6/20/00

COMPUTED BY: C.M.W DATE: AUGUST 14, 2004
CHECKED BY: T.A.M. DATE: AUGUST 14, 2004

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-977A	3-D

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 1200 mm & UNDER)

Structures, elevations and Class III R.C. Pipe (unless noted otherwise)

STATION	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	R.C. 300	R.C. 375	R.C. 450	R.C. 600	R.C. 750	R.C. 900	R.C. 1050	R.C. 1200
-LREV- 28+78 RT	94	94a		477.20	476.50									
-LREV- 29+52 LT	95	96		497.00	497.36			13.2						
-LREV- 29+65 CL	96		498.17	497.36										
-LREV- 29+65 RT	96	97		497.36	497.82			22.8						
-LREV- 29+65 RT	97		498.63	497.82										
-LREV- 30+57 LT	98	99		498.20	500.47									
-LREV- 30+70 CL	99		501.54	500.47										
-LREV- 30+70 RT	99	100		500.47	501.10				22.8					
-LREV- 30+70 RT	100		501.99	501.10										
-LREV- 30+70 RT	100	101		501.10	504.54									
-LREV- 30+71 LT	102	103		–	–									
-LREV- 33+05 CL	104	105		–	–									
-LREV- 33+10 RT	106	107		–	–									
-LREV- 33+18 RT	108	109		505.90	504.48					30.0				
-LREV- 33+35 CL	109		505.55	504.48										
-LREV- 33+35 LT	109	110		504.48	504.20					9.60				
-LREV- 33+30 LT	111	112		–	–									
-LREV- 34+62 RT	113	114		480.00	478.00									
-LREV- 34+55 RT	115	116		483.20	483.07				24.0					
-LREV- 34+77 RT	116		484.35	483.07										
-LREV- 34+77 RT	116	117		483.07	481.11									
-LREV- 34+97 RT	117		481.85	481.11										
-LREV- 34+97 RT	117	118		481.11	473.50									
-LREV- 35+32 RT	119	120		473.50	475.96									
-LREV- 35+41 RT	120		476.85	475.96										
-LREV- 35+41 RT	120	122		475.96	481.56									
-LREV- 35+51 RT	122		482.45	481.56										
-LREV- 35+51 RT	122	121		481.56	503.78									
-LREV- 35+51 RT	121		504.69	503.78										
-LREV- 35+51 RT	122	123		481.56	482.80									
-LREV- 34+60 LT	124	125		492.00	487.11									
-LREV- 34+82 LT	125		487.85	487.11										
-LREV- 34+82 LT	125	126		487.11	470.00									
-LREV- 35+12 LT	127	128		469.50	479.40									
-LREV- 35+90 LT	128		481.00	479.40										
-LREV- 35+90 LT	128	129		479.40	502.65									
SHEET TOTAL								36.0	46.8	39.6				

Bituminous Coated C.S. Pipe Type B (unless noted otherwise) — size / thickness or gauge

STATION	300 / 1.63	400 / 1.63	450 / 1.63	600 / 1.63	600 / 1.63 (UNCOATED)	600 / 2.01	800 / 2.01	800	900 / 2.01	900	1000 / 2.77	1000	1200 / 2.77	1200 / 3.51
-LREV- 30+57 LT				18.0										
-LREV- 30+70 RT (100–101)		13.2												
-LREV- 30+71 LT							18.0							
-LREV- 33+30 LT				13.2										
-LREV- 34+77 RT (116–117)			21.6											
-LREV- 34+97 RT (117–118)			31.2											
-LREV- 35+32 RT			10.8											
-LREV- 35+41 RT (120–122)			13.2											
-LREV- 35+51 RT (122–121)		52.8												
-LREV- 35+51 RT (122–123)			30.0											
-LREV- 34+60 LT			25.2											
-LREV- 34+82 LT (125–126)			42.0											
-LREV- 35+12 LT							84.0							
-LREV- 35+90 LT (128–129)		51.6												
SHEET TOTAL		117.6	174.0	31.2			102.0							

Other pipes, endwalls, quantities and frames

STATION	150mm PERFORATED HDPE PIPE	600 BORE AND JACK	375mm SIDE DRAIN PIPE	450mm SIDE DRAIN PIPE	600mm SIDE DRAIN PIPE	900mm SIDE DRAIN PIPE	MODIFIED CONCRETE FLUME (SEE SHEET 2-P)	ENDWALLS STD. 838.01 OR STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) R.C.P. (CM)	ENDWALLS C.S.P. (CM)	QUANTITIES: STRUCTURES PER EACH (0 THRU 1.50)	FOR DRAINAGE *TOTAL M FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL. 'B') METERS A 1.50 THRU 3.00	METERS B 3.00 AND ABOVE	375 x 375 x 375 TEE	C.B. STD. 840.01 OR 840.02	FRAME, GRATES, AND HOOD STD. 840.03 TYPE OF GRATE E	F	G
-LREV- 28+78 RT										1							
-LREV- 29+65 CL										1							
-LREV- 29+65 RT (97)										1							
-LREV- 30+70 CL										1							
-LREV- 30+70 RT (100)										1							
-LREV- 33+05 CL			7.2														
-LREV- 33+10 RT			6.0														
-LREV- 33+35 CL										1							
-LREV- 34+62 RT										1							
-LREV- 34+77 RT (116)										1							
-LREV- 34+97 RT (117)										1							
-LREV- 35+41 RT (120)										1							
-LREV- 35+51 RT (122)										1							
-LREV- 35+51 RT (121)										1							
-LREV- 35+51 RT (122–123)									0.9								
-LREV- 34+60 LT									0.9								
-LREV- 34+82 LT (125)										1							
-LREV- 35+90 LT (128)										1	0.1						
SHEET TOTAL			13.2						1.8	14	0.1						

Drop inlets, manholes, risers, elbows and remarks

STATION	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME & GRATE STD. 840.16	M.D.I. TYPE "A" STD. 840.17 OR 840.26	M.D.I. TYPE "B" STD. 840.18 OR 840.27	M.D.I. TYPE "D" STD. 840.19 OR 840.28	M.D.I. FRAME WITH TWO GRATES STD. 840.20	M.D.I. FRAME WITH GRATE STD. 840.22	M.D.I. FRAME WITH TWO GRATES STD. 840.22	M.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.29	M.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	M.H. STD. 840.51, 840.52, OR 840.53	M.H. FRAME & COVER STD. 840.54	O.T.C.B. STD. 840.04 OR 840.05	SPRING BOX STD. 840.41	150mm C.S. Pipe, 1.63mm THICK (SPRING BOX)	PERFORATED 150mm C.S. Pipe STUB. 1.63mmTHICK	M.D.I. FRAME WITH TWO GRATES STD. 840.33 (ANGLE VANE)	900 x 900 x 900mm PERF C.S.P. TEE RISER 2.01mm THICK	800 x 800 x 800mm PERF C.S.P. TEE RISER 2.01mm THICK	600 x 600 x 600mm PERF C.S.P. TEE RISER 1.63mm THICK	450 x 450 x 450mm PERF C.S.P. TEE RISER 1.63mm THICK	SLUISE GATE (FOR 600 C.S.P.)	CONC. COLLARS CL. "A" CM STD 840.72	CONC. & BRICK PIPE PLUG C.M. STD. 840.71	ADJUST EXISTING D.I.	PIPE REMOVAL (LINEAR METER)	C.S. ELBOWS NO.	C.S. ELBOWS SIZE	REMARKS
-LREV- 28+78 RT																1	3.6	3.6													
-LREV- 29+65 CL				1				1																							
-LREV- 29+65 RT (97)				1				1																							
-LREV- 30+70 CL				1				1																							
-LREV- 30+70 RT (100)				1				1																							
-LREV- 30+70 RT (100–101)																													1	400	
-LREV- 30+71 LT																					1										PERMANENT
-LREV- 33+35 CL				1				1																							
-LREV- 33+30 LT																						1									PERMANENT
-LREV- 34+62 RT																1	52.8	4.8											2	150	
-LREV- 34+77 RT (116)															1																
-LREV- 34+97 RT (117)															1																
-LREV- 34+97 RT (117–118)																													1	450	
-LREV- 35+32 RT																													1	450	
-LREV- 35+41 RT (120)															1																
-LREV- 35+41 RT (120–122)																													2	450	
-LREV- 35+51 RT (122)															1																
-LREV- 35+51 RT (122–121)																													2	400	
-LREV- 35+51 RT (121)				1		1																									
-LREV- 35+51 RT (122–123)																															"L" HEADWALL (STD. 838.05 OR 838.15)
-LREV- 34+60 LT																															"L" HEADWALL (STD. 838.05 OR 838.15)
-LREV- 34+82 LT (125)															1																
-LREV- 34+82 LT (125–126)																													2	450	
-LREV- 35+90 LT (128)			1					1																							
-LREV- 35+90 LT (128–129)																													2	400	
SHEET TOTAL			1	6		1		6							5	2	56.4	8.4			1	1							2@	150	
																													5@	400	
																													6@	450	

ABBREVIATIONS

- C.B. CATCH BASIN
- N.D.I. NARROW DROP INLET
- D.I. DROP INLET
- M.D.I. MEDIAN DROP INLET
- M.D.I. (N.S.) MEDIAN 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 JUCTION BOX

$$$$SYSTIME$$$$ $$$$DGN$$$$ $$$$USERNAME$$$$