PROPOSED CROSS DRAIN CULVERTS

BASIN ID.	STATION NO.	DRAINAGE AREA (ACRES)	PRE RUNOFF VOLUME		POST RUNOFF VOLUME		PRE VELOCITY		POST VELOCITY		PRE HEADWATER		POST HEADWATER		SIZE (INCHES OR FEET)	DISTURBED AREA (ACRES)	RUNOFF COEFFICIENT, C		RECEIVING WATERS
			Q_{50} (CFS)	Q_{100} (CFS)	Q_{50} (CFS)	Q_{100} (CFS)	V_{50} (FT/S)	V_{100} (FT/S)	V_{50} (FT/S)	V_{100} (FT/S)	HW_{50} (FT)	HW_{100} (FT)	HW_{50} (FT)	HW_{100} (FT)			C_{BEFORE}	C_{AFTER}	
A	170+33	12.69	24.42	26.85	24.42	26.85	6.33	6.46	6.33	6.46	385.02	385.15	385.02	385.15	DBL 24"	4.58	0.38	0.38	ECHECONNEE CREEK
B	181+89	5.69	13.70	14.96	13.70	14.96	8.04	8.24	8.04	8.24	362.58	362.66	362.58	362.66	36"	3.86	0.35	0.35	ECHECONNEE CREEK
C	194+64	1886.40	2084.65	2372.24	2084.65	2372.24	19.03	19.64	19.03	19.64	337.13	338.22	337.13	338.22	DBL 10' x 10' RCBC	13.62	REGRESSION ANALYSIS	REGRESSION ANALYSIS	ECHECONNEE CREEK
D	201+73	32.60	69.12	75.90	69.12	75.90	14.83	15.13	14.83	15.13	342.93	343.19	342.93	343.19	48"	1.05	0.40	0.40	ECHECONNEE CREEK
E	209+84	5.76	21.13	22.99	21.13	22.99	15.98	16.34	15.98	16.34	351.06	351.32	351.06	351.32	24"	1.94	0.47	0.47	ECHECONNEE CREEK
F	215+01	57.9	97.99	107.89	97.99	107.89	15.68	16.09	15.68	16.09	349.50	349.71	349.50	349.71	7' x 4' RCBC	13.55	0.45	0.45	ECHECONNEE CREEK
H	240+00	2.90	8.74	9.58	9.63	10.56	5.35	5.49	5.49	5.63	371.40	371.47	371.47	371.55	30"	1.11	0.53	0.58	ECHECONNEE CREEK
I	274+92	0.4 SQ MI	410.09	481.13	410.09	481.13	14.54	15.13	14.54	15.13	331.98	332.57	331.98	332.57	DBL 7'x4' RCBC	7.23	REGRESSION ANALYSIS	REGRESSION ANALYSIS	ECHECONNEE CREEK
J	248+00	31.7	20.32	22.37	20.32	22.37	7.46	7.91	7.46	7.91	371.63	372.19	371.63	372.19	36"	2.54	0.33	0.33	ECHECONNEE CREEK
L	298+95	43.00	68.72	75.64	68.72	75.64	7.85	8.11	7.85	8.11	311.99	312.12	311.99	312.12	DBL 5'x 3' RCBC	9.52	0.35	0.35	ECHECONNEE CREEK

NOTE: SEE SHEET 53-02 FOR DRAINAGE AREAS

BASIN ID.	STATION NO.	DRAINAGE AREA (ACRES)	PRE RUNOFF VOLUME		POST RUNOFF VOLUME		PRE VELOCITY		POST VELOCITY		PRE HEADWATER		POST HEADWATER		SIZE (INCHES OR FEET)	DISTURBED AREA (ACRES)	RUNOFF COEFFICIENT, C		RECEIVING WATERS
			Q_{50} (CFS)	Q_{100} (CFS)	Q_{50} (CFS)	Q_{100} (CFS)	V_{50} (FT/S)	V_{100} (FT/S)	V_{50} (FT/S)	V_{100} (FT/S)	HW_{50} (FT)	HW_{100} (FT)	HW_{50} (FT)	HW_{100} (FT)			C_{BEFORE}	C_{AFTER}	
L	298+95	43.00	68.72	75.64	68.72	75.64	7.85	8.11	7.85	8.11	311.99	312.12	311.99	312.12	DBL 5'x 3' RCBC	9.52	0.35	0.35	ECHECONNEE CREEK
M	310+30	392.0	604.48	693.17	604.48	693.17	11.97	12.40	11.97	12.40	296.20	296.65	296.20	296.65	2-DBL 6'x 4' RCBC	9.23	REGRESSION ANALYSIS	REGRESSION ANALYSIS	ECHECONNEE CREEK
N	318+00	90.85	204.54	243.70	204.54	243.70	16.24	16.96	16.24	16.96	297.63	299.44	297.63	299.44	60"	1.84	REGRESSION ANALYSIS	REGRESSION ANALYSIS	ECHECONNEE CREEK
O	324+60	5.40	14.06	15.44	14.06	15.44	12.84	13.17	12.84	13.17	299.34	299.47	299.34	299.47	24"	0.49	0.47	0.47	ECHECONNEE CREEK
P	107+50 (IND HWY CONN)	3.70	8.71	9.60	8.71	9.60	7.87	8.05	7.87	8.05	295.06	295.15	295.06	295.15	24"	12.12	0.60	0.60	ECHECONNEE CREEK
Q	122+81 (IND HWY CONN)	40.8	68.01	75.08	73.86	81.54	6.76	7.02	6.97	7.28	294.12	294.27	294.24	294.41	TPL 30" PIPE	9.09	0.41	0.45	ECHECONNEE CREEK
R	386+50	239.0	367.96	437.58	367.96	437.58	6.90	7.31	6.90	7.31	282.30	282.61	282.30	282.61	TPL 6'x 3' RCBC	13.38	REGRESSION ANALYSIS	REGRESSION ANALYSIS	ECHECONNEE CREEK
S	389+50	154.3	282.15	335.83	282.15	335.83	7.96	8.44	7.96	8.44	284.50	284.92	284.50	284.92	DBL TPL 6'x 3' RCBC	5.78	REGRESSION ANALYSIS	REGRESSION ANALYSIS	ECHECONNEE CREEK
T	411+60	8.20 SQ.MI.	3193.00	3693.00	3193.00	3693.00	13.03	14.43	13.03	14.43	288.06	289.81	288.06	289.81	TPL 10'x 12' RCBC	9.57	HEC-RAS ANALYSIS	HEC-RAS ANALYSIS	ECHECONNEE CREEK

NOTE: SEE SHEET 53-03 FOR DRAINAGE AREAS

BASIN ID.	STATION NO.	DRAINAGE AREA (ACRES)	PRE RUNOFF VOLUME		POST RUNOFF VOLUME		PRE VELOCITY		POST VELOCITY		PRE HEADWATER		POST HEADWATER		SIZE (INCHES OR FEET)	DISTURBED AREA (ACRES)	RUNOFF COEFFICIENT, C		RECEIVING WATERS
			Q_{50} (CFS)	Q_{100} (CFS)	Q_{50} (CFS)	Q_{100} (CFS)	V_{50} (FT/S)	V_{100} (FT/S)	V_{50} (FT/S)	V_{100} (FT/S)	HW_{50} (FT)	HW_{100} (FT)	HW_{50} (FT)	HW_{100} (FT)			C_{BEFORE}	C_{AFTER}	
T	411+60	8.20 SQ.MI.	3193.00	3693.00	3193.00	3693.00	13.03	14.43	13.03	14.43	288.06	289.81	288.06	289.81	TPL 10'x 12' RCBC	9.57	HEC-RAS ANALYSIS	HEC-RAS ANALYSIS	ECHECONNEE CREEK
U	439+63	4.49	10.25	11.29	21.75	23.81	8.38	8.56	4.40	4.90	312.02	312.08	N/A	N/A	30"	4.10	0.55	0.82	ECHECONNEE CREEK
V	458+77	43.20	64.06	70.41	64.06	70.41	10.58	10.82	10.58	10.82	325.24	325.47	325.25	325.47	48"	4.82	0.35	0.35	ECHECONNEE CREEK
W	481+01	8.13	13.75	14.96	15.63	17.00	5.03	5.24	5.72	5.96	N/A	N/A	325.24	325.47	18"	4.29	0.43	0.49	ECHECONNEE CREEK
X*	810+00 (RAMP C)	0.2 SQ MI	235.92	278.62	194.71	226.85	10.72	11.19	10.19	10.61	307.45	307.86	307.04	307.36	TRPL 5'x 3' RCBC	41.87	*	*	ECHECONNEE CREEK
Y*	905+50 (RAMP D)	0.2 SQ MI	235.92	278.62	194.71	226.85	9.96	10.42	9.45	9.86	309.28	309.69	308.58	308.95	TRPL 5'x 3' RCBC	2.61	*	*	ECHECONNEE CREEK

* FROM DETENTION POND STORAGE CALCULATIONS USING SCS METHOD.

NOTE: SEE SHEET 53-04 FOR DRAINAGE AREAS
TOTAL SITE SIZE: 242.71 ACRES
TOTAL DISTURBED AREA: 232.41 ACRES

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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: PROGRAM DELIVERY

EROSION CONTROL DRAINAGE AREA MAP

DRAWING No. 53-05