DL-2KYBDZ1

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

PROJECT NO.	SHEET NO.
R-2915B	3D-5

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)

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

Part 1 (Size / Thickness or Gauge: Side Drain Pipe (RCP, CSP, CAAP, HDPE, or PVC))

LINE & STATION	OFFSET		STRUCTURE NUMBER FROM	STRUCTURE NUMBER TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %	Side Drain Pipe 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 247+00	42	LT	1108		2881.0															
			1108	1109		2870.2	2858.0	1.4	60							X				
DET 252+86	64	LT	1110		2911.3															
			1110	1111		2908.5	2908.2													
DET 253+06	5	LT	1111		2915.9															
			1111	1112		2907.5	2902.5	0.4												
DET 252+25	73	RT	1112		2907.2															
			1112	1113		2902.0	2860.0	0.8				232				X				
DET 256+87	45	LT	1201		2943.4															
			1201	1203		2940.7	2940.3													
			1202	1203		2940.0	2939.5				20									
DET 256+45	24	RT	1203		2943.3															
			1203	1111		2939.5	2912.1													
Y13A 12+35	17	RT	1204							56										
DR5 10+23			1205						28											
L 158+88		LT																		
L 164+15		LT																		
L 174+52		LT																		
L 200+75		LT																		
L 222+24		LT																		
L 229+75		LT																		
L 170+24		CL																		
L 200+76		CL																		
L 222+26		CL																		
L 229+74		CL																		
SHEET TOTALS									88	56	20	232								
PROJECT TOTALS									1336	740	1104	232	24							

Part 2 (C. S. PIPE (SE: SHOP ELONGATED); R. C. PIPE CLASS III; R. C. PIPE CLASS IV; QUANTITIES FOR DRAINAGE STRUCTURES — NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B))

LINE & STATION	FROM	TO	C.S. 12 (.064)	C.S. 15 (.064)	C.S. 18 (.064)	C.S. 24 (.064)	C.S. 30 (.079)	C.S. 36 (.079)	C.S. 42 (.109)	C.S. 48 (.109)	R.C. III 12	15	18	24	30	36	42	48	R.C. 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	0' THRU 5' EACH	A 5' THRU 10' LIN. FT.	B 10' AND ABOVE LIN. FT.
L 247+00	1108																															1	5.0	0.8
	1108	1109																																
DET 252+86	1110																															1		
	1110	1111										60																						
DET 253+06	1111																															1	3.4	
	1111	1112												112																				
DET 252+25	1112																															1	0.3	
	1112	1113																																
DET 256+87	1201																															1		
	1201	1203																		80														
	1202	1203																																
DET 256+45	1203																															1		
	1203	1111																				340												
Y13A 12+35	1204																																	
DR5 10+23	1205																																	
L 158+88					24																													
L 164+15					24																													
L 174+52					52																													
L 200+75					52																													
L 222+24					52																													
L 229+75					52																													
L 170+24					32																													
L 200+76					48																													
L 222+26					48																													
L 229+74					52																													
SHEET TOTALS					436							60		112						80		340										6	8.7	0.8
PROJECT TOTALS				300	436	152					88	384	176	296		344				3856		536		28			142	142				88	36.2	

Part 3 (FRAME, GRATES, AND HOOD STD. 840.03 — GRATE TYPE; CONCRETE TRANSITIONAL SECTION)

LINE & STATION	FROM	TO	C.B. STD. 840.01 OR STD. 840.02	E	F	G		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 247+00	1108												1	1																					
	1108	1109																					2												
DET 252+86	1110												1			1																			
	1110	1111																																81	REM. EX. 66" RCP, 12" CMP, DI
DET 253+06	1111																				1														T.B.J.B. WITH SLAB LID
	1111	1112																																	
DET 252+25	1112											1				1																			
	1112	1113																								2								105	REM. EX. 18" CMP, 15" CMP, 10" CMP
DET 256+87	1201												1			1																			
	1201	1203																																	
	1202	1203																																	
DET 256+45	1203																				1														T.B.J.B. WITH SLAB LID
	1203	1111																																60	REM. EX. 18" CMP
Y13A 12+35	1204																																	51	REM. EX. 18" CMP
DR5 10+23	1205																																	34	REM. EX. 15" CMP
L 158+88																																		24	TEMPORARY PIPE FOR TMP
L 164+15																																		24	TEMPORARY PIPE FOR TMP
L 174+52																																		52	TEMPORARY PIPE FOR TMP
L 200+75																																		52	TEMPORARY PIPE FOR TMP
L 222+24																																		52	TEMPORARY PIPE FOR TMP
L 229+75																																		52	TEMPORARY PIPE FOR TMP
L 170+24																																		32	TEMPORARY PIPE FOR TMP
L 200+76																																		48	TEMPORARY PIPE FOR TMP
L 222+26																																		48	TEMPORARY PIPE FOR TMP
L 229+74																																		52	TEMPORARY PIPE FOR TMP
																																67		80	SHEET TOTALS FROM 3D-6
SHEET TOTALS												1	3	1		3					2		2			2						67		847	
PROJECT TOTALS								11		11	11	7	48	44	1	21	8	18	1	1	2	1	18	5	6	2	1	1	6	1	12	77	0.764	2722	