COMPUTED BY:	RAS	DATE:	1/31/2012
CHECKED BY:	TLS	DATE:	11/15/2013

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
R - 3620	3-C

RD266215

**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)

STATION	LOCATION (LT, RT, OR CL)'	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL
-L- 169+91	CL	1502	1501		4.7	3.5	
-L- 172+97	CL	1503	1504		5.6	5.5	
-Y1- 17+54	RT.	1505		8.8			
-Y1- 17+54	RT.	1505	1506		5	4.7	
-Y1- 24+52	LT.	1507					
-L- 184+21	LT.	1602	1601		4.3	4.3	
-L- 184+54	RT.	1604	1603		4.3	4.3	
-L- 186+00	LT.	1605					
-L- 186+34	RT.	1606	1607		5	5.2	
-L- 186+34	RT.	1607		7			
-L- 187+20	RT.	1607	1608		5.1	5.2	
-L- 187+20	RT.	1608	1609		5.2	5.4	
-L- 187+20	RT.	1608		7.1			
-Y2- 16+22	CL	1702	1701		4	3.5	
-Y1- 14+06	RT.	1703					
-Y1- 15+52	RT.	1704					
-Y2- 10+25	RT.	1705					
-Y2- 10+38	LT.	1706					
-Y2- 9+94	CL	1707	1708		2.4	2	
-Y1- 14+50	RT	1709					
-Y2- 12+39	LT	1710					
-Y1- 25+39	LT	1801					
-Y1- 26+32	LT	1802					
-Y1- 27+26	LT	1803					
-Y1- 27+45	RT	1804					
SHEET TOTALS							
PROJECT TOTALS							

STATION (SIZE / THICKNESS OR GAUGE)	DRAINAGE 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- 169+91																				
-L- 172+97																				
-Y1- 17+54																				
-Y1- 17+54																				
-Y1- 24+52																				
-L- 184+21																				
-L- 184+54																				
-L- 186+00																				
-L- 186+34																				
-L- 186+34																				
-L- 187+20																				
-L- 187+20																				
-L- 187+20																				
-Y2- 16+22																				
-Y1- 14+06																				
-Y1- 15+52																				
-Y2- 10+25																				
-Y2- 10+38																				
-Y2- 9+94																				
-Y1- 14+50																				
-Y2- 12+39																				
-Y1- 25+39																				
-Y1- 26+32																				
-Y1- 27+26																				
-Y1- 27+45																				
SHEET TOTALS																				
PROJECT TOTALS																				

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"
-L- 169+91																140
-L- 172+97												144				
-Y1- 17+54																
-Y1- 17+54										44						
-Y1- 24+52																
-L- 184+21																20
-L- 184+54																28
-L- 186+00																
-L- 186+34			72													
-L- 186+34																
-L- 187+20			100													
-L- 187+20			124													
-L- 187+20																
-Y2- 16+22													88			
-Y1- 14+06																
-Y1- 15+52																
-Y2- 10+25																
-Y2- 10+38																
-Y2- 9+94																48
-Y1- 14+50																
-Y2- 12+39																
-Y1- 25+39																
-Y1- 26+32																
-Y1- 27+26																
-Y1- 27+45																
SHEET TOTALS			296							44		144	88			236
PROJECT TOTALS			296							216		472	376	1224	292	596

STATION	** " R.C. PIPE (CLASS V)	***" RC PIPE CULVERTS, CONTRACTOR DESIGN	***" RC PIPE CULVERTS, CONTRACTOR DESIGN	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	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
-L- 169+91						6.0					
-L- 172+97											
-Y1- 17+54								1			
-Y1- 17+54											
-Y1- 24+52				64							
-L- 184+21											
-L- 184+54						6.0					
-L- 186+00				56							
-L- 186+34											
-L- 186+34								1			
-L- 187+20											
-L- 187+20											
-L- 187+20								1			
-Y2- 16+22											
-Y1- 14+06					24						
-Y1- 15+52					24						
-Y2- 10+25					44						
-Y2- 10+38				32							
-Y2- 9+94											
-Y1- 14+50					28						
-Y2- 12+39				36							
-Y1- 25+39				80							
-Y1- 26+32				80							
-Y1- 27+26				84							
-Y1- 27+45					44						
SHEET TOTALS				432	164	12		3			
PROJECT TOTALS				484	164	46.9		7			

STATION	FRAME, GRATES, AND HOOD STANDARD 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 WITH TWO 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. 840.22	G.D.I. (N.S.) FRAME WITH GRATE STD. 840.24	G.D.I. (N.S.FLAT) FRAME WITH TWO GRATES STD. 840.29	J.B. STD. 840.31 OR 840.32	T.B.D.I. STD. 840.35			
-L- 169+91																			
-L- 172+97																			
-Y1- 17+54				1		1	1												
-Y1- 17+54																			
-Y1- 24+52																			
-L- 184+21																			
-L- 184+54																			
-L- 186+00																			
-L- 186+34																			
-L- 186+34										1				1					
-L- 187+20																			
-L- 187+20																			
-L- 187+20										1				1					
-Y2- 16+22																			
-Y1- 14+06																			
-Y1- 15+52																			
-Y2- 10+25																			
-Y2- 10+38																			
-Y2- 9+94																			
-Y1- 14+50																			
-Y2- 12+39																			
-Y1- 25+39																			
-Y1- 26+32																			
-Y1- 27+26																			
-Y1- 27+45																			
SHEET TOTALS				1		1	1			2				2					
PROJECT TOTALS				1		1	1			2				6		4			

STATION	DRAINAGE 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- 169+91					
-L- 172+97					
-Y1- 17+54					SEE STD. 852.06
-Y1- 17+54				60	
-Y1- 24+52					
-L- 184+21			1.0126		
-L- 184+54			1.0126	15	
-L- 186+00				32	
-L- 186+34				28	
-L- 186+34					
-L- 187+20				23	
-L- 187+20					
-L- 187+20					
-Y2- 16+22					
-Y1- 14+06				21	
-Y1- 15+52				21	
-Y2- 10+25				40	
-Y2- 10+38				25	
-Y2- 9+94					
-Y1- 14+50					
-Y2- 12+39					
-Y1- 25+39					
-Y1- 26+32					
-Y1- 27+26					
-Y1- 27+45					
SHEET TOTALS			2.0252	265	
PROJECT TOTALS			2.0252	441	

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