

**Jackson and Nobles Counties
Judicial Ditch No. 9**



PROPOSED SUMMARY

Area	Existing Size (in)	Proposed Size (in)	Existing Slope (%)	Proposed Slope (%)	Drainage Area (Acres)	Existing Drainage Coefficient (in/day)	Proposed Drainage Coefficient (in/day)
Main	38	60	0.60%	0.32%	6721.7	0.25	0.52
	48	60	0.05%	0.27%	6211.9	0.14	0.52
	Open Ditch	Open Ditch	0.05%	0.06%	5448.8	9.67	14.26
	7.4'x10' Box Culvert	7.4'x10' Box Culvert + 30	-0.05%	0.08%	5269.9	1.78	1.83
	Open Ditch	Open Ditch	0.05%	0.06%	5269.9	2.70	4.27
	10.5'x10.5' Box Culvert	-	-0.80%	0.06%	4066.0	3.81	-
	Open Ditch	Open Ditch	0.05%	0.00%	4066.0	2.27	3.61
	8'x10.5' Box Culvert	-	-0.40%	0.07%	2837.6	3.90	-
	Open Ditch	Open Ditch	0.05%	0.00%	2837.6	13.27	14.54
		28	42	0.10%	0.12%	1372.2	0.19
B	22	30	0.10%	0.10%	477.1	0.28	0.65
	16	30	1.00%	0.20%	104.5	1.75	0.92
B1	18	24	0.20%	0.15%	368.3	0.30	0.57
	18	24	0.40%	0.15%	368.3	0.43	0.57
	14	18	0.40%	0.50%	267.3	0.30	0.66
	12	18	0.50%	0.50%	224.3	0.27	0.79
	12	15	1.00%	0.90%	224.3	0.38	0.65
	8	12	0.30%	0.25%	77.2	0.20	0.55
	6	8	1.25%	1.00%	49.7	0.30	0.58
B3	6	8	0.20%	0.45%	17.2	0.35	1.13
E	24	36	1.40%	0.20%	1252.2	0.51	0.57
	24	36	0.20%	0.20%	1252.2	0.19	0.57
E1	12	18	0.20%	0.12%	138.6	0.27	0.63
	10	15	0.20%	0.20%	70.5	0.33	0.98
E3	20	30	0.30%	0.27%	728.9	0.25	0.70
	12	15	0.30%	0.50%	173.4	0.27	0.63
	12	15	0.50%	0.50%	173.4	0.35	0.63
	12	15	1.50%	0.50%	99.8	1.04	1.09
	12	15	0.20%	0.25%	99.8	0.38	0.77
	10	15	0.20%	0.25%	99.8	0.23	0.77
	8	12	0.20%	0.38%	72.1	0.18	0.73
	6	10	1.00%	0.40%	13.9	0.96	2.38
E4	18	24	0.30%	0.30%	555.6	0.25	0.53
	18	24	0.20%	0.30%	464.1	0.24	0.64
	16	24	0.20%	0.23%	323.7	0.25	0.80
	14	18	0.20%	0.20%	180.6	0.32	0.62
	12	18	0.20%	0.20%	97.2	0.39	1.15

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G	10	15	0.10%	0.10%	75.7	0.22	0.64
H	12	24	0.10%	0.10%	304.2	0.09	0.56
	12	18	0.50%	0.35%	269.5	0.22	0.55
	12	18	0.30%	0.30%	242.2	0.19	0.57
	10	15	0.20%	0.30%	158.1	0.15	0.53
	8	15	0.20%	0.25%	126.3	0.10	0.61
K	10	18	0.10%	0.19%	122.1	0.14	0.90
	10	12	0.50%	0.40%	87.4	0.42	0.62
	10	10	1.00%	1.00%	70.3	0.74	0.74
M	Open Ditch	OPEN DITCH	0.08%	0.00%	817.2	20.67	23.63
	4'x6' Box Culvert	54-in ROUND CULVERT	0.40%	0.00%	783.5	7.57	1.34
	Open Ditch	OPEN DITCH	0.08%	0.00%	783.5	10.01	12.89
	24	30	0.05%	0.05%	350.7	0.34	0.62
M2	16	24	0.10%	0.10%	249.7	0.23	0.68
	14	18	0.20%	0.20%	197.5	0.29	0.57
M3	6	10	0.40%	0.40%	45.2	0.19	0.73
	6	10	1.00%	0.40%	22.0	0.61	1.50
M4	10	15	0.50%	0.92%	158.9	0.23	0.93
	10	15	1.00%	0.75%	158.9	0.33	0.84
	12	12	1.00%	0.75%	100.2	0.85	0.73
	12	12	0.20%	0.50%	100.2	0.38	0.60
	10	12	0.20%	0.20%	63.0	0.37	0.60
M5	8	10	1.70%	2.40%	37.2	1.01	2.18
	8	10	2.30%	2.00%	33.6	1.30	2.20
	8	10	0.20%	0.45%	33.6	0.38	1.05
M7	10	18	0.10%	0.10%	129.5	0.13	0.61
	10	15	0.10%	0.10%	62.3	0.27	0.78
	8	15	0.20%	0.20%	62.3	0.21	1.11
	6	15	0.20%	0.20%	17.0	0.35	4.05
	6	15	1.50%	0.20%	17.0	0.96	4.05
M8	16	24	0.10%	0.05%	181.9	0.32	0.66
	16	18	0.10%	0.11%	160.2	0.36	0.52
	14	18	0.10%	0.10%	130.5	0.31	0.61
	12	15	0.10%	0.12%	105.7	0.25	0.51
	12	12	1.00%	1.20%	52.8	1.61	1.76
	6	12	1.00%	1.20%	44.9	0.30	2.08
	6	12	0.50%	1.50%	25.0	0.38	4.17

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M9	6	12	1.00%	1.00%	7.3	1.82	11.57
	6	12	2.00%	1.00%	3.7	5.15	23.14
	6	12	3.00%	3.00%	3.7	6.31	40.09
M10	6	10	0.30%	0.34%	19.9	0.37	1.53
	6	10	2.00%	2.00%	7.0	2.72	10.61
N	8	12	1.00%	0.30%	89.9	0.32	0.52
	8	12	0.20%	0.45%	78.8	0.16	0.72
	6	8	2.00%	1.75%	8.9	2.12	4.27
Q	8	12	0.40%	0.60%	93.4	0.20	0.71
	6	10	3.40%	2.50%	53.5	0.46	1.55
	6	10	5.00%	3.00%	53.5	0.56	1.69
Z	10	24	1.50%	0.50%	446.9	0.14	0.85
	10	24	1.00%	0.50%	446.9	0.12	0.85
	10	18	0.50%	0.75%	421.8	0.09	0.51
	10	18	1.00%	0.55%	364.7	0.14	0.51
	10	18	0.20%	0.35%	273.1	0.09	0.54
	10	18	0.20%	0.35%	251.7	0.09	0.59
Z1	12	24	0.80%	0.30%	550.4	0.14	0.54
	12	24	0.10%	0.30%	545.4	0.05	0.54
	12	18	0.10%	0.25%	252.6	0.11	0.50
	8	15	2.00%	0.75%	154.7	0.26	0.86
	8	15	1.50%	0.75%	154.7	0.23	0.86
	8	15	0.70%	0.75%	154.7	0.16	0.86
	8	15	0.20%	0.25%	144.4	0.09	0.53
	8	15	0.20%	0.25%	100.9	0.13	0.76
Z3	6	12	0.20%	0.25%	35.1	0.17	1.21
	6	10	0.30%	1.00%	12.4	0.59	4.22
	6	10	1.00%	1.00%	5.5	2.46	9.59