Design Standards Newsletter November 2010

THIS MONTH…

- Design Review and Accreditation reform update
- Designer Assurance Scheme
- Amendments to design standards
- New approved products and materials

DESIGN REVIEW

Hunter Water is in the process of creating a more robust Design Review system. The goal of this project will be to streamline the reticulation design review process.

The system is in development and over the next few months stages of the project will be progressively implemented, with the first stage detailed below.

DESIGN SUBMISSIONS

With the adoption of the integrated national design codes, there has been some discussion over what changes have been made and the expectations.

Hunter Water has updated the Designer's Checklist and produced example water supply and sewerage designs to demonstrate the new requirements. The drawing checklists have been adapted from the design codes and the drawings have also been prepared on the updated Hunter Water Civil drafting template.

Further details on the updated design checklists and the design submission example are available from the link below.

Link:
http://www.hunterwater.com.au/44.aspx

As the codes are no longer published by Hunter Water, Designers will be required to supply the relevant standard drawings and construction specifications (ie Part 3) to constructors. A requirement for Accredited Constructors to have a copy of the design codes will be introduced in the future.

ACCREDITED DESIGNERS

Coupled with the changes to the design review process are reforms to the Accredited Design Consultant Scheme. The key aspects of the reforms are based around setting design performance expectations that need to be met in order to maintain accreditation.

The reforms will also include a requirement for design checkers/certifiers to undertake training through and to meet the standards of the Water Services Association of Australia (WSAA) Designer Assurance Scheme.

Under the new scheme all current and prospective Accredited Consultants will be required to apply.

DESIGNER ASSURANCE SCHEME

WSAA has developed a reticulation design training package for water supply and sewerage reticulation.

Several HWC staff recently took part in some initial sessions conducted by WSAA and provided positive feedback on the course content and structure.

Local facilitators are being trained at the moment and courses are planned to begin early in the new year.

Courses will be scheduled to ensure that there are sufficient places for all consultancies wishing to maintain accreditation with Hunter Water.

Further details will be distributed to current and prospective Accredited Designers over the coming months Enquiries can be sent to standards@hunterwater.com.au

Updates November

DESIGN STANDARDS

HWC Design Manual Section 7 Reservoir Design

Following some recent reservoirs projects, design considerations, requirements and example drawings were documented and incorporated into the HWC Water and Sewer Design Manual as Section 7.

This Manual should be the starting point for any new reservoir design and details a mix of functional and technical requirements.

The document is available with other current sections of the HWC Design Manual at the link below.

Link:
http://www.hunterwater.com.au/3300.aspx

STS 500 – General Requirements for Electrical Installations

STS500 has been reviewed by the HWC Electrical Standards Group and updates made to several sections and clauses. Clause amendments are noted in the document history.

The updated document has been published and is available from the link below.

Link:
http://www.hunterwater.com.au/3299.aspx

STANDARD DRAWINGS

SCP 810-815 – Hinged Gas Tight Wet Well Covers

A new drawing series SCP810-SCP815 has been published at the link below for gas tight wet well covers. The design supersedes SCP801 - Sewer Pumping Stations Single Sliding Hatch Covers Hatch Cover Details and should be used for all new stations, renewals or cover replacements. The design includes openings in the mesh to allow access to level probes and for sewage sampling.

The design was developed for 1600x900 openings, however as the design was developed for retrofit applications there is a slight reduction in the clear opening. For all applications ensure that there is adequate clearance for pumps (ultimate design capacity) and all other equipment. It is also important to ensure the current station ventilation is functioning and sufficient when used to replace existing covers.

The design may be adapted for other openings or applications, however the designer is to ensure the design principles are maintained, in particular the weight of the hinged cover and the safety mesh as well as the load rating of the cover and mesh.

Link:
http://www.hunterwater.com.au/3302.aspx

PRODUCTS AND MATERIALS

The following changes have been made to the Water, Sewer and Electrical Registers:

Water

The following products were added:

- Vinidex / Saint Gobain Ductile Iron Pipe DN100-DN750
- Karon (Challenger) Resilient Seated Gate Valves

Product name change:

- AVK Air Valves (Formerly GK Industries Air Valves)

Sewer

The following products were added:

- Vinidex / Saint Gobain Ductile Iron Pipe DN100-DN750
- Karon (Challenger) Resilient Seated Gate Valves
- Tyco Alphacan DWV Fittings

Electrical

Changes to DC power supplies and minor changes to other product descriptions

Updated registers have been published and are available at the link below.

Link:
http://www.hunterwater.com.au/217.aspx

IN THE PIPELINE

The HWC Water and Sewer Design Manual Section 4 – Wastewater Pumping Station and Rising Main is being reviewed with the intention to adopt an integrated National Code, The Water Services Association of Australia (WSAA) WSA04 Sewage Pumping Station Code. A preliminary review has been completed and departures, variations and omissions are currently being assessed by a user group.

CONTACT

For more information on the amendments or for questions or suggestions on any of HWC's design standards contact the Standards Group at standards@hunterwater.com.au

Design Standards Links

Water Supply and Sewerage Codes:
http://www.hunterwater.com.au/3316.aspx

Design Manual Sections 4, 5, 6 and 7
http://www.hunterwater.com.au/3300.aspx

Standard Drawings
http://www.hunterwater.com.au/3301.aspx

Standard Technical Specifications
http://www.hunterwater.com.au/3299.aspx

Products and Materials Registers
http://www.hunterwater.com.au/217.aspx