COMPUTED BY: CJH	DATE: 3/11/2022	PROJECT NO.	SHEET NO.
CHECKED BY: WJW	DATE: 5/4/2022	I-5987A	3D-6

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

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)

LINE & STATION	OFFSET	STRUCTURE NUMBER FROM	STRUCTURE NUMBER TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %	Side Drain Pipe (RCP, CSP, CAAP, HDPE, or PVC) SIZE 15	18	24	30	36	42	48	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE
THICKNESS OR GAUGE																		
Y1RPB 20+25	107 LT	633		129.62														
		633	632		119.60	119.50												
Y1RPB 18+55	60 LT	634		128.44														
		634	633		120.00	119.60												
Y1RPC 16+50	44 RT	635		127.09														
		635	645		124.80	124.30												
Y1RPB 15+18	35 LT	636		126.80														
		636	655		120.60	120.30												
LA 91+00	90 LT	637		128.50														
		637	636		122.00	121.60												
LA 95+50	93 LT	638		127.03														
		638	661		123.70	123.00												
LA 101+00	95 LT	639		128.90														
		639	640		126.20	125.60												
LA 103+00	91 LT	640		130.36														
		640	641		125.60	125.30	.4											
LA 101+00	106 RT	642		128.50														
		642	643		126.70	126.10	.5											
Y1RPD 16+64	57 LT	643		132.50														
		643	644		125.60	124.80												
LA 91+00	99 RT	645		127.10														
		645	637		123.30	122.50												
Y1RPB 14+36	33 LT	646		126.60														
		646	605		123.60	123.50												
LA 110+00	86 LT	647		134.00														
		647	629		129.90	129.00	.4											
LA 95+58	3 LT	648		130.80														
		648	611		124.70	124.40												
SR6 54+34	37 LT	649		129.50														
SR6 54+34	49 LT	650		130.50														
		650	649		127.50	127.00												
SR6 53+08	38 LT	651		131.50														
SR6 53+07	49 LT	652		128.90														
		652	651		125.90	125.50												
SR6 50+90	40 LT	653		131.50														
SR6 50+90	49 LT	654		129.00														
		654	653		126.00	125.50												
Y1RPB 16+90	44 LT	655		129.10														
		655	634		120.30	120.00												
LA 106+79	99 RT	656		131.70														
		656	630		126.00	124.70	.5											
Y1RPD 13+32	24 LT	657		130.70														
		657	658		127.70	124.80	.9											
LA 107+50	87 LT	659		133.30														
		659	660		130.30	124.20	1.1											
LA 93+00	92 LT	661		127.85														
		661	637		123.00	122.50												
LA 93+00	93 RT	662		127.70														
		662	645		123.85	123.30												
LA 99+50	86 LT	663		129.35														
						SHEET TOTAL												

LINE & STATION	C. S. PIPE SIZE 15	18	24	30	36	42	48	R. C. PIPE CLASS III SIZE 15	18	24	30	36	42	48	R. C. PIPE CLASS IV SIZE 15	18	24	30	36	42	48
THICKNESS OR GAUGE	0.064	0.064	0.064	0.079	0.079	0.109	0.109														
Y1RPB 20+25																					
																					52
Y1RPB 18+55																					
																					204
Y1RPC 16+50																					
																144					
Y1RPB 15+18																					
																					168
LA 91+00																					
																			72		
LA 95+50																					
																		248			
LA 101+00																					
																	204				
LA 103+00																					
																	112				
LA 101+00																					
																	128				
Y1RPD 16+64																					
																			308		
LA 91+00																					
Y1RPB 14+36																					
															12						
LA 110+00																					
															24						
LA 95+58																					
																	72				
SR6 54+34																					
SR6 54+34																					
															12						
SR6 53+08																					
SR6 53+07																					
															12						
SR6 50+90																					
SR6 50+90																					
															12						
Y1RPB 16+90																					
																					168
LA 106+79																					
																24					
Y1RPD 13+32																					
LA 107+50																					
LA 93+00																					
																		196			
LA 93+00																					
															196						
LA 99+50																					
SHEET TOTAL															268	168	516	444	380		592

LINE & STATION	16" WELDED STEEL PIPE 0.25" THICK, GRADE B IN SOIL	18" WELDED STEEL PIPE 0.25" THICK, GRADE B IN SOIL	24" WELDED STEEL PIPE 0.50" THICK, GRADE B IN SOIL	30" WELDED STEEL PIPE 0.50" THICK, GRADE B IN SOIL	36" WELDED STEEL PIPE 0.50" THICK, GRADE B IN SOIL	42" WELDED STEEL PIPE 0.625" THICK, GRADE B IN SOIL	48" WELDED STEEL PIPE 0.625" THICK, GRADE B IN SOIL	16" WELDED STEEL PIPE 0.25" THICK, GRADE B NOT IN SOIL	18" WELDED STEEL PIPE 0.25" THICK, GRADE B NOT IN SOIL	24" WELDED STEEL PIPE 0.50" THICK, GRADE B NOT IN SOIL	30" WELDED STEEL PIPE 0.50" THICK, GRADE B NOT IN SOIL	36" WELDED STEEL PIPE 0.50" THICK, GRADE B NOT IN SOIL	42" WELDED STEEL PIPE 0.625" THICK, GRADE B NOT IN SOIL	48" WELDED STEEL PIPE 0.625" THICK, GRADE B NOT IN SOIL	ENDWALLS STD. 838.01 OR STD.838.11 (UNLESS OTHERWISE NOTED) CY	REINFORCED ENDWALLS CY	QUANTITIES FOR 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 D.I. STD. 852.06 OR STD. 852.04	C.B. STD. 852.05	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATE 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. (W.S. FLAT) FRAME W/ 2 GRATES STD. 840.20	G.D.I. (W.S. SAG) FRAME W/ 2 GRATES STD. 840.22	G.D.I. (N.S. SAG) FRAME W/ 2 GRATES STD. 840.24	J.B. STD. 840.31 OR 840.32	T.B.J.B. STD. 840.24	T.B.D.I. STD. 840.35	T.B.D.I. FOR STEEL GRATES STD. 840.36	STEEL FRAME AND TWO GRATES STD. 840.37	M.H. STD. 840.51, STD. 840.52, OR STD.53	M.H. FRAME AND COVER STD. 840.54	TEMP STEEL PLATE COVER MASONARY DRAINAGE	15" C.S. ELBOW	15" SIDE DRAIN PIPE ELBOW	FLOWABLE FILL, C.Y.	PIPE REMOVAL LIN. FT.	REMARKS
Y1RPB 20+25																			1	4.5									1				1				1											
Y1RPB 18+55																			1	2.9									1				1															
																																																256
Y1RPC 16+50																			1												1		1															
Y1RPB 15+18																			1	1.1									1				1															SEE SPECIAL DETAIL SHEET 2C-12
																																																328
LA 91+00																			1	1.5									1				1															
LA 95+50																			1										1				1															SEE SPECIAL DETAIL SHEET 2C-12
LA 101+00																			1										1				1															SEE SPECIAL DETAIL SHEET 2C-12
LA 103+00																			1										1				1															
																																														15.6		
LA 101+00																																																
Y1RPD 16+64																			1	1.9																	1					1						
																																																365
LA 91+00																			1														1		1													
Y1RPB 14+36																			1														1		1													
LA 110+00																			1														1		1													
LA 95+58																			1	1.7																				1	1							
																																														9.6		
SR6 54+34																			1	2.9																	1					1						
SR6 54+34																			1									1	1																			
SR6 53+08																			1	2.6																	1					1						
SR6 53+07																			1									1	1																			
SR6 50+90																			1	1.7																	1					1						
SR6 50+90																			1									1	1																			
Y1RPB 16+90																			1	3.3										1				1														
LA 106+79																			1	0.7																				1	1							
Y1RPD 13+32																			1																					1	1							
LA 107+50																			1																					1	1							
LA 93+00																			1										1				1															SEE SPECIAL DETAIL SHEET 2C-12
LA 93+00																			1										1				1															
LA 99+50																			1														1		1													
SHEET TOTAL															96				96									26	24.8						3	3	10	3	2	2	13		4			4	4		4				25.2	949	

ABBREVIATIONS

C.A.A - CORRUGATED ALUMINUM INLET
C.B - CATCH BASIN
C.S. - CORRUGATED STEEL
D.I. - DROP INLET
G.D.I. - GRATED DROP INLET
P.D.P.E. - HIGH DENSITY POLYETHYLENE
J.B. - JUNCTION BOX
M.H. - MANHOLE
N.S. - NARROW SLOT
P.V.C. - POLYVINYL CHLORIDE
R.C. - REINFORCED CONCRETE
T.B.D.I. - TRAFFIC BEARING DROP INLET
T.B.J.B. - TRAFFIC BEARING JUNCTION BOX
W.S. - WIDE SLOT