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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
U-6003	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	TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %	Side Drain Pipe (RCP, CSP, CAAP, HDPE, or PVC) 12	15	18	24	30	36	42	48	C. S. PIPE 12 (.064)	15 (.064)	18 (.064)	24 (.064)	30 (.079)	36 (.079)	42 (.109)	48 (.109)	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
			0502	0505		973.0	967.6	0.8																											200					
L 20+00	29	LT	0503		976.4																																			
			0503	0502		973.2	973.0																												40					
L 22+00	10	RT	0505		970.8																																			
			0505	0507		967.6	955.2	0.8																											224					
L 24+22	10	RT	0507		958.5																																			
			0507	0526		955.2	954.6	0.9																											20					
L 24+22	29	LT	0508		957.9																																			
			0508	0526		954.9	954.8																												20					
L 25+17	51	LT	0509			952.8																																		
			0509	0528		952.8	949.0													28																				
L 27+00	10	LT	0511		939.2																																			
			0511	0541		935.4	925.7	0.4																												120				
L 28+00	62	RT	0513		927.3																																			
			0513	0540		927.3	924.4																							36										
L 29+00	10	LT	0515		929.9																																			
			0515	0529		920.9	916.1																							40										
L 28+60	29	RT	0516		929.7																																			
			0516	0540		926.7	926.6																										36						
L 29+85	10	LT	0517		927.5																																			
			0517	0515		924.5	924.2																										84						
L 30+85	29	LT	0519		925.6																																			
			0519	0523		918.3	917.7																										12						
L 30+85	30	RT	0520		925.5																																			
			0520	0534		919.3	918.2																												16				
L 31+22	30	RT	0521		925.4																																			
			0521	0520		921.6	919.3																												36				
L 31+22	30	LT	0522		925.4																																			
			0522	0519		921.6	918.3																										28						
L 32+00	29	LT	0524		925.8																																			
			0524	0522		922.8	921.6																										76						
L 27+05	77	LT	0525		923.0																																			
			0525	0529		923.0	916.1																							212										
L 24+22	10	LT	0526		958.3																																			
			0526	0527		954.6	948.7	1.1																											108					
L 25+17	9	LT	0527		951.9																																			
			0527	0511		948.2	935.4	0.4																												164				
L 25+17	29	LT	0528		952.8																																			
			0528	0527		949.0	948.2																												16				
L 29+25	50	LT	0529		927.5																																			
			0529	0518		916.1	916.0																								32									
L 24+06	29	LT	0532		958.8																																			
			0532	0508		955.8	954.9																										16						
L 28+20	30	RT	0540		931.4																																			
			0540	0541		924.4	924.2																							20										
L 28+20	9	LT	0541		932.9																																			
			0541	0515		924.2	920.9																							80										
L 32+50	30	RT	0601		926.5																																			
			0601	0521		922.8	921.6																												128				
L 34+00	30	RT	0602		930.9																																			
								SHEET TOTALS												28												388	32		252	612	480					

FROM	TO	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CY	REINFORCED ENDWALLS CY	DRAINAGE STRUCTURE MASONRY CY	QUANTITIES FOR DRAINAGE STRUCTURES (NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B)) 0' THRU 5' EACH	A 5' THRU 10' LIN. FT.	B 10' AND ABOVE LIN. FT.	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES, AND HOOD STD. 840.03 GRATE TYPE 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 GRATES STD. 840.16	G.D.I. TYPE "A" STD. 840.17 OR STD. 840.26	G.D.I. TYPE "B" STD. 840.18 OR STD. 840.27	G.D.I. TYPE "D" STD. 840.19 OR STD. 840.28	G.D.I. (W.S. FLAT) FRAME WITH GRATE STD. 840.2	G.D.I. (W.S. FLAT) FRAME W/ 2 GRATES STD. 840.	G.D.I. (W.S. SAG) FRAME W/ GRATE STD. 840.22	G.D.I. (W.S. SAG) FRAME W/ 2 GRATES STD. 840.2	G.D.I. (N.S. SAG) FRAME W/ GRATE STD. 840.24	G.D.I. (N.S. SAG) FRAME W/ 2 GRATES STD. 840.24	G.D.I. (N.S. FLAT) FRAME W/ GRATE STD. 840.29	G.D.I. (N.S. FLAT) FRAME W/ 2 GRATES STD. 840.2	DRIVEWAY D.I. STD. 840.30	FRAME W/ GRATE FOR DRIVEWAY STD. 840.30	J.B. STD. 840.31 OR STD. 840.32	ANGLED VANE GRATES AND FRAMES STD. 840.33	T.B.J.B. STD. 840.34	T.B.D.I. STD. 840.35	T.B.D.I. FOR STEEL GRATES STD. 840.36	M.H. STD. 840.51, STD. 840.52, OR STD. 840.53	M.H. FRAME AND COVER STD. 840.54	CONVERT EXISTING C.B. TO J.B.	CONVERT EXISTING C.B. TO D.I.	15" C.S. ELBOW	18" C.S. ELBOW	24" C.S. ELBOW	30" C.S. ELBOW	36" C.S. ELBOW	BERM DRAINAGE OUTLET STD. 850.10(4" CONC PAVED DITCH SY)	BERM DRAINAGE OUTLET STD. 850.11(4" CONC PAVED DITCH SY)	PIPE REMOVAL LIN. FT.	REMARKS
0502	0505																																														
0503					1			1			1																																				
0503	0502																																														
0505					1			1			1																																				
0505	0507																																														
0507					1			1			1																																				
0507	0526																																														
0508					1			1			1																																				
0508	0526																																														
0509																																												11		
0509	0528																																							2						
0511					1			1		1				1																																	
0511	0541																																														
0513		4.500																																													
0513	0540																																														
0515					1	4.0		1		1				1																																	
0515	0529																																														
0516					1			1		1																																					
0516	0540																																														
0517					1			1		1				1																																	
0517	0515																																														
0519					1	2.3		1			1																																				
0519	0523																																														
0520					1	1.2		1		1																																					
0520	0534																																														
0521					1			1	1																																						
0521	0520																																														
0522					1			1	1																																						
0522	0519																																														
0524					1			1		1																																					
0524	0522																																														
0525		4.500																																													
0525	0529																																														
0526					1			1			1																																				
0526	0527																																														
0527					1			1		1				1																																	
0527	0511																																														
0528					1			1			1																																				
0528	0527																																														
0529					1	5.0	1.4																								1						1										
0529	0518																																														
0532					1			1			1																																				
0532	0508																																														
0540					1	2.0		1		1																																					
0540	0541																																														
0541					1	3.8		1		1				1																																	
0541	0515																																														
0601					1			1			1																																				
0601	0521																																														
0602					1			1			1																																				
SHEET TOTALS		9.000			22	18.3	1.4	21	2	9	10			5																	1						1					2				11		

ABBREVIATIONS

C.A.A.	CORRUGATED ALUMINIUM ALLOY
C.B.	CATCH BASIN
C.S.	CORRUGATED STEEL
D.I.	DROP INLET
G.D.I.	GRATED DROP INLET
H.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