SECTION 4

DRAWING SHEETS
AND
TITLE BLOCKS
4 DRAWING SHEETS AND TITLE BLOCKS

4.1 SHEET SIZES

The RTA’s Bridge Engineering Branch uses three standard sheet sizes for drawings and sketches. These sheet sizes are in agreement with the International Standard Sheet Sizes Series A and are suitable for microfilming.

All drawings and/or sketches produced by the Authority’s Bridge Engineering Branch or by Consultants for the Authority or for bridges that will become the property of the Authority shall be on a sheet with sizes being as shown in Table 4.1.

<table>
<thead>
<tr>
<th>ISO SIZE</th>
<th>OVERALL SIZE</th>
<th>MARGINS</th>
<th>CLEAR DRAWING AREA</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>841 x 594</td>
<td>56</td>
<td>14</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>771 x 566</td>
</tr>
<tr>
<td>A3</td>
<td>420 x 297</td>
<td>28</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>385 x 283</td>
</tr>
<tr>
<td>A4</td>
<td>297 x 210</td>
<td>20</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>283 x 183</td>
</tr>
</tbody>
</table>

Drawings provided for formal approval by the Principal Bridge Engineer or other delegated officer, shall be A1 in size and they shall be printed on tracing paper.

Drawings provided by consultants for formal acceptance by the Principal Bridge Engineer or other delegated officer, shall be A1 in size and they shall be printed on tracing paper.

4.2 TITLE BLOCKS

For work performed by the RTA’s Bridge Engineering Branch, cells have been created on the CAD System for each type of sheet used and these symbols come complete with the appropriate size title block, the size of which shall not be altered. The cell for each sheet type is stored in the Public Cell Library on the CAD System and can be readily accessed.

Title block dimensions and location for A1 size sheets are given in Figure 4.2.1(a). Title block dimensions and location for A3 size sheets are given in Figure 4.2.1(b). Title block dimensions and location for A4 size sheets are given in Figure 4.2.1(c).

The information that must be provided in the title block on each sheet is as follows:

- Road type and number eg Main Road No 246, Highway No 10
- Local Government Area name eg Shire of Byron, City of Greater Taree
  (Council names shall not be used – see Clause 4.5)
- Title and location of the bridge or structure
- Bridge Name (as appropriate for work on existing bridges)
- Work description (as appropriate for work on existing bridges)
- Plan Registration Number
- RTA Bridge Number (in the format BXXXXX)
- Sheet number and Issue
- Issue Status
Title blocks to be used on drawings prepared for the RTA by external consultants shall be submitted to the RTA for approval prior to commencement of drafting activities.

4.3 ORDER OF SHEETS IN A SET OF DRAWINGS

The order of the sheets in a set of drawings should follow the logical order of the construction procedure of the structure itself and shall be as follows.

- Cover Sheet
- General Arrangement
- Foundations (ie Piles, Pile and / or Footing Layout, Rock Anchors etc)
- Reinforced Soil Walls (if included in the Bridge Contract)
- Substructure (ie Abutments), Concrete Reinforcement
- Piers, Concrete Reinforcement
- Bearings
- Superstructure (ie Girders, Planks etc)
- Deck, Setting out (if necessary)
- Concrete (including accessories), Reinforcement
- Expansion Joints (as required)
- Cover Plates (as required)
- Barriers (if applicable)
- Approach Slabs (if included in the Bridge Contract)
- Bar Shapes Diagram
- Approach Slabs (if NOT included in the Bridge Contract)
- Reinforced Soil Walls (if NOT included in the Bridge Contract)

The Cover Sheet of any set of drawings shall be numbered 1.

Where there are too many sheets to be listed on the Cover Sheet of a set of drawings, a Contents Sheet shall be provided and the Contents Sheet shall be numbered 2.

Where a Contents Sheet is not required, the General Arrangement sheet shall be numbered 2 and each following sheet shall be numbered in sequence beginning with Sheet No 3, 4, 5 etc. Blocks of numbers for suites of sheets (ie for 100 for abutments, 200 for piers etc) shall not be used.

Where drawings are prepared by consultants, drawing numbers shall not contain the consultant’s reference numbers in any form.

The sheet number recorded in the title block of each sheet is subject to preceding sheets and is dependant on the number of sheets required to adequately illustrate each element of the structure.

Where more than one sheet is needed to adequately illustrate an element or elements of the structure, the sheet title, followed by Sheet A, Sheet B, Sheet C etc shall be shown both in the title block and in the schedule of drawings on the cover sheet of the set of drawings. The terms Sheet 1, Sheet 2 etc shall not be used.
4.4 STANDARD DRAWING SHEETS

Drawings sheets used for all work prepared by the RTA’s Bridge Engineering Branch shall conform to the current version of RTA Standard Bridge Drawing No RTAB001.

RTA Standard Bridge Drawing No RTAB001 is shown in Figure 4.4.1

For drawings prepared by the RTA’s Bridge Engineering Branch, the contact details given in the Title Block for the approving manager, as well as the approving manager’s title shall be amended as required.

For drawings prepared for the RTA by consultants, drawing sheets shall conform to the current version of RTA Standard Bridge Drawing No RTAB041. Where the drawings have been prepared for offices other than Bridge Engineering Branch, the details provided in the title block for approving officers shall be amended as required for each respective office.

RTA Standard Bridge Drawing No RTAB041 is shown in Figure 4.4.2.

Drawing sheets for all work prepared by Consultants for Design and Construct or Public Private Partnership type contracts shall conform to the current version of RTA Standard Bridge Drawing No RTAB100. Space is provided in the title block for the design consultant’s name and logo as well as the contractor’s name and logo. Reference file details, amendment / revision description, scales etc shall be entered in the respective spaces provided.

RTA Standard Bridge Drawing No RTAB100 is shown in Figure 4.4.3.

In all instances, the “Approved for Use” box and the standard drawing number box located on the drawing sheet, as well as their respective contents, shall be removed when the drawings are incorporated in a set of detail drawings.

4.5 LOCAL GOVERNMENT AREA NAMES

The name of the area of land in which the bridge is located, ie the Local Government Area (LGA) name, shall be in accordance with the information in Government Gazette notices. This information is contained in the LGA Listing prepared by the Land Information and Titles Section of the Real Estate Branch of the RTA and each LGA has been allocated a specific number. Where Local Government Areas are defined as either a shire, city or municipality eg Shire of Sutherland, City of Bankstown, Municipality of Leichhardt, this definition must be included in the LGA name in the drawing title blocks and on drawing set Cover Sheets. Where the Local Government Area is not defined as either a shire, city or municipality, the information included in drawing title blocks shall be as listed in the LGA listing as prepared by the letters LGA (eg Goulburn Mulwaree LGA, Great Lakes LGA).

Where a bridge can be identified as being in two Local Government Areas (ie where the LGA boundary is given as either in the middle or edge of a watercourse) the name of both LGAs shall be included in the title block and on the drawing set Cover Sheet, with the structure being registered under the LGA in which Abutment A of the bridge is located.

No reference shall be made to the name of the council that administers the area of land in which the bridge is located in the Title Blocks or on drawing set Cover Sheets, unless the drawings are being prepared for a Council Contract.
FIGURE 4.2.1(c)

ALTERNATIVE POSITION OF TITLE BLOCK

ROADS AND TRAFFIC AUTHORITY OF NEW SOUTH WALES

DRAWING:  SKETCH No:

CAD No  KP2F421C.dgn
RTA BRIDGE NUMBER
80
135
115

THIS DRAWING IS CONFIDENTIAL AND SHALL ONLY BE USED FOR THE PURPOSE OF THE NOMINATED PROJECT

ABC CONSULTANTS
PHONE
10 DESIGN CRESCENT
OLYMPIC PARK
SYDNEY NSW 2158
FACSIMILE

DIRECTOR
APPROVED     DESIGN QA RECORDS

ROADS AND TRAFFIC AUTHORITY OF NEW SOUTH WALES

FIGURE 4.4.2
TITLE BLOCK FOR
CONSULTANT DESIGNS