RA-1475

COMPUTED BY:	T. Huffman	DATE:	11/06/14
CHECKED BY:	D. Gardner	DATE:	1/23/15

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
R-2514B	3D-2

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		TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	MINIMUM REQUIRED SLOPE	Side Drain Pipe (RCP, CSP, CAAP, HDPE, or PVC)								DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	DO NOT USE PVC	C. A. A. PIPE								R. C. PIPE CLASS III								R. C. PIPE CLASS IV								R. C. PIPE CLASS V								18" CAAP	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE)	REINFORCED ENDWALLS	DRAINAGE STRUCTURE MASONRY	QUANTITIES FOR DRAINAGE STRUCTURES (NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B)) 0' THRU 5'	5' THRU 10' (A)	10' AND ABOVE (B)	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	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. TYPE "D" STD. 840.19 OR STD. 840.28	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	SPECIAL JB (SEE SPEACIAL DETAIL 2C-3) R-2514C	15" SIDE DRAIN PIPE ELBOW	18" CAAP PIPE ELBOW	JB STD. 840.31 or 840.32	G.D.I. (N.S. FLAT) FRAME W/ 2 GRATES STD. 840.29	CONCRETE COLLARS CL. "B" STD. 840.72	PIPE REMOVAL	REMARKS
SIZE		FROM	TO	FT.	FT.	FT.	%	12	15	18	24	30	36	42	48						12	15	18	24	30	36	42	48	12	15	18	24	30	36	42	48	12	15	18	24	30	36	42	48	12	15	18	24	30	36	42	48		CY	CY	CY	EACH	LIN. FT.	LIN. FT.																			CY	LIN. FT.	
THICKNESS OR GAUGE																					.064	.064	.064	.064	.079	.079	.109	.109																																																					
L 85+43	54 LT																																																																															28	REMOVE 18" RCP
L 91+13	0 CL	0903		44.2																																																					1													1			1								2GI-D
		0903	0904		42.2	41.3																																76																																												
Y2A 41+77	24 LT	0905	0906		37.4	37.1	0.5																																52																																											
L 98+00	0 CL	1001		35.4																																																					1												1				1								
		1001	1002		32.6	29.0																																88																																												
L 101+91	0 CL	1003		31.2																																																				1											1				1	1								3GI
		1003	1004		28.2	27.2	0.6																																80																																											
L 100+50	59 RT	1009		33.8																																																					1												1		1										
		1009	1010		30.7	26.8			32																																																																		2						
L 101+03	59 RT	1011		33.4																																																					1												1		1										
		1011	1012		30.2	26.1			32																																																																		2						
L 113+45	0 CL	1101		33.6																																																					1													1			1								2GI-D
		1101	1102		31.6	30.6																																80																																												
L 119+38	0 CL	1103		30.9																																																					1												1				1								
		1103	1104		28.1	26.6	0.4																															92																																												
		1105	1106		52.2	38.6			60																																																																		2						
Y2 23+72	15 RT	1105		55.3																																																					1												1									1			
Y2 23+48	26 RT																																																																															24	REMOVE 15" RCP
Y2 25+58	26 RT																																																																															28	REMOVE 15" RCP
L 110+43	80 LT	1107		33.5																																																		6.000																										HW for 48" PIPE
		1107	1108		29.0	25.9	0.4																																					164																																									
Y2C 10+90	47 RT	1109	1110		25.6	25.5																																		112																																										
Y2 27+57	19 RT																																																																															28	REMOVE 18" HDPE
Y2D 10+69	20 LT	1111	1112		30.9	29.0																																	56																																										
Y2C 11+64	30 RT	1113							28																																																																										
Y2C 12+40	7 LT																																																																															24	REMOVE 8" HDPE
Y2C 12+41	7 LT																																																																															24	REMOVE 8" HDPE
Y2C 13+17	36 RT	1114							24																																																																										
L 110+65	59 RT	1115		36.9																																																					1												1		1										
		1115	1116		33.7	26.0			40																																																																			2						
L 108+13	59 RT	1117		37.1																																																					1												1		1										
		1117	1118		33.9	32.0			24																																																																										
Y2A 20+61	34 RT	1119		37.3																																																		6.000																										HW for 48" PIPE
		1119	1120		30.3	29.5																																						80																																									
L 126+00	0 CL	1201		27.9																																																					1												1				1								
		1201	1202		25.1	23.4																																88																																												
L 128+88	59 LT																																																																															28	REMOVE 15" RCP
L 131+57	91 RT																																																																															24	REMOVE 15" HDPE
L 133+00	0 CL	1203		24.7																																																					1												1				1								
		1203	1204		21.9	19.8																																88																																												
Y2D 20+06	24 RT	1205	1206		34.8	25.0																																		100																																										
L 139+96	86 RT	1301		20.8																																																		6.000																										HW for 48" PIPE
		1301	1302		16.4	16.0																																						188																																									
L 140+35	0 CL	1303		21.6																																																						1											1				1	1								3GI
		1303	1304		18.9	16.8	0.8																															88																																												
L 144+68	59 RT	1305		25.6																																																					1												1		1										
		1305	1306		22.4	21.9																																180																																												
L 146+45	58 RT	1306		26.6																																																					1												1		1										
SHEET TOTALS									240																													780	188	212				432										18.000			15											2	11	2	6	2	8		8			1		208	

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