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

RAL-M5705

COMPUTED BY: WDR DATE:

CHECKED BY: JAB DATE:

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

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	24" .138	30" .079	36" .079	42" .109	48" .109	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	24" SIDE DRAIN PIPE
Sheet 5																											
L 22+25	R	1			1451.00																						
L 22+25	R	1	2		1451.00	1441.00													16								
L 22+25	R	2		1445.75																							
L 22+25	R	2	OUT		1440.00	1406.00																					
L 22+34	C																										
L-24+83	C																										
L 25+55	R	3	4		1453.50	1452.50					16																
L 25+50	R	4		1456.27																							
L 25+50	R	4	2		1452.00	1440.50							320														
L 26+25	R	5		1473.53																							
L 26+25	R	5	4		1468.78	1452.50													72								
L 28+00	R	6		1485.08																							
L 28+00	R	6	7		1482.18	1481.70			48																		
L 28+50	R	7		1487.61																							
L 28+50	R	7	8		1481.55	1477.32											32										
L 28+50	R	8		1481.32																							
L 28+50	R	8	5		1476.57	1468.93					224																
Sheet 6																											
L 30+12	C																										
L 32+00	R	9		1508.54																							
L 32+00	R	9	10		1505.64	1498.25											32										
L 32+00	R	10		1502.25																							
L 32+00	R	10	8		1498.00	1477.07				348																	
L 34+14	C																										
L 35+50	R	11		1529.72																							
L 35+50	R	11	12		1525.47	1525.15				32																	
L 35+50	R	12		1536.01																							
L 35+50	R	12	13		1525.00	1524.28				60																	
L 35+50	L	13		1537.04																							
L 35+50	L	13	14		1524.13	1465.15												156									
L 36+43	L	14		1468.27																							
L 36+43	L	14	OUT		1465.00	1459.00												72									
L 38+50	R	15		1549.98																							
L 38+50	R	15	16		1545.23	1545.00					32																
L 38+50	R	16		1558.99																							
L 38+50	R	16	17		1544.85	1540.15					96																
L 38+50	L	17		1543.77																							
L 38+50	L	17	18		1540.00	1496.15													140								
L 39+40	C																										
L 39+55	L	18		1499.77																							
L 39+55	L	18	OUT		1496.00	1494.00													12								
L 40+50	R	19		1568.36																							
L 40+50	R	19	15		1564.11	1545.73				200																	
SHEET TOTALS									48	640	368		320				64	228	240								

STATION	LOC.	FROM	TO	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"	CORR. STEEL ELBOWS NO. & SIZE	CONC. COLLARS CL. "B" C.Y. STD. 840.72	FLOWABLE FILL, C.Y.	PIPE REMOVAL LIN. FT.	REMARKS
Sheet 5																																	
L 22+25	R	1																															B.D.O.
L 22+25	R	1	2																										1@24"				
L 22+25	R	2				1	0.75						1					1															
L 22+25	R	2	OUT																									160					TRENCHLESS CONSTRUCTION
L 22+34	C																														16.2		
L-24+83	C																														27		
L 25+55	R	3	4																														
L 25+50	R	4				1													1														J.B. W / SLAB LID
L 25+50	R	4	2																														
L 26+25	R	5				1							1					1															
L 26+25	R	5	4																														
L 28+00	R	6				1								1		1																	
L 28+00	R	6	7																														
L 28+50	R	7				1	0.91							1		1																	
L 28+50	R	7	8																														
L 28+50	R	8				1							1				1	1															3GI
L 28+50	R	8	5																														
Sheet 6																																	
L 30+12	C																														3.1		REMOVE HEADWALL
L 32+00	R	9				1								1		1																	
L 32+00	R	9	10																														
L 32+00	R	10				1							1				1	1															3GI
L 32+00	R	10	8																														
L 34+14	C																														2.9		REMOVE HEADWALL
L 35+50	R	11				1							1				1	1															3GI
L 35+50	R	11	12																														
L 35+50	R	12				1	5	0.86						1		1																	
L 35+50	R	12	13																														
L 35+50	L	13				1	5	2.76						1		1																	
L 35+50	L	13	14																										2@18"				
L 36+43	L	14				1													1														J.B. W/ SLAB LID
L 36+43	L	14	OUT																										2@18"				
L 38+50	R	15				1							1				1	1															3GI
L 38+50	R	15	16																														
L 38+50	R	16				1	5	3.99					1			1																	
L 38+50	R	16	17																														
L 38+50	L	17				1													1														J.B. W/ SLAB LID
L 38+50	L	17	18																														
L 39+40	C																														13.5		
L 39+55	L	18				1													1														J.B. W/ SLAB LID
L 39+55	L	18	OUT																														
L 40+50	R	19				1							1				1	1															3GI
L 40+50	R	19	15																														
																													1@24"				
SHEET TOTALS						17	17	8					8	5		6	5	7	4						0			160	4@18"		62.7		

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