

- B. Pipe shall be laid to slope gradients noted on drawings with maximum variation from true slope of the 10% of the inside diameter of the drain pipe, and in no case should the misalignment exceed 30mm.
- C. Pipe shall be laid to alignment with maximum variation from true alignment of the 20% of the inside diameter of the drain pipe.
- D. Pipe shall not be displaced or damaged when compacting.
- E. Colour marking tape shall be installed continuous over top of pipe, 300mm below finish grade, above pipeline.
- F. The Contractor shall ensure that the dewatering arrangement for the high ground water table areas are properly connected and working at all time.
- G. Generally pipes should be laid from downstream end to upstream end.
- H. Each pipe shall be laid accurately to line and gradient. The Contractor shall ensure that the finished pipeline is in a straight line both in horizontal and vertical planes. Satisfactory initial deflection test results shall be obtained prior to commencement of pipe laying. Steel pins driven into the trench formation shall not be used.
- I. An approved independent laboratory shall be provided to carry out tests by sand cone method to determine the in-situ density of the pipe bedding material as instructed by the Engineer.
- J. Where pipelines are to be constructed in the tunnel heading or duct provided by the Contractor, a minimum clearance of 150mm between the inside face of the tunnel heading or duct and the pipe shall be used, unless otherwise shown on the Drawings.
- K. A suitable method of controlling the alignment of a pipeline installed in a tunnel heading or duct shall be adopted, to the approval of the Engineer.
- L. When cutting pipe is required, the Contractor shall ensure that the cutting is done by machine, leaving a smooth cut at right angles to the axis of the pipe.
- M. When installing pipes, the Contractor shall ensure that the rubber gasket is inserted in the groove of the bell [spigot] end of the pipe, and the joint is cleaned and lubricated. The spigot end of the pipe to be jointed shall be laid with socket. Align and insert home in the bell end. A metal feeler shall be used to check the rubber gasket is correctly located.