

**Tin Shui Wai Area 31 Phase 1  
Particular Specification 19.43**

SECTION 19 - PILING (Cont'd)

19.43 Replace GS clause 19.43 with the following :-

Underground  
Obstructions  
to Piles  
Types 1, 2  
and 4 only

When underground obstructions are encountered at any depth during piling operations, the Contractor shall at his own cost and time overcome such underground obstructions by any means he considers practical, which means of overcoming obstructions may include re-design of piles and/or pile caps, or the abandonment, extracting, and re-driving of piles, removal of underground obstructions by excavation, or by pre-boring through the underground obstructions. Provided always that

- (a) the full details of the means of overcoming underground obstructions intended by the Contractor shall be submitted by the Contractor to the Contract Manager for Approval prior to works being put in hand, which Approval shall not relieve the Contractor's responsibility for the design, construction, and completion of the Works in accordance with the Contract;
- (b) the Contractor shall allow sufficient time in his programme of works for obtaining the said Approval;
- (c) where such means of overcoming obstruction involves any changes to the design of the piles and pile caps accepted by the Employer at the formation of the Contract, any reduction in cost as may have resulted from changes shall be subject to deduction in accordance with the provisions of SOC clause 45; and
- (d) where underground obstructions are removed by excavation or pre-boring, the excavated materials shall be carted away and the boreholes or voids backfilled with Special Filling Material and well compacted all to Approval and at the Contractor's own expense. The preboring method which flushes away the fine materials in soil hence causes unacceptable ground settlement shall not be adopted.