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

PROJECT NO.	SHEET NO.
U-3465	3D-2

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

R1206446

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) SIZE 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 SIZE 12"	15"	18"	24"	30"	36"	42"	48"	R.C. PIPE CLASS III SIZE 12"	15"	18"	24"	30"	36"	42"	48"	R.C. PIPE CLASS IV SIZE 12"	15"	18"	24"	30"	36"	42"
THICKNESS OR GAUGE																				.064	.064	.064	.064	.079	.079	.109	.109																
-YA2-																																										
	CL	511	510		300.8	301.1																																12				
17+65	CL	510		304.2	301.1																																					
17+75	LT	513	512		299.6	299.8	X		32								X	X																									
17+50	LT	512		301.7	299.8																																					
18+50	LT	514	516		297.6	297.4	X																																	40			
-C12-																																										
13+09	LT	516		302.5	295.6																																					
	LT	516	515		295.6	295.7	X																																20			
13+08	LT	515		298.5	295.7																																					
	LT	516	520		295.6	295.0	X																																	80			
-L-																																										
43+80	LT	520		300.2	292.9																																					
	LT	520	517		293.9	294.2	X																																36			
44+00	LT	517		297.0	294.2																																					
43+80	LT	520	519		292.9	293.5	X																																200			
45+76	LT	519		299.7	293.5																																					
	LT	519	518		293.5	293.7	X																															32					
45+99	LT	518		296.7	293.7																																					
45+99	LT	518	639		293.7	294.7			56								X	X																									
41+50	RT	523		301.7	298.7																																					
	RT	523	524		298.7	298.2																																80					
-C12-																																										
10+60	LT	524		301.2	298.2																																					
	LT	524	526		298.2	297.9																																48					
10+27	LT	526		300.9	291.0																																					
	LT	526	527		291.0	280.5							76			X																											
	LT	526	525		291.0	291.2	X																																		40		
10+00	LT	525		300.9	291.2																																					
	LT	525	522		291.2	291.6	X																																		88		
-L-																																										
43+80	RT	522		300.1	291.6																																					
	RT	522	520		292.3	292.9	X																																	80			
	RT	522	521		291.6	292.4	X																															184					
45+70	RT	521		296.8	292.4																																					
	RT	521	602		292.4	293.0	X																															192					
43+30	LT	528								40																																
	RT	529								112																																
43+80	LT	530																																								
47+65	RT	602		296.0	293.0																																					
	RT	602	601		293.0	294.9																																52					
47+65	CL	601		297.9	294.9																																					
48+98	CL	603		297.4	294.4																																					
	CL	603	604		294.4	294.1																																36					
49+34	CL	604		297.1	294.1																																					
	CL	604	606		294.1	293.8																																60					
49+55	LT	606		296.8	293.8																																					
	LT	606	605		293.8	294.0			24																																	
	LT	606	607		293.8	293.6	X																															52					
50+06	LT	607		296.6	293.6																																					
	LT	607	608		293.6	292.8																																40					
50+42	LT	608		295.8	292.8																																					
	LT	608	610		292.8	291.1																																80					
51+21	LT	610		294.1	291.0																																					
	LT	610	609		291.0	291.1	X		20								X	X																									
SHEET TOTALS									132		152		76																									868	256	120	80	128

STATION	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 *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	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
-YA2-																																							
17+65									1								1			1	1																		
17+75																																							
17+50									1															1			1												
18+50																																						64	REMOVE 2 CB AND 2 15" RCP
-C12-																																							
13+09									1	1.9		1			1																								
13+08									1											1																			
																																		6.3					PLUG AND FILL 24" RCP
-L-																																							
43+80									1	2.3		1			1																								
44+00									1											1																			
43+80																																							
45+76									1	1.2		1		1																									
																																						82	REMOVE CB AND 15" RCP
45+99									1			1		1																									
45+99																																							TIE TO EXISTING CB
41+50									1			1		1																									
-C12-																																							
10+60									1			1		1																									
10+27									1	4.9		1		1																									
																																	1	2 @ 36"					
10+00									1	4.7		1	1																										
-L-																																							
43+80									1	3.5		1		1																									
45+70									1			1		1																									
43+30																																					0.553	40	TEMPORARY PIPE TO BE REMOVED
																																					0.553	112	TEMPORARY PIPE TO BE REMOVED
43+80									1												1	1																	TEMPORARY DI TO BE REMOVED
47+65									1			1		1																									
47+65									1			1		1			1																						
48+98									1			1		1			1																						
49+34									1			1		1			1																						
49+55									1			1		1																									
																																							REMOVE 15" RCP AT PROPOSED PIPE & 2 CB'S
50+06									1			1			1																								
50+42									1			1			1																								
51+21									1			1			1																								
SHEET TOTALS									23	18.5		18	1	12	5	1	3	2	2	2			1				1					1	6.3	2 @ 36"		1.106	298	

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