COMPUTED BY: B. FOWLER DATE: 5/8/14
CHECKED BY: J JOHNSON DATE: 7/23/14

PROJECT REFERENCE NO.	SHEET NO.
I-5508	3-D

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATEWIDE
LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)

NOTE: Invert Elevations are for Bid Purposes only and shall not be used for project construction stakeout.
See "Standard Specifications For Roads and Structures, Section 300–5".

STATION / SIZE / THICKNESS OR GAUGE / LINE "EL" USED FOR STA.'S	LOCATION (LT,RT, OR CL)	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL
324+52.41	MED	0401					
328+82.78	MED	0402					
328+78.80	RT	0403		1884.30	1873.45		
328+77.11	RT	0403	0404			1872.50	
333+00.07	MED	0405		1886.24	1884.32		
332+99.43	LT	0405	0406				
332+99.43	LT	0406		1881.60	1879.68		
331+87.01	LT	0406	0407			1878.71	
331+87.01	LT	0407		1880.63	1878.46		
331+31.77	LT	0407	0408			1877.08	
331+31.77	LT	0408		1879.60	1877.08		
333+99.96	MED	0409		1887.10	1885.18		
333+99.96	LT	0409	0410			1882.81	
334+93.93	LT	0411		1884.51	1882.00		
334+94.03	LT	0411	0412				
334+94.03	LT	0412					
334+94.34	RT	0413		1886.10	1878.50		
334+94.42	RT	0413	0414			1877.75	
336+54.25	MED	0501		1888.00	1886.08		
336+21.11	MED	0501	0502			1885.90	
336+21.11	MED	0502		1888.02	1885.90		
336+01.78	MED	0502	0503			1885.80	
336+01.78	MED	0503		1888.01	1885.80		
335+75.27	MED	0503	0504			1885.70	
335+75.27	MED	0504		1888.00	1885.70		
335+73.08	MED	0504	0505			1885.60	
335+73.08	MED	0505		1888.00	1885.60		
335+73.08	RT	0505	0506			1885.40	
337+52.77	MED	0507		1887.80	1885.88		
338+58.67	MED	0507	0508			1885.00	
338+58.67	MED	0508		1887.70	1884.90		
338+61.02	RT	0508	0509			1884.30	
339+47.99	MED	0510		1887.61	1885.69		
338+58.67	MED	0510	0508			1885.00	
340+27.83	LT	0511		1890.12	1886.51		
342+20.02	RT	0512		1885.57	1880.40		
341+27.58	RT	0512	0513				
341+27.58	RT	0513		1886.09	1880.00		
340+26.61	RT	0513	0514				
340+26.61	RT	0514		1885.71	1878.90		
340+25.26	RT	0514	0515			1877.60	
344+35.65	MED	0516					
TOTALS:							
SAY:							

STATION	SIDE DRAIN 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	42" .109	48" .109	R.C. PIPE (CLASS III) 15"	18"	24"	30"	36"	42"	48"	R.C. PIPE (CLASS IV) 12"	15"	18"	24"	30"	36"	42"	48"
324+52.41																																		
328+82.78																																		
328+78.80																																		
328+77.11																				32														
333+00.07																																		
332+99.43																												56						
332+99.43																																		
331+87.01																				108														
331+87.01																																		
331+31.77																				52														
331+31.77																																		
333+99.96																																		
333+99.96																												56						
334+93.93																																		
334+94.03															12																			
334+94.03																																		
334+94.34																																		
334+94.42																					16													
336+54.25																																		
336+21.11																												36						
336+21.11																																		
336+01.78																												16						
336+01.78																																		
335+75.27																												24						
335+75.27																																		
335+73.08																													4					
335+73.08																																		
335+73.08																													44					
337+52.77																																		
338+58.67																												104						
338+58.67																																		
338+61.02															48																			
339+47.99																																		
338+58.67																												84						
340+27.83																																		
342+20.02																																		
341+27.58																					88													
341+27.58																																		
340+26.61																					92													
340+26.61																																		
340+25.26																	28																	
344+35.65																																		
TOTALS:															60		28				192	196						376	48					
SAY:																																		

STATION	**" R. C. PIPE (CLASS V)	**" R. C. PIPE CULVERTS, CONTRACTOR DESIGN PIPE	**" R. C. PIPE CULVERTS, CONTRACTOR DESIGN PIPE	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	ENDWALLS STD. 838.01, STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YDS. R.C.P.	C.S.P.	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'	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 CATCH BASIN	DROP INLET
324+52.41																	
328+82.78																	
328+78.80								1	5	0.85							
328+77.11																	
333+00.07								1									
332+99.43																	
332+99.43								1									
331+87.01																	
331+87.01								1									
331+31.77																	
331+31.77								1									
333+99.96								1									
333+99.96																	
334+93.93								1									
334+94.03																	
334+94.03																	
334+94.34								1	2.6								
334+94.42																	
336+54.25								1									
336+21.11																	
336+21.11								1									
336+01.78																	
336+01.78								1									
335+75.27																	
335+75.27								1									
335+73.08																	
335+73.08								1									
335+73.08																	
337+52.77								1									
338+58.67																	
338+58.67								1									
338+61.02																	
339+47.99								1									
338+58.67																	
340+27.83																	
342+20.02								1	0.17								
341+27.58																	
341+27.58								1	1.09								
340+26.61																	
340+26.61								1	1.81								
340+25.26																	
344+35.65																	
TOTALS:								19	10.67	0.85							
SAY:									12								

STATION	G.D.I. TYPE "B" STD. 840.18 OR 840.27	G.D.I. FRAME WITH TWO GRATES STD. 840.22	G.D.I. FRAME WITH TWO GRATES STD. 840.20	ADJUST G.D.I.	TEMPORARY STEEL PLATE COVERS FOR MASONARY DRAINAGE STRUCTURE	T.B.2GI. STD. 840.35		CONC. COLLARS CL. "B" C.Y. STD 840.72	FLOWABLE FILL MATERIAL C.Y.'S	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	PIPE REMOVAL LIN.FT.	REMARKS
324+52.41					1							
328+82.78					1							
328+78.80	1	1										
328+77.11											40'	REMOVE DI & 15" CMP
333+00.07			1			1						
332+99.43												
332+99.43	1	1										
331+87.01												
331+87.01	1	1										
331+31.77												
331+31.77	1	1										
333+99.96			1			1						
333+99.96												
334+93.93	1	1										
334+94.03												REMOVE EXISTING DI
334+94.03								0.4465				
334+94.34	1	1										
334+94.42											40'	REMOVE DI & 15" CMP
336+54.25			1			1			.69			TEMPORARY "TB" TYPE "D"
336+21.11									1.62			TEMPORARY 15" RCP–IV
336+21.11			1			1			.69			TEMPORARY "TB" TYPE "D"
336+01.78									0.72			TEMPORARY 15" RCP–IV
336+01.78			1			1			.69			TEMPORARY "TB" TYPE "D"
335+75.27									1.08			TEMPORARY 15" RCP–IV
335+75.27			1			1			.69			TEMPORARY "TB" TYPE "D"
335+73.08									0.26			TEMPORARY 18" RCP–IV
335+73.08			1			1			.69			TEMPORARY "TB" TYPE "D"
335+73.08									2.86			TEMPORARY 18" RCP–IV
337+52.77			1			1			.69			TEMPORARY "TB" TYPE "D"
338+58.67									4.68			TEMPORARY 15" RCP–IV
338+58.67			1			1			.69			TEMPORARY "TB" TYPE "D"
338+61.02									3.12			TEMPORARY 18" CSP
339+47.99			1			1			.69			TEMPORARY "TB" TYPE "D"
338+58.67									3.78			TEMPORARY 15" RCP–IV
340+27.83				1								ADJUST EXIST 2GI
342+20.02			1			1						
341+27.58												
341+27.58			1			1						
340+26.61												
340+26.61			1			1						
340+25.26												
344+35.65					1							
TOTALS:	6	6	13	1	3	13		0.4465	23.64		80	
SAY:								0.447	24			

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.)	GRATED DROP INLET (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

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