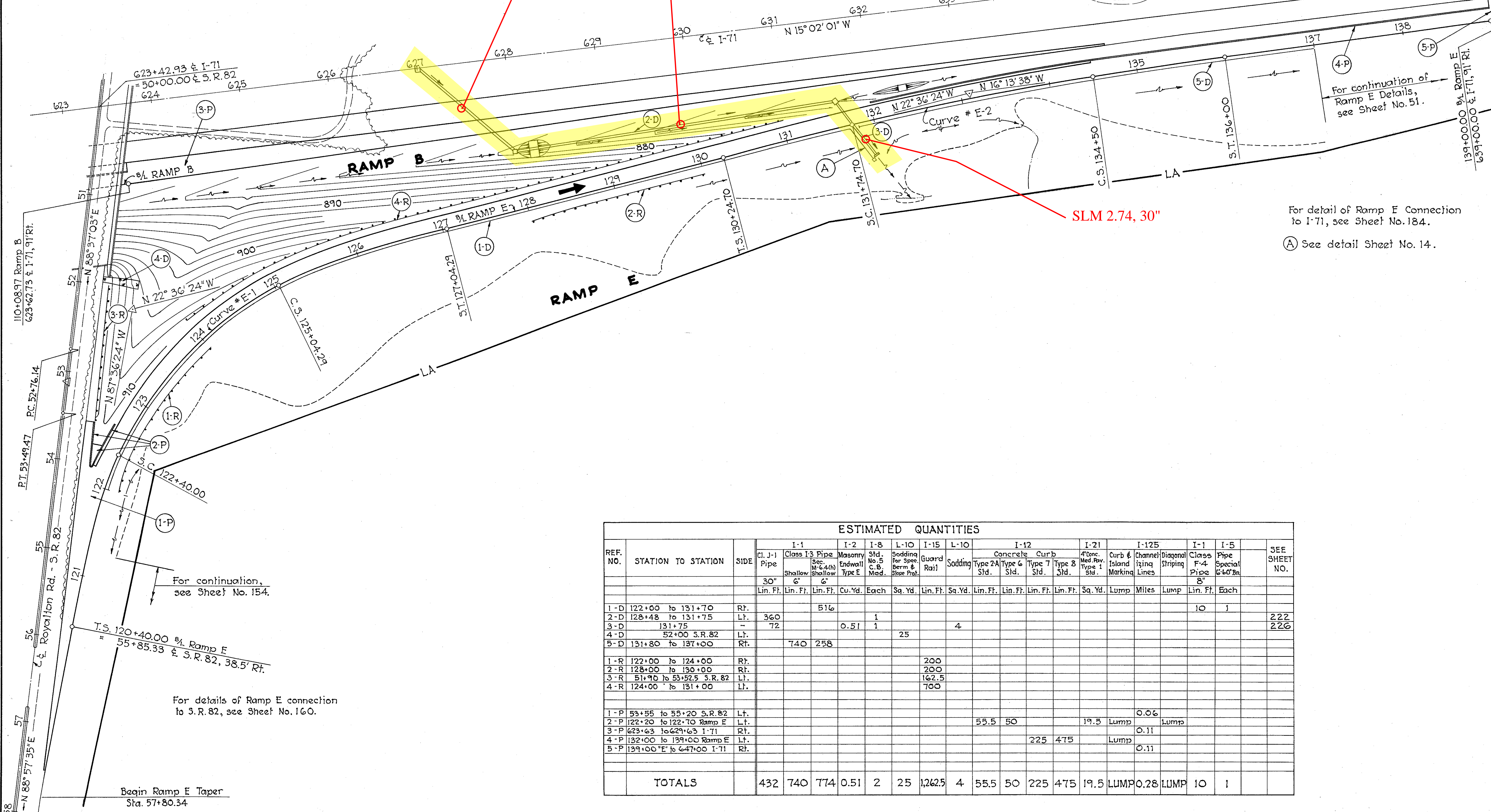


| CURVE # E-1                    |                                | CURVE # E-2                   |                                | S. R. 82 P.T. Sta. 53+12.80  |  |
|--------------------------------|--------------------------------|-------------------------------|--------------------------------|------------------------------|--|
| $\Delta = 65^{\circ}00'00''$   | $\theta_s = 14^{\circ}00'00''$ | $\Delta = 6^{\circ}22'46''$   | $\theta_s = 01^{\circ}07'30''$ | $\Delta = 00^{\circ}20'32''$ |  |
| $\Delta c = 37^{\circ}00'00''$ | $p = 4.06'$                    | $\Delta c = 4^{\circ}07'46''$ | $p = 0.25'$                    | $D = 0'28'$                  |  |
| $D_c = 14^{\circ}00'00''$      | $k = 99.80'$                   | $D_c = 1^{\circ}30'00''$      | $k = 75.00'$                   | $R = 12,277.67'$             |  |
| $R_c = 409.26'$                | $X_c = 198.81'$                | $R_c = 3819.72'$              | $X_c = 149.99'$                | $L = 73.33'$                 |  |
| $L_c = 264.29'$                | $Y_c = 16.22'$                 | $L_c = 275.30'$               | $Y_c = 0.98'$                  | $T = 36.67'$                 |  |
| $T_c = 136.93'$                | $LT = 133.75'$                 | $T_c = 137.71'$               | $LT = 100.00'$                 | $E = 0.05'$                  |  |
| $Ec = 22.30'$                  | $ST = 67.05'$                  | $Ec = 2.48'$                  | $ST = 50.00'$                  |                              |  |
| $LS1+LS2 = 200.00'$            | $TS = 363.11'$                 | $LS1+LS2 = 150.00'$           | $TS = 287.88'$                 |                              |  |



For detail of Ramp E Connection to I-71, see Sheet No. 184.  
 (A) See detail Sheet No. 14.

ESTIMATED QUANTITIES

| REF. NO. | STATION TO STATION        | SIDE | ESTIMATED QUANTITIES |                   |                            |                          |   |                 |              |                    |          |          |          |                                     |                             |              |                   | SEE SHEET NO. |                       |                           |     |
|----------|---------------------------|------|----------------------|-------------------|----------------------------|--------------------------|---|-----------------|--------------|--------------------|----------|----------|----------|-------------------------------------|-----------------------------|--------------|-------------------|---------------|-----------------------|---------------------------|-----|
|          |                           |      | Cl. J-1 Pipe         | I-1 Class 13 Pipe | I-2 Masonry Endwall Type E | I-8 Std. No. 5 C.B. Med. | L-10 Sodding For Spec. Berm & Slope Prot. | I-15 Guard Rail | L-10 Sodding | I-12 Concrete Curb |          |          |          | I-21 4" Conc. Med. Pav. Type 1 Std. | I-125 Curb & Island Marking | Channelizing | Diagonal Striping |               | I-1 Class F-4 Pipe 8" | I-5 Pipe Special 6'x6' Bn |     |
|          |                           |      | Lin. Ft.             | Lin. Ft.          | Lin. Ft.                   | Cu. Yd.                  | Each                                      | Sq. Yd.         | Lin. Ft.     | Sq. Yd.            | Lin. Ft. | Lin. Ft. | Lin. Ft. | Lin. Ft.                            | Sq. Yd.                     | Lump         | Miles             | Lump          | Lin. Ft.              | Each                      |     |
| 1-D      | 122+00 to 131+70          | Rt.  |                      |                   | 516                        |                          |   |                 |              |                    |          |          |          |                                     |                             |              |                   |               | 10                    | 1                         |     |
| 2-D      | 128+48 to 131+75          | Lf.  | 360                  |                   |                            |                          | 1   |                 |              |                    |          |          |          |                                     |                             |              |                   |               |                       |                           | 222 |
| 3-D      | 131+75                    |      | 72                   |                   |                            | 0.51                     | 1   |                 | 4            |                    |          |          |          |                                     |                             |              |                   |               |                       |                           | 226 |
| 4-D      | 52+00 S.R. 82             | Lf.  |                      |                   |                            |                          |   | 25              |              |                    |          |          |          |                                     |                             |              |                   |               |                       |                           |     |
| 5-D      | 131+80 to 137+00          | Rt.  |                      | 740               | 258                        |                          |   |                 |              |                    |          |          |          |                                     |                             |              |                   |               |                       |                           |     |
| 1-R      | 122+00 to 124+00          | Rt.  |                      |                   |                            |                          |   | 200             |              |                    |          |          |          |                                     |                             |              |                   |               |                       |                           |     |
| 2-R      | 128+00 to 130+00          | Rt.  |                      |                   |                            |                          |   | 200             |              |                    |          |          |          |                                     |                             |              |                   |               |                       |                           |     |
| 3-R      | 51+90 to 53+52.5 S.R. 82  | Lf.  |                      |                   |                            |                          |   | 162.5           |              |                    |          |          |          |                                     |                             |              |                   |               |                       |                           |     |
| 4-R      | 124+00 to 131+00          | Lf.  |                      |                   |                            |                          |   | 700             |              |                    |          |          |          |                                     |                             |              |                   |               |                       |                           |     |
| 1-P      | 53+55 to 55+20 S.R. 82    | Lf.  |                      |                   |                            |                          |   |                 |              |                    |          |          |          |                                     |                             |              | 0.06              |               |                       |                           |     |
| 2-P      | 122+20 to 122+70 Ramp E   | Lf.  |                      |                   |                            |                          |   |                 | 55.5         | 50                 |          |          |          |                                     | 19.5                        | Lump         |                   | Lump          |                       |                           |     |
| 3-P      | 623+63 to 629+63 I-71     | Rt.  |                      |                   |                            |                          |   |                 |              |                    |          |          |          |                                     |                             |              | 0.11              |               |                       |                           |     |
| 4-P      | 132+00 to 139+00 Ramp E   | Lf.  |                      |                   |                            |                          |   |                 |              |                    |          | 225      | 475      |                                     |                             | Lump         |                   |               |                       |                           |     |
| 5-P      | 139+00 "E" to 647+00 I-71 | Rt.  |                      |                   |                            |                          |   |                 |              |                    |          |          |          |                                     |                             |              | 0.11              |               |                       |                           |     |
| TOTALS   |                           |      | 432                  | 740               | 774                        | 0.51                     | 2   | 25              | 1,262.5      | 4                  | 55.5     | 50       | 225      | 475                                 | 19.5                        | LUMP         | 0.28              | LUMP          | 10                    | 1                         |     |