COMPUTED BY: RWP DATE: 12/4/2017

CHECKED BY: RHT DATE: 1/22/2018

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

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

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) 12"	15"	18"	24"	30"	36"	42"	48"	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE
SIZE / THICKNESS OR GAUGE																			
-L- STA 1262+69	LT	1305		407.6	404.6														
		1305	1306		404.6	404.3													
-L- STA 1266+94	LT	1307		403.6	400.6														
		1307	1308		400.6	400.2													
-L- STA 1267+29	RT	1309							56										
-L- STA 1267+66	RT	1401																	
		1401	OUT		400.1	399.9			72										
-L- STA 1268+00	LT	1402		402.6	399.6														
		1402	1403		399.6	398.5													
-L- STA 1269+50	LT	1403		401.5	397.7														
		1403	1405		397.7	396.7													
-L- STA 1271+50	LT	1404																	
		1404	1405								12								
-L- STA 1271+50	LT	1405		400.5	395.7														
		1405	1407		395.7	395.1													
-L- STA 1273+00	LT	1406																	
		1406	1407								12								
-L- STA 1273+00	LT	1407		400.0	395.1														
		1407	OUT		395.1	393.4													
-L- STA 1275+39	RT	1408		401.5	398.3														
		1408	1409		398.3	396.9													
-L- STA 1275+39	LT	1409		399.9	396.9														
		1409	1410		396.9	396.6													
-L- STA 1274+44	LT	1410		399.8	396.6														
		1410	1407		396.6	395.1													
-L- STA 1277+50	LT	1412		400.4	397.4														
		1412	1413		397.4	397.3													
-L- STA 1277+51	RT	1413		402.0	397.3														
		1413	1414		397.3	396.3													
-Y3- STA 16+71	RT	1416							28										
-Y3- STA 16+10	RT	1417							28										
-Y3- STA 14+99	RT	1418							72										
-Y3- STA 14+61	CL	1419																	
		1419	OUT		392.0	391.5													
-Y3- STA 14+56	CL	1420																	
		1420	OUT		392.0	391.5													
-L- STA 1269+50	LT	1422																	
		1422	1403								12								
-L- STA 1281+00	LT	1501		402.2	398.2														
		1501	1502		399.2	399.1													
-L- STA 1281+00	RT	1502		403.7	399.1														
		1502	1503		399.1	397.4													
-Y4- STA 11+51	LT	1504		406.0	402.8														
		1504	1505		402.8	400.1				92									
-L- STA 1283+80	LT	1505		403.6	399.4														
		1505	1507		399.4	399.2													
-Y4- STA 10+55	RT	1506																	
		1506	1505		400.6	400.1													
-L- STA 1289+67	CL	1508																	
		1508	OUT		402.9	402.5													
-L- STA 1289+73	CL	1509																	
		1509	OUT		402.9	402.3													
-L- STA 1294+97	LT	1601							56										
-L- STA 1302+39	LT	1602							48										
-L- STA 1306+39	LT	1603																	
		1603	OUT		411.1	409.2													
-L- STA 1310+03	LT	1701							32										
-L- STA 1314+22		1708							36										
-L- STA 1315+74	LT	1702																	
		1702	OUT		413.3	411.8													
-L- STA 1314+22	LT	1703							36										
-L- STA 1316+63	LT	1704							40										
-L- STA 1320+02	LT	1705							52										
SHEET TOTALS									556	92	36								

STATION	C.S. PIPE .064 12"	.064 15"	.064 18"	.064 24"	.079 30"	.079 36"	.109 42"	.109 48"	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"	** R.C. PIPE (CLASS V)	*** RC PIPE CULVERTS, CONTRACTOR DESIGN	**** RC PIPE CULVERTS, CONTRACTOR DESIGN
-L- STA 1262+69																											
																		96									
-L- STA 1266+94																											
																		100									
-L- STA 1267+29																											
-L- STA 1267+66																											
-L- STA 1268+00																											
																		152									
-L- STA 1269+50																											
																				200							
-L- STA 1271+50																											
-L- STA 1271+50																											
																						152					
-L- STA 1273+00																											
-L- STA 1273+00																											
																						120					
-L- STA 1275+39																											
																		52									
-L- STA 1275+39																											
																		96									
-L- STA 1274+44																											
																		144									
-L- STA 1277+50																											
																		48									
-L- STA 1277+51																											
										92																	
-Y3- STA 16+71																											
-Y3- STA 16+10																											
-Y3- STA 14+99																											
-Y3- STA 14+61																											
																				96							
-Y3- STA 14+56																											
																				96							
-L- STA 1269+50																											
-L- STA 1281+00																											
																		48									
-L- STA 1281+00																											
										92																	
-Y4- STA 11+51																											
-L- STA 1283+80																											
												124															
-Y4- STA 10+55																											
											172																
-L- STA 1289+67																											
																				144							
-L- STA 1289+73																											
																				144							
-L- STA 1294+97																											
-L- STA 1302+39																											
-L- STA 1306+39																											
											128																
-L- STA 1310+03																											
-L- STA 1314+22																											
-L- STA 1315+74																											
											136																
-L- STA 1314+22																											
-L- STA 1316+63																											
-L- STA 1320+02																											
SHEET TOTALS										184	436	124						736		680		272					

STATION	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 *TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL. 'B') PER EACH (0' THRU 5.0')	LIN. FT. A 5.0' THRU 10.0'	LIN. FT. B 10.0' AND ABOVE	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 (ST) STD. 838.10 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 1262+69			1						1																		
-L- STA 1266+94			1			1			1																		
-L- STA 1267+29																										30	
-L- STA 1267+66																											
-L- STA 1268+00			1			1			1																		
-L- STA 1269+50			1			1			1																		
																										70	DRIVE PIPE REMOVAL ON RIGHT OF -L-
-L- STA 1271+50																						31					
-L- STA 1271+50			1			1			1																		
-L- STA 1273+00																						31					
-L- STA 1273+00			1			1			1																		
-L- STA 1275+39			1							1		1	1														
-L- STA 1275+39			1			1		1																			
-L- STA 1274+44			1			1	1																				
-L- STA 1277+50			1			1		1																			
-L- STA 1277+51			1							1		1	1														
																										185	REMOVE EXISTING DI'S AND JUNCTION BOX
-Y3- STA 16+71																											
-Y3- STA 16+10																											
-Y3- STA 14+99																										77	
-Y3- STA 14+61																											
																										66	REMOVE EXISTING DI
-Y3- STA 14+56																											
-L- STA 1269+50																						31					
-L- STA 1281+00			1			1		1																			
-L- STA 1281+00			1							1		1	1														
																										22	
-Y4- STA 11+51			1			1		1																			
-L- STA 1283+80			1			1		1																			
-Y4- STA 10+55																											
-L- STA 1289+67																											
																										68	REMOVE EXISTING HEADWALL
-L- STA 1289+73																											
-L- STA 1294+97																										69	
-L- STA 1302+39																											
-L- STA 1306+39																											
-L- STA 1310+03																										28	
-L- STA 1314+22																											
-L- STA 1315+74																											
-L- STA 1314+22																											
-L- STA 1316+63																											
-L- STA 1320+02																											
SHEET TOTALS			15			12	1	5	6	3		3	3									93				615	

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