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MODEL CLAUSES FOR CIVIL ENGINEERING WORKS

SECTION 122

BRIDGE INSTALLATION BY LARGE CAPACITY CRANE

NOTES TO SPECIFIER:

These notes do not form part of the Specification.

Scope

122.1

These Model Clauses have been developed for use in situations such as absolute possessions where a large capacity crane is to be used to erect a complete bridge structure or girder or to lift in a precast concrete bridge unit at a large radius. A typical example of this would be the use of a Gottwald AK680 crane with a 65 metre boom, capable of lifting a 200 tonne bridge into position. Essentially, the governing criteria for the use of this Section are where the crane will be required to be rigged following its arrival on the Site.

The Model Clauses contained within this Section do not apply to the use of tower cranes or small road mobile cranes. For the requirements applicable to such cranes, the Specifier should refer to the Technical Workscape Technical Module: General Requirements.

Similarly these Model Clauses do not apply in cases where multi-crane or tandem lifts are proposed.

In addition these Clauses are not applicable to the use of rail cranes. For these instances the Specifier should draft his own Clauses, whilst seeking guidance from the manufacturer and operator of such cranes.

Safety requirements

122.2

It should be noted that requirements applicable to the use of large capacity cranes, additional to the Clauses contained in this Section, are also specified in NR/SP/CPR/008 and in the Technical Workscape Technical Module: General Requirements as follows:

- (i) investigation of all services at the Site prior to setting up the crane*
- (ii) electrical overhead power lines (Technical Workscape)*
- (iii) a.c electrification overhead line equipment*
- (iv) positioning and operation on Site*
- (v) certification of the crane*
- (vi) maintenance back-up facilities*
- (vii) all crane operations*
- (viii) communications between supervisors, operators and banksmen.*