COMPUTED BY: SLK DATE: 12/31/2013

CHECKED BY: GSP DATE: 12/31/2013

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
U-3615B	3D-4

RAL-WS033

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) SIZE	THICKNESS OR GAUGE	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	C.S. PIPE SIZE	THICKNESS OR GAUGE	R.C. PIPE CLASS III SIZE	R.C. PIPE CLASS IV SIZE	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	ENDWALLS STD. 838.01 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YARDS R.C.P.	ENDWALLS CU. YARDS C.S.P.	QUANTITIES FOR DRAINAGE STRUCTURES *TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL. 'B') PER EACH (0' THRU 5.0')	LIN. FT. A 5.0' THRU 10.0'	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 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. (N.S. SAG) FRAME W/ GRATE STD. 840.24	G.D.I. (N.S. SAG) FRAME W/ 2 GRATES STD. 840.24	G.D.I. (N.S. FLAT) FRAME W/ 2 GRATES STD. 840.29	J.B. STD. 840.31 OR STD. 840.32	T.B.J.B. STD. 840.34	M.H. FRAME AND COVER STD. 840.54	GENE/REC PIPE ITEM - REMOVE AND RESET FES	CONVERT EXISTING D.I. TO J.B.	ADJUST C.B.	15" SLUICE GATE	18" SLUICE GATE	24" SLUICE GATE	30" SLUICE GATE	MODIFIED CONCRETE FLUME	PREFORMED SCOUR HOLE	FLOWABLE FILL CY	CONC. & BRICK PIPE PLUG STD. 840.71 CY	CONC. COLLARS CL. "B" STD. 840.72 CY	PIPE REMOVAL LIN. FT.	REMARKS
-L- 208+00	CL	63		840.49	837.49																	1			1			1		1																						
-L- 208+00	LT	63	62		837.49	836.56											52																																		
-L- 208+00	LT	62		839.56	836.56																	1			1			1																							
-L- 209+50	LT	62	64		836.56	835.67											152																																		
-L- 209+50	CL	65		839.36	836.36																	1			1			1		1																					
-L- 209+50	LT	65	64		836.36	835.67											40																																		
-L- 209+50	LT	64		838.67	835.67																	1			1			1																							
-L- 211+00	LT	64	66		835.67	834.24											152																																		
-L- 211+00	CL	67		838	835																	1			1			1		1																					
-L- 211+00	LT	67	66		835	834.24											40																																		
-L- 211+00	LT	66		837.24	834.24																	1			1			1																							
-L- 212+45	LT	66	68		833.37	830.77											148																																		
-L- 212+36	CL	69		835.03	832.03																	1			1			1		1																					
-L- 212+45	CL	69	69A		832.03	831.8											8																																		
-L- 212+45	CL	69A		835	831.8																	1			1			1		1																					
-L- 212+45	LT	69A	68		831.8	830.77											60																																		
-L- 212+45	LT	68		833.77	830.77																	1			1			1																							
-Y33- 13+22	RT	68	72		830.77	825.75											56																																		
-Y33- 13+21	RT	72		828.75	825.5																	1			1			1																				0.09		7	REMOVE 15" CONC.
-Y33- 13+21	LT	72	70A		825.5	825.33												36																																	
-Y33- 13+21	LT	70A		828.76	825.33																	1			1		1																						26	REMOVE 15" CONC.
-L- 213+79	LT	70A	70		825.33	825												68																																	
-L- 213+79	LT	70		831.59	825																	1	1.1		1			1																							
-L- 214+05	CL	70	71		825	824.54												56																																	
-L- 214+05	CL	71		832.1	824.03																	1	2.1		1			1		1																					
-L- 216+00	CL	71	74		824.03	823.44													196																															22	REMOVE 15" CONC.
-L- 216+00	LT	73		828.55	825.55																	1			1			1																							
-L- 216+00	CL	73	74		825.55	825.4											52																																		
-L- 216+00	CL	74		829.48	823.44																	1	0.5		1			1		1																					
-L- 216+37	CL	74	75		823.44	823.33													40																																	
-L- 216+37	CL	75		829.06	823.33																	1	0.2		1			1		1																					
-L- 217+00	CL	75	75A		823.33	823.14													64																																	
-L- 217+00	LT	76		827.03	824.03																	1			1			1																						33	REMOVE 15" CONC.
-L- 217+00	CL	76	75A		824.03	823.88											52																																		
-L- 217+00	CL	75A		827.76	823.14																	1			1			1		1																					
-L- 217+50	RT	75A	77		823.14	822.89													60																																	
-L- 217+50	RT	77		826.13	822.89																	1			1		1																							
-L- 218+50	RT	77	79		822.89	820.5													100																																	
-L- 218+10	LT	78		825.08	822.08																	1			1			1																						103	REMOVE 15" CONC.
-L- 218+50	LT	78	80		822.08	821.64											40																																		
-L- 218+50	LT	80		824.64	821.64																	1			1			1																							
-L- 218+50	RT	80	79		821.64	821											80																																		
-L- 218+50	RT	79		824.25	820.5																	1			1		1																							
-L- 220+00	RT	79	82		820.5	817.3													152																																	
-L- 220+00	CL	81		822.13	819.13																	1			1		1			1																					
-L- 220+00	RT	81	82		819.13	818.05											52																																		
-L- 220+00	RT	82		821.05	817.3																	1			1		1																							
-L- 221+90	RT	82	84		817.3	815.03													188																																	
-L- 221+90	RT	84		818.83	815.08																	1			1	1																									
SHEET TOTALS																	984	160	800			25	3.9		25	1	5	19		10																			0.09		191	

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