D083340

COMPUTED BY: DLS DATE: 5/10/15

CHECKED BY: EK DATE: 5/10/15

PROJECT NO.	SHEET NO.
U-3315	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)

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 %	DIP PIPE SEALED PIPE SYSTEM SEE SPECIAL PROVISIONS 16 (CLASS 250)	DIP 18 (CLASS 250)	DIP 24 (CLASS 250)	DIP 30 (CLASS 150)	DIP 36 (CLASS 150)	DIP 42 (CLASS 150)	DIP 48 (CLASS 150)	SEALED DRAINAGE STRUCTURE MASONRY CY	QUANTITIES FOR SEALED 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.	SEALED STRUCTURE WITH BOOTS	R. C. PIPE CLASS III 15	III 18	III 24	III 30	III 36	III 42	III 48	R. C. PIPE CLASS IV 15	IV 18	IV 24	IV 30	IV 36	IV 42	IV 48	R. C. PIPE CLASS V 42	V 48 UNDER RR	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	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 WITH GRATE STD. 840.20	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/ GRATE STD. 840.24	G.D.I. (N.S. SAG) FRAME W/ 2 GRATES STD. 840.24	G.D.I. (N.S. FLAT) FRAME W/ GRATE STD. 840.29	G.D.I. (N.S. FLAT) FRAME W/ 2 GRATES STD. 840.29	DRIVEWAY D.I. STD. 840.30	FRAME W/ GRATE FOR DRIVEWAY STD. 840.30	J.B. STD. 840.31 OR STD. 840.32	ANGLED VANE GRATES AND FRAMES STD. 840.33	T.B.J.B. STD. 840.34 OR SEE REMARKS	T.B.D.I. STD. 840.35	T.B.D.I. FOR STEEL GRATES STD. 840.36	STEEL FRAME WITH TWO GRATES STD. 840.37	TEMP STEEL PLATE COVER MASONRY DRAINAGE	M.H. STD. 840.51, STD. 840.52, OR STD. 840.53	M.H. FRAME AND COVER STD. 840.54	CONVERT EXISTING C.B. TO J.B.	CONVERT EXISTING C.B. TO D.I.	CONVERT EXISTING D.I. TO J.B.	ANTI-SEEP COLLAR - SEE SPEC. PROV. EA.	ADJUST C.B.	ADJUST D.I.	CONCRETE FLUME IN 2'-0" C&G (SEE REMARKS)	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
Y3 10+70	18 RT	0631		68.1																																	1			1	1																																								
		0631	0630		63.8	63.4														40																																																													
Y3 10+70	18 LT	0630		68.4																																	1			1	1																																								
		0630	0629		63.4	63.0														36																																																														
Y2 19+78	16 RT	0633B		68.5																																	1	0.6		1			1																																						
		0633B	0633A		62.9	62.7	0.3														64																																																													
Y2 19+15	16 RT	0633A		68.4																																	1	0.7		1			1																																						
		0633A	0633		62.7	62.6	0.3														32																																																													
Y2 18+82	17 LT	0634		68.2																																	1			1	1																																								
		0634	0633		65.1	64.8																					36																																																									
Y2 18+82	17 RT	0633		68.2																																	1	0.6		1	1																																								
		0633	0632		62.6	62.0															56																																																													
Y2 18+28	19 RT	0632		68.8																																	1	1.8		1			1																																						
		0632	0629		62.0	61.4															88																																																													
Y2 17+43	20 RT	0629		68.7																																	1	5.0	0.7	1			1																																					28	
		0629	0627		58.0	57.8																				72																																																									
Y2 19+78	16 LT	0634B		68.4																																	1	0.1		1		1																																							
		0634B	0633B		63.3	63.2	0.3																				32																																																										
Y2 19+15	16 LT	0634A		68.4																																	1			1		1																																							
		0634A	0634		65.2	65.1																					32																																																										
Y3 11+90	30 RT	0635		67.5																																	1												1						1																										PRECAST STRUCTURE
		0635	0639		64.5	64.0																					60																																																									
Y3 13+81	18 RT	0636		66.1																																	1	1.3		1		1																																							
		0636	0637		59.8	59.3														28																																																													
Y3 15+06	9 LT	0637A		66.4																																	1	2.4																								1						1												
		0637A	0637		59.0	58.8	0.2																			124																																																								
Y3 12+75	18 RT	0636A		67.6																																	1			1		1																																							
		0636A	0638		64.0	63.0														48																																																													
Y3 13+81	9 LT	0637		66.8																																	1	3.0																								1						1												
		0637	0638		58.8	58.5																				120																																																									
Y3 12+72	29 LT	0638		66.5																																	1	3.0										1				1																															326	PRECAST STRUCTURE
		0638	0646		58.5	58.4																				48																																																											
Y3 12+36	53 LT	0646		66.5																																	1	3.1										1				1																																PRECAST STRUCTURE
		0646	0647		58.4	58.4																				12																																																											
Y3 12+28	47 LT	0647		67.0																																	1	3.6																								1						1												SPECIAL DESIGN, SEE DETAIL 2C-9 OR 2C-17
		0647	0638A		58.4	58.3																				12																																																												
Y3 12+17	41 LT	0638A		67.9																																	1	4.6		1	1																																								PRECAST STRUCTURE
		0638A	0640		58.3	58.3	0.2																			36																																																									
Y3 11+83	41 LT	0640		68.1																																	1	4.8		1	1																																								PRECAST STRUCTURE
		0640	0639		58.3	58.2																				36																																																											
Y3 11+59	17 LT	0639		68.4																																	1	5.0	0.2	1			1																																						PRECAST STRUCTURE
		0639	0629		58.2	58.0																				72																																																											
Y2 16+10	34 LT	0641		67.0																																	1									1	1																																	66	
		0641	0642		64.0	63.8														16																																																													
Y2 16+10	21 LT	0642		67.9																																	1			1	1																																							50	
		0642	0628		63.8	63.3														56																																																													
L 40+15	48 LT	0701		68.0																																	1			1		1																																							
		0701	0612A		64.9	64.3	0.4																				84																																																											
L 41+50	45 LT	0702		69.1																																	1			1		1																																							
SHEET TOTALS																				224	240					532	244										25	39.6	0.9	18	7	6	5			1	1	2	1			2				1								3						3											470	

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