COMPUTED BY:	H. S. WILVER	DATE:	7-05
CHECKED BY:	D. L. WILVER	DATE:	7-05

PROJECT REFERENCE NO.	SHEET NO.
B-4009	3A
R/W SHEET NO.	

8/17/99

REVISIONS

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

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

STATION / SIZE / THICKNESS OR GAUGE	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) 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 TWO GRATES 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	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	T.B.D.I. STL FRAME W/ TWO GRATES STD. 840.29	CONVERT 2GI W/ CONC COVER TO 2GI	CONVERT 2GI TO JB	ADJUST 2GI	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
DET 25+50	C	1		249.95																									1										1			1																	
		1	2		247.2	244.37			164																																																	110	REMOVE 100' 18" RCP
DET 27+13	C	2		249.30																									1										1																				TEMP. STEEL PLATE COVER
DET 31+49.	C	3		250.14																									1											1		1																	TEMP. 2GI
		3	4		248.2	248.22			104																																																	104	TEMP. PIPE
DET 30+46	C	4		250.91																									1										1																				TEMP. STEEL PLATE COVER
		4	5		248.1	245.70			80																																																		
DET 50+71	C	6			262.15																								1										1			1																	TEMP. 2GI
DET 50+71	C	7		261.93																																																1							
L 27+12.8	C	8		249.30																																						1																	
L 30+48.4	C	9		250.91																																						1																	
L 34+82.9	C	10		252.73																									1										1			1																	
		10	11		249.9	249.82			52																																																		
L 34+86.5	L	11		255.80																									1	0.98									1		1																		
		11	12		249.8	246.00											28																																						2 - 15"				
L 35+07.9	R	13		254.60																									1										1		1																		
		13	14		251.8	241.50											36																																						2 - 15"			14	REMOVE 14' OF 18" CMP
L 42+25.0	R	15		254.20																									1										1		1																		
		15	16		251.4	249.85											20																																						2 - 15"				
L 42+49.8	C	17		256.00																									1																				1	1									
		17	18		252.8	252.73			32																																																		
L 42+49.8	L	18		255.80																									1										1		1																		
		18	19		252.7	246.00											32																																						2 - 15"				
L 44+27.9	C	20		252.70																									1	1.89									1			1																	
		20	EX		245.81	244.97																																																				8	REMOVE 8' OF 15" RCP
L 46+03.4	C	21		252.00																									1										1			1																	
		21	20		249.2	245.81			176																																																		
L 48+00.0	L	22		255.70																									1										1			1																	
		22	23		252.9	251.25			200																																																		
L 46+03.5	L	23		254.00																									1										1			1																	
		23	24		251.2	245.10											24																																						2 - 15"				
L 50+75.1	C	25		262.15																									1										1			1																	
		25	26		257.3	257.31				16																																														0.45			
L 54+68.3	C	27		279.83																																																	1						ADJUST 2GI
TOTAL									808	16							140												16	2.87									14	1	4	11							1	1		1	1		10 - 15"	0.45		236	
SAY									808	16							140												16	3.00									14	1	4	11							1	1		1	1		10 - 15"	0.45		236	

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

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