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D&H STEEL PEOPLE + PROJECTS

+ PERFORMANCE



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EARLY SUBCONTRACTOR INVOLVEMENT KEY TO PROJECT SUCCESS

When there is Early Subcontractor Involvement in a project, that's when the magic happens.

The Early Subcontractor Involvement (ESI) model undertaken for the construction of the B507 Park West building at the University of Auckland was so successful that D&H Steel wished they could convince all clients of the benefits which allows jobs to run smoothly and effortlessly.

D&H Steel Director/General Manager Wayne Carson can't speak highly enough of the process and the great working relationship struck with the client team of Precon Project Management, RLB, Jasmax Architects and BECA early in the design process and then eventually with Hawkins Construction once they were appointed as Main Contractor.

Precon Project Manager Geoff Horne said the team had to establish a 20,000 sqm floor area in six months from design, consents, procurement and construction.

"We had no opportunity to push that out, so we advised the university that we had to do things differently and engage with key contractors early on."

It was a wonderful example of how you can achieve a quality building in a short time frame. "We thoroughly enjoyed working with Wayne and his advice was really useful," he said.

Wayne says savvy property owners know that to achieve best value, there needs to be solid early engagement with subcontractors to encourage the collaborative design process.

Continued inside



Client team inspecting fabricated steel in D&H Steel workshop ((L-R Ian Straka (Precon), Peter Maher (University of Auckland), Wayne Carson (D&H Steel), Alun Larsen (Hawkins Construction), Peter Fehl (University of Auckland))



STEEL CONSTRUCTION

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“One of the approaches D&H takes as a starting point with ESI is to establish a mechanism to determine fair price; we provide a very detailed transparent price schedule, giving full splits on labour and material costs so that everyone can see what makes up the cost and then measure how costs are affected by change through the design process as scope and detail develops.

We offer a ‘menu’ of cost build ups, which gives breakdowns on what each and every piece costs.

We joked that after initially agreeing the schedule and rates, as design developed, RLB were able to use our schedule and then tell us what the final price should be!

On this project, ESI gave us the opportunity to discuss ideas around the design table and we were able to offer up several big ticket items early that resulted in large ‘chunks’ of savings. There was one detail that involved considerable workshop labour, we were able to demonstrate that

by increasing the weight of the steel by approx. 60t and reducing the fabrication labour hours, we could save the client over \$200,000. This goes against prevailing wisdom but was embraced by all because we were all in the same team.” he said.

It is not only about best value. Buildability, time and risk is discussed at length. D&H believes that ESI result in jobs that are much less risk, significantly less variations and generally much better planned projects.

“By comparison, it is clear the traditional tendering process is flawed because it doesn’t capture the knowledge and experience of the specialist subcontractors. In our view, if best value and lower risk are amongst the objectives of good procurement then it’s essential that we can work from the start with the structural engineer, architects and cost planners. This ensures that there is much less risk and a more co-operative team from the start.”

Companies get in to trouble when their tender process is driven by the lowest price.

“It creates an adversarial environment and often in the end, the price goes up because the risks are higher.”

Views of the steel structure being erected on the University of Auckland B507 Park West project.



“This Early Subcontractor Involvement model on this project was so successful it has helped convince other ‘savvy’ clients to adopt on other projects moving ahead – it really is the way forward.”

OUT OF THE BOX THINKING FOR CHALLENGING PROJECT

The D&H team faced several obstacles building the structure for the five-level office development in Highbrook, South Auckland.

D&H’s Site Supervisor Jimmy Noble: “We had to put up the skeleton of the structure, four levels high, all in one go. It’s in a real wind tunnel and conditions were trying.”

The team had to support the structure with props to maintain stability while keeping enough room for the precast concrete. Space constrictions meant that the cranes could only work on the inside of the structure.

The job was a challenging project that was only able to be done thanks to the experience on the team, said Jimmy.



The finished building at Highbrook

Jimmy Noble
D&H Site Supervisor

KAIPARA GROUP FAST TRACKING TO SUCCESS



This project consisted of two industrial buildings (5,500 sqm and 3,800 sqm) and drew upon the in-house skills and experience to meet the challenging program.

D&H's Contract Manager Daryl Warren said our initial involvement was to do value engineering to facilitate cost and fabrication efficiency and enhance constructability.

"Kaipara Groups Phil Turner wanted us to get going on the job as soon as possible, so we developed connection options, got them approved by the engineer and that meant drafting could get underway."

BGT Structures were the consultants on the job and were very user friendly, so that made it easier to get the alternative options approved.

Above: 23 Allens Road buildings in construction

The office area in the second building had a complex roof design with half the roof being cantilevered so we fabricated and installed in one complete section. We also did some value engineering on the fascia support beams and developed a much simpler arrangement. Phil Turner said: "Overall the project has been another successful outcome."



SPIRAL STAIRS A WINNER

D&H Steel were thrilled to win the Steel Construction New Zealand (SCNZ) Excellence in Steel award in the \$500,000 to \$3 million category with the B:HIVE Stair.

The helical staircase at the B:HIVE co-working office in Smales Farm, Takapuna is an eye-catching, vibrant feature staircase and a talking point for visitors.

SCNZ said the awards celebrate New Zealand's excellence in the field of steel construction by identifying projects that demonstrate efficiency, cost effectiveness, application of sustainability principles, aesthetics, best practice, outstanding teamwork, great safety management and innovation.



Above: The award-winning B:HIVE staircase at Smales Farm

Left to right: Tamati Coffey, local MP; Colin Ross, D&H Steel; Stuart George, BGT Structures; Dr Barry Davidson, CompuSoft; Wayne Carson, D&H Steel and SCNZ Chair.



58 APARTMENTS BUILT ON TEAM WORK

In partnership with Dominion Constructors, D&H Steel fabricated and installed the steel structure for the high quality six level building of 58 apartments in St Mark's Road, Remuera.

D&H's Site Supervisor Heneliko Taimovai reckons the project went well overall. "Dominion are easy to work with; good communication makes life easier!" he laughs. Dominion Constructors Project

Manager Chris Broun says a typical challenge of this kind of construction was co-ordinating the precast and steel and making sure that it was built to the programme's specifications.

"We successfully negotiated this process with D&H, who made sure they understood the design and could participate and co-ordinate as well as trouble-shoot when required," he said.

Heneliko Taimovai
D&H Site Supervisor



AND THE WINNER IS...

Colin Ross presents Joyce Dobbs of Moller Architects with a \$200 voucher for Masu Japanese Robata Restaurant and Bar for winning the competition to celebrate D&H Steel's new website launch.

AUCKLAND'S MEGA MALL UPDATES

Auckland's two largest retail developments have passed the 50% construction phase and the scale of the projects is now apparent.



WESTFIELD NEWMARKET

OVERALL PROJECT COST	\$790M
OVERALL PROJECT AREA (SQM)	186,000
D&H STEEL SCOPE AREA (SQM)	90,000
STEEL	3,700T / 115,000 pieces



SYLVIA PARK REDEVELOPMENT

PROJECT COST	\$220M
AREA (SQM)	70,000
STEEL	4,000T / 60,000 pieces

COAST TO COAST 2019

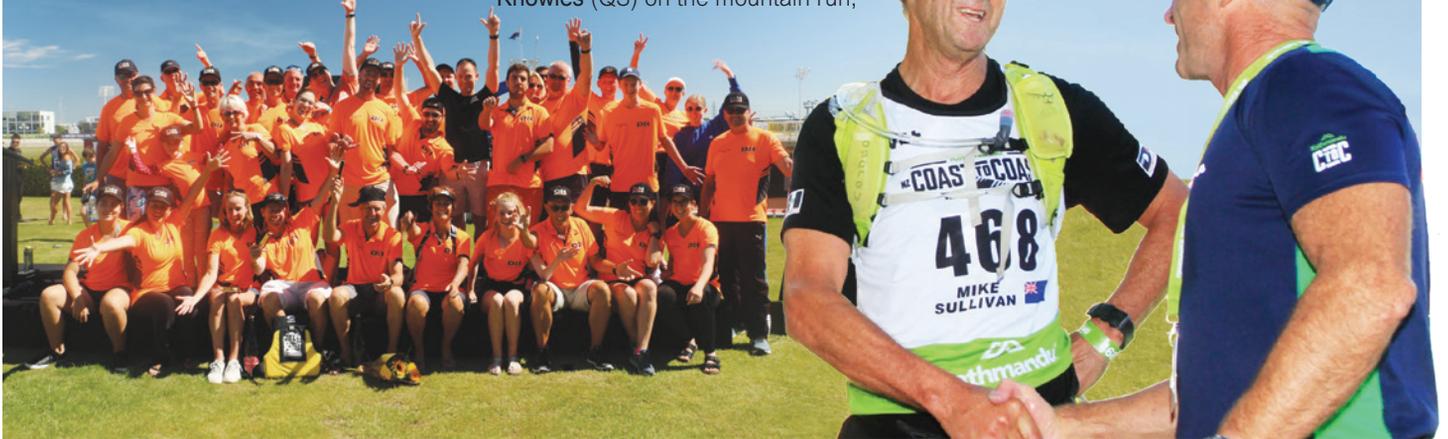
It was another successful team building exercise in the Southern Alps this year as D&H Steel staff, associates and friends made up ten teams and seven individuals in the 2019 Coast to Coast challenge.

Highlights included D&H Steel Managing Director Mike Sullivan winning the two

day Men's Individual Veteran division and Operations Manager Dean Pouwhare and his son Jared in a tandem team battling to finish, despite serious injury. Clearly, steel workers are tough!

Other team members successfully achieved their personal goals, Darryl Morrison (Detailer) and Desmond Knowles (QS) on the mountain run;

Richard Hine (Contracts Manager) and Mike Thompson (Detailing Manager) in the kayaks; David Haines (Detailer) on the cycle and Mark McKeown (Estimator) doing both cycle and the mountain run.



FARMERS SILVERDALE WRAPS UPS

The recently constructed Silverdale Mall is now complete and fully operational.

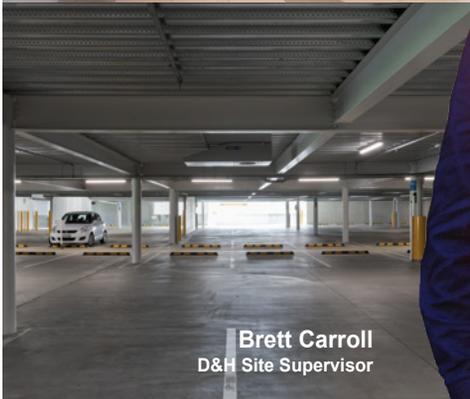
D&H Steel fabricated and installed the structural steel for this three-storey car park and open span retail complex including glass stairwells. Site Supervisor Brett Carroll and Site Manager Nick Yakas, alongside Farmers Silverdale Construction Manager Graham Keogh, led the D&H Steel team on a complicated build with several challenges to navigate.

The result of the building includes an impressive saw-tooth roof structure set at multiple striking angles. "It's a stunning building, it certainly looks the part," says Graham.

Graham commended D&H Steel for helping to overcome a few challenges on the project including a tricky slope made for a difficult site on which to manoeuvre large steel beams.

"The architecture of the building made for a complex project and we did encounter some challenges on the way," says Graham.

"However, I commend Nick Yakas and Brett Carroll on their prompt and practical approach to problem solving. If something wasn't quite working as planned, we'd do a quick drawing amongst ourselves of what it would look like, and the solution would get done smoothly and quickly."



Brett Carroll
D&H Site Supervisor

- + Project Management
- + 3D Modelling & Shop Drawings
- + Fabrication
- + Protective Coatings
- + Site Management & Erection

D&H was the first steel constructor in NZ to be awarded this International Quality Accreditation. We comply with ISO 3834 for the benefit of our clients.



ISO 3834 Part 2
Certificate No. 001NZ/2014

We were also the first to acquire Steel Fabricator Certification - a quality management system under the auspices of the IIW (International Institute of Welding).



We manufacture all the commonly specified welded beam and column sections and provide a free design service for optimised, tapered portal frames. Our CWBs are made from G350 steel and welded on both sides.



D&H STEEL STAFF SPOTLIGHT

MOHAMMED SAHEEN STEEL FABRICATOR

Mohammed has been with D&H Steel since 2003 and 5 years ago commenced an adult apprenticeship in structural steel fabrication.

Mohammed receives his certificate from Operations Manager Dean Pouwhare.



JUSTINE PURCHASE PROCUREMENT MANAGER

Justine re-joins D&H Steel as Procurement Manager after a break of 12 years. Since returning she has noticed that many of the tedious manual tasks have now been superseded with management information software such as Strumis MRP. After a couple of months back in the role, it feels like she never left the company.



RACHEL IBAMBASI WELDER APPRENTICE

It's great to have apprentice welder Rachel back on the team after being on maternity leave. Here she is with her baby George.



Quality Assurance Team- from left to right: Chris Rehman, Jody Gomes, Aristotle Bunalayo and Jan Viljoen. (Absent - Donnie Hiwatig)

JAN VILJOEN FABRICATION INSPECTOR

We welcome Jan Viljoen to D&H Steel. He joins the Quality Assurance team as a Fabrication Inspector. Jan has extensive steel fabrication and site installation experience from his previous roles in Johannesburg. He has been in New Zealand for one year and lives here with his partner and six-year-old son. Outside of work hours he enjoys family time and doing a spot of fishing.

ERIC BIRCH ERIC BIRCH PASSED AWAY ON 5 MARCH 2019

Eric joined the D&H Steel team in 1996 and gained the respect of people within the company and across construction sites. Mark Katterns of Hawkins Construction said "A totara has fallen, he was a rangatiratanga of the steel industry and will be a huge loss." Rest in peace, Eric.



Phone one of our team today on 09 839 7250. We'd love to hear from you.

Wayne Carson – Ext 205
Director/General Manager

Dean Pouwhare – Ext 217
Operations Manager

Mike Thompson – Ext 204
Detailing Manager

John Frederickson – Ext 219
CWB Manager

Richard Hine – Ext 225
Contract Manager

Colin Ross – Ext 237
Contract Manager

Daryl Warren – Ext 236
Contract Manager

Document Controller – Ext 225

Mark McKeown – Ext 206
Estimating

Jamie Moxon – Ext 215
Estimating

Justine Purchase – Ext 210
Procurement Manager

Adele Hikuroa – Ext 212
Accounts