COMPUTED BY: RWP DATE: 2/18/2014

CHECKED BY: RSW DATE: 6/24/2014

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".

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
R-2603	3D-11

STATEWIDE

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & 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	DRAINAGE PIPE (RCP, CSP, CAAP, HDPE, or PVC) 12"	15"	18"	24"	30"	36"	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	C.S. PIPE 15" .064	18" .064	24" .064	36" .079	42" .109	48" .109	R.C. PIPE CLASS III 15"	18"	24"	30"	36"	42"	48"	R.C. PIPE CLASS IV 15"	18"	24"	30"	36"	42"	48"
-L- 190+38 (IN)	RT	1712	1713		1123.8	1105.2			48					X																								
-L- 190+50	RT	1713		1107.9	1104.9																																	
		1713	1714		1104.9	1102.8																				64												
-L- 191+15	RT	1714		1105.8	1102.8																																	
		1714	1715		1102.8	1100.8					104																											
-L- 192+17	RT	1715		1105.4	1100.8																																	
		1715	1716		1100.8	1096.6					92																											
-L- 193+10	RT	1716		1099.6	1096.6																																	
		1716	1717		1096.6	1089.8					140																											
-L- 194+50	RT	1717		1094.6	1089.8																																	
		1717	1719		1089.8	1085.1																				112												
-L- 194+79 (IN)	LT	1718	1719		1086.4	1085.1						40																										
-L- 195+18	LT	1719		1092.4	1085.1																																	
-L- 187+70	LT	1721																																				
-Y1- 15+15	RT	1801		1183.5	1180.6																																	
-Y1- 17+53	RT	1802		1174.2	1166.2																																	
		1802	1803		1166.2	1165.7																		44														
-Y1- 18+00	RT	1803		1170.7	1165.7																																	
-Y1- 18+68 (OUT)	LT	1803	1804		1165.7	1165.0																		92														
-Y18- 19+75	LT	2001																																				
-Y18- 25+69	CL	2002																									120											
-Y18- 25+69	RT																																					
-Y18- 23+73	LT	2003																																				
-Y18- 22+60	LT	2004																																				
-Y18- 21+05	CL	2005																								100												
-DRIVE1- 11+26	CL	2101																						76														
-Y18- 35+44	RT	2102																																				
-Y18- 37+50	RT	2103																																				
-Y18- 39+50	RT	2104																																				
-Y18- 39+87	LT	2105																																				
-Y18- 41+07	RT	2106																																				
-Y19- 13+09	CL	2107																							64													
-Y19- 13+09	CL																																					
TEMPORARY DRAINAGE																																						
-Y9DET- 10+86	CL	T01								36																												
-Y16DET- 16+61 (IN)	RT	T02	1407						24																													
-Y16DET- 16+70 (IN)	LT	T03	1407						16																													
-LDETOUR -13+86	CL	T04			1076.6	1051.0													112																			
-LDETOUR- 14+74	RT	T05			1048.7	1045.8																76																
-LDETOUR- 15+04	CL	T06			1068.3	1045.8													120																			
-Y7DET- 8+12	CL	T07																																				
SHEET TOTALS									88	36	336	40							232			76		212	64	276	120											
PROJECT TOTALS FROM PIPES 54" & OVER SHEET 3D-12																																						
PROJECT TOTALS								116	4,220	1,084	816	564	64					300	352		172		76	8,380	2,720	3,072	1,560	96		596	32				352		

STATION / SIZE / THICKNESS OR GAUGE	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	24" SIDE DRAIN PIPE	ENDWALLS STD. 838.01 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) R.C.P.	ENDWALLS CU. YARDS C.S.P.	QUANTITIES FOR MASONRY DRAINAGE STRUCTURES "TOTAL L.F. FOR PAY QUANTITY SHALL BE: COL. 'A' + (1.3 X COL. 'B') PER EACH (@ 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 STANDARD 840.03 TYPE OF GRATE E	F	G	CONCRETE TRANSITIONAL SECTION DROP INLET	CATCH BASIN	O.T.C.B. STD. 840.04 OR 840.05	D.I. STD. 840.14 OR 840.15	D.I. FRAME & 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	J.B. STD. 840.31 OR 840.32	T.B.J.B. STD. 840.34	T.B.D.I. STD. 840.35 (FOR CAST IRON FRAME & GRATES)	DRIVEWAY DROP INLET, STD. 840.30	G.D.I. (N.S.) FRAME WITH SAG GRATE STD. 840.24	G.D.I. (N.S.) FRAME WITH TWO SAG GRATES STD. 840.24	G.D.I. (N.S.) FRAME WITH SAG GRATE STD. 840.29	G.D.I. (N.S.) FRAME WITH TWO FLAT GRATES STD. 840.29	FRAME WITH GRATES, DRIVEWAY DROP INLET, STD. 840.30	MANHOLE FRAME AND COVER STD. 840.54	TEMPORARY 1" STEEL COVER (SEE DETAIL ON SHEET 2C-10)	PREFORMED SCOUR HOLE	BERM DRAINAGE OUTLET (SY) STD. 850.10 OR 850.11	CONVERT EXIST. D.I. TO J.B. w/ MH (SEE DETAIL ON SHEET 2C-4)	ADJUST EXIST. C.B.	ADJUST EXIST. D.I.	FLOWABLE FILL (CY)	CORR. STEEL PIPE ELBOWS - NO. & SIZE (INCHES)	DRAINAGE PIPE ELBOWS - NO. & SIZE (INCHES)	CONC. & BRICK PIPE PLUG (C.Y.) STD. 840.71	CONC. COLLARS CL. "B" (C.Y.) STD. 840.72	PIPE REMOVAL LIN. FT.	REMARKS
-L- 190+38 (IN)																																	11					
-L- 190+50						1									1																							
																																						51
-L- 191+15						1									1																							
																																						100
-L- 192+17						1																				1												16
-L- 193+10						1									1																							
-L- 194+50						1									1																							
																																						77
-L- 194+79 (IN)																																						
-L- 195+18						1	2.3								1																							
-L- 187+70	32																																					
-Y1- 15+15										1																									1			
-Y1- 17+53						1	3.0																			1												
																																						42
-Y1- 18+00						1			1		1																											
-Y1- 18+68 (OUT)																																						89
-Y18- 19+75		40																																				31
-Y18- 25+69																																						
-Y18- 25+69																																						
-Y18- 23+73		48																																				32
-Y18- 22+60		48																																				31
-Y18- 21+05																																						51
-DRIVE1- 11+26																																						74
-Y18- 35+44	40																																					
-Y18- 37+50	40																																					24
-Y18- 39+50	48																																					
-Y18- 39+87	32																																					20
-Y18- 41+07	28																																					30
-Y19- 13+09																																						
-Y19- 13+09																																						
TEMPORARY DRAINAGE																																						
-Y9DET- 10+86																																						
-Y16DET- 16+61 (IN)																																						
-Y16DET- 16+70 (IN)																																						
-LDETOUR -13+86																															1 @ 18							112
-LDETOUR- 14+74																																						76
-LDETOUR- 15+04																																						120
-Y7DET- 8+12		72																																				
SHEET TOTALS	220	208				8	5.3		1		2						5		1	1					6			2			11			1			1 @ 18				976
PROJECT TOTALS FROM PIPES 54" & OVER SHEET 3D-12																												2										
PROJECT TOTALS	640	544		20.0	2.0 / 22	260	105.8	19.8 / 132	123	10	68	46	9	23	1	11	11	25	86	11	1	1	1	7	72	2	42	30	15	1	6	353	1		1	1	580	1 @ 18	2 @ 15	0.130	8,516

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.)	GRATED 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

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