RD261645

COMPUTED BY:	Ray Lovinggood	DATE:	01/09/15
CHECKED BY:	Piotr Stojda	DATE:	01/13/15

PROJECT NO.	SHEET NO.
U-3338B	3D-10

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	OFFSET		STRUCTURE NUMBER FROM	TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %	Drainage 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
L 83+89	54	RT	1704		32.8																
			1704	1708		29.1	28.3														
Y12 11+31	18	LT	1705		31.7																
			1705	1706		29.1	29.0														
L 85+61	65	RT	1707		32.8																
			1707	1708		31.0	30.9		16									X			
L 85+59	48	RT	1708		32.0																
			1708	1802		27.8	27.4														
L 82+50	53	LT	1709		33.6																
			1709	1711		29.8	28.5														
L 84+10	70	LT	1710		31.7																
			1710	1711		29.7	29.6		16									X			
L 84+10	53	LT	1711		32.7																
			1711	1712		28.5	27.3														
L 86+20	53	LT	1712		31.6																
			1712	1808		27.3	27.0														
L 86+77	58	RT	1801		30.2																
			1801	1802		28.0	27.9			20								X			
L 86+77	38	RT	1802		31.8																
			1802	1804		27.4	26.8														
L 88+60	53	RT	1803		29.9																
			1803	1804		26.9	26.8			20								X			
L 88+70	34	RT	1804		31.1																
			1804	1809		26.8	26.6														
L 90+89	30	RT	1807		30.2																
L 87+80	39	LT	1808		31.2																
			1808	1809		27.0	26.6														
L 88+70	37	LT	1809		31.0																
			1809	1811		26.6	25.4	0.3													
L 91+26	48	LT	1810		28.0																
			1810	1811		25.8	25.8				12							X			
L 91+26	35	LT	1811		30.0																
			1811	1812		25.4	25.0	0.4													
L 91+98	34	LT	1812		29.7																
			1812	1913		25.0	24.4	0.4													
L 93+09	30	RT	1904		28.5																
			1904	1903		25.4	25.4				16							X			
L 96+47	6	LT	1910		28.6																
L 93+35	6	LT	1912		29.8																
			1912	1913		26.9	26.8														
L 93+38	35	LT	1913		29.0																
			1913	1915		24.4	23.9	0.5													
L 94+34	49	LT	1914		27.5																
			1914	1915		25.2	25.2			16								X			
L 94+34	35	LT	1915		28.6																
			1915	1916		23.9	23.8	0.5													
L 94+58	35	LT	1916		28.6																
			1916	1918		23.8	23.6	0.5													
L 94+93	34	LT	1918		28.4																
			1918	1920		23.6	23.1	0.5													
								SHEET TOTALS	32	56	28										

STRUCTURE (FROM – TO)	C. A. A. PIPE 12 .064	15 .064	18 .064	24 .064		30 .079			36 .079			42 .109	48 .109	R. C. PIPE CLASS III 12	15	18	R. C. PIPE CLASS IV 12	15	18	R. C. PIPE CLASS V 12	15	18	24	30	36	42	48	
1704																												
1704 – 1708																							168					
1705																												
1705 – 1706																					52							
1707																												
1707 – 1708																												
1708																												
1708 – 1802																								116				
1709																												
1709 – 1711																							160					
1710																												
1710 – 1711																												
1711																												
1711 – 1712																								208				
1712																												
1712 – 1808																								160				
1801																												
1801 – 1802																												
1802																												
1802 – 1804																								192				
1803																												
1803 – 1804																												
1804																												
1804 – 1809																								68				
1807																												
1808																												
1808 – 1809																								88				
1809																												
1809 – 1811																								256				
1810																												
1810 – 1811																												
1811																												
1811 – 1812																								72				
1812																												
1812 – 1913																								140				
1904																												
1904 – 1903																												
1910																												
1912																												
1912 – 1913																				28								
1913																												
1913 – 1915																								96				
1914																												
1914 – 1915																												
1915																												
1915 – 1916																								24				
1916																												
1916 – 1918																								36				
1918																												
1918 – 1920																								112				
SHEET TOTALS																				28	52		328	1568				

STATION / STRUCTURE	15" DUCTILE IRON PIPE	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) 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	SPECIAL JUNCTION BOX., SEE SHEET 2C-7	SPECIAL CATCH BASIN, SHEET 2C-1 OR 2C-6	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. (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	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 EXSITING J.B. TO 2GI	ADJUST M.H.	ADJUST C.B.	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 83+89 / 1704			1			1		1																													
1704 – 1708																																					
Y12 11+31 / 1705			1			1			1																												
1705 – 1706																																					
L 85+61 / 1707			1												1	1																					
1707 – 1708																																					
L 85+59 / 1708			1			1		1																													
1708 – 1802																																					
L 82+50 / 1709			1			1			1																												
1709 – 1711																																					
L 84+10 / 1710			1												1	1																					
1710 – 1711																																					
L 84+10 / 1711			1			1			1																												
1711 – 1712																																					
L 86+20 / 1712			1			1			1																												
1712 – 1808																																					
L 86+77 / 1801			1												1	1																					
1801 – 1802																																					
L 86+77 / 1802			1																			1					1										
1802 – 1804																																					
L 88+60 / 1803			1												1	1																					
1803 – 1804																																					
L 88+70 / 1804			1			1		1																													
1804 – 1809																																					
L 90+89 / 1807																																1					
L 87+80 / 1808			1			1			1																												
1808 – 1809																																					
L 88+70 / 1809			1			1			1																												
1809 – 1811																																					
L 91+26 / 1810			1																1	1																	
1810 – 1811																																					
L 91+26 / 1811			1			1			1																												
1811 – 1812																																					
L 91+98 / 1812			1			1			1																												
1812 – 1913																																					
L 93+09 / 1904			1			1		1																													
1904 – 1903																																					
L 96+47 / 1910			1								1											1					1										
L 93+35 / 1912			1								1											1					1										
1912 – 1913																																					
L 93+38 / 1913			1			1			1																												
1913 – 1915																																					
L 94+34 / 1914			1												1	1																					REMOVE EXIST. DI
1914 – 1915																																					
L 94+34 / 1915			1			1			1																												
1915 – 1916																																					
L 94+58 / 1916			1			1			1																												
1916 – 1918																																					
L 94+93 / 1918			1			1			1																												
1918 – 1920																																					
SHEET TOTALS			25			16		4	12		2				5	5			1	1		3					3					1					

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