Ross Guppy, Director, Technical Products

Standard Drawings
The standard drawings group last met on 8 August with our next meeting scheduled for 4 October. At the last meeting the group finalised a number of drawing updates and reviewed all of the Parks drawings.

The group discussed the use of deflection bars, on bicycle paths and it was noted that many councils are moving away from these. The city of the Gold Coast has successfully used 300mm diameter bollards 1.8m high on Hope Island Road refer. The group will examine alternatives being used with a view to expanding the options available.

The Sunshine Coast gave an overview of their Open Space Landscape Infrastructure Manual (LIM), an online document which provides guidance during the design, development and delivery of Sunshine Coast Council controlled open space. The LIM is a living document which grows and evolves as Council’s needs change, products improve and technical information advances. You can find the manual by visiting the SCC website and searching ‘LIM’ www.sunshinecoast.qld.gov.au

The group also reviewed a number of the fence drawings including; GS-042, GS-043, GS-044, GS-045, GS-046, GS-047 and GS-048.

At the next meeting members will present their Council's Parks Standard Drawings for retaining walls, boulder walls, dry stack walls, pavement, board walks etc.

Queensland Urban Drainage Manual (QUDM)
The main QUDM document was published in early August and is available for purchase from the IPWEAQ website. However, work still continues to finalise the publication of the “Background Notes”. QUDM will assist engineers and stormwater designers in the planning, design and management of urban stormwater drainage systems in Queensland. It addresses technical and regulatory requirements, provides details of appropriate design methods and computational procedures and covers both hydrologic and hydraulic procedures as well as environmental and legal elements.

This engineering guideline is designed to be used in partnership with other design manuals on topics such as floodplain management, total water cycle management, water sensitive urban design, and natural channel design and needs to be applied appropriately to local conditions. It should however be noted that QUDM is not intended to be a floodplain management manual.

ADAC
ADAC continues to gain interest from across industry, with the most recent in-house day being held at Tweed Shire Council. We continue to raise the profile of ADAC and have demonstrated its capabilities to Queensland Audit Office Staff.

Following on from a discussion with Murray Erbs, I have made contact with Andrew Nixon of Wellington City Council. He will be seeking permission from the ADAC Strategic Reference Group to undertake a trial of the use of the Austroads standard and the meta-connect ‘data dictionary’ tool they use with ADAC and 12D. The Pilot work will be managed and partially funded by NZTA. Christchurch City Council will be doing the actual work.

At the time of writing this update ADAC V5.0 was essentially ready for release with production of the XSD files by Lion Systems. In addition we will have available:

- ADAC V5.0 HTM Diff Reports, which contains HTM files detailing all changes between the V4.2 and V5.0 schema’s.
ADAC V5.0 HTML Full Report which contains the HTML files and all associated document and images to view in a browser. This is in-lieu of the Mindmap view as we do not have that available yet. This HTML report allows the user to move back and forth through the schema and contains graphical views as well as the source code.

ADAC V5.0 schema, which contains all the revised XSD files, the ProjectArea XMP file and the Data Dictionary in XLSX format.

Sample ADAC V5.0 XML file, which contains a version 5.0 XML file of realistic data in MGA94 - Zone 56 coordinates. There is one of every asset but more for Sewerage and Stormwater due to disconnected capture.

The next step will be to pass on the schema to all Tool Vendors, SEQ Code for updating the Asset Information Specification and SAFE International for inclusion in FME Professional. Individual Authorities Capture Guidelines will also need revising to reflect the new schema.

Computer Aid Design (CAD) Standards working Group
This is a relatively new working group and we are looking to make the use of CAD as efficient as possible and to have a system that is uniform across councils so that drawings produced from each technician all look the same with uniform layering and styles etc.

As design models and drawings are also prepared by external consultants there will also be advantages when working across local government boundaries etc.

The group along with 12D have developed an IPWEA draft and are trialling it over a 3-month period. We will also be working with the Survey Group to ensure the work is aligned with their requirements.

The next meeting is scheduled for 9 November.

Survey Standards working Group
The Survey Standards working group will held its second meeting on 6 July to develop and finalise a naming code convention. A standard set of codes for underground utility locations in accordance with the AS-5488 standard has also been included. The additional underground service codes will enable those unable to attribute field data into their CAD package and still follow the same naming convention with each utility quality label being in its own model / layer. Colours and line styles will be discussed within the CAD group but will be set through the Survey working Group with a possible convention of W-QA, W-QC etc. (water quality A and C respectively) same for other services.

The group is looking to schedule its next meeting for late September.

If you have any queries about IPWEAQ’s Working Groups or wish to provide input, please contact me on 3632 6804 or Ross.Guppy@ipweaq.com.

PUBLICATIONS
www.ipweaq.com/technical

Standard Drawings
Standard Drawings for General, Drainage and Water Quality, Parks, Roads, Homeowner.

Complete Streets
Guidelines for Urban Street Design

Lower Order Road Design Guide
This guide offers a risk-based approach to lower road capital improvement.

Supervisor’s Handbook
For supervisors and staff working on local government projects in the field.

Queensland Urban Drainage Manual
For engineers and stormwater designers in the planning, design and management of urban stormwater drainage systems.