COMPUTED BY:	CHL	DATE:	10/12/2004
CHECKED BY:	AEV	DATE:	10/18/2004

PROJECT NO.	SHEET NO.
B-4152	3-A

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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"
13+50	RT	1		149.20											
		1	OUT		146.45	142.06									
16+15	LT	2		145.69											
		2	OUT		142.94	142.20			16						
16+15	RT	3		146.00											
		3	OUT		143.25	141.75									
15+70	RT	4		146.24											
		4	3		143.49	143.25			48						
17+68	LT	5													
SHEET TOTALS								0	64	0	0	0	0	0	0

STATION	FROM	TO	BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE) 12" 0.064	15" 0.064	18" 0.064	24" 0.064	24"	30" 0.079	30"	36" 0.079	36"	42" 0.109	42"	48" 0.109	48"	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.
13+50	1																			
	1	OUT		28																
16+15	2																			
	2	OUT																		
16+15	3																			
	3	OUT		20																
15+70	4																			
	4	3																		
17+68	5															24				
SHEET TOTALS			0	48	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0

STATION	FROM	TO	QUANITIES FOR DRAINAGE STRUCTURES PER EACH (0 THRU 5')	*TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') LIN. FEET A 5' THRU 10'	B 10' 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. 840.20	M.D.I. FRAME WITH TWO GRATES STD. 840.22	M.D.I. (N.S.) FRAME WITH GRATE STD. 840.29	M.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.29	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	BERM DRAINAGE OUTLET STD. 850.11
13+50	1		1										1						1					
	1	OUT																						
16+15	2		1										1						1					
	2	OUT																						
16+15	3		1										1						1					
	3	OUT																						
15+70	4		1										1						1					
	4	3																						
17+68	5																							
SHEET TOTALS			4	0.00	0.00	0	0	0	0	0	0	0	4	0	0	0	0	0	4	0	0	0	0	0

STATION	FROM	TO																	15" PIPE END SECTION	BITUMINOUS COATED ELBOWS NO. & SIZE	CONC. COLLARS CL. "B" C.Y. STD. 840.72	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	PIPE REMOVAL (FEET)	REMARKS
13+50	1																							
	1	OUT																		2 @ 15"				
16+15	2																							
	2	OUT																						
16+15	3																							
	3	OUT																		2 @ 15"				
15+70	4																							
	4	3																						
17+68	5																		1					SIDE DRAIN PIPE
SHEET TOTALS			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4 @ 15"	0.00	0.00	0.0	

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