COMPUTED BY: RWP DATE: 2/18/2014

CHECKED BY: RSW DATE: 6/8/2014

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

STATEWIDE

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

PROJECT NO.	SHEET NO.
R-2603	3D-8

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"
-Y12- 10+90		RT	1101		1044.4	1040.0																																	
			1101	1104		1040.0	1034.8				64																												
-L- 105+40 (IN)		RT	1102	1103		1041.4	1035.4				20				X																								
-L- 105+42		RT	1103		1039.4	1035.4																																	
			1103	1104		1035.4	1034.8				12																												
-L- 105+53		RT	1104		1039.1	1034.8																																	
			1104	1105		1034.8	1034.0																			104													
-L- 105+26		LT	1105		1042.2	1034.0																																	
-L- 105+50 (OUT)		LT	1105	1106		1034.0	1033.0					32																											
-Y12- 13+54		RT	1107						52																														
-L- 108+05		CL	1108																									184											
-L- 111+48 (IN)		LT	1110	1111		1009.3	1005.8						20		X																								
-L- 111+48		LT	1111		1009.8	1005.8																																	
-L- 111+45 (OUT)		RT	1111	1109		1005.8	1004.7																																
-L- 111+63		RT	1112											36														120											
-DRIVE3- 10+24		CL	1113																																				
-Y12- 12+50		RT	1114						52																														
-Y12- 12+52		RT	1115																																				
-Y12- 13+55		RT	1116																																				
-L- 116+26		LT	1117		999.5	994.5																																	
-L- 116+35 (OUT)		LT	1117	1118		994.5	992.4			32																													
-L- 113+51		RT	1119																									52											
-L- 116+25		RT	1121																																				
-L- 116+25 (OUT)		RT	1121	1120						36					X																								
NOT USED			1122																																				
-L- 118+44		RT	1123		998.7	994.7																																	
-L- 118+44 (OUT)		RT	1123	1124		994.7	993.5			16																													
-L- 118+43		LT	1125																																				
-L- 123+75		LT	1201		996.8	994.0																																	
			1201	1202		994.0	992.6																		276														
-L- 121+00		LT	1202		997.6	992.6																																	
-L-121+00 (OUT)		LT	1202	1203		992.6	991.8			24																													
-L- 123+75		RT	1204		996.8	994.0																																	
			1204	1205		994.0	991.6																		276														
-L- 121+00		RT	1205		997.6	991.6																																	
-L- 121+00 (OUT)		RT	1205	1206		991.6	990.3			24																													
NOT USED			1207																																				
-L- 127+45		CL	1208			994.3	993.1																																
NOT USED			1209	1211																																			
-L- 131+50		LT	1212		1005.5	1002.8																																	
			1212	1213		1002.8	1000.1			128																													
-L- 130+20		LT	1213		1002.9	1000.1																																	
			1213	1215		1000.1	998.1																		88														
-L- 129+60		CL	1215		1005.1	998.1																																	
-L- 129+59 (OUT)		RT	1215	1216		998.1	997.5																		60														
NOT USED			1214																																				
-L- 132+75		CL	1217		1011.7	1003.7																																	
-L- 132+56 (OUT)		RT	1217	1218		1003.7	1002.9																			60													
-L- 138+50		CL	1301		1022.4	1019.4																																	
			1301	1302		1019.4	1015.8																		64														
-L- 138+50		LT	1302		1018.8	1015.8																																	
			1302	1303		1015.8	1012.2			228																													
-L- 136+20		LT	1303		1015.4	1012.2																																	
			1303	1304		1012.2	1008.6				168																												
-L- 134+50		LT	1304		1011.6	1008.6																																	
			1304	1305		1008.6	1004.4				148																												
-L- 133+00		LT	1305		1008.6	1004.4																																	
			1305	1217		1004.4	1003.7																			68													
SHEET TOTALS									104	488	412	32	20	36											764	128	104	304	52										

STATION	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.	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 (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 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
-Y12- 10+90						1													1															1	1																	
-L- 105+40 (IN)																																							11													41	REM 15"
-L- 105+42						1																					1										1															
-L- 105+53						1			1		1																																									
-L- 105+26						1	3.2		1			1																																								
-L- 105+50 (OUT)																																																				
-Y12- 13+54																																																				
-L- 108+05																																																			64	-L- 107+57 LT (IN); -L- 108+55 RT (OUT); REM 30"
-L- 111+48 (IN)																																							31														
-L- 111+48						1													1																1																	
-L- 111+45 (OUT)																																																			122	REM 2-24"
-L- 111+63																																																			10	REM 18"
-DRIVE3- 10+24	32																																																			
-Y12- 12+50																																																				
-Y12- 12+52	52																																																		40	REM 12"
-Y12- 13+55	60																																																			
-L- 116+26						1													1																		1															
-L- 116+35 (OUT)																																						1													81	REM 15"
-L- 113+51																																																				
-L- 116+25						1													1																		1															
-L- 116+25 (OUT)																																																				
NOT USED																																																				
-L- 118+44						1													1																		1															
-L- 118+44 (OUT)																																						1														
-L- 118+43																																					1						1							58	REM 15"
-L- 123+75						1													1																		1															
-L- 121+00						1													1																		1															
-L-121+00 (OUT)																																						1														
-L- 123+75						1													1																		1															
-L- 121+00						1	1.0												1																		1															
-L- 121+00 (OUT)																																						1														
NOT USED																																																				
-L- 127+45																																																				2 @ 36" RCP-IV; -L- 128+01 LT (IN); -L- 126+99 RT (OUT)
NOT USED																																																				
-L- 131+50						1													1																1																	
-L- 130+20						1													1																1																	
																																																			47	REM 18"
-L- 129+60						1	2.0		1		1			1																																						
-L- 129+59 (OUT)																																																				
NOT USED																																																				
-L- 132+75						1	3.0		1		1			1																																					53	REM 18"
-L- 132+56 (OUT)																																																				
-L- 138+50						1			1		1			1																																						
-L- 138+50						1													1																1																	
-L- 136+20						1													1																1																	
-L- 134+50						1													1																1																	
-L- 133+00						1																			1									1	1																
SHEET TOTALS	144					21	9.2		5		4	1		3				2	13		1						2	8		8		1	4		42				1									571	

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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