COMPUTED BY: RWP DATE: 12/4/2017

CHECKED BY: RHT DATE: 1/18/2018

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
R-2501C	3D-4

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".

STATEWIDE
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	SIDE DRAIN 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
								THICKNESS OR GAUGE												
-L- STA 1325+29	CL	1801																		
		1801	OUT		415.8	415.3														
-DETOUR- STA 10+86	RT	T01																		
-DETOUR- STA 15+83	CL	T02																		
		T02	OUT																	
-Y- STA 11+26	CL	T03																		
		T03	OUT																	
-DETOUR- STA 27+74	CL	T04																		
		T04	OUT																	
-DETOUR- STA 30+53	CL	T05																		
		T05	OUT																	
SHEET TOTALS																				
-Y4- STA 10+55																				
SHEET 3D-1									456	188	180	92								
SHEET 3D-2									112	60	68	64				48				
SHEET 3D-3									556	92	36									
SHEET 3D-4																				
TOTALS									1124	340	284	156				48				
GRAND TOTALS									1124	340	284	156				48				

STATION	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"	48"
	THICKNESS OR GAUGE	.064	.064	.064	.064	.079	.079	.109	.109																		
-L- STA 1325+29													148														
-DETOUR- STA 10+86				40																							
-DETOUR- STA 15+83				66																							
-Y- STA 11+26				64																							
-DETOUR- STA 27+74				72																							
-DETOUR- STA 30+53				72																							
SHEET TOTALS				314									148														
-Y4- STA 10+55																											
SHEET 3D-1											372	408	276	228						488	728	392					
SHEET 3D-2													124							2488	1516		668				
SHEET 3D-3											184	436	124							736		680		272			
SHEET 3D-4				314								148															
TOTALS				314							556	992	524	228						3712	2244	1072	668	272			
GRAND TOTALS				314							556	992	524	228						3712	2244	1072	668	272			

STATION	** R.C. PIPE (CLASS V)	**** RC PIPE CULVERTS, CONTRACTOR DESIGN	**** RC PIPE CULVERTS, CONTRACTOR DESIGN	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 "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 STD. 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 GRATES 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. TYPE "D" STD. 840.19 OR 840.28	G.D.I. FRAME WITH GRATE STD. 840.20	G.D.I. FRAME WITH TWO GRATES STD. 840.29	G.D.I. (N.S.) FRAME WITH GRATE STD. 840.24	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	BERM DRAIN OUTLET (SY) STD. 858.10 AND 850.11	FLOWABLE FILL (CY)	SIDE DRAIN 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- STA 1325+29																											
-DETOUR- STA 10+86																										40	TEMPORARY PIPE
-DETOUR- STA 15+83																										66	TEMPORARY PIPE
-Y- STA 11+26																										64	TEMPORARY PIPE
-DETOUR- STA 27+74																										72	TEMPORARY PIPE
-DETOUR- STA 30+53																										72	TEMPORARY PIPE
SHEET TOTALS																										314	
-Y4- STA 10+55																											
SHEET 3D-1						10	6.3									10			10						32		0.4465	996	
SHEET 3D-2						29	0.9		28	2	12	14			1	1												636	
SHEET 3D-3						15			12	1	5	6	3		3	3								93				615	
SHEET 3D-4																												314	
TOTALS						54	7.2		40	3	17	20	3		4	4		10			10			93	32		0.4465	2561	
GRAND TOTALS						54	7.2		40	3	17	20	3		4	4		10			10			93	32		0.4465	2561	

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