COMPUTED BY: A PRIDGEN DATE: 08.22.03
CHECKED BY: ______ DATE: ______

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.: R-2417BB | SHEET NO.: 3-B

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"	CLASS IV R.C. PIPE (W/METHOD B INSTALLATION) 15"	18"	24"	30"	36"	42"	48"
-L- 505+30	RT	24			386.5																
-L- 511+00	LT	25		414.39	411.72																
-L- 511+00	LT	25	26		411.72	OUT															
-L- 512+00	RT	27		413.62	410.95																
		27	28		410.95	409.33			148												
-L- 513+45	RT	28		412.0	410.95																
-L- 513+45	RT	28	29		409.33	399.95															
-L- 513+35	CL	30			393.7	392.8											236				
-L- 513+95	LT	31		411.4	408.73																
-L- 513+95	LT	31	32		408.73	396.0															
-L- 514+23	RT	34	33		401.42	401.2					32										
-L- 514+50	RT	34		406.62	401.42																
		35	34		401.74	401.42					104										
-L- 515+00	CL	35		408.25	401.74																
		36	35		403.99	401.74					104										
-L- 515+50	LT	36		406.66	403.99																
		37	35		402.79	401.74			308												
-L- 518+08	CL	37		404.62	402.79																
-L- 524+10	CL	38		399.05	386.66																
-L- 524+10	LT	38	39		386.66	381.3								108							
-L- 524+10	RT	40	38		391.30	386.66								104							
-L- 529+50	CL	41		393.72	391.05																
		42	41		393.47	391.05			84												
-L- 529+50	LT	42		396.14	393.47																
		41	43		391.05	386.52			252												
-L- 532+00	CL	43		393.72	386.52																
		44	43		386.97	386.52					80										
-L- 532+00	RT	44		390.47	386.97																
-L- 532+00	RT	45	44		399.0	386.97															
		43	46		386.52	386.25						92									
-L- 532+92	CL	46		391.97	386.25																
		47	46		390.17	386.25			68												
-L- 532+92	RT	47		392.84	390.17																
		46	48		386.25	385.21						346									
-L- 536+38	CL	48		391.60	385.21																
SHEET TOTALS									860		320	438		212			236				

STATION	FROM	TO	BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHRWISE) 12" .064	15" .064	18" .064	24" .064	24"	30" (0.079" THICK) .079	30"	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	24" SIDE DRAIN PIPE	ENDWALLS STD. 838.01, STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YDS. R.C.P.	C.S.P.	QUANTITIES 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	
-L- 505+30	24												3.4									
-L- 511+00	25														1							
-L- 511+00	25	26		48																		
-L- 512+00	27														1							
	27	28																				
-L- 513+45	28														1							
-L- 513+45	28	29		40																		
-L- 513+35	30																					
-L- 513+95	31														1							
-L- 513+95	31	32		36																		
-L- 514+23	34	33																				
-L- 514+50	34														1	0.20						
	35	34																				
-L- 515+00	35														1	1.51						
	36	35																				
-L- 515+50	36														1							
	37	35																				
-L- 518+08	37														1							
-L- 524+10	38														1	5.0	2.39					
-L- 524+10	38	39																				
-L- 524+10	40	38											4.5									
-L- 529+50	41														1							
	42	41																				
-L- 529+50	42														1							
	41	43																				
-L- 532+00	43														1	2.2						
	44	43																				
-L- 532+00	44														1							
-L- 532+00	45	44			28																	
	43	46																				
-L- 532+92	46														1	0.72						
	47	46																				
-L- 532+92	47														1							
	46	48																				
-L- 536+38	48														1	1.39						
SHEET TOTALS				124	28								7.9		16	11.02	2.39					

STATION	FROM	TO	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME & 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 TWO GRATES STD. 840.22	M.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	J.B. STD. 840.31 OR 840.32	M.D.I. FRAME WITH TWO GRATES STD. 840.20	6" CS PIPE CULVERT, 0.064" THICK (SPRING BOX)	SPRING BOX STD. 840.41	M.H. FRAME & COVER STD. 840.54	TEMP 15' SIDE DRAIN	TEMP. 15" RCP	36" CLASS V R.C. PIPE (W/METHOD B INSTALLATION)	MODIFIED CONCRETE FLUME	CONCRETE APRON FOR CATCH BASIN	CONCRETE APRON FOR DROP INLETS	CORR. STEEL ELBOWS NO. & SIZE	CONC. COLLARS CL. "B" C.Y. STD 840.72	FLOWABLE FILL MATERIAL, CY	PIPE REMOVAL LIN.FT.	REMARKS
-L- 505+30	24																308								
-L- 511+00	25					1					1									1					
-L- 511+00	25	26																			2@15"				
-L- 512+00	27					1					1									1					
	27	28																							
-L- 513+45	28					1					1									1					
-L- 513+45	28	29																			2@15"				
-L- 513+35	30																								
-L- 513+95	31					1					1									1					
-L- 513+95	31	32																			2@15"				
-L- 514+23	34	33																							
-L- 514+50	34				1			1												1					
	35	34																							
-L- 515+00	35					1		1												1					
	36	35																							
-L- 515+50	36					1		1												1					
	37	35																							
-L- 518+08	37						1	1												1					
-L- 524+10	38				1			1												1					
-L- 524+10	38	39																							
-L- 524+10	40	38																							
-L- 529+50	41					1		1												1					
	42	41																							
-L- 529+50	42					1		1												1					
	41	43																							
-L- 532+00	43				1			1												1					
	44	43																							
-L- 532+00	44					1		1												1					
-L- 532+00	45	44																			2@18"				18" BERM DITCH OULET
	43	46																							
-L- 532+92	46				1			1												1					
	47	46																							
-L- 532+92	47					1					1									1					
	46	48																							
-L- 536+38	48				1			1												1					
SHEET TOTALS					5	10	1	11			5						308			16	6@15" 2@18"				

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 JUCTION BOX

6/20/00

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