COMPUTED BY: GSBLELL DATE: 3/29/2012

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PROJECT NO.	SHEET NO.
R-2519B	3D-15

RD266410

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)

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

STATION / SIZE / THICKNESS OR GAUGE	LOCATION (LT, RT, OR CL)'	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	SIDE DRAIN PIPE (RCP, CSP, CAAP, HDPE, or PVC) 12"	15"	18"	24"	30"	36"	42"	48"	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	C.S. PIPE 12" .064	15" .064	18" .064	24" .064	30" .079	36" .079	42" .109	48" .109
-L- STA. 302+59.65	LT	2519	1517		2631.00	2623.55																			28'		
-Y27- STA. 13+10	LT	2504		2707.67																							
-Y27- STA. 13+57	LT	2501	2504		2712.42	2704.67			88'																		
-DR11- STA. 11+25	RT	2502		2721.11																							
-DR11- STA. 10+73	RT	2503		2716.11																							
-DR11- STA. 10+99	RT	2502	2503		2718.11	2713.11															48'						
-DR11- STA. 10+74.2	RT	2503	2504		2713.11	2704.67															52'						
-Y27- STA. 12+85.83	LT	2504	2505		2704.67	2704..00			48'																		
-DR11- STA. 13+90	RT	2509		2709.32																							
-DR11- STA. 13+91	RT	2508	2509		2704.70	2704.66			12'																		
-L- STA. 304+75	RT	2510		2689.97																							
-L- STA. 305+04.61	RT	2509	2510		2704.66	2686.97															84'						
-L- STA. 305+03.62	RT	2511		2692.78																							
-L- STA. 304+89.35	RT	2511	2510		2689.78	2686.97				28'																	
-L- STA. 304+75	RT	2510	2512		2686.47	2689.95																					
-L- STA. 305+12.41	CL	2512		2694.43																							
-L- STA. 304+76	CL	2512	2514		2689.95	2688.68																					
-L- STA. 305+50	CL	2514		2692.92																							
-L- STA. 305+50	LT	2514	2515		2688.68	2664.56																	96'				
-L- STA. 305+98	CL	2513		2692.15																							
-L- STA. 305+99	CL	2513	2514		2689.15	2688.95																					
-L- STA. 307+38	RT																										
-L- STA. 307+39	RT	2523		2679.16																							
-L- STA. 307+39	CL	2532		2678.46																							
-L- STA. 307+39	RT	2532	2523		2674.10	2675.41																					
-L- STA. 311+24.13	RT	2523	2524		2675.41	2667.60																					
-L- STA. 311+97	RT	2524		2671.35																							
-L- STA. 311+97	RT	2524	2525		2667.60	2666.76																					
-L- STA. 311+97	CL	2525		2671.00																							
-L- STA. 311+97	LT	2525	2526		2666.76	2664.56																					
-L- STA. 311+97	LT	2526		2667.36																							
-L- STA. 313+18.5	LT	2526	2527		2664.56	2652.54				240'																	
-L- STA. 314+40	LT	2527		2655.79																							
-Y29- STA. 13+19	RT	2533		2457.09																							
-Y29- STA. 13+44.50	RT	2533	2527		2654.09	2652.54				56'																	
-L- STA. 315+25	LT	2527	2601		2651.04	2641.71																					
-Y29- STA. 13+00	RT	2528	2533		2459.33	2654.09				40'																	
-L- STA. 312+70	CL																										
-DR12- STA. 10+56	LT	2529							52'																		
-DR12- STA. 11+81	LT	2531							60'																		
-Y30- STA. 11+36	RT	2530							32'																		
-L- STA. 314+51	LT	2534																									
-L- STA. 314+52	LT	2534	2527		2651.84	2651.54		14'																			
SHEET 26																											
-L- STA. 316+10	LT	2601		2646.51																							
-L- STA. 317+05	LT	2601	2602		2641.21	2634.05						188'															
-L- STA. 318+00	LT	2602		2639.35																							
-L- STA. 319+40	LT	2602	2603		2634.05	2623.52						280'															
-L- STA. 320+80	LT	2603		2628.77																							
-L- STA. 320+80	CL	2630		2626.99																							
-L- STA. 320+80	LT	2630	2603		2622.75	2621.77																					
-L- STA. 320+80	RT	2605		2629.70																							
-L- STA. 320+80	RT	2605	2630		2626.95	2622.75																					
-L- STA. 321+30	LT	2603	2604		2623.52	2621.38						100'															
-L- STA. 321+80	LT	2604		2626.63																							
-L- STA. 321+80	LT	2604	2606		2621.38	2611.39																		52'			
-Y31- STA.12+00	RT	2607			2614.86	2607.61																	72'				
-Y30- STA.12+56	RT	2608							32'																		
-Y30- STA.12+02	LT	2609		2639.25																							
SHEET TOTALS								14'	324'	364'		568'									184'		168'	52'	28'		

STATION	R.C. PIPE CLASS III 12"	15"	18"	24"	30"	36"	42"	48"	R.C. PIPE CLASS IV 12"	15"	18"	24"	30"	36"	42"	48"	36 " R.C. PIPE (CLASS V)	42 " R.C. PIPE (CLASS V)	30" WELDED PIPE, .500" THICK, GRADE B	36" WELDED PIPE, .500" THICK, GRADE B	42" WELDED PIPE, .625" THICK, GRADE B	48" WELDED PIPE, .625" THICK, GRADE B	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- STA. 302+59.65																							2.8										
-Y27- STA. 13+10																									1			1		1			
-Y27- STA. 13+57																																	
-DR11- STA. 11+25																									1			1			1		
-DR11- STA. 10+73																									1			1			1		
-DR11- STA. 10+99																																	
-DR11- STA. 10+74.2																																	
-Y27- STA. 12+85.83																																	
-DR11- STA. 13+90																									1			1		1			
-DR11- STA. 13+91																																	
-L- STA. 304+75																									1								
-L- STA. 305+04.61																																	
-L- STA. 305+03.62																									1								
-L- STA. 304+89.35																																	
-L- STA. 304+75				60'																													
-L- STA. 305+12.41																									1			1		1			1
-L- STA. 304+76				72'																													
-L- STA. 305+50																									1			1		1			1
-L- STA. 305+50																																	
-L- STA. 305+98																									1			1		1			1
-L- STA. 305+99										48'																							
-L- STA. 307+38																																	
-L- STA. 307+39																									1								
-L- STA. 307+39																									1								
-L- STA. 307+39		44'																															
-L- STA. 311+24.13										148'																							
-L- STA. 311+97																									1								
-L- STA. 311+97										32'																							
-L- STA. 311+97																									1			1			1		
-L- STA. 311+97										68'																							
-L- STA. 311+97																									1								
-L- STA. 313+18.5																																	
-L- STA. 314+40																									1								
-Y29- STA. 13+19																									1								
-Y29- STA. 13+44.50																																	
-L- STA. 315+25												168'																					
-Y29- STA. 13+00																																	
-L- STA. 312+70																																	
-DR12- STA. 10+56																																	
-DR12- STA. 11+81																																	
-Y30- STA. 11+36																																	
-L- STA. 314+51																									1								
-L- STA. 314+52																																	
SHEET 26																																	
-L- STA. 316+10																									1	0.3							
-L- STA. 317+05																																	
-L- STA. 318+00																									1	0.3							
-L- STA. 319+40																																	
-L- STA. 320+80																									1	2							
-L- STA. 320+80																									1								
-L- STA. 320+80										40'																							
-L- STA. 320+80																									1								
-L- STA. 320+80										40'																							
-L- STA. 321+30																																	
-L- STA. 321+80																									1	0.25							
-L- STA. 321+80																																	
-Y31- STA.12+00																																	
-Y30- STA.12+56																																	
-Y30- STA.12+02																									1								
SHEET TOTALS		44'		132'						376'		168'											2.800		24	2.85		8		5	3		3

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. TYPE "D" STD. 840.19 OR 840.28	SPRING BOX STD. 840.41	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.29	T.B.G.D.I. STD. 840.35	T.B.J.B. STD. 840.34	J.B. STD. 840.31 OR 840.32	PARALLEL PIPE END SECTION STD. 310.02 OR 310.04	M. H. FRAME AND COVER STD. 840.54	OT CATCH BASIN OR STD. 840D04 (SHEET 2C-10)	PREFORMED SCOUR HOLE	FLOWABLE FILL	J.B. STD. 840.52	G.D.I. (N.S.) FRAME WITH GRATE STD. 840.24	CS PIPE ELBOWS NO. & SIZE	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	CONC. COLLARS CL. "B" C.Y. STD. 840.72	PIPE REMOVAL LIN. FT.	REMARKS
-L- STA. 302+59.65																			2@36"				
-Y27- STA. 13+10																							
-Y27- STA. 13+57																							
-DR11- STA. 11+25																							
-DR11- STA. 10+73																							
-DR11- STA. 10+99																							
-DR11- STA. 10+74.2																							
-Y27- STA. 12+85.83																							
-DR11- STA. 13+90																							
-DR11- STA. 13+91																							
-L- STA. 304+75				1			1															69'	REMOVE EXIST. 15" CM PIPE
-L- STA. 305+04.61																							
-L- STA. 305+03.62				1			1																
-L- STA. 304+89.35																							
-L- STA. 304+75																							
-L- STA. 305+12.41																							
-L- STA. 304+76																							
-L- STA. 305+50																							
-L- STA. 305+50																			2@24"				
-L- STA. 305+98																7						100'	PLUG & FILL EXIST. 18" CMP AND REMOVE HW
-L- STA. 305+99																							
-L- STA. 307+38																							REMOVE EXIST. DI
-L- STA. 307+39				1				1															
-L- STA. 307+39											1		1										
-L- STA. 307+39																							
-L- STA. 311+24.13																							
-L- STA. 311+97				1				1															
-L- STA. 311+97																							
-L- STA. 311+97																							
-L- STA. 311+97																							
-L- STA. 311+97				1			1																
-L- STA. 313+18.5																							
-L- STA. 314+40				1			1																
-Y29- STA. 13+19				1			1																
-Y29- STA. 13+44.50																							
-L- STA. 315+25																4							PLUG & FILL EXIST. 18" CM PIPES
-Y29- STA. 13+00																							
-L- STA. 312+70																						33'	REMOVE EXIST. 15" CM PIPE
-DR12- STA. 10+56																							
-DR12- STA. 11+81																							
-Y30- STA. 11+36																							
-L- STA. 314+51						1																	
-L- STA. 314+52																							
SHEET 26																							
-L- STA. 316+10				1			1																
-L- STA. 317+05																43							
-L- STA. 318+00				1				1								43							
-L- STA. 319+40																							
-L- STA. 320+80				1				1															
-L- STA. 320+80											1		1										
-L- STA. 320+80																							
-L- STA. 320+80					1			1															
-L- STA. 320+80																							
-L- STA. 321+30																							
-L- STA. 321+80				1				1															
-L- STA. 321+80																							
-Y31- STA.12+00																							
-Y30- STA.12+56																							
-Y30- STA.12+02				1			1																
SHEET TOTALS				12	1	1	7	6			2		2			97			2@24",2@36"			202'	