RD248621

COMPUTED BY:	D. Petry	DATE:	1/23/2014
CHECKED BY:		DATE:	

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
W-5107	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".

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	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	C.S. PIPE 12" .064	15" .064	18" .064	24" .064	30" .079	36" .079	42" .109	48" .109
-Y1- 31+40	LT.	654	655		178.19	156.77															80						
-Y1- 33+48	RT.	656		172.37																							
-Y1- 33+48	CL	656	657		169.20	168.81																					
-Y1- 33+48	LT.	657		173.07																							
-Y1- 33+48	LT.	657	659		168.81	161.67															44						
-Y1LPA- 12+17	LT.	660		159.44																							
-Y1LPA- 11+37	LT.	661		159.08																							
-Y1LPA- 11+37	LT.	661	660		156.08	155.86																					
-Y1- 34+95	LT.	663		168.05																							
-Y1- 34+95	LT.	663	664		164.88	163.81																					
-Y1- 34+95	RT.	664		166.81																							
-Y1- 34+95	RT.	664	647		163.81	157.82			44																		
-Y1LPA- 15+25	RT.	665		163.92																							
-Y1LPA- 15+25	RT.	665	666		160.75	160.60																					
-Y1RPA- 19+00	LT.	666		163.77																							
-Y1RPA- 19+00	LT.	666	667		160.60	158.39																					
-Y1LPA- 15+40	RT.	668		164.04																							
-Y1LPA- 15+40	RT.	668	665		160.87	160.75																					
-Y1- 36+50	CL	669	670		160.77	158.53																					
-Y1LPA- 14+09	RT.	671		163.77																							
-Y1LPA- 14+09	CL	671	672		160.60	159.08																					
-Y1LPA- 14+09	LT.	672		162.08																							
-Y1LPA- 14+09	LT.	672	674		159.08	156.39																					
-Y1LPA- 13+04	LT.	673	674		156.00	155.64					28																
-Y1LPA- 13+04	LT.	674		160.39																							
-Y1LPA- 13+04	CL	674	675		155.64	155.12																					
-Y1LPA- 13+04	LT.	674	660		155.86	155.64																					
-Y1RPA- 15+74	CL	676	677		155.52	154.86																					
-L- 41+50	LT.	678	679		154.64	154.21																					
-L- 93+00	CL																										
-L- 41+50	RT.	679		159.01																							
-L- 41+50	RT.	679	680		154.21	153.48																					
-Y1- 39+80	LT.	681	682																								
-Y1- 39+65	LT.	682																									
-Y1- 39+40	RT.	684																									
-Y1- 39+40	RT.	684	685																								
-DW1- 12+24	CL	686							44																		
-Y1- 39+60	RT.	687							28																		
-L- 68+90	CL																										
-L- 78+20	CL																										
-L- 46+25	LT.	688		161.58																							
-L- 46+25	LT.	688	689		159.66	159.08																					
-L- 96+60	CL	901		160.96																							
-L- 87+60	CL																										
SHEET TOTALS									116		28										124						

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"	15" WELDED STEEL PIPE, 0.500" THK. (TRENCHLESS INSTALLATION)	30" WELDED STEEL PIPE, 0.500" THK. (TRENCHLESS INSTALLATION)	36" WELDED STEEL PIPE, 0.500" THK. (TRENCHLESS INSTALLATION)			ENDWALLS STD. 838.01 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YARDS R.C.P.	C.S.P.
-Y1- 31+40																							
-Y1- 33+48																							
-Y1- 33+48										80													
-Y1- 33+48																							
-Y1- 33+48																							
-Y1LPA- 12+17																							
-Y1LPA- 11+37																							
-Y1LPA- 11+37										72													
-Y1- 34+95																							
-Y1- 34+95										40													
-Y1- 34+95																							
-Y1- 34+95																							
-Y1LPA- 15+25																							
-Y1LPA- 15+25										20													
-Y1RPA- 19+00																							
-Y1RPA- 19+00										72													
-Y1LPA- 15+40																							
-Y1LPA- 15+40										12													
-Y1- 36+50											120												
-Y1LPA- 14+09																							
-Y1LPA- 14+09										24													
-Y1LPA- 14+09																							
-Y1LPA- 14+09										92													
-Y1LPA- 13+04																							
-Y1LPA- 13+04																							
-Y1LPA- 13+04												92											
-Y1LPA- 13+04										76													
-Y1RPA- 15+74													124										
-L- 41+50																			88				2.8
-L- 93+00																							
-L- 41+50																							
-L- 41+50																			92				
-Y1- 39+80				28																			
-Y1- 39+65																							
-Y1- 39+40																							
-Y1- 39+40				16																			
-DW1- 12+24																							
-Y1- 39+60																							
-L- 68+90																							
-L- 78+20																							
-L- 46+25																							
-L- 46+25																	84						
-L- 96+60																							
-L- 87+60																							
SHEET TOTALS				44						488	120	92	124				84		180				2.8

STATION	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	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.) FRAME WITH TWO GRATES STD. 840.24	J.B. STD. 840.31 OR 840.32	FLOWABLE FILL, CY.	T.B.D.I. STD. 840.36	STEEL GRATES AND FRAME STD. 840.37	REPAIR EX. DI SEE SPECIAL PROVISIONS	CS 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
-Y1- 31+40																								2 @ 15"			78	REMOVE 18" PIPE
-Y1- 33+48	1																				1	1						
-Y1- 33+48																												
-Y1- 33+48	1																				1	1						
-Y1- 33+48																												
-Y1LPA- 12+17	1			1	1																							
-Y1LPA- 11+37	1			1			1																					
-Y1LPA- 11+37																												
-Y1- 34+95	1							1													1	1						
-Y1- 34+95																												
-Y1- 34+95	1			1	1																							
-Y1- 34+95																												
-Y1LPA- 15+25	1																				1	1						
-Y1LPA- 15+25																												
-Y1RPA- 19+00	1							1													1	1						
-Y1RPA- 19+00																												
-Y1LPA- 15+40	1							1													1	1						
-Y1LPA- 15+40																												
-Y1- 36+50																												
-Y1LPA- 14+09	1							1													1	1						
-Y1LPA- 14+09																												
-Y1LPA- 14+09	1			1		1																						
-Y1LPA- 14+09																												
-Y1LPA- 13+04																												
-Y1LPA- 13+04	1			1	1																							
-Y1LPA- 13+04																												
-Y1LPA- 13+04																												
-Y1RPA- 15+74																												
-L- 41+50																				10								REMOVE CB
-L- 93+00																							1					
-L- 41+50	1												1			1												
-L- 41+50																				10							23	REMOVE 15" PIPE
-Y1- 39+80																												
-Y1- 39+65																										0.553		
-Y1- 39+40																										0.553		
-Y1- 39+40																												
-DW1- 12+24																												
-Y1- 39+60																											25	REMOVE 15" PIPE
-L- 68+90																							1					
-L- 78+20																							1					
-L- 46+25	1													1		1												
-L- 46+25																				3							60	REMOVE CB & 15" PIPE
-L- 96+60	1												1			1												
-L- 87+60																							1					
SHEET TOTALS	15			5	3	1	1	4					2	1		3				23	7	7	4	2 @ 15"		1.106	186	

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