Hiko Power Engineering

LIMEBURNERS BAY

Building a Network from the Ground Up

THE PROJECT

Limeburners Bay is a 500+ home residential development in Auckland's north-west growth corridor. As a greenfield site, everything had to be built from scratch including the entire electrical network that would power the 500+ homes.

This wasn't a simple extension of existing infrastructure. The subdivision was designed as an embedded reticulation network: a self-contained distribution system built privately before connecting to Vector's public grid. For 2JC Electrical, that meant designing and installing a complete medium-voltage ring main configuration, transformer installations, and low-voltage distribution across multiple staged releases—all while ensuring full compliance with Electrical AS/NZS standards.

PROJECT SNAPSHOT

Electrical Contractor
2JC Electrical

Development
Limeburners Bay, Auckland

Developer
Landstone Developments & Aedifice Property Group

Network Operator
Embedded within Vector Network

Scale
560 houses, two subdivisions, one street

Hiko Equipment
Lucy Electric Ring Main Units, Hiko U-Pillars, Hiko LV Frame with metering.

"A big part of why Hiko is a preferred supplier for us isn't just the product, but the people and the level of service we receive. The willingness from your team to listen and adapt your offering to suit what we need really stands out.

That kind of service is becoming rare, and it's something we genuinely value. People still want to deal with people, and Hiko does that well."

Josh Colligan, 2JC Electrical

WHERE HIKO CAME IN

When 2JC Electrical needed ring main units for the medium voltage reticulation, they chose Lucy Electric RMUs supplied through Hiko. The ring main units were essential to the project's design, providing fault isolation, supply reliability, and flexibility as stages rolled out.

Our engineering team listened to 2JC Electrical and reviewed aspects of the installation and identified opportunities to refine specific elements for the site conditions. Rather than waiting for problems to surface, we worked alongside 2JC Electrical to adapt our products to meet the embedded network design. We created a ducted U-pillar with connections completely inside the unit rather than the normal external tails, and without compromising the IP4X feature tails to a conduit-based approach, routing the service cable inside the pillar. Changes were made efficiently, keeping the project moving without delays.

This kind of responsiveness matters. With large multinational manufacturers, product configurations are often fixed—what you see is what you get. We take a different approach. When site conditions call for adjustment, we have the capability and the willingness to engineer solutions that fit and future proof installation.

Hiko® Power Engineering

GETTING THE DETAILS RIGHT AT LV LEVEL

The low-voltage design incorporated approximately 290 Hiko U-Pillars across the development—one U-Pillar serving every two dwellings.

On the face of it, underground service pillars are straightforward fused enclosures. But integrating them within an embedded network requires careful coordination of layout, clearances, and compliance. One specific adjustment illustrates this well: during installation, 2JC Electrical identified that the standard meter tails approach wasn't optimal for the site conditions. In response, the configuration was modified to route the service cable inside the U-pillar via conduit—a change that better aligned with the electrical reticulation design and the realities of the site. Our engineers worked directly with 2JC Electrical to review and implement this field change, confirming compliance and ensuring it carried through consistently across the development. The result was a consistent, efficient installation methodology that carried through every stage of the development.

WHAT THIS DELIVERED

Seamless grid integration

The completed network now operates as a self-contained subdivision system, connected at a defined point to Vector's public distribution. By getting the internal reticulation right from the start, 2JC Electrical delivered a future proof network capable of supporting the community's long-term growth.

Reduced project risk

Our proactive engagement meant technical questions got answered quickly and potential issues were resolved before they became programme delays. For a project of this complexity, that responsiveness proved invaluable.

Scalable, repeatable infrastructure

With 290 U-Pillars and multiple RMUs deployed across stages, the project demonstrated what's possible when equipment, engineering support, and installation methodology all align.

WANT RESULTS LIKE THESE?

Give us a call on **0800 473 999**, send us an email to **sales@hikopower.co.nz** or visit our website **hiko.co.nz**