



**ROADING  
NEW ZEALAND**  
BUILDING AND MAINTAINING NEW ZEALAND'S  
LAND TRANSPORT INFRASTRUCTURE

# STREET TALK

NEWS & VIEWS FOR STAKEHOLDERS IN NEW ZEALAND'S LAND TRANSPORT INFRASTRUCTURE



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**SPECIAL  
ROADING  
EXCELLENCE  
AWARDS  
ISSUE**

**Supreme Award Winner: Te Rewa Rewa Bridge and Coastal Walkway Extension Project**



Roding New Zealand Excellence Awards 2010

# Message from Roding New Zealand Chairman Cos Bruyn



Thanks to the roading sector for your ongoing support of the Roding Excellence Awards, the seventh year this event has been held.

It has been a challenging year for New Zealand, dealing with the devastating Christchurch earthquakes and the ongoing recession. These awards provide an opportunity to reflect on the great work that has been undertaken throughout the past year and to celebrate our achievements.

The Roding Excellence Awards are not just about acknowledging the hugely important contribution our industry makes to the New Zealand economy - they are also to recognise the improvements in health and safety practices, roading design and construction methods, the support of the people who work in our industry, and ultimately the value-added project delivery methods our industry is achieving.

We have seen several major roading projects come to fruition during the past few years, many of which have involved innovative procurement, groundbreaking technology and community engagement.

The Government Policy Statement on Land Transport funding confirmed the Government's commitment to the Roads of National Significance, along with support for the rebuilding of Christchurch. However, it will result in a reduction in road maintenance and rebuilding over the next ten years. We strongly support the Transport Minister's Roding Sector Task Force to encourage initiatives in the road maintenance and renewals area that will save money, without sacrificing the quality and sustainability of our industry.

Never has it been more important that we put our customers first and build those key transport routes right first time and ahead of time - after all, the successful transformation of our transport infrastructure is a key component of the economy's short term recovery and future growth.

Thirteen projects from throughout New Zealand were selected as finalists in this year's awards. These projects, undertaken by organisations including the NZ Transport Agency, local authorities, alliances, contractors and consultants, represent the breadth and diversity of our industry today.

I congratulate this year's winners and thank all those who participated to celebrate leadership, excellence and best practice in the provision of land transport infrastructure and collaboration in the roading industry. I thank all entrants for their valuable time and effort in submitting entries.

Finally, on behalf of Roding New Zealand, I'd like to thank our Awards sponsors - HireQuip, InfraTrain New Zealand, Winstone Aggregates, New Zealand Roding Solutions, Z Energy and GHD, without whose generosity these awards would not be possible.

Cos Bruyn  
Chairman, Roding New Zealand

*Front page: Te Rewa Rewa Bridge, part of the New Plymouth Coastal Walkway Extension*



# Manukau Harbour Crossing

Fletcher Construction, Higgins, NZTA and Beca (MHX Alliance)

Manukau Harbour Crossing is a 'Road of National Significance' and a key link in the Auckland transport and infrastructure network. It serves as an iconic gateway to visitors arriving from Auckland Airport.

The first competitive alliance to be undertaken in New Zealand, MHX has successfully delivered the \$230 million infrastructure project under budget and five months ahead of time.

The contract was awarded in September 2007 and was completed in August 2010. The team consisted of personnel from Fletcher Construction (constructor), Beca Infrastructure (designer), Higgins Contractors (constructor) and NZTA (Client and RCA).

The project involved upgrading an existing two lane motorway to three lanes and four lanes over the new 644m long



Mangere Bridge. MHX improved public transport connectivity by providing bus shoulder lanes and provisioned for a future rail link along the route. Three and

*The completed 644m Mangere Bridge.*

*(continued on page 4)*

**BELOW: The Beachcroft Footbridge.**



**What the judges said**  
"The NZTA, Fletcher, Higgins and Beca team is the first 'competitive alliance' for NZTA. The excellence achieved has already been widely acknowledged, the most notable award being the winner of the Alliancing Association of Australasia's Excellence Award in 2010. The Alliance's vision "to deliver such value that our stakeholders will be thrilled" was achieved by putting the 'customer first' with many innovative actions. One of the most successful was to increase the traffic capacity of the existing Mangere Bridge, northbound, early on, by creating an additional lane, thereby easing the afternoon traffic congestion and thus releasing 60% of the travel benefits some 11 months early. An outstanding project of which both the community and client are very proud."

# Manukau Harbour Crossing (continued)

(from page 3)

a half kilometres of pedestrian and cycle routes and two kilometres of major water-main infrastructure were also constructed.

The Manukau Harbour Crossing has delivered significantly reduced travel times between the airport and Auckland CBD. It has also provided much improved connectivity between the communities of Onehunga and Mangere Bridge. The benefit for motorway users alone is estimated at \$35 million per year and the economic benefit for the region is many times more.



**TOP: Pour it on.**  
**LOWER: Keeping the traffic flowing.**



**RIGHT: The completed project.**

**BELOW: Left to right - Matt Sturge, Alex Parfitt, Stuart Tucker, Dave Jewell, Mike Bennetts (Z Energy), Andrew Rose, Marcus Lin, Helen Cook, Grant Higgins, Transport Minister Steven Joyce.**



# SH20 Manukau Extension

Leighton, Downer, NZTA and Sinclair Knight Merz



The SH20 Manukau Extension forms the missing link connecting SH1 with SH20 and Auckland International Airport. This transformation comprises a 4.5km section of motorway linking SH1 at Manukau with SH20 at Puhinui. The project includes a triple level interchange connecting SH20 and SH1 at Manukau, and new diamond interchanges at Cavendish Drive at Wiri and Lambie Drive at Manukau City. The project also involved design and construction of earthworks and foundations for the Manukau Rail Link to connect Manukau City Centre with the main national rail network.

Unique aspects include:

- An intricate three level intersection which links SH20 to the Southern Motorway.
- A new motorway link through a narrow and constrained site with complex ground conditions.
- A project that has delivered outstanding value for NZTA as measured against alternative delivery methods, with minimal disruption to the community.

Construction began in November 2006 and was fully completed in January 2011. At an overall cost of \$320 million, the project completes the vital southern section of the strategic Western Ring Route in Auckland, bypassing the city to the west and linking Manukau, Auckland CBD, Waitakere and North Shore.

### Judges' comments

"There was a Customer First focus from the team in keeping all the existing roads and access to surrounding businesses open, maintaining pedestrian routes as well as looking after the needs of the motorist and the major stakeholders which included the Auckland Council, the Auckland Airport, the major utility companies, Kiwi Rail and the Wiri commercial and industrial community.

The Joint Venture's approach to collaboration included locating as many of the wider team in the same project office, which helped create a higher level of teaming between NZTA and their advisors with the JV team, thus driving alliance type behaviour which is not always achieved in a Design and Construct project.

The project is very impressive . . . it has been constructed with health and safety and the care of the environment being of top priority, along with achieving a high level of quality of the finished product. This is a credit to the team, well done."

**BELOW: Transport Minister Steven Joyce, Mike Bennetts (Z Energy), Tim Watterson (SKM), Glenn Houpapa (Leighton Works), Simon Paton (NZTA), and Ross Frisby (AECOM).**





Roading New Zealand Excellence Awards 2011

**New Zealand Road Solutions  
Excellence Award for  
a Medium Road Project**

**CATEGORY WINNER**

## East Coast Road Widening

Fulton Hogan, Auckland Transport, Resolve Group and GHD



A project team that embraced collaboration with a strong stakeholder management focus, procured through an innovative ECI hybrid model, delivered the project six months ahead of schedule, and \$1.5 million under budget.

East Coast Road is one of Auckland's major arterial roads, carrying more than 23,500 vehicles per day. To improve capacity and safety for all users, North Shore City Council needed to widen and upgrade the road, from Hastings Road to Rosedale Road, for a length of one kilometre.



*(Continued on page 7)*

# East Coast Road Widening (continued)

(from page 6)

A number of factors made the project challenging and unusual. Immediately adjacent to the site is Rangitoto College, the largest secondary school in New Zealand (3,500 pupils), a primary school, a busy shopping centre and a very popular Church with a thousand strong congregation.

The upgrade included widening for two additional traffic lanes, cycle lanes and intersection upgrades to improve access into the College and shopping centre parking.

Other significant elements included major services relocations, retaining walls up to 8m in height, storm water reticulation, street lighting, footpaths, kerb and channelling, and a new road surface.



## Judges' comments

"This project involved the widening of one of the country's major arterial roads through an extremely busy urban area of Auckland.

The project was complex, and demanded a high level of engagement with both the users of the road, and the affected property owners and businesses to avoid unnecessary disruption.

To achieve this, the road owner, the designer, the procurer and the contractor worked extremely well together to minimise disruption through excellent planning, innovative design, considerate scheduling and effective communication, particularly with the affected parties in the area.

Works were carried out wherever possible at times that minimised disruption, and all involved parties worked together to ensure that at times of concentrated effort everything went smoothly and met the planned timeframes set during the planning stages."

**BELOW: Left to right - Robert Lorden- Resolve Group, Nettie Bird – Fulton Hogan, Tony Adams – Fulton Hogan, Michael Kwok – Resolve Group, Tim Ford – Fulton Hogan, Transport Minister Stephen Joyce, David Proctor – GHD, Peter Everett – Auckland Transport, Simon Gullemin – Auckland Transport, Richard Page – Fulton Hogan, Sean Dowdall - GHD.**



**CATEGORY WINNER & WINNER OF THE RNZ SUPREME AWARD FOR 2011**

# Te Rewa Rewa Bridge and Coastal Walkway Extension Project

Whitaker Civil Engineering and New Plymouth City Council



In addition to being judged winner of the Excellence Award for a Minor Road Project, the judges awarded this entry the **Roading New Zealand Supreme Award**. This is presented to the most outstanding entry across all categories, based on the three key themes — innovation, best practice and collaboration.

In 2007, the New Plymouth District Council invited entries into a competition to design and build an iconic bridge that was to be 'simultaneously utilitarian and beautiful' on a site which is significant, both culturally and environmentally in order to create an extension to the Coastal Walkway. The stunning Te Rewa Rewa Bridge with evocative and ethereal style was the result.



Along with the extension to the internationally renowned Coastal Walkway, the bridge's unique style has quickly become a potent cultural symbol for the local community which has

embraced it as a destination, tourist attraction, marketing tool, landmark and piece of art. The bridge and walkway project has

*(Continued on page 9)*

# Te Rewa Rewa Bridge and Coastal Walkway Extension Project (continued)

(From page 8)

contributed to the local economy and greatly impacted on the quality of life and well-being of the community.

The bridge's slender asymmetrical design, attention to detail, extremely high quality fabrication and civil construction, the mammoth task of moving and installing the superstructure and success since its completion have meant that this project truly demonstrates engineering excellence. Its international award recognition, acknowledgment and success have contributed to building the reputation of New Zealand engineering.

Unique, challenging, innovative and economic means the bridge and walkway project has been a success beyond all client expectations.



**RIGHT: Transport Minister Steven Joyce, Darran Lees (Winstones), New Plymouth Mayor Harry Duynhoven, Chris Whitaker (Whitaker Civil Engineering).**

## The judges said

"A good project is one that meets its engineering objectives while an excellent project is one that meets both form and function but is built in sympathy with the environment taking into account any cultural issues.

The Te Rewa Rewa Bridge and Coastal Walkway Extension fits into the excellent category in that it serves the purpose of

providing walking, running and cycling access to an extra 4 KMs of coast line but does this in a way that fits into the historically significant land forms and at the same time enhances the environment. The bridge deck is aligned to the summit of Mt Taranaki while the skewed arch over the deck forms a gateway which signifies one is entering or leaving sacred land. The curved

ribs give a sense of the prevailing wind while the white super structure provides users with intriguing form in changing light conditions.

The excellent community involvement and the skills of the designers and contractors have combined to develop one of NZ's iconic bridges which give this project the WOW factor."



**HireQuip**  
**Industry Best Practice Award**  
**— Procurement**

**HIGHLY COMMENDED**

## Owenga Wharf Replacement

MWH

In possibly one of the most remote road transport projects undertaken in New Zealand, MWH was responsible for the investigation, design and construction supervision for building a new wharf at Owenga on the Chatham Islands.

Owenga Wharf is an important extension of the Chatham Islands road network for the local community with most residents relying on sea and land transport for their fishing and farming industries. The wharf provides berthage for the fishing fleet operating from Owenga township and enables vital boat access between Chatham Island and Pitt Island.

The original wharf had reached the end of its useful life. MWH undertook a rigorous and comprehensive procurement approach to bring together the best team to overcome the remote location, rugged conditions and to keep the wharf operational throughout construction. The client - Chatham Islands Council; consultant - MWH; and contractor - Hunter Civil / Makeri Joint Venture worked together to deliver a cost-effective and durable solution.



The new, improved, wharf, which has a life expectancy in excess of 50 years, was officially

opened by local MP Annette King in January 2010 to great community acclaim.

As well as delivering the long-term cost and maintenance expectations of the Council, it provides more berthage, allows more vehicles on the wharf at any given time, has increased loading capacity and provides greater safety than the old wharf. These improvements are of great benefit to the local community, visitors and tourists.

**ABOVE: Minister of Transport Steven Joyce, Andrew McDonald of MWH, and Scott Carrick, HireQuip.**

### Judges' comment

The building of a replacement wharf at Owenga on the remote Chatham Islands demonstrated an excellent team approach between the Chatham Islands Council, consultant MWH and contractor Hunter Civil / Makeri joint venture. A great small project in a remote part of New Zealand which was completed on budget and ahead of schedule.

# Fighting the long battle — managing staff through adversity

## City Care

A quiet and unassuming army of workers have been out in force since September 2010. They have been working hard, both day and night to provide Christchurch with essential services, with many returning home to the same issues they have spent all day or night fixing for others.

Emotionally, September 2010 was hard for City Care staff, but February 2011 was by far over and above anything they could have ever imagined. The full impact of these sustained events on staff will make itself known over time as stress and fatigue sets in, however City Care has plans in place to cope with these challenges.

As one of many contractors working to repair Christchurch, City Care faces a continual struggle to balance what is best for the few [employees] to ensure their health, safety and



welfare, while doing what is best for the many [residents]. This will inevitably continue for some time yet and City Care will continue to monitor its people to ensure their health, safety and welfare is maintained during times of heightened workload and personal stress. Going forward, City Care's

welfare systems will ensure their people feel supported as they spend the next few years rebuilding Christchurch.

### The judges said

The story tells of the actions that a company took to ensure that its staff were well supported and therefore better able to assist the wider community in their hour of need.

While the individual actions taken by the company were, in themselves, perhaps unremarkable, the total package was excellent and resulted in assisting staff with their personal concerns and needs. This meant that they were better equipped to undertake the emergency works required to assist the people of Christchurch during the aftermath of the recent earthquakes.

Actions taken to support staff working under considerable pressure not only provided the company with an effective workforce, but also grew respect for the company and its management, in the eyes of its employees.

**BELOW: Left to right - Hunter Morton, Tim Gibson, Graham Holmes, Onno Mulder (CEO City Care), Transport Minister Steven Joyce, Brian Jackson, Martin Walker, Stephen Bruerton, Peter Hansby.**



# Roothing New Zealand Excellence Awards 2011 Awards Dinner and Presentations, 29 August 2011

Here is a small selection of the many photographs taken at the Dinner and Prizegiving at The Langham, Auckland. More photographs are on the website — [click here](#) to view and download.



*The judges - Peter Hey, Paul Bishop, Robin Dunlop*



*Cos Bruyn, John Boocock, Nick Brown*



*Dr Ian Parton, Colin Crampton*



*Bernard Higgins, Derrick Adams, Dave Jewell*



*Kevin McKenna, Brian Warren, Hon Rodney Hide*



*John Bryant, Roly Frost*

# Roothing New Zealand Excellence Awards 2011

## Awards Dinner and Presentations, 29 August 2011

A few more of the many photographs taken at the Dinner and Prizегiving. Even more photographs are on the website — [click here](#) to view and download.



*Transport Minister Steven Joyce and Mike Howat*



*Margaret Holdsworth, Barry Gundersen, Bill Caradus, Brian Warren*



*John Hannah, Tony Lanigan, Colin Crampton*



*Hon Rodney Hide, Eugene Bowen*



*Jeremy Corbett, Hon Steven Joyce, Chris Olsen*



*Bernard Higgins, Mike Bennetts*