D9CAD212285,8/9/2004,R:\Drainage_summaries.xls

D9CAD212285

COMPUTED BY: BLC DATE: 8/6/2004

CHECKED BY: EEA DATE: 8/6/2004

PROJECT NO.	SHEET NO.
I-2102	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	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CU. YARDS R.C.P.	C.S.P.
9+31 -L-	R	1	OUT	770	766.2	766.2	X					16																
11+73 -L-	L	2		779.1																								
		2	3		776.3	775.3			64																			
11+61 -L-	R	3		778.1																								
		3	1		774.6	766.2					240																	
12+49 -L-	L	4		781.2																								
		4	5		778.9	778.4			16																			
12+58 -L-	L	5		781.5																								
		5	2		778.4	776.3			80																			
12+70 -L-	L	6		781.7																								
		6	5		778.9	778.4			8																			
12+74 -L-	R	7B		782																								
		7B	7		779.8	779.2			4																			
12+75 -L-	R	7		782.1																								
		7	3		779.1	775.1				112																		
14+50 -L-	L	8		789.4																								
		8	9		786.7	785.9			12																			
14+50 -L-	L	9		788.7			X																					
		9	10		785.9	785.6			88																			
14+49 -L-	R	10		788.6																								
		10	7		785.6	779.2			176																			
15+93 -L-	L	11		798.5																								
		11	10		796.2	785.8			152																			
2+18 RAMP D	R	13	OUT	803.7	801.2				24																			
8+00 RAMP C	R	15	OUT	776.1	773					72																		
3+12 RAMP C	R	16	EX	767.6	763.8					40																		
1+50 RAMP C	R	16A		767																								
		16A	17A	767	760.8				24																			
-0+98 RAMP C	R	17	EX	758.6	754.5					16																		
1+24 RAMP C	R	17A		763.5																								
		17A	17		760.8	754.5			224																			
SHEET TOTALS									872	240	240	16																

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. 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	TRAFFIC BEARING 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	BERM DRAINAGE OUTLET STD. 850.10	CONCRETE APRON FOR DI STD. 852.06	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
9+31 -L-	1			1			1																				15.63	CB
11+73 -L-	1			1		1																						CB
11+61 -L-	1			1			1																			0.116		CB
12+49 -L-	1							1	1																			DI
12+58 -L-	1			1		1																				0.065	176.65	CB
12+70 -L-	1			1		1																						CB
12+74 -L-	1							1	1																			DI
12+75 -L-	1			1			1																				44.86	CB
14+50 -L-	1							1	1																			DI
14+50 -L-	1			1		1																						CB
14+49 -L-	1			1			1																					CB
15+93 -L-	1								1															1					DI IN RAISED MONOLITHIC ISLAND
2+18 RAMP D	1			1			1																					CB
8+00 RAMP C	1										1			1														2GI
3+12 RAMP C	1			1									1												0.4465			EGI
1+50 RAMP C																						1						BDO
-0+98 RAMP C	1			1									1												0.4465			EGI
1+24 RAMP C	1			1									1															EGI
SHEET TOTALS	17			12		4	5	3	4		1		3	1								1	1		0.9	0.181	237.14	

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

16