Two temporary structures are literally bridging the gap at the Northern Approach Trench (NAT).

The twin bridges, each 40 metres long and four metres wide, will provide a continuous access way to supply precast ring segments and other supplies to the TBM Alice. It will also supply precast culverts and backfill to the culvert gantry in the second (northbound) tunnel.

“Previously we parked vehicles on a lower level bridge and used a crane to lift materials across to tunnel two during the initial drive period,” says Senior Design Engineer David Kubik.

“The bridges will allow for a more efficient and seamless transfer of segments. It also provides enough room for our structures team to build the permanent road decks either on either side of the bridges.”

Multi-purpose vehicles (MPV), which carry nine ring segments per load, will be able to travel through tunnel one across the bridge and out of the NAT. At that point the driver will switch cabs before driving back down the NAT across the other bridge and into tunnel two.

The efficiency of the bridges will help service Alice with an adequate amount of segments to line the second tunnel during her main drive.

“We will be able to deliver one MPV load every hour as opposed to the crane transfer which could only move three individual ring segments within the same time,” says David.

“The temporary bridges will certainly assist with the expectation to have her breakthrough at the southern end around October.”

HOW ARE WE DOING? IT’S SURVEY TIME.

The Waterview Connection project has been underway for almost three years and we’d like to know what you think. Please take the time to complete the short survey inside this Project Update. Send it back to us by 3 June and you will go in the draw to win one of four tickets to Alice’s final breakthrough celebration at Owairaka in October. The only way to get a place at this once-in-a-lifetime event is to win one!

ANNOUNCEMENT!

VALONIA STREET RE-OPENING WEDNESDAY 6TH MAY

Thank you to all the residents in the community who have waited patiently for the street to re-open.
Southern shared path comes to life

Work on the new southern shared path reached a significant milestone during April with concrete being poured. Site Engineer Christian Nicklin says the pour marks the beginning of the pavement work for the improved cycling and walkway connection.

“We started in January by excavating the alignment of the path and installing drainage before we did some preparation work behind the Maioro St retaining wall,” he says.

“The production of the segments cannot be halted and there is only so many that they can hold onsite. The motorway expands our storage capacity and ensures uninterrupted production at Tamaki.”

“We’ll be storing 2280 segments here. These will make up the final 228 rings that will be installed in the northbound tunnel,” he says. A total of 722 deliveries will be required to transport the segments (one segment weighs 10 tonnes) and with as many as 115 delivered a day the motorway extension is already getting a decent workout.

“The segments are transported in sets of three to the site. We have a crawler crane sitting on large mats and plywood as to not damage the permanent pavement,” says Devon.

“The crane grabs all three segments in a single lift and then places them on dunnage (loose wood / matting) that displaces the 30 tonnes load without damaging the pavement.”

Segments stack up

Hundreds of precast ring segments neatly stacked in the southern construction zone from Maioro St Bridge to the Southern Approach Trench have become a familiar sight for passers-by.

With the Segment Precast Facility at East Tamaki set to be disestablished later this year, our tunnel team is coordinating the segments stacks on the SH20 extension.

Logistics Engineer Devon Bainbridge tells us that storing the segments on the motorway is an efficient and economical solution for the project.

“It’s all on at Valonia Street

It has been a hub of activity at Valonia Street over the past couple of months with our team making strong progress on the area’s various works.

Site Engineer Mackenzie Boult tells us that the top half of the carpark and footpath access to the sport fields opened during April.

“We’ve constructed a retaining wall through the centre of the two level carpark and two further walls around the area for the volleyball court.”

“Drainage and ducting was laid and installed before the carpark was brought up to subgrade level. We’ve also started the enabling works on the footpaths that surround the field,” she says.

Construction has started on the new volleyball court and ablution block, during this work a large portion of the carpark will be fenced-off from the public.

“The new path will initially run between Maioro St Bridge and Oakley Creek Bridge. The segments do not affect daily traffic movements on the motorway which also acts as a haul road or the operation of our southern surface teams working in surrounding areas. The segments will start to be removed during spring.

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I receive timely information and have opportunity to give my comments on work that affects me.

I believe the Well-Connected Alliance genuinely wants to work with the community to deliver the Waterview Connection project.

I believe the Well-Connected Alliance will deliver an outstanding result for the Waterview Connection project.

Alliance personnel have responded appropriately to any question or query I have raised. (If you have not raised any then please leave blank.)

What area are you from? ____________________________

What information would you like to see more of in the monthly Project Update? __________________________________________

How would you like to receive information about the tunnels when they open for traffic? (Please tick the box after your preferred options.)

- Newsletters
- Direct mail
- Info day
- Website
- Radio
- Email
- News articles
- Social media
- TV
- Drop in centre

What information do you need about using the tunnels safely?

__________________________________________

__________________________________________

__________________________________________

Do you have any other comments on the project? ____________________________________________________________

__________________________________________

__________________________________________

__________________________________________

__________________________________________

A PLACE AT ALICE'S FINAL BREAKTHROUGH CELEBRATION EVENT IN THE SOUTH/OWAIRAKA.

Return this survey for a chance to win 1 of 4 tickets to this once-in-a-lifetime event. Don’t forget to provide your name and contact details so that we can get in touch with you if you win!

NAME ____________________________

ADDRESS ____________________________

EMAIL ____________________________  PHONE ____________________________