6/20/00

COMPUTED BY: KEM & WPB DATE: 11-12-02
CHECKED BY: DWG DATE: 08-12-04

# STATE OF NORTH CAROLINA
# DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.: U-2913B | SHEET NO.: 3-J

METRIC

## "ALL ELEVATIONS ARE FOR BID PURPOSES ONLY"
## LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 1200 mm & UNDER)

| STATION | LOCATION (LT, RT, OR CL) | STRUCTURE NO. FROM | STRUCTURE NO. TO | TOP ELEVATION | INVERT ELEVATION | INVERT ELEVATION | SLOPE CRITICAL | CLASS III R.C. PIPE (UNLESS NOTED OTHERWISE) 300 | 375 | 450 | 600 | 750 | 900 | 1050 | 1200 | BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE) 300 (1.63) | 400 (1.63) | 450 (1.63) | 600 (1.63) | 800 (2.01) | 900 (2.01) | 1000 (2.77) | 1200 (2.77) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SIZE / THICKNESS OR GAUGE | | | | | | | | | | | | | | | | | | | | | | | |
| -L- 69+70 | LT | 191 | | 272.47 | | | | | | | | | | | | | | | | | | | |
| -L- 70+10 | LT | 192 | | 272.85 | | | | | | | | | | | | | | | | | | | |
| -L- 69+32 | RT | 193 | | 272.33 | | | | | | | | | | | | | | | | | | | |
| | | 193 | 194 | | 271.30 | 271.31 | X | | 6 | | | | | | | | | | | | | | |
| -L- 69+32 | RT | 194 | | 272.00 | | | | | | | | | | | | | | | | | | | |
| -L- 69+41.23 | RT | 194A | | 272.32 | | | | | | | | | | | | | | | | | | | |
| | | 193 | 194A | | 271.06 | 271.10 | | | | | 8.4 | | | | | | | | | | | | |
| | | 194A | 195 | | 271.10 | 271.23 | | | | | 26.4 | | | | | | | | | | | | |
| -L- 69+68 | RT | 195 | | 272.43 | | | | | | | | | | | | | | | | | | | |
| | | 195 | 196 | | 271.45 | 271.47 | X | | 6 | | | | | | | | | | | | | | |
| -L- 69+68 | RT | 196 | | 272.05 | | | | | | | | | | | | | | | | | | | |
| | | 195 | 197 | | 271.38 | 271.82 | | | | 44.4 | | | | | | | | | | | | | |
| -L- 70+03 | RT | 196A | | | | | | | | | | | | | | | | | | | | | |
| -L- 70+12.5 | RT | 197 | | 272.86 | | | | | | | | | | | | | | | | | | | |
| | | 197 | 198 | | 271.90 | 271.91 | X | | 6 | | | | | | | | | | | | | | |
| -L- 70+12.5 | RT | 198 | | 272.60 | | | | | | | | | | | | | | | | | | | |
| | | 197 | 200 | | 271.82 | 272.22 | | | | 44.4 | | | | | | | | | | | | | |
| -L- 70+49 | RT | 199 | | | | | | | | | | | | | | | | | | | | | |
| -L- 70+57 | RT | 200 | | 273.28 | | | | | | | | | | | | | | | | | | | |
| | | 200 | 201 | | 272.29 | 272.61 | | | 4.8 | | | | | | | | | | | | | | |
| -L- 70+57 | RT | 201 | | 273.30 | | | | | | | | | | | | | | | | | | | |
| | | 200 | 203 | | 272.22 | 272.31 | | | | 19.2 | | | | | | | | | | | | | |
| -L- 70+64 | RT | 202 | | | | | | | | | | | | | | | | | | | | | |
| -L- 70+77 | RT | 203 | | 273.46 | | | | | | | | | | | | | | | | | | | |
| | | 203 | 204 | | 272.39 | 272.81 | | | 4.8 | | | | | | | | | | | | | | |
| -L- 70+77 | RT | 204 | | 273.50 | | | | | | | | | | | | | | | | | | | |
| | | 203 | 205 | | 272.39 | 272.64 | | | 50.4 | | | | | | | | | | | | | | |
| -L- 71+28 | RT | 205 | | 273.82 | | | | | | | | | | | | | | | | | | | |
| | | 205 | 206 | | 272.64 | 273.04 | | | 9.6 | | | | | | | | | | | | | | |
| | | 205 | 210 | | 272.64 | 272.84 | | | 40.8 | | | | | | | | | | | | | | |
| -L- 71+36 | RT | 206 | | 273.75 | | | | | | | | | | | | | | | | | | | |
| | | 206 | 207 | | 273.04 | 273.06 | | | 6 | | | | | | | | | | | | | | |
| -L- 71+42 | RT | 207 | | 273.75 | | | | | | | | | | | | | | | | | | | |
| -L- 71+39 | RT | 208 | | | | | | | | | | | | | | | | | | | | | |
| -L- 71+61 | RT | 209 | | | | | | | | | | | | | | | | | | | | | |
| -L- 71+69.2 | RT | 210 | | 273.84 | | | | | | | | | | | | | | | | | | | |
| | | 210 | 211 | | 272.84 | 273.01 | | | 4.8 | | | | | | | | | | | | | | |
| SHEET TOTAL | | | | | | | | | 139.2 | 108 | 34.8 | | | | | | | | | | | | |

| STATION | FROM | TO | 375mm SIDE DRAIN PIPE | 450mm SIDE DRAIN PIPE | 600mm SIDE DRAIN PIPE | ENDWALLS STD. 838.01 STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. METERS R.C.P. | C.S.P. | 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 | B 3.00 AND ABOVE | C.B. STD. 840.01 OR 840.02 | FRAME, GRATES, AND HOOD STD. 840.03 TYPE OF GRATE E | F | G | 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. (N.S.) FRAME WITH TWO GRATES STD. 840.24 | CONC. APRON FOR DROP INLET | POLYMER LINE DRAIN (METERS) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -L- 69+70 | 191 | | | | | | | 1 | | | 1 | | 1 | | | | | | | | | 3 |
| -L- 70+10 | 192 | | | | | | | 1 | | | 1 | | 1 | | | | | | | | | |
| -L- 69+32 | 193 | | | | | | | 1 | | | 1 | 1 | | | | | | | | | | |
| -L- 69+32 | 194 | | | | | | | 1 | | | | | | | 1 | 1 | | | | | | |
| -L- 69+41.23 | 194A | | | | | | | 1 | | | 1 | 1 | | | | | | | | | | |
| -L- 69+68 | 195 | | | | | | | 1 | | | 1 | | | 1 | | | | | | | | |
| -L- 69+68 | 196 | | | | | | | 1 | | | | | | | | | | | 1 | 1 | | |
| -L- 70+12.5 | 197 | | | | | | | 1 | | | 1 | | | 1 | | | | | | | | |
| -L- 70+12.5 | 198 | | | | | | | 1 | | | | | | | 1 | 1 | | | | | | |
| -L- 70+57 | 200 | | | | | | | 1 | | | 1 | | | 1 | | | | | | | | |
| -L- 70+57 | 201 | | | | | | | 1 | | | | | | | 1 | 1 | | | | | | |
| -L- 70+77 | 203 | | | | | | | 1 | | | 1 | | | 1 | | | | | | | | |
| -L- 70+77 | 204 | | | | | | | 1 | | | | | | | 1 | 1 | | | | | | |
| -L- 71+28 | 205 | | | | | | | 1 | | | 1 | | | 1 | | | | | | | | |
| -L- 71+36 | 206 | | | | | | | 1 | | | | | | | 1 | 1 | | | | | | |
| -L- 71+42 | 207 | | | | | | | 1 | | | | | | | 1 | 1 | | | | | | |
| -L- 71+69.2 | 210 | | | | | | | 1 | | | 1 | 1 | | | | | | | | | | |
| SHEET TOTAL | | | | | | | | 17 | | | 10 | 3 | 2 | 5 | 6 | 6 | | | 1 | 1 | | 3 |

| STATION | FROM | TO | T.B.J.B. STD. 840.34 | M.H. FRAME & COVER STD. 840.54 | CONVERT JB TO DI | PREFORMED SCOUR HOLE | 450 mm PLASTIC PIPE | MODIFIED CONCRETE FLUME SEE SHEET 2-Q | 750 mm PLASTIC PIPE | T.B.D.I. STD. 840.35 | M.D.I. (N.S.) FRAME WITH GRATE STD. 840.29 | TEMP. STEEL PLATE COVERS | PIPE CLEANOUT | CORR. STEEL ELBOW NO. & SIZE | FLOWABLE FILL $m^3$ | CONC. COLLARS, CL. "B" $m^3$ STD.840.72 | CONC. & BRICK PIPE PLUG m STD.840.71 | PIPE REMOVAL (meters) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -L- 70+03 | 196A | | | | | | | | | | | | | | | | | 5.6 | REMOVE 375 CONC |
| -L- 70+49 | 199 | | | | | | | | | | | | | | | | | 7.2 | REMOVE 375 CONC |
| -L- 70+64 | 202 | | | | | | | | | | | | | | | | | 7.2 | REMOVE 375 CONC |
| -L- 71+39 | 208 | | | | | | | | | | | | | | | | | 8.3 | REMOVE 375 CONC |
| -L- 71+61 | 209 | | | | | | | | | | | | | | | | | 7.2 | REMOVE 375 CONC |
| SHEET TOTAL | | | | | | | | | | | | | | | | | | 35.5 | |

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

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