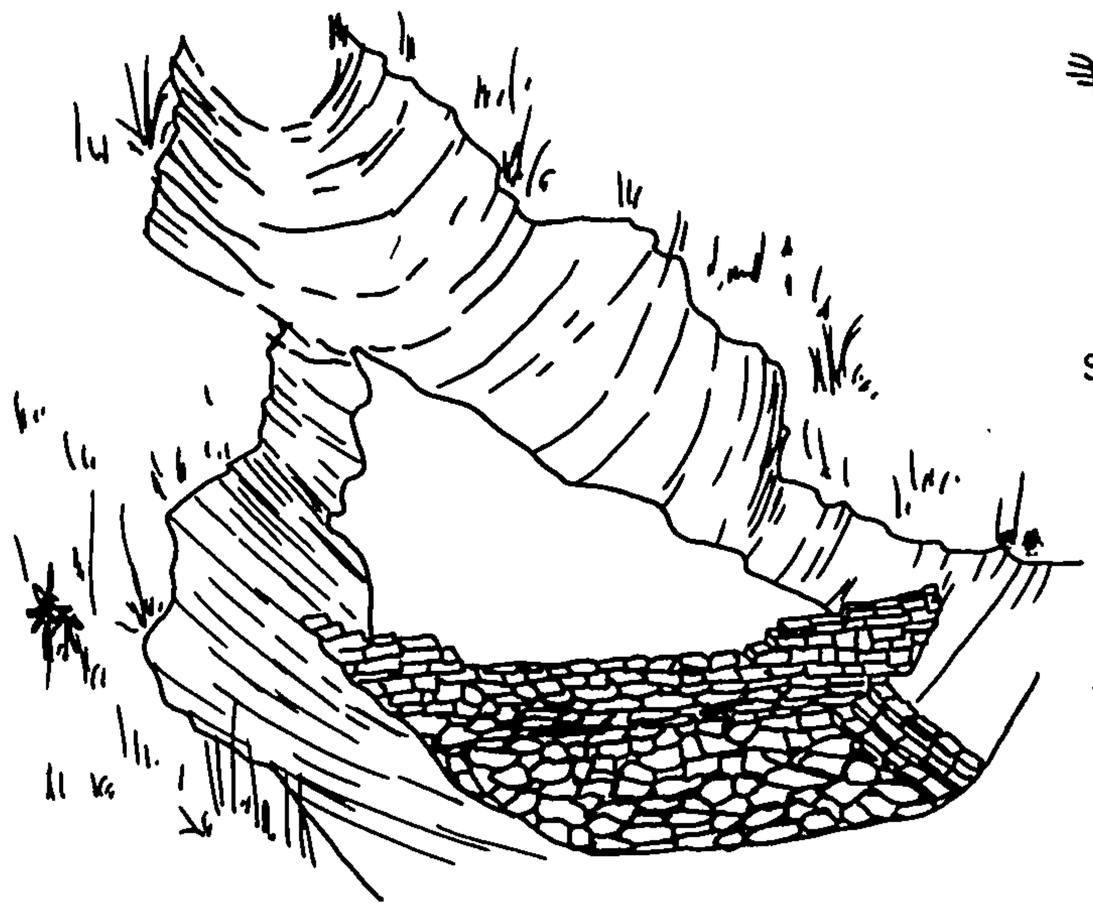
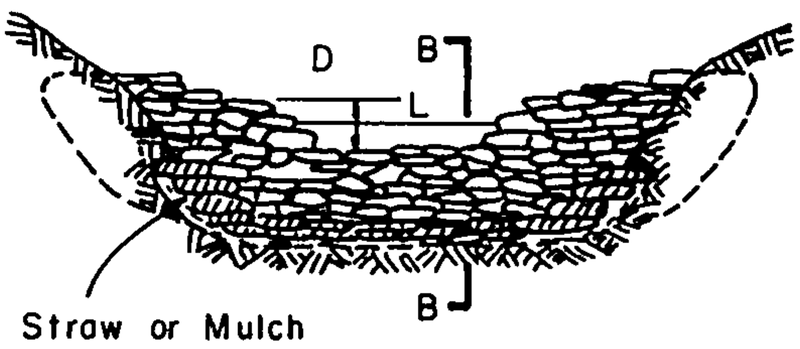
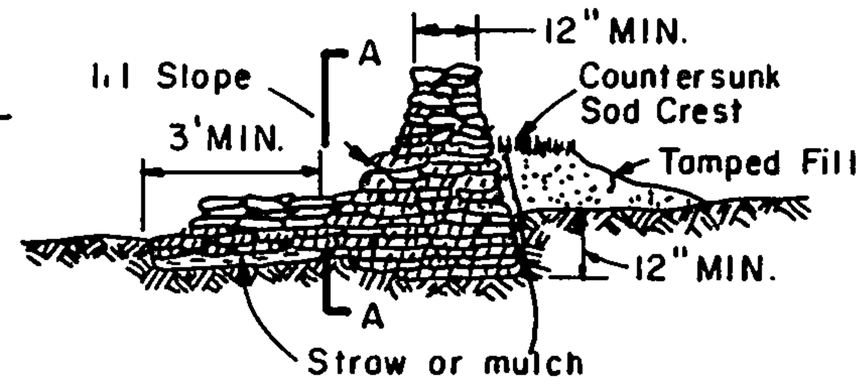




SECTION AT A-A



SECTION AT B-B

A LOOSE ROCK DAM

APPROXIMATE DISCHARGE CAPACITY OF RECTANGULAR WEIR.
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1.5	23.5	35.2	47.0	58.8			
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The depth of notch is indicated by d in the drawings.
The length of notch is indicated by l in the drawings.

FIGURE 2

NET WIRE DIVERSION

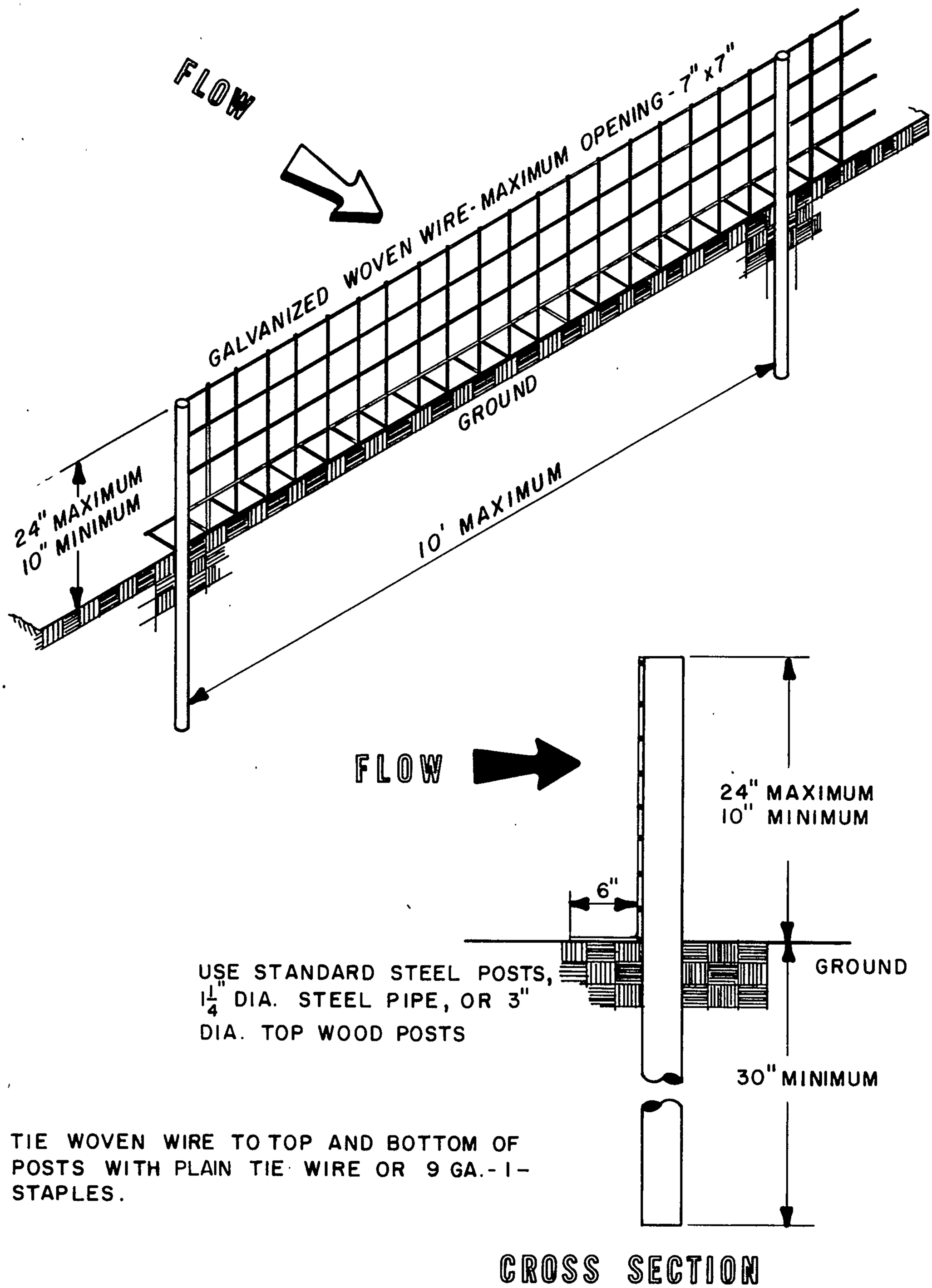

FIGURE 3

MARIPOSA BASIN

REGIONAL ATHLETIC COMPLEX

MASTER PLAN

JULY 10, 1990

MARIPOSA BASIN
REGIONAL ATHLETIC COMPLEX
RECREATION MASTER PLAN

Prepared for:

City of Albuquerque
Parks and Recreation Department
P.O. Box 1293
Albuquerque, New Mexico 87103

Prepared by:

A. Wayne Smith & Associates
610 Gold SW, Suite 216
Albuquerque, New Mexico 87102

and

Easterling & Associates
5643 Paradise Blvd., NW
Albuquerque, New Mexico 87114

July 10, 1990

ACKNOWLEDGEMENTS

City of Albuquerque:

Mike Walker, Director, Parks and Recreation Department
Dan Duran, Assistant Director, Parks and Recreation Department
Pat Westbrook, Superintendent, Design and Development Division
Sandy Zuschlag, Assistant Superintendent, Design and Development Division
Thomas Gay, Park Designer, Design and Development Division
Magdalena Graham, Planner, Parks and Recreation Department
Mary Lou Haywood-Spells, Office of Neighborhood Services

State of New Mexico:

Senator Martin Chavez

Steering Committee:

Louis Chavez, Neighborhood Resident
Mark Ethredge, Neighborhood Resident
David Guzman, Albuquerque Police Department
Tracy Jones, Neighborhood Resident
Roger Knight, City Parks and Recreation, Sports Division
Russ Lloyd, Neighborhood Resident
Rick Medford, Volcano Cliffs Baseball Association
Chuck Mullins, U.S. Fish and Wildlife Department
Bill Newman, New Mexico Rio Grande Soccer League
Don Newton, Taylor Ranch Neighborhood Association
Lisa Petersen, Santa Fe Village Neighborhood Association
Pat Powers, Neighborhood Resident
Lynne Scott, Horseways, Inc.
Phil Smith, Taylor Ranch Neighborhood Association
Stephen M. Torres, Taylor Ranch Soccer Club

Design Team:

A. Wayne Smith & Associates
- A. Wayne Smith, Principal-in-Charge
- Jim Strozier, Project Manager
- Kris Floor, Senior Designer
- Chris Green, Designer

Easterling & Associates
- Chuck Easterling, Principal Engineer
- Dave Smith, Engineering Technician
- Laurie Schuller, Civil Engineer

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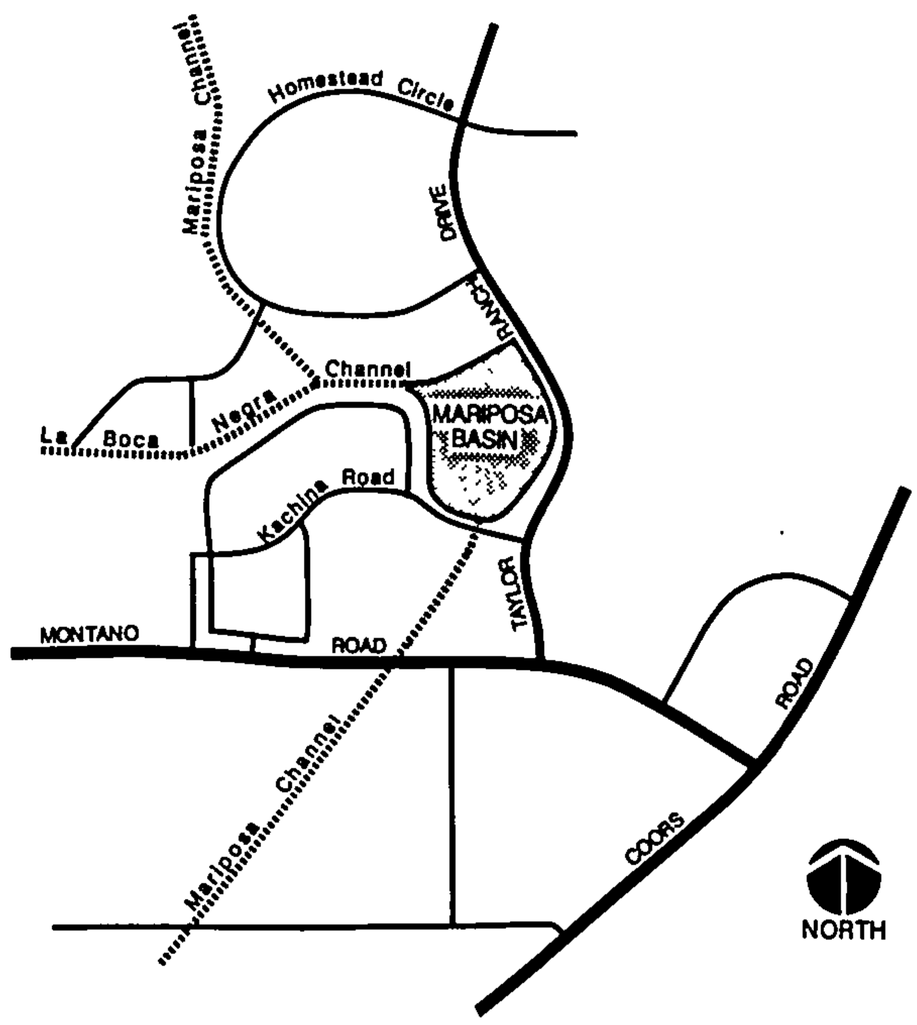
INTRODUCTION

The Mariposa Basin is a 36-acre flood control basin located within Taylor Ranch on Albuquerque's West Side. The Basin is located northwest of the intersection of Taylor Ranch Drive and Kachina Road. In 1983, the Albuquerque Metropolitan Arroyo Flood Control Authority deeded the Mariposa Basin system to the City of Albuquerque for development as a future recreational facility.



From 1983 to 1990 the Basin sat virtually untouched. In 1984, snow fencing was installed to address the problem of blowing sand in the Basin. The fencing was successful in establishing vegetation in the Basin and reducing the amount of blowing sand. The 1987 Bond issue identified funding for regional park development which made funds available for Mariposa Basin. Due to the complex nature of this project, the City hired a design team to address the feasibility and implementation of a regional park in the Basin.

This Master Plan is an integral part of the City of Albuquerque's strategy to provide parks and recreational facilities in this rapidly growing area. The primary focus for the Mariposa Basin Regional Athletic Complex is to provide the West Side with youth soccer and youth baseball facilities. Presently the youth soccer programs have 600 participants from the Taylor Ranch area and 3,000 total participants from the West Side, and yet there are virtually no facilities in the Taylor Ranch area. Currently, there are approximately 225 soccer teams in the Taylor Ranch area, and only 9 game fields and 18 practice fields available. There is also a lack of youth baseball facilities in the area with a similar number of participants in the program. Due to this lack of facilities, the participants in these programs must be transported weekly to games and practices in other areas of the city.

The 28 acre park will be able to accommodate up to five full-sized soccer fields and a four-field youth baseball complex. In addition to these activities, the Basin will also provide neighborhood park facilities for those neighborhoods surrounding the basin.

The Master Plan for Mariposa Basin was developed in conjunction with a steering committee made up of representatives from the surrounding neighborhoods and special interest groups. This steering committee was formed following a public information meeting held at the Marie Hughes Elementary School on October 4, 1989. The steering committee met on a monthly basis throughout the development of the Master Plan, which included the review and analysis of four alternative recreation plans.

The Master Plan was developed in accordance with the following goals:

- Minimize the damage potential to park improvements within the Basin from flooding under existing conditions, as well as future buildout conditions.

- Utilize creative and cost efficient flood control solutions in order to minimize the cost of flood control structures to protect the park improvements.

- Protect the park improvements from stormwater run-off and provide usable recreation improvements within the Basin.

- Insure safe and adequate access to the park.

- Develop recreational facilities in accordance with the City Parks and Recreation Department, which will meet the recreational needs of the neighboring residents and the entire West Side of the City of Albuquerque.

The purpose of this document is to review the site analysis, surrounding land uses, the feasibility study, the recreation master plan, and design guidelines. This document will provide the design parameters which will be used in the preparation of construction documents for the development of the Mariposa Basin Regional Athletic Complex.

This document also provides preliminary cost estimates and phasing plans in order to assist in the implementation of the facility.

Recreation

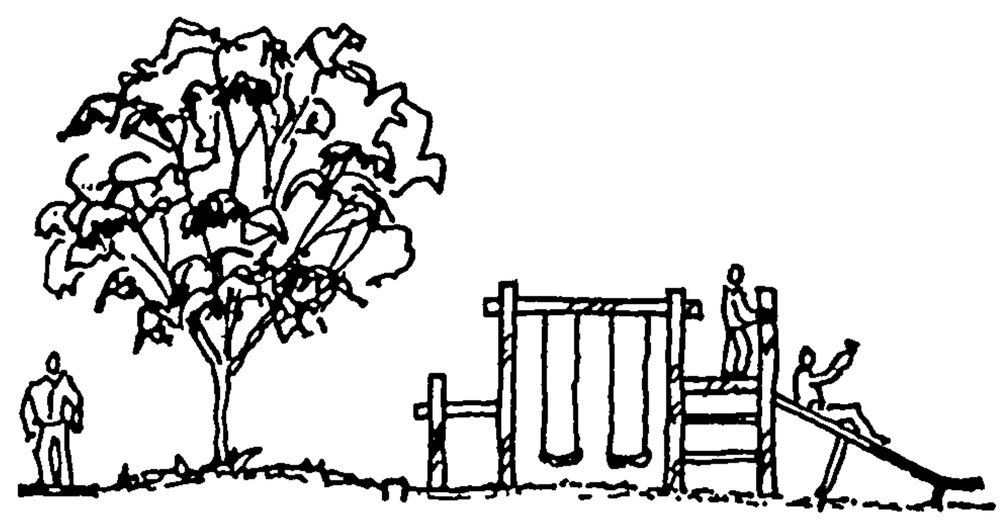
The proposed Mariposa Basin Regional Athletic Complex offers the surrounding neighborhoods a host of active uses as well as passive uses with on-site parking within the 28 acres available for park development. The Master Plan has been designed to accommodate these recreational activities without interrupting the basin's main drainage function.

The proposed Master Plan calls for a combination of play fields, ramada and picnic tables, exercise trails, a playground, a tot lot, and a small pond/wetland area. In addition to the ±350 parking spaces located within the basin, the following list of amenities are proposed:

- A potential for 5 turf soccer fields. The Master Plan was developed with large turf areas that will allow maximum flexibility to rotate and move the fields as necessary for maintenance and field size. Three fields on the north end of the site would be permanent while the other two fields would overlap two of the youth baseball fields.

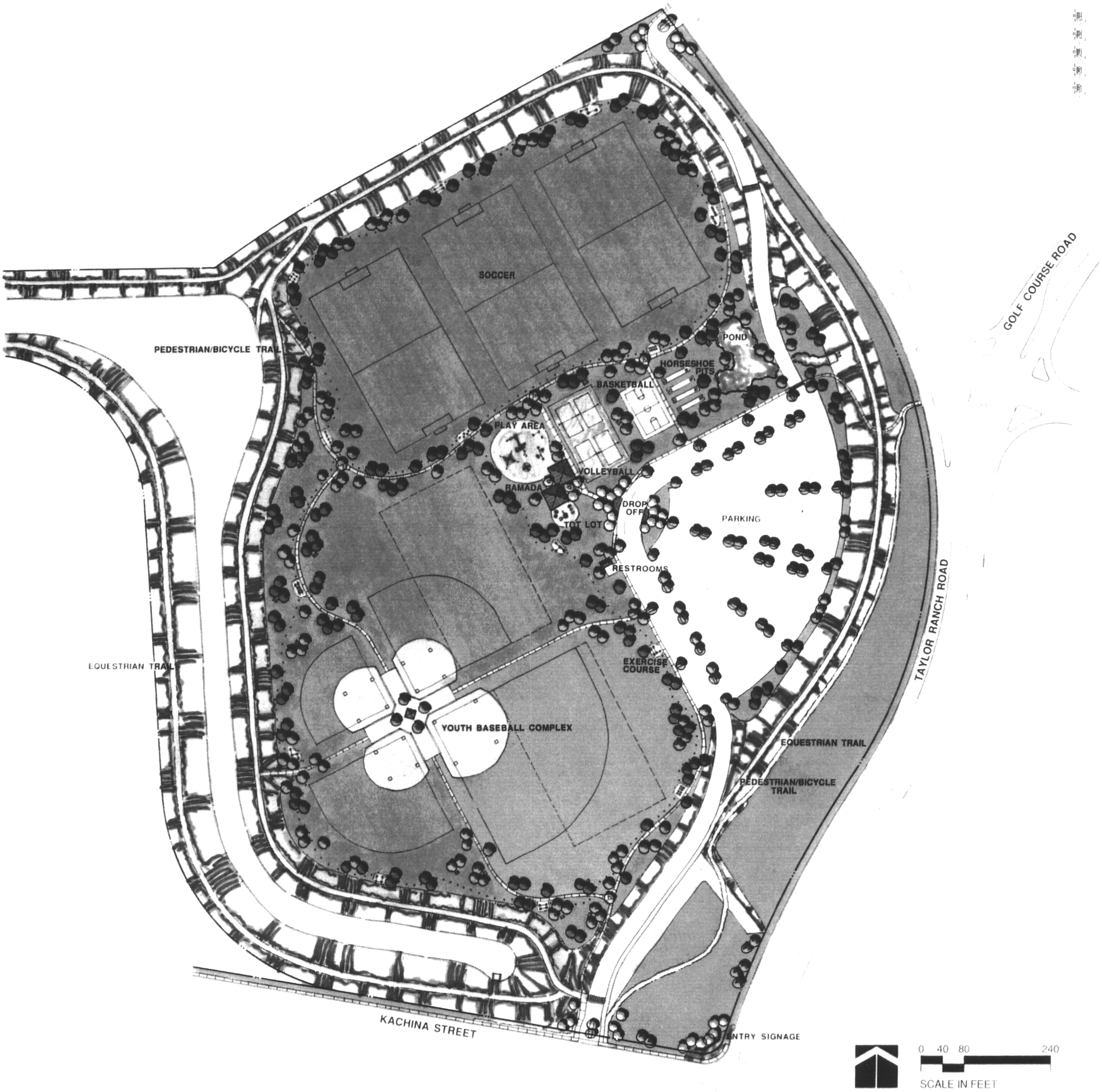
- A 4-field youth baseball complex. Varying sizes of fields will offer maximum flexibility to a wide range of age groups.

- Located within the central zone of the park are four sand volleyball courts, four horseshoe pits, at least one basketball court, a medium-sized children's play area, and a smaller tot lot. In addition to these play areas, temporary/portable restrooms, and a large ramada area including picnic tables, barbecue grills, and trash receptacles have also been provided. Locating this core, as well as the parking, away from residential property lines will help assure compatibility with the neighborhood. Security lighting is also proposed for this area.



- Various areas of the park will be connected by a meandering sidewalk network.

- An exercise/jogging trail will circulate throughout the park.



• Mariposa Basin •

REGIONAL ATHLETIC COMPLEX

DESIGNED FOR • CITY OF ALBUQUERQUE PARKS AND RECREATION DEPARTMENT PLANNER • A. WAYNE SMITH AND ASSOCIATES
CIVIL ENGINEER • EASTERLING AND ASSOCIATES, INC.

- Picnic tables will be located in open space areas, adjacent to the recreation areas, under the ramada, and play fields.

- A small pond area will function as part of the overall drainage system. The pond area will accommodate stormwater runoff entering the Basin from Taylor Ranch Road. There is an existing ponding area located in this area.

Parking

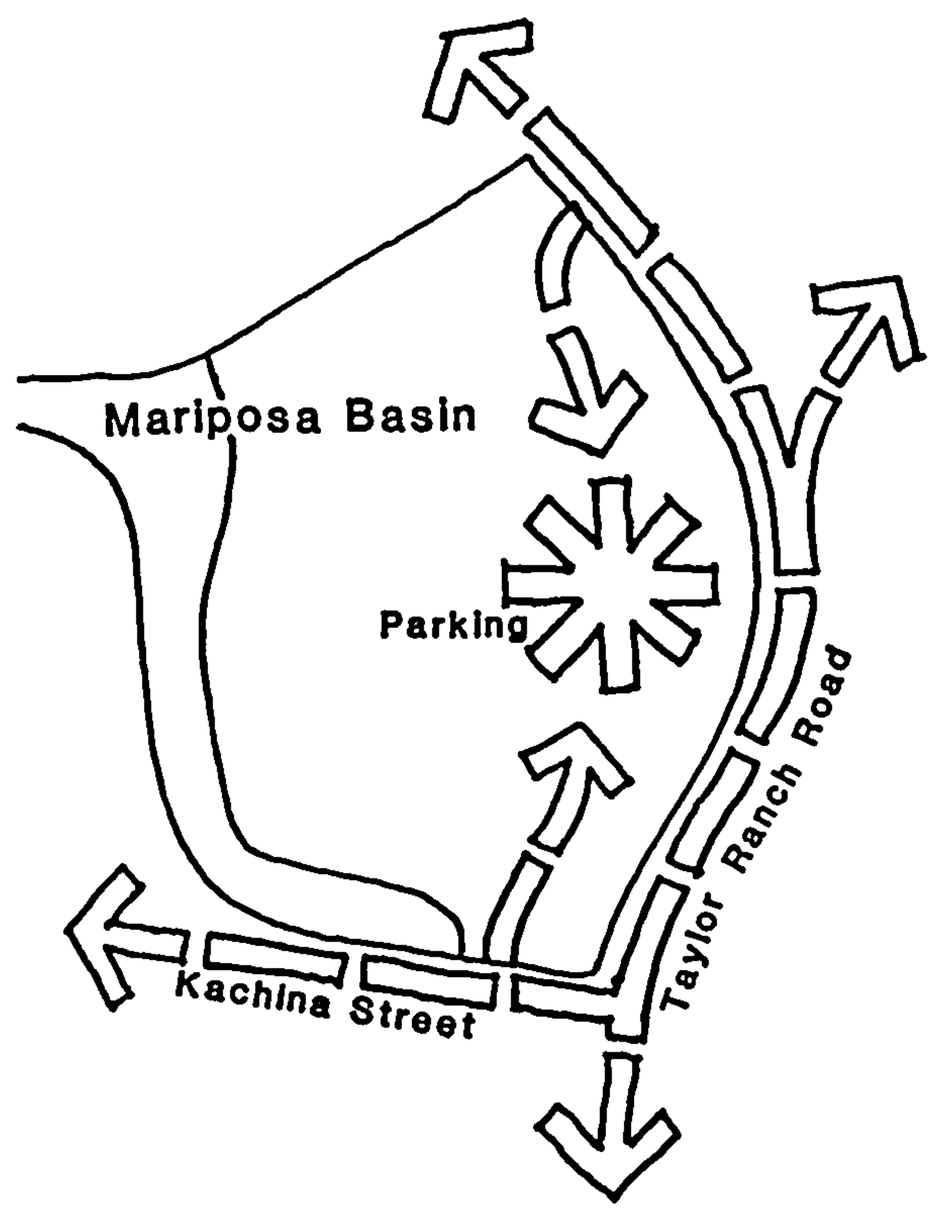
A parking lot for the entire Basin is centrally located within the facility. The parking lot will accommodate 350 parking spaces, drop-off area, and maintenance access to the restrooms.

Lighting

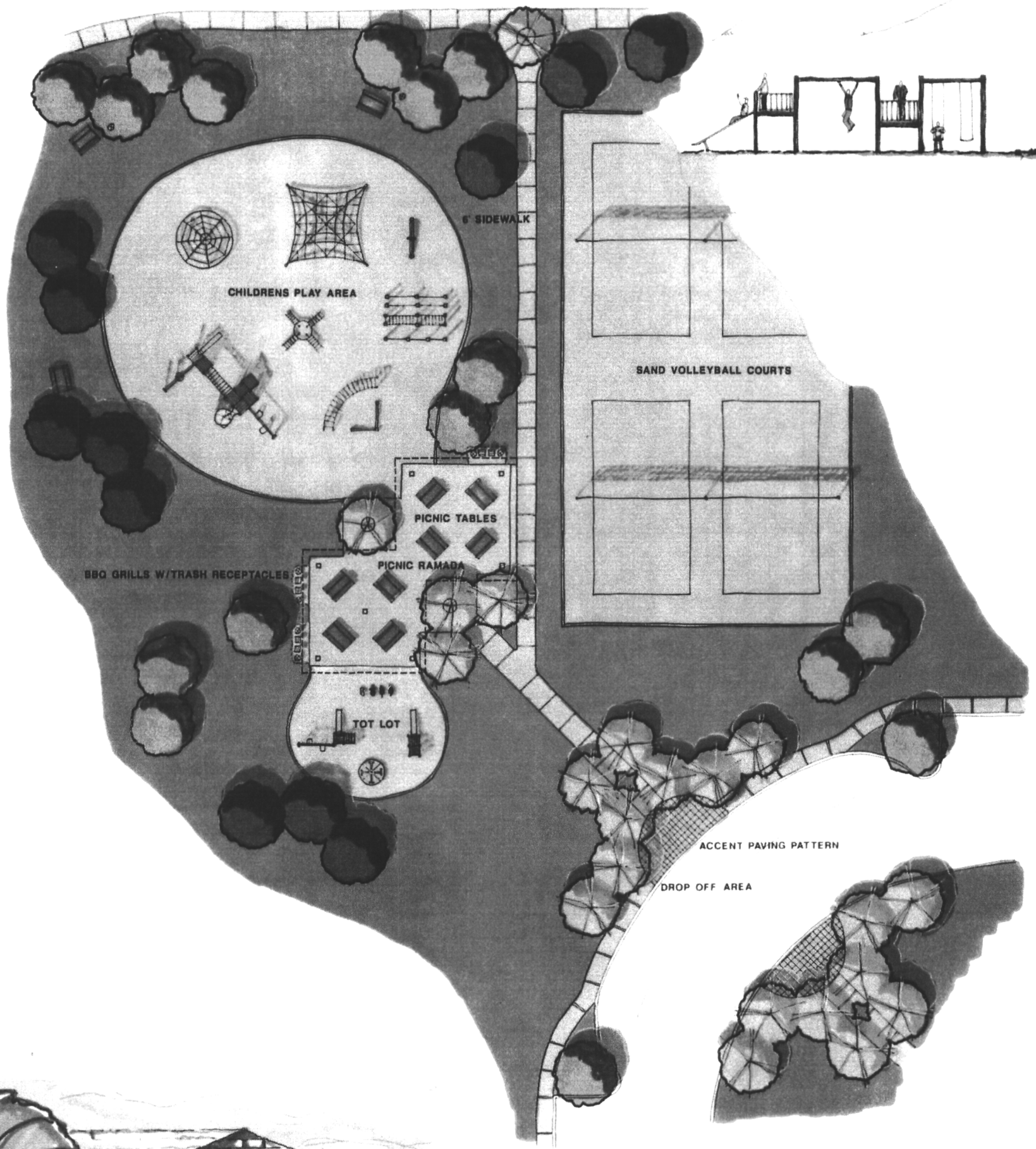
No ballfield lights are proposed for the Basin at this time. The only lights within the Basin will be security lighting for safety purposes. The surrounding neighborhood associations expressed opposition to field lights, and any changes to the lighting plan for the Basin will be reviewed by the neighborhood associations.

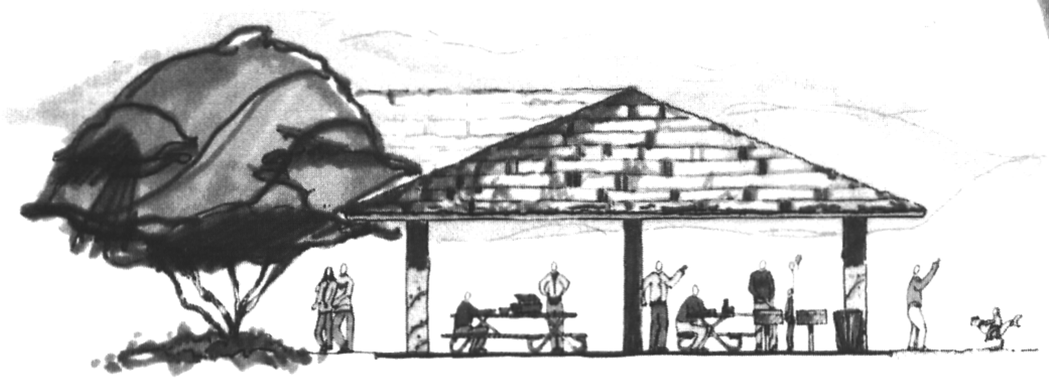
Access

Access into the basin is proposed both from the North and from the South. The southern entrance accesses the basin from Kachina Road through the spillway thus reducing the elevation change into the Basin and taking advantage of the visibility into the Basin offered through the spillway. The northern access road enters the Basin from Taylor Ranch Road. The final alignment, grade, width, and determination of one-way versus two-way traffic will be made in conjunction with the City of Albuquerque Traffic Engineering Division during the design development phase of the project.



SECTION THRU PLAY AREA





SECTION THRU PICNIC RAMADA

· Mariposa Basin ·

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Recreational Trails

The Mariposa Basin will act as a hub for pedestrian, bicycle, and equestrian trails in Taylor Ranch. The Basin Trail Plan will utilize the channels and berms to connect the existing Mariposa Trail and the Riverview Trail to the Marie Hughes Elementary School, and Homestead Circle Park. Wherever possible, the equestrian trail has been separated from the pedestrian/bicycle trails.

Plant Material

A variety of plant material will be used within the Basin to provide shade, define spaces, buffer active and passive uses, and develop a sense of scale. Native and drought tolerant plantings will be used as much as possible throughout the park, and specifically on and adjacent to the main berm. Consideration will be given to the inclusion of flowering and colorful plant materials adjacent to the entryways, signage, and parking area.

Plant material specifications shall include:

Minimum size tree: 2" caliper
Minimum size shrub: 1 gallon container if available
All trees shall be staked as dictated by individual species requirements

Specific plantings for Mariposa Basin may be selected from the following list:

Native Plants

Three-leaf Sumac	*Rhus trilobata*
Cottonwood	*Populus fremontii*
Arizona Cypress	*Cypressus arizonica*
Coral Flowering Yucca	*Hesperaloe parviflora*
Chamisa	*Chysothamnus nauseosus*
Apache Plume	*Fallugia paradoxa*
Fourwing Saltbush	*Atriplex canescens*
Indian Ricegrass	*Oryzopsis hymenoides*
Blue Gramma Grass	*Bouteloua grailis*
Buffalo Grass	*Buchloe dactyloides*
Mariposa Lily	*Calochortus nuttallii*
Verbena	*Verbena spp.*
Evening Primrose	*Oenothera spp.*
Penstemon	*Penstemon spp.*
Prairie Coneflower	*Ratibida columnifera*
Prairie Aster	*Machacranthera tanacetifolio*
Gaillardia	*Gaillardia spp.*
California Poppy	*Eschscholzia californica*
Winterfat	*Ceratoides lanata*
Bird of Paradise	*Caesalpinia pulcherrima*
Blue Flax	*Linum perenne lewisii*
Cherry Sage	*Salvia greggii*

<u>Deciduous Trees</u>	
Ash	*Fraxinus spp.*
Honeylocust	*Gleditsia triacanthos inermis*
Japanese Pagoda	*Sophora japonica*
Chinese Pistache	*Pistaclia chinensis*
Russian Olive	*Eleagnus angustifolia*
<u>Evergreen Trees</u>	
Austrian Pine	*Pinus nigra*
Scotch Pine	*Pinus sylvestris*
Rocky Mountain Juniper	*Juniperus scopulorum*
Pinon Pine	*Pinus edulis*
<u>Ornamental Trees</u>	
Golden Rain Tree	*Koelreuteria paniculata*
Eastern Redbud	*Cercis canadensis*
Bradford Pear	*Pyrus calleryana 'Bradford'*
Desert Willow	*Chilopsis linearis*
Crabapple	*Malus spp.*
<u>Deciduous Shrubs</u>	
Cotoneaster	*Cotoneaster spp.*
Japanese Barberry	*Berberis thunbergii*
Flowering Quince	*Chaenomeles speciosa vars.*
Crape Myrtle	*Lagerstroemia indica*
New Mexico Olive	*Forestiera neomexicana*
Spirea	*Spiraea spp.*
Redtwig Dogwood	*Cornus stolonifera*
Fragrant Snowball	*Viburnum carlcephalum*
Forsythia	*Forsythia intermedia*
<u>Evergreen Shrubs</u>	
Creeping Mahonia	*Mahonia repens*
Indian Hawthorn	*Raphiolepsis indica*
Photinia	*Photinia spp.*
Juniper	*Juniperus spp.*
Wax-leaf Privet	*Liqustrum japonica 'Texanum'*
Silverberry	*Elaeagnus pungens 'Fruitlandii'*
Cotoneaster	*Cotoneaster spp.*

Vines and Ground Covers

Periwinkle	*Vinca minor*
Creeping Myrtle	*Vinca major*
Lily Turf	*Liriope spp.*
Daylilies	*Hermerocallis spp.*
Bugleweed	*Ajuga reptans*

Irrigation

An automatic, timed irrigation system shall be used for the Mariposa Basin Regional Athletic Complex, except in areas adjacent to the main berm. A central computerized control center located at the maintenance yard and digital controllers with auxiliary radio controls may be used. All components will be readily available and easily replaced. Turf areas shall receive head-to-head coverage, while native plant areas may receive a combination of temporary and permanent irrigation until established. Native plants used in ornamental applications will require permanent irrigation.

Quick couplers shall be located near playfields and elsewhere as necessary for maintenance purposes. PVC sleeves are required under all paved areas. Irrigation line specifications will be determined based upon City Standard details and specifications, and design criteria developed by the City's Design and Development Division of Parks and Recreation.

Assuming that all irrigation will take place within a 10 hour period each day, the water requirement will be approximately 340 gallons per minute. This can be accommodated by one 6" meter.

Visibility

The Mariposa Basin is located in the heart of the Taylor Ranch neighborhood. However, since it is a flood control facility, visibility into the Basin is limited. The primary views into the region occur through the spillway located at the intersection of Kachina and Taylor Ranch Roads. Due to the difference in elevation of at least 14 feet from the bottom of the Basin to the top of the berms, views out of the Basin are very limited.

Access

The Basin is adjacent to Kachina Road to the south and Taylor Ranch Road to the east and northeast. This will allow access into the Basin from the north and south. There are also existing service roads on top of the berms surrounding the Basin and extending west along the channel. Gated service road access down into the Basin also exists on the southeast and northeast sides of the Basin.

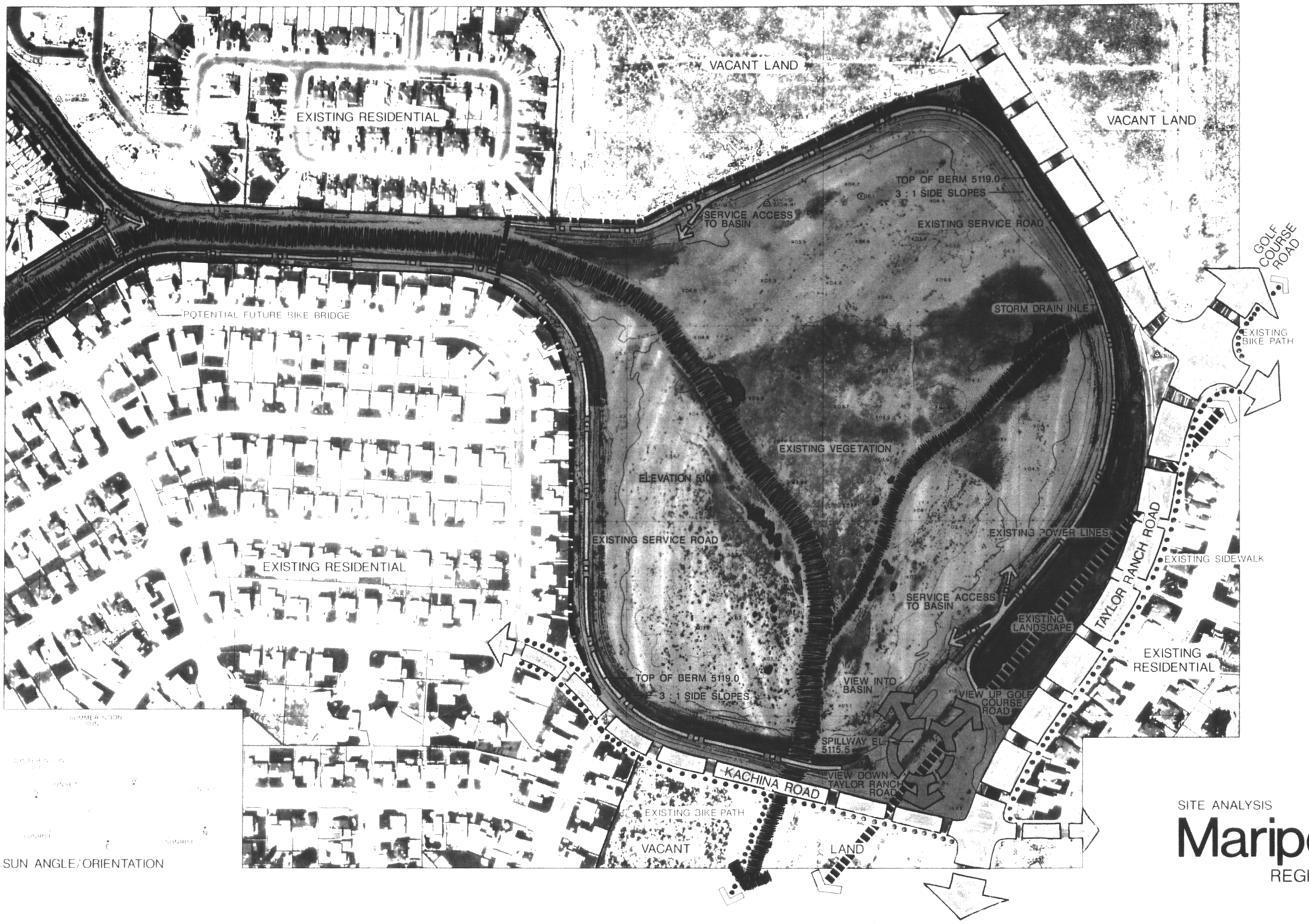
Soils

The soils over the entire site are composed of sandy loam belonging to the Madurez-Wink Association. The gently sloping Madurez soil is mainly on slightly convex piedmont fans. The Wink soil is on the sides of low ridges. Runoff is slow, and the hazard of wind blowing is moderate to severe.

SOIL ANALYSIS

Soil Texture	% Sand	% Silt	% Clay	PH
Sandy Loam	86	5	9	8.7

NOTE: Specific nutrient/mineral contents are available upon request.
Source: IAS Laboratories, October 5, 1988



SUN ANGLE/ORIENTATION

LEGEND

- EXISTING ROADS
- EXISTING VIEWS
- EXISTING SERVICE ROADS
- EXISTING SIDEWALKS/BIKE PATHS
- EXISTING DRAINAGE PATTERNS
- SITE BOUNDARY
- EXISTING LANDSCAPE/VEGETATION
- EXISTING POWER LINES

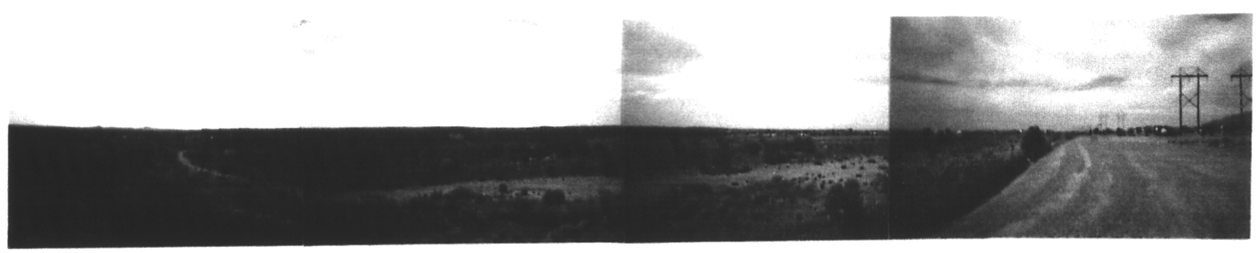
EXISTING VEGETATION

A MAJORITY OF THE SITE IS COVERED WITH VARIOUS NATIVE GRASSES, WILDFLOWERS AND SHRUBS, SUCH AS: INDIAN RICEGRASS, SAND DROPSEED, CHAMISA, GLOBE MALLOW, WINTERFAT, FOUR-WING SALTBUSH. SEVERAL GROUPINGS OF COTTONWOODS ARE ALSO PRESENT.

SITE ANALYSIS

Mariposa Basin

REGIONAL ATHLET'C COMPLEX



Prepared For
CITY OF ALBUQUERQUE
PARKS & RECREATION DEPARTMENT
P.O. BOX 1293
ALBUQUERQUE, NEW MEXICO 87103

NORTH

Prepared By
A. WAYNE SMITH & ASSOCIATES
A Subsidiary of Cornerstone Hedrick
610 GOLD SW, SUITE 216
ALBUQUERQUE, NEW MEXICO 87102
(505) 764-9801
27 SEPT. 1989

EASTERLING & ASSOCIATES, INC.
CONSULTING ENGINEERS
5643 PARADISE BOULEVARD NW
ALBUQUERQUE, NEW MEXICO 87114

Trails

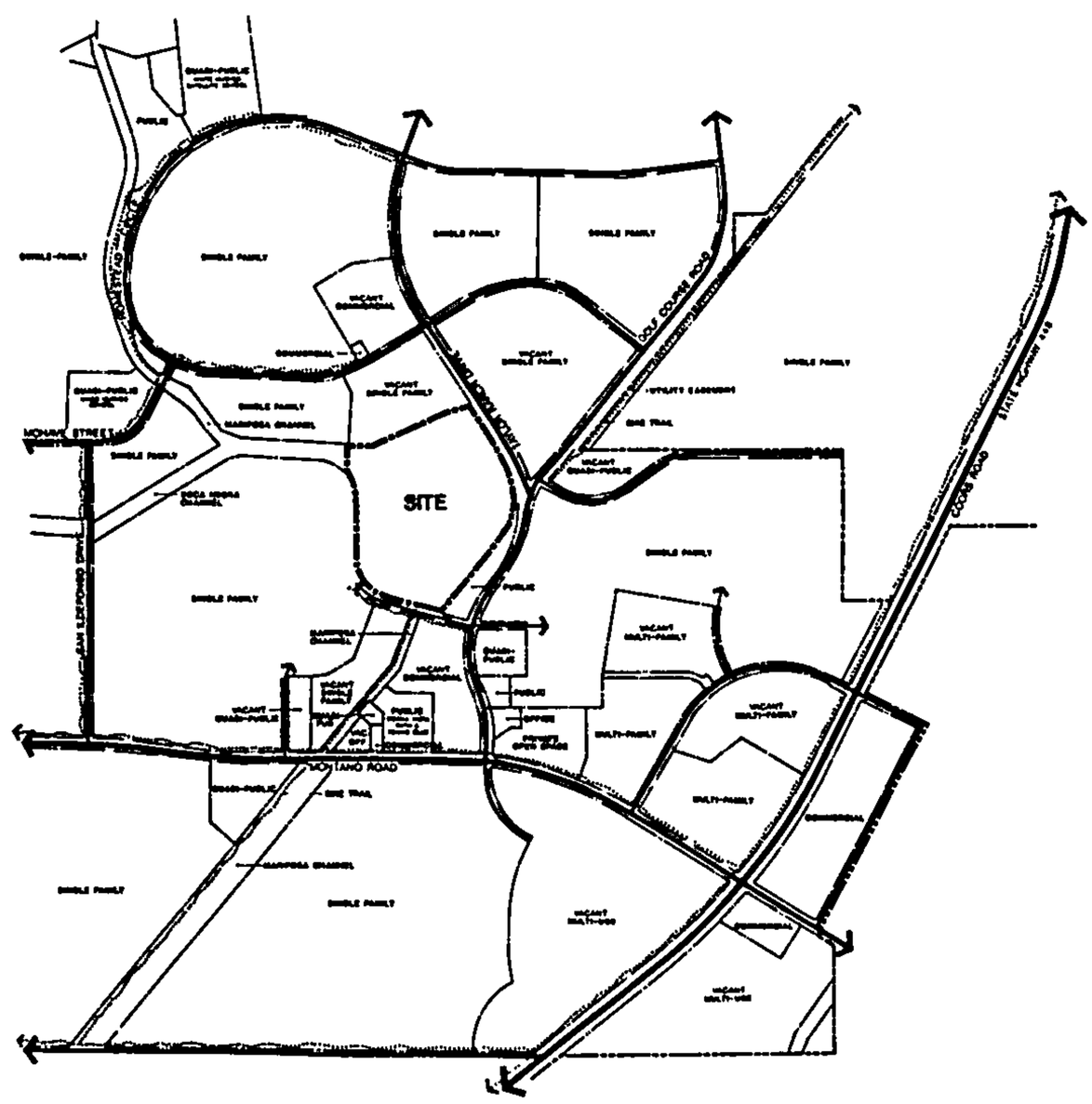
There are two bicycle trails that provide access to the Basin from surrounding areas. The Riverview Bike Trail which runs north along Golf Course Road from the intersection with Taylor Ranch Road just northeast of the Basin. The Mariposa Bike Trail begins just south of the Basin and travels south along the Mariposa Channel from Kachina Road.

In addition to these Bike Trails, there are several sidewalks that provide pedestrian access to or near the Basin. Sidewalks exist on the east side of Taylor Ranch Road and on the south side of Kachina Road.

Surrounding Land Uses

The surrounding land uses are primarily vacant and developed single family residential. Just to the south of the Basin is area zoned for commercial development. Multi-family development is located southeast of the property along Montano Road. Several schools and recreation areas are located in the immediate area.

- Marie Hughes Elementary School
- Marie Hughes Satellite Elementary School
- Sierra Vista Swim and Tennis Facility
- Taylor Ranch Homestead Circle Park (currently planned for development in the early 1990s)



The total development costs for the Mariposa Basin Regional Athletic Complex is estimated at $1,510,916. The Phasing plan has been developed to provide the City of Albuquerque and the surrounding residents with the maximum improvements that may be provided with the funds currently available. The established funding for the initial phase for the Mariposa Basin Regional Athletic Complex and related recreation trails is $775,000. The components of this funding are identified in Table One.

Proposed Phase One improvements (excluding the recreation trails) are outlined in detail in Table Two. Phase One engineering improvements include the construction of a paved entrance road from the south; the parking lot (gravel); grading and earth work for the north soccer fields, neighborhood park area, and parking area; and utility connections.

In Phase One, the Regional Park funds will be used for the development of a turf area large enough to support three full-sized soccer fields and related infrastructure. If potential conflicts concerning dust control can be resolved, Phase I may include rough grading for the Youth Baseball area. The Neighborhood Park funds will be used for the development of the neighborhood park feature within the Basin and a portion of the related infrastructure. The trail monies will be utilized to develop pedestrian, bicycle, and equestrian trail connections surrounding the Basin.

Table Three provides a preliminary cost estimate to complete the entire park development. Additional costs include the second entrance road, paving of the parking lot, the youth baseball area, and completion of the neighborhood park improvements.

TABLE ONE
PHASE ONE FUNDING SOURCES

Mariposa Basin		
Regional Park Development	$500,000	
Neighborhood Park Development	75,000	575,000
Recreational Trails		
Mariposa Channel Trail	100,000	
Boca Negra Channel Trail	100,000	200,000
TOTAL		$775,000

TABLE TWO
PHASE ONE PRELIMINARY COST ESTIMATE

Engineering		
Entrance Ramps		
Grading & Dirt Work	1 @ $39,600	$39,600
Paving & Curb & Gutter	1 @ $23,220	23,220
Parking Lot (Gravel Surface)		7,830
Interior Berms		58,860
Interior Drainage Features		13,500
Water Lines (Includes Breech of Berm)		28,530
Water UEC (Assume 6" meter)		66,330
Grading (Soccer Fields, Play Area, and Parking Lot)		95,040
Rough Grading (Youth Baseball Area)		27,000
TOTAL ENGINEERING		$359,910
Landscaping		
Regional Park Improvements:		
Turf (North Soccer Field Area)		$67,500
Irrigation		50,000
Restroom Enclosure and pad		650
Entry Features/Signage		1,000
Trees and Shrubs		6,544
		$125,694
Neighborhood Park Improvements:		
Play Structures (Structures, Installation & Site Work)		$40,000
Trees & Shrubs		6,500
Picnic Tables (5)		1,500
		$48,000
TOTAL LANDSCAPING		$173,694
Recreational Trails		
Mariposa Trail		$66,569
Boca Negra Trail		66,569
TOTAL RECREATIONAL TRAILS		$133,138
10% CONTINGENCIES		66,674
DFM @ 5.67%		41,584
TOTAL		$775,000

TABLE THREE
FULL BUILD-OUT PRELIMINARY COST ESTIMATES

Engineering	
Grading & Dirt Work Entrance Ramp	$39,600
Paving & Curb & Gutter Entrance Ramp	23,220
Internal Drainage	13,500
Wetlands Enhancement	36,000
Principal Spillway Modifications	27,720
Berm and Armoring	117,810
Parking Lot Paving/Curb/Gutter	42,660
Grading	74,250
TOTAL ENGINEERING	$374,760
Landscaping	
Regional Park Improvements:	
Turf	$62,000
Irrigation	50,000
Sidewalks	50,000
Trees and Shrubs	17,556
	$179,556
Neighborhood Park Improvements:	
Basketball Court (1)	15,000
Horseshoe Pits (4)	2,000
Picnic Tables (16)	5,600
Exercise/Jogging Trail	8,000
Ramada	35,000
Drinking Fountain	1,200
Volleyball Courts (4)	12,000
	$78,800
TOTAL LANDSCAPING	$258,356
10% Contingencies	63,312
DFM @ 5.67%	39,488
TOTAL	$735,916
GRAND TOTAL (Phase One and Full Build-Out)	$1,510,916

FEASIBILITY STUDY SUMMARY

As the initial phase of the Mariposa Basin Master Plan process, a feasibility study was performed to determine if the development of the park was a cost effective and prudent undertaking by the City of Albuquerque. The study was completed in March of 1989 and approved by the City of Albuquerque's Parks and Recreation and Public Works Department and the Albuquerque Metropolitan Arroyo Flood Control Association (AMAFCA). The following is a summary of this study and its results.

The Mariposa Basin collects and stores stormwater runoff for slow release from approximately 21.34 square miles of mesa land. Development is anticipated on 16.29 square miles and the balance, 5.05 square miles, will be preserved as open space.

In order to assess the feasibility of developing a regional athletic complex within the Mariposa Basin flood control facility, detailed analysis of the watershed, conveyance system channels, and the Basin were performed. The analyses focused upon the adequacy of the existing facilities to meet their flood control requirements (under existing and developed conditions), and alternative improvement to the watershed to enhance the effectiveness of the flood control facilities. The Basin handles storm water runoff from the Mariposa and La Boca Negra Channels along with the runoff from the Riverview development.

As a part of this study, numerous site visits and field analyses were performed in order to completely and accurately understand the complex nature of the Mariposa Basin Watershed. Utilizing information gained through field surveys, topographic maps, soil surveys, and ownership maps, the watershed was divided into 61 sub-basins for use in computer modeling the potential runoff from the watershed. Watershed management improvements were recommended following a detailed physical analysis of the City-owned portion of the watershed, and were then incorporated into the model in order to test their effectiveness. The results of this analysis is a complete understanding of the Mariposa Basin Watershed, its present condition, buildout condition, and the impacts of watershed management techniques upon the function of the watershed.

The findings of this study concluded that the development of a regional athletic complex within the Mariposa Basin flood control facility is feasible and cost effective for the City of Albuquerque provided that specific improvements are made. If the improvements to the

watershed and the Basin itself are made, there will be approximately 27 acres of land available for Park development. A very conservative estimate for the flood control improvement costs for these 27 acres of developable park land is less than $9,000.00 an acre.

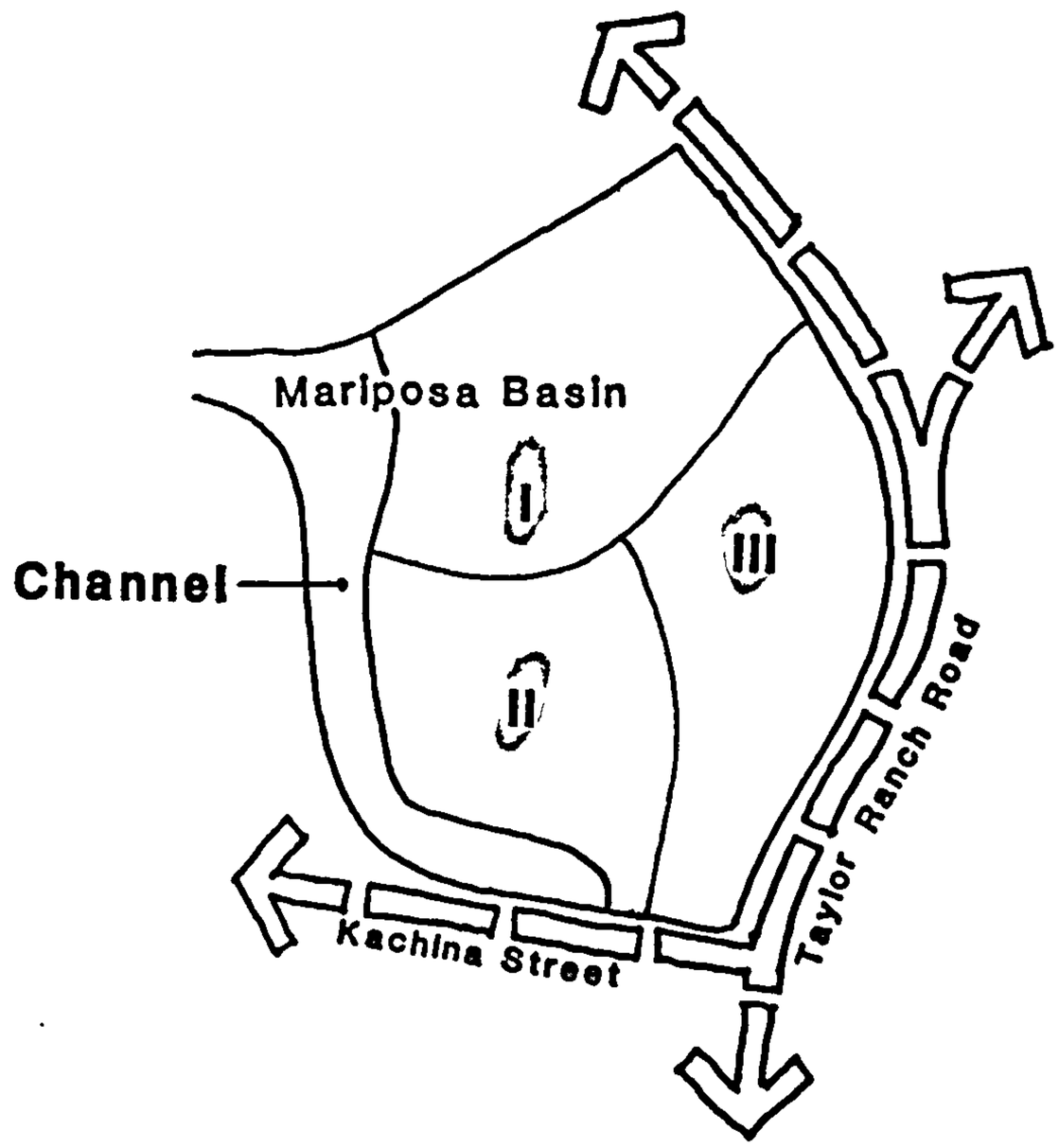
- The improvements recommended for the City-owned lands within the watershed are small environmentally-sensitive structures that can be developed for low cost, low maintenance provide protection to sensitive archaeological sites, and reduce the runoff from these lands. The recommended improvements within the basin call for the construction of three earthen berms which could effectively control the runoff from a 10-year storm or less without any water reaching the developed fields. The berms will be designed so that when stormwater from larger storms gets onto the fields, it will be removed through access points within the berms in less than 24 hours, thus causing no permanent or major damage to the fields.

Flooding and Evacuation

The proposed improvements will be built within the basin and as a result will be subject to inundation. In order to reduce the frequency of inundation and thus the damages to the proposed improvements, low levees will be constructed within the basin which will direct run off from minor storms (up to the 10-year frequency). In addition, these levees will allow for sequential inundation of parts of the basin to further reduce the flood risk to some areas.

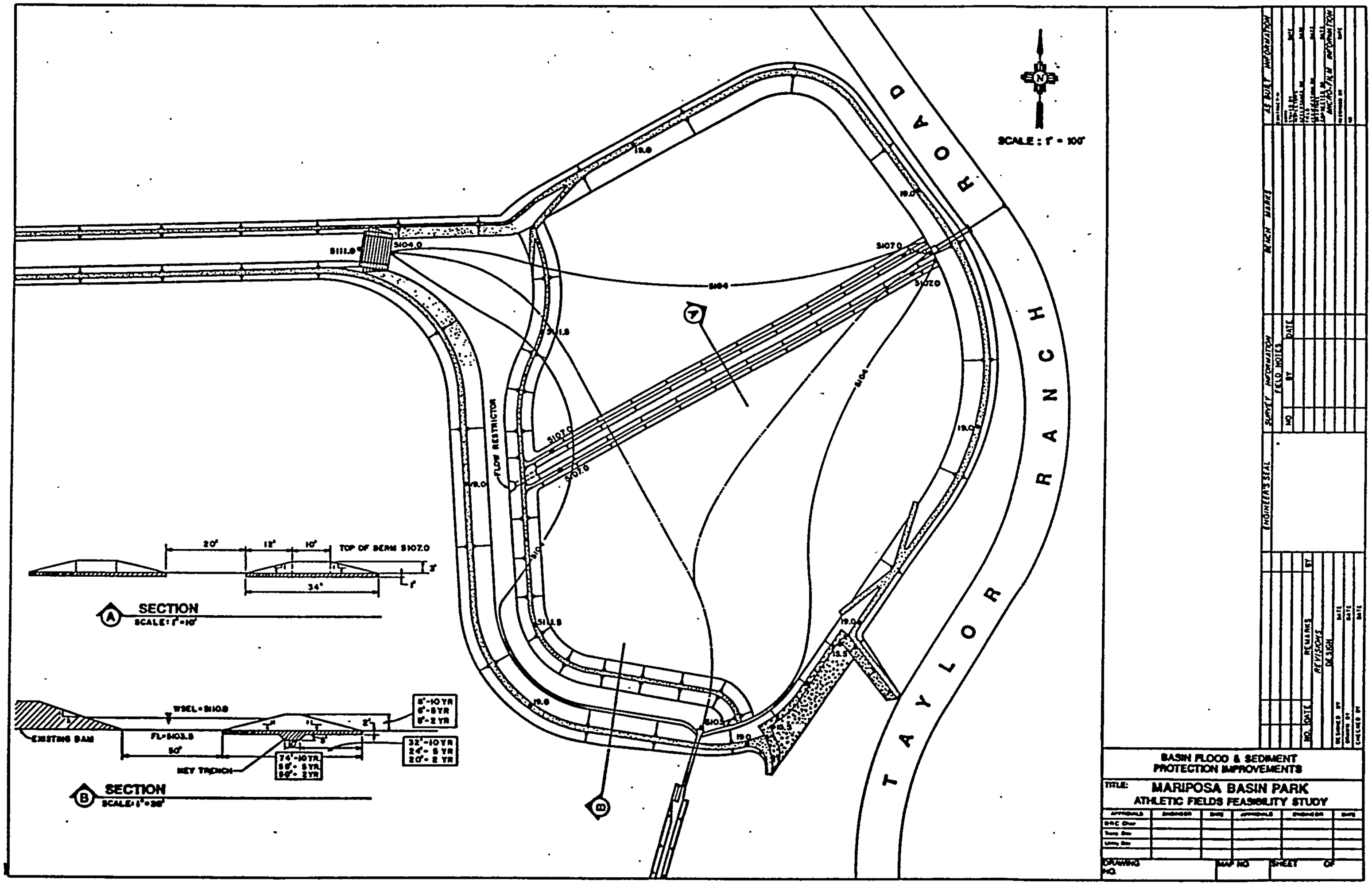
The proposed improvements include play areas, playground equipment, and parking. Concern has been raised about the potential threat to people caused by inundation of the improvements. In response, the timing of the inundation in the 100-year basin design flood has been investigated.

Studies of the basin with improvements proposed in the Master Plan in place indicate that from the time runoff first enters the basin, a period of at least 65 minutes elapses prior to any improved areas beginning to receive water. An additional 38 minutes elapses before water would enter the second area (II) in the flooding sequence. It takes almost seven hours for the basin to completely fill. Assuming two exit lanes from the basin, cars can leave the basin at a rate of 2000 cars per hour. Parking spaces for less than 400 cars are currently proposed.



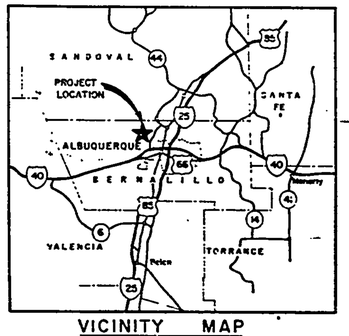
SEQUENTIAL FLOODING AREAS

Alarms and warning systems have been discussed, but no conclusions have been reached at this time regarding their use or implementation.



FINAL DRAINAGE IMPROVEMENT PLAN

ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY



VICINITY MAP

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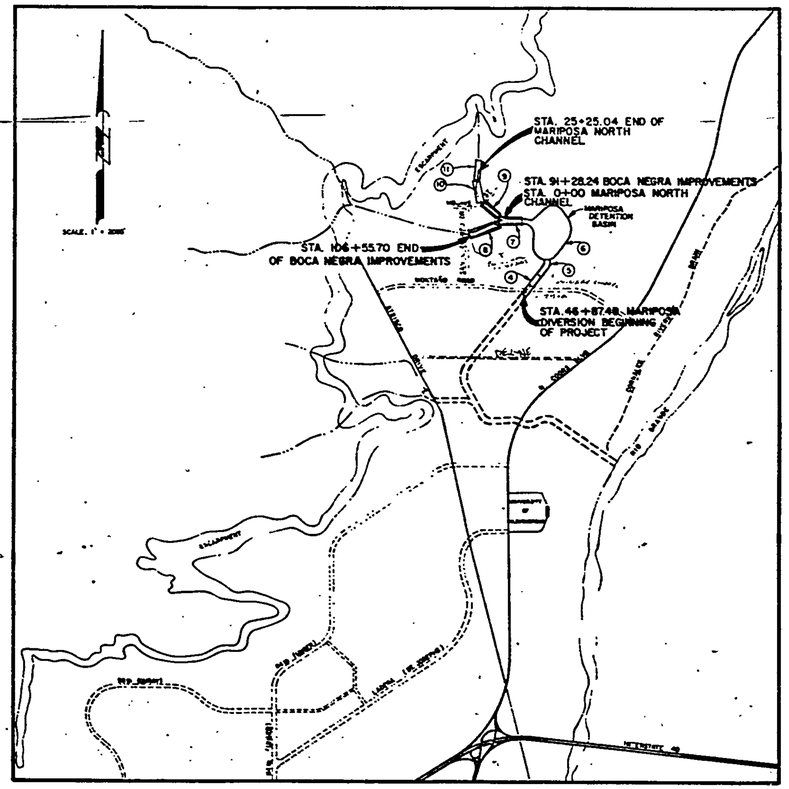

INDEX

SHEET NO.	DESCRIPTION
1.	COVER SHEET & INDEX
1A	HYDROLOGIC DATA
1B	HYDROLOGIC DATA
2.	HYDROLOGIC DATA
3.	GENERAL NOTES & LEGEND
	PLAN & PROFILE - MARIPOSA DIVERSION
4.	B.O.P. 46+87.48 to 60+00
5.	60+00 to 66+59.26
6-6A & 6B	DETENTION BASIN & SPILLWAY & PROFILE OF DETENTION BASIN
	PLAN & PROFILE — BOCA NEGRA
7.	85+60 to 97+00
8.	97+00 to 106+55.70
	PLAN & PROFILE - MARIPOSA NORTH CHANNEL
9.	0+00 to 9+16.93
10.	9+16.93 to 23+00
11.	E.O.P. 23+00 to 25+25.04
12-14.	CHANNEL SECTIONS & DETAILS
14A	RUNDOWN DETAIL
15.	4.5' DROP STRUCTURE
16.	7' DROP STRUCTURE
17.	MONTANO ROAD CROSSING
18-31.	CHANNEL CROSS SECTIONS
32.	KACHINA STREET UTILITIES

RECORD DRAWINGS
8-83

1	2	3	4	5	6	7	8	9	10
0	3	0	0	2	0	1	3	3	

PHASE 2 MARIPOSA DIVERSION, BOCA NEGRA IMPROVEMENTS AND DETENTION BASIN

DENNEY-GROSS & ASSOCIATES, INC.
CONSULTING ENGINEERS
ALBUQUERQUE, NEW MEXICO

D 24 C 20 B 16 A 12
CITY OF ALBUQUERQUE
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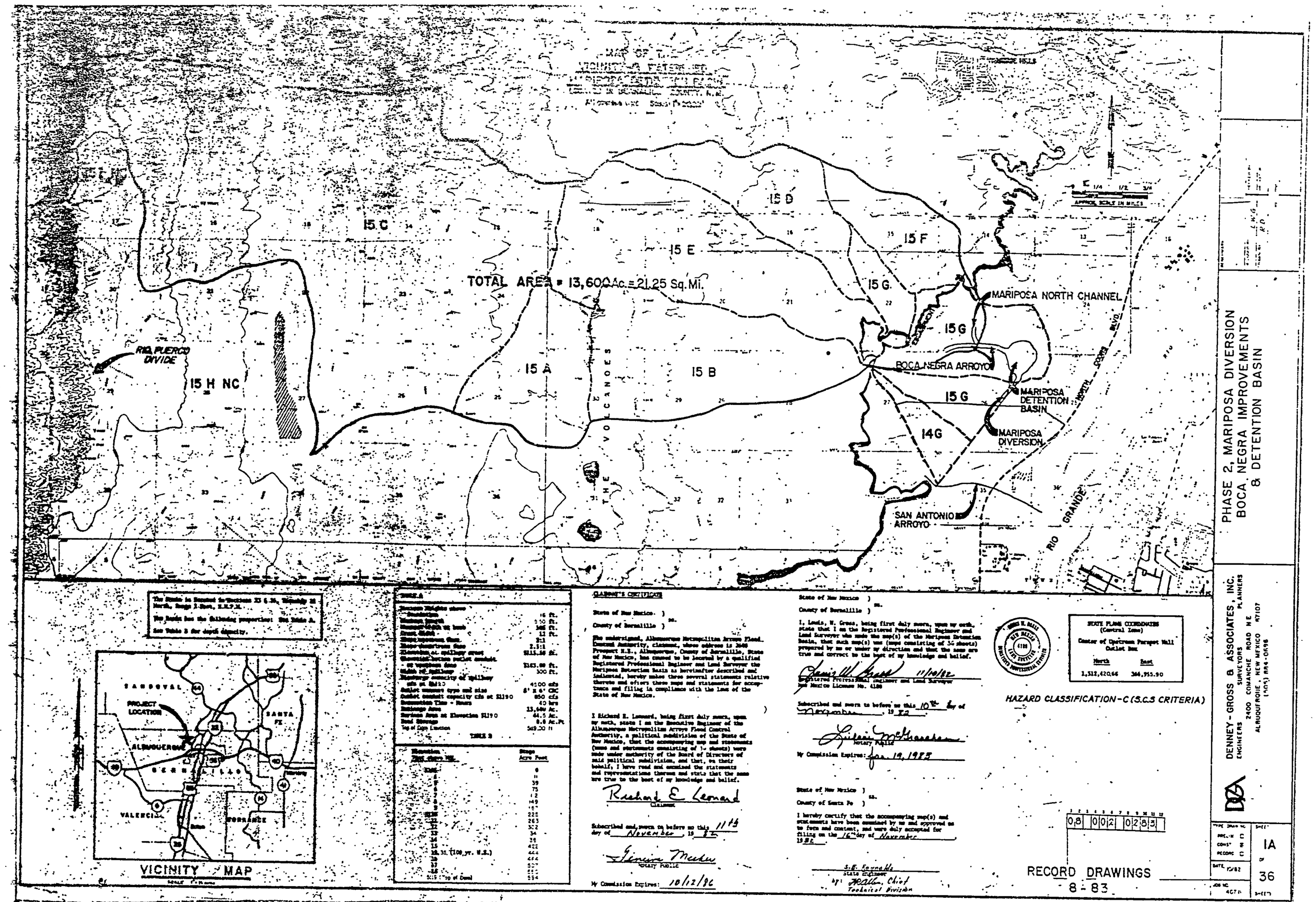
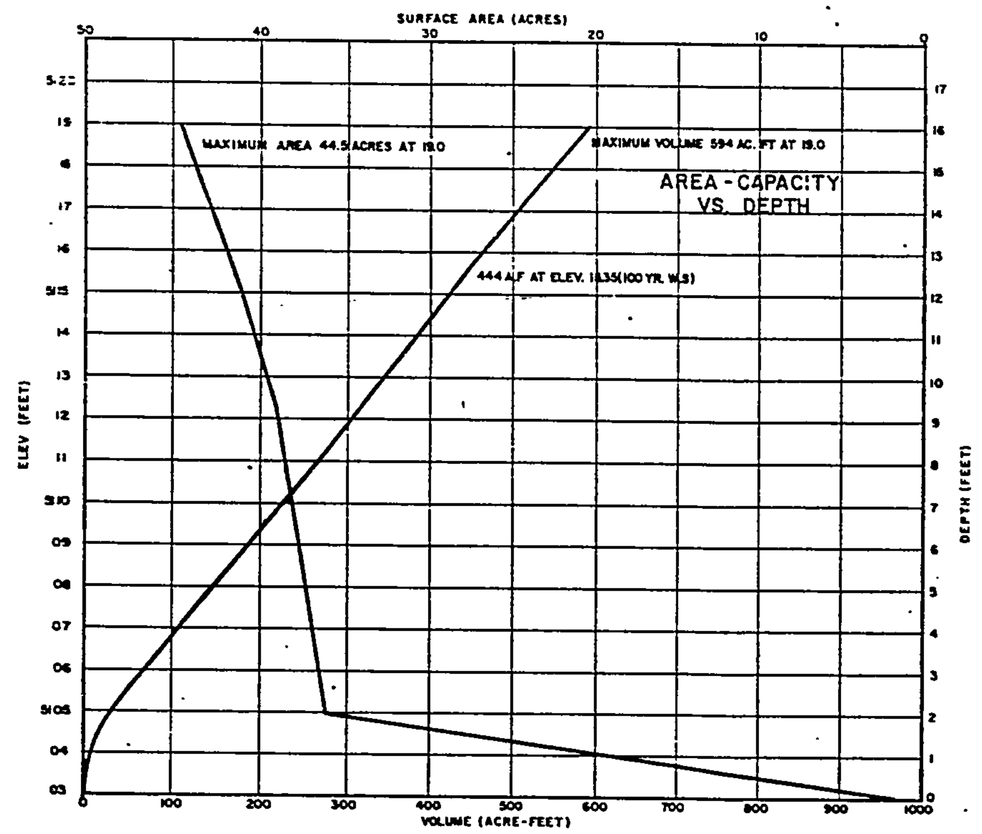

15 C
15 D
15 E
15 F
15 G
TOTAL AREA = 13,600 Ac. = 21.25 Sq. Mi.
MARIPOSA NORTH CHANNEL
15 G
BOCA NEGRA ARROYO
MARIPOSA DETENTION BASIN
MARIPOSA DIVERSION
15 G
14G
15 A
15 B
15 H NC
RIO PUERCO DIVIDE
VOLCANOES
SAN ANTONIO ARROYO
RIO GRANDE
NORTH SOURCE BLVD.
APPROX. SCALE IN MILES
PHASE 2, MARIPOSA DIVERSION
BOCA NEGRA IMPROVEMENTS
& DETENTION BASIN
DENNEY - GROSS & ASSOCIATES, INC.
ENGINEERS SURVEYORS PLANNERS
2400 COMANCHE ROAD N.E.
ALBUQUERQUE, NEW MEXICO 87107
(505) 884-0696
SANDOVAL
PROJECT LOCATION
ALBUQUERQUE
SANTA FE
BERNALILLO
VALENCIA
TORRANCE
VICINITY MAP
SCALE 1" = 16 MILES
TABLE A
TABLE B
Elevation
Stage
Acre Feet
CLAIMANT'S CERTIFICATE
State of New Mexico)
County of Bernalillo)
Richard E. Leonard
Chairman
Subscribed and sworn to before me this 11th day of November, 19 82
Notary Public
My Commission Expires: 10/12/86
State of New Mexico)
County of Bernalillo)
Registered Professional Engineer and Land Surveyor
New Mexico License No. 4188
Subscribed and sworn to before me this 10th day of November, 19 82
Notary Public
My Commission Expires: Jan. 14, 1985
State of New Mexico)
County of Santa Fe)
S.E. Reynolds
State Engineer
by: Chief
Technical Division
STATE PLANE COORDINATES
(Central Zone)
Center of Upstream Parapet Wall
Outlet Box
North
East
1,512,420.66
366,955.90
HAZARD CLASSIFICATION - C (S.C.S CRITERIA)
0 8 0 0 2 0 2 8 3
RECORD DRAWINGS
8-83
IA
36
D 24
C 20
B 16
A 12
CITY OF ALBUQUERQUE
C
D

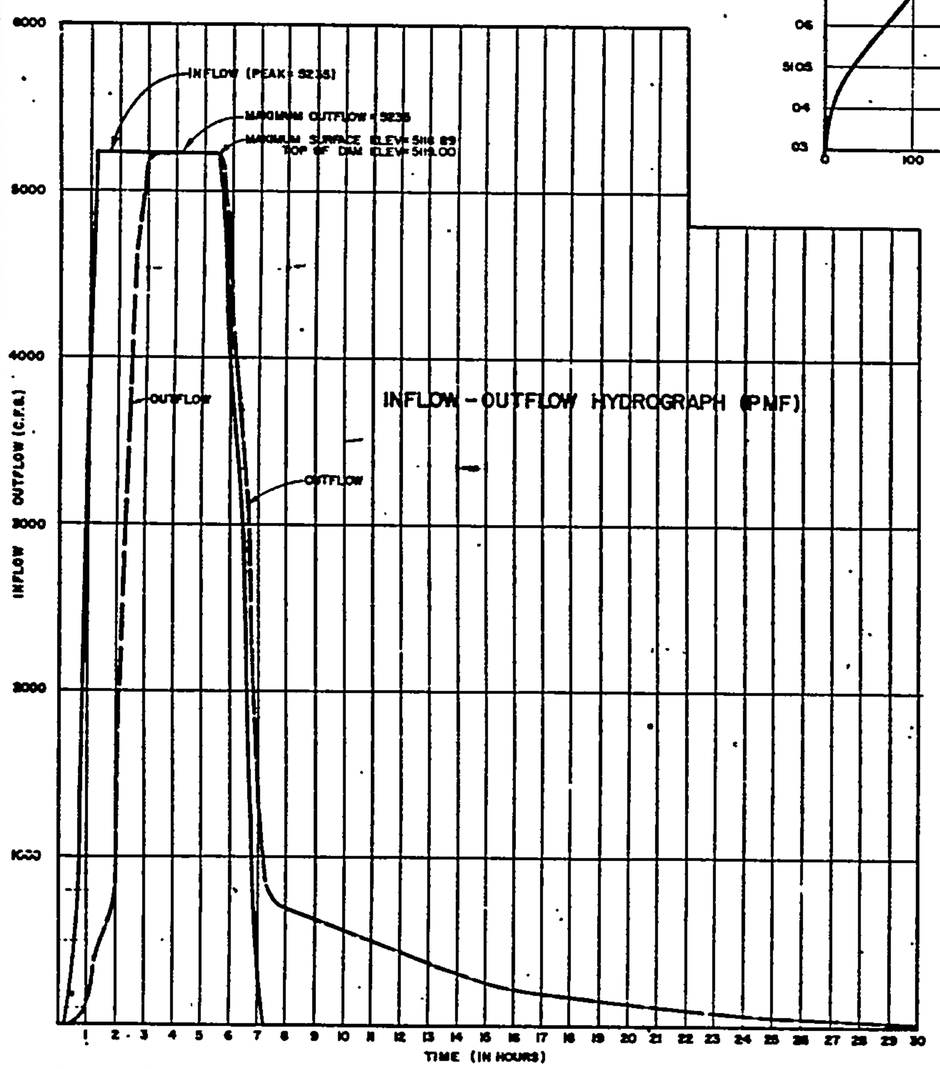


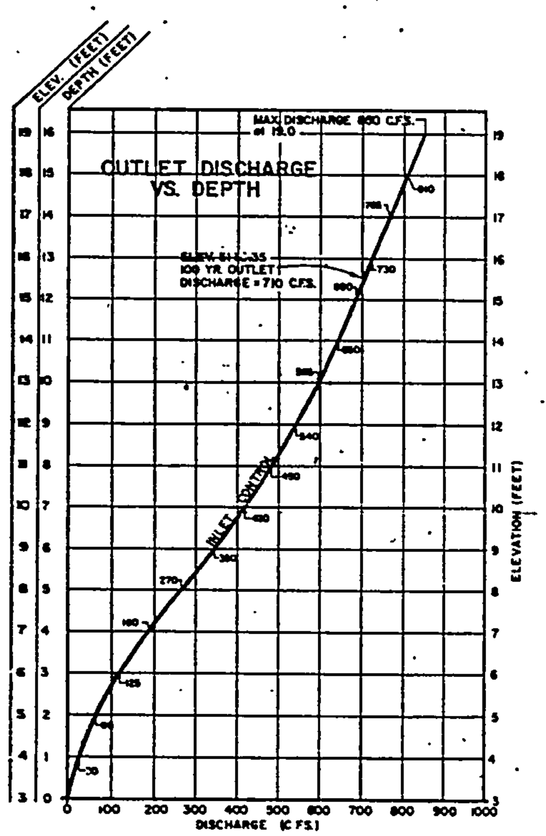
REFERENCES

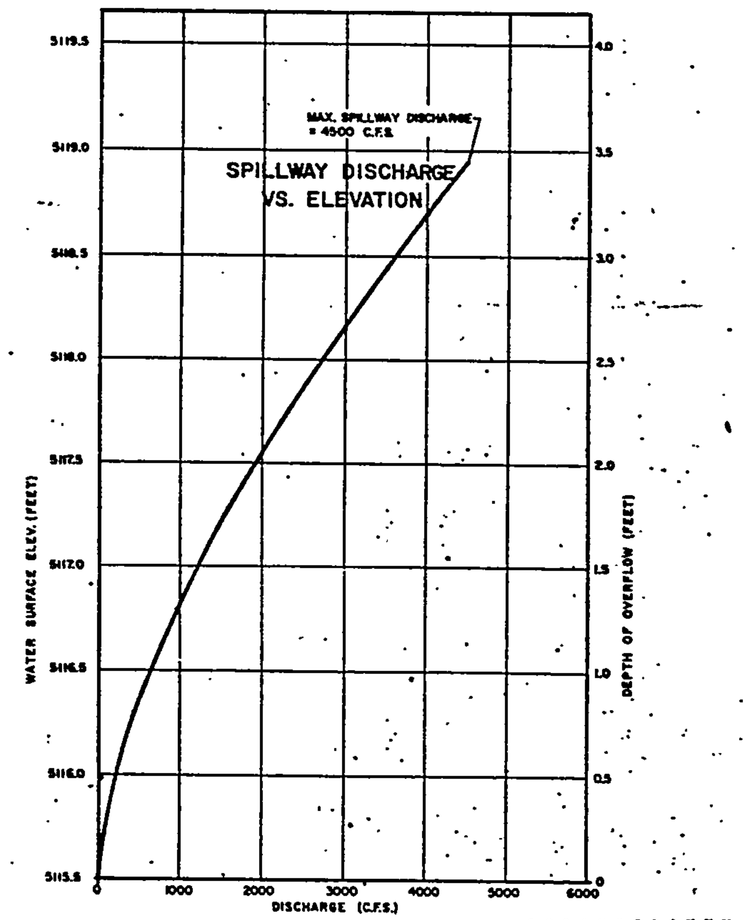
Drainage Management Plan Western Albuquerque Metropolitan Area.

Design Report (2 parts), Phase 2, Mariposa Diversion, Boca Negra Improvements and Detention Basin, Denney-Gross and Associates, updated.

Subsurface Exploration and Geotechnical Report - Mariposa San Antonio. Boca Negra Arroyo and Detention Facility, Jan. 28, 1980. Sargent, Hauskins and Beckwith, Job No. E 79-1111.







Warning Note: Peak flow for PMF is 34,843 cfs. However, the Boca Negra Channel between approximately Sta. 100 to 108 has a design capacity for only 5235 cfs. Consequently, by design, only 5235 cfs will flow into the Mariposa Detention Basin. Flows exceeding 5235 cfs will by-pass the Basin to the South in the historic flow path. Elevation of Channel dikes between approximate Sta. 100 to 108 should not be raised without a complete reanalysis of hydrology and hydraulics. For example, the emergency spillway of the Detention Basin, is designed for only 4500 cfs.

Note: Outlet Discharge taken from F.H.W.A. "Hydraulic Charts for the Selection of Highway Culverts" Hydraulic Engineering Circular No. 5 Chart No. 1 Page 5-21.

Discharge Computations: See Sheet 2

RECORD DRAWINGS
8—83

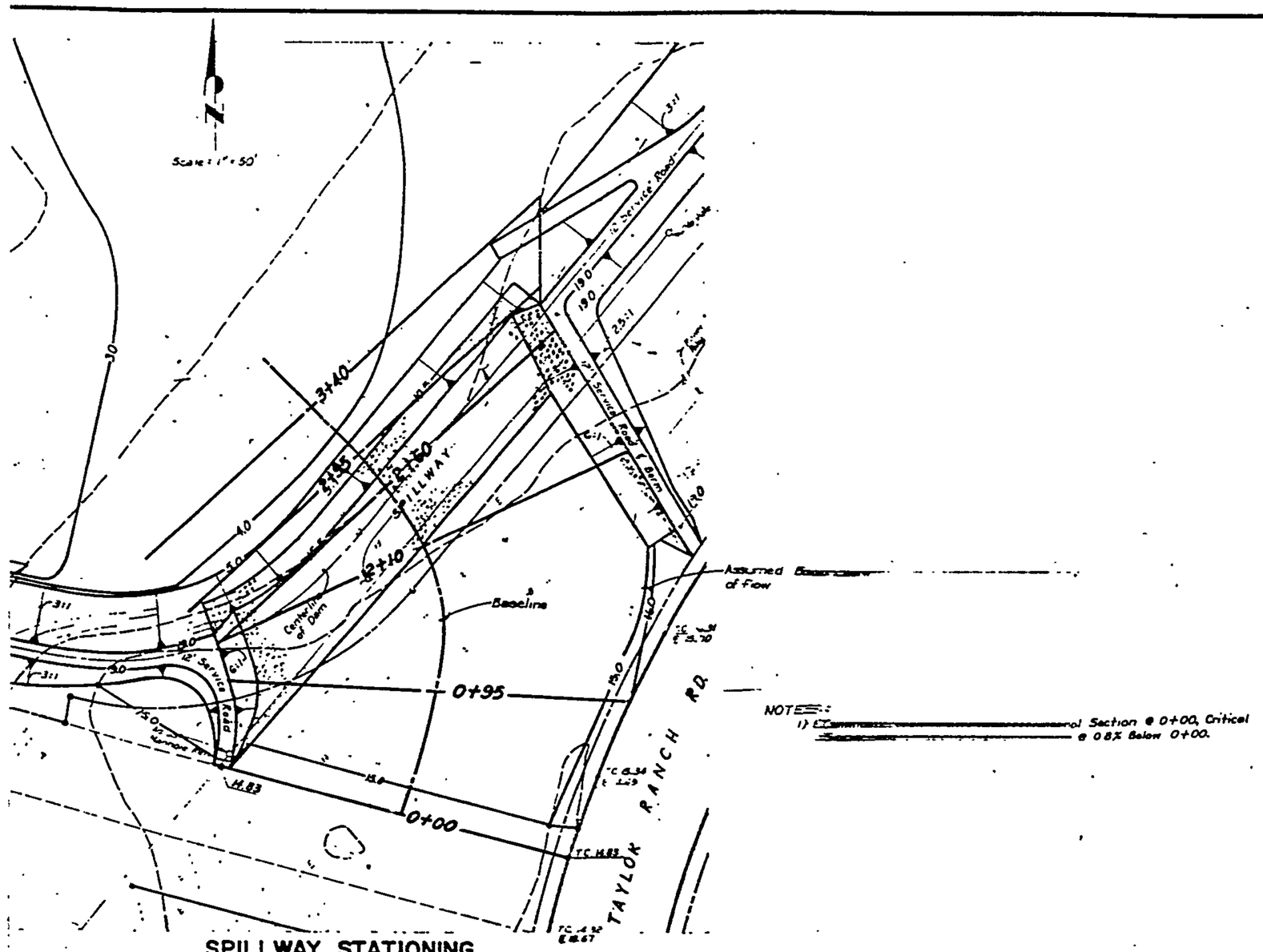
PHASE 2, MARIPOSA DIVERSION
BOCA NEGRA IMPROVEMENTS
& DETENTION BASIN
HYDROLOGIC DATA

DENNEY - GROSS & ASSOCIATES, INC.
ENGINEERS SURVEYORS PLANNERS
2400 CONTRACTORS ROAD N.E.
ALBUQUERQUE, NEW MEXICO 87107
(505) 884-0486

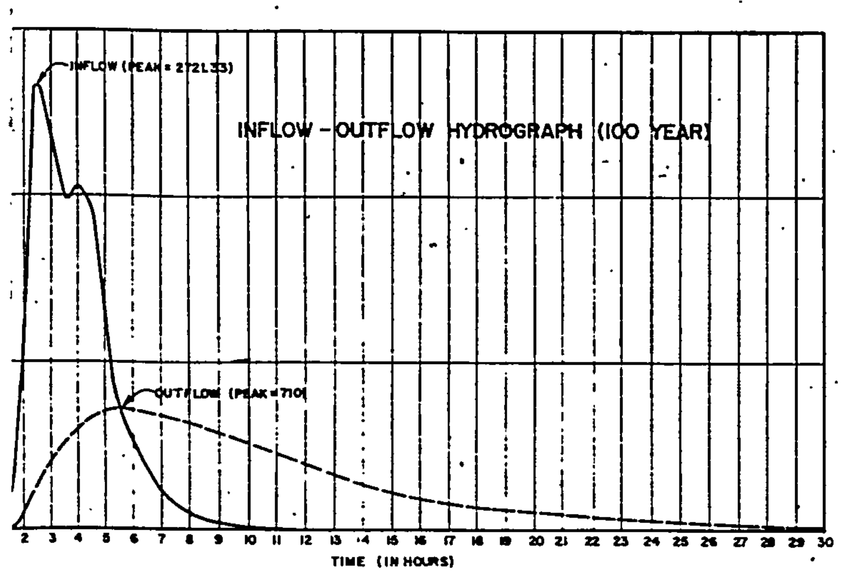
DRAWN BY: A.D.
CHECKED BY: L.W.G.
CHECKED BY: J.C.
DATE: 10/82
SHEET 1B OF 37

CITY OF ALBUQUERQUE

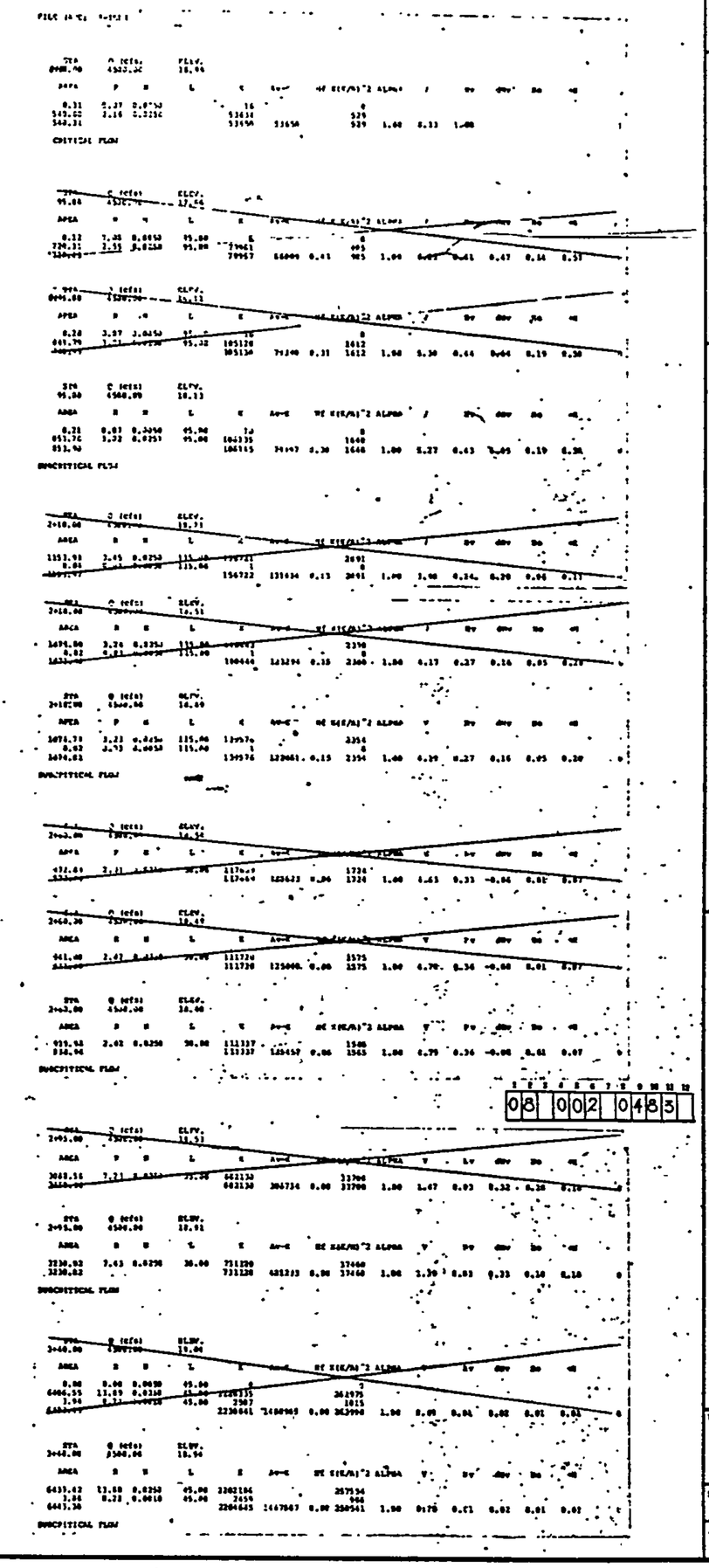
C D



SPILLWAY STATIONING



SPILLWAY
DISCHARGE COMPUTATIONS



RECORD DRAWINGS
8—83

PHASE 2, MARIPOSA DIVERSION
BOCA NEGRA IMPROVEMENTS
& DETENTION BASIN
HYDROLOGIC DATA

DENNEY - GROSS & ASSOCIATES, INC.
ENGINEERS SURVEYORS PLANNERS
2400 COMANCHE ROAD N.E.
ALBUQUERQUE, NEW MEXICO 87107
(505) 884-0888

DRAWN BY: G.A.
DESIGNED BY: L.W.G.
CHECKED BY: L.W.G.
CHECKED BY: J.C.

TYPE DRAWING: PRELIM. ☐ CONST. ☒ RECORD ☐
DATE: 10/82
JOB NO. 407 11
SHEET 2 OF 37 SHEETS

C 20 B 16 A 12

CITY OF ALBUQUERQUE

C

GENERAL NOTES

1. Existing profiles and grades shown may vary due to recent and current work done by others in the construction area. Quantities will be adjusted accordingly.

2. All existing utilities shown were taken from record drawings and are located as accurately as possible from information available. It will be the contractors responsibility to protect, maintain in service, and at points required, verify exact location of these utilities during construction operations of this project.

3. All construction signs that remain in place over 24 hours are to be mounted 7' (seven feet) high. All construction signs shall be furnished and installed by the contractor. No separate payment shall be made for this work.

4. The contractor shall maintain access to adjacent properties during construction.

5. The contractor shall confine all his activities within the construction limit and/or right-of-way as staked and preserve all existing vegetation on any private property. Parking of construction equipment shall not obstruct driveway openings & shall clear designated traffic lanes by 10' (ten feet).

6. The contractor is cautioned that the traffic must be carried through construction, except as otherwise noted.

7. All construction signing and barricading for all roadways, permissible detours, open excavations, and other incidental work the completion of this project shall be in accordance with the New Mexico Manual and Specifications for a Uniform System of Traffic Control Devices for Streets and Highways (Part VI 1978 Edition) and modifications thereto. All barricades shall be reflective orange and white.

8. Signing and barricading shall include adequate protection against open excavation and other hazards to pedestrian traffic.

9. The contractor shall be required to keep the public apprised, thru the local news media for the life of this project, of the various construction operations involving street or lane closures or any pertinent information relating to traffic movement.

10. Unless otherwise noted the latest edition of the New Mexico State Highway Department Standard Details shall apply.

11. Pavement replacement on Montano Road and Taylor Ranch Road shall be as per standard City of Albuquerque Drawing No. P-7-4, arterial and collector street section, or shall be replaced inkind per existing section, whichever is less.

12. The contractor shall comply with the following City of Albuquerque Local Environmental Ordinance:

Chapter 6 - Health, Safety and Sanitation	
Article I	Air Pollution Control
Article VI	Refuse Collection
Article VIII	Anti-Litter Ordinance
Article XVI	Joint Air Quality Control Board
Article XXII	Noise Control Ordinance

13. The road crossing at Montano will require that traffic be detoured as shown on the plans. The Contractor shall obtain any necessary permits from the City of Albuquerque. The contractor shall also erect and maintain all barricading as shown on Sheet 17 while traffic is being detoured.

14. All references to standard City of Albuquerque construction details refer to the City of Albuquerque Contract Documents for City-Wide Utilities and Cash Paving No. 31.

15. The limits of construction for the Montano Road crossing bid item shall be the road R/W lines in the North-South direction and the length of the detour in the East-West direction. The pavement cut shall be limited to a total width of 75 feet centered on the crossing structure.

16. Curb and Gutter replacement on Montano Road shall be per standard City of Albuquerque Drawing No. P-8-1, standard curb and gutter and median curb and gutter.

17. The contractor shall notify the appropriate utility company at 765-1234 prior to working in the vicinity of any existing utility lines.

LEGEND

- Existing Sanitary Sewer Line
- Existing Gas Line
- Existing Overhead Power Line
- Existing Buried Power Line
- Right-of-Way Line
- Dry Rock Rip Rap (Class A)
- Gabions & Drop Structures or Wire Enclosed Rip Rap
- Cement Treated Base (CTB)
- Natural Ground
- Subbase
- Subgrade Preparation
- Concrete
- Base Course (Class I)

GABION DESIGNATIONS

CODE	SIZE	CAPACITY CU. YDS.
A	6' x 3' x 3'	2.0
B	9' x 3' x 3'	3.0
C	12' x 3' x 3'	4.0
D	6' x 3' x 1.5'	1.0
E	9' x 3' x 1.5'	1.5
F	12' x 3' x 1.5'	2.0
G	6' x 3' x 1'	0.66
H	9' x 3' x 1'	1.0
I	12' x 3' x 1'	1.33

0 0 0 2 0 5 8 3

RECORD DRAWINGS
8-83

BENCHMARK:

DESIGNED BY: C.R.B. CHECKED BY:
DRAWN BY: B.K. CHECKED BY:
REVISIONS

PHASE 2, MARIPOSA DIVERSION
BOCA NEGRA IMPROVEMENTS
& DETENTION BASIN
GENERAL NOTES & LEGEND

DENNEY-GROSS & ASSOCIATES, INC.
ENGINEERS SURVEYORS PLANNERS
2400 COMANCHE ROAD N.E.
ALBUQUERQUE, NEW MEXICO 87107
(505) 884-0696

TYPE DRAWING: PRELIM. ☐ FINAL ☐ RECORD ☐
DATE: 10/82
JOB NO. 407.11
SHEET 3 OF 37

C 20 B 16 A 12

CITY OF ALBUQUERQUE

C D

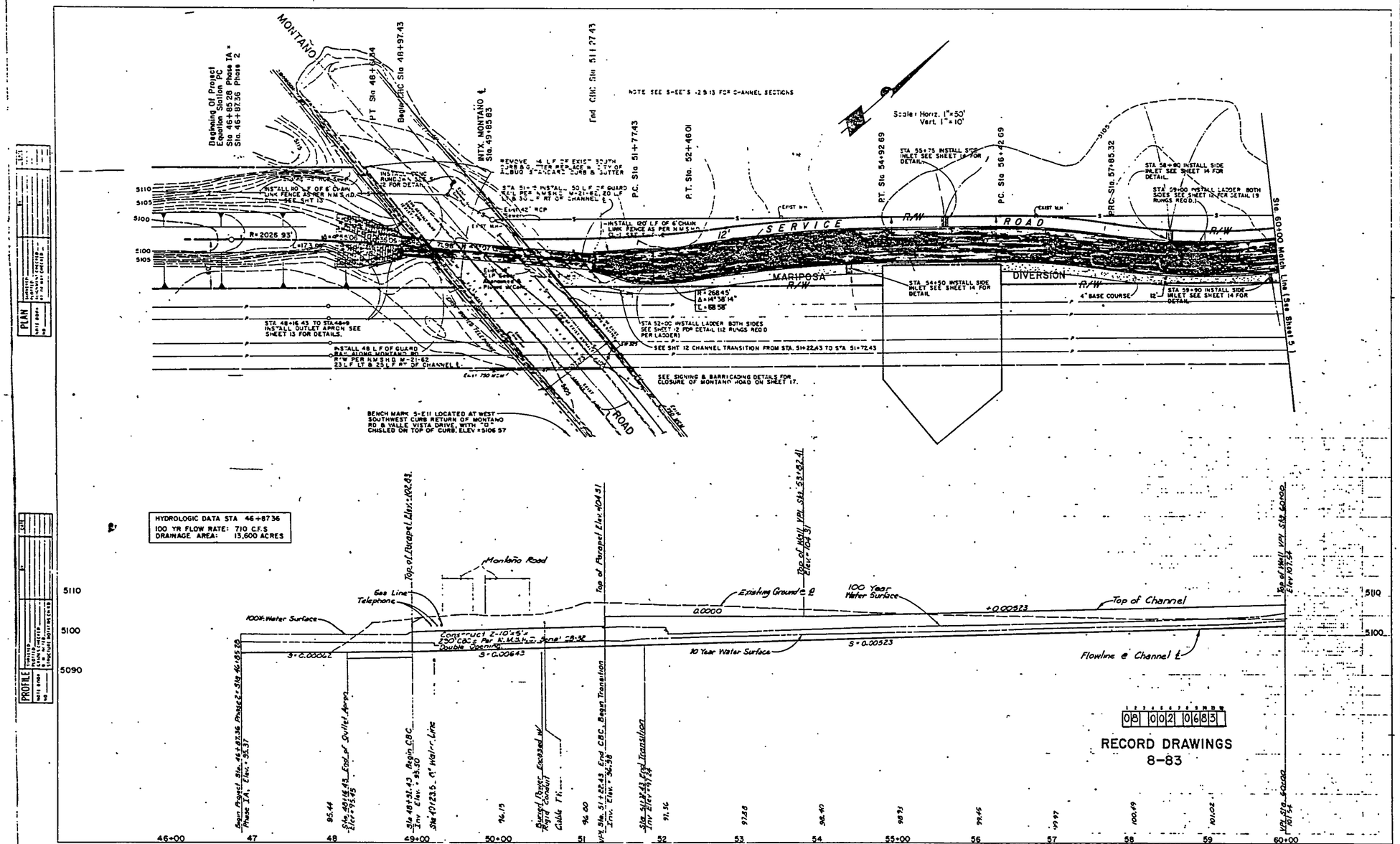


PLATE 1 SINGLE PLAN - PROFILE - DOTTED

DENNEY - GROSS & ASSOC., INC.
ENGINEERS SURVEYORS PLANNERS
2400 COMANCHE RD. N.E., ALBUQUERQUE, NEW MEX.

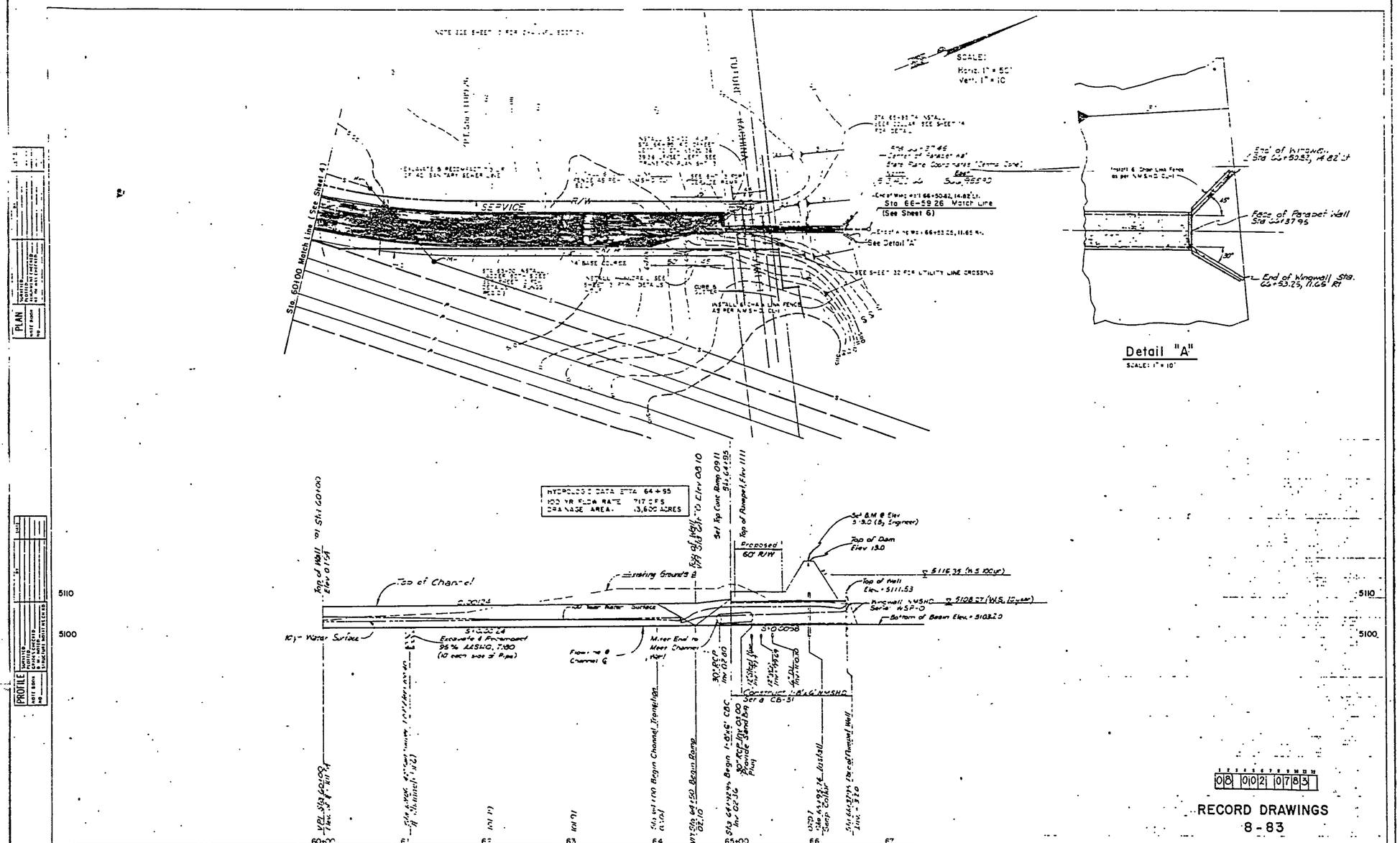
PHASE 2, MARIPOSA DIVERSION,
BOCA NEGRA IMPROVEMENTS &
DETENTION BASIN

Sheet 4 of 37

D 24 C 20 B 16 A 12

CITY OF ALBUQUERQUE

C



PLAN

PROFILE

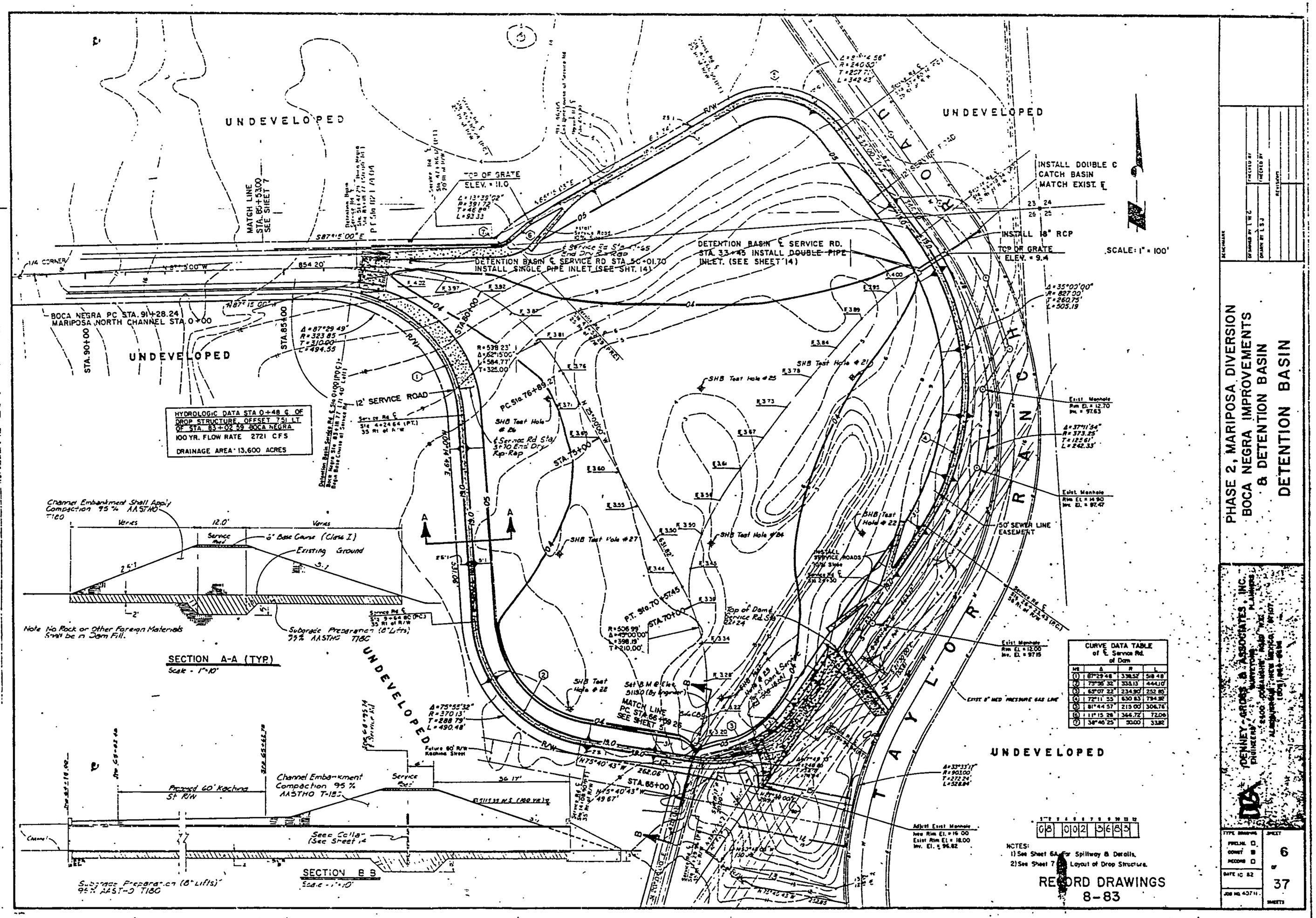
RECORD DRAWINGS
8-83

DENNEY-GROSS & ASSOC., INC.
ENGINEERS SURVEYORS PLANNERS
2400 COMANCHE RD. NE., ALBUQUERQUE, NEW MEX.

PHASE 2, MARIPOSA DIVERSION,
BOCA NEGRA IMPROVEMENTS &
DETENTION BASIN

Sheet 5 of 37

CITY OF ALBUQUERQUE



PHASE 2, MARIPOSA DIVERSION
BOCA NEGRA IMPROVEMENTS
& DETENTION BASIN
DETENTION BASIN

DENNEY-GROSS & ASSOCIATES, INC.
ENGINEERS · SURVEYORS · PLANNERS
8500 JEFFERSON NORTH · P.O. BOX 1293
ALBUQUERQUE, NEW MEXICO 87107
(505) 881-8586

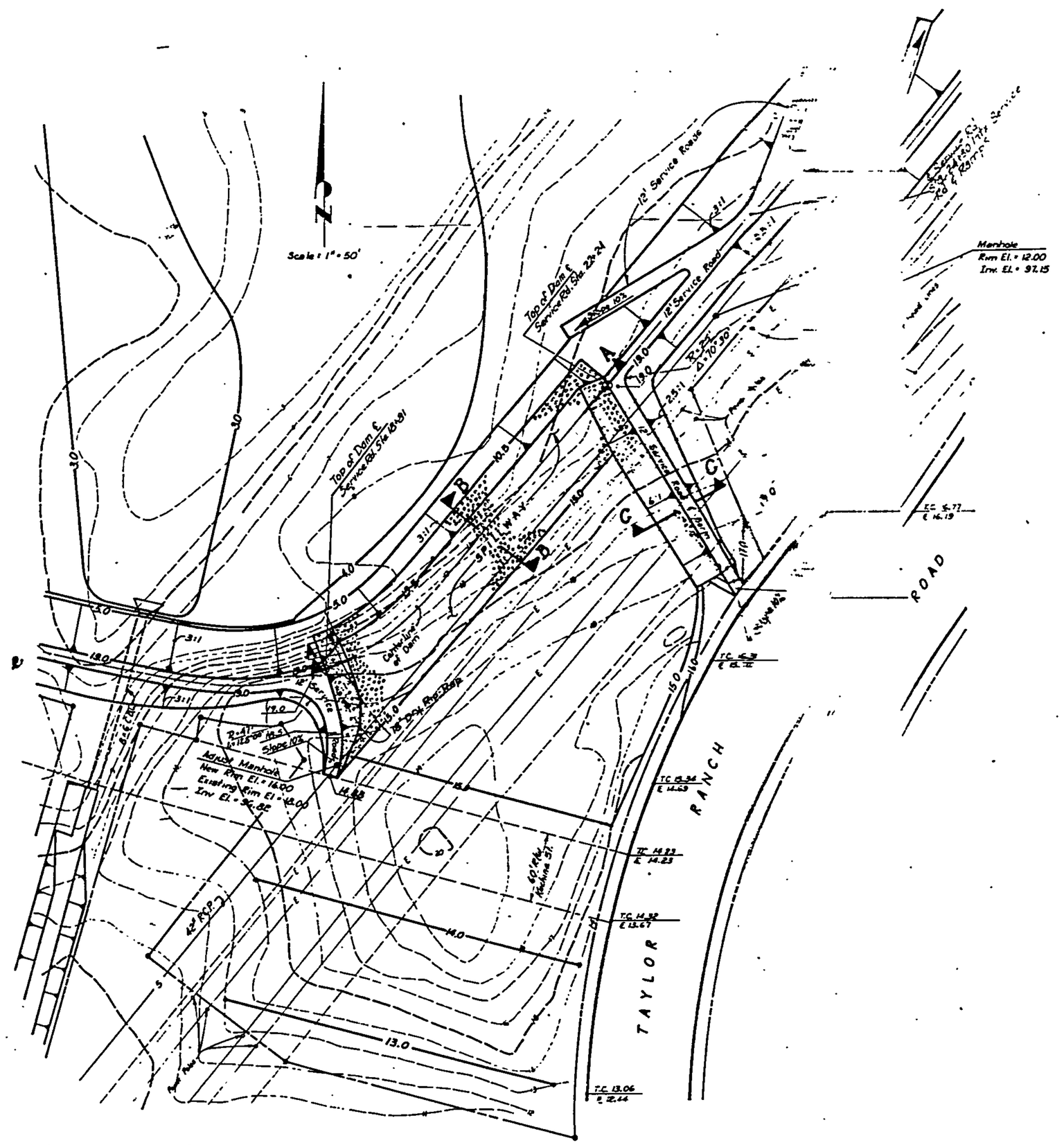
DESIGNED BY: L.W.C.
DRAWN BY: L.S.J.
CHECKED BY
CHECKED BY
REVISIONS

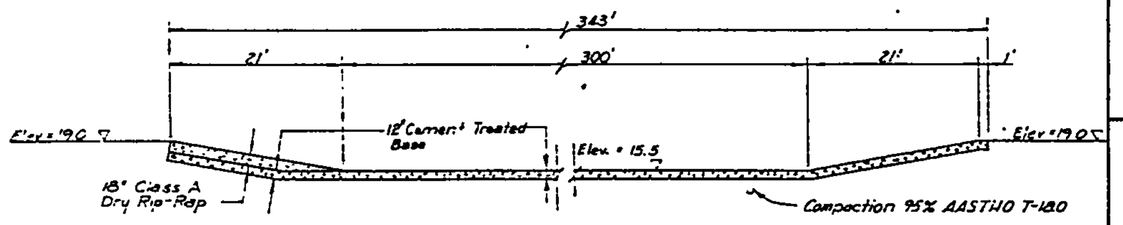
TYPE DRAWING: PRELIM. ☐ CONST. ☐ RECORD ☐
DATE: 10-82
JOB NO. 4071
SHEET 6 OF 37 SHEETS

D 24 C 20 B 16 A 12

CITY OF ALBUQUERQUE

C





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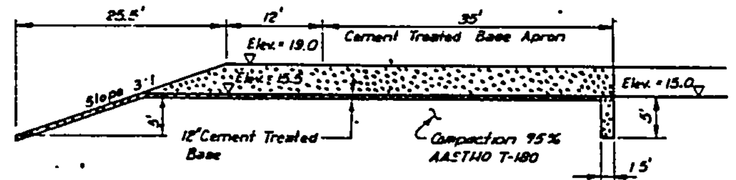

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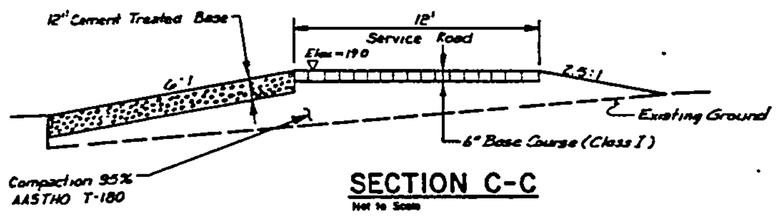

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RECORD DRAWINGS
8-83

BENCHMARK:

DESIGNED BY: L.W.B.	CHECKED BY:
DRAWN BY: G.A.	CHECKED BY:

REVISIONS

PHASE 2, MARIPOSA DIVERSION
BOCA NEGRA IMPROVEMENTS
& DETENTION BASIN
SPILLWAY

DENNEY-GROSS & ASSOCIATES, INC.
ENGINEERS SURVEYORS PLANNERS
2400 COMANCHE ROAD N.E.
ALBUQUERQUE, NEW MEXICO 87107
(505) 884-0888

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RECORD ☐	37
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JOB NO. 407.11	

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CITY OF ALBUQUERQUE

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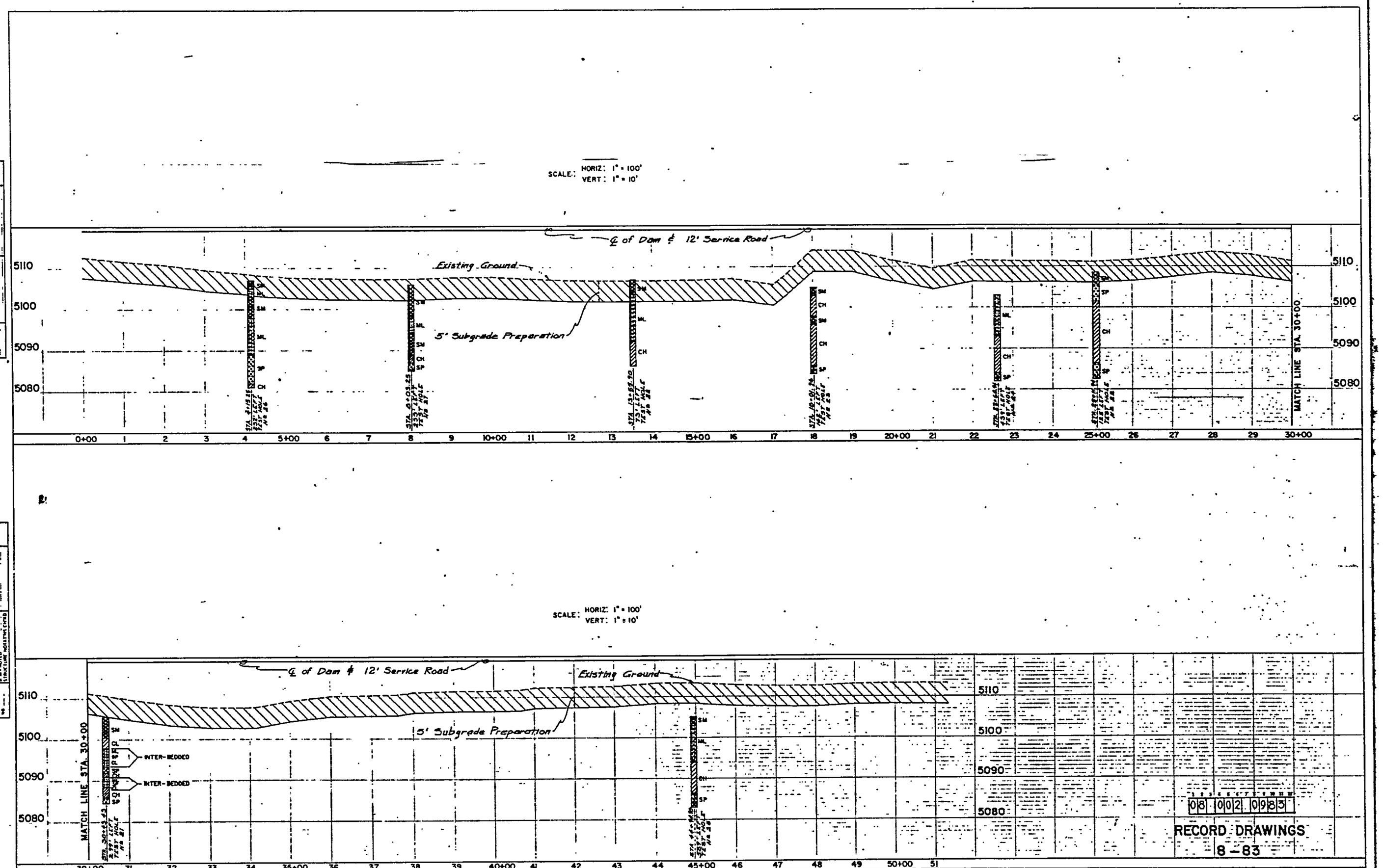


PLATE 2-DOUBLE PLAN AND PROFILE-FULL SHT

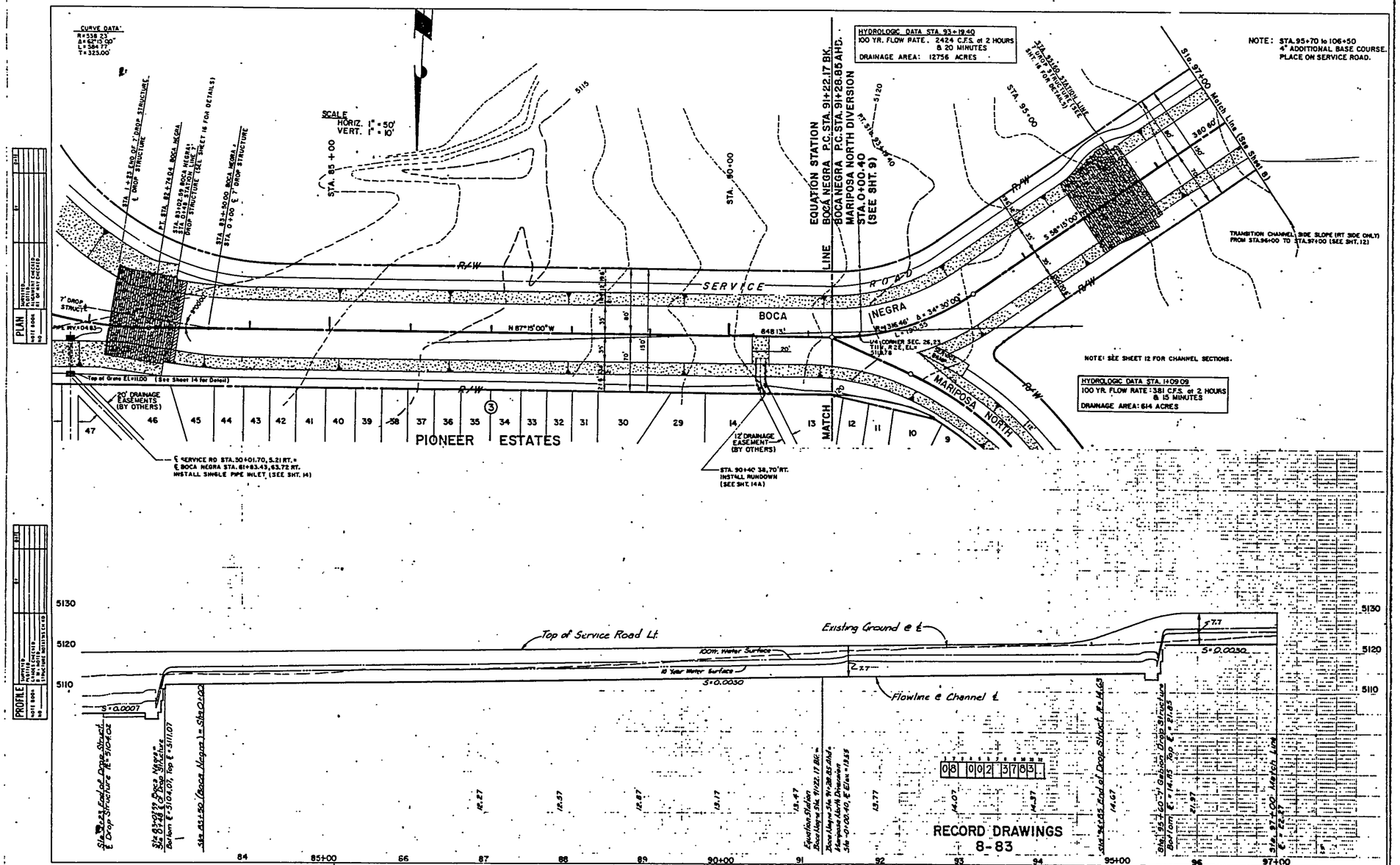
DENNEY-GROSS & ASSOC., INC.
ENGINEERS SURVEYORS PLANNERS
2-00 COMANCHE RD. N.E., ALBUQ., N.M. 87107

PHASE 2, MARIPOSA DIVERSION,
BOCA NEGRA IMPROVEMENTS &
DETENTION BASIN

Sheet 6-B of 37

D 24 C 20 B 16 A 12

CITY OF ALBUQUERQUE



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CITY OF ALBUQUERQUE

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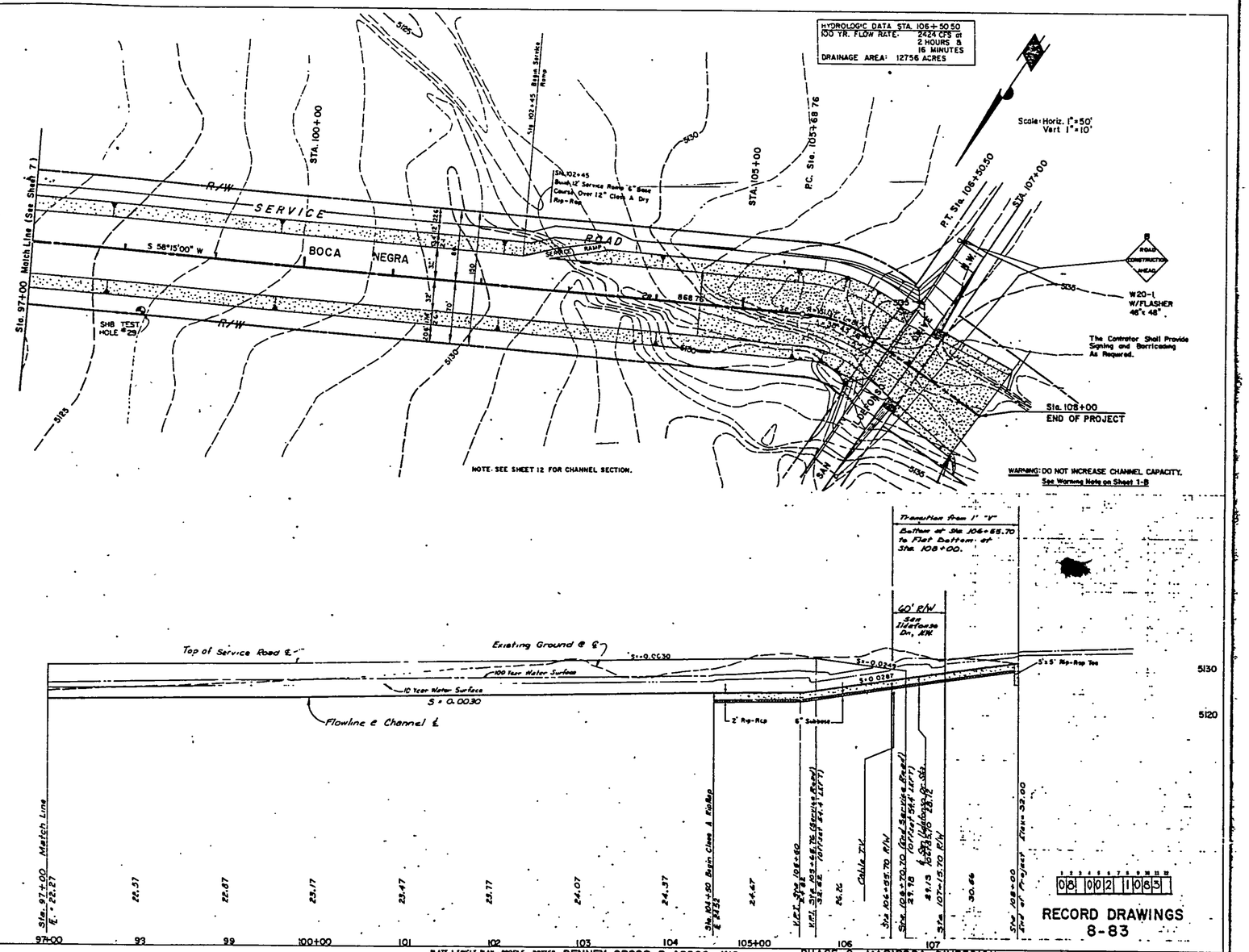
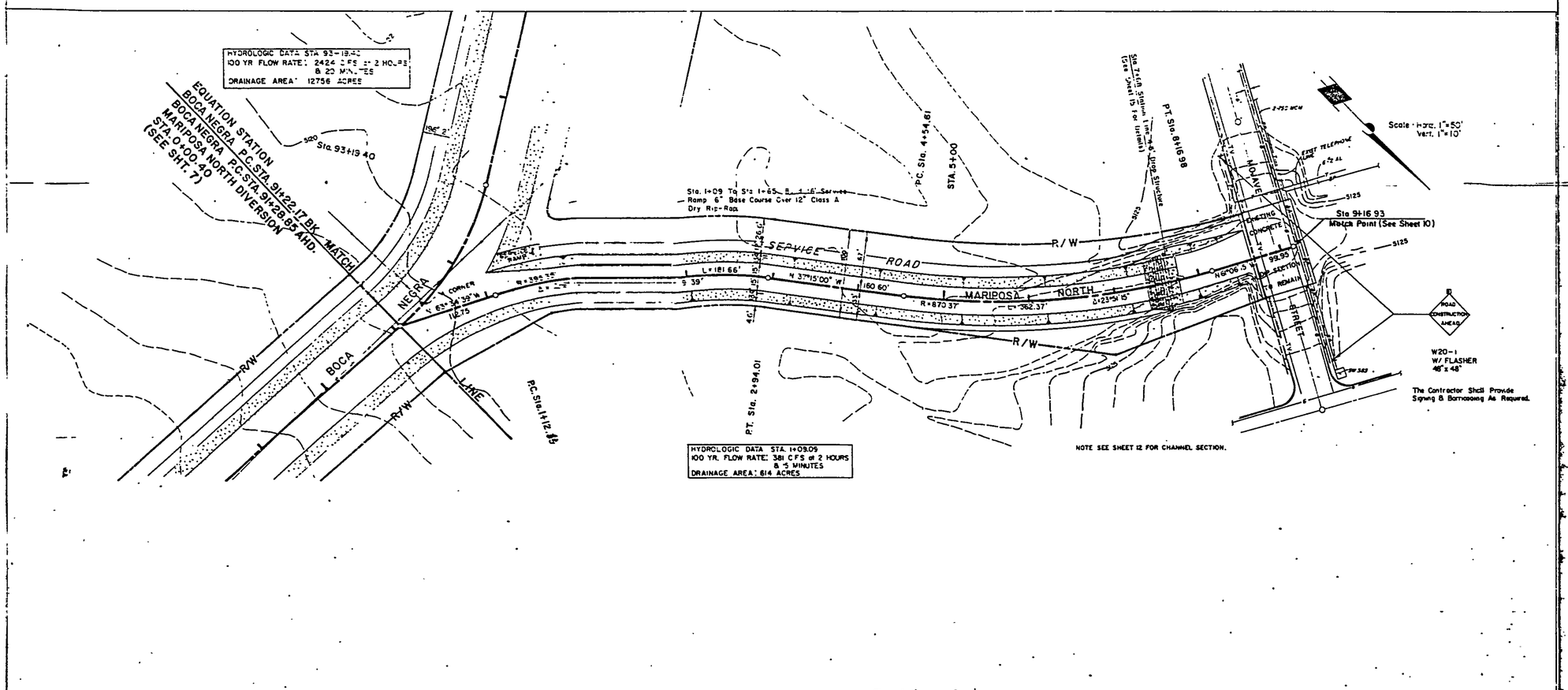
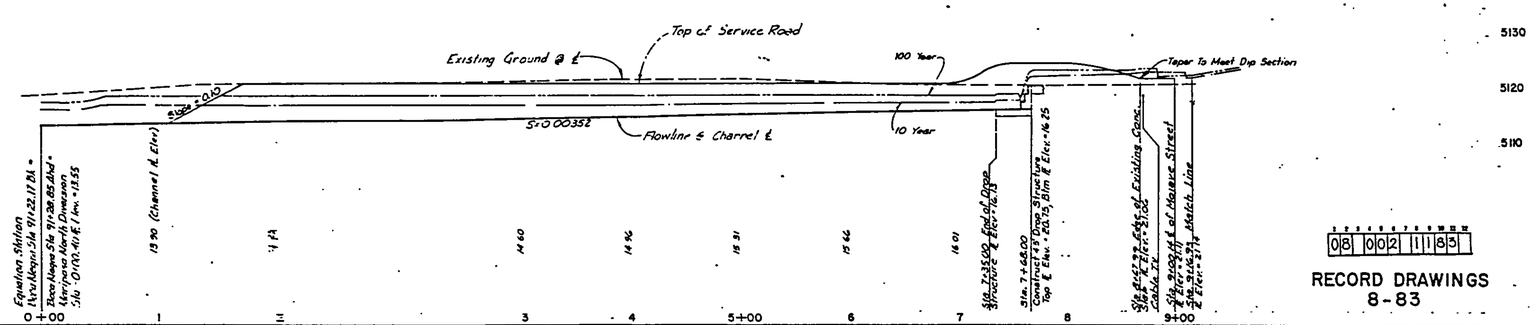


D C B A
24 20 16 12

CITY OF ALBUQUERQUE

C D





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RECORD DRAWINGS
8-83

PLATE 1 SINGLE PLAN - PROFILE - DOTTED
CHG 11 BY ING. 2, WHY NOT 1, 3, 4

DENNEY-GROSS & ASSOC., INC.
ENGINEERS SURVEYORS PLANNERS
2400 COMANCHE RD. N.E., ALBUQ. N.M. 87107

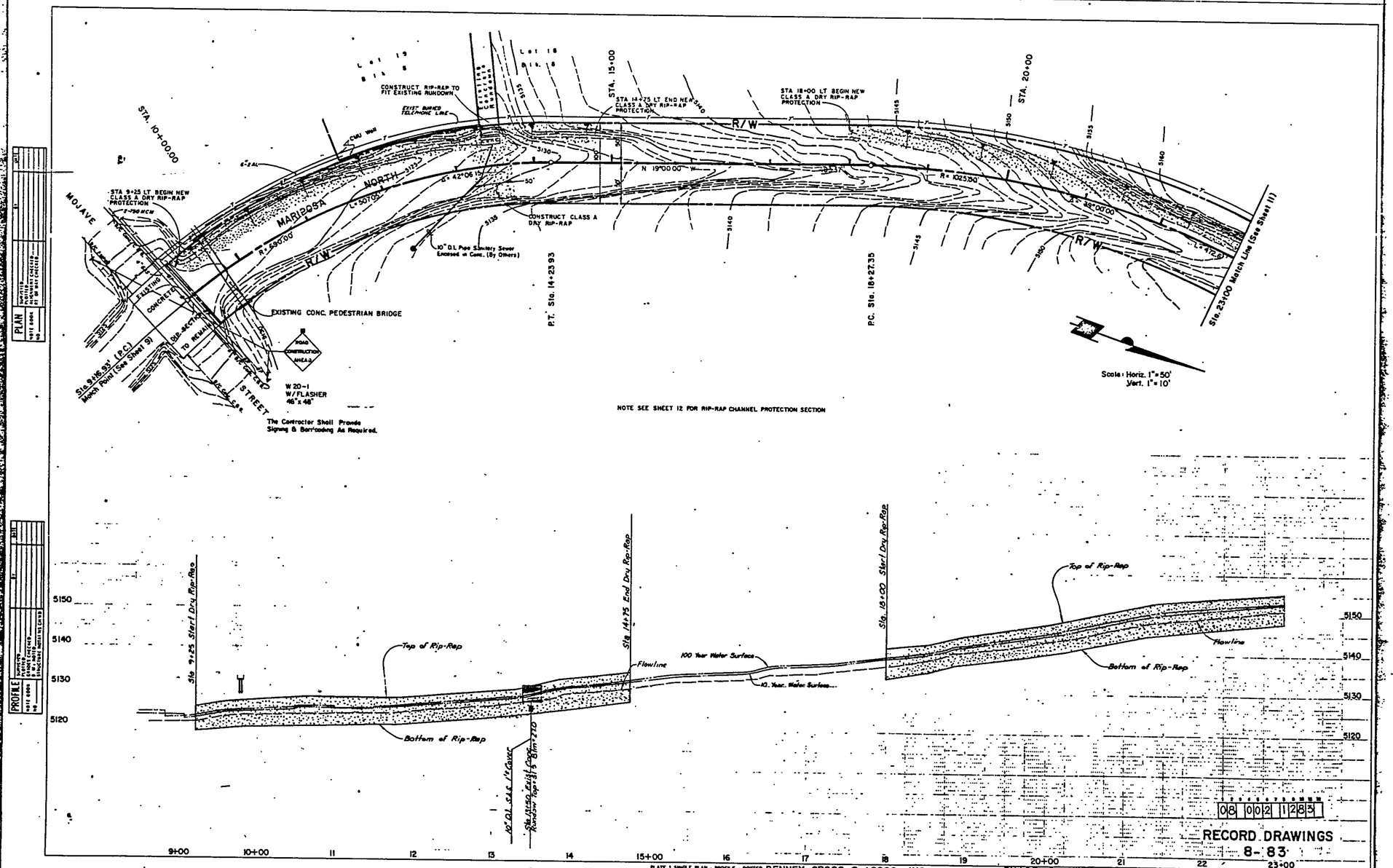
PHASE 2, MARIPOSA DIVERSION,
BOCA NEGRA IMPROVEMENTS &
DETENTION BASIN

Sheet 9 of 37

C 20 B 16 A 12

CITY OF ALBUQUERQUE

C



RECORD DRAWINGS
8-83

PLATE 1 SINGLE PLAN - PROFILE - DOTTED CHARLES SPRAYBERRY COMPANY MADE IN U.S.A.

DENNEY-GROSS & ASSOC., INC.
ENGINEERS SURVEYORS PLANNERS
2400 COMANCHE RD. NE, ALBUQ N.M. 87107

PHASE 2, MARIPOSA DIVERSION, BOCA NEGRA IMPROVEMENTS & DETENTION BASIN

Sheet 10 of 37

CITY OF ALBUQUERQUE

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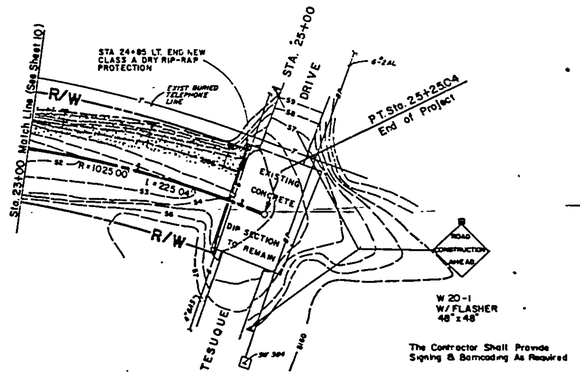


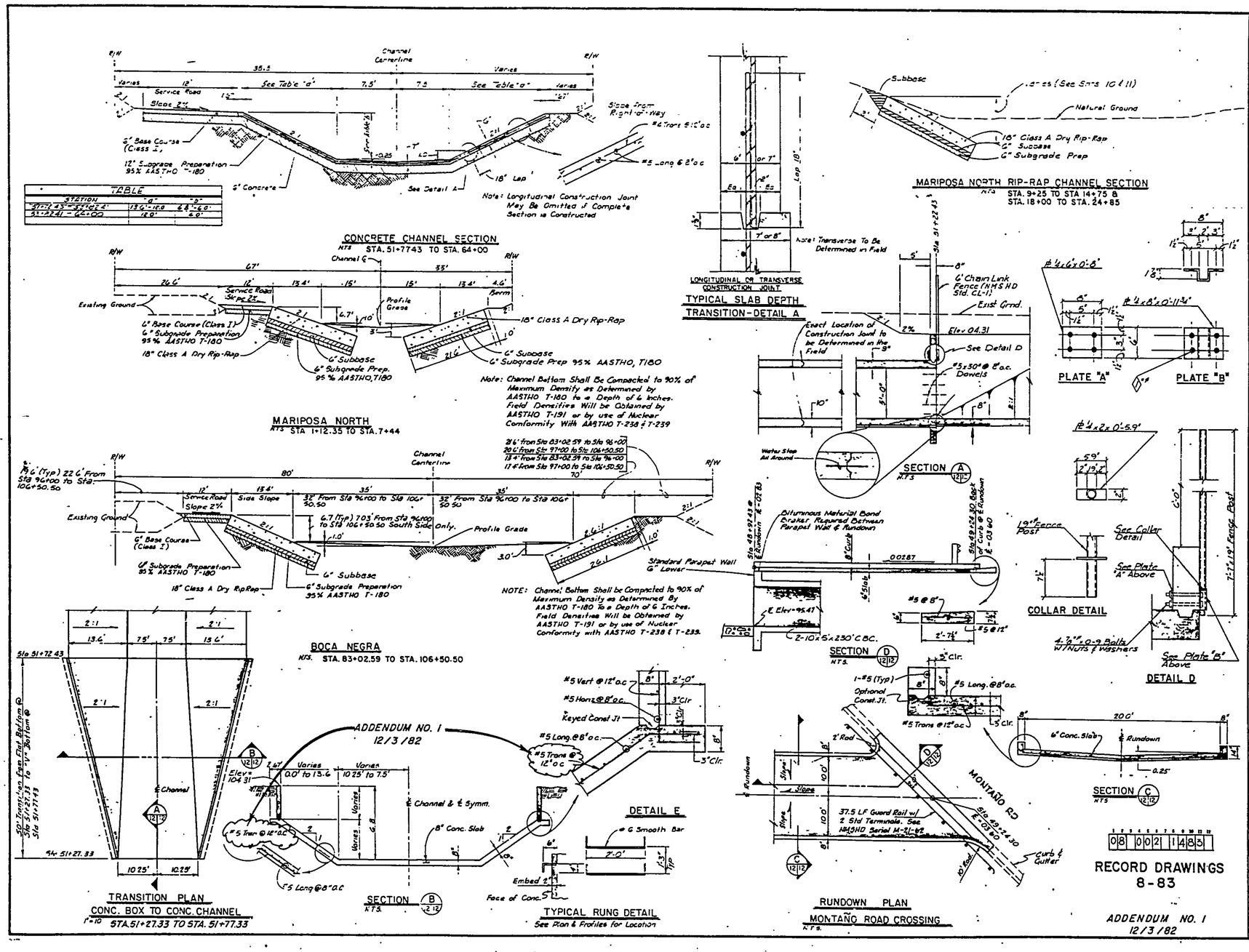
The Contractor Shall Provide Signing & Barricading As Required

NOTE: SEE SHEET 12 FOR RIP-RAP CHANNEL PROTECTION SECTION

Scale: Horiz. 1" = 50'
Vert. 1" = 10'

PLAN

		DATE
		BY



PHASE 2, MARIPOSA DIVERSION
BOCA NEGRA IMPROVEMENTS
& DETENTION BASIN
CHANNEL SECTIONS & DETAILS

DENNEY-GROSS & ASSOCIATES, INC.
SURVEYORS ENGINEERS PLANNERS
8400 COMANCHE ROAD N.E.
ALBUQUERQUE, NEW MEXICO 87107
(505) 884-0696

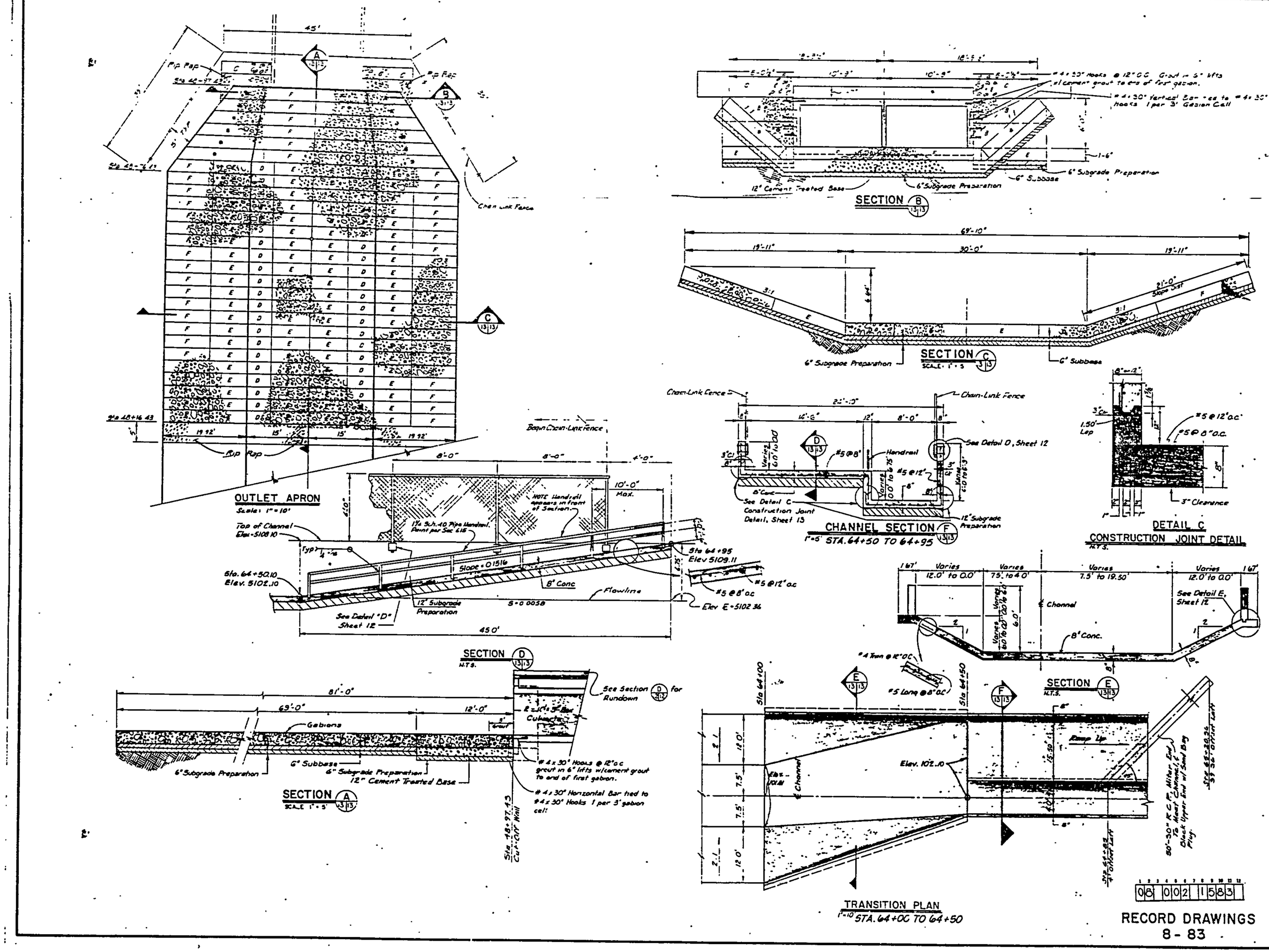
DESIGNED BY C.B.R.
DRAWN BY G.A.
CHECKED BY
CHECKED BY
REVISIONS

TYPE DRAWING: PRELIM ☐ CONST ☒ RECORD ☐
DATE: 10/82
JOB NO. 407.11
SHEET 12 OF 37 SHEETS

D 24 C 20 B 16 A 12

CITY OF ALBUQUERQUE

C D



PHASE 2, MARIPOSA DIVERSION
BOCA NEGRA IMPROVEMENTS
& DETENTION BASIN.

OUTLET APRON & CHANNEL SECTION

DENNEY-GROSS & ASSOCIATES, INC.
ENGINEERS SURVEYORS PLANNERS
2400 COMANCHE ROAD N.E.
ALBUQUERQUE, NEW MEXICO 87107
(505) 884-0696

DESIGNED BY C.R.
DRAWN BY E.A.
CHECKED BY
CHECKED BY
REVISIONS

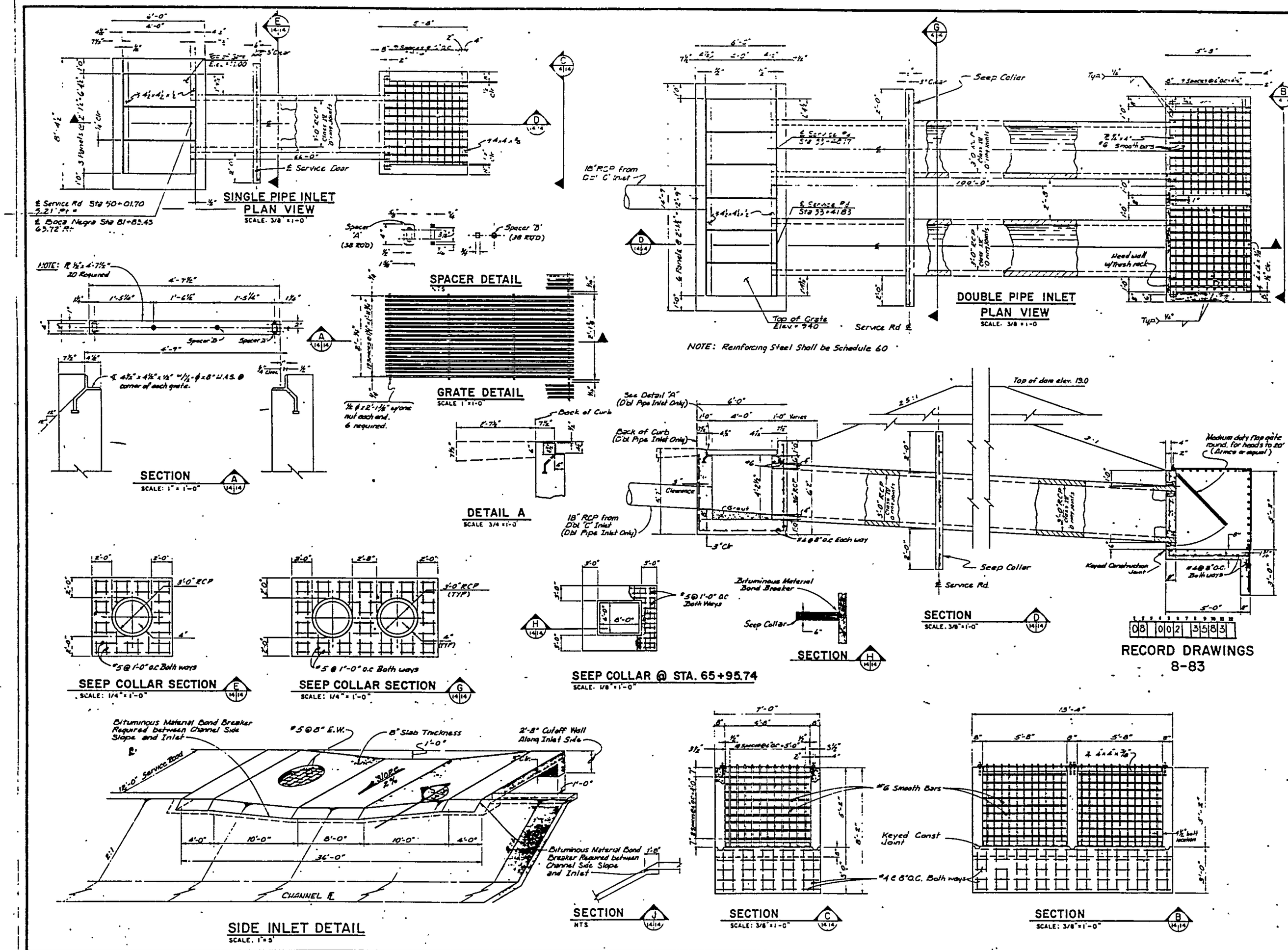
TYPE DRAWING: PRELIM. ☐ CONST. ☒ RECORD ☐
DATE: 10/82
JOB NO. 407 11
SHEET 13 OF 37 SHEETS

0 8 0 0 2 1 5 8 3

D 24 C 20 B 16 A 12

CITY OF ALBUQUERQUE

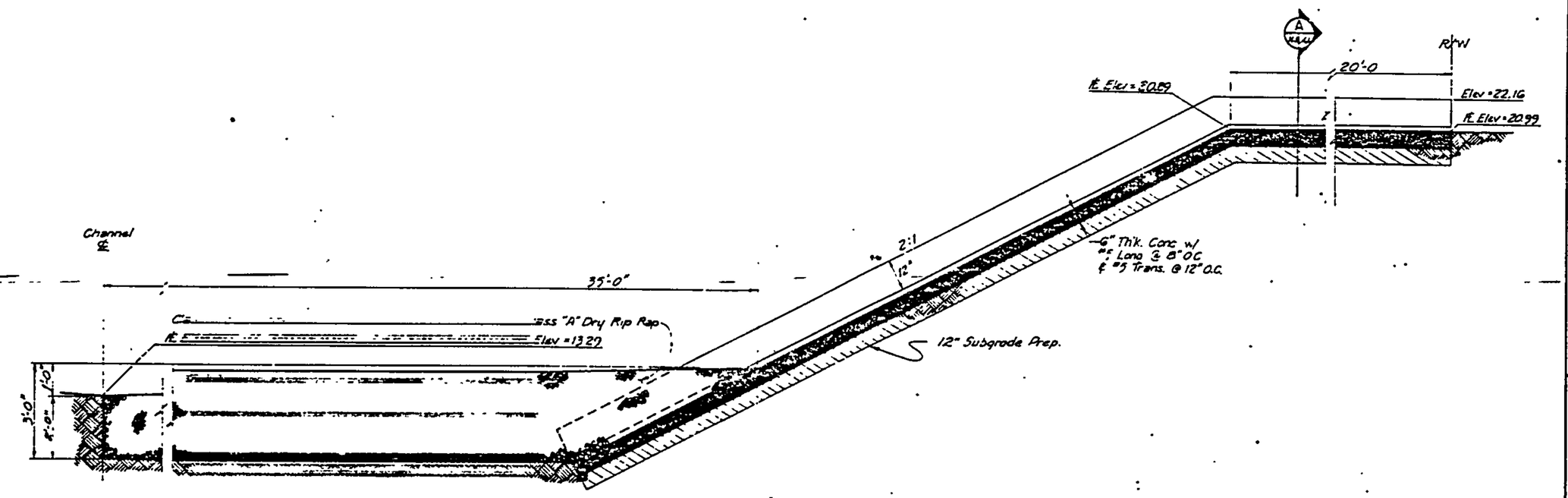
C D



D 24 C 20 B 16 A 12

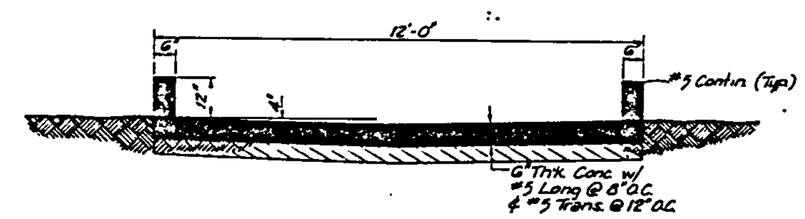
CITY OF ALBUQUERQUE

C D



CONCRETE RUNDOWN ELEVATION

SCALE: 1" = 2'-0"



RUNDOWN SECTION

SCALE: 1" = 2'-0"

RECORD DRAWINGS
8 - 83

PHASE 2, MARIPOSA DIVERSION
BOCA NEGRA IMPROVEMENTS
& DETENTION BASIN
RUNDOWN DETAILS

DENNEY - GROSS & ASSOCIATES, INC.
ENGINEERS SURVEYORS PLANNERS
2400 COMANCHE ROAD N.E.
ALBUQUERQUE, NEW MEXICO 87107
(505) 884-0888

TYPE DRAWING: PRELIM. ☐ CONST. ■ RECORD ☐

DATE: 10/82

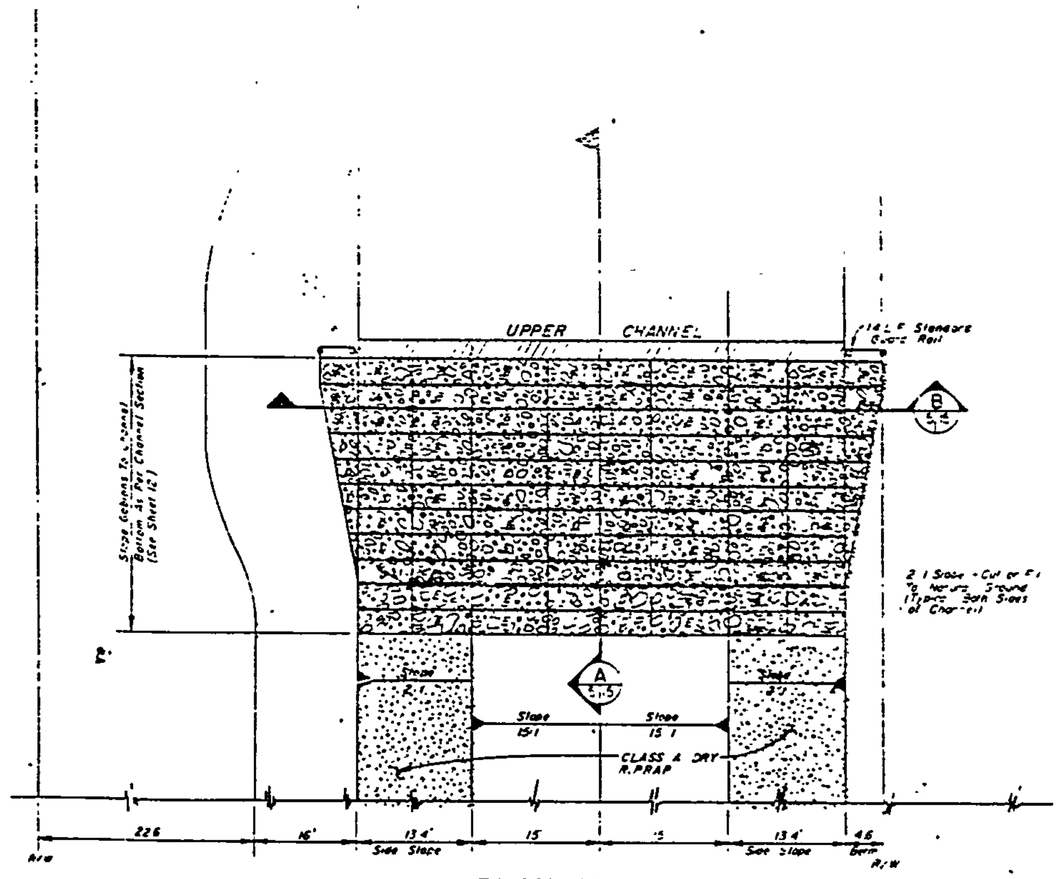
JOB NO. 40731

SHEET 14A OF 37 SHEETS

B 16 A 12

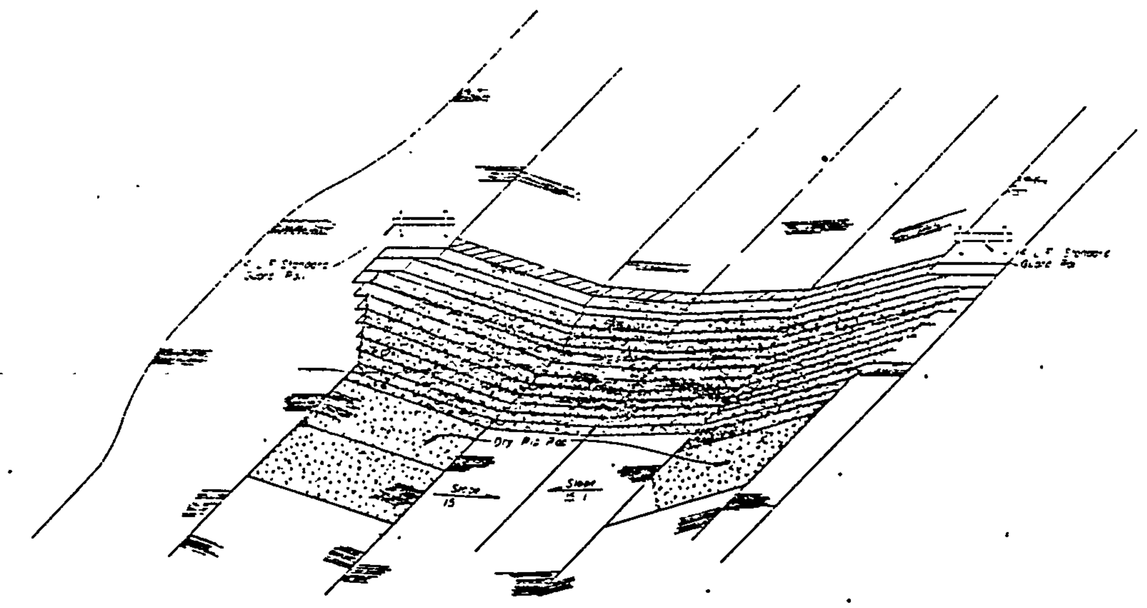
CITY OF ALBUQUERQUE

C D



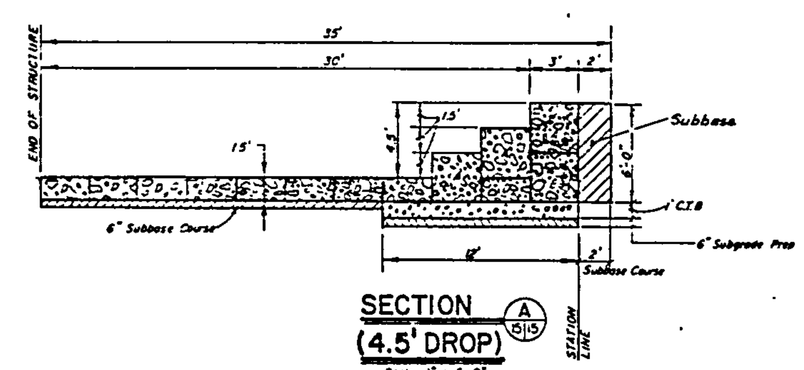
PLAN VIEW

Not to Scale



TYPICAL GABION DROP STRUCTURE ISOMETRIC

Not to Scale

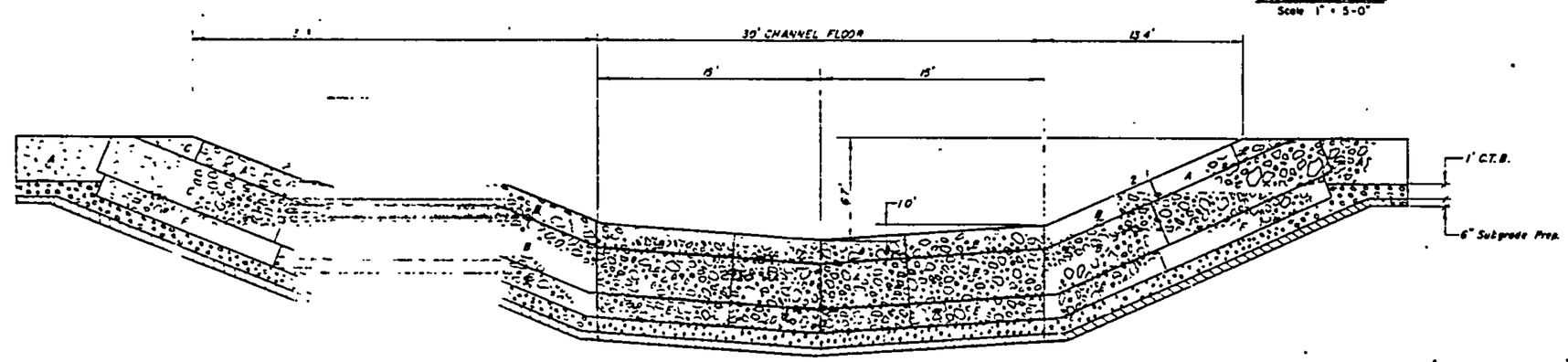


SECTION (A/D15)

(4.5' DROP)

Scale 1" = 5'-0"

GABION DESIGNATIONS		
CODE	SIZE	CAPACITY CU YDS
A	6'x3'x3'	20
B	9'x3'x3'	30
C	12'x3'x3'	40
D	6'x3'x1.5'	10
E	9'x3'x1.5'	15
F	12'x3'x1.5'	20
G	6'x3'x1'	0.66
H	9'x3'x1'	10
I	12'x3'x1'	13.3



SECTION (B/D16)

Scale 1" = 5'-0"

RECORD DRAWINGS
8-83

PHASE 2, MARIPOSA DIVERSION
BOCA NEGRA IMPROVEMENTS
& DETENTION BASIN

4.5' GABION DROP STRUCTURE

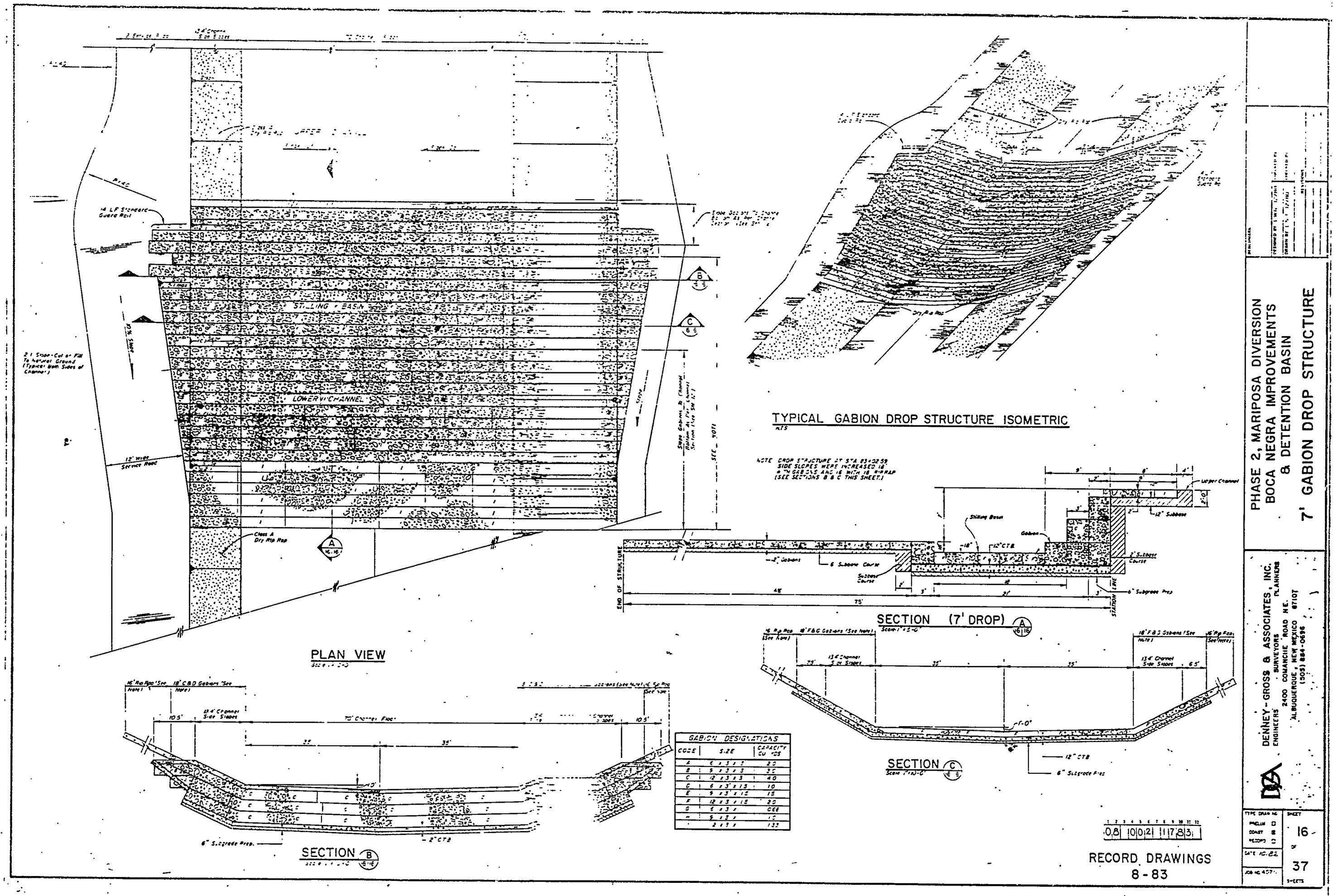
DENNEY-GROSS & ASSOCIATES, INC.
ENGINEERS SURVEYORS PLANNERS
2400 COMANCHE ROAD N.E.
ALBUQUERQUE, NEW MEXICO 87107
(505) 884-0666

TYPE DRAWING: PRELIM ☐ CONST ☒ RECORD ☐
DATE 10/82
JOB NO. 4C7.11
SHEET 15 OF 37 SHEETS

C 20 B 16 A 12

CITY OF ALBUQUERQUE

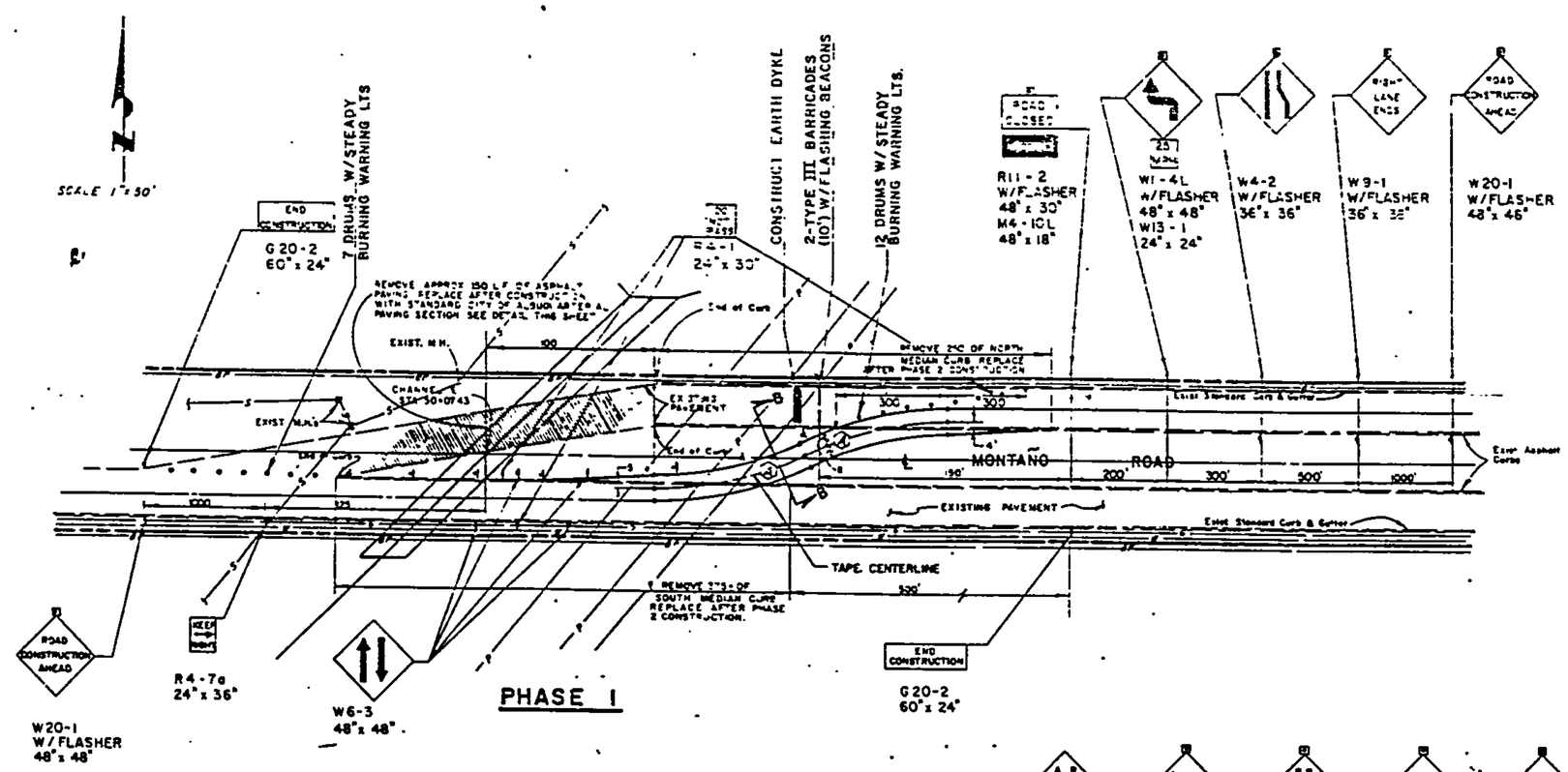
C

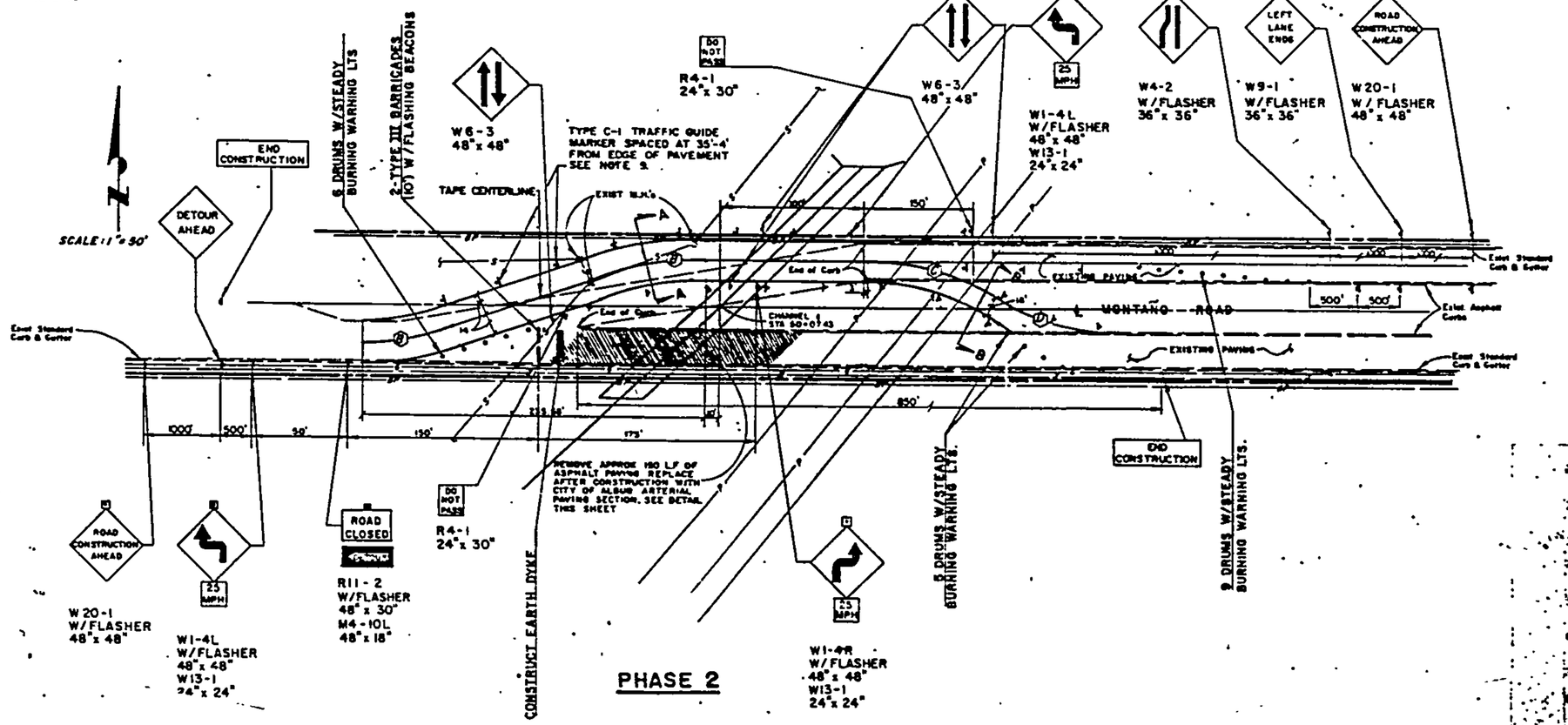


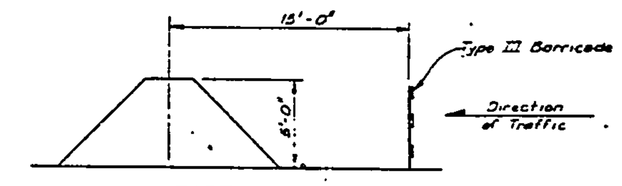
C 20 B 16 A 12

CITY OF ALBUQUERQUE

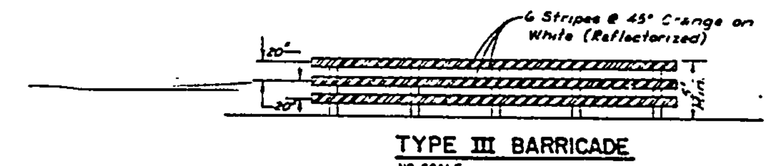
C



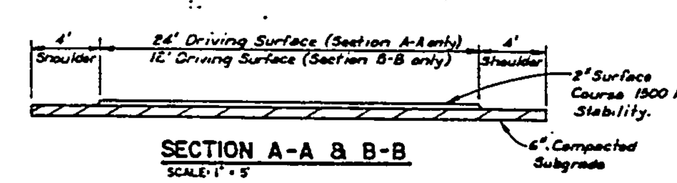




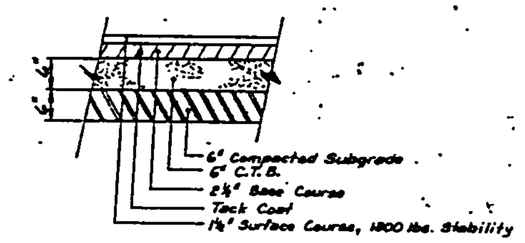
EARTH DIKE
NO SCALE



TYPE III BARRICADE
NO SCALE



SECTION A-A & B-B
SCALE: 1" = 5'



ARTERIAL PAVING SECTION
NO SCALE

NOTES

1. The Contractor shall construct detour as shown above for routing traffic around the concrete box culvert construction.
2. The Contractor shall obtain all permits required by the City of Albuquerque at no additional cost to the Owner.
3. The Contractor shall provide all signing and barricading as required.
4. The permit section for the detour shall be the temporary section as shown on Section A-A and Section B-B.
5. The Contractor shall not pile any excavated material under the power line lines.
6. Sign designations are those used by the Manual on Uniform Traffic Control Device for Streets and Highways - 1961".
7. Signs shall be Type "H" high intensity, "Scotch Lite" [illegible]
8. Signs, barricades, & drums furnished by the Contractor shall remain the property of the Contractor, except as noted.
9. Guide marks and posts shall be as per MRCOG Standard Detail [illegible]
10. Cost of detour to be included in Item 28.

CURVE DATA

CURVE NO	DELTA	RADIUS	LENGTH	TANGENT
A	26°48'39"	200.00	93.66	47.67'
B	19°15.00"	188.00	63.16	31.88'
C	30°00.00"	200.00	104.72'	53.66'
D	30°00.00"	158.28	82.87'	42.41'

08 0 0 2 1 8 8 3

RECORD DRAWINGS
8 - 83

PHASE 2, MARIPOSA DIVERSION
BOCA NEGRA IMPROVEMENTS
& DETENTION BASIN
MONTANO ROAD CROSSING

BENCHMARK:
DESIGNED BY: L.W.O. 11/81
DRAWN BY: L.S.J. 11/81
CHECKED BY:
CHECKED BY:
REVISIONS

Acklie, Bryce & Associates, Inc.
Engineers - Surveyors
Albuquerque, New Mexico

TYPE DRAWING
PRELIM. ☐
CONST. ■
RECORD ☐
DATE: 11/81
JOB NO. 407.11

SHEET 17
OF 37 SHEETS

D 24 | C 20 | B 16 | A 12

CITY OF ALBUQUERQUE

C