RD266446

COMPUTED BY:	MJD	DATE:	1/11/2012
CHECKED BY:	SKR	DATE:	7/18/14

PROJECT NO.	SHEET NO.
U-3465	3D-11

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".

SUB-REGIONAL & REGIONAL
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"
-L-																																										
	LT	1502	1503		238.0	236.1																															200					
167+00	LT	1503		239.1	236.1																																					
167+00	LT	1503	1508		236.1	235.3	X																														92					
167+91	LT	1508		238.6	233.9																																					
	LT	1508	1518		233.9	229.6						36				X																										
	LT	1508	1510		234.8	236.2	X																														112					
169+00	LT	1510		239.2	236.2																																					
	LT	1510	1511		236.2	241.4																															272					
171+70	LT	1511		244.4	241.4																																					
	LT	1511	1513		241.4	246.1																															384					
175+52	LT	1513		249.1	246.1																																					
	LT	1513	1515		246.1	247.3																															52					
	CL	1515		250.8	247.3																																					
	CL	1515	1514		247.3	247.5	X																														36					
175+17	CL	1514		250.5	247.5																																					
167+00	RT	1504		239.1	236.1																																					
	RT	1504	1507		236.1	235.6																															92					
167+98	RT	1507	1508		234.4	233.9																																		80		
	RT	1507		238.6	234.4																																					
	RT	1507	1505		234.9	236.1					28																															
	RT	1507	1506		234.6	236.2	X																														112					
169+00	RT	1506		239.2	236.2																																					
	RT	1506	1512		236.2	241.4																															272					
171+70	RT	1512		244.4	241.4																																					
	RT	1512	1516		241.4	241.8			16								X	X																								
	RT	1516		244.0	241.8																																					
177+46	CL		1620																																							
181+54	RT	1601	1602		244.0	243.6	X																																92			
	CL	1602		247.8	243.6																																					
	CL	1602	1603		243.6	237.3																																	40			
	LT	1603		246.3	237.3																																					
	LT	1603	1604		237.3	227.1					72					X																										
	LT	1603	1607		237.3	237.9	X																														156					
183+13	LT	1607		244.2	237.9																																					
	LT	1607	1605		241.2	242.7																															40					
	CL	1605		245.7	242.7																																					
	LT	1607	1606		237.9	238.2	X																														100					
184+10	LT	1606		241.2	238.2																																					
186+80	LT	1613		237.9	234.8																																					
	LT	1613	1615		234.8	234.7	X																														52					
186+90	CL	1615		239.7	234.7																																					
	CL	1615	1614		235.5	235.8	X																														80					
187+60	CL	1614		238.8	235.8																																					
186+81	RT	1615	1616		234.7	229.7																																	68			
-Y7-																																										
11+25	RT	1610	1609		241.6	241.7	X		16																																	
11+18	RT	1609		244.7	241.7																																					
	RT	1609	1608		241.7	242.1																															52					
SHEET TOTALS									32		100	36																									2104		200	80		

STATION	LOCATION	FROM	TO	24" WELDED STEEL PIPE, 0.5" THICK	30" WELDED STEEL PIPE, 0.5" THICK	36" WELDED STEEL PIPE, 0.5" THICK	4 SIDE OPEN THROAT CATCH BASIN (SEE DETAIL 2C-6)	ADJUST CB	ADJUST DI	CONVERT TBDI TO TBJB (SEE DETAIL 2C-4)	TEMP. STEEL PLATE COVERS FOR DRAINAGE STRUCTURES (SEE DETAIL 2C-5)	QUANTITIES FOR DRAINAGE STRUCTURES PER EACH (0' THRU 5.0')	LIN. FT. A 5.0' THRU 10.0'	LIN. FT. B 10.0' AND ABOVE (*TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B'))	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	CONCRETE TRANSITIONAL SECTION CATCH BASIN	O.T.C.B STD. 840.04 OR STD. 840.05	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATES STD. 840.16	GRATE WITH FRAME, DRIVEWAY DROP INLET STD. 840.30	G.D.I. TYPE "B" STD. 840.18 OR 840.27	G.D.I. TYPE "D" STD. 840.19 OR 840.28	T.B.D.I. STD. 840.35	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.29	M.H. FRAME AND COVER STD. 840.54	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	J.B. STD. 840.31 OR 840.32	T.B.J.B. STD. 840.34	4" CONCRETE PAVED DITCH, S.Y.	ENERGY DISSIPATOR BASIN	FLOWABLE FILL (CY)	DRAINAGE 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-																																								
	LT	1502	1503																																					
167+00	LT	1503										1			1			1																						
167+00	LT	1503	1508																																					
167+91	LT	1508										1			1	1																								
	LT	1508	1518																															1		2 @ 30"				
	LT	1508	1510																																					
169+00	LT	1510										1			1		1																							
	LT	1510	1511																																					
171+70	LT	1511										1			1		1																							
	LT	1511	1513																																					
175+52	LT	1513										1			1		1																							
	LT	1513	1515																																					
	CL	1515						1			1	1			1		1			1																				PREFAB TB BOX IN PHASE 1 & FINISH IN LATER PHASE
	CL	1515	1514																																					
175+17	CL	1514						1			1	1			1		1			1																				PREFAB TB BOX IN PHASE 1 & FINISH IN LATER PHASE
167+00	RT	1504										1			1		1																							
	RT	1504	1507																																					
167+98	RT	1507	1508																																9.8					PLUG AND FILL 30" RCP
	RT	1507										1			1	1																								
	RT	1507	1505																																					
	RT	1507	1506																																					
169+00	RT	1506										1			1			1																						
	RT	1506	1512																																				40	REMOVE 15" RCP
171+70	RT	1512										1			1			1																						
	RT	1512	1516																																					
	RT	1516										1										1	1																	
177+46	CL		1620																																				67	REMOVE 24" RCP
181+54	RT	1601	1602																																				78	REMOVE 24" RCP AND EXISTING DI
	CL	1602										1			1			1		1																				
	CL	1602	1603																																					
	LT	1603										1	4		1			1																						
	LT	1603	1604																															1		2 @ 24"				
	LT	1603	1607																																					
183+13	LT	1607										1	1.3		1			1																						
	LT	1607	1605																																					
	CL	1605										1			1			1		1																				
	LT	1607	1606																																					
184+10	LT	1606										1			1			1																						
186+80	LT	1613										1			1			1																						
	LT	1613	1615																																				64	REMOVE 24" RCP
186+90	CL	1615						1			1	1			1			1		1																				PREFAB TB BOX IN PHASE 1 & FINISH IN LATER PHASE
	CL	1615	1614																																					
187+60	CL	1614						1			1	1			1			1		1																				PREFAB TB BOX IN PHASE 1 & FINISH IN LATER PHASE
186+81	RT	1615	1616																																					
-Y7-																																								
11+25	RT	1610	1609																																					
11+18	RT	1609										1			1		1																							
	RT	1609	1608																																					
																																					2 @ 24"				
SHEET TOTALS								4			4	21	5.3		20	2	7	11		6		1	1												2	9.8	2 @ 30"			249	

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