RAL-2UA2440BPJ

COMPUTED BY: CGM DATE: 3/06/14

CHECKED BY: JRR DATE:

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
U-2579B	3D-8

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)

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

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 (STATEWIDE TIER) (RCP, CSP, CAAP, HDPE, or PVC) 15	18	24	30	36	42	48	DO NOT USE RCP	C. S. PIPE (SE: SHOP ELONGATED) 15 .064	18 .064	24 .064	30 .064	36 .079	42 .109	R. C. PIPE CLASS III 15	18	24	30	36	42	48	R. C. PIPE CLASS IV 15	18	24	30	42	48	R. C. PIPE CLASS V 24	30	36	8" DIP (DUCTILE IRON PIPE)	42" R.C. PIPE CULVERTS, CONTRACTOR DESIGN	48" R.C. PIPE CULVERTS, CONTRACTOR DESIGN	36" R.C. PIPE CULVERTS, CONTRACTOR DESIGN	18" R.C. PIPE CULVERTS, CONTRACTOR DESIGN	30" WELDED STEEL PIPE, 0.500, TRENCLESS INSTALLATION	36" WELDED STEEL PIPE, 0.500, TRENCLESS INSTALLATION	42" WELDED STEEL PIPE, 0.625, TRENCLESS INSTALLATION	48" WELDED STEEL PIPE, 0.625, TRENCLESS INSTALLATION	ENDWALLS STD. 838.01 OR STD. 838.11 OR 838.80 (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	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. (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/ 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.D.I. STD. 840.36	STEEL GRATE AND FRAME STD. 840.37	SPRING BOX STD. 840.41	M.H. FRAME AND COVER STD. 840.54	CONVERT EXISTING C.B. TO J.B.	CONVERT EXISTING O.T.C.B. TO 2GI	15" SIDE DRAIN PIPE ELBOW	18" SIDE DRAIN PIPE ELBOW	24" SIDE DRAIN PIPE ELBOW	30" SIDE DRAIN PIPE ELBOW	36" SIDE DRAIN PIPE ELBOW	15" C.S. PIPE ELBOW	18" C.S. PIPE ELBOW	24" C.S. PIPE ELBOW	42" C.S. PIPE ELBOW	BERM DITCH OUTLET STD. 850.10	MODIFIED CONC. FLUME	PREFORMED SCOUR HOLE (PER EACH)	ENERGY DISSIPATION BASIN	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
583+99 -L-	LT	148A						36																																																																																			65	
586+40 -L-	LT	148B																												44																																																													
		IN	0149		945.6	945.5																								36																																																															
585+66 -L-	RT	0149		948.5	945.5																																										1													1					1																									21	
		0149	0150		945.5	942.1																								324																																																														
584+91 -L-	LT	0150		945.1	942.1																																										1													1					1																									24	
		0150	OUT		942.1	940.0																								164																																																													
587+00 -L-	CL	0151		978.0	975.3																																										1													1			1																					1								Special Detail, See Sheet 2D-6
		0151	0152		975.3	974.9																							84																																																																
587+00 -L-	RT	0152		977.7	974.9																																										1													1	1																														
		0152	0154		974.9	969.9		296																																																																																		
590+00 -L-	CL	0153		973.0	970.2																																										1													1			1																											
		0153	0154		970.2	969.9																							84																																																																
590+00 -L-	RT	0154		972.6	969.6																																										1													1	1																														
		0154	OUT		969.6	947.5			60						X																																																												2																
593+00 -L-	CL	0155		964.3	961.5																																										1													1			1																											
		0155	0156		961.5	961.2																							84																																																																
593+00 -L-	RT	0156		963.9	961.2																																										1													1	1																														
		0156	OUT		961.2	934.5		68							X																																																												2																	
593+73 -L-	CL	0157			926.6	908.4																																		380						3.400																																																
593+33 -L-|LT|157A|																							|84|																		|3.400|																																																
596+00 -L-	CL	0158		952.6	949.9																																										1													1			1																											
		0158	0159		949.9	949.5																								84																																																															
596+00 -L-	RT	0159		952.3	949.5																																										1													1	1																														
		0159	OUT		949.5	938.0		40							X																																																												2																	
599+00 -L-	CL	0160		940.7	938.0																																										1													1			1																											
		0160	0161		938.0	926.1		300																																																																																				
602+00 -L-	CL	0161		928.8	925.8																																										1													1			1																											
		0161	0452		925.8	925.5																								84																																																															
602+00 -L-	RT	0452		928.5	925.5																																										1													1	1																														
		0452	OUT		925.5	913.4			72						X																																																												2																
600+00 -L-	RT	0451		936.4	933.7																																										1													1	1																														
		0451	OUT		933.7	924.9		56							X																																																												2																	
604+08 -L-|CL|0162|	|906.4|871.7|																															|472|									|3.400|																																															
605+00 -L-	CL	0163		916.7	913.9																																										1													1			1																											
		0163	0453		913.9	913.1		84							X																																																																													
605+00 -L-	RT	0453		915.8	913.1																																										1													1	1																														
		0453	OUT		913.1	909.2		44																																																																																				
607+50 -L-	RT	0454		905.9	903.2																																										1													1	1																														
		0454	OUT		903.2	889.2		84							X																																																												2																	
607+99 -L-	LT	0164		905.1	902.3																																										1													1	1																														
		0164	0167		902.3	890.2		304																																																																																				
611+00 -L-	CL	0166		892.9	889.9																																										1													1			1																											
		0166	0167		889.9	889.5																								120																																																															
SHEET TOTALS								1312	132																	84				252	856							472				380						10.200	19													19	9		8		2								8	4										1						110	