

AKL Update

Keeping you up-to-date with
building our airport of the future.



Major roading upgrade launches

Auckland Airport to add capacity and enable public transport on its roads

The multi-million dollar 'Northern Network' project will begin transforming the main entranceway into the airport, as well as providing critical support for new public transport connections.

During this project, George Bolt Memorial Drive, the main road into the airport from the north, will be widened to create high occupancy vehicle lanes, with shared pedestrian and cycle paths alongside.

Simultaneously, roads will be added to the airport network.

"Northern Network is about making access to the airport reliable, with the roading network resilient enough to cope with anticipated volumes in the years ahead," says André Lovatt, Auckland Airport's General Manager Airport Development and Delivery.

"Northern Network is a key project for Auckland Airport in that it is providing the roading infrastructure backbone for a multi-billion-dollar investment programme to support the future terminal and runway developments," he says.

A new one-way loop road will be built, allowing traffic to flow efficiently through a pick-up/drop-off zone at the international terminal before connecting back into George



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André Lovatt, GM Airport Development and Delivery



Artist impression

Bolt Memorial Drive. The new Altitude Drive will create additional roading capacity, allowing terminal bound traffic greater journey time reliability.

Alongside the contractor, construction firm Downer, Auckland Airport came together with mana whenua, Te Ākitai Waiohūa, in early July to bless the site. Downer will be onsite and beginning earthworks in August.

Most of the new roads and intersections will be finished by the end of 2020, while the intersection of George Bolt Memorial Drive and Tom Pearce Drive is more complex and construction work on this intersection

is scheduled to be completed in the middle of 2021.

“This project is one of a suite of transport and roading projects to take place allowing the growth of the airport, which includes the second runway,” André says.

“We know that any time there are roadworks on busy roads across Auckland it can affect traffic.

“We will be maintaining two sealed lanes in either direction on George Bolt Memorial Drive, just as there are today, but we need to keep our site workers safe and we will be asking road users to take care and plan their journey.”



André Lovatt
General Manager Airport Development & Delivery



Anchor project progress

Since the start of the year work has begun on two of the eight key projects that will anchor the airport of the future - the northern stands and taxiways and the northern road network.

Airfield

- 1 Northern runway
- 2 Northern stands and taxiways

Terminal

- 3 New cargo facility
- 4 New international arrivals
- 5 New domestic jet facility
- 6 Domestic terminal works

Transport

- 7 Pick-up / drop-off and Multi-storey carpark 1
- 8 Northern road network

Luxury hotel build begins

A stunning, uniquely New Zealand design has been revealed as we begin work on building a luxury hotel in the heart of the airport.

The Warren and Mahoney design infuses unique Waikato-Tainui cultural elements into the building, drawing heavily on the connection between land, sea and sky through the use of natural materials and light.

“The project is part of Auckland Airport’s multi-billion-dollar infrastructure investment programme, which will transform the airport over the next two decades,” says Mark Thomson, Auckland Airport’s General Manager of Property.

“The Pullman Hotel alone will generate approximately 300 jobs during construction and will then employ 200 people once the hotel is open.”

A highlight for many travellers will be the top floor restaurant and bar offering stunning views across the Manukau Harbour and Waitakere Ranges. Combined with onsite meeting rooms, it will be the perfect choice for business meetings.

Developed as part of a 50/50 venture with Tainui Group Holdings, who are our partners in the Novotel Tainui next door, the 5-star Te Arikinui Pullman will welcome its first guests in early 2020.



Mark Thomson
General Manager Property

Taking shape

- 311- room, 5-star luxury hotel operating under the Pullman brand
- Adjacent to the international terminal
- Developed in partnership with Tainui
- Takes its name from the chiefly title carried by the late Māori Queen, Te Arikinui Te Atairangikahu
- Will employ around 300 people during construction and 200 people when operational
- Designed by Warren and Mahoney
- Dominion Construction appointed to build.



Laying the groundwork for airport upgrade

Underpinning the multiple airport projects around the international terminal is a set of enabling works that lay the groundwork for a successful build.

Completed ahead of schedule, the job of forming a new section of road, rerouting underground pipes and cables, together with clearing the hotel site and running out utility networks to service the Pullman Hotel has wrapped up.

Drivers coming through the international terminal forecourt over the past couple of months will have noticed the construction zone to the side of the Novotel and an altered path for traffic leaving the terminal.

This six-month long project not only laid the groundwork for the hotel build,

it also put in place the utilities network to support the future expansion of the international terminal arrivals area.

Bob Eadie, development manager, Airport Development and Delivery, says the enabling works have been a great success, not only in providing the stepping stone for the continuing development of the airport but in delivering a complex, multi-site project without interrupting service to our customers and precinct users.

“It’s been great to work with a project team committed to providing reliability and delivering what it says on the side of the tin. From the designers to the guys manning the stop/go signs, they’ve been dedicated to delivering this project ahead of schedule.”

Construction of a bigger international arrivals area is set to kick off early in 2020, meaning both sides of the road will be a hive of activity for several years.

The enabling works project is also giving drivers the first hint of the new terminal exit road.

A short section of what will become the one-way loop road sweeping past the international terminal, through a new pick-up/drop-off zone, is now in place.

Right on target

- Road re-alignments and utilities relocation
- Enables construction of five-star hotel
- Completed three weeks ahead of schedule.

Raising the roof

An impressive 16-crane lift installing 7,000m² of roofing at a time is a significant milestone in the development of a new distribution and support centre for New Zealand's biggest supermarket business, Foodstuffs.

The purpose-built complex will bring together several Foodstuffs North Island operations, which includes PAK'nSAVE, New World, Four Square, Liquorland, Gilmours and Fresh Collective brands, and see the business move from the Mt Roskill site it's been based at for more than 50 years.

Not only is it an exciting project for Foodstuffs, it's been an interesting and challenging project for the Auckland Airport property team too.

"The Foodstuffs development is of a scale that is almost unprecedented in New Zealand, involving multiple contractors working closely together over the three-year period, including 26 different design agencies and three construction contractors on site simultaneously. This will be a significant achievement for all those involved in the project," says Mark Thomson, Auckland Airport's General Manager of Property.

"Foodstuffs were looking for a premium location for their new state-of-the-art facilities and saw value in relocating to The Landing, which offers award-winning design and connectivity through proximity to main arterial routes and aeronautical and cargo facilities. Foodstuffs will be a welcome addition to the leading businesses already calling The Landing home."

The scale of the build, with the resulting distribution centre among the biggest in New Zealand, meant preparing a site far bigger than Auckland Airport's "development ready" land reserves.

The innovative design featuring both the distribution centre and head office also means a high degree of project complexity, including the largest number of cranes used in a single lift in New Zealand to install the pre-assembled warehouse roof rafters.

"Five years ago, we set out a long-term plan to develop The Landing Business Park as New Zealand's premium business location," said Mark.

"We are delighted to welcome Foodstuffs North Island to The Landing Business Park."

It won't be just Foodstuffs staff who'll benefit from the project. Landscaping around the area will ultimately include 10 hectares of additional parkland beside Oruarangi Creek, featuring walking and cycling tracks.



The Foodstuffs development is of a scale that is almost unprecedented in New Zealand."

Mark Thomson, GM Property

Built for scale

- 75,500m² warehouse, equivalent to nine rugby fields
- Designed to supply non-perishable items to more than 100 supermarkets
- 9,000m² standalone head office
- Total facility to accommodate more than 1,000 staff
- Office Green Star 5 rating
- Completion early 2021.

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cranes complete the "roof lift" for the Foodstuffs building



Changes drive new carparking

As New Zealand families took off for the July school holidays Auckland Airport's newest carpark opened for business.

Taking nine months to build, the double-storey carpark at the front of Carpark E added 1,000 parking spaces just ahead of the holiday period.

The new carpark complements a new valet storage area on Nixon Rd. The first stage has been built with a neighbouring valet carpark set to be complete in November. When finished the two new carparks will add 1,200 spaces for our valet parking customers.

"Adding more carparking capacity now makes it easier when we begin planned construction in and around the international terminal," says Troy Lineen, Manager – Transport.

Carpark C, next to the Novotel, recently closed to make way for construction of the five-star Pullman Hotel.

Auckland Airport is planning to build a 3,500-bay multi-storey car park and pick-up/drop-off area connected to the international terminal through a large public concourse. Still in the design phase, this carpark will be built in what is currently Carpark A, directly in front of the terminal.

"As the airport transforms, we'll continue to provide a range of carparking options – from Park & Ride through to valet parking – for the thousands of people, including staff, who come to the airport each day," says Troy.

1,000
new parking spaces



First-class food for flyers

Global taste testers have been giving the international terminal upgrade its share of rave reviews.

From taking out top honours at the 2019 Airport Food & Beverage (FAB) Awards in Dallas, to pizza operator 400 Gradi being crowned best pizzeria in Oceania, the new look restaurant precinct is catching the eye of judges around the world.

According to the FAB judges, who are tasked with assessing the best and most innovative concepts in travel-related food and beverage around the

world, it was not only the international terminal's eclectic mix of high quality outlets, but transformation borne out of our refusal to accept the standard, old and outdated, mass airport dining options that clinched the supreme title.

Martin Moodie, Founder & Chairman of The Moodie Davitt Report and organiser of the annual FAB Awards, said Auckland Airport's overall success – and those of its individual operators – was particularly notable in the face of white-hot international competition, including some of the world's most

renowned airports, ones known for their outstanding food & beverage offers, such as Dubai International, Singapore Changi and Hong Kong International.

Richard Barker, General Manager Retail & Commercial at Auckland Airport describes the FAB Awards as the industry's global food and beverage "Olympics".

"Auckland Airport was competing with very high-profile global airports and we are absolutely delighted to have been recognised for our approach to creating an airport dining offer that Kiwis can be proud of," says Richard.

In other award news, for the second year in a row 400 Gradi, whose only New Zealand pizzeria is at Auckland Airport's international terminal, took out the title of best pizzeria in Oceania at the 50 Top Pizza Gala in Naples, Italy, in July.

Thousands of pizzerias from Italy and around the world vie for the award, with a secret evaluation deciding the top 50.

"As Auckland Airport continues to grow New Zealand's flight connections to the world, we are striving to deliver a quality experience for every customer that passes through our doors," says Richard.



Building in a digital world

Since opening, each of Auckland Airport's terminals has changed in layout, size and configuration multiple times. Services have become layered on, structures have changed, and walls have moved.

Keeping track of all this isn't easy but as we begin planning for our next stage of infrastructure programme it's important to have a complete picture of an asset – from the nuts and bolts to its steel framework, says Brian Rae, Asset Information Manager.



Helping Auckland Airport manage the scale and complexity of the work ahead, we have started a digital transformation journey."

Brian Rae, Asset Information Manager

"Helping Auckland Airport manage the scale and complexity of the work ahead, we have started a digital transformation journey to support our building programme and improve the way we manage our assets over their lifecycle, from early design through to end of life."

During the past two years, Auckland Airport has trialed and adopted integrated Building Information Modeling (BIM) and Geographical Information Systems (GIS) software – leading edge design technology that

has allowed us to start creating digital 3D replicas of our airport assets.

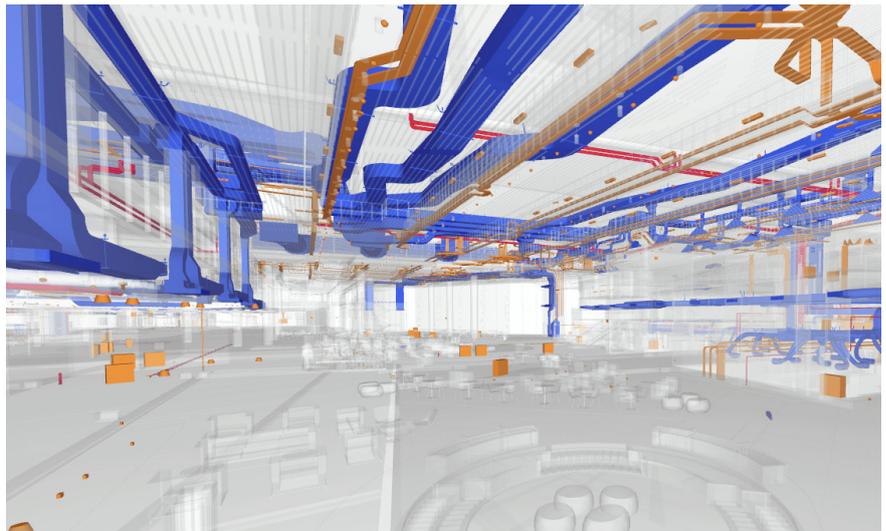
Blending geospatial and engineering, architecture and construction data, the technology allows designers to work together throughout every phase of a project. It provides a complete picture of an asset, helping project teams to streamline processes and resolve complex construction challenges ahead of building works beginning.

First tested on the 35,000m² redevelopment of the airside departure and dwell area in the international terminal, it was such a success we adopted the technology in full for the development of new gates at Pier B.

Mapping the structure of the existing international terminal involved the collation of existing 3D models

along with ground-based 3D laser scanning, to create a sophisticated replica. Designers and builders also contributed, modeling construction elements in detail, allowing the team involved to collaborate and analyse any issues in a digital world, without leaving the office.

With more than 200 projects planned over the next two decades, we're using the technology to create a complex model of future construction projects, called the 'Capital Works Master Schedule'. The model visualises complex sets of information in an easily understood manner. By linking 3D models to a time schedule and project costings, the team can assess workflow planning, logistics and other aspects of the construction process.



Digital view of existing and new buildings created with BIM technology.



As our works get underway, it could take longer to get to the airport.

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