



- KEY**
- Internal Drainage connection
 - 320/460mm dia inspection Chamber
 - Private Foul Water Sewer (FW) & Chamber
 - Private Surface Water Sewer (SW) & Chamber
 - Private SW Rodding Eye
 - Private SW Down Pipe & connection
 - Private SW Down Pipe from garage & connection into porous stone via distribution box
 - Linear Drainage Channel
 - Adoptable Foul Sewer & Manhole

- Private Drainage General Principles**
- The minimum size for a gravity foul sewer should be:
 - 150mm nominal internal diameter for two properties or less
 - 100mm nominal internal diameter for more than two properties
 - The minimum gradient for foul 1:80 and for surface water 1:100. Steeper gradients are preferred for access to boundary chambers.
 - SW/VC to be placed on main run through chamber with down pipe, silt etc to be on down pipe or on PVC chamber below.
 - Where drainage passes through an area or into a foundation wall, the down pipe should be as close as possible to the wall in order that any rain water is kept within the wall.
 - All inspection chambers to be 750mm to centre from the outer face of the external wall to ensure they are covered within paving with recessed porous cover to suit. If required.
 - Inspection chambers should where possible be designed in line.
 - Chambers to be used as part of a rock or 150mm of wall. This should be a double sided bench.
 - Chambers should be no more than 2m between access chamber and bend as per NHBC Technical Guidance Document 5.3.01, 5.3.02, 5.3.03, 5.3.04, 5.3.05, 5.3.06, 5.3.07, 5.3.08, 5.3.09, 5.3.10, 5.3.11, 5.3.12, 5.3.13, 5.3.14, 5.3.15, 5.3.16, 5.3.17, 5.3.18, 5.3.19, 5.3.20, 5.3.21, 5.3.22, 5.3.23, 5.3.24, 5.3.25, 5.3.26, 5.3.27, 5.3.28, 5.3.29, 5.3.30, 5.3.31, 5.3.32, 5.3.33, 5.3.34, 5.3.35, 5.3.36, 5.3.37, 5.3.38, 5.3.39, 5.3.40, 5.3.41, 5.3.42, 5.3.43, 5.3.44, 5.3.45, 5.3.46, 5.3.47, 5.3.48, 5.3.49, 5.3.50, 5.3.51, 5.3.52, 5.3.53, 5.3.54, 5.3.55, 5.3.56, 5.3.57, 5.3.58, 5.3.59, 5.3.60, 5.3.61, 5.3.62, 5.3.63, 5.3.64, 5.3.65, 5.3.66, 5.3.67, 5.3.68, 5.3.69, 5.3.70, 5.3.71, 5.3.72, 5.3.73, 5.3.74, 5.3.75, 5.3.76, 5.3.77, 5.3.78, 5.3.79, 5.3.80, 5.3.81, 5.3.82, 5.3.83, 5.3.84, 5.3.85, 5.3.86, 5.3.87, 5.3.88, 5.3.89, 5.3.90, 5.3.91, 5.3.92, 5.3.93, 5.3.94, 5.3.95, 5.3.96, 5.3.97, 5.3.98, 5.3.99, 5.3.100, 5.3.101, 5.3.102, 5.3.103, 5.3.104, 5.3.105, 5.3.106, 5.3.107, 5.3.108, 5.3.109, 5.3.110, 5.3.111, 5.3.112, 5.3.113, 5.3.114, 5.3.115, 5.3.116, 5.3.117, 5.3.118, 5.3.119, 5.3.120, 5.3.121, 5.3.122, 5.3.123, 5.3.124, 5.3.125, 5.3.126, 5.3.127, 5.3.128, 5.3.129, 5.3.130, 5.3.131, 5.3.132, 5.3.133, 5.3.134, 5.3.135, 5.3.136, 5.3.137, 5.3.138, 5.3.139, 5.3.140, 5.3.141, 5.3.142, 5.3.143, 5.3.144, 5.3.145, 5.3.146, 5.3.147, 5.3.148, 5.3.149, 5.3.150, 5.3.151, 5.3.152, 5.3.153, 5.3.154, 5.3.155, 5.3.156, 5.3.157, 5.3.158, 5.3.159, 5.3.160, 5.3.161, 5.3.162, 5.3.163, 5.3.164, 5.3.165, 5.3.166, 5.3.167, 5.3.168, 5.3.169, 5.3.170, 5.3.171, 5.3.172, 5.3.173, 5.3.174, 5.3.175, 5.3.176, 5.3.177, 5.3.178, 5.3.179, 5.3.180, 5.3.181, 5.3.182, 5.3.183, 5.3.184, 5.3.185, 5.3.186, 5.3.187, 5.3.188, 5.3.189, 5.3.190, 5.3.191, 5.3.192, 5.3.193, 5.3.194, 5.3.195, 5.3.196, 5.3.197, 5.3.198, 5.3.199, 5.3.200, 5.3.201, 5.3.202, 5.3.203, 5.3.204, 5.3.205, 5.3.206, 5.3.207, 5.3.208, 5.3.209, 5.3.210, 5.3.211, 5.3.212, 5.3.213, 5.3.214, 5.3.215, 5.3.216, 5.3.217, 5.3.218, 5.3.219, 5.3.220, 5.3.221, 5.3.222, 5.3.223, 5.3.224, 5.3.225, 5.3.226, 5.3.227, 5.3.228, 5.3.229, 5.3.230, 5.3.231, 5.3.232, 5.3.233, 5.3.234, 5.3.235, 5.3.236, 5.3.237, 5.3.238, 5.3.239, 5.3.240, 5.3.241, 5.3.242, 5.3.243, 5.3.244, 5.3.245, 5.3.246, 5.3.247, 5.3.248, 5.3.249, 5.3.250, 5.3.251, 5.3.252, 5.3.253, 5.3.254, 5.3.255, 5.3.256, 5.3.257, 5.3.258, 5.3.259, 5.3.260, 5.3.261, 5.3.262, 5.3.263, 5.3.264, 5.3.265, 5.3.266, 5.3.267, 5.3.268, 5.3.269, 5.3.270, 5.3.271, 5.3.272, 5.3.273, 5.3.274, 5.3.275, 5.3.276, 5.3.277, 5.3.278, 5.3.279, 5.3.280, 5.3.281, 5.3.282, 5.3.283, 5.3.284, 5.3.285, 5.3.286, 5.3.287, 5.3.288, 5.3.289, 5.3.290, 5.3.291, 5.3.292, 5.3.293, 5.3.294, 5.3.295, 5.3.296, 5.3.297, 5.3.298, 5.3.299, 5.3.300, 5.3.301, 5.3.302, 5.3.303, 5.3.304, 5.3.305, 5.3.306, 5.3.307, 5.3.308, 5.3.309, 5.3.310, 5.3.311, 5.3.312, 5.3.313, 5.3.314, 5.3.315, 5.3.316, 5.3.317, 5.3.318, 5.3.319, 5.3.320, 5.3.321, 5.3.322, 5.3.323, 5.3.324, 5.3.325, 5.3.326, 5.3.327, 5.3.328, 5.3.329, 5.3.330, 5.3.331, 5.3.332, 5.3.333, 5.3.334, 5.3.335, 5.3.336, 5.3.337, 5.3.338, 5.3.339, 5.3.340, 5.3.341, 5.3.342, 5.3.343, 5.3.344, 5.3.345, 5.3.346, 5.3.347, 5.3.348, 5.3.349, 5.3.350, 5.3.351, 5.3.352, 5.3.353, 5.3.354, 5.3.355, 5.3.356, 5.3.357, 5.3.358, 5.3.359, 5.3.360, 5.3.361, 5.3.362, 5.3.363, 5.3.364, 5.3.365, 5.3.366, 5.3.367, 5.3.368, 5.3.369, 5.3.370, 5.3.371, 5.3.372, 5.3.373, 5.3.374, 5.3.375, 5.3.376, 5.3.377, 5.3.378, 5.3.379, 5.3.380, 5.3.381, 5.3.382, 5.3.383, 5.3.384, 5.3.385, 5.3.386, 5.3.387, 5.3.388, 5.3.389, 5.3.390, 5.3.391, 5.3.392, 5.3.393, 5.3.394, 5.3.395, 5.3.396, 5.3.397, 5.3.398, 5.3.399, 5.3.400, 5.3.401, 5.3.402, 5.3.403, 5.3.404, 5.3.405, 5.3.406, 5.3.407, 5.3.408, 5.3.409, 5.3.410, 5.3.411, 5.3.412, 5.3.413, 5.3.414, 5.3.415, 5.3.416, 5.3.417, 5.3.418, 5.3.419, 5.3.420, 5.3.421, 5.3.422, 5.3.423, 5.3.424, 5.3.425, 5.3.426, 5.3.427, 5.3.428, 5.3.429, 5.3.430, 5.3.431, 5.3.432, 5.3.433, 5.3.434, 5.3.435, 5.3.436, 5.3.437, 5.3.438, 5.3.439, 5.3.440, 5.3.441, 5.3.442, 5.3.443, 5.3.444, 5.3.445, 5.3.446, 5.3.447, 5.3.448, 5.3.449, 5.3.450, 5.3.451, 5.3.452, 5.3.453, 5.3.454, 5.3.455, 5.3.456, 5.3.457, 5.3.458, 5.3.459, 5.3.460, 5.3.461, 5.3.462, 5.3.463, 5.3.464, 5.3.465, 5.3.466, 5.3.467, 5.3.468, 5.3.469, 5.3.470, 5.3.471, 5.3.472, 5.3.473, 5.3.474, 5.3.475, 5.3.476, 5.3.477, 5.3.478, 5.3.479, 5.3.480, 5.3.481, 5.3.482, 5.3.483, 5.3.484, 5.3.485, 5.3.486, 5.3.487, 5.3.488, 5.3.489, 5.3.490, 5.3.491, 5.3.492, 5.3.493, 5.3.494, 5.3.495, 5.3.496, 5.3.497, 5.3.498, 5.3.499, 5.3.500, 5.3.501, 5.3.502, 5.3.503, 5.3.504, 5.3.505, 5.3.506, 5.3.507, 5.3.508, 5.3.509, 5.3.510, 5.3.511, 5.3.512, 5.3.513, 5.3.514, 5.3.515, 5.3.516, 5.3.517, 5.3.518, 5.3.519, 5.3.520, 5.3.521, 5.3.522, 5.3.523, 5.3.524, 5.3.525, 5.3.526, 5.3.527, 5.3.528, 5.3.529, 5.3.530, 5.3.531, 5.3.532, 5.3.533, 5.3.534, 5.3.535, 5.3.536, 5.3.537, 5.3.538, 5.3.539, 5.3.540, 5.3.541, 5.3.542, 5.3.543, 5.3.544, 5.3.545, 5.3.546, 5.3.547, 5.3.548, 5.3.549, 5.3.550, 5.3.551, 5.3.552, 5.3.553, 5.3.554, 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5.3.777, 5.3.778, 5.3.779, 5.3.780, 5.3.781, 5.3.782, 5.3.783, 5.3.784, 5.3.785, 5.3.786, 5.3.787, 5.3.788, 5.3.789, 5.3.790, 5.3.791, 5.3.792, 5.3.793, 5.3.794, 5.3.795, 5.3.796, 5.3.797, 5.3.798, 5.3.799, 5.3.800, 5.3.801, 5.3.802, 5.3.803, 5.3.804, 5.3.805, 5.3.806, 5.3.807, 5.3.808, 5.3.809, 5.3.810, 5.3.811, 5.3.812, 5.3.813, 5.3.814, 5.3.815, 5.3.816, 5.3.817, 5.3.818, 5.3.819, 5.3.820, 5.3.821, 5.3.822, 5.3.823, 5.3.824, 5.3.825, 5.3.826, 5.3.827, 5.3.828, 5.3.829, 5.3.830, 5.3.831, 5.3.832, 5.3.833, 5.3.834, 5.3.835, 5.3.836, 5.3.837, 5.3.838, 5.3.839, 5.3.840, 5.3.841, 5.3.842, 5.3.843, 5.3.844, 5.3.845, 5.3.846, 5.3.847, 5.3.848, 5.3.849, 5.3.850, 5.3.851, 5.3.852, 5.3.853, 5.3.854, 5.3.855, 5.3.856, 5.3.857, 5.3.858, 5.3.859, 5.3.860, 5.3.861, 5.3.862, 5.3.863, 5.3.864, 5.3.865, 5.3.866, 5.3.867, 5.3.868, 5.3.869, 5.3.870, 5.3.871, 5.3.872, 5.3.873, 5.3.874, 5.3.875, 5.3.876, 5.3.877, 5.3.878, 5.3.879, 5.3.880, 5.3.881, 5.3.882, 5.3.883, 5.3.884, 5.3.885, 5.3.886, 5.3.887, 5.3.888, 5.3.889, 5.3.890, 5.3.891, 5.3.892, 5.3.893, 5.3.894, 5.3.895, 5.3.896, 5.3.897, 5.3.898, 5.3.899, 5.3.900, 5.3.901, 5.3.902, 5.3.903, 5.3.904, 5.3.905, 5.3.906, 5.3.907, 5.3.908, 5.3.909, 5.3.910, 5.3.911, 5.3.912, 5.3.913, 5.3.914, 5.3.915, 5.3.916, 5.3.917, 5.3.918, 5.3.919, 5.3.920, 5.3.921, 5.3.922, 5.3.923, 5.3.924, 5.3.925, 5.3.926, 5.3.927, 5.3.928, 5.3.929, 5.3.930, 5.3.931, 5.3.932, 5.3.933, 5.3.934, 5.3.935, 5.3.936, 5.3.937, 5.3.938, 5.3.939, 5.3.940, 5.3.941, 5.3.942, 5.3.943, 5.3.944, 5.3.945, 5.3.946, 5.3.947, 5.3.948, 5.3.949, 5.3.950, 5.3.951, 5.3.952, 5.3.953, 5.3.954, 5.3.955, 5.3.956, 5.3.957, 5.3.958, 5.3.959, 5.3.960, 5.3.961, 5.3.962, 5.3.963, 5.3.964, 5.3.965, 5.3.966, 5.3.967, 5.3.968, 5.3.969, 5.3.970, 5.3.971, 5.3.972, 5.3.973, 5.3.974, 5.3.975, 5.3.976, 5.3.977, 5.3.978, 5.3.979, 5.3.980, 5.3.981, 5.3.982, 5.3.983, 5.3.984, 5.3.985, 5.3.986, 5.3.987, 5.3.988, 5.3.989, 5.3.990, 5.3.991, 5.3.992, 5.3.993, 5.3.994, 5.3.995, 5.3.996, 5.3.997, 5.3.998, 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23.3, 23.4, 23.5, 23.6, 23.7, 23.8, 23.9, 24, 24.1, 24.2, 24.3, 24.4, 24.5, 24.6, 24.7, 24.8, 24.9, 25, 25.1, 25.2, 25.3, 25.4, 25.5, 25.6, 25.7, 25.8, 25.9, 26, 26.1, 26.2, 26.3, 26.4, 26.5, 26.6, 26.7, 26.8, 26.9, 27, 27.1, 27.2, 27.3, 27.4, 27.5, 27.6, 27.7, 27.8, 27.9, 28, 28.1, 28.2, 28.3, 28.4, 28.5, 28.6, 28.7, 28.8, 28.9, 29, 29.1, 29.2, 29.3, 29.4, 29.5, 29.6, 29.7, 29.8, 29.9, 30, 30.1, 30.2, 30.3, 30.4, 30.5, 30.6, 30.7, 30.8, 30.9, 31, 31.1, 31.2, 31.3, 31.4, 31.5, 31.6, 31.7, 31.8, 31.9, 32, 32.1, 32.2, 32.3, 32.4, 32.5, 32.6, 32.7, 32.8, 32.9, 33, 33.1, 33.2, 33.3, 33.4, 33.5, 33.6, 33.7, 33.8, 33.9, 34, 34.1, 34.2, 34.3, 34.4, 34.5, 34.6, 34.7, 34.8, 34.9, 35, 35.1, 35.2, 35.3, 35.4, 35.5, 35.6, 35.7, 35.8, 35.9, 36, 36.1, 36.2, 36.3, 36.4, 36.5, 36.6, 36.7, 36.8, 36.9, 37, 37.1, 37.2, 37.3, 37.4, 37.5, 37.6, 37.7, 37.8, 37.9, 38, 38.1, 38.2, 38.3, 38.4, 38.5, 38.6, 38.7, 38.8, 38.9, 39, 39.1, 39.2, 39.3, 39.4, 39.5, 39.6, 39.7, 39.8, 39.9, 40, 40.1, 40.2, 40.3, 40.4, 40.5, 40.6, 40.7, 40.8, 40.9, 41, 41.1, 41.2, 41.3, 41.4, 41.5, 41.6, 41.7, 41.8, 41.9, 42, 42.1, 42.2, 42.3, 42.4, 42.5, 42.6, 42.7, 42.8, 42.9, 43, 43.1, 43.2, 43.3, 43.4, 43.5, 43.6, 43.7, 43.8, 43.9, 44, 44.1, 44.2, 44.3, 44.4, 44.5, 44.6, 44.7, 44.8, 44.9, 45, 45.1, 45.2, 45.3, 45.4, 45.5, 45.6, 45.7, 45.8, 45.9, 46, 46.1, 46.2, 46.3, 46.4, 46.5, 46.6, 46.7, 46.8, 46.9, 47, 47.1, 47.2, 47.3, 47.4, 47.5, 47.6, 47.7, 47.8, 47.9, 48, 48.1, 48.2, 48.3, 48.4, 48.5, 48.6, 48.7, 48.8, 48.9, 49, 49.1, 49.2, 49.3, 49.4, 49.5, 49.6, 49.7, 49.8, 49.9, 50, 50.1, 50.2, 50.3, 50.4, 50.5, 50.6, 50.7, 50.8, 50.9, 51, 51.1, 51.2, 51.3, 51.4, 51.5, 51.6, 51.7, 51.8, 51.9, 52, 52.1, 52.2, 52.3, 52.4, 52.5, 52.6, 52.7, 52.8, 52.9, 53, 53.1, 53.2, 53.3, 53.4, 53.5, 53.6, 53.7, 53.8, 53.9, 54, 54.1, 54.2, 54.3, 54.4, 54.5, 54.6, 54.7, 54.8, 54.9, 55, 55.1, 55.2, 55.3, 55.4, 55.5, 55.6, 55.7, 55.8, 55.9, 56, 56.1, 56.2, 56.3