DL-2KYBDZ1

COMPUTED BY:	BNE	DATE:	9/18/2014
CHECKED BY:	CJT	DATE:	4/22/2015

PROJECT NO.	SHEET NO.
R-2915B	3D-1

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	STRUCTURE NUMBER TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %	Side Drain Pipe (RCP, CSP, CAAP, HDPE, or PVC) 15	18	24	30	36	42	48	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	DO NOT USE PVC
L 160+50	8	RT	0401		2905.7															
			0401	0404		2902.5	2901.1													
L 162+60	42	LT	0402		2904.5															
			0402	0403		2901.7	2901.2													
L 161+00	42	LT	0403		2904.4															
			0403	0404		2901.2	2901.1													
L 161+00	8	RT	0404		2905.5															
			0404	0405		2901.1	2894.1													
L 163+65	12	LT	0406		2904.5															
			0406	0501		2901.8	2901.1													
L 163+25	59	RT	0407		2900.7															
			0407	0505		2898.0	2895.9		216											
L 165+00	12	LT	0501		2905.4															
			0501	0502		2901.1	2891.0													
L 165+00	120	LT	0502		2891.0															
L 165+45	147	RT	0503		2934.0															
			0503	0505		2934.0	2895.1				88					X				
L 167+20	58	RT	0504		2902.2															
			0504	0505		2899.5	2895.9	0.4	156											
L 165+50	61	RT	0505		2899.9															
			0505	0506		2894.6	2894.0													
L 170+50	11	RT	0507		2910.3															
			0507	0508		2907.6	2906.6													
L 170+50	42	LT	0508		2909.3															
			0508	0510		2906.6	2906.3													
L 171+50	12	RT	0509		2911.4															
			0509	0510		2908.7	2906.3													
L 171+50	42	LT	0510		2909.5															
			0510	0511		2906.3	2889.3	1.6	44							X				
L 171+50	86	LT	0511		2889.3															
L 171+50	103	RT	0512		2923.0															
			0512	0513		2923.0	2905.1	0.5			48					X				
L 171+50	59	RT	0513		2909.9															
			0513	0517		2905.1	2904.4				260									
L 175+00	66	RT	0514		2914.4															
			0514	0517		2911.7	2905.6													
Y9 13+32.5	60	RT	0515		2969.5															
			0515	0516		2969.5	2940.9	0.5			60					X				
Y9 13+00	20	RT	0516		2945.7															
			0516	0517		2940.9	2904.4				276									
L 174+00	58	RT	0517		2913.5															
			0517	0518		2904.4	2888.0	1.7												
L 172+44	8	RT	0519		2904.0															
			0519	0520		2902.0	2890.0													
DR2 14+42			0521			2989.5	2986.5			36										
Y9 16+28			0601			2989.0	2965.0	1.1		100						X			X	X
L 178+50	155	RT	0602		2954.0															
			0602	0603		2954.0	2910.6				96					X				
L 178+50	59	RT	0603		2914.1															
			0603	0604		2910.6	2884.5	0.4												
SHEET TOTALS									416	136	828									

LINE & STATION	FROM	TO	C. S. PIPE (SE: SHOP ELONGATED) 12 (.064)	15 (.064)	18 (.064)	24 (.064)	30 (.079)	36 (.079)	42 (.109)	48 (.109)	R. C. PIPE CLASS III 12	15	18	24	30	36	42	48	R. C. PIPE CLASS IV 12	15	18	24	30	36	42	48	30" WELDED STEEL PIPE 0.469" THICK, GRADE B IN SOIL	30" WELDED STEEL PIPE 0.469" THICK, GRADE B NOT IN SOIL	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	
L 160+50	0401																															1							
	0401	0404																		48																			
L 162+60	0402																															1							
	0402	0403																		156																			
L 161+00	0403																															1							
	0403	0404																		52																			
L 161+00	0404																															1							
	0404	0405																		84																			
L 163+65	0406																															1							
	0406	0501																		132																			
L 163+25	0407																															1							
	0407	0505																																					
L 165+00	0501																															1							
	0501	0502																		112																			
L 165+00	0502																																						
L 165+45	0503																																						
	0503	0505																																					
L 167+20	0504																															1							
	0504	0505																																					
L 165+50	0505																															1	0.3						
	0505	0506																										72	72											
L 170+50	0507																															1							
	0507	0508																		52																			
L 170+50	0508																															1							
	0508	0510																		96																			
L 171+50	0509																															1							
	0509	0510																		52																			
L 171+50	0510																															1							
	0510	0511																																					
L 171+50	0511																																						
L 171+50	0512																																						
	0512	0513																																					
L 171+50	0513																															1							
	0513	0517																																					
L 175+00	0514																															1							
	0514	0517										104																											
Y9 13+32.5	0515																																						
	0515	0516																																					
Y9 13+00	0516																															1							
	0516	0517																																					
L 174+00	0517																															1	4.1						
	0517	0518																										70	70											
L 172+44	0519																															1							
	0519	0520									88																												
DR2 14+42	0521																																						
Y9 16+28	0601																																						
L 178+50	0602																																						
	0602	0603																																					
L 178+50	0603																															1							
	0603	0604				152																																	
SHEET TOTALS						152					88	104								784							142	142				19	4.4						

LINE & STATION	FROM	TO	CONCRETE TRANSITIONAL SECTION D.I. STD. 852.04 OR STD. 852.06	C.B. STD. 852.05	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	T.B.D.I. STD. 840.35	SPRING BOX STD. 840.41	SPECIAL EXTRA DEPTH 36" JUNCTION BOX	TRAFFIC BEARING JUNCTION BOX 840.34	M.H. FRAME AND COVER STD. 840.54	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	BERM DITCH OUTLET STD. 850.10	BERM DITCH OUTLET STD. 850.11	BERM DITCH OUTLET FOR 36" PIPE, SEE SHT.2C-5	PREFORMED SCOUR HOLE (PER EACH)	FLOWABLE FILL CY	PIPE COLLAR STD. 840.72 CY	PIPE REMOVAL LIN. FT.	REMARKS
L 160+50	0401		1		1	1																								
	0401	0404																												
L 162+60	0402							1	1																					
	0402	0403																												
L 161+00	0403							1	1																					
	0403	0404																												
L 161+00	0404		1		1	1																								
	0404	0405																											30	REM. EX. 12" CMP (LOCATED ON -DR1-)
L 163+65	0406								1				1																	
	0406	0501																												
L 163+25	0407							1			1																			
	0407	0505																												
L 165+00	0501								1				1																	
	0501	0502																												
L 165+00	0502																									1				
L 165+45	0503																							1						
	0503	0505																		1									112	REM. EX. 12" RCP
L 167+20	0504							1			1																			
	0504	0505																												
L 165+50	0505						1			1	1																			
	0505	0506																											69	REM. EX. 24" RCP, EX. 18" RCP
L 170+50	0507								1				1																	
	0507	0508																												
L 170+50	0508							1	1																					
	0508	0510																												
L 171+50	0509								1				1																	
	0509	0510																												
L 171+50	0510							1	1																					
	0510	0511																2												
L 171+50	0511																									1				
L 171+50	0512																							1						
	0512	0513																		1										
L 171+50	0513						1				1																			
	0513	0517																												
L 175+00	0514							1			1																		49	REM. EX. 18" CMP
	0514	0517																											180	REM. EX. 24" RCMP, 15"CMP
Y9 13+32.5	0515																							1						
	0515	0516																		1										
Y9 13+00	0516						1					1																		
	0516	0517																												
L 174+00	0517						1				1																			
	0517	0518																											117	REM. EX. 24" RCP, EX. 18" CMP
L 172+44	0519													1																
	0519	0520																											134	REM. EX. 30" RCP, 24" RCP, DI
DR2 14+42	0521																												20	REM. EX. 12" CMP
Y9 16+28	0601																												109	REM. TWO EX. 18" CMPs
L 178+50	0602																							1						
	0602	0603																		1										
L 178+50	0603							1			1																			
	0603	0604																												
SHEET TOTALS			2		2	2	4	8	8	1	7	1	4	1				2		4				4		2			820	

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