COMPUTED BY:	HLE	DATE:	8/13/2015
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RD-299043

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
U-3633	3D-5

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	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
-Y8- 10+79	LT	0721		623.00	620.00														
		0721	0720		620.00	621.70													
		0721	0737		620.00	620.60													
-L- 67+59	RT	0727		647.41	644.41														
		0727	0707		644.41	638.78													
		0727	0728		644.41	645.00													
-L- 65+84	RT	0724		639.97	635.00														
		0724	0706		635.00	622.50													
		0724	0725		635.00	635.60													
-L- 70+20	LT	0729		660.10	657.85														
		0729	0802		657.85	657.00			68								X		
-L- 66+88	LT	0731		645.46	642.46														
		0731	0712		642.46	636.85													
-L- 62+62	RT	0730		628.80	625.38														
		0730	0705		625.38	623.46													
-L- 60+58		0735		623.93	620.51														
		0735	0736		620.51	619.77													
-L- 60+57	RT	0736		622.77	619.02														
		0736	0702		619.02	613.92													
-L- 61+69	RT	0737		624.25	620.50														
		0737	0736		620.50	619.77													
-Y8- 11+09	LT	0738	0721		618.41	620.00													
-L- 70+84	LT	0801		663.13															
-L- 70+84	LT	0802		663.00	657.00														
		0802	0803		657.00														
-L- 70+86	RT	0804		662.50															
-Y11- 19+11	RT	0805		670.79	668.16														
		0805	0811		668.16														
-L- 73+90	LT	0806		673.68	670.26														
		0806	0846		670.51														
-L- 74+00	RT	0807		672.39	670.06														
		0807	0825		670.06	669.60													
-L- 76+54	LT	0808		675.02	671.85														
		0808	0809		671.85	670.59													
-L- 76+54		0809		673.59	670.59														
		0809	0810		670.59	668.59													
SHEET TOTALS									68										

STATION	FROM	TO	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"
-Y8- 10+79	0721																									
	0721	0720										36														
	0721	0737										36														
-L- 67+59	0727																									
	0727	0707																		104						
	0727	0728										16														
-L- 65+84	0724																									
	0724	0706																		304						
	0724	0725										20														
-L- 70+20	0729																									
	0729	0802																								
-L- 66+88	0731																									
	0731	0712																		124						
-L- 62+62	0730																									
	0730	0705																			60					
-L- 60+58	0735																									
	0735	0736											32													
-L- 60+57	0736																									
	0736	0702																				264				
-L- 61+69	0737																									
	0737	0736										108														
-Y8- 11+09	0738	0721										32														
-L- 70+84	0801																									
-L- 70+84	0802																									
	0802	0803											12													
-L- 70+86	0804																									
-Y11- 19+11	0805																									
	0805	0811											20													
-L- 73+90	0806																									
	0806	0846										40														
-L- 74+00	0807																									
	0807	0825										60														
-L- 76+54	0808																									
	0808	0809										44														
-L- 76+54	0809																									
	0809	0810										148														
SHEET TOTALS												540	64							532	60	264				

STATION	FROM	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
-Y8- 10+79	0721								1			1			1		
	0721	0720															
	0721	0737															
-L- 67+59	0727								1			1			1		
	0727	0707															
	0727	0728															
-L- 65+84	0724								1			1			1		
	0724	0706															
	0724	0725															
-L- 70+20	0729								1			1	1				
	0729	0802															
-L- 66+88	0731								1			1		1			
	0731	0712															
-L- 62+62	0730								1							1	
	0730	0705															
-L- 60+58	0735								1							1	
	0735	0736															
-L- 60+57	0736								1			1			1		
	0736	0702															
-L- 61+69	0737								1								
	0737	0736															
-Y8- 11+09	0738	0721															
-L- 70+84	0801															1	
-L- 70+84	0802								1	1		1		1			
	0802	0803															
-L- 70+86	0804								1								
-Y11- 19+11	0805								1			1			1		
	0805	0811															
-L- 73+90	0806								1							1	
	0806	0846															
-L- 74+00	0807								1			1			1		
	0807	0825															
-L- 76+54	0808								1							1	
	0808	0809															
-L- 76+54	0809								1			1		1			
	0809	0810															
SHEET TOTALS									16	1		10	1	3	6	5	

STATION	FROM	TO	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)
-Y8- 10+79	0721																		
	0721	0720																	
	0721	0737																	
-L- 67+59	0727																		
	0727	0707																	
	0727	0728																	
-L- 65+84	0724																		3.2
	0724	0706																	
	0724	0725																	
-L- 70+20	0729																		
	0729	0802																	
-L- 66+88	0731																		
	0731	0712																	
-L- 62+62	0730		1	1															
	0730	0705																	
-L- 60+58	0735		1	1															
	0735	0736																	
-L- 60+57	0736																		
	0736	0702																	
-L- 61+69	0737											1		1					
	0737	0736																	
-Y8- 11+09	0738	0721																	
-L- 70+84	0801			1													1		
-L- 70+84	0802																		
	0802	0803																	
-L- 70+86	0804						1							1					
-Y11- 19+11	0805																		
	0805	0811																	
-L- 73+90	0806		1	1															
	0806	0846																	
-L- 74+00	0807																		
	0807	0825																	
-L- 76+54	0808		1	1															
	0808	0809																	
-L- 76+54	0809																		
	0809	0810																	
SHEET TOTALS			4	5			1					1		2			1		3.2

STATION	FROM	TO	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
-Y8- 10+79	0721						
	0721	0720					
	0721	0737				5	REMOVE CB & 15" RCP
-L- 67+59	0727					7	REMOVE JB
	0727	0707				68	REMOVE JB & 2 EXISTING PIPES
	0727	0728				25	
-L- 65+84	0724						PLUG 18" RCP w/ FLOWABLE FILL
	0724	0706					REMOVE 3 EXISTING PIPES
	0724	0725					REMOVE DI & EXISTING PIPE
-L- 70+20	0729					49	REMOVE CB
	0729	0802				32	
-L- 66+88	0731					20	
	0731	0712					
-L- 62+62	0730						
	0730	0705					
-L- 60+58	0735						
	0735	0736					
-L- 60+57	0736						
	0736	0702					
-L- 61+69	0737						
	0737	0736					
-Y8- 11+09	0738	0721			0.399	48	
-L- 70+84	0801						
-L- 70+84	0802						
	0802	0803			0.4465	55	REMOVE CB AND 2 EXISTING PIPES
-L- 70+86	0804						
-Y11- 19+11	0805						REMOVE EXISTING CB
	0805	0811					REMOVE EXISTING 18" RCP
-L- 73+90	0806						
	0806	0846					
-L- 74+00	0807						
	0807	0825				153	
-L- 76+54	0808						
	0808	0809					
-L- 76+54	0809					85	
	0809	0810				19	REMOVE EXISTING CB
SHEET TOTALS					0.8455	566	

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