D&H STEEL CONSTRUCTION

Vol.4 Issue 1
July 2013

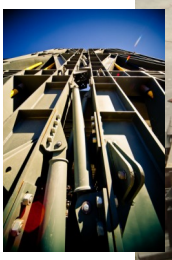
Update . . .

Teamwork Delivers Medical Centre Steel

Christchurch's rising demand for steel saw D&H and John Jones Steel combine their resources to meet the needs of the Kilmore Street Medical Centre project. "This approach," said D&H's General Manager Wayne Carson, "is all about local responsiveness and having the horsepower to meet tight project deadlines in a market that is demanding new levels of Quality Assurance and accountability."

Frank Van Schaijik, Managing Director of John Jones Steel in Christchurch, commented: "Our co-operation with D&H Steel on this project proved we can achieve capacity and performance with none of the risks that outsourcing to a foreign supplier often involves."

The lateral load-resisting system consists of coupled steel-braced frames — pictured (right) after fabrication in the D&H workshop, the first of eight pairs. These frames are able to rock in a seismic event. Post-tensioning via the yellow painted 75mm steel rods pulls the building back straight.

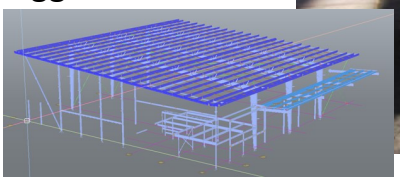


D&H provided 430 tonnes in seismic frames and seismic beams (equivalent to 25,000 man-hours of labour), plus 230 tonnes of cellular beams. The cellular beams reduce the height of each storey because the beam penetrations accommodate the air-conditioning and other services.

D&H at Uni. . . & other places

At the University of Auckland, as every Science Undergraduate will know, fume cupboards are essential in every chemistry lab. Fumes are safely exhausted via flue stacks, six of which are shown here. Each stack was made up of three sections of flues 8—10m long, lifted by tower crane and lowered into position for final rigging. “An ambitious method,” says Fletcher Construction Project Manager, Chris Tuxford, “but it worked well.”

At 28 Crooks Rd, East Tamaki, Dotmar Universal Plastics set up its production plant and got cracking not long after D&H’s Wayne Peachey finished the detailing. The builder was Kaipara Ltd, with Phil Turner as Project Manager. Buller George Turkington were the Engineers. Dotmar’s requirements were uncomplicated so the build was quick. No sooner had D&H’s riggers become used to the address than it was time to move on.



To tackle the $1.4-Billion Waterview Connection Project, NZTA appointed a specialist team known as the Well-Connected Alliance. It comprises local engineering companies and international partners with tunnelling expertise. When some extremely fast steelwork was required for temporary Alliance offices, D&H was happy to deliver: NZTA will ’inherit’ on project completion.

The structural design of the WCA’s Mt Roskill offices incorporates replaceable bolted links shown left.

We ratchet up our service & performance

Dean Pouwhare (on the left) has been appointed Operations Manager in a move that coincides with the appointment of Rob Purchase (on the right) as Workshop Supervisor. Well known to our clients as D&H's Site Manager, Dean now combines this with a new Operations role to ensure that our reputation for high quality service and performance is raised even higher through a seamless connection between workshop and site.

"This is a strategic move that will enhance the D&H offer to our clients," says General Manager Wayne Carson. "Dean will use his onsite experience with our rigging teams to further improve the output from our fully integrated workshop in Henderson. As part of this refinement, we welcome back Rob Purchase, a former 10-year veteran with D&H, who will provide Dean with the close support required of today's Workshop Supervisor. This will enable D&H to increase client benefits by the apposite positioning of our experienced people. That's what 'Experience our Strength' means."

Jacobs Ladder spans SH 1 with grace, shelter & an elevator

As part of the Victoria Park Tunnel project, the ladder and stair have been replaced by a new structure that connects to an enclosed footbridge spanning 10 lanes to Westhaven Marina. More than 100m long, the bridge was fabricated in five sections. These were site welded into two trusses and transported to site (the heavier truss weighed 77 tonnes). Night-lifted onto their support piers, the trusses were pre-cambered before being welded together.

The D&H detailers had to refine the design of the fixings for the plexiglass. Once their 3-D model was completed, it was used by the glass supplier to manufacture the panels to fit the fixings.

STEEL CONSTRUCTION

'Experience Our Strength'

Project Management
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D&H Steel Construction Ltd, 42 Brick St, Henderson 0610, Waitakere, NZ
PO Box 104257, Lincoln Road, Henderson 0654, Waitakere, NZ
Ph: 09 839 7250
Fax: 09 836 7169

www.dhsteel.co.nz

Key D&H People:

Mike Sullivan
Managing Director
Wayne Carson
General Manager
Dean Pouwhare
Operations Manager
Rob Purchase
Workshop Supervisor
Rod McIntyre
Commercial Manager
Mike Thompson
Detailing Manager
Colin Ross
Project Manager
John Frederickson
Custom Welded Beams
Jamie Moxon
Estimator
Adele Hikuroa
Accounts
Kevin Thomas
Purchasing Officer
Megan Aitken
Document Controller

For enquiries, call 09 839 7250
Pricing
Jamie— ext. 215
Custom Welded Beams
John—ext. 219
Metalwork
Colin—ext. 237
General
Wayne—ext. 205

We bring buildability to AMETI Phase 1

The $180-million first phase of the Auckland Manukau Eastern Transport Initiative (AMETI) saw Panmure Station fully operational while the D&H steelwork was installed. NZ Strong's Project Manager, Matt Hindle, praised D&H's buildability contributions. "In a project of this size, sequencing of secondary steel can be complex. D&H share the problems with us and turn obstacles into solutions."

The architect's render (above) provided by Opus. Below, pictures of Panmure Railway Station by Beca.

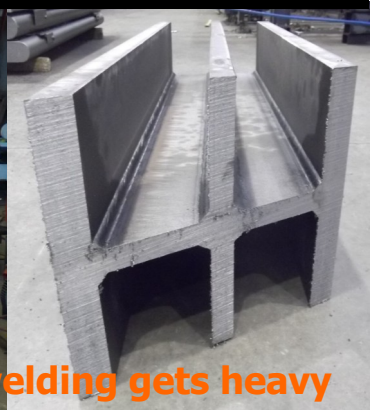
His Nickname is "Happy" !!!

His father gave it to him. "My older sister didn't mind that I was the son who made our father happy. We were in the Northern Punjab." Tejinder "Happy" Kumar is D&H's Parts Bay Supervisor. He manages the material traceability of all incoming steel from ordering to delivery by recording all the heat numbers. He monitors the beam line and the plate line. Changes in length, variations, nesting, constant liaison with the workshop— "I really love it! I find paying attention to details and relaying vital information, often on the fly, very satisfying!"

He joined D&H three years ago, got management's approval to study part-time at Unitech and qualified as a Quantity Surveyor. His marriage to Swapandeep was arranged and "she turned out to be my dream-girl. You could say we have kept up my family's tradition: daughter first, son, happily, second. I feel really on top of my job." And with a twinkle in his eye he adds: "You don't have to be smiling to be Happy!"

PFS Engineering fabricated the Launching Cradle (pictured below) for the Tunnel Boring Machine (TBM), which is to play a vital role in the Waterview Connection Project. The TBM weighs more than 2000 tonnes, so it was critical that all the pieces fitted well to reduce the shear stress on the welds.

D&H was asked to help. PFS Engineer Alex Mylchreest said: "D&H did a great job fabricating our custom welded beams. There were 22 main compression beams (see below right) each weighing 236kg and cut at a 60° angle. The four base members at 13.3m each weighed 2.4 tonnes."



Always ready to lend a hand when the welding gets heavy