RAL-M5705,7/2/2004,R:\R2237B\proj\plansheets\Drainage_summaries 06_04.xls

COMPUTED BY: WDR DATE:

CHECKED BY: JAB DATE:

PROJECT NO.	SHEET NO.
R-2237B	3-H

RAL-M5705

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)								BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE)												
SIZE								12"	15"	18"	24"	30"	36"	42"	48"	12"	15"	18"	24"		30"		36"		42"		48"	
THICKNESS OR GAUGE																.064	.064	.064	.064	.138	.079		.079		.109		.109	
Sheet 7																												
L 45+50	R	20		1605.94																								
L 45+50	R	20	21		1601.69	1601.33				24																		
L 45+50	R	21		1609.73																								
L 45+50	R	21	22		1601.18	1600.15					76																	
L 45+50	L	22		1606.15																								
L 45+50	L	22	OUT		1600.00	1491.00													200									
L 46+10	C	T1	OUT															40										
L 47+50	R	23		1626.70																								
L 47+50	R	23	21		1621.80	1601.33					196																	
L 48+00	R	24		1630.61																								
L 48+00	R	24	23		1625.71	1621.95					48																	
L 47+50	L	25		1628.30																								
L 47+50	L	25	23		1625.40	1622.70			68																			
L 48+00	L	26		1631.53																								
L 48+00	L	26	25		1628.63	1625.55			48																			
L 48+73	C																											
L 49+50	R	27		1641.34																								
L 49+50	R	27	24		1638.19	1626.21				148																		
L 51+00	R	28		1652.60																								
L 51+00	R	28	27		1649.70	1638.44			148																			
L 52+10	R																											
L 53+00	R	29		1668.11																								
L 53+00	R	29	28		1663.94	1649.85			200																			
L 53+00	R	30		1666.50																								
L 53+00	R	30	29		1664.25	1664.09			8																			
L 54+00	L	31		1671.24																								
L 54+00	L	31	OUT		1668.34	1563.00											240											
Sheet 8																												
L 56+10	L	32		1568.00																								
L 56+10	L	32	OUT		1564.23	1531.00													116									
L 56+17	L																											
L 57+70	L	33		1656.20																								
L 57+70	L	33	32		1652.43	1564.38													176									
L 58+50	R	34		1720.66																								
L 58+50	R	34	OUT		1717.91	1680.00											44											
L 60+00	L	35		1717.99																								
L 60+00	L	35	OUT		1715.09	1712.00			44																			
L 62+05	L	36		1663.27																								
L 62+05	L	36	OUT		1659.00	1655.00															16							
L 63+20	L	37		1702.31																								
L 63+20	L	37	36		1698.04	1659.15															116							
L 64+75	L	38		1754.14																								
L 64+75	L	38	37		1751.39	1699.44											164											
L 63+87	R	39	40		1718.00	1706.00															24							
L 64+50	C	T2	OUT															44										
SHEET TOTALS									516	172	320						448	84	492		156							

STATION	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.	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	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 GRATE STD. 840.22	M.D.I. FRAME WITH TWO GRATES STD. 840.22	J.B. STD. 840.31 OR 840.32	T.B.J.B. STD. 840.46	M.H. FRAME AND COVER STD. 840.54	SPRING BOX STD. 840.41	6" P.V.C. FOR SPRING BOX	36" BDO SPECIAL DETAIL	24" SMOOTH STEEL PIPE, t=0.5"	36" SMOOTH STEEL PIPE, t=0.5"	DROP INLET STD. 840.14	DROP INLET STD. 840.16	CORR. STEEL ELBOWS NO. & SIZE	CONC. COLLARS CL. "B" C.Y. STD. 840.72	FLOWABLE FILL, C.Y.	PIPE REMOVAL LIN. FT.	REMARKS
Sheet 7																																	
L 45+50						1							1				1	1															3GI
L 45+50																																	
L 45+50						1	3.4						1			1																	
L 45+50																																	
L 45+50						1	1												1														J.B. W / SLAB LID
L 45+50																													2@24"				
L 46+10						1																					1	1			2.6		REMOVE TEMP DI, FILL TEMP PIPE
L 47+50						1							1			1																	
L 47+50																																	
L 48+00						1							1			1																	
L 48+00																																	
L 47+50						1								1		1																	
L 47+50																																	
L 48+00						1								1		1																	
L 48+00																																	
L 48+73																															3.3		REMOVE HEADWALL
L 49+50						1								1		1																	
L 49+50																																	
L 51+00						1								1		1																	
L 51+00																																	
L 52+10																															2.7		REMOVE HEADWALL
L 53+00						1								1		1																	
L 53+00																																	
L 53+00						1																					1	1					D.I.
L 53+00																																	
L 54+00						1								1		1																	
L 54+00																													2@15"				
Sheet 8																																	
L 56+10						1													1														J.B. W / SLAB LID
L 56+10																													2@24"				
L 56+17																																53	PIPE REMOVAL
L 57+70						1													1														J.B. W / SLAB LID
L 57+70																													2@24"				
L 58+50						1								1				1															
L 58+50																													2@15"				
L 60+00						1								1		1																	
L 60+00																																	
L 62+05						1													1														J.B. W / SLAB LID
L 62+05																																	
L 63+20						1													1														J.B. W / SLAB LID
L 63+20																																	
L 64+75						1								1				1															
L 64+75																																	
L 63+87																													1@30"				
L 64+50						1																					1	1			2.8		REMOVE TEMP DI, FILL TEMP PIPE
																													4@15"				
																													6@24"				
SHEET TOTALS						21	4.4						4	9		10	1	3	5								3	3	1@30"		11.4	53	

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