RAL-M5705

COMPUTED BY:	WDR	DATE:
CHECKED BY:	JAB	DATE:

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

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"
Sheet 8															
L 63+90	R	40		1710.00											
L 65+00	R	41		1756.00											
L 65+00	R	41	40		1753.25	1707.25									
Sheet 9															
L 67+40	C	42		1774.24											
L 67+85	R	42A													
L 67+85	R	42A	42		1775.60	1767.84								104	
L 68+00	L	43		1777.93											
L 68+00	L	43	42		1775.18	1769.67			68						
L 68+50	R	44		1780.00											
L 68+50	R	44	OUT		1777.00	1775.70				64					
L 71+00	R	45		1794.95											
L 71+00	R	45	44		1790.70	1777.15				248					
L 71+00	R	46		1798.74											
L 71+00	R	46	45		1795.84	1790.95									
L 72+00	L	47		1804.33											
L 72+00	L	47	OUT		1798.93	1798.00			12						
L 74+15	C	48		1809.92											
L 74+53	R	49		1817.52											
L 74+53	R	49	48		1807.63	1804.02							56		
L 74+53	R	50		1813.73											
L 74+53	R	50	49		1807.98	1807.78							28		
L 74+53	R	51	50		1818.00	1808.13									
L 78+00	L	52		1833.08											
L 78+00	L	52	OUT		1829.58	1825.50									
L 78+54	L														
L 78+75	L	53		1837.00											
L 78+75	L	53	52		1834.25	1829.73			76						
L 78+80	R														
Sheet 10															
L 83+50	L	54		1856.60											
L 83+50	L	54	55		1853.70	1852.92			84						
L 83+50	R	55		1855.52											
L 83+50	R	55	OUT		1852.52	1838.00									
L 85+00	R	56		1861.65											
L 85+00	R	56	55		1858.65	1852.67				148					
L 86+00	R	57		1865.42											
L 86+00	R	57	56		1862.42	1858.80				100					
L 86+41	L														
L 86+60	L	58		1865.54											
L 86+60	L	58	OUT		1862.79	1862.00			32						
L 89+50	C	T3													
SHEET TOTALS									272	560			84	104	

STATION	BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE) 12" .064	15" .064	18" .064	24" .064	24" .138	30" .079	30"	36" .079	36"	42" .109	42"	48" .109	48"	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	24" SIDE DRAIN PIPE
L 65+00 (41–40)		112														
L 71+00 (46–45)		28														
L 74+53 (51–50)								16								
L 78+00 (52–OUT)		12														
L 83+50 (55–OUT)			84													
SHEET TOTALS		152	84					16								

STATION	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
L 63+90 (40)			1						
L 65+00 (41)			1						
L 67+40 (42)			1	1.4					
L 67+85 (42A)	4.5								
L 68+00 (43)			1						
L 68+50 (44)			1						
L 71+00 (45)			1						
L 71+00 (46)			1						
L 72+00 (47)			1	0.4					
L 74+15 (48)			1	0.9					
L 74+53 (49)			1	4.89					
L 74+53 (50)			1	0.75					
L 78+00 (52)			1						
L 78+75 (53)			1						
L 83+50 (54)			1						
L 83+50 (55)			1						
L 85+00 (56)			1						
L 86+00 (57)			1						
L 86+60 (58)			1						
L 89+50 (T3)			1						
SHEET TOTALS	5		19	8					

STATION	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
L 63+90 (40)							1														J.B. W / SLAB LID
L 65+00 (41)		1				1															
L 67+40 (42)								1													T.B.J.B.
L 67+85 (42A)																					HEADWALL
L 68+00 (43)		1				1															
L 68+50 (44)		1				1															
L 71+00 (45)	1				1	1															3GI
L 71+00 (46)		1		1																	
L 72+00 (47)		1		1																	
L 74+15 (48)								1													J.B. W / SLAB LID
L 74+53 (49)		1		1																	
L 74+53 (50)	1				1	1															3GI
L 74+53 (51–50)																	2@36"				B.D.O. FOR 36" CSP
L 78+00 (52)		1				1															
L 78+54																				65	PIPE REMOVAL
L 78+75 (53)		1				1															
L 78+80																				42	PIPE REMOVAL
L 83+50 (54)		1		1																	
L 83+50 (55)		1				1															
L 85+00 (56)		1				1															
L 86+00 (57)		1				1															
L 86+41																				28	PIPE REMOVAL
L 86+60 (58)		1				1															
L 89+50 (T3)															1	1					REMOVE TEMP DI
SHEET TOTALS	2	13		4	2	11	1	2				0			1	1	2@36"			135	

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