RAL-WS033

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PROJECT NO.	SHEET NO.
U-3615B	3D-16

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout.
See "Standard Specifications For Roads and Structures, Section 300-5".**

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

STATION	LOCATION (LT, RT, OR CL)'	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL
-L- 340+10	LT	226		861.86	856.86		
-L- 338+60	LT	226	224		858.86	855.48	
-L- 341+50	LT	228		866.92	863.92		
-L- 338+60	LT	228	226		863.92	858.86	
-L- 343+00	LT	230		872.44	869.44		
-L- 338+60	LT	230	228		869.44	863.92	
-L- 343+00	CL	229		873.17	870.17		
-L- 343+00	LT	229	230		870.17	869.44	
-L- 343+35	CL	229A		874.38	871.38		
-L- 343+00	CL	229A	229		871.38	870.17	
-L- 344+36	CL	233		878.17	874.46		
-L- 343+35	CL	233	229A		874.46	871.38	
-L- 344+36	LT	234		877.59	874.59		
-L- 344+36	CL	234	233		874.59	874.46	
-L- 345+00	CL	233A		880.56	877.56		
-L- 344+36	CL	233A	233		877.56	874.46	
-L- 345+00	CL	231		884.24	880.57		
-L- 346+00	CL	231	233A		880.57	877.56	
-L- 346+00	LT	232		883.66	880.66		
-L- 346+00	CL	232	231		880.66	880.57	
-L- 336+69	RT	284		855.82	852.8		
-L- 337+55	RT	223		857.77	854.77		
-L- 338+65	RT	223	225B		854.77	854.73	
-L- 338+65	RT	225B		857.77	852.4		
-L- 337+62	RT	285		858.22	856.6		
-L- 337+51	LT	285A		858.18	850.44		
-L- 336+83	LT	285B		858.49	849.51		
-L- 337+67	RT	223B		856.4	852.9		
-L- 337+64	RT	223B	225B		852.9	852.4	
-L- 339+55	RT	225		860.42	857.17		
-L- 337+64	RT	225	225B		857.17	854.52	
-L- 340+00	RT	287		861.69	858.04		
-L- 339+55	RT	287	225		858.04	857.17	
-L- 340+01	RT	225A		861.76	858.76		
-L- 340+00	RT	225A	287		858.76	858.04	
-L- 341+00	RT	227		865.09	862.09		
-L- 340+00	RT	227	287		862.09	858.04	
-L- 342+50	RT	231A		871.4	868.4		
-L- 341+00	RT	231A	227		868.4	862.09	
-L- 343+30	RT	289		875.92	871.59		
-L- 342+50	RT	289	231A		871.59	868.4	
-L- 344+15	RT	289A					
SHEET TOTALS							

	DRAINAGE PIPE (RCP, CSP, CAAP, HDPE, or PVC)								DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	C.S. PIPE								R.C. PIPE CLASS III							
SIZE	12"	15"	18"	24"	30"	36"	42"	48"					12"	15"	18"	24"	30"	36"	42"	48"	12"	15"	18"	24"	30"	36"	42"	48"
THICKNESS OR GAUGE													.064	.064	.064	.064	.079	.079	.109	.109								

STATION	R.C. PIPE CLASS IV 12"	15"	18"	24"	30"	36"	42"	48"	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	ENDWALLS STD. 838.01 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YARDS R.C.P.	C.S.P.	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	CONCRETE TRANSITIONAL SECTION DROP INLET	CATCH BASIN
-L- 340+10													1			1		1			
-L- 338+60		152																			
-L- 341+50													1			1		1			
-L- 338+60		140																			
-L- 343+00													1			1		1			
-L- 338+60		152																			
-L- 343+00													1							1	
-L- 343+00		36																			
-L- 343+35													1							1	
-L- 343+00		36																			
-L- 344+36													1							1	
-L- 343+35		104																			
-L- 344+36													1			1		1			
-L- 344+36		32																			
-L- 345+00													1							1	
-L- 344+36		64																			
-L- 345+00													1							1	
-L- 346+00		100																			
-L- 346+00													1			1		1			
-L- 346+00		32																			
-L- 336+69													1								
-L- 337+55													1			1	1				
-L- 338+65		12																			
-L- 338+65													1			1	1				
-L- 337+62													1	1							
-L- 337+51													1	2.1							
-L- 336+83													1	3.4							
-L- 337+67													1								
-L- 337+64					20																
-L- 339+55													1			1			1		
-L- 337+64			192																		
-L- 340+00													1								
-L- 339+55			48																		
-L- 340+01													1			1			1		
-L- 340+00		36																			
-L- 341+00													1			1			1		
-L- 340+00		100																			
-L- 342+50													1			1			1		
-L- 341+00		152																			
-L- 343+30													1								
-L- 342+50		84																			
-L- 344+15																					
SHEET TOTALS		1232	240		20								23	6.5		11	2	5	4	5	

STATION	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATE STD. 840.16	G.D.I. TYPE "A" STD. 840.17 OR 840.26	G.D.I. TYPE "B" STD. 840.18 OR 840.27	G.D.I. (N.S. SAG) FRAME W/ GRATE STD. 840.24	G.D.I. (N.S. SAG) FRAME W/ 2 GRATES STD. 840.24	G.D.I. (N.S. FLAT) FRAME W/ 2 GRATES STD. 840.29	J.B. STD. 840.31 OR STD. 840.32	T.B.J.B. STD. 840.34	M.H. FRAME AND COVER STD. 840.54	36" PIPE END SECTION	GENEREC PIPE ITEM - REMOVE AND RESET FES	ADJUST C.B.	15" SLUICE GATE	18" SLUICE GATE	24" SLUICE GATE	30" SLUICE GATE	MODIFIED CONCRETE FLUME	PREFORMED SCOUR HOLE	FLOWABLE FILL CY	CONC. & BRICK PIPE PLUG STD. 840.71 CY	CONC. COLLARS CL. "B" STD. 840.72 CY	PIPE REMOVAL LIN. FT.	REMARKS
-L- 340+10																								
-L- 338+60																								
-L- 341+50																					0.09			REMOVE 2-CB
-L- 338+60																								
-L- 343+00																								
-L- 338+60																								
-L- 343+00	1	1																						
-L- 343+00																								
-L- 343+35	1	1																						
-L- 343+00																								
-L- 344+36	1	1																						
-L- 343+35																								
-L- 344+36																					0.045			REMOVE 2-CB
-L- 344+36																								
-L- 345+00	1	1																						
-L- 344+36																								
-L- 345+00	1	1																						
-L- 346+00																								
-L- 346+00																								
-L- 346+00																								
-L- 336+69									1															
-L- 337+55																								
-L- 338+65																								
-L- 338+65																						0.656		REMOVE HW
-L- 337+62									1	1											0.045			REMOVE 2-CB
-L- 337+51									1	1													13	15" CONC
-L- 336+83									1	1														
-L- 337+67	1	1																						
-L- 337+64																								
-L- 339+55																								
-L- 337+64																								
-L- 340+00									1	1														
-L- 339+55																					0.045			
-L- 340+01																								
-L- 340+00																							69	15"CONC, REMOVE 2-CB
-L- 341+00																								
-L- 340+00																								
-L- 342+50																					0.045			
-L- 341+00																								
-L- 343+30									1	1											0.09			REMOVE 2-CB
-L- 342+50																					0.09			REMOVE CB
-L- 344+15																					0.045			REMOVE CB
SHEET TOTALS	6	6							6	5											0.495	0.656	82	

ABBREVIATIONS

C.B.	CATCH BASIN
N.D.I.	NARROW DROP INLET
D.I.	DROP INLET
G.D.I.	GRATED DROP INLET
G.D.I.(N.S.)	(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