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COMPUTED BY: ADJ DATE: 7/6/2015

CHECKED BY: BTV DATE: 1/16/2017

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
EB-4707B	3D-2

Kimley»Horn
P.O. Box 33068
Raleigh, N.C. 27636-3068

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

STATION / SIZE / THICKNESS OR GAUGE	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	DO NOT USE PVC	C.S. PIPE 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''	** " R.C. PIPE (CLASS V)	***" RC PIPE CULVERTS, CONTRACTOR DESIGN	***" RC PIPE CULVERTS, CONTRACTOR DESIGN	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CU. YARDS R.C.P.	C.S.P.	QUANTITIES FOR DRAINAGE STRUCTURES PER EACH (0' THRU 5.0')	LIN. FT. A 5.0' THRU 10.0'	*TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') LIN. FT. 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 DROP INLET	CATCH BASIN	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATES STD. 840.16	J.B. STD. 840.31 OR 840.32	TBJB STD. 840.34	M.H. STD. 840.51 OR 840.53	M.H. FRAME AND COVER STD. 840.54	ADJUSTMENT OF CATCH BASINS	ADJUSTMENT OF MANHOLES	CONVERT EXIST D.I. TO J.B. W/ M.H.	CONVERT EXIST C.B. TO J.B. W/ M.H.	CONCRETE 2GI STD. 840.18 or 840.27	2GI STD. 840.24	FLOWABLE FILL (CY)	DRAINAGE PIPE ELBOWS NO. & SIZE	CONC. COLLARS CL. "B" C.Y. STD. 840.72	PIPE REMOVAL LIN. FT.	REMARKS
		906	1010		304.5	298.0																																	212																																			22	
76+70-L-	LT	902		322.7																																														1			1			1																				
		902	1001		319.5	303.2																																356																																				87	
80+29-L-	LT	1001		306.4																																														1			1			1																				
		1001	1003		303.2	300.8																																60																																				13	
80+92 -L-	LT	1003		304.1																																														1			1			1																			7	
		1003	1004		300.8	298.0																																	120																																			182	
84+10 -L-	LT	1005		301.7																																														1			1		1																					
		1005	1007		298.7	297.8																																112																																					
82+97 -L-	LT	1006		301.0																																														1									1	1																	
		1006	1007		298.7	297.8			16																																																																			
82+98 -L-	LT	1007		300.7																																														1			1	1																						
		1007	1012		297.8	297.7																																8																																					
82+87 -L-	LT	1012		300.8																																														1			1	1																						
		1012	1004		297.7	297.5																																72																																					
82+15 -L-	LT	1004		301.3																																														1			1			1																				
		1004	1010		297.5	297.3																																		44																																	46	
84+10 -L-	RT	1008		301.7																																														1			1			1																				
		1008	1009		298.7	297.7																																112																																					
82+98 -L-	RT	1009		300.7																																														1			1	1																						
		1009	1013		297.7	297.7																																8																																					
82+87 -L-	RT	1013		300.8																																														1			1	1																						
		1013	1010		297.7	297.3																																72																																					
82+15 -L-	RT	1010		301.3																																														1			1		1																					
		1010	1011		297.0	296.9						28																																																																
80+29 -L-	RT	1016							24																																																																21	
91+50 -L-	RT	1015		301.6																																														1			1		1																					
		1015	1014		298.6	298.3																																44																																					
91+50 -L-	LT	1014		301.6																																														1			1			1																				
		1014	1101		298.3	287.5																																292																																				75	
94+43 -L-	LT	1177																																																																									0.399		
		1177	1101		287.6	287.5																																4																																				26	
94+42 -L-	LT	1101		294.0																																														1	1.55		1			1																				
		1101	1103		287.5	278.0																																	260																																			304	
97+05 -L-	LT	1103		281.3																																														1			1			1																				
		1103	1104		278.0	263.1																																	188																																			142	
98+95 -L-	LT	1178																																																																									0.447		
		1178	1104		263.3	268.0																																	4																																				
98+95 -L-	LT	1104		271.7																																														1	3.59		1			1																				
		1104	1106		263.1	254.9																																	264																															3.32			142	
101+60 -L-	LT	1106		258.2																																														1			1			1																			26	
		1106	1107		254.4	249.5																																		148																																				
SHEET TOTALS									40			28																										1140	1048	192											18	5.14		17	4	3	10			1	1											3.32		0.846	1093	

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.)	(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

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1/30/2017