

| Element              | Point Type | Station  | Elevation | Length | Entrance Grade | Exit Grade | K     | Middle Ordinate | SSD/HSD |        |
|----------------------|------------|----------|-----------|--------|----------------|------------|-------|-----------------|---------|--------|
| Linear               | PVT        | 55+97.90 | 474.27    | 0.02   | -2.31%         |            |       |                 |         |        |
|                      | PVC        | 55+97.92 | 474.27    |        |                |            |       |                 |         |        |
| Symmetrical Parabola | PVC        | 55+97.92 | 474.27    | 320    | -2.31%         | 3.78%      | 52.6  | 2.4300          |         |        |
|                      |            |          | 56+00.00  |        |                |            |       |                 |         | 474.22 |
|                      |            |          | 56+50.00  |        |                |            |       |                 |         | 473.33 |
|                      |            |          | 57+00.00  |        |                |            |       |                 |         | 472.90 |
|                      |            |          | 57+50.00  |        |                |            |       |                 |         | 472.96 |
|                      | PVI        | 57+57.92 | 470.58    |        |                |            |       |                 |         |        |
|                      |            |          | 58+00.00  |        |                |            |       |                 |         | 473.49 |
|                      |            |          | 58+50.00  |        |                |            |       |                 |         | 474.49 |
|                      |            |          | 59+00.00  |        |                |            |       |                 |         | 475.98 |
|                      | PVT        | 59+17.92 | 476.62    |        |                |            |       |                 |         |        |
|                      | VLOW       | 57+19.25 | 472.87    |        |                |            |       |                 |         |        |
|                      | Linear     | PVT      | 59+17.92  |        |                |            |       |                 |         | 476.62 |
|                      |            |          | 59+50.00  | 477.83 |                |            |       |                 |         |        |
|                      |            |          | 60+00.00  | 479.72 |                |            |       |                 |         |        |
|                      |            |          | 60+50.00  | 481.61 |                |            |       |                 |         |        |
| PVC                  |            | 61+18.54 | 484.20    |        |                |            |       |                 |         |        |
| Symmetrical Parabola | PVC        | 61+18.54 | 484.20    | 200    | 3.78%          | -1.31%     | 39.35 | -1.2700         | 312.33  |        |
|                      |            |          | 61+50.00  |        |                |            |       |                 |         | 485.26 |
|                      |            |          | 62+00.00  |        |                |            |       |                 |         | 486.43 |
|                      | PVI        | 62+18.54 | 487.98    |        |                |            |       |                 |         |        |
| Linear               | PVT        | 63+18.54 | 486.67    | 64.16  | -1.31%         |            |       |                 |         |        |
|                      |            |          | 63+50.00  |        |                |            |       |                 |         | 486.26 |
|                      | PVC        | 63+82.70 | 485.83    |        |                |            |       |                 |         |        |
|                      |            |          | 64+00.00  |        |                |            |       |                 |         | 485.64 |
|                      |            |          | 64+50.00  |        |                |            |       |                 |         | 485.50 |
|                      | PVI        | 64+82.70 | 484.53    |        |                |            |       |                 |         |        |
|                      | VLOW       | 64+36.59 | 485.48    |        |                |            |       |                 |         |        |
| Symmetrical Parabola | PVT        | 65+82.70 | 488.07    | 200    | -1.31%         | 3.54%      | 41.28 | 1.2100          |         |        |
|                      | PVC        | 65+82.70 | 485.83    |        |                |            |       |                 |         |        |
|                      |            |          | 64+00.00  |        |                |            |       |                 |         | 485.64 |
|                      |            |          | 64+50.00  |        |                |            |       |                 |         | 485.50 |
|                      | PVI        | 64+82.70 | 484.53    |        |                |            |       |                 |         |        |
|                      |            |          | 65+00.00  |        |                |            |       |                 |         | 485.97 |
|                      |            |          | 65+50.00  |        |                |            |       |                 |         | 487.04 |
| Linear               | PVT        | 65+82.70 | 488.07    | 9.63   | 3.54%          |            |       |                 |         |        |
|                      | PVC        | 65+92.33 | 488.41    |        |                |            |       |                 |         |        |
|                      |            |          | 65+92.33  |        |                |            |       |                 |         | 488.41 |
|                      |            |          | 66+00.00  |        |                |            |       |                 |         | 488.67 |
| Symmetrical Parabola | PVC        | 65+92.33 | 488.41    | 240    | 3.54%          | -0.70%     | 56.59 | -1.2700         | 374.48  |        |
|                      |            |          | 66+00.00  |        |                |            |       |                 |         | 488.67 |
|                      |            |          | 66+50.00  |        |                |            |       |                 |         | 490.16 |
|                      |            |          | 67+00.00  |        |                |            |       |                 |         | 491.19 |
|                      | PVI        | 67+12.33 | 492.66    |        |                |            |       |                 |         |        |
|                      |            |          | 67+50.00  |        |                |            |       |                 |         | 491.79 |
|                      |            |          | 68+00.00  |        |                |            |       |                 |         | 491.95 |
| Linear               | PVT        | 68+32.33 | 491.81    | 515.92 | -0.70%         |            |       |                 |         |        |
|                      | VHIGH      | 67+92.64 | 491.95    |        |                |            |       |                 |         |        |
|                      |            |          | 68+32.33  |        |                |            |       |                 |         | 491.81 |
|                      |            |          | 68+50.00  |        |                |            |       |                 |         | 491.69 |
|                      |            |          | 69+00.00  |        |                |            |       |                 |         | 491.34 |
|                      |            |          | 69+50.00  |        |                |            |       |                 |         | 490.99 |
|                      |            |          | 70+00.00  |        |                |            |       |                 |         | 490.64 |
|                      |            |          | 70+50.00  |        |                |            |       |                 |         | 490.29 |
|                      |            |          | 71+00.00  |        |                |            |       |                 |         | 489.94 |
|                      |            |          | 71+50.00  |        |                |            |       |                 |         | 489.59 |
| Symmetrical Parabola | PVC        | 73+48.25 | 488.20    | 150    | -0.70%         | -2.84%     | 70.13 | -0.4000         | 579.52  |        |
|                      | PVC        | 73+48.25 | 488.20    |        |                |            |       |                 |         |        |
|                      |            |          | 73+50.00  |        |                |            |       |                 |         | 488.18 |
|                      | PVI        | 74+23.25 | 487.67    |        |                |            |       |                 |         |        |
|                      |            |          | 74+50.00  |        |                |            |       |                 |         | 486.74 |
| Linear               | PVT        | 74+98.25 | 485.54    | 41.14  | -2.84%         |            |       |                 |         |        |
|                      | PVC        | 75+39.40 | 484.37    |        |                |            |       |                 |         |        |
|                      |            |          | 75+39.40  |        |                |            |       |                 |         | 484.37 |
|                      |            |          | 75+50.00  |        |                |            |       |                 |         | 484.08 |
|                      |            |          | 76+00.00  |        |                |            |       |                 |         | 482.85 |
| Symmetrical Parabola | PVI        | 77+54.40 | 478.26    | 430    | -2.84%         | 1.82%      | 92.3  | 2.5000          |         |        |
|                      |            |          | 76+50.00  |        |                |            |       |                 |         | 481.89 |
|                      |            |          | 77+00.00  |        |                |            |       |                 |         | 481.21 |
|                      |            |          | 77+50.00  |        |                |            |       |                 |         | 480.79 |
|                      |            |          | 78+00.00  |        |                |            |       |                 |         | 480.65 |
|                      |            |          | 78+50.00  |        |                |            |       |                 |         | 480.77 |
|                      |            |          | 79+00.00  |        |                |            |       |                 |         | 481.17 |
|                      |            |          | 79+50.00  |        |                |            |       |                 |         | 481.84 |
|                      | PVT        | 79+69.40 | 482.17    |        |                |            |       |                 |         |        |
|                      | VLOW       | 78+01.56 | 480.65    |        |                |            |       |                 |         |        |

| Element              | Point Type           | Station  | Elevation | Length   | Entrance Grade | Exit Grade | K      | Middle Ordinate | SSD/HSD  |        |        |       |        |        |  |  |
|----------------------|----------------------|----------|-----------|----------|----------------|------------|--------|-----------------|----------|--------|--------|-------|--------|--------|--|--|
| Linear               | PVT                  | 79+69.40 | 482.17    | 31.94    | 1.82%          |            |        |                 |          |        |        |       |        |        |  |  |
|                      |                      |          | 80+00.00  |          |                |            |        |                 |          | 482.73 |        |       |        |        |  |  |
|                      | PVC                  | 80+01.34 | 482.75    |          |                |            |        |                 |          |        |        |       |        |        |  |  |
| Symmetrical Parabola | PVC                  | 80+01.34 | 482.75    | 70       | 1.82%          | -1.11%     | 23.9   | -0.2600         | 403.51   |        |        |       |        |        |  |  |
|                      |                      |          | 80+36.34  |          |                |            |        |                 |          | 483.39 |        |       |        |        |  |  |
|                      | PVI                  | 80+50.00 | 483.14    |          |                |            |        |                 |          |        |        |       |        |        |  |  |
|                      |                      |          | 80+71.34  |          |                |            |        |                 |          | 483.00 |        |       |        |        |  |  |
|                      | PVT                  | 80+71.34 | 483.00    |          |                |            |        |                 |          |        |        |       |        |        |  |  |
|                      | VHIGH                | 80+44.80 | 483.15    |          |                |            |        |                 |          |        |        |       |        |        |  |  |
|                      |                      |          | 81+00.00  |          |                |            |        |                 |          | 482.68 |        |       |        |        |  |  |
| Linear               |                      |          | 81+50.00  | 482.13   | 213.02         | -1.11%     |        |                 |          |        |        |       |        |        |  |  |
|                      |                      |          | 82+00.00  | 481.57   |                |            |        |                 |          |        |        |       |        |        |  |  |
|                      |                      |          | 82+50.00  | 481.02   |                |            |        |                 |          |        |        |       |        |        |  |  |
|                      | PVC                  | 82+84.35 | 480.64    |          |                |            |        |                 |          |        |        |       |        |        |  |  |
|                      |                      |          | 83+00.00  | 480.47   |                |            |        |                 |          |        |        |       |        |        |  |  |
|                      |                      |          | 83+50.00  | 479.97   |                |            |        |                 |          |        |        |       |        |        |  |  |
|                      |                      |          | 84+00.00  | 479.55   |                |            |        |                 |          |        |        |       |        |        |  |  |
|                      |                      |          | 84+50.00  | 479.21   |                |            |        |                 |          |        |        |       |        |        |  |  |
|                      |                      |          | 85+00.00  | 478.93   |                |            |        |                 |          |        |        |       |        |        |  |  |
|                      |                      |          | 85+50.00  | 478.73   |                |            |        |                 |          |        |        |       |        |        |  |  |
|                      |                      |          | 86+00.00  | 478.61   |                |            |        |                 |          |        |        |       |        |        |  |  |
|                      |                      |          | 86+50.00  | 478.56   |                |            |        |                 |          |        |        |       |        |        |  |  |
|                      | Symmetrical Parabola | PVI      | 86+84.35  | 476.20   |                |            |        |                 |          | 800    | -1.11% | 1.26% | 337.99 | 2.3700 |  |  |
|                      |                      |          | 87+00.00  | 478.58   |                |            |        |                 |          |        |        |       |        |        |  |  |
|                      |                      |          | 87+50.00  | 478.68   |                |            |        |                 |          |        |        |       |        |        |  |  |
|                      |                      |          | 88+00.00  | 478.85   |                |            |        |                 |          |        |        |       |        |        |  |  |
|                      |                      |          | 88+50.00  | 479.09   |                |            |        |                 |          |        |        |       |        |        |  |  |
|                      |                      |          | 89+00.00  | 479.41   |                |            |        |                 |          |        |        |       |        |        |  |  |
|                      |                      |          | 89+50.00  | 479.80   |                |            |        |                 |          |        |        |       |        |        |  |  |
|                      |                      |          | 90+00.00  | 480.27   |                |            |        |                 |          |        |        |       |        |        |  |  |
|                      |                      |          | 90+50.00  | 480.81   |                |            |        |                 |          |        |        |       |        |        |  |  |
| PVT                  |                      | 90+84.35 | 481.23    |          |                |            |        |                 |          |        |        |       |        |        |  |  |
| VLOW                 |                      | 86+59.53 | 478.56    |          |                |            |        |                 |          |        |        |       |        |        |  |  |
|                      |                      |          | 90+84.35  | 481.23   |                |            |        |                 |          |        |        |       |        |        |  |  |
| Linear               |                      |          |           | 91+00.00 | 481.42         | 97.89      | 1.26%  |                 |          |        |        |       |        |        |  |  |
|                      |                      |          |           | 91+50.00 | 482.05         |            |        |                 |          |        |        |       |        |        |  |  |
|                      |                      | PVC      | 91+82.24  | 482.46   |                |            |        |                 |          |        |        |       |        |        |  |  |
|                      |                      |          |           | 91+82.24 | 482.46         |            |        |                 |          |        |        |       |        |        |  |  |
|                      |                      |          |           | 92+00.00 | 482.65         |            |        |                 |          |        |        |       |        |        |  |  |
| Symmetrical Parabola | PVI                  | 92+07.24 | 482.77    | 50       | 1.26%          | 0.42%      | 59.49  | -0.0500         | 1308.94  |        |        |       |        |        |  |  |
|                      | PVT                  | 92+32.24 | 482.87    |          |                |            |        |                 |          |        |        |       |        |        |  |  |
|                      |                      |          | 92+32.24  |          |                |            |        |                 |          | 482.87 |        |       |        |        |  |  |
| Linear               |                      |          | 92+50.00  | 482.95   | 80.22          | 0.42%      |        |                 |          |        |        |       |        |        |  |  |
|                      |                      |          | 93+00.00  | 483.16   |                |            |        |                 |          |        |        |       |        |        |  |  |
|                      | PVC                  | 93+12.46 | 483.21    |          |                |            |        |                 |          |        |        |       |        |        |  |  |
|                      |                      |          | 93+12.46  | 483.21   |                |            |        |                 |          |        |        |       |        |        |  |  |
| Symmetrical Parabola | PVI                  | 93+50.00 | 483.41    | 110      | 0.42%          | 1.18%      | 144.78 | 0.1000          |          |        |        |       |        |        |  |  |
|                      |                      |          | 94+00.00  |          |                |            |        |                 |          | 483.84 |        |       |        |        |  |  |
|                      | PVT                  | 94+22.46 | 484.08    |          |                |            |        |                 |          |        |        |       |        |        |  |  |
|                      |                      |          | 94+22.46  |          |                |            |        |                 |          | 484.08 |        |       |        |        |  |  |
| Linear               |                      |          | 94+50.00  | 484.41   | 52.54          | 1.18%      |        |                 |          |        |        |       |        |        |  |  |
|                      | PVC                  | 94+75.00 | 484.70    |          |                |            |        |                 |          |        |        |       |        |        |  |  |
|                      |                      |          | 94+75.00  | 484.70   |                |            |        |                 |          |        |        |       |        |        |  |  |
| Symmetrical Parabola | PVI                  | 95+25.00 | 485.29    | 100      | 1.18%          | 1.14%      | 2934.3 | 0.0000          | 31715.19 |        |        |       |        |        |  |  |
|                      |                      |          | 95+50.00  |          |                |            |        |                 |          | 485.57 |        |       |        |        |  |  |
|                      | PVRC                 | 95+75.00 | 485.86    |          |                |            |        |                 |          |        |        |       |        |        |  |  |
|                      |                      |          | 96+00.00  |          |                |            |        |                 |          | 486.19 |        |       |        |        |  |  |
|                      | PVI                  | 96+25.00 | 486.43    |          |                |            |        |                 |          |        |        |       |        |        |  |  |
| Symmetrical Parabola |                      |          | 96+50.00  | 487.10   | 100            | 1.14%      | 2.51%  | 73.34           | 0.1700   |        |        |       |        |        |  |  |
|                      |                      |          | 96+75.00  | 487.69   |                |            |        |                 |          |        |        |       |        |        |  |  |
|                      | PVT                  | 96+75.00 | 487.69    |          |                |            |        |                 |          |        |        |       |        |        |  |  |
|                      |                      |          | 97+00.00  | 488.31   |                |            |        |                 |          |        |        |       |        |        |  |  |
|                      |                      |          | 97+50.00  | 489.56   |                |            |        |                 |          |        |        |       |        |        |  |  |
|                      |                      |          | 98+00.00  | 490.82   |                |            |        |                 |          |        |        |       |        |        |  |  |
| Linear               | PVC                  | 98+09.77 | 491.06    | 134.77   | 2.51%          |            |        |                 |          |        |        |       |        |        |  |  |
|                      |                      |          | 98+09.77  |          |                |            |        |                 |          | 491.06 |        |       |        |        |  |  |
|                      |                      |          | 98+50.00  |          |                |            |        |                 |          | 491.93 |        |       |        |        |  |  |
|                      | PVI                  | 98+84.77 | 492.94    |          |                |            |        |                 |          |        |        |       |        |        |  |  |
|                      |                      |          | 99+00.00  |          |                |            |        |                 |          | 492.62 |        |       |        |        |  |  |
| Symmetrical Parabola |                      |          | 99+50.00  | 492.88   | 150            | 2.51%      | -0.08% | 58.07           | -0.4800  | 492.76 |        |       |        |        |  |  |
|                      |                      |          | 99+59.77  | 492.88   |                |            |        |                 |          |        |        |       |        |        |  |  |
|                      | PVT                  | 99+59.77 | 492.88    |          |                |            |        |                 |          |        |        |       |        |        |  |  |
|                      | VHIGH                | 99+55.27 | 492.89    |          |                |            |        |                 |          |        |        |       |        |        |  |  |

| Element              | Point Type | Station   | Elevation | Length | Entrance Grade | Exit Grade | K      | Middle Ordinate | SSD/HSD |        |
|----------------------|------------|-----------|-----------|--------|----------------|------------|--------|-----------------|---------|--------|
| Linear               | PVT        | 99+59.77  | 492.88    | 44.11  | -0.08%         |            |        |                 |         |        |
|                      |            |           | 100+00.00 |        |                |            |        |                 |         | 492.85 |
|                      | PVC        | 100+03.89 | 492.85    |        |                |            |        |                 |         |        |
| Symmetrical Parabola | PVC        | 100+03.89 | 492.85    | 120    | -0.08%         | 0.44%      | 232.05 | 0.0800          |         |        |
|                      |            |           | 100+50.00 |        |                |            |        |                 |         | 492.86 |
|                      | PVI        | 100+63.89 | 492.80    |        |                |            |        |                 |         |        |
|                      |            |           | 101+00.00 |        |                |            |        |                 |         | 492.97 |
|                      | PVT        | 101+23.89 | 493.07    |        |                |            |        |                 |         |        |
|                      | VLOW       | 100+21.87 | 492.84    |        |                |            |        |                 |         |        |
|                      |            |           | 101+23.89 |        |                |            |        |                 |         | 493.07 |
| Linear               |            |           | 101+50.00 | 493.18 | 47.77          | 0.44%      |        |                 |         |        |
|                      |            |           | 101+71.66 | 493.28 |                |            |        |                 |         |        |
|                      | PVC        | 101+71.66 | 493.28    |        |                |            |        |                 |         |        |
|                      |            |           | 102+00.00 | 493.38 |                |            |        |                 |         |        |
| Symmetrical Parabola | PVI        | 102+21.86 | 493.50    | 100    | 0.44%          | -0.02%     | 217.23 | -0.0600         | 2394.24 |        |
|                      |            |           | 102+50.00 |        |                |            |        |                 |         | 493.48 |
|                      | PVT        | 102+71.66 | 493.49    |        |                |            |        |                 |         |        |
|                      | VHIGH      | 102+67.16 | 493.49    |        |                |            |        |                 |         |        |
|                      |            |           | 102+71.66 |        |                |            |        |                 |         | 493.49 |
| Linear               |            |           | 103+00.00 | 493.48 | 86.14          | -0.02%     |        |                 |         |        |
|                      |            |           | 103+50.00 | 493.47 |                |            |        |                 |         |        |
|                      | PVC        | 103+57.80 | 493.47    |        |                |            |        |                 |         |        |
|                      |            |           | 103+57.80 | 493.47 |                |            |        |                 |         |        |
| Symmetrical Parabola | PVI        | 104+17.80 | 493.46    | 120    | -0.02%         | 4.90%      | 24.4   | 0.7400          |         |        |
|                      |            |           | 104+50.00 |        |                |            |        |                 |         | 495.19 |
|                      | PVT        | 104+77.80 | 496.39    |        |                |            |        |                 |         |        |
|                      | VLOW       | 103+58.30 | 493.47    |        |                |            |        |                 |         |        |
| Linear               | PVT        | 104+77.80 | 496.39    | 14.2   | 4.90%          |            |        |                 |         |        |
|                      | PVC        | 104+92.00 | 497.09    |        |                |            |        |                 |         |        |
|                      |            |           | 104+92.00 |        |                |            |        |                 |         | 497.09 |
|                      |            |           | 105+00.00 |        |                |            |        |                 |         | 497.47 |
| Symmetrical Parabola | PVI        | 105+97.00 | 502.23    | 210    | 4.90%          | -5.48%     | 20.25  | -2.7200         | 209.04  |        |
|                      |            |           | 105+50.00 |        |                |            |        |                 |         | 499.10 |
|                      |            |           | 106+00.00 |        |                |            |        |                 |         | 499.50 |
|                      |            |           | 106+50.00 |        |                |            |        |                 |         | 498.66 |
|                      |            |           | 107+00.00 |        |                |            |        |                 |         | 496.59 |
|                      | PVT        | 107+02.00 | 496.48    |        |                |            |        |                 |         |        |
|                      | VHIGH      | 105+91.14 | 499.52    |        |                |            |        |                 |         |        |
| Linear               | PVT        | 107+02.00 | 496.48    | 10     | -5.48%         |            |        |                 |         |        |
|                      | PVC        | 107+12.00 | 495.93    |        |                |            |        |                 |         |        |
|                      |            |           | 107+12.00 |        |                |            |        |                 |         | 495.93 |
| Symmetrical Parabola | PVI        | 107+37.00 | 494.57    | 50     | -5.48%         | -2.58%     | 17.27  | 0.1800          |         |        |
|                      |            |           | 107+50.00 |        |                |            |        |                 |         | 494.27 |
|                      | PVT        | 107+62.00 | 493.92    |        |                |            |        |                 |         |        |
| Linear               | PVT        | 107+62.00 | 493.92    | 96.16  | -2.58%         |            |        |                 |         |        |
|                      |            |           | 108+00.00 |        |                |            |        |                 |         | 492.94 |
|                      |            |           | 108+50.00 |        |                |            |        |                 |         | 491.65 |
|                      | PVC        | 108+58.16 | 491.44    |        |                |            |        |                 |         |        |
|                      |            |           | 108+58.16 |        |                |            |        |                 |         | 491.44 |
|                      |            |           | 109+00.00 |        |                |            |        |                 |         | 490.88 |
| Symmetrical Parabola | PVI        | 109+28.16 | 489.63    | 140    | -2.58%         | 5.72%      | 16.87  | 1.4500          |         |        |
|                      |            |           | 109+50.00 |        |                |            |        |                 |         | 491.57 |
|                      | PVT        | 109+98.16 | 493.63    |        |                |            |        |                 |         |        |
|                      | VLOW       | 109+01.70 | 490.88    |        |                |            |        |                 |         |        |
|                      |            |           | 109+98.16 |        |                |            |        |                 |         | 493.63 |
| Linear               |            |           | 110+00.00 | 493.74 | 90.9           | 5.72%      |        |                 |         |        |
|                      |            |           | 110+50.00 | 496.60 |                |            |        |                 |         |        |
|                      | PVC        | 110+89.07 | 498.83    |        |                |            |        |                 |         |        |
|                      |            |           | 110+89.07 | 498.83 |                |            |        |                 |         |        |
| Symmetrical Parabola | PVI        | 111+81.57 | 504.12    | 185    | 5.72%          | 0.34%      | 34.42  | -1.2400         | 293.25  |        |