



LOOP ROAD SAFETY IMPROVEMENTS PROJECT



Earthworks and ground improvements are now well underway at Loop Road and the team have made great progress ahead of winter weather settling in. Site establishment works began in March, with tree felling along SH1, installation of steel roadside barriers and the setting up of the site compound near Loop Road (North).

A temporary road is taking shape on the eastern side of SH1 which will accommodate state highway traffic while the roundabout is under construction at Loop Road (North).

Construction of the single lane roundabout is due to be completed by early 2020, before the team moves down to begin intersection improvements at the Portland Road intersection.

The \$27 million SH1 Loop Road Safety Improvements project aims to be completed during the summer of 2020/21.

CONCRETE PILES

Concrete piles are currently being installed as part of ground improvement works to future proof the outer edge of the roundabout for additional capacity.

The process is called 'rotary displacement' and involves drilling a 450mm diameter hole into the ground with a feeder tube attached to the drill that then pumps concrete into the hole as the drill bit is being pulled out.

Between 15-17 piles are being drilled every day and piling work will continue until the end of August.



This is the spoils of the soil that stick to the drill bit, as it retreats back up when the concrete is simultaneously injected. This is very minimal excess compared to a normal drilling process due to the rotary displacement of the soil, meaning most of the soil is compacted and remains in the ground.

BOX CULVERT INSTALLATION

The existing concrete culvert under the state highway is not big enough to support the new intersection so 75 metres of new box culvert is being installed.

Sections of the box culvert will be installed on Loop Road (North) up to the existing highway, then traffic will be shifted temporarily to enable the final section across SH1 to be installed.

Trenching started in late-July and installation of the culvert is expected to take eight weeks to complete (weather dependent).



Fulton Hogan's Stakeholder Manager, Mel Norris, stands next to sections of the new concrete box culvert. Each 2m section weighs 4.7 tonne.

MEET THE CREW

More than 200 staff have been inducted onto the construction site since March - which gives you some idea of the number of people it takes to undertake a project of this size. To be inducted means you have completed the health and safety training necessary to enable you to go out on site.

Each project update will introduce you to the crew delivering the SH1 Loop Road Safety Improvements project. This month's focus is on the group of skilled women making things happen on site. Our regular day to day team includes:

Arden: a Site Engineer with Fulton Hogan and is looking after the concrete piling and culvert installation.

Mel: Fulton Hogan's Stakeholder Manager for the project, working across communications and relationships with our neighbours and community.

Sarah: Transportation Engineer with AECOM, assisting the Transport Agency in delivering the project.

Tiana: Project Engineer with Fulton Hogan, overseeing quality assurance of the project.

Vanessa: level 2 STMS for the project, managing traffic and the safety of everyone travelling through the project area.

Nicole: is our Projects Administrator. Nicole keeps our day to day running, reporting and accounts in check.



Arden, Tiana and Nicole outside the project site office on SH1



CONTACT US

If you have any questions about the project, please contact Fulton Hogan Stakeholder Manager Melanie Norris on **0800 577 623** or email us at northlandproject@nzta.govt.nz

Keep up with progress and sign up to receive regular updates at www.nzta.govt.nz/loop-road