PROJECT REFERENCE NO.	SHEET NO.
HA-0004	3D

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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

STATION / SIZE / THICKNESS OR GAUGE	LOCATION (LT,RT, OR CL)	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	CLASS IV R.C. PIPE (UNLESS NOTED OTHERWISE) 12"	15"	18"	24"	30"	36"	42"	48"	BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE) 12"	15"	18"	24"		30"		36"		42"		48"	
																.064	.064	.064	.064		.079		.079		.109		.109	
-DRWY- 15+93.82	LT	403			2134.50																							
		403	402		2134.50	2132.50					82'																	
-DRWY- 15+18.46	RT	402		2136.25	2132.50																							
		402	401		2132.50	2127.08					89'																	
-DRWY- 14+29.71	RT	401			2127.08																							
-Y1- 14+27.68	LT	501		2163.43	2159.64				8'																			
		501	502		2159.64	2154.63			100'																			
-Y1- 13+25.04	LT	502		2158.40	2154.63																							
		502	503		2154.63	2154.50			20'																			
-Y1- 13+05.09	LT	503		2158.00	2154.50																							
-Y1- 11+14.92	LT	504																										
-L- 24+48.33	CL	505		2150.70	2148.00																							
		505	506		2148.00	2147.92			4'																			
-L- 24+41.58	CL	506			2147.92																							
-Y1- 14+34.45	RT	511		2162.60	2159.30																							
		511	510		2162.50	EXIST.			133'																			
-Y1- 12+94.19	RT	510		EXIST.	EXIST.																							
-Y1- 11+61.73	RT	519		2153.45	2150.80																							
		519	507		2150.80	2148.00			70'																			
-Y1- 10+90.06	RT	507		2151.87	2148.00																							
		507	508		2148.00	2147.80			49'																			
-L- 23+10.10	RT	508			2147.80																							
TOTALS									384'		171'																	

STATION / SIZE / THICKNESS OR GAUGE	CLASS III R.C. PIPE OR ALUMINIZED C.S. PIPE, TYPE IR OR HDPE PIPE, TYPE S OR D 12"	15"	18"	24"	30"	36"	42"	48"	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	24" 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 * 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	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME & GRATE 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. 840.22	G.D.I. FRAME WITH TWO GRATES STD. 840.22	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	T.B.D.I. STD. 840.36	STEEL FRAME WITH TWO GRATES STD. 840.37	M.H. FRAME & COVER STD. 840.54			CORR. STEEL ELBOWS NO. & SIZE	CONC. COLLARS CL. "B" C.Y. STD. 840.72	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	PIPE REMOVAL LIN.FT.	REMARKS
-DRWY- 15+93.82																																									GROOVE END
-DRWY- 15+18.46																1			1																						
-DRWY- 14+29.71																																									
-Y1- 14+27.68																1		1																		0.4				
-Y1- 13+25.04																1		1																							
-Y1- 13+05.09																											1			1											
-Y1- 11+14.92					11'							2.8																													
-L- 24+48.33																												1	1												
-L- 24+41.58																											1			1											
-Y1- 14+34.45																1			1																						
-Y1- 12+94.19																1			1																						
-Y1- 11+61.73																1			1																						
-Y1- 10+90.06																1			1																						
-L- 23+10.10																																									
TOTALS					11'							2.8				7		2	5								2	1	1	2					0.4				

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

4/04/06

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