1612LP-M70196

COMPUTED BY: URS DATE: 02/15/2017

CHECKED BY: NJD DATE: 02/15/2017

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
R-3100B	3D-6

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	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) SIZE: 15	18	24	30	THICKNESS OR GAUGE: DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	DO NOT USE PVC
		0923	0925		991.6	991.5										
Y5 13+32	29 RT	0924		994.9												
		0924	0914		991.5	991.5										
Y6 11+29	2 LT	0925		995.4												
		0925	0921		991.5	991.3										
L 81+40	56 LT	0926		988.2												
		0926	0903		984.4	984.1										
L 92+25	2 RT	1001		1006.1												
		1001	1002		1002.9	1002.7										
L 92+25	40 RT	1002		1005.9												
		1002	0919		1002.7	1000.6										
L 94+00	63 LT	1003		1008.6												
		1003	1004		1007.1	1005.1										
L 93+65	3 LT	1004		1008.1												
		1004	1005		1004.6	1003.7										
L 93+65	39 RT	1005		1007.0												
		1005	1006		1003.7	1003.0			28							
L 97+20	40 RT	1007		1007.4												
		1007	1008		1004.4	1002.2										
L 99+10	40 RT	1008		1005.2												
		1008	1009		1002.2	998.7										
L 101+18	40 RT	1009		1001.7												
		1009	1010		998.7	995.0		40								
L 99+10	39 LT	1011		1005.2												
		1011	1012		1002.2	999.2										
L 100+90	39 LT	1012		1002.2												
		1012	1013		999.2	995.4										
L 103+45	39 LT	1013		998.4												
		1013	1101		995.4	994.2										
L 103+45	40 RT	1014		998.4												
		1014	1102		995.4	994.2										
L 102+64	62 LT	1050						24								
L 104+14	67 LT	1051						20								
L 104+14	64 LT	1052						20								
L 105+00	39 LT	1101		997.2												
		1101	1108		994.2	993.8										
L 105+00	40 RT	1102		997.2												
		1102	1113		994.2	993.8										
L 112+12	60 LT	1103		1000.2												
		1103	1104		998.0	997.8		20								
L 112+10	39 LT	1104		1001.5												
		1104	1105		997.8	996.9										
L 110+30	39 LT	1105		999.9												
		1105	1106		996.9	995.4										
L 108+50	39 LT	1106		998.4												
		1106	1107		995.4	994.6	0.4									
L 107+30	39 LT	1107		997.6												
		1107	1108		994.3	993.5	0.4									
L 105+70	39 LT	1108		997.0												
		1108	1113		993.0	992.3	0.9									
				SHEET TOTALS				124	28							

Drainage Pipe (RCP, CSP, CAAP, HDPE, or PVC) SIZE: 15	18	24	30	C. S. PIPE THICKNESS OR GAUGE: .064	.064	.064	.079	30	.109	60	R. C. PIPE CLASS III 15	18	24	30	R. C. PIPE CLASS IV 15	18	24	30	ENDWALLS STD. 838.11 (UNLESS NOTED OTHERWISE) CY	REINFORCED ENDWALLS CY	DRAINAGE STRUCTURE MASONRY CY
																24					
																72					
												36									
											44										
															36						
															184						
																72					
																40					
															188						
															208						
															180						
															256						
															156						
															156						
															68						
															68						
															180						
															180						
															120						
																160					
																	76				
											44	36			1980	368	76				

QUANTITIES FOR DRAINAGE STRUCTURES NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B) A: 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. 852.06 OR STD. 852.06 C.B. STD. 852.05	OPEN THROAT C.B. STD. 840.04 OR STD. 840.05	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 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. 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. FLAT) FRAME W/ 2 GRATES STD. 840.29	J.B. STD. 840.31 OR STD. 840.32	T.B.D.I. STD. 840.35	M.H. STD. 840.51, STD. 840.52, OR STD. 840.53	M.H. FRAME AND COVER STD. 840.54	15" PIPE END SECTION	CONVERT EXISTING D.I. TO J.B. W/MH	15" C.S. ELBOW	18" C.S. ELBOW	24" C.S. ELBOW	BERM DITCH OUTLET STD. 850.10 (PER EACH)	BERM DITCH OUTLET STD. 850.11 (PER EACH)	PREFORMED SCOUR HOLE (PER EACH)	DRAINAGE INLET TRANSITIONAL GUTTER SECT. EA	FLOWABLE FILL CY	CONCRETE AND BRICK PIPE PLUG STD. 840.71 CY	PIPE REMOVAL LIN. FT.	REMARKS
		1			1																												
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		1										1		1																1			
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		1				1																											Open end
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		22			17	1	9	7	1		3	3		2		2														2			

ABBREVIATIONS

C.A.A.	CORRUGATED ALUMINIUM ALLOY
C.B.	CATCH BASIN
C.S.	CORRUGATED STEEL
D.I.	DROP INLET
G.D.I.	GRATED DROP INLET
H.D.P.E.	HIGH DENSITY POLYETHYLENE
J.B.	JUNCTION BOX
M.H.	MANHOLE
N.S.	NARROW SLOT
P.V.C.	POLYVINYL CHLORIDE
R.C.	REINFORCED CONCRETE
T.B.D.I.	TRAFFIC BEARING DROP INLET
T.B.J.B.	TRAFFIC BEARING JUNCTION BOX
W.S.	WIDE SLOT