RD266193

COMPUTED BY: L. JAH DATE: 01/12/2015

CHECKED BY: A.K. WHITE DATE: 11/16/2015

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
U-3308	3D-5

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 %
			0819	0820		357.7	355.9	
Y7 10+82	17	LT	0820		359.8			
			0820	0842		353.7	349.8	0.7
LALT 41+01	7	RT	0821		359.2			
			0821	0820		356.1	356.0	
LALT 43+13	7	RT	0822		354.4			
			0822	0839		349.8	349.7	
Y8 11+25	10	LT	0823		361.5			
			0823	0824		358.3	356.7	
Y8 11+09	10	RT	0824		359.8			
			0824	0826		356.7	349.7	
Y8 10+14	10	RT	0826		352.8			
			0826	0828		349.7	349.4	
LALT 42+50	35	LT	0827		353.9			
			0827	0842		345.8	345.6	
LALT 43+16	35	LT	0828		352.5			
			0828	0905		349.4	347.7	0.4
Y9 10+92	14	LT	0829		355.2			
			0829	0839		351.8	350.5	0.3
Y9 10+93	14	RT	0830		355.4			
			0830	0829		352.0	351.8	
LALT 43+35	7	RT	0831		353.0			
			0831	0822		349.9	349.8	
Y9 11+35	14	RT	0832		358.7			
			0832	0830		355.5	352.2	0.6
LALT 42+53	51	RT	0833		357.4			
			0833	0830		355.2	352.2	
LALT 42+48	52	LT	0834		352.8			
			0834	0827		345.9	345.8	
LALT 38+65	35	LT	0835		367.3			
			0835	0803		361.9	361.2	0.3
LALT 40+00	35	RT	0838		362.9			
			0838	0820		357.5	354.4	0.5
Y7 11+63	16	RT	0843		364.4			
			0843	0816		362.1	362.1	
Y11 10+78	27	RT	0902		350.4			
			0902	0903		348.2	347.1	
Y11 10+76	14	RT	0903		350.3			
			0903	0904		347.1	347.0	
Y11 10+67	16	LT	0904		350.2			
LALT 44+37	35	LT	0905		350.8			
			0905	0909		346.5	346.4	
Y10 10+85	10	LT	0906		355.3			
			0906	0907		352.1	349.1	
Y10 10+55	10	LT	0907		352.2			
			0907	0908		349.1	348.5	
Y10 10+50	10	RT	0908		351.6			
SHEET TOTALS								

FROM	TO	Drainage Pipe (RCP, CSP, CAAP, HDPE, or PVC) 15	18	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	DO NOT USE PVC	C. S. PIPE 12 (.064)	15 (.064)	18 (.064)	R. C. PIPE CLASS IV 15	18	24	30	36	42	48	R. C. PIPE CLASS V 12	15	18	24	30	48	BIT COAT CORRUGATED METAL PIPE 36
0819	0820														24												
0820																											
0820	0842																	156								
0821																											
0821	0820											28													
0822																											
0822	0839											28													
0823																											
0823	0824											24													
0824																											
0824	0826											96													
0826																											
0826	0828											28													
0827																											
0827	0842																		68							
0828																											
0828	0905											120													
0829																											
0829	0839												28												
0830																											
0830	0829												28												
0831																											
0831	0822											20													
0832																											
0832	0830											40													
0833																											
0833	0830											20													
0834																											
0834	0827																		16							
0835																											
0835	0803																	40								
0838																											
0838	0820																	100								
0843																											
0843	0816																				16					
0902																											
0902	0903											16													
0903																											
0903	0904											28													
0904																											
0905																											
0905	0909													40											
0906																											
0906	0907											28													
0907																											
0907	0908											20													
0908																											
SHEET TOTALS												496	56	64			296	84		16					

FROM	TO	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CY	REINFORCED ENDWALLS CY	DRAINAGE STRUCTURE MASONRY CY	QUANTITIES FOR DRAINAGE STRUCTURES 0' THRU 5' EACH	5' THRU 10' (A) LIN. FT.	10' AND ABOVE (B) 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	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	T.B.D.I. 840.36	T.B.D.I. FRAME AND GRATE 840.37	DRIVEWAY D.I. STD. 840.30	FRAME W/ GRATE FOR DRIVEWAY STD. 840.30	J.B. STD. 840.31 OR STD. 840.32	T.B.J.B. STD. 840.34	M.H. FRAME AND COVER STD. 840.54	CONVERT EXISTING C.B. TO J.B.	CONVERT EXISTING D.I. TO J.B.	CS PIPE ELBOWS NO. & SIZE	FLOWABLE FILL CY	CONCRETE COLLARS CL. "B" STD. 840.72 CY	CONCRETE AND BRICK PIPE PLUG STD. 840.71 CY	PIPE REMOVAL LIN. FT.	REMARKS
0819	0820																													
0820					1	1.1		1	1																					
0820	0842																													
0821					1							1		1	1															
0821	0820																													
0822					1							1		1	1															
0822	0839																													
0823					1			1		1																					
0823	0824																													
0824					1			1			1																				
0824	0826																													
0826					1			1	1																						
0826	0828																													
0827					1	3.1		1			1																				
0827	0842																													
0828					1			1			1																				
0828	0905																													
0829					1			1		1																					
0829	0839																													
0830					1			1			1																				
0830	0829																													
0831					1							1		1	1															
0831	0822																													
0832					1			1			1																				
0832	0830																													
0833					1									1	1															
0833	0830																													
0834					1	1.9								1	1															
0834	0827																													
0835					1	0.4		1			1																				
0835	0803																													
0838					1	0.4		1		1																					
0838	0820																													
0843					1			1			1																				
0843	0816																													
0902					1									1	1															
0902	0903																													
0903					1			1	1																						
0903	0904																													
0904					1			1	1																						
0905					1			1			1																				
0905	0909																													
0906					1			1		1																					
0906	0907																													
0907					1			1		1																					
0907	0908																													
0908					1			1			1																				
SHEET TOTALS					24	6.9		18	4	5	9	3		6	6															

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

NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B)