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TICIVILWORK717

COMPUTED BY: MSP DATE: 6/30/2017

CHECKED BY: EV DATE: 6/30/2017

PROJECT NO.	SHEET NO.
U-4751	3D-18

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 %	Side Drain Pipe (RCP, CSP, CAAP, HDPE, or PVC) 12	15	18	24	30	36	DO NOT USE CSP	DO NOT USE HDPE	DO NOT USE PVC	CAAP 12 .064	15 .064	18 .064	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	R. C. PIPE CLASS V 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	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	CONCRETE TRANSITIONAL SECTION C.B. STD. 852.05	OPEN THROAT C.B. STD. 840.04 OR STD. 840.05	Pipe Clean Out	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 W/ 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/ 2 GRATES STD. 840.29	J.B. STD. 840.31 OR STD. 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	SPECIAL TBJB W/MH	ADJUST C.B.	ADJUST D.I.	15" CAAP ELBOW	18" CAAP ELBOW	8" SLUICE GATE	MODIFIED CONC. FLUME	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
		1123	1124		44.2	40.5																							204																																																										
L 108+90	9 LT	1124		49.1																																											1	3.8							1				1	1																											
		1124	1128		40.3	38.5	0.7																							100																																																									
L 106+80	83 LT	1125		40.1																																																																																					
		1125	1126		40.1	39.7				48				X	X	X																																																																									
L 107+29	72 LT	1126		48.1																																											1	3.3																									1				1												
		1126	1127		39.8	39.3				80				X	X	X																																																																									
L 97+81	85 LT	1129		40.0																																																																																					
		1129	1129A		40.0	39.8																								188																																																									
L 97+84	85 LT	1130		40.0																																																																																					
		1130	1130A		40.0	39.8																								188																																																									
L 108+29	122 RT	1133		42.6																																											1			1	1																																									
		1133	1134		39.6	39.1			24					X																																																																												
L 110+50	63 RT	1201		45.4																																											1			1		1																																							
		1201	1202		41.7	41.4																							92																																																												
L 109+50	58 RT	1202		46.8																																											1	0.6		1		1																																							
		1202	1205		41.2	41.0																								72																																																											
L 110+95	10 LT	1203		48.4																																											1								1				1	1																											
		1203	1204		44.7	44.4																							80																																																												
L 110+19	10 LT	1204		48.7																																											1								1				1	1																											
		1204	1205		44.4	41.2																							72																																																											
L 109+50	9 LT	1205		48.9																																											1	3.0							1				1	1																											
		1205	1124		40.9	40.3																								64																																																											
Y4 17+49	15 RT	1209		42.6																																											1			1		1																																						
		1209	1210		38.8	38.7																							28																																																												
Y4 17+50	15 LT	1210		42.6																																											1			1			1																																					
		1210	1211		38.5	37.8	0.8			68				X																																																																												
L 112+18	6 LT	1212		47.8																																											1	3.3							1				1	1																											
		1212	1220		39.4	39.2																								92																																																											
L 112+85	52 RT	1213		44.9																																											1			1	1																																									
		1213	1220		41.2	39.4			96					X	X	X																																																																								
L 113+14	9 LT	1214		47.4																																											1	2.7											1	1																											
		1214	1233		39.7	39.6																								52																										1																																				
L 113+60	9 LT	1215		47.2																																											1	2.1							1				1	1																											
		1215	1214		40.1	40.0																							48																																																												
L 114+05	8 RT	1216		46.5																																											1	1.3							1				1	1																											
		1216	1215		40.2	40.1																							52																																																											
L 114+65	51 RT	1217		44.9																																											1			1		1																																						
		1217	1218		40.6	40.4																							44																																																													
L 114+65	8 RT	1218		46.3																																											1	0.8							1				1	1																											
		1218	1216		40.4	40.2																							64																																																											
L 115+50	51 RT	1219		44.6																																											1			1		1																																						
		1219	1217		40.8	40.6																							84																																																												
L 111+86	78 RT	1220		46.1																																											1	2.0																									1				1												
		1220	1210		39.2	38.5	0.4			132				X	X	X																																																																									
L 116+75	52 LT	1221		44.0																																											1			1			1																																					
		1221	1222		41.0	40.8																							68																																																												
L 117+42	52 LT	1222		43.9																																											1			1	1																																									
		1222	1223		40.8	40.5																							108																																																											
L 118+50	52 LT	1223		44.2																																											1			1		1																																						
							SHEET TOTALS		120	328																			944	756																		22	22.9		11	3	6	2		9				9	9											2				2												

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