A1 | A | B | C | D | E | F | G | H | I | J | K | L | M | N

## Plateau West Pipe Table

| Pipe Name | Size (mm) | Plan Length (m) | Slope | Start Invert Level | End Invert Level | Start Coordinates | End Coordinates |
|---|---|---|---|---|---|---|---|
| S 1.000W | 50 | 13.920 | 0.83% | 43.270 | 43.154 | E: 384715.373 N: 399755.059 | E: 384707.334 N: 399743.695 |
| S 1.001W | 50 | 23.431 | 0.72% | 43.154 | 42.985 | E: 384707.334 N: 399743.695 | E: 384691.611 N: 399726.323 |
| S 1.002W | 100 | 24.630 | 4.04% | 42.935 | 41.940 | E: 384691.611 N: 399726.323 | E: 384672.550 N: 399710.725 |
| S 1.003W | 225 | 28.052 | 0.67% | 41.815 | 41.627 | E: 384672.550 N: 399710.725 | E: 384650.275 N: 399693.674 |
| S 1.004W | 225 | 49.131 | 0.67% | 41.627 | 41.299 | E: 384650.275 N: 399693.674 | E: 384611.125 N: 399663.991 |
| S 1.005W | 225 | 49.318 | 0.66% | 41.299 | 40.973 | E: 384611.125 N: 399663.991 | E: 384569.413 N: 399637.679 |
| S 1.006W | 225 | 52.364 | 0.66% | 40.973 | 40.627 | E: 384569.413 N: 399637.679 | E: 384523.652 N: 399612.225 |
| S 1.007W | 225 | 49.999 | 0.66% | 40.627 | 40.298 | E: 384523.652 N: 399612.225 | E: 384482.814 N: 399583.377 |
| S 1.008W | 225 | 44.580 | 0.66% | 40.298 | 40.005 | E: 384482.814 N: 399583.377 | E: 384448.775 N: 399554.590 |
| S 1.009W | 225 | 19.234 | 2.04% | 40.005 | 39.612 | E: 384448.775 N: 399554.590 | E: 384436.630 N: 399539.675 |
| S 1.010W | 225 | 29.493 | 3.95% | 39.612 | 38.447 | E: 384436.630 N: 399539.675 | E: 384450.996 N: 399513.918 |
| S 1.011W | 300 | 31.131 | 0.60% | 36.948 | 36.762 | E: 384450.996 N: 399513.918 | E: 384481.515 N: 399520.066 |
| S 1.012W | 375 | 47.884 | 0.87% | 36.687 | 36.270 | E: 384481.515 N: 399520.066 | E: 384525.703 N: 399538.512 |
| S 1.013W | 300 | 9.479 | 2.92% | 35.358 | 35.081 | E: 384525.703 N: 399538.512 | E: 384530.222 N: 399530.180 |
| S 1.014W | 300 | 19.757 | 5.38% | 35.081 | 34.018 | E: 384530.222 N: 399530.180 | E: 384517.569 N: 399515.006 |
| S 1.015W | 300 | 5.172 | 5.01% | 32.518 | 32.259 | E: 384517.569 N: 399515.006 | E: 384517.775 N: 399509.838 |
| S 1.016W | 300 | 5.538 | 4.68% | 31.219 | 30.960 | E: 384517.775 N: 399509.838 | E: 384518.126 N: 399504.311 |
| S 1.017W | 375 | 3.913 | 0.59% | 30.885 | 30.862 | E: 384518.126 N: 399504.311 | E: 384519.304 N: 399500.579 |
| S 1.018W | 450 | 3.766 | 1.51% | 30.757 | 30.700 | E: 384521.967 N: 399487.178 | E: 384524.831 N: 399484.732 |
| S 1.019W | 225 | 3.671 | 4.28% | 29.283 | 29.126 | E: 384524.831 N: 399484.732 | E: 384527.732 N: 399482.483 |
| S 1.020W | 300 | 4.333 | 0.97% | 28.056 | 28.014 | E: 384527.732 N: 399482.483 | E: 384528.464 N: 399478.212 |
| S 2.001W | 50 | 29.972 | 0.81% | 42.809 | 42.567 | E: 384675.163 N: 399710.580 | E: 384651.966 N: 399691.601 |
| S 2.002W | 100 | 2.675 | 28.59% | 42.517 | 41.752 | E: 384651.966 N: 399691.601 | E: 384650.275 N: 399693.674 |
| S 3.001W | 50 | 25.177 | 0.78% | 42.409 | 42.213 | E: 384632.379 N: 399677.877 | E: 384612.298 N: 399662.690 |
| S 3.002W | 100 | 1.752 | 42.19% | 42.163 | 41.424 | E: 384612.298 N: 399662.690 | E: 384611.125 N: 399663.991 |
| S 4.001W | 50 | 22.550 | 0.71% | 42.016 | 41.856 | E: 384589.703 N: 399647.898 | E: 384570.180 N: 399636.614 |
| S 4.002W | 100 | 1.312 | 53.96% | 41.806 | 41.098 | E: 384570.180 N: 399636.614 | E: 384569.413 N: 399637.679 |
| S 5.001W | 50 | 26.155 | 0.78% | 41.654 | 41.449 | E: 384547.521 N: 399623.861 | E: 384525.028 N: 399610.514 |
| S 5.002W | 100 | 2.196 | 29.46% | 41.399 | 40.752 | E: 384525.028 N: 399610.514 | E: 384523.652 N: 399612.225 |
| S 6.001W | 50 | 26.213 | 0.71% | 41.264 | 41.077 | E: 384505.107 N: 399597.290 | E: 384483.744 N: 399582.100 |
| S 6.002W | 100 | 1.581 | 38.22% | 41.027 | 40.423 | E: 384483.744 N: 399582.100 | E: 384482.814 N: 399583.377 |
| S 7.001W | 50 | 20.021 | 0.38% | 40.889 | 40.813 | E: 384464.763 N: 399566.339 | E: 384450.203 N: 399552.598 |
| S 7.002W | 100 | 2.450 | 25.84% | 40.763 | 40.130 | E: 384450.203 N: 399552.598 | E: 384448.775 N: 399554.590 |
| S 8.000W | 225 | 32.163 | 2.75% | 41.435 | 40.552 | E: 384381.831 N: 399519.962 | E: 384413.595 N: 399525.016 |
| S 8.001W | 225 | 27.304 | 0.93% | 40.552 | 40.299 | E: 384413.595 N: 399525.016 | E: 384436.630 N: 399539.675 |
| S 9.000W | 225 | 7.251 | 0.92% | 40.688 | 40.621 | E: 384407.733 N: 399533.750 | E: 384411.878 N: 399527.800 |
| S 9.001W | 225 | 3.271 | 2.11% | 40.621 | 40.552 | E: 384411.878 N: 399527.800 | E: 384413.595 N: 399525.016 |
| S 10.001W | 225 | 32.881 | 0.63% | 37.775 | 37.569 | E: 384352.692 N: 399454.056 | E: 384370.147 N: 399481.921 |
| S 10.002W | 225 | 16.798 | 0.67% | 37.569 | 37.457 | E: 384370.147 N: 399481.921 | E: 384385.522 N: 399488.688 |
| S 10.003W | 225 | 17.996 | 0.62% | 37.457 | 37.345 | E: 384385.522 N: 399488.688 | E: 384397.623 N: 399502.008 |
| S 10.004W | 225 | 54.686 | 0.59% | 37.345 | 37.023 | E: 384397.623 N: 399502.008 | E: 384450.996 N: 399513.918 |
| S 11.000W | 225 | 1.435 | 0.86% | 37.581 | 37.569 | E: 384369.055 N: 399482.852 | E: 384370.147 N: 399481.921 |
| S 12.000W | 225 | 1.446 | 0.50% | 36.844 | 36.837 | E: 384481.746 N: 399521.493 | E: 384481.515 N: 399520.066 |
| S 13.000W | 300 | 1.349 | 2.00% | 36.045 | 36.018 | E: 384611.912 N: 399594.135 | E: 384612.412 N: 399592.881 |
| S 13.001W | 300 | 22.666 | 0.98% | 36.018 | 35.795 | E: 384612.412 N: 399592.881 | E: 384591.469 N: 399584.214 |
| S 13.002W | 300 | 25.878 | 0.50% | 35.795 | 35.665 | E: 384591.469 N: 399584.214 | E: 384567.984 N: 399573.345 |
| S 13.003W | 300 | 18.446 | 0.50% | 35.665 | 35.573 | E: 384567.984 N: 399573.345 | E: 384554.716 N: 399560.530 |
| S 13.004W | 300 | 18.806 | 0.59% | 35.573 | 35.462 | E: 384554.716 N: 399560.530 | E: 384540.571 N: 399548.138 |
| S 13.005W | 300 | 17.712 | 0.59% | 35.462 | 35.358 | E: 384540.571 N: 399548.138 | E: 384525.703 N: 399538.512 |
| S 14.000W | 225 | 1.350 | 3.00% | 38.946 | 38.906 | E: 384668.143 N: 399617.691 | E: 384668.622 N: 399616.430 |
| S 14.001W | 225 | 23.553 | 3.67% | 38.906 | 38.042 | E: 384668.622 N: 399616.430 | E: 384647.982 N: 399605.083 |
| S 14.002W | 225 | 37.605 | 2.65% | 38.042 | 37.047 | E: 384647.982 N: 399605.083 | E: 384612.412 N: 399592.881 |
| S 15.000E | 150 | Gully Connection | | | | | |
| S 15.000W | 225 | 1.345 | 0.90% | 35.660 | 35.648 | E: 384553.782 N: 399561.499 | E: 384554.716 N: 399560.530 |
| S 16.000W | 150 | Gully Connection | | | | | |
| S 16.001W | 150 | 7.257 | 10.93% | 36.743 | 35.950 | E: 384427.233 N: 399496.610 | E: 384427.697 N: 399489.368 |
| S 16.002W | 150 | 9.503 | 8.64% | 34.450 | 33.629 | E: 384427.697 N: 399489.368 | E: 384428.071 N: 399479.873 |
| S 16.003W | 150 | 7.645 | 7.27% | 32.447 | 31.891 | E: 384428.071 N: 399479.873 | E: 384428.383 N: 399472.233 |
| S 16.004W | 225 | 7.006 | 3.87% | 31.271 | 31.000 | E: 384428.383 N: 399472.233 | E: 384435.249 N: 399470.839 |
| S 16.005W | 225 | 2.489 | 0.20% | 30.500 | 30.495 | E: 384435.249 N: 399470.839 | E: 384437.714 N: 399471.187 |
| S 16.006W | 225 | 1.404 | 0.21% | 30.483 | 30.480 | E: 384443.166 N: 399471.963 | E: 384444.557 N: 399472.152 |
| S 16.007W | 225 | 24.275 | 3.17% | 30.480 | 29.711 | E: 384444.557 N: 399472.152 | E: 384466.383 N: 399482.778 |
| S 16.008W | 225 | 6.836 | 0.91% | 29.711 | 29.649 | E: 384466.383 N: 399482.778 | E: 384470.952 N: 399477.693 |
| S 16.009W | 300 | 37.976 | 0.41% | 28.333 | 28.177 | E: 384470.952 N: 399477.693 | E: 384505.900 N: 399492.554 |
| S 16.010W | 300 | 19.617 | 0.41% | 28.177 | 28.097 | E: 384505.900 N: 399492.554 | E: 384518.865 N: 399477.832 |
| S 16.011W | 300 | 10.013 | 0.41% | 28.097 | 28.056 | E: 384518.865 N: 399477.832 | E: 384527.732 N: 399482.483 |
| S 17.000W | 300 | 2.363 | 0.30% | 28.602 | 28.595 | E: 384419.046 N: 399449.170 | E: 384421.391 N: 399449.464 |
| S 17.001W | 300 | 28.756 | 0.42% | 28.595 | 28.475 | E: 384421.391 N: 399449.464 | E: 384449.850 N: 399453.584 |
| S 17.002W | 300 | 21.907 | 0.42% | 28.475 | 28.384 | E: 384449.850 N: 399453.584 | E: 384459.247 N: 399473.373 |
| S 17.003W | 300 | 12.477 | 0.41% | 28.384 | 28.333 | E: 384459.247 N: 399473.373 | E: 384470.952 N: 399477.693 |
| S 18.000W | 150 | Gully Connection | | | | | |
| S 18.001W | 225 | 1.404 | 0.18% | 28.825 | 28.822 | E: 384455.568 N: 399471.342 | E: 384454.980 N: 399470.067 |
| S 18.002W | 225 | 2.754 | 0.18% | 28.799 | 28.794 | E: 384449.785 N: 399458.141 | E: 384448.694 N: 399455.613 |
| S 18.003W | 225 | 2.335 | 10.45% | 28.794 | 28.550 | E: 384448.694 N: 399455.613 | E: 384449.850 N: 399453.584 |
| S 19.000W | 225 | 1.123 | 3.81% | 28.502 | 28.459 | E: 384460.054 N: 399472.592 | E: 384459.247 N: 399473.373 |
| S 20.000W | 150 | Gully Connection | | | | | |
| S 21.000W | 150 | Gully Connection | | | | | |
| S 22.000W | 150 | Gully Connection | | | | | |
| S 23.000W | 150 | Gully Connection | | | | | |
| S 24.000W | 150 | Gully Connection | | | | | |
| S 25.000W | 100 | Tree Pit Connection | | | | | |
| S 26.000W | 150 | Gully Connection | | | | | |
| S 26.001W | 150 | Gully Connection | | | | | |
| S 26.002W | 150 | Gully Connection | | | | | |
| S 27.000W | 150 | Channel Connection | | | | | |
| S 28.000W | 150 | Gully Connection | | | | | |
| S 29.000W | 150 | Gully Connection | | | | | |
| S 31.000W | 150 | Gully Connection | | | | | |
| S 32.000W | 150 | Gully Connection | | | | | |
| S 33.000W | 150 | Gully Connection | | | | | |
| S 35.000W | 150 | Gully Connection | | | | | |
| S 36.000W | 150 | 5.093 | 45.61% | 37.785 | 35.462 | E: 384535.599 N: 399541.413 | E: 384530.510 N: 399541.605 |

## Plateau West Pipe Table

| Pipe Name | Size (mm) | Plan Length (m) | Slope | Start Invert Level | End Invert Level | Start Coordinates | End Coordinates |
|---|---|---|---|---|---|---|---|
| S 37.000W | 150 | Channel Connection | | | | | |
| S 38.000W | 150 | Channel Connection | | | | | |
| S 39.000W | 150 | Channel Connection | | | | | |
| S 40.000W | 150 | Gully Connection | | | | | |
| S 41.000W | 150 | Gully Connection | | | | | |
| S 42.000W | 150 | Channel Connection | | | | | |
| S 43.000W | 150 | Gully Connection | | | | | |
| S 44.000W | 150 | Gully Connection | | | | | |
| S 45.000W | 150 | Gully Connection | | | | | |
| S 46.000W | 150 | Gully Connection | | | | | |
| S 47.000W | 150 | Channel Connection | | | | | |
| S 48.000W | 150 | Channel Connection | | | | | |
| S2.000W RE | 50 | Channel Connection | | | | | |
| S3.000W RE | 50 | Channel Connection | | | | | |
| S4.000W RE | 50 | 1.896 | 19.20% | 42.563 | 42.199 | E: 384612.298 N: 399662.690 | E: 384610.712 N: 399661.652 |
| S5.000W RE | 50 | 1.866 | 19.51% | 42.206 | 41.842 | E: 384570.180 N: 399636.614 | E: 384568.554 N: 399635.699 |
| S6.000W RE | 50 | 1.955 | 18.67% | 41.799 | 41.434 | E: 384525.028 N: 399610.514 | E: 384523.399 N: 399609.433 |
| S7.000W RE | 50 | 1.866 | 19.51% | 41.426 | 41.062 | E: 384483.744 N: 399582.100 | E: 384482.309 N: 399580.908 |

## Plateau East Pipe Table

| Pipe Name | Size (mm) | Plan Length (m) | Slope | Start Invert Level | End Invert Level | Start Coordinates | End Coordinates |
|---|---|---|---|---|---|---|---|
| S 1.000E | 50 | 33.695 | 0.74% | 43.156 | 42.905 | E: 384729.669 N: 399777.401 | E: 384748.481 N: 399805.356 |
| S 1.001E | 50 | 20.200 | 0.75% | 42.905 | 42.755 | E: 384748.481 N: 399805.356 | E: 384759.777 N: 399822.102 |
| S 1.002E | 100 | 13.492 | 4.03% | 42.705 | 42.161 | E: 384759.777 N: 399822.102 | E: 384770.665 N: 399830.070 |
| S 1.003E | 225 | 25.503 | 0.90% | 42.036 | 41.807 | E: 384770.665 N: 399830.070 | E: 384792.459 N: 399816.825 |
| S 1.004E | 225 | 44.981 | 0.78% | 41.807 | 41.457 | E: 384792.459 N: 399816.825 | E: 384830.410 N: 399792.680 |
| S 1.005E | 300 | 72.350 | 0.58% | 41.382 | 40.962 | E: 384830.410 N: 399792.680 | E: 384791.469 N: 399731.704 |
| S 1.006E | 300 | 6.874 | 0.80% | 40.962 | 40.907 | E: 384791.469 N: 399731.704 | E: 384787.556 N: 399726.052 |
| S 1.007E | 375 | 7.549 | 0.54% | 40.832 | 40.791 | E: 384787.556 N: 399726.052 | E: 384786.386 N: 399718.594 |
| S 1.008E | 375 | 21.142 | 0.66% | 40.791 | 40.651 | E: 384786.386 N: 399718.594 | E: 384774.097 N: 399701.391 |
| S 1.009E | 450 | 21.983 | 0.50% | 39.486 | 39.376 | E: 384774.097 N: 399701.391 | E: 384792.016 N: 399688.656 |
| S 1.010E | 450 | 14.617 | 0.59% | 39.376 | 39.290 | E: 384792.016 N: 399688.656 | E: 384805.435 N: 399682.862 |
| S 1.011E | 750 | 31.313 | 0.44% | 38.990 | 38.853 | E: 384805.435 N: 399682.862 | E: 384831.577 N: 399700.099 |
| S 1.012E | 300 | 28.601 | 1.14% | 38.853 | 38.527 | E: 384831.577 N: 399700.099 | E: 384851.166 N: 399720.938 |
| S 1.013E | 300 | 22.057 | 3.33% | 36.715 | 35.980 | E: 384851.166 N: 399720.938 | E: 384865.984 N: 399737.276 |
| S 1.014E | 300 | 20.749 | 4.26% | 34.480 | 33.597 | E: 384865.984 N: 399737.276 | E: 384879.960 N: 399752.612 |
| S 1.015E | 300 | 15.956 | 3.30% | 32.273 | 31.747 | E: 384879.960 N: 399752.612 | E: 384890.736 N: 399764.380 |
| S 1.016E | 300 | 7.075 | 2.08% | 31.747 | 31.600 | E: 384890.736 N: 399764.380 | E: 384897.141 N: 399761.375 |
| S 2.000E | 50 | 3.340 | 1.83% | 42.756 | 42.695 | E: 384769.313 N: 399832.683 | E: 384772.153 N: 399830.926 |
| S 2.001E | 50 | 24.703 | 0.85% | 42.695 | 42.485 | E: 384772.153 N: 399830.926 | E: 384793.135 N: 399817.888 |
| S 2.002E | 100 | 1.260 | 39.37% | 42.435 | 41.939 | E: 384793.135 N: 399817.888 | E: 384792.459 N: 399816.825 |
| S 3.000E RE | 50 | 1.702 | 22.09% | 42.846 | 42.470 | E: 384793.135 N: 399817.888 | E: 384794.554 N: 399816.947 |
| S 3.001E | 50 | 19.411 | 0.39% | 42.317 | 42.241 | E: 384812.080 N: 399805.886 | E: 384828.457 N: 399795.466 |
| S 3.002E | 100 | 3.402 | 17.90% | 42.191 | 41.582 | E: 384828.457 N: 399795.466 | E: 384830.410 N: 399792.680 |
| S 4.000E | 50 | 9.262 | 1.66% | 42.761 | 42.607 | E: 384788.952 N: 399725.695 | E: 384793.928 N: 399733.508 |
| S 4.001E | 50 | 29.474 | 0.74% | 42.607 | 42.388 | E: 384793.928 N: 399733.508 | E: 384809.938 N: 399758.255 |
| S 4.002E | 50 | 30.505 | 0.72% | 42.388 | 42.169 | E: 384809.938 N: 399758.255 | E: 384826.431 N: 399783.916 |
| S 4.003E | 100 | 1.407 | 42.14% | 42.119 | 41.526 | E: 384826.431 N: 399783.916 | E: 384825.260 N: 399784.696 |
| S 5.000E | 50 | 8.166 | 1.03% | 43.226 | 43.142 | E: 384723.694 N: 399767.249 | E: 384730.514 N: 399762.758 |
| S 5.001E | 50 | 29.067 | 0.72% | 43.142 | 42.932 | E: 384730.514 N: 399762.758 | E: 384754.731 N: 399746.682 |
| S 5.002E | 100 | 29.601 | 0.74% | 42.929 | 42.710 | E: 384754.731 N: 399746.682 | E: 384779.457 N: 399730.408 |
| S 5.003E | 100 | 9.196 | 6.46% | 42.710 | 42.116 | E: 384779.457 N: 399730.408 | E: 384787.556 N: 399726.052 |
| S 6.000E | 225 | 8.954 | 1.29% | 41.097 | 40.982 | E: 384786.713 N: 399734.966 | E: 384787.556 N: 399726.052 |
| S 7.000E | 225 | 1.710 | 1.19% | 39.963 | 39.943 | E: 384746.440 N: 399684.931 | E: 384747.912 N: 399684.060 |
| S 7.001E | 225 | 31.401 | 0.74% | 39.943 | 39.711 | E: 384747.912 N: 399684.060 | E: 384774.097 N: 399701.391 |
| S 8.000E | 225 | 1.352 | 0.50% | 39.608 | 39.601 | E: 384792.063 N: 399690.008 | E: 384792.016 N: 399688.656 |
| S 9.000E | 150 | Channel Connection | | | | | |
| S 10.000E | 150 | Gully Connection | | | | | |
| S 11.000E | 150 | Gully Connection | | | | | |
| S 12.000E | 150 | Gully Connection | | | | | |
| S 13.000E | 150 | Gully Connection | | | | | |
| S 14.000E | 150 | Gully Connection | | | | | |
| S 16.000E | 150 | Gully Connection | | | | | |
| S 17.000E | 150 | Gully Connection | | | | | |
| S 18.000E | 150 | Gully Connection | | | | | |
| S 19.000E | 150 | Gully Connection | | | | | |
| S 20.000E | 150 | Gully Connection | | | | | |
| S 21.000E | 150 | Gully Connection | | | | | |
| S 22.000E | 150 | Gully Connection | | | | | |

## Union Walk Pipe Table

| Pipe Name | Size (mm) | Plan Length (m) | Slope | Start Invert Level | End Invert Level | Start Coordinates | End Coordinates |
|---|---|---|---|---|---|---|---|
| S 5.000S | 225 | 1.085 | 2.36% | 28.222 | 28.196 | E: 384455.531 N: 399392.480 | E: 384456.517 N: 399392.028 |
| S 5.001S | 225 | 11.694 | 2.36% | 28.196 | 27.920 | E: 384456.517 N: 399392.028 | E: 384467.160 N: 399387.183 |
| S 5.002S | 225 | 22.198 | 0.59% | 27.920 | 27.789 | E: 384467.160 N: 399387.183 | E: 384479.598 N: 399405.569 |
| S 5.003S | 225 | 5.131 | 0.62% | 27.789 | 27.757 | E: 384479.598 N: 399405.569 | E: 384481.958 N: 399401.013 |
| S 6.000S | 225 | 5.967 | 0.17% | 28.025 | 28.015 | E: 384440.980 N: 399347.364 | E: 384444.446 N: 399352.221 |
| S 6.001S | 225 | 4.812 | 0.17% | 27.963 | 27.955 | E: 384461.168 N: 399378.325 | E: 384463.938 N: 399382.259 |
| S 6.002S | 150 | 5.884 | 0.59% | 28.030 | 27.995 | E: 384463.938 N: 399382.259 | E: 384467.160 N: 399387.183 |
| S 7.000S | 100 | Channel Connection | | | | | |
| S 7.001S | 150 | 1.358 | 0.17% | 29.079 | 29.077 | E: 384495.113 N: 399436.767 | E: 384494.476 N: 399435.568 |
| S 7.002S | 150 | 4.423 | 0.17% | 29.051 | 29.044 | E: 384487.384 N: 399422.398 | E: 384485.282 N: 399418.507 |
| S 7.003S | 150 | 14.131 | 1.80% | 29.044 | 28.789 | E: 384485.282 N: 399418.507 | E: 384479.598 N: 399405.569 |
| S 8.000S | 100 | Channel Connection | | | | | |

## Water Play Pipe Table

| Pipe Name | Size (mm) | Plan Length (m) | Slope | Start Invert Level | End Invert Level | Start Coordinates | End Coordinates |
|---|---|---|---|---|---|---|---|
| S 1.000 WP | 100 | 4.217 | 3.89% | 31.789 | 31.625 | E: 384832.800 N: 399633.134 | E: 384836.728 N: 399631.599 |
| S 1.001 WP | 100 | 11.747 | 4.53% | 31.625 | 31.093 | E: 384836.728 N: 399631.599 | E: 384836.779 N: 399619.853 |
| S 1.002 WP | 100 | 6.745 | 29.55% | 31.093 | 29.100 | E: 384836.779 N: 399619.853 | E: 384842.820 N: 399616.853 |

## Channel Drain Table

| Pipe Name | Length (m) | Start Coordinates | End Coordinates | Description |
|---|---|---|---|---|
| Linear Channel 01E | 5.242 | E: 384764.173 N: 399687.441 | E: 384769.356 N: 399688.224 | Aco MultiDrain M200D No 0.0J 0% Channel Drain or Similar Approved, Class D400 |
| Linear Channel 01S | 3.264 | E: 384453.434 N: 399369.898 | E: 384456.198 N: 399368.161 | Aco MultiDrain M200D No 0.0J 0% Channel Drain or Similar Approved, Class D400 |
| Linear Channel 01W | 40.890 | E: 384742.155 N: 399674.602 | E: 384711.720 N: 399647.295 | Aco MultiDrain M200D No 0.0J 0% Channel Drain or Similar Approved, Class D400 |
| Linear Channel 02E | 7.172 | E: 384769.356 N: 399688.224 | E: 384776.474 N: 399687.335 | Aco MultiDrain M200D No 0.0J 0% Channel Drain or Similar Approved, Class D400 |
| Linear Channel 02S | 14.530 | E: 384456.198 N: 399368.161 | E: 384463.716 N: 399380.595 | Aco MultiDrain M200D No 0.0J 0% Channel Drain or Similar Approved, Class D400 |
| Linear Channel 02W | 27.093 | E: 384711.720 N: 399647.295 | E: 384691.477 N: 399629.288 | Aco MultiDrain M200D No 0.0J 0% Channel Drain or Similar Approved, Class D400 |
| Linear Channel 03E | 7.473 | E: 384776.474 N: 399687.335 | E: 384783.283 N: 399684.257 | Aco MultiDrain M200D No 0.0J 0% Channel Drain or Similar Approved, Class D400 |
| Linear Channel 03S | 2.961 | E: 384461.201 N: 399382.158 | E: 384463.716 N: 399380.595 | Aco MultiDrain M200D No 0.0J 0% Channel Drain or Similar Approved, Class D400 |
| Linear Channel 03W | 23.720 | E: 384691.477 N: 399629.288 | E: 384671.734 N: 399616.140 | Aco MultiDrain M200D No 0.0J 0% Channel Drain or Similar Approved, Class D400 |
| Linear Channel 04E | 10.425 | E: 384783.283 N: 399684.257 | E: 384791.481 N: 399677.818 | Aco MultiDrain M200D No 0.0J 0% Channel Drain or Similar Approved, Class D400 |
| Linear Channel 04S | 36.525 | E: 384516.990 N: 399470.045 | E: 384498.627 N: 399438.472 | Aco MultiDrain M150D No 0.0J 0% Channel Drain or Similar Approved, Class D400 |
| Linear Channel 04W | 11.891 | E: 384666.598 N: 399613.341 | E: 384656.327 N: 399607.349 | Aco MultiDrain M150D No 0.0J 0% Channel Drain or Similar Approved, Class D400 |
| Linear Channel 05E | 2.968 | E: 384791.481 N: 399677.818 | E: 384794.055 N: 399676.339 | Aco MultiDrain M200D No 0.0J 0% Channel Drain or Similar Approved, Class D400 |
| Linear Channel 05W | 11.013 | E: 384656.327 N: 399607.349 | E: 384646.404 N: 399602.571 | Aco MultiDrain M150D No 0.0J 0% Channel Drain or Similar Approved, Class D400 |
| Linear Channel 06E | 2.471 | E: 384794.058 N: 399676.338 | E: 384796.436 N: 399675.665 | Aco MultiDrain M200D No 0.0J 0% Channel Drain or Similar Approved, Class D400 |
| Linear Channel 06W | 12.936 | E: 384646.404 N: 399602.571 | E: 384634.257 N: 399598.123 | Aco MultiDrain M150D No 0.0J 0% Channel Drain or Similar Approved, Class D400 |
| Linear Channel 07E | 2.244 | E: 384796.436 N: 399675.670 | E: 384798.678 N: 399675.756 | Aco MultiDrain M200D No 0.0J 0% Channel Drain or Similar Approved, Class D400 |
| Linear Channel 07W | 8.829 | E: 384634.257 N: 399598.123 | E: 384625.770 N: 399595.690 | Aco MultiDrain M150D No 0.0J 0% Channel Drain or Similar Approved, Class D400 |
| Linear Channel 08W | 12.222 | E: 384625.770 N: 399595.690 | E: 384614.116 N: 399592.005 | Aco MultiDrain M150D No 0.0J 0% Channel Drain or Similar Approved, Class D400 |
| Linear Channel 09W | 14.008 | E: 384612.909 N: 399591.543 | E: 384599.952 N: 399586.221 | Aco MultiDrain M150D No 0.0J 0% Channel Drain or Similar Approved, Class D400 |
| Linear Channel 10W | 11.118 | E: 384599.952 N: 399586.221 | E: 384589.684 N: 399581.957 | Aco MultiDrain M150D No 0.0J 0% Channel Drain or Similar Approved, Class D400 |
| Linear Channel 11W | 8.158 | E: 384589.684 N: 399581.957 | E: 384582.261 N: 399578.573 | Aco MultiDrain M150D No 0.0J 0% Channel Drain or Similar Approved, Class D400 |
| Linear Channel 12W | 8.174 | E: 384582.261 N: 399578.573 | E: 384574.858 N: 399575.108 | Aco MultiDrain M150D No 0.0J 0% Channel Drain or Similar Approved, Class D400 |
| Linear Channel 13W | 6.185 | E: 384574.858 N: 399575.108 | E: 384569.680 N: 399571.725 | Aco MultiDrain M150D No 0.0J 0% Channel Drain or Similar Approved, Class D400 |
| Linear Channel 14W | 6.926 | E: 384569.680 N: 399571.725 | E: 384564.253 N: 399567.421 | Aco MultiDrain M150D No 0.0J 0% Channel Drain or Similar Approved, Class D400 |
| Linear Channel 15W | 7.493 | E: 384564.253 N: 399567.421 | E: 384558.998 N: 399562.080 | Aco MultiDrain M150D No 0.0J 0% Channel Drain or Similar Approved, Class D400 |
| Linear Channel 16W | 11.011 | E: 384558.998 N: 399562.080 | E: 384551.893 N: 399553.668 | Aco MultiDrain M150D No 0.0J 0% Channel Drain or Similar Approved, Class D400 |
| Linear Channel 17W | 10.393 | E: 384551.893 N: 399553.668 | E: 384544.032 N: 399546.870 | Aco MultiDrain M150D No 0.0J 0% Channel Drain or Similar Approved, Class D400 |
| Linear Channel 18W | 10.044 | E: 384544.032 N: 399546.870 | E: 384535.599 N: 399541.413 | Aco MultiDrain M150D No 0.0J 0% Channel Drain or Similar Approved, Class D400 |
| Linear Channel 19W | 11.440 | E: 384487.278 N: 399520.119 | E: 384497.500 N: 399525.256 | Aco MultiDrain M100D No. 0.0J 0% Channel Drain or Similar Approved, Class D400 |
| Linear Channel 20W | 27.408 | E: 384497.500 N: 399525.256 | E: 384523.047 N: 399535.181 | Aco MultiDrain M100D No. 0.0J 0% Channel Drain or Similar Approved, Class D400 |
| Linear Channel 21aW | 9.601 | E: 384441.984 N: 399510.773 | E: 384451.466 N: 399512.282 | Aco MultiDrain M150D No. 0.0J 0% Channel Drain or Similar Approved, Class D400 |
| Linear Channel 21bW | 25.452 | E: 384451.466 N: 399512.282 | E: 384476.487 N: 399516.950 | Aco MultiDrain M150D No. 0.0J 0% Channel Drain or Similar Approved, Class D400 |
| Linear Channel 22W | 4.469 | E: 384476.487 N: 399516.950 | E: 384480.782 N: 399518.187 | Aco MultiDrain M150D No. 0.0J 0% Channel Drain or Similar Approved, Class D400 |
| Linear Channel 23W | 3.305 | E: 384410.184 N: 399504.592 | E: 384413.479 N: 399504.840 | Aco MultiDrain M150D No 0.0J 0% Channel Drain or Similar Approved, Class B125 |
| Linear Channel 24W | 16.965 | E: 384413.479 N: 399504.840 | E: 384430.385 N: 399506.255 | Aco MultiDrain M150D No 0.0J 0% Channel Drain or Similar Approved, Class B125 |
| Linear Channel 25W | 25.344 | E: 384319.436 N: 399427.046 | E: 384335.278 N: 399446.828 | Aco MultiDrain M150D No 0.0J 0% Channel Drain or Similar Approved, Class B125 |
| Linear Channel 26W | 14.531 | E: 384425.050 N: 399447.450 | E: 384439.581 N: 399447.434 | Aco MultiDrain M150D No 0.0J 0% Channel Drain or Similar Approved, Class D400 |
| Linear Channel 27W | 14.865 | E: 384439.581 N: 399447.434 | E: 384453.911 N: 399451.387 | Aco MultiDrain M150D No 0.0J 0% Channel Drain or Similar Approved, Class D400 |

## Permeable Paving Check Dam Schedule

| Point Number | Point Name | Check Dam | Easting | Northing |
|---|---|---|---|---|
| 1 | cd1a | Check Dam 1 | 384704.985 | 399746.264 |
| 2 | cd1b | Check Dam 1 | 384712.038 | 399740.840 |
| 3 | cd2a | Check Dam 2 | 384685.503 | 399731.532 |
| 4 | cd2b | Check Dam 2 | 384695.365 | 399721.905 |
| 5 | cd3a | Check Dam 3 | 384672.368 | 399712.794 |
| 6 | cd3b | Check Dam 3 | 384676.193 | 399708.333 |
| 7 | cd4a | Check Dam 4 | 384647.838 | 399696.763 |
| 8 | cd4b | Check Dam 4 | 384654.753 | 399687.648 |
| 9 | cd5a | Check Dam 5 | 384628.863 | 399682.421 |
| 10 | cd5b | Check Dam 5 | 384636.306 | 399673.649 |
| 11 | cd6a | Check Dam 6 | 384609.591 | 399665.047 |
| 12 | cd6b | Check Dam 6 | 384613.009 | 399660.244 |
| 13 | cd7a | Check Dam 7 | 384585.839 | 399652.219 |
| 14 | cd7b | Check Dam 7 | 384591.937 | 399642.796 |
| 15 | cd8a | Check Dam 8 | 384567.363 | 399641.311 |
| 16 | cd8b | Check Dam 8 | 384573.684 | 399631.895 |
| 17 | cd9a | Check Dam 9 | 384543.578 | 399625.343 |
| 18 | cd9b | Check Dam 9 | 384546.335 | 399620.079 |
| 19 | cd10a | Check Dam 10 | 384521.712 | 399615.583 |
| 20 | cd10b | Check Dam 10 | 384527.861 | 399605.721 |
| 21 | cd11a | Check Dam 11 | 384503.266 | 399603.413 |
| 22 | cd11b | Check Dam 11 | 384510.049 | 399594.493 |
| 23 | cd12a | Check Dam 12 | 384479.941 | 399586.612 |
| 24 | cd12b | Check Dam 12 | 384485.023 | 399579.857 |
| 25 | cd13a | Check Dam 13 | 384460.696 | 399570.698 |
| 26 | cd13b | Check Dam 13 | 384468.462 | 399562.406 |
| 27 | cd14a | Check Dam 14 | 384724.865 | 399774.387 |
| 28 | cd14b | Check Dam 14 | 384729.036 | 399771.859 |
| 29 | cd15a | Check Dam 15 | 384742.444 | 399809.445 |
| 30 | cd15b | Check Dam 15 | 384753.010 | 399803.079 |
| 31 | cd16a | Check Dam 16 | 384757.403 | 399822.497 |
| 32 | cd16b | Check Dam 16 | 384761.227 | 399819.881 |
| 33 | cd17a | Check Dam 17 | 384773.030 | 399832.620 |
| 34 | cd17b | Check Dam 17 | 384772.825 | 399824.896 |
| 35 | cd18a | Check Dam 18 | 384795.780 | 399821.366 |
| 36 | cd18b | Check Dam 18 | 384790.099 | 399812.424 |
| 37 | cd19a | Check Dam 19 | 384814.888 | 399809.227 |
| 38 | cd19b | Check Dam 19 | 384807.811 | 399799.158 |
| 39 | cd20a | Check Dam 20 | 384829.282 | 399785.067 |
| 40 | cd20b | Check Dam 20 | 384823.365 | 399787.393 |
| 41 | cd21a | Check Dam 21 | 384814.060 | 399756.070 |
| 42 | cd21b | Check Dam 21 | 384805.684 | 399761.392 |
| 43 | cd22a | Check Dam 22 | 384795.443 | 399731.801 |
| 44 | cd22b | Check Dam 22 | 384791.105 | 399736.225 |
| 45 | cd23a | Check Dam 23 | 384778.255 | 399728.966 |
| 46 | cd23b | Check Dam 23 | 384781.152 | 399734.172 |
| 47 | cd24a | Check Dam 24 | 384751.841 | 399743.129 |
| 48 | cd24b | Check Dam 24 | 384757.476 | 399752.137 |
| 49 | cd25a | Check Dam 25 | 384729.259 | 399761.252 |
| 50 | cd25b | Check Dam 25 | 384731.968 | 399764.915 |

**Notes**

1. All dimensions are in mm, all levels in mAOD, unless specified otherwise.

2. This drawing should be read with reference to Arup's full WS4 drawings and specifications.

3. Concrete Requirements. Concrete to be in accordance with BS 8500 parts 1 and 2.
- Concrete chemcial class - Made ground: AC-3s DC-3
  - Natural ground: AC-1s DC-1
- Blinding: GEN 1
- Bases and Surround: GEN 3.

4. Drainage construction materials:
   - Surface Water Drainage pipes - Polyethylene (for pipes over 600mm dia), Polypropylene (for pipes over 300mm dia) and PVC (for pipes under 300mm dia) in accordance with BS13476 to have BSI kitemark status (certified to WIS 4-35-01)
   - Foul Drainage Pipes - Vitrified Clay in accordance with BS EN 295
   - Manholes - Precast Concrete
   - Inspection Chambers - Polypropylene in accordance with BS 7158

5. For the Infrastructure Specification refer to VNIF-ARP-ZZ-YYY-SP-C-0001.

| Rev | Date | Description | By | Chkd | Appd | Auth |
|---|---|---|---|---|---|---|
| P01 | 14/07/22 | WS4 Issue to BAM | DH | DH | RG | --- |
| P02 | 08/08/22 | Issued for Technical Approval | ES | DH | RG | --- |
| P03 | 09/09/22 | Issued for S104 Application | ES | DH | RG | --- |
| P04 | 10/10/22 | Full WS4 Issue | ES | DH | RG | --- |
| P05 | 20/10/22 | Issued for Full WS4 | ES | DH | RG | --- |

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Client

MANCHESTER CITY COUNCIL

bam nuttall

Project Title

Victoria North HIF Infrastructure & Enabling Works

Drawing Title

Proposed Surface Water Drainage Schedules 2

Scale at A1: N/A | Arup Job No: 282022-00

Role: Civil - Drainage

Suitability: S4 - Issued for Construction Approval

| Rev | By | Chkd | Appd | |
|---|---|---|---|---|
| P05 | ES | DH | RG | --- |
| | Date 19/10/22 | Date 20/10/22 | Date 20/10/22 | --- |

Name

**VNIF - ARP - 00 - YYY - DR - CD - 0054**

Project | Originator | Volume | Location | Type | Role | Number

Do not scale

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