COMPUTED BY: MRH DATE: 1/10/14
CHECKED BY: JEJ DATE: 2/6/14

PROJECT REFERENCE NO.	SHEET NO.
B-4983	3-A

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
SUB–REGIONAL & REGIONAL
LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)

NOTE: Invert Elevations are for Bid Purposes only and shall not be used for project construction stakeout. See "Standard Specifications For Roads and Structures, Section 300–5".

STATION	LOCATION (LT,RT, OR CL)	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	DRAINAGE PIPE (RCP, CSP, CAAP, HDPE, or PVC) 12"	15"	18"	24"	30"	36"	42"	48"	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE
11+78	LT	401		1195.5															
11+78	LT	401	402		1192.3	1182.1			32							X			
12+49	LT																		
10+87	RT	403		1190.9															
10+87	RT	403	404		1187.9	1186.8			20								X	X	
10+87.33	RT	404		1189.0															
10+71	RT	404	406		1186.8	1186.6			32								X	X	
10+57.20	RT	406		1189.0															
10+46	RT	406	407		1186.6	1185.0			24								X	X	
10+36	RT	407		1188.0															
10+26	RT	407	408		1185.0	1184.9			32								X	X	
10+14	RT	408		1188.2															
10+00	RT	408	409		1184.9	1186.2			44								X	X	
10+00	RT	409		1188.9															
12+30	RT	405		1197.9															
12+30	RT	414		1185.0															
12+30	RT	405	414		1194.9	1182.0			24							X			
12+00	RT	414	410		1182.0	1185.6			64										
11+70	RT	410		1187.8															
12+73	RT	414	416		1182.0	1177.6			80										
14+54	RT																		
14+57	LT																		
15+81	LT	418		1198.8															
15+84	LT	418	420		1195.7	1189.0			36							X			
15+88	RT	422		1196.7															
15+74	RT	422	421		1190.6	1186.9			52										
16+20	RT	422	424		1190.6	1190.8													
16+50	RT	424		1194.6															
16+72	RT	424	426		1190.8	1190.9													
16+94	RT	426		1193.9															
TOTALS									440										

STATION	C.S. PIPE 12" .064	15" .064	18" .064	24" .064	36" .079	42" .109	48" .109	R.C. PIPE (CLASS III) 15"	18"	24"	30"	36"	42"	48"	R.C. PIPE (CLASS IV) 12"	15"	18"	24"	30"	36"	42"	48"	**" R. C. PIPE (CLASS V)	**" R. C. PIPE CULVERTS, CONTRACTOR DESIGN PIPE	**" R. C. PIPE CULVERTS, CONTRACTOR DESIGN PIPE	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE
11+78																											
11+78																											
12+49																											
10+87																											
10+87																											
10+87.33																											
10+71																											
10+57.20																											
10+46																											
10+36																											
10+26																											
10+14																											
10+00																											
10+00																											
12+30																											
12+30																											
12+30																											
12+00																											
11+70																											
12+73																											
14+54																											
14+57																											
15+81																											
15+84																											
15+88																											
15+74																											
16+20																	60										
16+50																											
16+72																	48										
16+94																											
TOTALS																	108										

STATION	ENDWALLS STD. 838.01, STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YDS. R.C.P.	C.S.P.	QUANTITIES FOR DRAINAGE STRUCTURES PER EACH (0' THRU 5.0')	* TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') LIN. *FT. A 5.0' THRU 10.0'	B 10.0' AND ABOVE	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES AND HOOD STANDARD 840.03 TYPE OF GRATE E	F	G		CONCRETE TRANSITIONAL SECTION CATCH BASIN	DROP INLET	T.B.D.I. STD. 840.35	G.D.I. FRAME WITH TWO GRATES STD. 840.29	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME & GRATE STD. 840.16	J.B. STD. 840.31 OR 840.32	G.D.I. TYPE "B" STD. 840.18 OR 840.27	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24			DRAINAGE ELBOWS NO. & SIZE	PIPE REMOVAL LIN.FT.	REMARKS
11+78			1										1	1										
11+78																						2@15"		
12+49																							30	REMOVE 8" CMP
10+87			1			1			1															
10+87																								
10+87.33			1												1	1								
10+71																								
10+57.20			1												1	1								
10+46																								
10+36			1												1	1								
10+26																							33	REMOVE 12" RCP
10+14			1														1							
10+00																								
10+00			1															1	1					
12+30			1			1			1									1	1					
12+30			1														1							
12+30																						2@15"		
12+00																							56	REMOVE DI, 15" CMP & 15" RCP
11+70			1												1	1								
12+73																							24	REMOVE 8" CMP
14+54																							32	REMOVE 8" CMP
14+57																							30	REMOVE 8" CMP
15+81			1										1	1										
15+84																						2@15"		
15+88			1	1.1		1		1																
15+74																								
16+20																								
16+50			1			1		1																
16+72																								
16+94			1			1		1																
TOTALS			14	1.1		5		3	2				2	2	4	4	2	1	1			6@15"	205	

ABBREVIATIONS

C.B.	CATCH BASIN
N.D.I.	NARROW DROP INLET
D.I.	DROP INLET
G.D.I.	GRATED DROP INLET
G.D.I. (N.S.)	GRATED DROP INLET (NARROW SLOT)
J.B.	JUNCTION BOX
M.H.	MANHOLE
T.B.D.I.	TRAFFIC BEARING DROP INLET
T.B.J.B.	TRAFFIC BEARING JUNCTION BOX

4/04/06
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