D11CAD212277

COMPUTED BY: ______________________ DATE: __________

CHECKED BY: ______________________ DATE: __________

| PROJECT NO. | SHEET NO. |
|---|---|
| R-3427 | 3-I |

# STATE OF NORTH CAROLINA
# DIVISION OF HIGHWAYS

## *LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)*

| STATION / SIZE / THICKNESS OR GAUGE | 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) 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 269+70 | CL | 191 | | | 854.58 | 846.60 | | | | 132 | | | | | |
| 271+30 | LT | 192 | 193 | | | 870.50 | | | 68 | | | | | | |
| 271+60 | LT | 193 | | 872.82 | 870.57 | | | | | | | | | | |
| | | 193 | 194 | | 870.57 | 874.98 | | | 80 | | | | | | |
| 272+35 | LT | 194 | | 877.73 | 874.98 | | | | | | | | | | |
| 272+90 | RT | 195 | | | | | | | | | | | | | |
| 275+00 | LT | 196 | | | | | | | | | | | | | |
| 275+75 | RT | 197 | | | | | | | | | | | | | |
| 234+44 | RT | 198 | | | | | | | 16 | | | | | | |
| 237+87 | RT | 199 | | | | | | | 16 | | | | | | |
| 149+00 | RT | 201 | | 887.10 | 882.10 | | | | | | | | | | |
| | | 201 | 200 | | 882.10 | 878.50 | | | | | 112 | | | | |
| DETC | | | | | | | | | | | | | | | |
| 16+24 | LT | T1 | | | | | | | | | | | | | |
| DETB | | | | | | | | | | | | | | | |
| 14+45 | LT | T2 | | | | | | | | 24 | | | | | |
| DETA | | | | | | | | | | | | | | | |
| 24+71 | LT | T3 | | | | | | | | | | | | | |
| 28+68 | LT | T4 | | | | | | | | | | | | | |
| SHEET TOTALS | | | | | | | | | 112 | 24 | 112 | | | | |
| PROJECT TOTALS | | | | | | | | | 1348 | 1400 | 512 | 96 | 188 | | 76 |

| STATION | BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE) 12" .064 | 15" .064 | 18" .064 | 24" .064 | 30" .079 | 36" .079 | 42" .109 | 48" .109 | 15" SIDE DRAIN PIPE | 18" SIDE DRAIN PIPE | 24" SIDE DRAIN PIPE | ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CU. YARDS R.C.P. | C.S.P. | QUANITIES FOR DRAINAGE STRUCTURES PER EACH (0' THRU 5.0') | *TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') LIN. FT. A 5.0' THRU 10.0' | B 10.0' AND ABOVE | C.B. STD. 840.01 OR STD. 840.02 | FRAME, GRATES, AND HOOD STANDARD 840.03 TYPE OF GRATE E | F | G |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 269+70 | | | | | | | | | | | | | | | | | | | | |
| 271+30 | | | | | | | | | | | | | | | | | | | | |
| 271+60 | | | | | | | | | | | | | | 1 | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| 272+35 | | | | | | | | | | | | | | 1 | | | | | | |
| 272+90 | | | | | | | | | 28 | | | | | | | | | | | |
| 275+00 | | | | | | | | | 36 | | | | | | | | | | | |
| 275+75 | | | | | | | | | 36 | | | | | | | | | | | |
| 234+44 | | | | | | | | | | | | 0.7 | | | | | | | | |
| 237+87 | | | | | | | | | | | | 0.7 | | | | | | | | |
| 149+00 | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | 1 | | | | | | |
| DETC | | | | | | | | | | | | | | | | | | | | |
| 16+24 | | | | | | | | | 32 | | | | | | | | | | | |
| DETB | | | | | | | | | | | | | | | | | | | | |
| 14+45 | | | | | | | | | | | | | | | | | | | | |
| DETA | | | | | | | | | | | | | | | | | | | | |
| 24+71 | | | | | | | | | 32 | | | | | | | | | | | |
| 28+68 | | | | | | | | | 48 | | | | | | | | | | | |
| SHEET TOTALS | | | | | | | | | 132 | | | 1.4 | | 2 | | | | | | |
| PROJECT TOTALS | | 524 | | | | | | | 2736 | 520 | 284 | 22.4 | | 43 | 8.8 | 0.64 | | | | |

9.63

| STATION | 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. (N.S.) FRAME WITH TWO GRATES STD. 840.29 | 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 | T.B. J.B. STD. 840.34 | MANHOLE STD. 840.51 | M.H. STD. 840.51 OR 840.53 | M.H. FRAME AND COVER STD. 840.54 | T.B. D.I. STD. 840.35 | | 24" WELDED STEEL PIPE, 0.375" THICK, GRADE B, INSTALLED BY BORING & JACKING | 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 LIN. FT. | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 269+70 | | | | | | | | | | | | | | | | | | | | | | REMOVE EXIST. PIPE |
| 271+30 | | | | | | | | | | | | | | | | | | | | | 122 | 15" RCP |
| 271+60 | 1 | 1 | | | | | | | | | | | | | | | | | | | 33 | 12" RCP |
| | | | | | | | | | | | | | | | | | | | | | | |
| 272+35 | | | | 1 | | 1 | | | | | | | | | | | | | | | | |
| 272+90 | | | | | | | | | | | | | | | | | | | | | 25 | 10" VCP |
| 275+00 | | | | | | | | | | | | | | | | | | | | | 36 | 12" RCP |
| 275+75 | | | | | | | | | | | | | | | | | | | | | | |
| 234+44 | | | | | | | | | | | | | | | | | | | | | | PIPE FOR RETENTION BASIN |
| 237+87 | | | | | | | | | | | | | | | | | | | | | | PIPE FOR RETENTION BASIN |
| 149+00 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | 1 | | 1 | | | | | | | | | | | | | | | | |
| DETC | | | | | | | | | | | | | | | | | | | | | | |
| 16+24 | | | | | | | | | | | | | | | | | | | | | 32 | TEMPORARY PIPE FOR DETOUR |
| DETB | | | | | | | | | | | | | | | | | | | | | | |
| 14+45 | | | | | | | | | | | | | | | | | | | | | 24 | TEMPORARY PIPE FOR DETOUR |
| DETA | | | | | | | | | | | | | | | | | | | | | | |
| 24+71 | | | | | | | | | | | | | | | | | | | | | 32 | TEMPORARY PIPE FOR DETOUR |
| 28+68 | | | | | | | | | | | | | | | | | | | | | 48 | TEMPORARY PIPE FOR DETOUR |
| SHEET TOTALS | 1 | 1 | | 2 | | 2 | | | | | | | | | | | | | | | 352 | |
| PROJECT TOTALS | 6 | 6 | | 9 | | 31 | | | | 5 | 1 | | | 6 | 22 | | 180 | 32 | 5.219 | 1.322 | 2983 | |

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 |