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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
U-5839	3D-4

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 / SIZE / THICKNESS OR GAUGE	OFFSET	STRUCTURE NUMBER FROM	STRUCTURE NUMBER TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %
		1013	1009		2652.5	2649.2	
L 40+32	45LT	1014		2632.6			
		1014	1015		2629.0	2628.9	
L 40+37	38LT	1015		2632.0			
		1015	1016		2628.7	2628.4	
L 40+37	4LT	1016		2633.1			
L 40+28	38RT	1017		2631.6			
		1017	921		2625.6	2625.1	
L 46+00	38 RT	1101		2660.6			
		1101	1011		2655.7	2655.6	
L 45+93	26 LT	1102		2660.7			
L 46+01	43 LT	1103		2661.4			
Y11 11+47	9 RT	1104		2661.9			
		1104	1103		2658.9	2656.5	0.3
L 46+68	26 LT	1105		2664.5			
L 46+68	38 LT	1106		2664.0			
		1106	1105		2660.5	2660.1	
L 50+65	52 LT	1110		2672.9			
		1110	1111		2667.9	2667.2	1.0
		1111	1112		2664.3	2663.4	1.8
L 50+68	38 LT	1111		2671.4			
		1112	1118		2662.9	2662.8	
L 50+68	38 RT	1112		2671.4			
L 50+23	52 RT	1113		2670.5			
Y13 10+84	28 LT	1114		2673.3			
L 50+41	38 LT	1116		2671.3			
		1116	1111		2667.6	2667.5	
L 51+00	38 LT	1117		2671.5			
		1117	1111		2667.4	2667.2	
L 50+42	38 RT	1118		2671.3			
		1118	1113		2662.8	2662.7	
L 51+00	42 RT	1119		2671.5			
		1119	1112		2666.8	2666.3	
L 48+54	52 LT	1120		2676.2			
		1120	1121		2665.0	2664.7	
L 48+54	38 LT	1121		2670.1			
		1121	1106		2664.7	2660.5	
L 46+69	60 LT	1122		2664.1			
		1122	1106		2662.0	2660.8	
L 47+03	61 LT	1123		2672.7			
		1123	1122		2665.0	2662.0	
L 51+66	49 RT	1202		2671.6			
		1202	1119		2667.9	2666.8	
L 52+07	49 RT	1203		2671.9			
		1203	1202		2668.1	2667.9	
L 52+30	65 RT	1204		2672.3			
		1204	1203		2668.2	2668.1	
L 52+62	67 RT	1205		2672.3			
		1205	1204		2669.1	2668.4	
L 53+03	38 RT	1206		2672.4			

FROM	TO	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	DO NOT USE PVC	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"
1013	1009																						60						
1014																													
1014	1015																						8						
1015																													
1015	1016																							32					
1016																													
1017																													
1017	921																							12					
1101																													
1101	1011																						20						
1102																													
1103																													
1104																													
1104	1103																						24						
1105																													
1106																													
1106	1105																							8					
1110																													
1110	1111																							16					
1111	1112																							76					
1111																													
1112	1118																									24			
1112																													
1113																													
1114																													
1116																													
1116	1111																						24						
1117																													
1117	1111																							32					
1118																													
1118	1113																									24			
1119																													
1119	1112																							32					
1120																													
1120	1121																						12						
1121																													
1121	1106																						185						
1122																													
1122	1106																						24						
1123																													
1123	1122																						32						
1202																													
1202	1119																							64					
1203																													
1203	1202																							40					
1204																													
1204	1203																							28					
1205																													
1205	1204																						28						
1206																													
SHEET TOTAL																							417	340		48			

FROM	TO	ENDWALLS STD. 838.01 OR STD.838.11 (UNLESS OTHERWISE NOTED) CY	REINFORCED ENDWALLS CY	DRAINAGE STRUCTURE MASONRY 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 "B" STD. 840.18 OR STD. 840.27	G.D.I. (N.S. SAG) FRAME W/ 2 GRATES STD. 840.24	G.D.I. (N.S. FLAT) FRAME W/ 2 GRATES STD. 840.29	SPECIAL OFFSET CB W/ MANHOLE (DETAIL 2D-1)	J.B. STD. 840.31 OR 840.32	T.B. J.B. STD. 840.34	T.B.D.I. STD. 840.35	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 D.I. TO J.B.	ADJUST C.B.	ADJUST D.I.	ADJUST M.H	CONC. COLLARS CL. "B" C.Y. STD. 840.72	FLOWABLE FILL, C.Y.	CONC. & BRICK PLUG, C.Y. STD. 840.71	PIPE REMOVAL LIN. FT.	REMARKS
1013	1009																																	
1014					1															1				1										
1014	1015																																	
1015					1			1		1																							14	
1015	1016																																	
1016					1							1		1	1																		39	
1017					1	1.0		1			1																							
1017	921																																	
1101					1			1			1																							
1101	1011																																	
1102																												1						
1103																								1	1									
1104					1			1		1																								
1104	1103																																	
1105					1																1			1										
1106					1			1		1																								
1106	1105																																	
1110					1	0.1								1	1																		35	
1110	1111																																	
1111	1112																																	
1111					1	2.1		1	1																						10.056			
1112	1118																																	
1112					1	3.5		1	1																									
1113																								1		1							101	
1114					1	5.0	7.5	1		1																								
1116					1			1			1																							
1116	1111																																	
1117					1			1		1																					5.445			
1117	1111																																	
1118					1	3.5		1		1																								
1118	1113																																	
1119					1			1			1																						24	
1119	1112																																	
1120					1	5.0	1.2							1																				
1120	1121																																	
1121					1	0.4		1		1																								
1121	1106																																	
1122					1															1														
1122	1106																																	
1123					1	2.7								1																				
1123	1122																																	
1202					1			1			1																							
1202	1119																																	
1203					1			1			1																						116	
1203	1202																																	
1204																											1							
1204	1203																																	
1205					1			1		1																					2.500		10	
1205	1204																																	
1206					1			1			1																							
SHEET TOTAL					24	23.3	8.7	17	2	8	7	1		4	2					2	1			4	1	1	1		1		18.00		339	

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