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-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)

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 THICKNESS OR GAUGE	18	24	30	36	42	48	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE
		426	425		124.80	124.50												
LA 72+13		427		128.20														
	20 LT	427	421		122.80	122.70	.4											
LA 72+13		428		127.50														
	20 RT	428	427		122.90	122.80	.3											
LA 72+37		429		127.50														
	72 LT	429	428		123.00	122.90												
SR6 36+10		430		127.09														
	79 RT	430	422		123.90	123.40												
SR6 36+10		431		127.09														
	79 RT	431	423		123.90	123.20												
LA 72+50		432		128.10														
	74 RT	432	424		124.00	123.80												
LA 72+50		433		128.80														
	42 LT	433	425		124.80	124.50												
LA 72+50		434		129.00														
	42 LT	434	433		124.90	124.80												
LA 72+50		435		128.40														
	49 LT	435	427		124.40	124.00												
LA 73+15	40 LT	436		128.20														
		436	429		123.60	123.30												
SR6 37+66	20 LT	437		127.79														
		437	409		121.10	120.80												
SR6 37+50	20 RT	438		127.93														
		438	431		124.60	123.90												
SR6 28+69	72 LT	439		125.40														
SR6 34+75		440		127.00														
	3 LT	440	401		120.60	120.30												
SR6 28+69		441		125.40														
SR6 31+09	3 RT	442		128.20														
		442	451		120.60	120.10												
LA 67+40	74 RT	443		128.50														
		443	404		121.00	120.80												
LA 67+40	79 RT	444		128.60														
		444	443		121.10	121.00	.3											
LA 67+40	72 LT	445		127.90														
		445	444		121.30	121.10												
SR6 31+90	3 LT	446		125.70														
		446	401		122.70	122.60	.6											
SR6 34+75	74 RT	447		124.90														
		447	440		121.90	121.80	.4											
SR6 35+78	20 LT	448		125.40														
		448	408		122.40	122.30												
SR6 29+07	20 RT	449		126.50														
		449	439		120.10	120.00												
SR6 29+01	72 LT	450		127.00														
		450	410		120.10	120.00												
SR6 28+95	4 LT	451		127.50														
		451	441		120.10	120.00												
SR6 39+00	3 RT	501		128.90														
						SHEET TOTAL												

LINE & STATION	C. S. PIPE SIZE 15 THICKNESS OR GAUGE	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
	0.064	0.064	0.064	0.079	0.079	0.109	0.109														
LA 72+13															8						
																			16		
LA 72+13																					
																			8		
LA 72+37																					
																			24		
SR6 36+10																					
															36						
SR6 36+10																					
															36						
LA 72+50																					
															40						
LA 72+50																					
															36						
LA 72+50																					
															8						
LA 72+50																					
LA 73+15															36						
																	76				
SR6 37+66																					
																					132
SR6 37+50																					
															140						
SR6 28+69																					
SR6 34+75																					
																					288
SR6 28+69																					
SR6 31+09																					
																					216
LA 67+40																					
																					72
LA 67+40																					
																				8	
LA 67+40																					
																				72	
SR6 31+90																					
															8						
SR6 34+75																					
															8						
SR6 35+78																					
															8						
SR6 29+07																					
																					40
SR6 29+01																					
																		36			
SR6 28+95																					
																					32
SR6 39+00																					
SHEET TOTAL															364		76	36	48	80	780

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. 852.04 OR STD. 852.06	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. 840.34	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
LA 72+13																		1	0.4																			1	1							T.B. PRECAST DRAINAGE STRUCTURE (STD. 840.46)
LA 72+13																		1																				1	1							T.B. PRECAST DRAINAGE STRUCTURE (STD. 840.46)
LA 72+37																		1																				1	1							T.B. PRECAST DRAINAGE STRUCTURE (STD. 840.46)
SR6 36+10																		1			1		1																						
SR6 36+10																		1			1			1																						
LA 72+50																		1																				1	1							
LA 72+50																		1																				1	1							
LA 72+50																		1																				1	1							
LA 73+15																		1																	1		1									SEE SPECIAL DETAIL SHEET 2C-12
SR6 37+66																		1	1.7		1		1																						
SR6 37+50																		1			1			1																						
SR6 28+69																																													SEE SPECIAL DETAIL SHEET 2C-8 (SEE TOTAL QUANITITY AT STRUCTURE # 0410)
SR6 34+75																		1	1.4														1					1					1			
																																												284	
SR6 28+69																																													SEE SPECIAL DETAIL SHEET 2C-8 (SEE TOTAL QUANITITY AT STRUCTURE # 0410)
SR6 31+09																		1	2.6														1												
LA 67+40																		1	2.5																			1	1							T.B. PRECAST DRAINAGE STRUCTURE (STD. 840.46)
LA 67+40																		1	2.5																			1	1							T.B. PRECAST DRAINAGE STRUCTURE (STD. 840.46)
LA 67+40																		1	1.6																			1	1							T.B. PRECAST DRAINAGE STRUCTURE (STD. 840.46)
SR6 31+90																		1								1	1																		
SR6 34+75																		1								1	1																		
SR6 35+78																		1								1	1																		
SR6 29+07																		1	1.4														1										1			
SR6 29+01																		1	1.9														1										1			
SR6 28+95																		1	2.4														1										1			
SR6 39+00																		1			1			1																						
SHEET TOTAL																		24	18.4		5		2	3		3	3	1			1		5			10	10		5				9.6	284	

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