



Welcome to the latest Hudson Civil News.

This Edition looks at more projects using the MASSBLOC product; Several HCP 2010 Projects; and also an interesting technical note regarding installation of small diameter concrete pipes.

AWIS – Product of the Month: NOVA SIRIA

Hudson Civil, through AWIS, is now supplying NOVA SIRIA repair clamps, restraint couplings and more for pressure water & sewer. For more information, visit www.novasiria.it

Nova Siria's motto – "what's special for others... is standard for us" – encompasses similar sentiment to HCP's "can-do" approach we strive to provide to you on every job.



AUSTRALIAN Water & Irrigation
Solutions Pty Ltd

FORMBY ROAD MASSBLOC

Hudson Civil has been supplying Shaw Contracting with the MASSBLOC retaining wall system as part of a solution to various design issues at the FORMBY ROAD REDEVELOPMENT works in Devonport. More than **1,000 blocks** will be required for this major project – *further details in our next issue*

FORMBY ROAD MASSBLOC;
Install speed critical with rail/road interface & confined work area

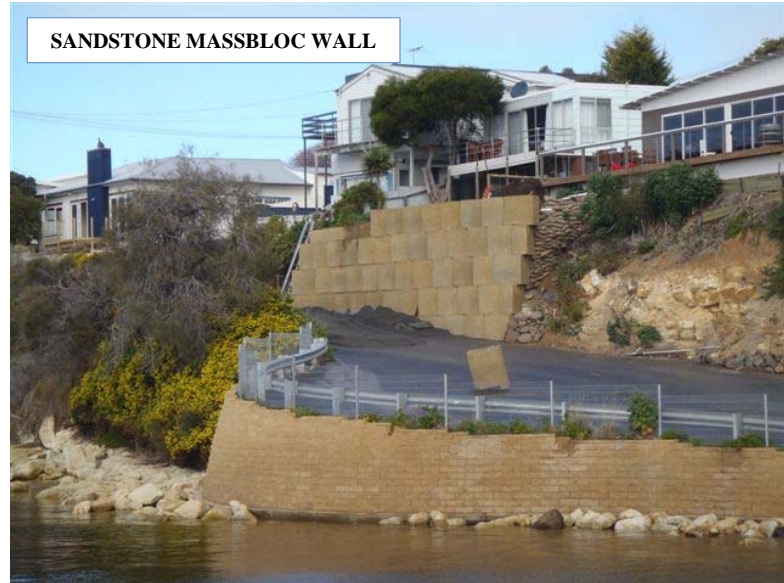


OPOSSUM BAY – SANDSTONE MASSBLOCS

Hudson Civil have supplied a Clarence Council project at Opossum Bay with Massblocs which are sandstone coloured – perfect for matching to existing landscapes or structures.



SANDSTONE MASSBLOC WALL



MassBloc®
Retaining Wall





DILSTON BYPASS WORKS – 3600x3600 RCBC

Hudson Civil has been supplying materials to **Shaw Contracting** on the \$42 Million Dilston Bypass Project throughout 2010, including precast concrete items, drainage elements, and geofabrics. In addition, **Hudson Civil** supplied precast Box Culverts and wingwalls to the major Stock Underpass on the project.

This 3600 x 3600 RCBC structure was a major link in the road construction, and demonstrates again **Hudson Civil's** capability as an outstanding manufacturer of all your Reinforced Concrete Box Culvert (RCBC) needs.



QUEECHY WASTEWATER PROJECTS

Following the successful project with **Shaw Contracting** in the construction of the new Queechy Wastewater Pumping Station, **Hudson Civil** through 2010 also teamed with Contractor **Paul Zanetto** who is the lead contractor installing more than two kilometres of new 450 OD HDPE rising main and associated works, including significant ductile iron pipe and fittings works. **Hudson Civil** was the major supplier of all elements to this project.

This complex project, which involved close liaison with both Paul Zanetto and staff as well as Ben Lomond Water, resulted in a successful project which navigated a difficult route with many challenges including wet ground, tidal river crossings, private land and two bridge crossings.



DICL & HDPE from HCP



CDS/ROCLA GPTs -TASMANIA TOUR

During October & November, Hudson Civil invited Andrew Clifton, Development Engineer with **ROCLA-CDS**, to tour Tasmania to meet with various interested groups. Andrew is also a representative of the Victorian Stormwater Group.

ROCLA provide various GPT options, including the outstanding **CDS range** which offers exceptional quality and the highest levels of treatment. **ROCLA** are able to complete full design services for your project – including using their acclaimed **SWATT ANALYSIS** technique to optimize your solution.

Andrew will be returning for **ROCLA-CDS** in early 2011 – please contact us to arrange a meeting should you wish to discuss any of your GPT or Water Quality projects.



BENCHED HCP MANHOLES – ATM CIVIL

Long time **Hudson Civil** supporters **ATM Civil** have in recent times been completing pre-benched manholes for their civil construction projects. The quality of the manholes and **ATM's** attention to detail means they can ensure accuracy, top quality benching, and waterproofing. A great result all round.





TECHNICAL NOTE – CONCRETE PIPE INSTALLATION

Hudson Civil is from time to time made aware of some issues associated with inappropriate installation of small diameter concrete pipe under roads. The CPAA (Concrete Pipe Association of Australasia) have recently provided some advice on this which you may find of use:

Installing small diameter pipe under roads

AS/NZS 3725:2007 “Design for installation of buried concrete pipes” outlines the minimum requirements for the installation of concrete pipes in Australia and New Zealand. It includes typical bedding and trench backfill requirements for installing concrete pipe, and outlines typical compaction levels that are necessary to ensure the requirements of the specified support type are met.

Unfortunately, too often the appropriate bedding techniques and/or poorly graded select fill materials are not employed and the minimum compaction levels for bedding and backfill are not met. Minimum compaction requirements are outlined in the Standard and it is vital that these are met, using the appropriate material. Whilst the Standard outlines these recommended minimum compaction levels for each support type, it does not provide recommended ways to check that these are being met on site.

One of the consequences of this is that concrete road culverts such as 225, 300, & 375mm diameter pipes become susceptible to circumferential cracking during construction and in service.

To assist specifiers and contractors achieve best practice in installation, the CPAA has released a Technical Note “Installing Small Ø Concrete Pipe Under Roads”. The document is an easy to follow guide designed to provide practical techniques to achieve the minimum compaction levels outlined in AS/NZS3725 and, importantly, be able to verify them.

The Technical Note also includes some practical information on the compaction testing of pipe support and foundation materials beneath road pavements outlined in a commissioned report by **Tonkin and Taylor Ltd**, for the CPAA. The compaction and testing guidelines provided are considered the minimum likely to produce compliance with the Standard.

The recommendations in the Technical Note also include testing methods using Scala Penetrometers and Clegg Hammers, and outlines how to interpret the readings in line with the soil density figures outlined in the Standard.

Prevention is always the best cure. To ensure that your concrete pipe road culvert requirements are not compromised, ensure that the appropriate installation techniques and testing requirements are included in your specification to comply with AS/NZS3725. For a practical guide on how to achieve this you can download CPAA Technical Note from the CPAA web site at www.cpaasn.au

Thanks to David Millar of CPAA for the information provided above.

For information on our range of Steel Reinforced Concrete Pipe (SRCP) and/or installation advice, please contact Hudson Civil on 6335 8220

**HUDSON CIVIL - THE TASMANIAN
DRAINAGE & CONCRETE PIPE
SPECIALISTS**

info@hudsoncivil.com.au



PIPELINE



Hudson Civil would like to thank you for your support again this past year and wish you a safe and happy Christmas.

OFFICE CLOSURES:

HOBART

We will be closing on Thursday the 23rd of December and will reopen on Tuesday the 4th of January 2010



LAUNCESTON – PLUMBING

We will be closing from the 24th of December and will reopen on the 4th of January 2011

LAUNCESTON – CIVIL/FACTORY

We will be closing on the 22nd of December and will reopen on the 10th of January 2010

**PLEASE NOTE - Plumbing staff do not have access to the Civil Yard or Factory and are unable to load civil products during this time.*

