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PROJECT NO.	SHEET NO.
U-6003	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)

SIZE / THICKNESS OR GAUGE

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) 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)
		0602	0601		927.2	923.3	0.5																
L 34+00	30 LT	0603		930.9																			
		0603	0602		927.7	927.2																	
L 35+50	30 RT	0604		938.5																			
		0604	0602		935.5	927.5	0.3																
L 35+50	29 LT	0605		938.5																			
		0605	0603		935.5	927.9																	
L 35+50	99 RT	0606			963.0																		
		0606	0604		963.0	935.5												68					
L 40+15	30 RT	0607		947.7																			
		0607	0611		944.4	933.6																	
L 40+15	101 RT	0608			970.5																		
		0608	0607		970.5	944.4	0.4												72				
L 40+15	29 LT	0609		947.7																			
		0609	0610		944.7	934.1																	
L 42+00	29 LT	0610		939.2																			
		0610	0611		933.8	933.6																	
L 42+00	30 RT	0611		939.2																			
		0611	0720		933.6	930.6	0.5																
L 42+50	29 LT	0612		937.3																			
		0612	0610		934.3	934.1																	
L 46+15	41 LT	0702		935.9																			
		0702	0709		932.9	931.8																	
L 44+42	30 RT	0703		932.6																			
		0703	0701		922.9	919.6	0.9																
L 44+27	10 LT	0705		934.0																			
		0705	0706		931.0	930.7																	
L 44+85	10 LT	0706		934.0																			
		0706	0707		930.5	929.2																	
L 44+85	30 RT	0707		932.4																			
		0707	0704		923.0	919.8	0.7																
L 46+15	10 LT	0709		935.0																			
		0709	0706		931.8	930.5																	
L 47+00	30 RT	0711		936.0																			
		0711	0718		932.7	930.2	0.3																
L 49+25	29 RT	0712		947.6																			
		0712	0711		944.2	932.7																	
L 49+25	30 LT	0713		947.8																			
		0713	0712		944.5	944.2																	
L 51+00	29 RT	0714		956.4																			
		0714	0712		953.4	944.5																	
L 51+00	30 LT	0715		956.4																			
		0715	0722		953.4	945.7																	
L 53+78	30 LT	0716		962.7																			
		0716	0808		959.7	959.0																	
L 53+78	9 RT	0717		963.4																			
		0717	0719		960.4	960.2																	
L 46+00	30 RT	0718		933.4																			
		0718	0707		930.2	929.2	0.4																
L 54+10	10 RT	0719		963.8																			
SHEET TOTALS																	68	72					

FROM	TO	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	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CY	REINFORCED ENDWALLS CY	DRAINAGE STRUCTURE MASONRY CY
0602	0601											148								
0603																				
0603	0602											56								
0604																				
0604	0602										148									
0605																				
0605	0603										148									
0606																				
0606	0604																			
0607																				
0607	0611											184								
0608																				
0608	0607																			
0609																				
0609	0610										184									
0610																				
0610	0611											56								
0611																				
0611	0720											136								
0612																				
0612	0610										48									
0702																				
0702	0709											24								
0703																				
0703	0701											28								
0705																				
0705	0706										72									
0706																				
0706	0707											20								
0707																				
0707	0704											32								
0709																				
0709	0706											112								
0711																				
0711	0718											96								
0712																				
0712	0711											220								
0713																				
0713	0712											52								
0714																				
0714	0712										176									
0715																				
0715	0722										156									
0716																				
0716	0808										128									
0717																				
0717	0719										32									
0718																				
0718	0707											96								
0719																				
SHEET TOTALS											1092	1260								

QUANTITIES FOR DRAINAGE STRUCTURES — NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B)

FROM	TO	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
0602	0601										
0603		1			1		1				
0603	0602										
0604		1			1			1			
0604	0602										
0605		1			1		1				
0605	0603										
0606											
0606	0604										
0607		1			1		1				
0607	0611										
0608											
0608	0607										
0609		1			1			1			
0609	0610										
0610		1	0.3		1			1			
0610	0611										
0611		1	0.6		1		1				
0611	0720										
0612		1			1			1			
0612	0610										
0702		1									
0702	0709										
0703		1	4.7		1		1				
0703	0701										
0705		1			1			1			1
0705	0706										
0706		1			1	1					1
0706	0707										
0707		1	4.4		1	1					
0707	0704										
0709		1			1			1			1
0709	0706										
0711		1			1			1			
0711	0718										
0712		1			1			1			
0712	0711										
0713		1			1		1				
0713	0712										
0714		1			1			1			
0714	0712										
0715		1			1		1				
0715	0722										
0716		1			1		1				
0716	0808										
0717		1			1		1				
0717	0719										
0718		1			1			1			
0718	0707										
0719		1			1		1				
SHEET TOTALS		23	10.0		22	2	10	10			3

FROM	TO	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. 840.3	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
0602	0601																																	
0603																																		
0603	0602																																	
0604																																		
0604	0602																																	
0605																																		
0605	0603																																	
0606																															11			
0606	0604																									2								
0607																																		
0607	0611																																	
0608																															11			
0608	0607																										2							
0609																																		
0609	0610																																	
0610																																		
0610	0611																																	
0611																																		
0611	0720																																	
0612																																		
0612	0610																																	
0702					1							1																						
0702	0709																																	
0703																																		
0703	0701																																	
0705																																		
0705	0706																																	
0706																																		
0706	0707																																	
0707																																		
0707	0704																																	
0709																																		
0709	0706																																	
0711																																		
0711	0718																																	
0712																																		
0712	0711																																	
0713																																		
0713	0712																																	
0714																																		
0714	0712																																	
0715																																		
0715	0722																																	
0716																																		
0716	0808																																	
0717																																		
0717	0719																																	
0718																																		
0718	0707																																	
0719																																		
SHEET TOTALS					1							1														2	2				22			

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