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PROJECT NO.	SHEET NO.
B-5898	3D-3

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 (SIZE / THICKNESS OR GAUGE)	OFFSET	STRUCTURE NUMBER FROM	STRUCTURE NUMBER TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %	C. S. PIPE 12 .064	C. S. PIPE 15 .064	C. S. PIPE 18 .064	C. S. PIPE 24 .064	C. S. PIPE	C. S. PIPE 30 .079	C. S. PIPE	R. C. PIPE CLASS III 12	R. C. PIPE CLASS III 15	R. C. PIPE CLASS III 18	R. C. PIPE CLASS III	R. C. PIPE CLASS IV 12	R. C. PIPE CLASS IV 15	R. C. PIPE CLASS IV 18	R. C. PIPE CLASS IV 24	R. C. PIPE CLASS IV 30	R. C. PIPE CLASS IV
L 46+95	1 RT	0704		2588.6																				
		0704	0702		2584.1	2583.7															84			
L 47+58	3 RT	0705		2589.3																				
		0705	0704		2584.8	2584.1															64			
L 53+80	17 RT	0708		2615.4																				
		0708	0728		2609.9	2606.3	0.3																48	
L 48+00	5 RT	0709		2589.7																				
		0709	0705		2585.2	2584.8															40			
Y1RT 32+01	8 LT	0710		2628.0																				
		0710	0717		2621.6	2611.6				52														
Y1LT 25+20	21 LT	0711		2603.7																				
		0711	0715		2599.2	2593.6				96														
L 51+45	75 RT	0712		2599.0																				
		0712	0719		2593.5	2589.6	0.5																68	
Y1RT 25+52	9 LT	0713		2617.8																				
		0713	0715		2613.3	2593.6				48														
Y1RT 26+08	8 LT	0714		2619.8																				
		0714	0713		2615.3	2613.3											60							
Y1RT 25+50	56 LT	0715		2596.6																				
		0715	1020		2593.6	2590.6											420							
L 52+71	75 RT	0716		2605.4																				
		0716	0712		2598.7	2593.5																	120	
L 50+72	81 RT	0719		2595.1																				
		0719	0718		2589.6	2574.4	2.8						60											
L 51+02	15 RT	0720		2597.2																				
		0720	0732		2592.2	2592.2																4		
Y1LT 28+30	21 LT	0721		2609.0																				
		0721	0720		2604.0	2592.2																160		
Y1LT 28+30	26 LT	0722		2613.1																				
		0722	0721		2604.5	2604.0																4		
Y1LT 32+02	21 LT	0723		2623.9																				
		0723	0724		2619.4	2614.8															84			
L 55+01	9 RT	0724		2619.3																				
		0724	0725		2614.8	2614.8															4			
L 55+01	14 RT	0725		2621.7																				
		0725	0708		2613.8	2609.9	0.3																120	
Y1RT 30+34	8 LT	0726		2627.0																				
		0726	0727		2622.2	2622.0															88			
Y1RT 31+26	8 LT	0727		2627.4																				
		0727	0710		2622.0	2621.6															72			
L 53+80	67 RT	0728		2611.8																				
		0728	0716		2604.6	2598.7	0.5																100	
Y1RT 31+61	48 LT	0729		2608.4																				
		0729	0728		2604.4	2604.6																24		
L 58+99	76 LT	0730		2637.5																				
		0730	0731		2631.5	2630.2																	4	
L 58+99	71 LT	0731		2635.7																				
		0731	0801		2630.2	2629.8																	72	
L 51+02	20 RT	0732		2601.0																				
		0732	0719		2591.7	2589.6																	68	
SHEET TOTALS										196			60				480				436	192	600	

STRUCTURE FROM	STRUCTURE TO	ELLIPTICAL 19" x 30" RCP CLASS III	12" FUNNEL DRAIN PIPE	24" WELDED STEEL PIPE	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CY	REINFORCED ENDWALLS CY	DRAINAGE STRUCTURE MASONRY CY	QUANTITIES FOR DRAINAGE STRUCTURES 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	GRATE TYPE F	GRATE TYPE G	
0704								1							
0704	0702														
0705								1							
0705	0704														
0708								1	0.5						
0708	0728														
0709								1							
0709	0705														
0710								1	1.3						
0710	0717														
0711								1							
0711	0715														
0712								1	0.5						
0712	0719														
0713								1							
0713	0715														
0714								1							
0714	0713														
0715								1							
0715	1020														
0716								1							
0716	0712														
0719								1	0.5						
0719	0718														
0720								1							
0720	0732														
0721								1							
0721	0720														
0722								1	3.6						
0722	0721														
0723								1							
0723	0724														
0724								1							
0724	0725														
0725								1	2.9						
0725	0708														
0726								1							
0726	0727														
0727								1	0.5						
0727	0710														
0728								1	3.0						
0728	0716														
0729								1							
0729	0728														
0730								1	1.0						
0730	0731														
0731								1	0.5						
0731	0801														
0732								1	4.4						
0732	0719														
SHEET TOTALS								25	18.7						

STRUCTURE FROM	STRUCTURE TO	CONCRETE TRANSITIONAL SECTION: D.I. STD. 852.04 OR STD. 852.06	CONCRETE TRANSITIONAL SECTION: C.B. STD. 852.05	OPEN THROAT C.B. STD. 840.04 OR STD. 840.05	CONCRETE BRIDGE APPROACH D.I. STD. 840.13	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. 840.20	G.D.I. (W.S. FLAT) FRAME W/ 2 GRATES STD. 840.20	G.D.I. (W.S. SAG) FRAME W/ GRATE STD. 840.22	G.D.I. (W.S. SAG) FRAME W/ 2 GRATES STD. 840.22	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. 840.29	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	STEEL FRAME WITH TWO GRATES STD. 840.37	M.H. FRAME AND COVER STD. 840.54	
0704																									1	1		
0704	0702																											
0705																									1	1		
0705	0704																											
0708								1				1																
0708	0728																											
0709																									1	1		
0709	0705																											
0710																									1	1		
0710	0717																											
0711									1			1																
0711	0715																											
0712																							1				1	
0712	0719																											
0713																									1	1		
0713	0715																											
0714																									1	1		
0714	0713																											
0715									1					1														
0715	1020																											
0716																							1				1	
0716	0712																											
0719								1				1																
0719	0718																											
0720																									1	1		
0720	0732																											
0721																									1	1		
0721	0720																											
0722									1			1																
0722	0721																											
0723									1			1																
0723	0724																											
0724																									1	1		
0724	0725																											
0725									1			1																
0725	0708																											
0726																									1	1		
0726	0727																											
0727																									1	1		
0727	0710																											
0728																							1				1	
0728	0716																											
0729								1			1	1																
0729	0728																											
0730								1			1	1																
0730	0731																											
0731								1				1																
0731	0801																											
0732								1				1																
0732	0719																											
SHEET TOTALS								6	5		2	10		1									3		11	11	3	

STRUCTURE FROM	STRUCTURE TO	CONVERT EXISTING C.B. TO J.B.	CONVERT EXISTING C.B. TO D.I.	CONVERT EXISTING D.I. TO J.B.	CONVERT EXISTING J.B. TO D.I.	ADJUST C.B.	ADJUST D.I.	FUNNEL DRAIN STD. 820.01	12" FUNNEL DRAIN ELBOW	15" C.S. ELBOW	18" C.S. ELBOW	24" C.S. ELBOW	30" C.S. ELBOW	36" C.S. ELBOW	MODIFIED CONC. FLUME	PREFORMED SCOUR HOLE (PER EACH)	ENERGY DISSIPATION BASIN		FLOWABLE FILL CY	CONCRETE COLLARS CL. "B" STD. 840.72 CY	CONCRETE AND BRICK PIPE PLUG STD. 840.71 CY	PIPE REMOVAL LIN. FT.	REMARKS
0704																						1020	
0704	0702																						
0705																							
0705	0704																						
0708																							
0708	0728																						
0709																							
0709	0705																						
0710																							
0710	0717										2												
0711																							
0711	0715										2												
0712																							
0712	0719																						
0713																							
0713	0715										2												
0714																							
0714	0713																						
0715																							
0715	1020																						
0716																							
0716	0712																						
0719																							
0719	0718												2										
0720																							
0720	0732																						
0721																							
0721	0720																						
0722																							
0722	0721																						
0723																							
0723	0724																						
0724																							
0724	0725																						
0725																							
0725	0708																						
0726																							
0726	0727																						
0727																							
0727	0710																						
0728																							
0728	0716																						
0729																							3GI-A
0729	0728																						
0730																							3GI-A
0730	0731																						
0731																							
0731	0801																						
0732																							
0732	0719																						
SHEET TOTALS											6		2									1020	

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