COMPUTED BY: D. Petry	DATE: 1/23/2014
CHECKED BY:	DATE:

RD248621

PROJECT NO.	SHEET NO.
W-5107	3D-1

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)

STATION / SIZE / THICKNESS OR GAUGE	LOCATION (LT, RT, OR CL)'	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	SIDE DRAIN 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	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"		15" WELDED STEEL PIPE, 0.500" THK. (TRENCHLESS INSTALLATION)	30" WELDED STEEL PIPE, 0.500" THK. (TRENCHLESS INSTALLATION)	36" WELDED STEEL PIPE, 0.500" THK. (TRENCHLESS INSTALLATION)	15" SIDE DRAIN PIPE	24" SIDE DRAIN PIPE	ENDWALLS STD. 838.01 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YARDS 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 DROP INLET	CATCH BASIN	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME WITH TWO GRATES 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. 840.24	J.B. STD. 840.31 OR 840.32	FLOWABLE FILL, CY.	T.B.D.I. STD. 840.36	STEEL GRATES AND FRAME STD. 840.37	REPAIR EX. DI SEE SPECIAL PROVISIONS	CS 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
-L1- 18+00	CL	401		161.88																																																1												1			1												
-1L- 18+00	CL	401	402		159.13	158.30																							144																																																	153	REMOVE 15" PIPE & DI
-L1- 19+47	CL	402		162.88																																																1	0.32											1			1												
-L1- 19+47	RT.	402	405		157.56	157.05																																								100																									2							68	REMOVE 18" PIPE & DI
-L1- 13+75	CL																																																																										1					
-L1- 19+47	LT.	402	406		157.05	156.68																																								92																									3							59	REMOVE18" PIPE
-Y1LPC- 16+23	LT.	603		159.13																																																1			1			1																						
-Y1LPC- 16+23	RT.	603	604		156.13	153.02																															104																																														
-Y1LPC- 15+00	LT.	605		160.45																																																1			1			1																						
-Y1LPC- 15+00	LT.	605	606		157.45	156.04																							32																																																		
-Y1LPC- 14+40	CL	607	608																											136																																																
-Y1LPC- 17+60	RT.	609	611		152.63	152.26																																		72																																										
-Y1LPC- 17+60	LT.	610		158.44																																																1	1.34		1	1																							
-Y1LPC- 17+60	CL	610	611		152.26	152.10																																		24																																										
-Y1LPC- 17+60	LT.	611		159.01																																																1	1.91						1													1	1						
-Y1RPC- 20+62	LT.	612		159.32																																																1							1													1	1						
-Y1RPC- 20+62	LT.	612	611		154.89	153.36																															16																																														
-Y1- 26+00	LT.	613		182.72																																																1	2.77																			1	1						
-Y1- 26+00	LT.	613	639		174.95	149.47																	96																																																								2 @ 15"				
-Y1LPC- 17+97	LT.	614		158.60																																																1			1			1																						
-Y1LPC- 17+97	LT.	614	610		155.20	153.13																															32																																														
-Y1LPC- 17+60	LT.	615	610		152.10	151.86						36																																																																					
-Y1- 20+65	RT.	616		162.04																																																1							1													1	1						
-Y1- 20+65	RT.	616	617		158.87	158.54																															84																																														
-Y1- 21+53	RT.	617		164.77																																																1	1.23						1													1	1						
-Y1- 21+53	RT.	617	618		158.54	158.34																															36																																														
-Y1- 21+52	RT.	618		165.45																																																1	2.11																			1	1						
-Y1- 21+52	RT.	618	619		158.34	151.74																	52																																																									2 @ 15"				
-Y3- 13+70	LT.	620									32																																																																					27	REMOVE 15" PIPE
-SR1- 11+50	CL	621	622		150.58	150.50																								76																																																	
-Y1- 23+50	RT.	623		174.63																																																1																				1	1						
-Y1- 23+50	RT.	623	618		171.46	158.34																															204																																														
-Y1- 23+50	RT.	624		173.11																																																1							1													1	1						
-Y1- 23+50	LT.	624	625		169.94	167.11																															44																																														
-Y1- 23+50	LT.	625		170.28																																																1																				1	1						
-Y1- 23+50	LT.	625	626																																		168																																														
-Y1- 21+74	LT.	626		162.48																																																1																				1	1						
-Y1- 21+74	LT.	626	627																																		16																																														
-Y1- 21+54	LT.	627		161.98																																																1																				1	1						
-Y1- 21+54	LT.	627	617		158.81	158.54																															56																																														
SHEET TOTALS											32	36									148								176	212							760			96						192						17	9.68		4	1		3	5					2			2				5	11	11	1	4 @ 15"			307	

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