COMPUTED BY: Joshua G. Dalton, PE DATE: 3/12/2015

CHECKED BY: Jimmy Goodnight, PE DATE: 4/1/2015

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
W-5514	3D-1

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout.

Choose Project Tier

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

STATION	LOCATION (LT, RT, OR CL)'	STRUCTURE NO.		TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	SIDE DRAIN PIPE (RCP, CSP, CAAP, HDPE, or PVC)												C.S. PIPE								R.C. PIPE CLASS III								R.C. PIPE CLASS IV								** " R.C. PIPE (CLASS V)	***" RC PIPE CULVERTS, CONTRACTOR DESIGN	***" RC PIPE CULVERTS, CONTRACTOR DESIGN	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	ENDWALLS STD. 838.01 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YARDS		QUANTITIES FOR DRAINAGE STRUCTURES	*TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') LIN. FT.		C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES, AND HOOD STANDARD 840.03 TYPE OF GRATE			CONCRETE TRANSITIONAL SECTION		D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATE STD. 840.16	G.D.I. TYPE "A" STD. 840.17 OR 840.26	G.D.I. TYPE "B" STD. 840.18 OR 840.27	G.D.I. TYPE "D" STD. 840.19 OR 840.28	G.D.I. FRAME WITH GRATE STD. 840.20	G.D.I. FRAME WITH TWO GRATES STD. 840.22	G.D.I. (N.S.) FRAME WITH GRATE STD. 840.24	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.29	J.B. STD. 840.31 OR 840.32	T.B.J.B. STD. 840.34	M.H. FRAME AND COVER STD. 840.54	T.B.D.I. STD. 840.35	CONVERT O.T.C.B. TO C.B.	CONVERT C.B. TO T.B.J.B.	SIDE DRAIN PIPE ELBOWS NO. & SIZE	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	CONC. COLLARS CL. "B" C.Y. STD. 840.72	PIPE REMOVAL LIN. FT.	REMARKS
SIZE / THICKNESS OR GAUGE		FROM	TO					12"	15"	18"	24"	30"	36"	42"	48"	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	12" .064	15" .064	18" .064	24" .064	30" .079	36" .079	42" .109	48" .109	12"	15"	18"	24"	30"	36"	42"	48"	12"	15"	18"	24"	30"	36"	42"	48"						R.C.P.	C.S.P.	PER EACH (0' THRU 5.0')	A 5.0' THRU 10.0'	B 10.0' AND ABOVE		E	F	G	DROP INLET	CATCH BASIN																				
105+00 -L-	RT	401		210.8	205.1																																														1	0.7						1		1	1																		
		401	400		205.1	204.8	X																														72																																													
106+00 -L-	RT	402		210.6	205.4																																														1	0.2						1		1	1																		
		402	401		205.4	205.1	X																														100																																													
107+00 -L-	RT	403		210.5	205.6																																														1							1		1	1																		
		403	402		205.6	205.4	X																														100																																													
107+75 -L-	RT	404		210.4	205.8																																														1							1		1	1																		
		404	403		205.8	205.6	X																														76																																													
108+25 -L-	RT	405		210.4	206.0																																														1							1		1	1																		
		405	404		206.0	205.8	X																														52																																													
108+75 -L-	RT	406		210.2	206.2																																														1							1		1	1																		
		406	405		206.2	206.0	X																														52																																													
109+14 -L-	RT	407		210.2	206.3																																														1							1		1	1																		
		407	406		206.3	206.2	X																														40																																													
		408	407		206.5	206.3	X																														36																																												REMOVE EXIST 15" RCP
110+00 -L-	RT	409		210.1	206.9																																														1							1		1	1																		
		409	410		206.9	206.75	X																														52																																													
110+50 -L-	CL	410		210.1	206.75																																														1							1		1	1																		
		410	411		206.75	206.6	X																														52																																													
111+00 -L-	CL	411		210.0	206.6																																														1							1		1	1																		
		411	412		206.6	206.4	X																														56																																													
111+55 -L-	CL	412		209.9	206.4																																														1							1		1	1																		
		412	413		206.4	206.28	X																														40																																													
134+35 -L-	LT	601		201.7	198.5																																														1							1		1	1																		
		601	602		198.5	198.4																															12																																													
134+45 -L-	LT	602		201.6	198.4																																														1							1		1	1																		
		602	603		198.4	198.0																															16																																													
134+60 -L-	LT	603		201.6	196.7																																														1																				1	1								INVERT OF JB IS ESTIMATED.
137+50 -L-	RT	604		199.6	196.4																																														1							1		1	1																		
		604	605		196.4	195.8																															76																																													
138+25 -L-	RT	605		199.0	195.8																																														1							1		1	1																		
		605	606		195.8	195.0																															76																																													
139+00 -L-	RT	606		198.2	195.0																																														1							1		1	1																		
		606	607		195.0	194.2																															76																																													
139+75 -L-	RT	607		197.4	194.2																																														1							1		1	1																		
		607	608		194.2	193.1																															100																																													
140+74 -L-	RT	608		196.3	189.0																																														1	2.3						1		1	1																		INVERT OF DI IS ESTIMATED
141+75 -L-	RT	701		195.2	192.0																																														1							1		1	1																		
		701	702		192.0	191.5																															76																																													
142+50 -L-	RT	702		194.7	191.5																																														1							1		1	1																		
		702	703		191.5	190.8																															76																																													
143+25 -L-	CL	703		194.0	190.8																																														1							1		1	1																		
		703	704		190.8	189.6																															84																																													
144+07 -L-	LT	704		193.5	189.6																																														1							1		1	1																		
		704	EX.		189.6	188.3																															40																																													
145+50 -L-	LT	705		193.3	190.2																																														1							1		1	1																		
		705	704		190.2	189.6																															144																																													
159+96 -L-	RT	801		154.6	151.4																																														1							1		1	1																		
		801	802		151.4	150.4																															52																																													
159+44 -L-	CL	802		155.8	146.6																																														1	4.2																			1	1								
172+30 -L-	RT	901		178.2	175.0																																														1							1		1	1																		
		901	902		175.0	173.7																															48																																													
171+84 -L-	RT	902		176.9	173.7																																														1							1		1	1																		
		902	903		173.7	170.6																															48																																													
SHEET TOTALS																																					1652													28	7.4						26		26	26									2	2								

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