CACTUSJACK,9/9/2004,R:\ncdot\R2911C\Roadway\Doc\Drainage_summaries.xls

COMPUTED BY: L. ADAMS DATE: August-04

CHECKED BY: D. WILVER DATE: August-04

PROJECT NO.	SHEET NO.
R-2911C	3B

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CACTUSJACK

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)

STATION	LOCATION (LT, RT, OR CL)	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	CLASS III R.C. PIPE (UNLESS NOTED OTHERWISE) 12"	15"	18"	24"	30"	36"	42"	48"	BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE) 12" .064	15" .064	18" .064	24" .064	30" .079	36" .079	42" .109	48" .109	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	24" SIDE DRAIN PIPE	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CU. YARDS R.C.P.	C.S.P.	QUANITIES FOR DRAINAGE STRUCTURES PER EACH (0' THRU 5.0')	*TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') LIN. FT. A 5.0' THRU 10.0'	B 10.0' AND ABOVE	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES, AND HOOD STANDARD 840.03 TYPE OF GRATE E	F	G	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATE STD. 840.16	M.D.I. TYPE "A" STD. 840.17 OR 840.26	M.D.I. TYPE "B" STD. 840.18 OR 840.27	M.D.I. TYPE "D" STD. 840.19 OR 840.28	M.D.I. FRAME WITH GRATE STD. 840.20	M.D.I. FRAME WITH TWO GRATES STD. 840.22	M.D.I. (N.S.) FRAME WITH GRATE STD. 840.24	M.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	J.B. STD. 840.31 OR 840.32	T.B.J.B. STD. 840.34	MANHOLE STD. 840.51	M.H. STD. 840.51 OR 840.53	M.H. FRAME AND COVER STD. 840.54	CORR. STEEL ELBOWS NO. & SIZE	CONC. COLLARS CL. "B" C.Y. STD. 840.72	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	PIPE REMOVAL LIN. FT.	REMARKS
L1 27+74.00	LT	31	32		813.00	810.65			48																																													
L1 28+19.00	LT	32		812.90																									1							1	1																	
		32	33		810.65	810.58			28																																													
L1 28+19.00	LT	33		814.40																									1			1		1																				
		33	34		810.58	810.17			140																																													
L1 32+30.00	LT	36	35		815.25	813.20			60																																													
L1 31+92.00	LT	35		816.37																									1			1		1																				
		35	34		813.20	812.33			236																																													
L1 29+58.00	LT	34		815.50																									1	0.33		1		1																				
		34	38		810.17	809.16			64																																													
L1 27+00.00	RT	37		813.11																									1			1			1																			
		37	38		809.94	809.16			260																																													
L1 29+58.00	RT	38		815.50																									1	1.59		1			1															2 - 18"				
		38	39		808.91	787.10												80																																				
L1 29+92.00	LT	40	41		808.50	801.50					20																																											REMOVE FES
L1 29+92.00	LT	41		812.90																									1																	1				1					
L1 29+76.00	LT	42	43		Existing	787.00												72																																	1			REMOVE FES
Y4 10+50.00	LT	44	OUT		Drive	Pipe																		28																														
Y4 10+95.00	LT	46	OUT		Drive	Pipe																		28																														
Y4 11+27.00	LT	48	49		816.41	815.85			60																																													
L1 33+64.00	LT	50		815.93																									1			1	1																					
		50	51		812.76	812.65			40																																													
L1 34+00.00	LT	51		816.10																									1			1			1																			
		51	53		812.65	812.14			156																																													
L1 35+55.00	LT	52		814.60																									1							1	1																	
		52	53		812.35	812.14			24																																													
L1 35+55.00	LT	53		815.31																									1			1			1																			
		53	54		812.14	810.06			216																																													
L1 38+93.00	LT	55	56		809.40	807.40				60																																												
L1 38+56.00	LT	56		809.90																									1							1	1																	
		56	57		806.90	806.71	X				32																																											
L1 38+57.00	LT	57		812.06																									1	0.35		1			1																	0.13		PLUG 18" RCP
		57	54		806.71	806.13	X				88																																											
L1 37+70.00	LT	54		813.23																									1	2.6		1			1																			REMOVE HEADWALL
		54	58		805.63	804.49						68																																										
L1 39+57.00	RT	61	62		806.34	806.16			64																																													
L1 39+11.00	RT	62		811.34																									1	0.18		1		1																				
		62	58		806.16	805.74			144																																													
L1 37+70.00	RT	58		813.23																									1	3.74		1		1																				REMOVE FES
		58	63		804.49	799.40						72																																										
Y5 14+92.00	LT	59	60		807.32	806.35			76																																													
Y5 10+20.00	LT	64	OUT		Drive	Pipe																		40																													40	REMOVE 40' OF 12" RCP
Y5 12+25.00	LT	66	OUT		Drive	Pipe																		32																													53	REMOVE 53' OF 12" RCP
Y5 10+86.00	RT	68	OUT		Drive	Pipe																		24																													48	REMOVE 48' OF 12" RCP
Y5 11+86.00	RT	70	OUT		Drive	Pipe																		28																													22	REMOVE 22' OF 12" RCP
Y5 15+62.00	RT	73	OUT		Drive	Pipe																		20																														
L1 39+77.00	LT	74	75		808.73	805.65			80																																													
L1 40+50.00	LT	75		807.90																									1							1	1																	
		75	76		805.65	804.65			72																																													
SHEET TOTAL									1768	60	140	140						152						200					17	8.79		12	1	5	6	4	4								1				1	2 - 18"	1	0.13	163	

ABBREVIATIONS

C.B. CATCH BASIN
N.D.I. NARROW DROP INLET
D.I. DROP INLET
M.D.I. MEDIAN DROP INLET
M.D.I.(N.S.) MEDIAN DROP INLET (NARROW SLOT)
J.B. JUNCTION BOX
M.H. MANHOLE
T.B.D.I. TRAFFIC BEARING DROP INLET
T.B.J.B. TRAFFIC BEARING JUNCTION BOX