COMPUTED BY: HLE DATE: 8/13/2015

CHECKED BY: SKR DATE: 9/23/2016

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
U-3633	3D-3

RD-299043

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	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	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"
-L- 44+00	LT	0601		655.21	652.21																																						
		0601	0618		652.21	651.90																							20														
-L- 44+93	RT	0602		649.81	645.56																																						
		0602	0605		645.56	629.69																																		254			
-L- 47+50	LT	0604		633.83	630.58																																						
		0604	0605		630.58	630.69																								84													
		0604	0639		630.83	633.70															16																						
-L- 47+50	RT	0605		633.94	629.19																																						
		0605	0629		629.19	619.97																																			148		
-L- 51+00	RT	0606		615.67	602.12																																						
		0606	0644		602.12	601.60									52		X																										
-L- 49+49	LT	0607		622.00	619.00																																						
		0607	0648		619.00	616.57																															52						
-L- 52+50	LT	0608		612.17	609.17																																						
		0608	0659		609.17	608.43																															108						
		0608	0653		609.17	618.30																							12														
-L- 53+69.50	LT	0609		611.41	608.41																																						
		0609	0659		608.41	608.43																															8						
-L- 52+37	RT	0610		611.85	604.25																																						
		0610	0645		604.25	592.30					48																																
-L- 53+60	RT	0611		611.39	606.50																																						
		0611	0610		606.50	606.00																																128					
-L- 56+14	RT	0612		614.68	610.43																																						
		0612	0640		610.43	609.72																																		40			
-L- 56+14	LT	0613		615.64	612.47																																						
		0613	0612		612.47	611.68																							44														
-L- 56+59	LT	0614		616.69	613.52																																						
		0614	0613		613.52	612.64																															44						
-L- 44+14	LT	0618		654.90	651.90																																						
		0618	0619		651.90	650.95																							24														
-Y7- 17+15	RT	0619		654.20	650.95																																						
-Y7- 17+15	LT	0620		653.86	650.61																																						
		0620	0621		650.61	648.00																								36													
-L- 44+95	LT	0621		650.50	648.00																																						
		0621	0602		648.00	646.56																								100													
-L- 46+81	LT	0625		638.80	635.55																																						
		0625	0626		635.55	632.90																								48													
		0625	0627		635.80	639.52																							28														
-L- 47+33	LT	0626		635.40	632.90																																						
		0626	0604		632.90	630.58																20																					
-L- 49+00	RT	0629		624.72	619.97																																						
		0629	0606		619.97	610.00																																			196		
-L- 55+72	RT	0640		613.97	609.72																																						
		0640	0641		609.72	595.90																	48																				
SHEET TOTALS											48			52							16	20		48					128	268							212	128		294	344		

STATION	LOCATION	STRUCTURE NO. FROM	STRUCTURE NO. TO			36" SLUICE GATE	42" SLUICE GATE (SEE DETAIL 2C-1)	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 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	T.B.J.B. STD. 840.34	T.B.D.I. STD. 840.35	ENERGY DISSIPATOR BASIN	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.29	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	J.B. STD. 840.31 OR 840.32	CONVERT EXISTING CB TO JB (SEE DETAIL 2C-3)	MANHOLE FRAME AND COVER STD. 840.54	CONVERT EXISTING DI TO JB (SEE DETAIL 2C-3)	4" CONCRETE PAVED DITCH, S.Y.	CONVERT EXISTING JB TO DI (SEE DETAIL 2C-4)	ADJUST CB	FLOWABLE FILL PIPE PLUG (CY)	C. S. 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
-L- 44+00	LT	0601								1			1			1																								
		0601	0618																																				63	
-L- 44+93	RT	0602								1			1		1																									
		0602	0605																																					
-L- 47+50	LT	0604								1			1			1																								
		0604	0605																																				68	REMOVE DI
		0604	0639																														11							(BDO) SEE STD. 850.10
-L- 47+50	RT	0605								1			1		1																									
		0605	0629																																					
-L- 51+00	RT	0606								1	5.0	3.55	1		1																									
		0606	0644																																					
-L- 49+49	LT	0607								1			1	1																										
		0607	0648																																					
-L- 52+50	LT	0608								1			1			1																							60	
		0608	0659																																				54	REMOVE MANHOLE AND 2 PIPES
		0608	0653																														11							(BDO) SEE STD. 850.10
-L- 53+69.50	LT	0609								1			1	1																										
		0609	0659																																					
-L- 52+37	RT	0610								1	2.6		1		1																									
		0610	0645																																					
-L- 53+60	RT	0611								1			1	1																										
		0611	0610																																					
-L- 56+14	RT	0612								1			1			1																								
		0612	0640																																					
-L- 56+14	LT	0613								1			1			1		1																						
		0613	0612																																					
-L- 56+59	LT	0614								1			1			1		1																						
		0614	0613																																					
-L- 44+14	LT	0618								1									1	1																				
		0618	0619																																					REMOVE CB
-Y7- 17+15	RT	0619								1			1			1																								RETAIN EXISTING 18" RCP
-Y7- 17+15	LT	0620								1			1			1																							31	REMOVE CB
		0620	0621																																					
-L- 44+95	LT	0621								1									1	1																				
		0621	0602																																				48	REMOVE DI & HEADWALL
-L- 46+81	LT	0625								1												1					1												12	2GI
		0625	0626																																				43	REMOVE DI
		0625	0627																																				36	
-L- 47+33	LT	0626								1												1					1													2GI & RETAIN EXISTING 15" RCP
		0626	0604																																				68	REMOVE DI
-L- 49+00	RT	0629								1			1		1																									
		0629	0606																																					
-L- 55+72	RT	0640								1			1			1																								
		0640	0641																																					
SHEET TOTALS										21	7.6	3.55	17	3	5	9		2	2	2		2					2						22						483	

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