

SECTION I

SCOPE

I SCOPE

This Manual has been prepared for the purpose of standardising the preparation of drawings, simplifying various details and securing uniformity in appearance and style consistent with the subject involved, with resultant saving of time and effort.

This Manual contains information and advice for the detailing of drawings for bridges (including associated furniture), culverts, tunnels, concrete retaining walls and lined channels. The use of this information should lead to the best and most economical solution to many structural drafting and detailing issues.

This Manual has the purpose of maintaining a consistent quality of drafting standard for structural drawings prepared by or for the Authority or which will become the property of the Authority in the future.

This Manual sets out the minimum requirements for the preparation of drawings for bridges, culverts, tunnels, concrete retaining walls and lined channels that are required for the purposes of state records and all relevant sections should be read by all designers and drafting officers that are involved in the preparation of design documentation for the Authority.

For work commissioned outside of the Authority's Bridge Engineering Section, any request for approval to relax the standards set out in this Manual must be addressed to the RTA representative that commissioned the work and who must consider the matter in consultation with the Manager, Structural Drafting, the relevant Senior Bridge Engineer or the Principal Bridge Engineer prior to the commencement of any drafting work.

Where consultants have been commissioned to complete bridge designs for the Authority or the design of bridges which will become the property of the Authority in the future, the consultant shall supply the Authority with an A1 size set of the approved/accepted drawings on tracing paper, together with individual electronic drawings files (in either dgn, dwg, or dxf format) and a multipage pdf file that can be read by and stored on the Authority's equipment. See Clause 15.7 of this Manual.

Some of the requirements as stated in this Manual may not be required for construction purposes (eg setting out of the bridge deck as detailed in Clause 5.10), however the details are required to be provided in the drawings for the future management and maintenance of bridges, archival of records or other purposes associated with various functions of the Authority.

Where this Manual includes methods that are included in AS 1100.501, the Manual generally complies with the Standard. Any exceptions or deviations from AS 1100.501 are noted in the text as appropriate.

Any matters of drafting not covered by this Manual shall conform to the requirements set down in the various parts of AS 1100 – Technical Drawing – Structural Engineering Drawing and all other relevant Australian Standards.