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-2

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- 30+04	LT.	628		160.63			
-L- 30+04	CL	628	629		157.82	156.97	
-L- 31+75	CL	629		160.57			
-L- 28+60	CL	630		160.57			
-L- 28+60	LT.	630	628		157.82	156.97	
-L- 30+39	RT.	631		162.98			
-L- 30+39	RT.	631	632		159.81	156.27	
-L- 30+04	RT.	632		163.22			
-L- 30+04	RT.	632	628		156.97	156.27	
-L- 30+04	RT.	632	633		156.27	149.96	
-Y1RPD- 20+49	LT.	634		180.81			
-Y1RPD- 20+49	LT.	634	635		177.64	177.08	
-Y1- 25+00	CL	635		180.25			
-Y1- 25+00	LT.	635	638		177.08	175.43	
-Y1- 27+10	RT.	636		185.87			
-Y1- 27+10	CL	636	637		182.70	182.10	
-Y1- 27+04	LT.	637		185.27			
-Y1- 27+04	LT.	637	613		182.10	174.95	
-Y1- 25+00	LT.	638		178.60			
-Y1- 25+00	LT.	638	613		175.43	174.95	
-L- 30+00	LT.	640		161.16			
-L- 30+00	LT.	640	641		157.99	157.62	
-L- 31+23	LT.	641		161.10			
-L- 31+23	LT.	641	642		157.62	151.94	
-SR1- 16+52	CL	643	644		150.35	148.48	
-Y1- 27+50	RT.	645		171.45			
-Y1- 27+50	RT.	645	646		168.70	168.40	
-Y1RPD- 18+00	LT.	646		175.33			
-Y1RPD- 18+00	LT.	646	651		168.40	153.38	
-L- 34+00	RT.	648		157.98			
-L- 34+00	RT.	648	651		153.78	153.38	
-Y1- 33+28	RT.	649		173.34			
-Y1- 33+28	RT.	649	656		170.17	169.20	
-Y1- 33+28	LT.	650		173.91			
-Y1- 33+28	LT.	650	657		170.74	168.81	
-Y1RPD- 16+44	LT.	651		167.38			
-Y1RPD- 16+44	LT.	651	652		153.38	151.55	
-Y1- 31+40	RT.	653		181.67			
-Y1- 31+40	CL	653	654		178.50	178.19	
-Y1- 31+40	LT.	654		181.67			
SHEET TOTALS							

STATION (SIZE / THICKNESS OR GAUGE)	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
-L- 30+04																				
-L- 30+04																				
-L- 31+75																				
-L- 28+60																				
-L- 28+60																				
-L- 30+39																				
-L- 30+39																				
-L- 30+04																				
-L- 30+04																				
-L- 30+04														32						
-Y1RPD- 20+49																				
-Y1RPD- 20+49																				
-Y1- 25+00																				
-Y1- 25+00																				
-Y1- 27+10																				
-Y1- 27+10																				
-Y1- 27+04																				
-Y1- 27+04																				
-Y1- 25+00																				
-Y1- 25+00																				
-L- 30+00																				
-L- 30+00																				
-L- 31+23																				
-L- 31+23														36						
-SR1- 16+52																				
-Y1- 27+50																				
-Y1- 27+50																				
-Y1RPD- 18+00																				
-Y1RPD- 18+00																				
-L- 34+00																				
-L- 34+00																				
-Y1- 33+28																				
-Y1- 33+28																				
-Y1- 33+28																				
-Y1- 33+28																				
-Y1RPD- 16+44																				
-Y1RPD- 16+44		56																		
-Y1- 31+40																				
-Y1- 31+40																				
-Y1- 31+40																				
SHEET TOTALS		56												68						

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- 30+04																
-L- 30+04		168														
-L- 31+75																
-L- 28+60																
-L- 28+60		140														
-L- 30+39																
-L- 30+39										32						
-L- 30+04																
-L- 30+04																
-L- 30+04																
-Y1RPD- 20+49																
-Y1RPD- 20+49										68						
-Y1- 25+00																
-Y1- 25+00										36						
-Y1- 27+10																
-Y1- 27+10										68						
-Y1- 27+04																
-Y1- 27+04										100						
-Y1- 25+00																
-Y1- 25+00										96						
-L- 30+00																
-L- 30+00										120						
-L- 31+23																
-L- 31+23																
-SR1- 16+52				68												
-Y1- 27+50																
-Y1- 27+50		60														
-Y1RPD- 18+00																
-Y1RPD- 18+00		148														
-L- 34+00																
-L- 34+00		80														
-Y1- 33+28																
-Y1- 33+28										16						
-Y1- 33+28																
-Y1- 33+28										16						
-Y1RPD- 16+44																
-Y1RPD- 16+44																
-Y1- 31+40																
-Y1- 31+40										68						
-Y1- 31+40																
SHEET TOTALS		596		68						620						

STATION		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.	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
-L- 30+04									1								
-L- 30+04																	
-L- 31+75									1								
-L- 28+60									1								
-L- 28+60																	
-L- 30+39									1								
-L- 30+39																	
-L- 30+04									1	1.95							
-L- 30+04		72															
-L- 30+04																	
-Y1RPD- 20+49									1								
-Y1RPD- 20+49																	
-Y1- 25+00									1							1	
-Y1- 25+00																	
-Y1- 27+10									1								
-Y1- 27+10																	
-Y1- 27+04									1								
-Y1- 27+04																	
-Y1- 25+00									1								
-Y1- 25+00																	
-L- 30+00									1								
-L- 30+00																	
-L- 31+23									1								
-L- 31+23																	
-SR1- 16+52																	
-Y1- 27+50									1								
-Y1- 27+50																	
-Y1RPD- 18+00										1.93							
-Y1RPD- 18+00									1								
-L- 34+00									1								
-L- 34+00																	
-Y1- 33+28									1								
-Y1- 33+28																	
-Y1- 33+28									1								
-Y1- 33+28																	
-Y1RPD- 16+44									1	5	4						
-Y1RPD- 16+44																	
-Y1- 31+40									1								
-Y1- 31+40																	
-Y1- 31+40									1								
SHEET TOTALS		72							20	8.88	4					1	

STATION	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
-L- 30+04				1			1												
-L- 30+04																			
-L- 31+75				1			1				5								REMOVE CB
-L- 28+60				1			1				5								REMOVE CB
-L- 28+60																			
-L- 30+39												1	1						
-L- 30+39																			
-L- 30+04												1	1						
-L- 30+04																			
-L- 30+04															2 @ 15"				
-Y1RPD- 20+49												1	1						
-Y1RPD- 20+49																			
-Y1- 25+00												1	1						
-Y1- 25+00																			
-Y1- 27+10												1	1						
-Y1- 27+10																			
-Y1- 27+04												1	1						
-Y1- 27+04																			
-Y1- 25+00												1	1						
-Y1- 25+00																			
-L- 30+00												1	1						
-L- 30+00																			
-L- 31+23												1	1						
-L- 31+23															2 @ 15"				
-SR1- 16+52																			
-Y1- 27+50				1			1											146	REMOVE 15" PIPE
-Y1- 27+50																			
-Y1RPD- 18+00												1	1						
-Y1RPD- 18+00																			
-L- 34+00				1			1												
-L- 34+00																			
-Y1- 33+28												1	1						
-Y1- 33+28																			
-Y1- 33+28												1	1						
-Y1- 33+28																			
-Y1RPD- 16+44												1	1						
-Y1RPD- 16+44																			
-Y1- 31+40												1	1						
-Y1- 31+40																			
-Y1- 31+40												1	1						
SHEET TOTALS				5			5				10	15	15		4 @ 15"			146	

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