RA-1553

COMPUTED BY: BNE DATE: 2/22/2017

CHECKED BY: JGD DATE: 2/22/2017

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
R-2707C	3D-13

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout.

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	MIN. REQUIRED SLOPE %	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	C.S. PIPE THICKNESS OR GAUGE	12"	15"	18"	24"	30"	36"	42"	48"
																						.064	.064	.064	.064	.079	.079	.109	.109
33+00 Y14-	RT	2230		920.5																									
		2230	2231		917.5	917.2				20																			
33+28 -Y14-	LT	2232		921.9																									
		2232	2233		918.9	915.0				48																			
34+94 -Y14-	LT	2234		927.6																									
		2234	2235		924.6	922.7																							
34+58 -Y14-	LT	2235		925.7																									
		2235	2237		922.7	919.9																							
14+85 -Y14RPA-	LT	2236																											
		2236	2237		919.5	919.2																							
14+85 -Y14RPA-	RT	2237		924.9																									
		2237	2238		919.2	912.0						44																	
2239 OMITTED																													
612+25 -L-	RT	2240		960.6																									
		2240	2241		955.5	954.9																							
612+25 -L-	LT	2241		960.6																									
		2241	2242		954.9	930.5				128																			
616+00 -L-	CL	2243		948.3																									
		2243	2244		945.6	922.5																	172						
620+50 -L-	CL	2245		933.4																									
		2245	2302		930.6	924.0																							
622+50 -L-	LT	2301		929.8																									
		2301	2302		927.0	924.0																							
622+50 -L-	CL	2302		926.8																									
		2302	2305		924.0	909.0																							
626+00 -L-	LT	2303		915.7																									
		2303	2305		913.0	909.0																							
626+00 -L-	RT	2304		912.2																									
		2304	2305		909.4	909.0																							
626+00 -L-	CL	2305		915.2																									
		2305	2308		908.7	896.3																							
630+00 -L-	LT	2306		903.5																									
		2306	2308		900.8	896.6																							
630+00 -L-	RT	2307		899.8																									
		2307	2308		987.0	896.6																							
630+00 -L-	CL	2308		902.0																									
		2308	2402		895.8	885.7																							
634+00 -L-	LT	2401		891.7																									
		2401	2402		889.0	886.5																							
634+00 -L-	CL	2402		890.5																									
		2402	2403		885.7	884.1	0.8																						
634+00 -L-	RT	2403		888.9																									
		2403	2404		884.1	881.0																							
SHEET TOTALS										196		44											172						

| STATION | R.C. PIPE CLASS III 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | R.C. PIPE CLASS IV 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | 24" R.C. PIPE (CLASS V) | 30" R.C. PIPE (CLASS V) | 36" R.C. PIPE (CLASS V) | 42" R.C. PIPE CULVERTS, CONTRACTOR DESIGN | ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CU. YARDS 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 DROP INLET | CATCH BASIN | D.I. STD. 840.14 OR STD. 840.15 | D.I. FRAME AND 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. (W.S. FLAT) FRAME W/ 2 GRATES STD. 840.20 | G.D.I. (W.S. SAG) FRAME W/ GRATE STD. 840.22 | G.D.I. (W.S. SAG) FRAME W/ 2 GRATES STD. 840.22 | G.D.I. (N.S. SAG) FRAME W/ 2 GRATES STD. 840.24 | G.D.I. (N.S. FLAT) FRAME W/ 2 GRATES STD. 840.29 | T.B.D.I. STD. 840.35 | T.B.J.B. STD. 840.34 | J.B. STD. 840.31 OR 840.32 | M.H. FRAME AND COVER STD. 840.54 | CONVERT EXISTING C.B. TO T.B.J.B. | 1" STEEL COVER | CONCRETE ENDWALL AND SLUICE GATE STD. 838.02 | 8" SLUICE GATE | 15" SIDE DRAIN PIPE ELBOW | 18" SIDE DRAIN PIPE ELBOW | 24" SIDE DRAIN PIPE ELBOW | 30" SIDE DRAIN PIPE ELBOW | 36" SIDE DRAIN PIPE ELBOW | BERM DITCH OUTLET STD. 850.10 | BERM DITCH OUTLET STD. 850.11 | CONCRETE AND BRICK PIPE PLUG STD. 840.71 | CONC. COLLARS CL. "B" C.Y. STD. 840.72 | PIPE REMOVAL LIN. FT. | REMARKS |
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