COMPUTED BY:	CJH	DATE:	3/11/2022
CHECKED BY:	WJW	DATE:	5/4/2022

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
I-5987A	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)

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																		
		501	438		125.70	124.60												
SR6 41+50	20 LT	502		128.68														
		502	542		122.60	122.50												
SR6 41+80	20 RT	503		128.59														
		503	509		125.40	124.90												
LA 78+50	84 LT	504		128.40														
		504	544		124.30	123.90												
LA 78+50	3 LT	505		129.50														
		505	506		125.40	125.30												
LA 78+50	3 RT	506		129.60														
		506	510		125.30	125.10												
LA 78+50	74 RT	507		128.80														
		507	511		124.70	124.30												
SR6 42+34	20 LT	508		128.48														
		508	502		122.80	122.60												
SR6 42+34	20 RT	509		128.49														
		509	508		122.90	122.80												
LA 78+83	3 RT	510		129.50														
		510	538		125.10	124.80												
LA 78+83	74 RT	511		128.80														
		511	539		124.30	124.10												
SR6 42+72	20 RT	512		128.55														
		512	509		123.00	122.90												
LA 79+05	84 LT	513		128.35														
		513	512		123.10	123.00												
LA 79+05	3 LT	514		129.43														
		514	513		123.30	123.10												
LA 79+50	84 LT	515		128.38														
		515	513		123.80	123.60	.7											
LA 79+50	3 LT	516		129.46														
		516	517		125.40	125.30												
LA 79+50	3 RT	517		129.56														
		517	538		125.30	124.80	.4											
LA 79+50	74 RT	518		128.84														
		518	539		124.70	124.10												
SR6 43+32	33 LT	519		128.62														
		519	508		125.40	124.50												
LA 81+00	76 RT	520		129.43														
		520	518		125.40	124.70												
SR6 44+85	32 LT	521		129.95														
		521	519		126.70	125.40												
SR6 45+00	20 RT	522		130.33														
		522	512		127.10	124.20												
LA 82+00	84 LT	523		129.19														
		523	515		125.10	123.80												
LA 83+00	3 LT	524		130.45														
		524	516		126.40	125.40												
SR6 48+61	20 LT	525		131.22														
		525	526		128.00	127.80												
SR6 48+61	20 RT	526		131.22														
						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														
															148						
SR6 41+50																					
																				36	
SR6 41+80																					
															56						
LA 78+50																					
															44						
LA 78+50																					
															8						
LA 78+50																					
															32						
LA 78+50																					
															32						
SR6 42+34																					
																				88	
SR6 42+34																					
																			40		
LA 78+83																					
															20						
LA 78+83																					
															20						
SR6 42+72																					
																			36		
LA 79+05																					
																			16		
LA 79+05																					
																			80		
LA 79+50																					
															44						
LA 79+50																					
															8						
LA 79+50																					
															44						
LA 79+50																					
															44						
SR6 43+32																					
															100						
LA 81+00																					
															148						
SR6 44+85																					
															152						
SR6 45+00																					
															228						
LA 82+00																					
															248						
LA 83+00																					
															348						
SR6 48+61																					
															40						
SR6 48+61																					
SHEET TOTAL															1764				172	124	

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 OR STD. 852.05	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	G.D.I. (N.S. SAG) FRAME W/ 2 GRATES STD. 840.32	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
SR6 41+50																						1	1.1		1			1																									
SR6 41+80																						1			1		1																									
LA 78+50																						1																										1	1					
LA 78+50																						1																										1	1					
LA 78+50																						1																										1	1					
SR6 42+34																						1	0.7		1	1																											
SR6 42+34																						1	0.6		1	1																											
LA 78+83																						1																										1	1					
LA 78+83																						1																										1	1					
SR6 42+72																						1	0.5		1			1																									
LA 79+05																						1	0.3																									1	1					
LA 79+05																						1	1.1																									1	1					
LA 79+50																						1																										1	1					
LA 79+50																						1																										1	1					
LA 79+50																						1																										1	1					
SR6 43+32																						1			1		1																									
LA 81+00																						1																										1	1					
SR6 44+85																						1			1		1																									
SR6 45+00																						1			1			1																									
LA 82+00																						1																										1	1					
LA 83+00																						1																										1	1					
SR6 48+61																						1			1	1																											
SR6 48+61																						1			1	1																											
SHEET TOTAL																						25	4.3		10	4	3	3																			15	15						1006

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