COMPUTED BY: C. HIGHFILL DATE: 7/30/2004

CHECKED BY: D. BASS DATE: 7/30/2004

PROJECT NO.	SHEET NO.
R-2911D	3-I

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"
363+00 L	LT	150		678.49	676.57										
362+50 L	CL	150	151		676.57	675.69			88						
362+50 L	RT	152		678.49	676.57										
362+50 L	CL	152	151		676.57	675.69			76						
364+59 L	CL	153		679.66	675.75										
TEMPORARY PIPE															
248+98 L	LT	15A		697.5	693.00										
330+49 L	CL	109	108												
330+69 L	RT	109													
330+69 L	RT	110	109												
10+16 Y5DET	CL	123													
10+00 Y15	CL														
243+35 L	CL														
10+00 DET	CL														
221+10 L1	RT														
SHEET TOTALS									164						
PROJECT TOTALS								**76**	**8404**	**3196**	**942**	**160**	**848**		**204**

STATION	BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE) 12" .064	15" .064	18" .064	24" .064	30" .079	36" .079	42" .109	WELDED STEEL 24" .500	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.
248+98 L			40 (UNCOATED)										
330+49 L						78 (UNCOATED)							
330+69 L (110–109)						72 (UNCOATED)							
10+16 Y5DET						96 (UNCOATED)							
10+00 Y15			84										
243+35 L		104											
10+00 DET		104											
221+10 L1		44											
SHEET TOTALS		252	124			246							
PROJECT TOTALS		**706**	**372** (332 / 40 UNCOATED)			**246** (UNCOATED)		**92**	**188**	**68**		**17.4**	

STATION	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	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. (N.S.) FRAME WITH TWO GRATES STD. 840.24	M.D.I. (N.S.) FRAME WITH GRATE STD. 840.24	M.D.I. FRAME WITH TWO GRATES STD. 840.22	J.B. STD. 840.31 OR 840.32	M.D.I. (N.S.) FRAME WITH TWO FLAT GRATES STD. 840.29	MANHOLE STD. 840.51	M.H. STD. 840.51 OR 840.53	M.H. FRAME AND COVER STD. 840.54	18" X 18" X 18" PERFORATED TEE RISER	CONVERT 2GI W/LID TO 2GI W/FRAME AND GRATE
363+00 L	1											1		1									
362+50 L (RT 152)	1											1		1									
364+59 L														1									1
248+98 L																						1	
330+69 L (RT 109)	1																1						
SHEET TOTALS	3											2		3			1					1	1
PROJECT TOTALS	**108**	**35.06**	**7.93**							**6**	**68**	**22**		**82**			**12**	**15**			**4**	**1**	**1**

45.369

STATION	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
363+00 L				24	
330+49 L				78	
330+69 L (110–109)				72	
10+16 Y5DET				96	
10+00 Y15				84	SEE TCP-6
243+35 L				104	SEE TCP-7
10+00 DET				104	SEE TCP-9
221+10 L1				44	SEE TCP-17
SHEET TOTALS				606	
PROJECT TOTALS	**13 @ 15"** / **9 @ 18"**	**2.4447**	**1.6**	**2419**	

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