

concrete cradles of adequate ground bearing area and separate them from the cradles by two pieces of saturated softwood packing each 200mm by 38mm and minimum 150mm long abutting endways at the inverts. Insert two hardwood wedges between the softwood packing and concrete block to assist in the final adjustment of line and level. Use wedges of not less than 200mm by 150mm tapering from 75mm to 25mm.

- e. Thoroughly wash down the concrete after the pipeline has been tested and approved by the Engineer. Carefully place and compact additional concrete Class 'C' thereon to avoid disturbing the pipes or joints until the appropriate profile for the type of bed or protection required has been reached.

Backfill trenches by hand with pipelines laid on concrete bed to a level 500mm above the crown of the pipe with selected excavated material free from large stones etc. in layers not exceeding 150mm. Carefully compact fill material by a method approved by the Engineer. Avoid disturbing the pipes or the joints.

- f. Carry out the subsequent filling of pipe trenches in accordance with Section 02223.

26.4.5.3 Installing Pipe Through Structures

- A. Ensure that pipes and pipe specials through concrete walls and floors are as far as possible located and built in during construction. Locate the pipe exactly in the positions shown in the Drawings. Ensure that the pipe is true to line and level. Ensure that fully compacted concrete is in contact with the pipe at all points.
- B. Where it is impracticable to cast pipes and specials in the concrete, form box holes in the shuttering. Form box of four, six or eight sides, depending on the pipe diameter. Form box no larger in size than will give adequate clearance for the subsequent positioning and grouting in of the pipe. Provide the sides of the box hole with a tapered central annular recess to provide a positive key. Provide the box hole with a grout hole and, at the top of the central annular recess with a vent hole. Strip the box hole from the main shuttering and thoroughly clean and roughen the concrete surface.