RD104,10/13/00,G:\Admin\DataMasters\Excel_sheets\Drainage_Summaries.xls

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METRIC

PROJECT NO.: R-513C SHEET NO.: 3-A

# STATE OF NORTH CAROLINA
# DIVISION OF HIGHWAYS

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

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 JUNCTION BOX

| STATION / SIZE | LOCATION (LT, RT, OR CL) | STRUCTURE NO. FROM | STRUCTURE NO. TO | TOP ELEVATION | INVERT ELEVATION | INVERT ELEVATION | SLOPE CRITICAL | CLASS III R.C.P. PIPE (UNLESS NOTED OTHERWISE) 300 | 375 | 450 | 600 | 750 | 900 | 1050 | 1200 | BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE) 300 | 400 | 450 | 600 | 800 | 900 | 1000 | 1200 | 375mm SIDE DRAIN PIPE | 450mm SIDE DRAIN PIPE | 600mm SIDE DRAIN PIPE | ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CU. METERS R.C.P. | C.S.P. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| THICKNESS OR GAUGE | | | | | | | | | | | | | | | | 1.63 | 1.63 | 1.63 | 1.63 | 2.01 | 2.01 | 2.01 | 2.01 | | | | | |
| 249+40 -L- | CL | 1A | | 43.54 | 42.73 | | | | 28.8 | | | | | | | | | | | | | | | | | | | |
| 250+40 -L- | CL | 1 | | 43.24 | 42.43 | 41.62 | | | 24 | | | | | | | | | | | | | | | | | | | |
| 251+50 -L- | CL | 2 | | 42.91 | 42.1 | 41.08 | | | 24 | | | | | | | | | | | | | | | | | | | |
| 252+92 -L- | CL | 3 | | 42.48 | 41.67 | 41.5 | | | 28.8 | | | | | | | | | | | | | | | | | | | |
| 254+80 -L- | CL | 4 | | 41.92 | 41.11 | 40.34 | | | 25.2 | | | | | | | | | | | | | | | | | | | |
| 2+71 -RPC- | CL | 5 | | | 39.4 | 39.3 | | | | 44.4 | | | | | | | | | | | | | | | | | | |
| 255+70 -L- | CL | 6 | | | 39.1 | 38.8 | | | | | | | 58.8 | | | | | | | | | | | | | | 2.6 | |
| 3+93 -RPC- | CL | 7 | | | 39.8 | 39.57 | | | | | | | 49.2 | | | | | | | | | | | | | | 2.6 | |
| 13+30 -Y1- | CL | 8 | | | 38.6 | 38.1 | | | | | | | | 100.8 | (CL IV) | | | | | | | | | | | | 3.4 | |
| 13+64 -Y1- | LT | 9 | | 49.82 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 9 | 10 | | 49.01 | 48.94 | | | 14.4 | | | | | | | | | | | | | | | | | | | |
| 13+65 -Y1- | RT | 10 | | | 48.94 | 40.69 | | | | | | | | | | | 43.2 | | | | | | | | | | | |
| 14+37 -Y1- | RT | 11 | | 49.81 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 11 | 12 | | 49 | 48.93 | | | 14.4 | | | | | | | | | | | | | | | | | | | |
| 14+36 -Y1- | LT | 12 | | 49.82 | 48.93 | 41.86 | | | | | | | | | | | 32.4 | | | | | | | | | | | |
| 257+00 -L- | CL | 13 | | 42.54 | 41.73 | 41.14 | | | 31.2 | | | | | | | | | | | | | | | | | | | |
| 258+40 -L- | CL | 17 | | 42.28 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 17 | 18 | | 41.39 | 41.08 | | | | 24 | | | | | | | | | | | | | | | | | | |
| 258+40 -L- | RT | 18 | | 41.97 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 18 | 19 | | 41.08 | 40.88 | | | | 39.6 | | | | | | | | | | | | | | | | | | |
| 258+00 -L- | RT | 19 | | 41.85 | 40.88 | 40.29 | | | | 12 | | | | | | | | | | | | | | | | | | |
| 1+90 -RPD- | LT | 20 | | 42.41 | 41.85 | 41.56 | | | 26.4 | | | | | | | | | | | | | | | | | | | |
| 261+14 -L- | RT | 21 | | | 42.1 | 41.95 | | | | 30 | | | | | | | | | | | | | | | | | | |
| 261+14 -L- | CL | 22 | | 43.19 | 41.95 | 41.8 | | | | 33.6 | | | | | | | | | | | | | | | | | | |
| 263+45 -L- | RT | 23 | | | 41.5 | 41.4 | | | | | | 31.2 | | | | | | | | | | | | | | | | |
| 263+45 -L- | CL | 24 | | 43.88 | 41.4 | 41.3 | | | | | | 30 | | | | | | | | | | | | | | | | |
| 267+29 -L- | RT | 25 | | | 41.5 | 41.35 | | | | | | 32.4 | | | | | | | | | | | | | | | | |
| 267+29 -L- | CL | 26 | | 43.24 | 41.35 | 41.2 | | | | | | 30 | | | | | | | | | | | | | | | | |
| 268+40 -L- | CL | 26A | | 43.14 | 42.58 | 41.96 | | | 30 | | | | | | | | | | | | | | | | | | | |
| 269+50 -L- | CL | 27 | | 43.41 | 42.6 | 42.23 | | | 31.2 | | | | | | | | | | | | | | | | | | | |
| 270+46 -L- | CL | 28 | | | 41.18 | 41.12 | | | | | | 69.6 | | | | | | | | | | | | | | | | |
| 271+40 -L- | RT | 29 | | 44.41 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 29 | 30 | | 43.6 | 43.54 | | | 12 | | | | | | | | | | | | | | | | | | | |
| 271+40 -L- | LT | 30 | | 44.41 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 30 | 31 | | 43.54 | 43.42 | | | 25.2 | | | | | | | | | | | | | | | | | | | |
| 23+05 -Y5- | LT | 31 | | 43.37 | 42.56 | 42 | | | | 49.2 | | | | | | | | | | | | | | | | | | |
| 22+96 -Y5- | LT | 32 | | 51.7 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 32 | 33 | | 50.69 | 50.56 | | | 10.8 | | | | | | | | | | | | | | | | | | | |
| 23+01 -Y5- | RT | 33 | | 51.7 | 50.56 | 42.8 | | | | | | | | | | | 28.8 | | | | | | | | | | | |
| SHEET TOTALS | | | | | | | | | 326.4 | 232.8 | | 193.2 | 108.0 | | | | 104.4 | | | | | | | | | | 8.6 | |
| | | | | | | | | | | | | | | 100.8 | (CL IV) | | | | | | | | | | | | | |

| STATION | QUANTITIES FOR DRAINAGE STRUCTURES PER EACH (0 THRU 1.50) | *TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. "A" + (1.3 X COL."B") METERS A 1.5 THRU 3.00 | B 3.00 AND ABOVE | C.B. STD. 840.01 OR STD. 840.02 | FRAME, GRATES, AND HOOD STANDARD 840.03 TYPE OF GRATE E | F | G | D.I. STD. 840.14 OR STD. 840.15 | D.I. FRAME AND 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 TWO GRATES STD. 840.22 | M.D.I. (N.S.) FRAME WITH GRATE STD. 840.24 | M.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24 | J.B. STD. 840.31 OR 840.32 | MANHOLE STD. 840.51 | M.H. STD. 840.51 OR 840.53 | M.H. FRAME AND COVER STD. 840.54 | CORR. STEEL ELBOWS NO. & SIZE | CONC. COLLARS CL. "B" C.Y. STD. 840.72 | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 | PIPE REMOVAL (METERS) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 249+40 -L- | 1 | | | | | | | | | | 1 | | | 1 | | | | | | | | | | | |
| 250+40 -L- | 1 | | | | | | | | | | 1 | | | 1 | | | | | | | | | | | |
| 251+50 -L- | 1 | | | | | | | | | | 1 | | | 1 | | | | | | | | | | | |
| 252+92 -L- | 1 | | | | | | | | | | 1 | | | 1 | | | | | | | | | | | |
| 254+80 -L- | 1 | | | | | | | | | | 1 | | | 1 | | | | | | | | | | | |
| 2+71 -RPC- | | | | | | | | | | | | | | | | | | | | | | | | | |
| 255+70 -L- | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3+93 -RPC- | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13+30 -Y1- | | | | | | | | | | | | | | | | | | | | | | | | | METHOD "B" INSTALLATION |
| 13+64 -Y1- | 1 | | | | | | | | | | 1 | | 1 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13+65 -Y1- | 1 | | | | | | | | | | 1 | | 1 | | | | | | | | 2 @ 400 | | | | |
| 14+37 -Y1- | 1 | | | | | | | | | | 1 | | 1 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14+36 -Y1- | 1 | | | | | | | | | | 1 | | 1 | | | | | | | | 2 @ 400 | | | | |
| 257+00 -L- | 1 | | | | | | | | | | 1 | | | 1 | | | | | | | | | | | |
| 258+40 -L- | 1 | | | | | | | | | | 1 | | | 1 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| 258+40 -L- | 1 | | | | | | | | | | 1 | | | 1 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| 258+00 -L- | 1 | | | | | | | | | | 1 | | | 1 | | | | | | | | | | | |
| 1+90 -RPD- | 1 | | | | | | | | | | | 1 | | 1 | | | | | | | | | | | |
| 261+14 -L- | | | | | | | | | | | | | | | | | | | | | | | | | |
| 261+14 -L- | 1 | | | | | | | | | | 1 | | | 1 | | | | | | | | | | | |
| 263+45 -L- | | | | | | | | | | | | | | | | | | | | | | | | | |
| 263+45 -L- | 1 | 1.0 | | | | | | | | | 1 | | | 1 | | | | | | | | | | | |
| 267+29 -L- | | | | | | | | | | | | | | | | | | | | | | | | | |
| 267+29 -L- | 1 | 0.4 | | | | | | | | | 1 | | | 1 | | | | | | | | | | | |
| 268+40 -L- | 1 | | | | | | | | | | | 1 | | 1 | | | | | | | | | | | |
| 269+50 -L- | 1 | | | | | | | | | | 1 | | | 1 | | | | | | | | | | | |
| 270+46 -L- | | | | | | | | | | | | | | | | | | | | | | | | | |
| 271+40 -L- | 1 | | | | | | | | | | 1 | | | 1 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| 271+40 -L- | 1 | | | | | | | | | | 1 | | | 1 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23+05 -Y5- | 1 | | | | | | | | | | 1 | | | 1 | | | | | | | | | | | |
| 22+96 -Y5- | 1 | | | | | | | | | | 1 | | 1 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23+01 -Y5- | 1 | | | | | | | | | | 1 | | 1 | | | | | | | | 2 @ 400 | | | | |
| SHEET TOTALS | 24 | 1.4 | | | | | | | | | 22 | 2 | 6 | 18 | | | | | | | 6 @ 400 | | | | |