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

CHECKED BY: DATE:

RD248621

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
W-5107	3D-5

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	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
-Y6- 21+70	RT.	1041		173.34															
-Y6- 21+70	CL	1041	1043		170.17	169.97													
-Y6- 21+70	LT.	1043		173.34															
-Y6- 21+70	LT.	1043	1042																
-L- 115+00	LT.	1045		151.08															
-L- 115+00	LT.	1045	1046		148.33	147.33													
-Y6- 24+89	LT.	1047		172.02															
-Y6- 24+89	LT.	1047	1048		166.18	141.23													
-L- 126+60	CL.																		
-Y6- 24+98	RT.	1049		171.80															
-Y6- 24+98	CL	1049	1047		168.63	166.18													
-Y6LPB- 15+36	LT.	1050		154.06															
-Y6LPB- 15+36	RT.	1050	1064		147.38	145.62													
-Y6- 25+70	RT.	1051		170.20															
-Y6- 25+70	CL	1051	1056		167.03	166.57													
-Y6LPB- 16+36	LT.	1052		154.06															
-Y6LPB- 16+36	LT.	1052	1025		150.89	148.95													
-Y6- 28+25	LT.	1053		161.13															
-Y6- 28+25	LT.	1053	1054		157.96	156.64													
-Y6- 28+22	LT.	1054		159.81															
-Y6- 28+22	LT.	1054	1055		156.64	144.62													
-Y6- 25+70	LT.	1056		169.74															
-Y6- 25+70	LT.	1056	1047		166.57	166.18													
-Y6- 22+25	CL	1058	1059		147.75	143.60													
-DW5- 10+58	CL	1060							52										
-DW7- 10+75	RT.	1061							40										
-DW7- 11+00	CL	1062	1063		150.36	150.20													
-SR4- 10+50	CL	1064A	1065A		151.78	151.48													
-Y6LPB- 15+36	RT.	1064		152.14															
-Y6LPB- 15+36	RT.	1064	1026		145.62	142.57			36										
-Y6LPB- 16+36	RT.	1065		152.14															
-Y6LPB- 16+36	RT.	1065	1066		148.97	148.75													
-Y6LPB- 15+86	RT.	1066		152.03															
-Y6LPB- 15+86	RT.	1066	1064		148.75	145.62													
-Y6- 13+40	LT.	1069							36										
-SR2- 27+17	RT.	1067									28								
-SR2- 11+20	RT.	1068							40										
-Y6- 33+17	LT.	1101							40										
-L- 134+65	LT.	1201		157.93															
-Y6- 13+05	RT.	1070							32										
-L- 134+65	RT.	1201	1205		149.23	149.11													
-L- 134+35	RT.	1203																	
SHEET TOTALS									276		28								

SIZE / THICKNESS OR GAUGE (C.S. PIPE): .064, .064, .064, .064, .079, .079, .109, .109

STATION	STRUCTURE NO. FROM	C.S. PIPE 12"	15"	18"	24"	30"	36"	42"	48"	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"
-Y6- 21+70	1041																								
-Y6- 21+70	1041																		40						
-Y6- 21+70	1043																								
-Y6- 21+70	1043		76																						
-L- 115+00	1045																								
-L- 115+00	1045																								
-Y6- 24+89	1047																								
-Y6- 24+89	1047		92																						
-L- 126+60																									
-Y6- 24+98	1049																								
-Y6- 24+98	1049																		40						
-Y6LPB- 15+36	1050																								
-Y6LPB- 15+36	1050										24														
-Y6- 25+70	1051																								
-Y6- 25+70	1051																		44						
-Y6LPB- 16+36	1052																								
-Y6LPB- 16+36	1052																		48						
-Y6- 28+25	1053																								
-Y6- 28+25	1053																		24						
-Y6- 28+22	1054																								
-Y6- 28+22	1054		52																						
-Y6- 25+70	1056																								
-Y6- 25+70	1056																		76						
-Y6- 22+25	1058														204										
-DW5- 10+58	1060																								
-DW7- 10+75	1061																								
-DW7- 11+00	1062																			52					
-SR4- 10+50	1064A																			80					
-Y6LPB- 15+36	1064																								
-Y6LPB- 15+36	1064																								
-Y6LPB- 16+36	1065																								
-Y6LPB- 16+36	1065																		44						
-Y6LPB- 15+86	1066																								
-Y6LPB- 15+86	1066																		44						
-Y6- 13+40	1069																								
-SR2- 27+17	1067																								
-SR2- 11+20	1068																								
-Y6- 33+17	1101																								
-L- 134+65	1201																								
-Y6- 13+05	1070																								
-L- 134+65	1201															12									
-L- 134+35	1203																								
SHEET TOTALS			220								24				216				360	132					

STATION	STRUCTURE NO. FROM	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
-Y6- 21+70	1041						1								
-Y6- 21+70	1041														
-Y6- 21+70	1043						1								
-Y6- 21+70	1043														
-L- 115+00	1045						1								
-L- 115+00	1045	68													
-Y6- 24+89	1047						1								
-Y6- 24+89	1047														
-L- 126+60															
-Y6- 24+98	1049						1								
-Y6- 24+98	1049														
-Y6LPB- 15+36	1050						1	1.68						1	
-Y6LPB- 15+36	1050														
-Y6- 25+70	1051						1								
-Y6- 25+70	1051														
-Y6LPB- 16+36	1052						1							1	
-Y6LPB- 16+36	1052														
-Y6- 28+25	1053						1							1	
-Y6- 28+25	1053														
-Y6- 28+22	1054						1								
-Y6- 28+22	1054														
-Y6- 25+70	1056						1								
-Y6- 25+70	1056														
-Y6- 22+25	1058														
-DW5- 10+58	1060														
-DW7- 10+75	1061														
-DW7- 11+00	1062														
-SR4- 10+50	1064A														
-Y6LPB- 15+36	1064						1	1.52							
-Y6LPB- 15+36	1064														
-Y6LPB- 16+36	1065						1								
-Y6LPB- 16+36	1065														
-Y6LPB- 15+86	1066						1								
-Y6LPB- 15+86	1066														
-Y6- 13+40	1069														
-SR2- 27+17	1067														
-SR2- 11+20	1068														
-Y6- 33+17	1101														
-L- 134+65	1201						1								
-Y6- 13+05	1070														
-L- 134+65	1201														
-L- 134+35	1203														
SHEET TOTALS		68					15	3.2						3	

STATION	STRUCTURE NO. FROM	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
-Y6- 21+70	1041												1	1						
-Y6- 21+70	1041																		28	
-Y6- 21+70	1043												1	1						
-Y6- 21+70	1043															2 @ 15'				
-L- 115+00	1045				1			1												
-L- 115+00	1045											5								REMOVE CB
-Y6- 24+89	1047												1	1						
-Y6- 24+89	1047															2 @ 15"			20	
-L- 126+60															1					
-Y6- 24+98	1049												1	1						
-Y6- 24+98	1049																			
-Y6LPB- 15+36	1050												1	1						
-Y6LPB- 15+36	1050																			
-Y6- 25+70	1051												1	1						
-Y6- 25+70	1051																		90	REMOVE DI & 15" PIPE
-Y6LPB- 16+36	1052												1	1						
-Y6LPB- 16+36	1052																			
-Y6- 28+25	1053												1	1						
-Y6- 28+25	1053																			
-Y6- 28+22	1054												1	1						
-Y6- 28+22	1054															2 @ 15"				
-Y6- 25+70	1056												1	1						
-Y6- 25+70	1056																			
-Y6- 22+25	1058																		128	REMOVE 24" PIPE
-DW5- 10+58	1060																		22	REMOVE 15' PIPE
-DW7- 10+75	1061																			
-DW7- 11+00	1062																			
-SR4- 10+50	1064A																			
-Y6LPB- 15+36	1064												1	1						
-Y6LPB- 15+36	1064																			
-Y6LPB- 16+36	1065												1	1						
-Y6LPB- 16+36	1065																			
-Y6LPB- 15+86	1066												1	1						
-Y6LPB- 15+86	1066																			
-Y6- 13+40	1069																			
-SR2- 27+17	1067																			
-SR2- 11+20	1068																			
-Y6- 33+17	1101																			
-L- 134+65	1201				1			1												
-Y6- 13+05	1070																			
-L- 134+65	1201																	0.764	21	
-L- 134+35	1203											4							18	REMOVE DI & 15" PIPE
SHEET TOTALS					2			2				9	13	13	1	6 @ 15'		0.764	327	

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