RAL-2UA2440BPJ

COMPUTED BY:	CGM	DATE:	3/06/14
CHECKED BY:	JRR	DATE:	

PROJECT NO.	SHEET NO.
U-2579B	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 %	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
24+00 -Y4RPBD-	LT	0186		871.8	869.1																																
		0186	0187		869.1	868.9																								40								
24+00 -Y4RPBD-	RT	0187		871.8	868.9																																
23+96 -Y4RPBD-	RT	0187	OUT		868.9	825.5		100							X																						
28+00 -Y4RPBD-	RT	187A		883.8	881.1																																
		187A	OUT		881.1	835.5		104							X																						
630+51 -L-	RT	0188			845.0	822.0									X					172																	
630+85 -L-	CL	0189		888.2	885.5																																
		0189	0190		885.5	884.8																84															
630+85 -L-	LT	0190		887.5	884.8																																
		0190	0191		884.8	884.2		184																													
632+65 -L-	LT	0191		892.5	884.0																																
		0191	0193		884.0	883.3			240																												
635+00 -L-	CL	0192		898.9	896.1																																
		0192	0193		896.1	895.9																80															
637+75 -L-	LT	0194		905.7	903.0																																
		0194	0193		903.0	895.9																276															
635+00 -L-	LT	0193		898.8	883.3																																
		0193	OUT		883.3	854.5											244																				
640+35 -L-	RT	196A																																			
		196A	0195		855.0	843.0																															
19+65 -Y4RPA-	LT	195A		879.4	876.7																																
		195A	OUT		876.7	860.2										124																					
22+51 -Y4RPA-	LT	0197		880.6	877.8																																
		0197	OUT		877.8	855.0										168																					
19+50 -Y4LPA-	RT	0198		887.7	884.6																																
		0198	0199		884.6	883.8																72															
18+75 -Y4LPA-	LT	0203		886.6	883.9																																
		0203	0199		883.9	883.8																								52								
18+75 -Y4LPA-	RT	0199		887.3	883.5																																
		0199	0200		883.5	883.0																	164														
17+02 -Y4LPA-	RT	0200		889.2	883.0																																
		0200	0201		883.0	877.6																									64							
17+32 -Y4LPA-	LT	0202		881.0	878.2																																
		0202	0201		878.2	877.9		124																													
17+00 -Y4LPA-	LT	0201		888.2	877.6																																
		0201	OUT		877.6	855.0			260																												
19+00 -Y4LPD-	RT	0204		910.3	908.3																																
		0204	204A		908.3	890.4											72																				
19+00 -Y4LPD-	RT	204A		893.4	890.4																																
		204A	0205		890.4	890.2																									52							
19+00 -Y4LPD-	LT	0205		894.2	890.2																																
		0205	0206		890.2	887.2																	184														
20+95 -Y4LPD-	RT	0207		890.3	887.6																																
		0207	0206		887.6	887.4																								52								
SHEET TOTALS								512	500							292	316			172		512	348							144	116							

LINE & STATION	FROM	TO	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
24+00 -Y4RPBD-	0186												1													1	1				
	0186	0187																													
24+00 -Y4RPBD-	0187												1													1	1				
23+96 -Y4RPBD-	0187	OUT																													
28+00 -Y4RPBD-	187A												1													1	1				
	187A	OUT																													
630+51 -L-	0188											2.800																			
630+85 -L-	0189												1													1			1		
	0189	0190																													
630+85 -L-	0190												1													1			1		
	0190	0191																													
632+65 -L-	0191												1	3.5												1			1		
	0191	0193																													
635+00 -L-	0192												1													1			1		
	0192	0193																													
637+75 -L-	0194												1													1			1		
	0194	0193																													
635+00 -L-	0193												1	5.0	5.5											1			1		
	0193	OUT																													
640+35 -L-	196A											4.500																			
	196A	0195		848																											
19+65 -Y4RPA-	195A												1													1	1				
	195A	OUT																													
22+51 -Y4RPA-	0197												1													1	1				
	0197	OUT																													
19+50 -Y4LPA-	0198												1			1			1												
	0198	0199																													
18+75 -Y4LPA-	0203												1													1			1		
	0203	0199																													
18+75 -Y4LPA-	0199												1			1	1														
	0199	0200																													
17+02 -Y4LPA-	0200												1			1		1													
	0200	0201																													
17+32 -Y4LPA-	0202												1													1			1		
	0202	0201																													
17+00 -Y4LPA-	0201												1	5.0	0.6											1			1		
	0201	OUT																													
19+00 -Y4LPD-	0204																														
	0204	204A																													
19+00 -Y4LPD-	204A												1													1			1		
	204A	0205																													
19+00 -Y4LPD-	0205												1			1			1												
	0205	0206																													
20+95 -Y4LPD-	0207												1													1			1		
	0207	0206																													
SHEET TOTALS				848								7.300	20	13.5	6.1	4	1	1	2							16	5		11		

LINE & STATION	FROM	TO	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
24+00 -Y4RPBD-	0186																										
	0186	0187																									
24+00 -Y4RPBD-	0187																										
23+96 -Y4RPBD-	0187	OUT								2											1						PREFORMED SCOUR HOLE
28+00 -Y4RPBD-	187A																										
	187A	OUT								2											1						PREFORMED SCOUR HOLE
630+51 -L-	0188																									380	(PIPE REMOVAL FOR MOST OF HAMMOND ST)
630+85 -L-	0189																										
	0189	0190																									
630+85 -L-	0190																										
	0190	0191																									
632+65 -L-	0191																										
	0191	0193																									
635+00 -L-	0192																										
	0192	0193																									
637+75 -L-	0194																										
	0194	0193																									
635+00 -L-	0193																										
	0193	OUT														2											
640+35 -L-	196A																										
	196A	0195																									4OTCB
19+65 -Y4RPA-	195A																										
	195A	OUT																									
22+51 -Y4RPA-	0197																										
	0197	OUT													2												
19+50 -Y4LPA-	0198																										
	0198	0199																									
18+75 -Y4LPA-	0203																										
	0203	0199																									
18+75 -Y4LPA-	0199																										
	0199	0200																									
17+02 -Y4LPA-	0200																										
	0200	0201																									
17+32 -Y4LPA-	0202																										
	0202	0201																									
17+00 -Y4LPA-	0201																										
	0201	OUT																									
19+00 -Y4LPD-	0204																		1								BERM DITCH OUTLET
	0204	204A														1											
19+00 -Y4LPD-	204A																										
	204A	0205																									
19+00 -Y4LPD-	0205																										
	0205	0206																									
20+95 -Y4LPD-	0207																										
	0207	0206																									
SHEET TOTALS										4					2	3			1		2					380	

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