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-12

**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 (STATEWIDE TIER) (RCP, CSP, CAAP, HDPE, or PVC) 15	18	24	30	36	42	48	DO NOT USE RCP
22+59 -Y4LPB-	LT	0228		889.6	EX										
16+00 -Y4LPB-	LT	0229		896.2	893.0										
		0229	OUT		893.0	873.5		132							X
42+25 -Y4RPBD-	LT	0230		926.7	924.0										
		0230	0231		924.0	923.9		28							
42+51 -Y4RPBD-	LT	0231		927.3	923.9										
		0231	0232		923.9	880.2		152							X
47+25 -Y4RPBD-	LT	231A		941.4	938.6										
		231A	223A		938.6	881.8		232							X
96+90 -Y4-	RT	0233		885.4	882.7										
		0233	0232		882.7	880.2		104							
20+70 -Y4LPB-	RT	0232		884.2	879.5										
		0232	0235		879.5	879.3									
19+50 -Y4LPB-	LT	0234		887.1	884.0										
		0234	0235		884.0	880.1									
20+70 -Y4LPB-	LT	0235		885.1	879.3										
		0235	0236		879.3	879.0									
21+40 -Y4LPB-	LT	0236		886.2	878.6										
		0236	OUT		878.6	878.4					80				
36+00 -Y4RPBD-	RT	0237		904.6	901.9										
		0237	0238		901.9	901.1		156							
34+31 -Y4RPBD-	RT	0238		903.9	901.1										
		0238	OUT		901.1	889.0									
31+60 -Y5-	LT	0239		934.1	931.3										
		0239	0240		931.3	931.2									
31+60 -Y5-	RT	0240		934.1	931.2										
		0240	0241		931.2	905.3		116							X
31+29 -Y5-	RT	0241		907.8	905.0										
		0241	0242		905.0	901.7		244							
20+50 -Y4RPC-	LT	0242		904.4	901.4										
		0242	0243		901.4	901.2									
20+50 -Y4RPC-	RT	0243		906.5	901.2										
		0243	223A		901.2	881.5									
651+50 -L-	LT	0247		917.0	912.7										
		0247	0248		912.7	912.5									
651+50 -L-	LT	0249		917.7	915.0										
		0249	0248		915.0	914.8		20							
651+50 -L-	LT	0248		919.6	912.0										
		0248	0250		912.0	911.3				160					
SHEET TOTALS								1184		160	80				

LINE & STATION	FROM	TO	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
22+59 -Y4LPB-	0228																							
16+00 -Y4LPB-	0229																							
	0229	OUT																						
42+25 -Y4RPBD-	0230																							
	0230	0231																						
42+51 -Y4RPBD-	0231																							
	0231	0232																						
47+25 -Y4RPBD-	231A																							
	231A	223A																						
96+90 -Y4-	0233																							
	0233	0232																						
20+70 -Y4LPB-	0232																							
	0232	0235																	52						
19+50 -Y4LPB-	0234																							
	0234	0235							116															
20+70 -Y4LPB-	0235																							
	0235	0236																68						
21+40 -Y4LPB-	0236																							
	0236	OUT																						
36+00 -Y4RPBD-	0237																							
	0237	0238																						
34+31 -Y4RPBD-	0238																							
	0238	OUT	112																					
31+60 -Y5-	0239																							
	0239	0240														32								
31+60 -Y5-	0240																							
	0240	0241																						
31+29 -Y5-	0241																							
	0241	0242																						
20+50 -Y4RPC-	0242																							
	0242	0243								76														
20+50 -Y4RPC-	0243																							
	0243	223A																						
651+50 -L-	0247																							
	0247	0248								56														
651+50 -L-	0249																							
	0249	0248																						
651+50 -L-	0248																							
	0248	0250																						
SHEET TOTALS			112						116	132						32		120						

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
22+59 -Y4LPB-	0228																														
16+00 -Y4LPB-	0229												1			1			1												
	0229	OUT																													
42+25 -Y4RPBD-	0230												1													1					1
	0230	0231																													
42+51 -Y4RPBD-	0231												1													1					1
	0231	0232																													
47+25 -Y4RPBD-	231A												1													1					1
	231A	223A																													
96+90 -Y4-	0233												1													1			1		
	0233	0232																													
20+70 -Y4LPB-	0232												1												1			1	1		
	0232	0235																													
19+50 -Y4LPB-	0234												1			1			1												
	0234	0235																													
20+70 -Y4LPB-	0235												1	0.8		1	1														
	0235	0236																													
21+40 -Y4LPB-	0236												1	2.6		1		1													
	0236	OUT																													
36+00 -Y4RPBD-	0237												1													1			1		
	0237	0238																													
34+31 -Y4RPBD-	0238												1													1			1		
	0238	OUT																													
31+60 -Y5-	0239												1													1					1
	0239	0240																													
31+60 -Y5-	0240												1													1					1
	0240	0241																													
31+29 -Y5-	0241												1													1			1		
	0241	0242																													
20+50 -Y4RPC-	0242												1													1			1		
	0242	0243																													
20+50 -Y4RPC-	0243												1	0.3												1			1		
	0243	223A					484																								
651+50 -L-	0247												1													1		1	1		
	0247	0248																													
651+50 -L-	0249												1													1			1		
	0249	0248																													
651+50 -L-	0248												1	2.6																	
	0248	0250																													
SHEET TOTALS							484						19	6.3		4	1	1	2						1	13		2	9		5

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
22+59 -Y4LPB-	0228						1	1																			Special Detail, See Sheet 2D-3
16+00 -Y4LPB-	0229																									351	(PIPE REMOVAL FOR MOST OF RACHEL ST)
	0229	OUT								2																	
42+25 -Y4RPBD-	0230																										
	0230	0231																									
42+51 -Y4RPBD-	0231																										
	0231	0232								2																	
47+25 -Y4RPBD-	231A																										
	231A	223A																									
96+90 -Y4-	0233																										
	0233	0232																									
20+70 -Y4LPB-	0232																										3 GI
	0232	0235																									
19+50 -Y4LPB-	0234																									55	
	0234	0235																									
20+70 -Y4LPB-	0235																										
	0235	0236																									
21+40 -Y4LPB-	0236																									41	
	0236	OUT																									
36+00 -Y4RPBD-	0237																										
	0237	0238																								153	
34+31 -Y4RPBD-	0238																										
	0238	OUT																			1						PREFORMED SCOUR HOLE
31+60 -Y5-	0239																										
	0239	0240																									
31+60 -Y5-	0240																										
	0240	0241								2																	
31+29 -Y5-	0241																										
	0241	0242																									
20+50 -Y4RPC-	0242																										
	0242	0243																									
20+50 -Y4RPC-	0243																										
	0243	223A																									
651+50 -L-	0247																										3 GI
	0247	0248																									
651+50 -L-	0249																										
	0249	0248																									
651+50 -L-	0248		1				1																				
	0248	0250																									
SHEET TOTALS			1				2	1		6											1					600	

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