RAL-2TK9470H0P

COMPUTED BY: MKD DATE: 09/13/2021

CHECKED BY: WDY DATE: 09/14/2021

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
U2579-AB	3D-19

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	STRUCTURE NUMBER TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %	Side Drain Pipe (RCP, CSP, CAAP, HDPE, PVC, or PP PIPE) 15	Side Drain Pipe 18	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	DO NOT USE PVC	DO NOT USE PP PIPE	C. S. PIPE 15 (.064)	C. S. PIPE 18 (.064)	C. S. PIPE 24 (.064)	C. S. PIPE 30 (.079)	C. S. PIPE 36 (.079)	C. S. PIPE 42 (.109)	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 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 V 42	24" WELDED STEEL PIPE, IN SOIL(OUT OF SOIL)	30" WELDED STEEL PIPE, IN SOIL (OUT OF SOIL)	42" WELDED STEEL PIPE, IN SOIL (OUT OF SOIL)	48" WELDED STEEL PIPE, IN SOIL (OUT OF SOIL)
		1907	1935		827.9	827.8																		4																	
Y15REV 23+00	1 LT	1908		836.8																																					
		1908	1935		829.3	827.4	0.8																	184																	
Y15REV 23+00	91 RT	1909		832.7																																					
		1909	1936		829.7	829.3																		88																	
Y15FLYCA 29+50	42 LT	1913		852.0																																					
		1913	1912		844.0	843.4	0.4																			60																
Y15FLYCA 29+50	44 RT	1914		850.4																																					
		1914	1913		847.4	845.0																		84																	
Y15FLYCA 37+50	42 LT	1915		872.4																																					
		1915	1950		869.4	858.5	1.2																	392																	
Y15FLYCA 37+50	30 RT	1916		877.5																																					
		1916	1915		871.2	869.4	0.8																	72																	
Y15RPC 13+63	44 RT	1917		874.5																																					
		1917	1916		871.5	871.2	0.6																	64																	
Y15REV 29+00	2 LT	1918		850.8																																					
		1918	1938		846.8	846.8																		4																	
Y15REV 29+00	72 RT	1919		849.7																																					
		1919	1920		842.5	834.7	3.3			x			x	x	x			52																							
Y15REV 30+70	72 RT	1921		854.3																																					
		1921	1919		849.8	842.5	0.5																		168																
Y15REV 35+00	72 RT	1922		864.4																																					
		1922	1921		858.9	849.8	0.4																		428																
Y15REV 35+00	2 RT	1923		865.0																																					
		1923	1922		859.3	858.9																			68																
Y15REV 35+00	80 LT	1924		864.2																																					
		1924	1939		860.2	859.8																		76																	
		1925																																							
		1925	1926																															320							
		1928	1927																													308									
Y15RPB 20+47	25 RT	1929		893.0																																					
		1929	1930		890.3	883.9				x			x	x	x	92																									
Y15REV 16+61	3 RT	1932		831.3																																					
Y15REV 21+07	88 LT	1934		832.3																																					
		1934	1933																																						
Y15REV 21+16	1 LT	1935		834.4																																					
		1935	1906		827.4	827.3	1.1																	12																	
Y15REV 23+00	3 RT	1936		838.0																																					
		1936	1908		829.3	829.3																		4																	
Y15REV 22+73	110 LT	1937		835.4																																					
Y15REV 29+00	2 RT	1938		852.0																																					
		1938	1919		846.8	843.0																		68																	
Y15REV 35+00	2 LT	1939		865.0																																					
		1939	1923		859.8	859.8																		4																	
Y15REV 34+55	79 LT	1940		864.4																																					
		1940	1924		860.7	860.4																	44																		
Y15REV 28+02	72 RT	1941		847.4																																					
		1941	1919		843.7	843.2																	96																		
Y15FLYCA 33+50	45 LT	1950		861.8																																					
		1950	1913		858.0	844.5	0.5																		400																
SHEET TOTALS																92		52					140	1056	1064	60						308		320							

STRUCTURE NUMBER FROM	STRUCTURE NUMBER TO	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 D.I. STD. 852.04 OR STD. 852.06	OPEN THROAT C.B. STD. 840.04 OR STD. 840.05	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/ 2 GRA. STD. 840.20	G.D.I. (W.S. SAG) FRAME W/ GRA. STD. 840.22	G.D.I. (W.S. SAG) FRAME W/ 2 GRA. STD. 840.22	G.D.I. (N.S. SAG) FRAME W/ GRATE STD. 840.24	G.D.I. (N.S. SAG) FRAME W/ 2 GRA. STD. 840.24	J.B. STD. 840.31 OR STD. 840.32	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	PIPE CLEANOUT (PER EACH)	M.H. FRAME AND COVER STD. 840.54	CONVERT EXISTING C.B. TO J.B.	CONVERT EXISTING C.B. TO D.I.	CONVERT EXISTING D.I. TO J.B.	ADJUST D.I.	15" C.S. ELBOW	18" C.S. ELBOW	24" C.S. ELBOW	30" C.S. ELBOW	36" C.S. ELBOW	42" C.S. ELBOW	BERM DITCH OUTLET STD. 850.10 (PER EACH)	##" SLUICE GATE (42" SIZE SLUICE GATE)	TRASH RACK	PREFORMED SCOUR HOLE (PER EACH)		FLOWABLE FILL CY	CONCRETE COLLARS CL. "B" STD. 840.72 CY	PIPE REMOVAL LIN. FT.	REMARKS
1907	1935																																													
1908			1	2.6																						1	1																					
1908	1935																																													
1909			1													1				1																												
1909	1936																																													
1913			1	3.0												1				1																												
1913	1912																																													
1914			1													1				1																												
1914	1913																																													
1915			1													1				1																												
1915	1950																																													
1916			1	1.3												1				1																												
1916	1915																																													
1917			1													1				1																												
1917	1916																																													
1918			1													1		1																													
1918	1938																																													
1919			1	2.2												1		1																													
1919	1920																																	2											
1921			1													1		1																													
1921	1919																																													
1922			1	0.5												1		1																													
1922	1921																																													
1923			1	0.8												1		1																													
1923	1922																																													
1924			1													1		1																													
1924	1939																																													
1925		3.400																																												HEADWALL
1925	1926																																													
1928	1927																																													
1929			1													1		1																													
1929	1930																															2													
1932			1	1.3																						1	1																					
1934			1	1.0																									1			1															
1934	1933																																													RETAIN EXISTING PIPE
1935			1	2.0																						1	1																					
1935	1906																																													
1936			1	3.7																						1	1																					
1936	1908																																													
1937			1													1				1																												
1938			1	0.2												1		1																													
1938	1919																																													
1939			1	0.2												1		1																													
1939	1923																																													
1940			1													1		1																													
1940	1924																																													
1941			1													1		1																													
1941	1919																																													
1950			1													1				1																												
1950	1913																																													
SHEET TOTALS		3.400	24	18.8											19		11		8					4	4		1			1		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