RD278015

COMPUTED BY: E. Douglas DATE: 8-28-13

CHECKED BY: J. Braxton DATE: 9-6-13

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
W-5316	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 %	Side Drain Pipe 12	Side Drain Pipe 15	Side Drain Pipe 18	Side Drain Pipe 24	Side Drain Pipe 30	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	DO NOT USE PVC	R. C. PIPE CLASS III 12	III 15	III 18	III 24	III 30	III 36	III 42	III 48	R. C. PIPE CLASS IV 12	IV 15	IV 18	IV 24	IV 30	IV 36	IV 42	R. C. PIPE CLASS V 12	V 15	V 18	V 24	V 30	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	24" SIDE DRAIN PIPE	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. TYPE "D" STD. 840.19 OR STD. 840.28	G.D.I. (W.S. FLAT) FRAME WITH 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/ 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	T.B.D.I. FOR STEEL GRATES STD. 840.36	STEEL FRAME WITH TWO GRATES STD. 840.37	TEMP STEEL PLATE COVER MASONRY DRAINAGE	##" SPRING BOX PIPE	SPRING BOX STD. 840.41		M.H. STD. 840.51, STD. 840.52, OR STD. 840.53	M.H. FRAME AND COVER STD. 840.54	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
		0401	0402		803.5	803.3												52																																																																				
Y2 13+02	27 RT	0401		805.2																																								1																								1						1														
		0403	0404		804.7	803.5				12			X																																																																								
L16+50	43 RT	0404		806.5																																								1															1							1																					
		0404	0405		803.5	802.0	0.7													48																																																																
L16+00	34 RT	0405		805.0																																								1															1							1																					
		0405	0406		802.0	801.0	0.7													100																																																															
L15+00	34 RT	0406		804.0																																								1															1							1																					
		0406	0407		801.0	800.4	0.9													60																																																															
L14+40	34 RT	0407		803.6																																								1															1							1																					
		0407	0408		800.0	799.8	1.0																						96																																																										
L13+43	34 RT	0408		802.5																																								1																1						1																					
		0408	0411		799.8	799.5																							76																																																											
		0412	0413		806.9	805.7													40																																																																42	
Y1 11+50	22 LT	0413		808.4																																								1																								1						1														
		0413	0414		805.4	805.2														52																																																																
		0415	0416		806.0	804.2														52																																																															
L17+50	39 RT	0416		807.2																																								1																								1						1														
		0416	0404		804.2	803.5	0.4													96																																																																
L11+05	34 RT	0419																	20																																																																17	
L12+26	34 RT	0421																	20																																																																41	
L12+18	32 LT	0424																	40																																																																36	
L18+97	34 LT	0435																	40																																																																77	
L19+90	34 RT	0437																	20																																																																19	
L20+86	33 RT	0438																	20																																																																16	
L20+65	33 LT	0441																	48																																																																45	
L21+60	32 LT	0442																	36																																																																59	
L21+80	32 RT	0445																	16																																																																16	
L22+13	31 RT	0446																	20																																																																16	
L22+70	30 LT	0449																	24																																																																20	
L23+11	30 RT	0450																	24																																																																	
Y1 12+81	26 LT	0452																	44																																																																40	
Y2 12+67	27 LT	0455																	32																																																																31	
Y2 12+07	26 RT	0458																	24																																																																22	
Y2 11+30	22 RT	0460																	24																																																																20	
L13+42	2 LT																																																																																							54	REMOVE PIPE SYSTEM
L13+88	23 RT																																																																																								93	REMOVE PIPE SYSTEM
L14+57	20 RT																																																																																								40	REMOVE PIPE SYSTEM
L14+94	20 RT																																																																																							32	REMOVE PIPE SYSTEM
L15+37	20 RT																																																																																							48	REMOVE PIPE SYSTEM
L16+04	20 RT																																																																																							85	REMOVE PIPE SYSTEM
L16+75	20 RT																																																																																							56	REMOVE PIPE SYSTEM
L17+04	28 RT																																																																																							16	REMOVE PIPE SYSTEM
L17+60	20 RT																																																																																							112	REMOVE PIPE SYSTEM
SHEET TOTALS										12								52	492	408									172															8																4	1						5		3						3												1053	
PROJECT TOTALS										12								52	492	408									172															8																4	1						5		3						3												1053	

ABBREVIATIONS

C.A.A.	CORRUGATED ALUMINUM 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