D11CAD212280

COMPUTED BY: D. E. Wilson DATE: 8/31/04
CHECKED BY: J. L. Laws DATE: 8/31/04

PROJECT NO.	SHEET NO.
R-3427	3-A

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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
-L- 14+00	LT	1																						28		
-L- 16+30	LT	2																						28		
-L- 16+50	RT	3		821.71	812.55																					
-L- 16+46	RT	3	4		812.55	812.90							12													
-L-17+24	LT	5		821.42	809.89																					
-L- 17+40	LT	5	6		809.89	809.34							36													
-L- 20+40	LT	7																						32		
-L- 20+90	RT	8																						36		
-L- 21+90	RT	9		815.80	813.24																					
-L- 22+20	LT	10			812.41	812.00				28																
-L- 23+40	RT	11																						40		
-L- 25+35	RT	12																								
-L- 25+35	RT	12	13														32									
-L- 25+35	LT	14																								
-L- 25+35	LT	14	15														36									
-L- 27+35	RT	16																						28		
-L- 30+25	LT	17																						28		
-L- 37+60	LT	18			841.98					8																
-L- 37+60	RT	19				839.00				8																
-L- 38+45	LT	20																						28		
-L- 44+70	RT	21																						28		
-L- 46+60	LT	22																						28		
-L- 47+20	RT	23			825.38	825.30					20															
-L- 47+70	LT	24			827.30	826.95					16															
-L- 50+50	RT	25		827.30	823.80																					
SHEET TOTALS										44	36		48				68							304		

STATION	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. (N.S.) FRAME WITH TWO GRATES STD. 840.29	M.D.I. (N.S.) 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	T.B. D.I. STD. 840.35	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
-L- 14+00																												24	12" RCP
-L- 16+30																												18	12" RCP
-L- 16+50			1	3.80															1				1						
-L- 16+46	3.4																												
-L-17+24			1	5.00	0.64														1				1						
-L- 17+40																													
-L- 20+40																													
-L- 20+90																												92	12" RCP & PLASTIC
-L- 21+90			1							1	1																		
-L- 22+20																										0.447			
-L- 23+40																												29	12" RCP
-L- 25+35			1												1									1					
-L- 25+35																									(2) - 15				
-L- 25+35			1												1									1					
-L- 25+35																									(2) - 15				
-L- 27+35																												22	15" RCP
-L- 30+25																												40	15" RCP
																											0.13		PLUG 18" -L- 30+27
-L- 37+60																										0.447			
-L- 37+60																										0.447			
-L- 38+45																												29	12" RCP
-L- 44+70																													REMOVE EX PIPE
-L- 46+60																													
-L- 47+20																										0.553			
-L- 47+70																										0.553			
-L- 50+50			1										1		1														
SHEET TOTALS	3.4		6	8.8	0.64					1	1		1		3				2				2	2	(4) - 15	2.447	0.13	254	

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