RD266446

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PROJECT NO.	SHEET NO.
U-3465	3D-5

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
-L-							
80+21	LT	813	814		283.9	283.3	X
	LT	813	829		285.5	286.3	
82+95	LT	814		288.8	283.3		
	LT	814	817		283.3	283.1	X
82+85	LT	817		288.6	283.1		
	LT	817	818		283.1	282.9	X
83+62	LT	818		288.8	282.9		
	LT	818	819		282.9	282.6	X
84+45	LT	819		289.6	282.6		
	LT	819	824		282.6	280.1	
	LT	824		282.6	279.6		
75+01	RT	807		290.9	287.9		
	RT	807	808		287.9	286.4	
76+70	RT	808		289.4	286.4		
	RT	808	809		286.4	286.1	X
77+70	RT	809		289.1	286.1		
	RT	809	811		286.1	285.8	X
78+66	RT	811		288.8	285.6		
	RT	811	806		285.6	285.3	X
	RT	811	810		285.8	286.0	X
79+38	RT	810		289.0	286.0		
82+24	RT	822		287.8	285.6		
	RT	822	815		285.6	285.5	X
82+29	RT	815		288.7	285.5		
	RT	815	816		285.5	285.3	X
82+95	RT	816		288.4	285.3		
	RT	816	820		285.3	285.1	X
83+62	RT	820		288.6	285.1		
	RT	820	821		285.1	284.8	X
84+45	RT	821		289.4	284.8		
	RT	821	828		284.8	284.2	
84+45	CL	828			284.2		
	CL	828	819		284.2	283.9	
80+21	LT	829		289.3	286.3		
-DRV1-							
11+50	RT	824	825		279.6	279.4	X
	RT	825		284.9	279.4		
	RT	825	826		279.4	279.1	X
	LT	826		284.5	279.1		
	LT	826	827		279.1	272.2	
-L-							
84+45	RT	821	902		286.4	287.0	
	LT	819	906		286.6	287.5	
85+50	RT	902		290.7	287.0		
	RT	902	901		287.0	287.1	X
	RT	901		289.3	287.1		
85+25	LT	906		290.5	287.5		
	LT	906	905		287.5	290.1	
87+76	LT	905		293.1	290.1		
	LT	905	904		290.1	290.9	
	CL	904		293.9	290.9		
SHEET TOTALS							

DRAINAGE PIPE (RCP, CSP, CAAP, HDPE, or PVC)

STATION	FROM	TO	12"	15"	18"	24"	30"	36"	42"	48"	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE
80+21	813	814												
	813	829												
82+95	814													
	814	817												
82+85	817													
	817	818												
83+62	818													
	818	819												
84+45	819													
	819	824												
	824													
75+01	807													
	807	808												
76+70	808													
	808	809												
77+70	809													
	809	811												
78+66	811													
	811	806												
	811	810												
79+38	810													
82+24	822													
	822	815		20								X	X	
82+29	815													
	815	816												
82+95	816													
	816	820												
83+62	820													
	820	821												
84+45	821													
	821	828												
84+45	828													
	828	819												
80+21	829													
-DRV1-														
11+50	824	825												
	825													
	825	826												
	826													
	826	827					32				X			
-L-														
84+45	821	902												
	819	906												
85+50	902													
	902	901		20								X	X	
	901													
85+25	906													
	906	905												
87+76	905													
	905	904												
	904													
SHEET TOTALS				40			32							

C.S. PIPE / R.C. PIPE CLASS III / R.C. PIPE CLASS IV

STATION	FROM	TO	C.S. 12" (.064)	C.S. 15" (.064)	C.S. 18" (.064)	C.S. 24" (.064)	C.S. 30" (.079)	C.S. 36" (.079)	C.S. 42" (.109)	C.S. 48" (.109)	R.C. III 12"	R.C. III 15"	R.C. III 18"	R.C. III 24"	R.C. III 30"	R.C. III 36"	R.C. III 42"	R.C. III 48"	R.C. IV 12"	R.C. IV 15"	R.C. IV 18"	R.C. IV 24"	R.C. IV 30"	R.C. IV 36"	R.C. IV 42"
80+21	813	814																				208			
	813	829																		12					
82+95	814																								
	814	817																				68			
82+85	817																								
	817	818																				68			
83+62	818																								
	818	819																				84			
84+45	819																								
	819	824																				84			
	824																								
75+01	807																								
	807	808																		168					
76+70	808																								
	808	809																		100					
77+70	809																								
	809	811																		96					
78+66	811																								
	811	806																			64				
	811	810																		72					
79+38	810																								
82+24	822																								
	822	815																							
82+29	815																								
	815	816																		68					
82+95	816																								
	816	820																		68					
83+62	820																								
	820	821																		84					
84+45	821																								
	821	828																				68			
84+45	828																								
	828	819																				24			
80+21	829																								
-DRV1-																									
11+50	824	825																					28		
	825																								
	825	826																					52		
	826																								
	826	827																							
-L-																									
84+45	821	902																		108					
	819	906																		80					
85+50	902																								
	902	901																							
	901																								
85+25	906																								
	906	905																		252					
87+76	905																								
	905	904																		40					
	904																								
SHEET TOTALS																				1148	64	604	80		

STATION	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')	*TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') 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	CONCRETE TRANSITIONAL SECTION CATCH BASIN
80+21	813	814																	
	813	829																	
82+95	814										1	0.5		1			1		
	814	817																	
82+85	817										1	0.5		1	1				
	817	818																	
83+62	818										1	0.9		1		1			
	818	819																	
84+45	819										1	2		1		1			
	819	824																	
	824					1					1								
75+01	807										1			1		1			
	807	808																	
76+70	808										1			1		1			
	808	809																	
77+70	809										1			1		1			
	809	811																	
78+66	811										1			1	1				
	811	806																	
	811	810																	
79+38	810										1			1			1		
82+24	822										1								
	822	815																	
82+29	815										1			1		1			
	815	816																	
82+95	816										1			1	1				
	816	820																	
83+62	820										1			1			1		
	820	821																	
84+45	821										1			1			1		
	821	828																	
84+45	828																		
	828	819																	
80+21	829										1			1		1			
-DRV1-																			
11+50	824	825																	
	825										1	0.5		1			1		
	825	826																	
	826										1	0.4		1		1			
	826	827																	
-L-																			
84+45	821	902																	
	819	906																	
85+50	902										1			1			1		
	902	901																	
	901										1								
85+25	906										1			1		1			
	906	905																	
87+76	905										1			1		1			
	905	904																	
	904										1			1		1			1
SHEET TOTALS						1					23	4.8		20	3	11	6		1

STATION	FROM	TO	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
80+21	813	814																			72	REMOVE 18" RCP
	813	829																				
82+95	814																					
	814	817																				
82+85	817																					
	817	818																				
83+62	818																					
	818	819																				
84+45	819																					
	819	824																				
	824																					
75+01	807																					
	807	808																				
76+70	808																					
	808	809																				
77+70	809																					
	809	811																				
78+66	811																					
	811	806																				
	811	810																				
79+38	810																					
82+24	822			1	1																	
	822	815																				
82+29	815																					
	815	816																				
82+95	816																					
	816	820																				
83+62	820																					
	820	821																				
84+45	821																					
	821	828																				REMOVE 24" RCP
84+45	828																			0.553		
	828	819																				
80+21	829																					
-DRV1-																						
11+50	824	825																				
	825																					
	825	826																				
	826																					
	826	827																2 @ 30"				
-L-																						
84+45	821	902																				
	819	906																				
85+50	902																					
	902	901																				
	901			1	1																	
85+25	906																					
	906	905																				
87+76	905																					
	905	904																				
	904																					
SHEET TOTALS				2	2													2 @ 30"		0.553	72	

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