COMPUTED BY:	RWP	DATE:	12/4/2017
CHECKED BY:	RHT	DATE:	1/18/2018

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
R-2501C	3D-1

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".

STATEWIDE
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	SIDE DRAIN PIPE (RCP, CSP, CAAP, HDPE, or PVC) SIZE	12"	15"	18"	24"	30"	36"	42"	48"	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE
								THICKNESS OR GAUGE												
-L- STA 1142+90	CL	401																		
		401	OUT		321.8	321.1														
-L- STA 1143+31	LT	402								40										
-L- STA 1134+41	LT	403								32										
-L- STA 1134+41	LT	404																		
		IN	404		324.7	324.5														
-L- STA 1146+32	RT	501								32										
-L- STA 1148+12	CL	502																		
		502	OUT		321.4	319.6														
-L- STA 1148+17	CL	503																		
		503	OUT		321.4	319.6														
-L- STA 1150+30	RT	504								32										
-L- STA 1150+62	LT	505								32										
-L- STA 1153+60	RT	506								32										
-L- STA 1154+23	CL	507																		
		507	OUT		323.0	322.6														
-L- STA 1154+27	CL	508																		
		508	OUT		323.0	322.6														
-L- STA 1157+20		509									32									
-L- STA 1160+30	RT	601									44									
-L- STA 1161+65	RT	602									44									
-L- STA 1166+51	CL	604																		
		604	OUT		327.7	312.0														
-Y- STA 10+62	CL	605															X		X	X
		605	OUT		334.7	332.8					68									
-L- STA 1170+85	LT	607		349.2	343.4															
		607	606		343.4	343.0							40							
-L- STA 1171+00	RT	608																		
		608	607		344.5	343.4														
-L- STA 1172+00	LT	609		354.3	351.0															
		609	607		351.0	343.4														
-L- STA 1173+32	LT	701		359.2	356.0															
		701	609		356.0	351.0														
-Y1- STA 12+50	RT	702								28										
-L- STA 1176+03	LT	703		364.7	361.7															
		703	701		361.7	356.2														
-L- STA 1178+18	LT	704		365.5	362.7															
		704	703		362.7	361.7														
-L- STA 1179+10	LT	705		365.6	362.8															
		705	706		362.8	361.6														
-L- STA 1180+00	LT	706		365.9	360.4															
		706	707		360.4	360.3							24							
-L- STA 1180+00	RT	708																		
		708	706		360.9	360.4														
-L- STA 1181+40	LT	709		366.3	363.6															
		709	706		363.6	361.6														
-Y4- STA 10+55	LT	710		366.8	364.0															
		710	709		364.0	363.6														
-L- STA 1190+35	LT	801								28										
-L- STA 1191+20	CL	802																		
		802	OUT		358.9	358.0														
-L- STA 1193+52	LT	803								40										
-L- STA 1194+29	LT	804								44										
-L- STA 1196+24	RT	805								32										
-L- STA 1196+84	CL	806																		
		806	OUT		355.9	350.9														
-L- STA 1199+98	RT	901								48										
-L- STA1201+90	RT	902								36										
-L- STA 1202+55	CL	903																		
		903	904		347.0	345.9														
-L- STA 1202+55	LT	904		355.9	345.9															
		904	905		345.9	345.0							28							
-L- STA 1205+47	CL	906																		
		906	OUT		353.6	353.2														
-L- STA 1205+53	CL	907																		
		907	OUT		353.6	353.2														
-L- STA 1208+15	RT	908										44								
-L- STA 1212+51	RT	909										48								
-L- STA 1213+60	RT	910										44								
-L- STA 1206+98	RT	911										44								
SHEET TOTALS										456	188	180	92							

STATION	C.S. PIPE SIZE	12"	15"	18"	24"	30"	36"	42"	48"	R.C. PIPE CLASS III SIZE	12"	15"	18"	24"	30"	36"	42"	48"	R.C. PIPE CLASS IV SIZE	12"	15"	18"	24"	30"	36"	42"	48"
	THICKNESS OR GAUGE	.064	.064	.064	.064	.079	.079	.109	.109																		
-L- STA 1142+90	CL																										
													140														
-L- STA 1143+31	LT																										
-L- STA 1134+41	LT																										
-L- STA 1134+41	LT																										
													20														
-L- STA 1146+32	RT																										
-L- STA 1148+12	CL																										
																						128					
-L- STA 1148+17	CL																										
																						128					
-L- STA 1150+30	RT																										
-L- STA 1150+62	LT																										
-L- STA 1153+60	RT																										
-L- STA 1154+23	CL																										
																							144				
-L- STA 1154+27	CL																										
																							144				
-L- STA 1157+20																											
-L- STA 1160+30	RT																										
-L- STA 1161+65	RT																										
-L- STA 1166+51	CL																										
													248														
-Y- STA 10+62	CL																										
-L- STA 1170+85	LT																										
-L- STA 1171+00	RT																										
																							104				
-L- STA 1172+00	LT																										
																						116					
-L- STA 1173+32	LT																										
																						132					
-Y1- STA 12+50	RT																										
-L- STA 1176+03	LT																										
																				272							
-L- STA 1178+18	LT																										
																				216							
-L- STA 1179+10	LT																										
											92																
-L- STA 1180+00	LT																										
-L- STA 1180+00	RT																										
															112												
-L- STA 1181+40	LT																										
											140																
-Y4- STA 10+55	LT																										
											140																
-L- STA 1190+35	LT																										
-L- STA 1191+20	CL																										
														140													
-L- STA 1193+52	LT																										
-L- STA 1194+29	LT																										
-L- STA 1196+24	RT																										
-L- STA 1196+84	CL																										
														136													
-L- STA 1199+98	RT																										
-L- STA1201+90	RT																										
-L- STA 1202+55	CL																										
															116												
-L- STA 1202+55	LT																										
-L- STA 1205+47	CL																										
																						112					
-L- STA 1205+53	CL																										
																						112					
-L- STA 1208+15	RT																										
-L- STA 1212+51	RT																										
-L- STA 1213+60	RT																										
-L- STA 1206+98	RT																										
SHEET TOTALS											372	408	276	228						488	728	392					

STATION	** * R.C. PIPE (CLASS V)	**** RC PIPE CULVERTS, CONTRACTOR DESIGN	***** RC PIPE CULVERTS, CONTRACTOR DESIGN	ENDWALLS STD. 838.01 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YARDS R.C.P.	C.S.P.	QUANTITIES FOR PAYMENT USE STRUCTURES PER EACH (0' THRU 5.0')	LIN. FT. A 5.0' THRU 10.0'	LIN. FT. B 10.0' AND ABOVE	*TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' +(1.3 X COL. 'B')	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES, AND HOOD STD. 840.03 TYPE OF GRATE E	F	G	CONCRETE TRANSITIONAL SECTION DROP INLET	CATCH BASIN	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATES 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	G.D.I. FRAME WITH GRATE STD. 840.20	G.D.I. FRAME WITH TWO GRATES STD. 840.29	G.D.I. (N.S.) FRAME WITH GRATE STD. 840.24	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	J.B. STD. 840.31 OR 840.32	T.B.J.B STD. 840.34	BERM DRAIN OUTLET (SY) STD. 850.10 AND 850.11	FLOWABLE FILL (CY)	SIDE DRAIN 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 1142+90																																				
																																			54	REMOVE EXISTING HEADWALL
-L- STA 1143+31																																				
-L- STA 1134+41																																				
-L- STA 1134+41																																		0.4465		
-L- STA 1146+32																																				
-L- STA 1148+12																																				
																																			64	REMOVE EXISTING HEADWALL
-L- STA 1148+17																																				
-L- STA 1150+30																																				
-L- STA 1150+62																																			14	
-L- STA 1153+60																																				
-L- STA 1154+23																																				
-L- STA 1154+27																																				
																																			62	REMOVE EXISTING HEADWALL
-L- STA 1157+20																																			25	
-L- STA 1160+30																																			27	
-L- STA 1161+65																																				
-L- STA 1166+51																																				
																																			75	
-Y- STA 10+62																																				
																																			53	
-L- STA 1170+85										1	0.8								1			1													
-L- STA 1171+00																																				
																																			46	
-L- STA 1172+00										1									1			1														
																															9				20	FILL EX. 18"/24" @ 1171+44 w/FLOWABLE FILL
-L- STA 1173+32										1									1			1														
																																			57	
-Y1- STA 12+50																																			20	
-L- STA 1176+03										1									1			1														
-L- STA 1178+18										1									1			1														
-L- STA 1179+10										1									1			1														
-L- STA 1180+00										1	0.5								1			1														
-L- STA 1180+00																																				
																																			65	REMOVE EXISTING HEADWALL
-L- STA 1181+40										1									1			1														
-Y4- STA 10+55										1									1			1														
-L- STA 1190+35																																				
-L- STA 1191+20																																				
																															3					FILL EX. 15" @ 1191+83 w/FLOWABLE FILL
-L- STA 1193+52																																				
-L- STA 1194+29																																				
-L- STA 1196+24																																			22	
-L- STA 1196+84																																				
																																			81	REMOVE EXISTING HEADWALL
-L- STA 1199+98																																			73	
-L- STA1201+90																																			21	
-L- STA 1202+55																																				
																															12				48	FILL EX. 24" @ 1202+32 w/FLOWABLE FILL
-L- STA 1202+55										1	5								1			1														
-L- STA 1205+47																																				
-L- STA 1205+53																																				
-L- STA 1208+15																															5				45	FILL EX. 18" @ 1208+60 w/FLOWABLE FILL
-L- STA 1212+51																															3				78	FILL EX. 15" @ 1211+10 w/FLOWABLE FILL
-L- STA 1213+60																																			46	
-L- STA 1206+98																																				
SHEET TOTALS										10	6.3								10			10									32			0.4465	996	

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