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CHECKED BY: _____ DATE: _____

PROJECT NO.	SHEET NO.
B-4616	3D-1

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".

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

LINE & STATION / SIZE / THICKNESS OR GAUGE	OFFSET	STRUCTURE NUMBER FROM	STRUCTURE NUMBER TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %	Drainage 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	DO NOT USE PVC
-Y- 14+25	52 LT	0401	0402		175.4	175.0														
-Y- 14+28	26 LT	0402		183.7																
-Y- 14+29	31 RT	0403		183.7																
		0403	0404		174.3	174.1														
-L- 24+00	18 LT	0405		193.8																
		0405	0406		191.1	190.6														
-L- 24+00	18 RT	0406		193.8																
		0406	0407		190.6	177.4	0.9													
-DRV1- 10+53	0 CL	0408																		
-DRV1- 11+14	1 RT	0409																		
-L- 30+20	15 LT	0501		211.9																
		0501	0502		209.2	208.7														
-L- 30+20	15 RT	0502		211.9																
		0502	0503		208.7	178.8														
-L- 33+00	15 LT	0504		211.7																
		0504	0505		208.9	208.4														
-L- 33+00	15 RT	0505		211.7																
		0505	0506		208.4	179.1														
-L- 37+35	115 RT	0507	0508		174.2	173.1														
-L- 37+37	85 RT	0508		175.8																
		0508	0509		173.1	172.8														
-L- 40+00	18 RT	0601		189.7																
		0601	0602		186.9	186.4														
-L- 40+00	18 LT	0602		189.7																
		0602	0603		186.4	175.7	1.1													
-DRV3- 14+23	17 RT	0604	0605		173.0	172.8	1.3													
-L- 41+99	42 RT	0607	0608		177.1	173.7	0.5													
-DRV5- 10+15	0 CL	0609																		
-L- 42+96	38 RT	0610																		
-L- 44+03	34 RT	0611																		
-L- 45+53	31 RT	0612																		
-Y3- 17+24	33 RT	0701																		
-Y3- 18+31	37 RT	0702																		
-Y3- 18+53	39 LT	0703		171.3																
		0703	0704		165.6	164.4														
-Y4- 15+84	47 RT	0705	0706		168.9	168.2														
-Y3- 12+21	28 LT	0707																		
-L- 37+57	34 RT																			
-L- 20+82	33 RT																			
-DRV1- 10+36	18 LT																			
-L- 45+51	26 RT																			
-L- 44+05	26 RT																			
SHEET TOTALS																				

| LINE & STATION / SIZE / THICKNESS OR GAUGE | C. S. PIPE 12 | 15 | 18 | 24 | 30 | 36 | 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 | R. C. PIPE CLASS V 12 | 15 | 18 | 24 | 30 | 36 | 42 | 48 | 24" WELDED STEEL PIPE CULVERTS, CONTRACTOR DESIGN | 15" SIDE DRAIN PIPE | 18" SIDE DRAIN PIPE | 24" SIDE DRAIN PIPE | | ENDWALLS STD. 826.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CY | REINFORCED ENDWALLS CY | QUANTITIES FOR DRAINAGE STRUCTURES NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B) 0' THRU 5' EACH | A 5' THRU 10' LIN. FT. | B 10' AND ABOVE LIN. FT. | C.B. STD. 840.01 OR STD. 840.02 | FRAME, GRATES, AND HOOD STD. 840.03 GRATE TYPE E | F | G | CONCRETE TRANSITIONAL SECTION D.I. STD. 852.04 OR STD. 852.06 | C.B. STD. 852.05 | G.D.I. TYPE "A" STD. 840.17 OR STD. 840.26 | G.D.I. TYPE "B" STD. 840.18 OR STD. 840.27 | G.D.I. TYPE "D" STD. 840.19 OR STD. 840.28 | G.D.I. (W.S. SAG) FRAME W/ 2 GRATES STD. 840.22 | G.D.I. (N.S. SAG) FRAME W/ GRATE STD. 840.24 | G.D.I. (N.S. SAG) FRAME W/ 2 GRATES STD. 840.24 | G.D.I. (N.S. FLAT) FRAME W/ GRATE STD. 840.29 | G.D.I. (N.S. FLAT) FRAME W/ 2 GRATES STD. 840.29 | ANGLED VANE GRATES AND FRAMES STD. 840.33 | T.B.J.B. STD. 840.34 | T.B.D.I. STD. 840.35 OR STD. 840.46 | T.B.D.I. FOR STEEL GRATES STD. 840.36 | STEEL FRAME WITH TWO GRATES STD. 840.37 | 15" DRAINAGE PIPE ELBOW | 15" C.S. ELBOW | FLOWABLE FILL CY | CONCRETE COLLARS CL. "B" STD. 840.72 CY | PIPE REMOVAL LIN. FT. | REMARKS |
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