M60TICIVIL122

COMPUTED BY: MAT DATE: 4/30/2018

CHECKED BY: DCM DATE: 4/30/2018

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
U-5114	3D-1

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 %	HDPE PIPE 30	HDPE PIPE	C. S. PIPE 12 (.064)	C. S. PIPE 15 (.064)	C. S. PIPE 18 (.064)	R. C. PIPE CLASS III 12	R. C. PIPE CLASS III 15	R. C. PIPE CLASS III 18	R. C. PIPE CLASS III 24	R. C. PIPE CLASS III 30	R. C. PIPE CLASS III 36	R. C. PIPE CLASS III 42	R. C. PIPE CLASS III 48	R. C. PIPE CLASS III 48	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 36	R. C. PIPE CLASS IV 42	R. C. PIPE CLASS IV 48	R. C. PIPE CLASS IV	R. C. PIPE CLASS V 12	R. C. PIPE CLASS V 15	R. C. PIPE CLASS V 30	R. C. PIPE CLASS V 36	R. C. PIPE CLASS V 42	R. C. PIPE CLASS V 48	R. C. PIPE CLASS V
L 26+11	82 RT	0501																																			
L 26+27	81 RT	0502		712.8																																	
		0502	0501		705.1	705.0	0.4									16																					
L 26+42	51 RT	0503		720.6																																	
		0503	0511		717.4	717.2																										68					
L 26+46	80 RT	0505		718.6																																	
		0505	0502		709.1	708.3	0.4									20																					
L 26+52	24 LT	0504		721.4																																	
L 26+74	35 LT	0507		722.2																																	
		0504	0507		718.4	718.3																										24					
L 26+78	35 RT																																				
L 26+86	2 LT	0508		722.5																																	
		0508	0507		718.7	718.3																	36														
L 26+87	58 LT	0509		721.6																																	
		0507	0509		718.3	718.2																										28					
L 27+11	51 RT	0511		722.0																																	
		0511	0512		717.2	717.1	0.3									20																					
		0513	0509		718.8	718.2																										24					
L 27+11	74 RT	0512																																			
L 27+14	60 LT	0513		722.7																																	
L 27+22	27 RT																																				
L 27+43	38 LT																																				
L 27+51	48 LT	0515		723.5																																	
L 27+57	33 LT	0516		723.1																																	
		0516	0515		719.4	718.7								16																							
L 27+66	33 LT	0517		723.3																																	
		0517	0516		719.6	719.4																	8														
L 28+67	51 RT	0518		725.5																																	
		0518	0511		721.0	717.2																			156												
Y1 11+35	23 RT	0519		729.0																																	
L 29+87	49 LT	0521		729.9																																	
L 30+35	51 LT	0522		731.4																																	
Y1 13+41	32 LT	0523		729.5																																	
Y1 14+04	33 LT	0523A		728.0																																	
Y1 13+40	61 LT	0525		729.4																																	
		0525	0523		725.1	723.4										28																					
L 30+36	51 LT																																				
L 30+36	51 LT																																				
L 30+36	51 LT																																				
L 30+66	95 LT																																				
L 30+76	32 RT																																				
L 30+77	14 RT	0526		732.9																																	
		0526	0527		730.0	729.8																										40					
L 30+78	57 RT	0527		732.5																																	
		0527	0518		728.4	721.5	1.1																	208													
L 30+79	33 LT	0528		732.4																																	
		0528	0522		726.9	724.1	0.8																				48										
L 30+79	60 LT	0529		733.9																																	
		0529	0528		729.3	728.4	0.4								28																						
L 31+72	33 LT	0531		735.2																																	
SHEET TOTALS														16	28	84							44	208	156		48					184					

LINE & STATION	STRUCTURE FROM	STRUCTURE 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	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. (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	M.H. STD. 840.51, STD. 840.52, OR STD. 840.53	M.H. FRAME AND COVER STD. 840.54		CONVERT EXISTING D.I. TO C.B.	15" PIPE END SECTION	CONVERT EXISTING C.B. TO T.B.J.B.	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.	15" C.S. ELBOW	18" C.S. ELBOW	24" C.S. ELBOW	30" C.S. ELBOW	PREFORMED SCOUR HOLE (PER EACH)	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
L 26+11	0501																																																						
L 26+27	0502					1	2.7																											1	1																					
	0502	0501																																																					
L 26+42	0503					1			1			1																																											
	0503	0511																																																					
L 26+46	0505					1	4.5									1																																						
	0505	0502																																																					
L 26+52	0504					1			1		1																																												
L 26+74	0507					1																								1					1																					
	0504	0507																																																					
L 26+78																																																			12				
L 26+86	0508					1								1				1	1																																				
	0508	0507																																																					
L 26+87	0509					1			1		1																																												
	0507	0509																																																					
L 27+11	0511					1			1			1																																											
	0511	0512																																																					
	0513	0509																																																					
L 27+11	0512																																																	1					
L 27+14	0513					1			1	1																																													
L 27+22																																																			97				
L 27+43																																																						14	
L 27+51	0515					1	2.5											1	1																																				SPECIAL STRUCTURE
L 27+57	0516					1			1		1																																												
	0516	0515																																																					
L 27+66	0517					1			1		1																																												
	0517	0516																																																					
L 28+67	0518					1			1			1																																											
	0518	0511																																																					
Y1 11+35	0519					1			1		1																																												
L 29+87	0521					1	2.9																									1			1																				
L 30+35	0522					1	3.2																									1			1																				
Y1 13+41	0523					1	1.7		1			1																																											
Y1 14+04	0523A																																											1												
Y1 13+40	0525					1			1	1																																													
	0525	0523																																																					
L 30+36																																																					77	
L 30+36																																																					31	
L 30+36																																																					31	
L 30+66																																																					33	
L 30+76																																																					8	
L 30+77	0526					1								1				1	1																																				
	0526	0527																																																					
L 30+78	0527					1			1			1																																											
	0527	0518																																																					
L 30+79	0528					1	0.5		1		1																																												
	0528	0522																																																					
L 30+79	0529					1												1	1																																				
	0529	0528																																																					
L 31+72	0531					1	0.5		1		1																																												
SHEET TOTALS						23	18.5		14	2	7	5		2		1		4	4											1		2		1	4									1						1	109			194	

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