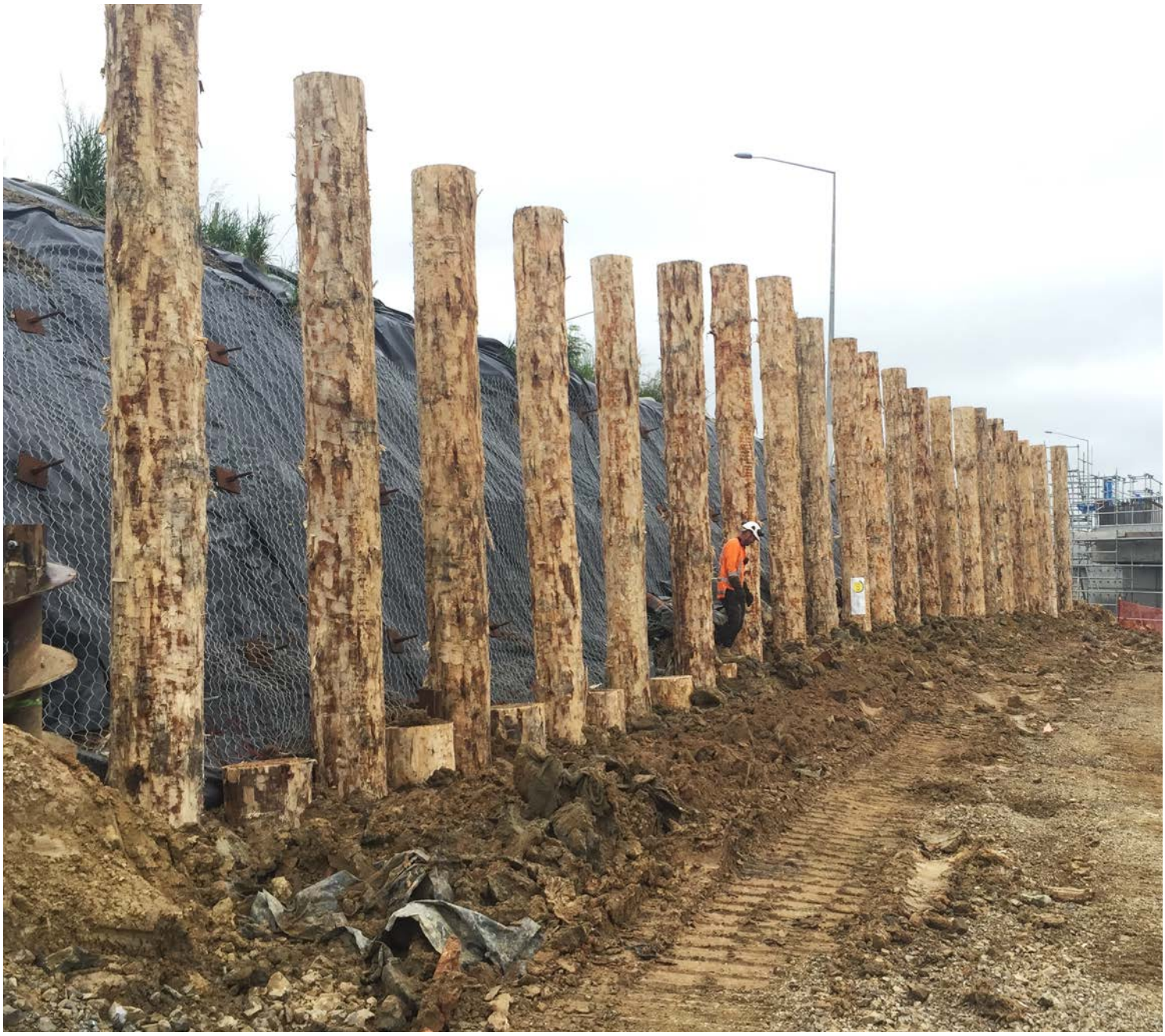
TTT Products

In-Ground Retaining Wall

using TTT Poles



TTT UGLIE POLES

TTT Uglie Poles were used to construct a temporary In-Ground Retaining Wall at the foot of a bank below a major motorway offramp. The site was located in Takanini, Auckland.

In-Ground Retaining Wall

Project background:

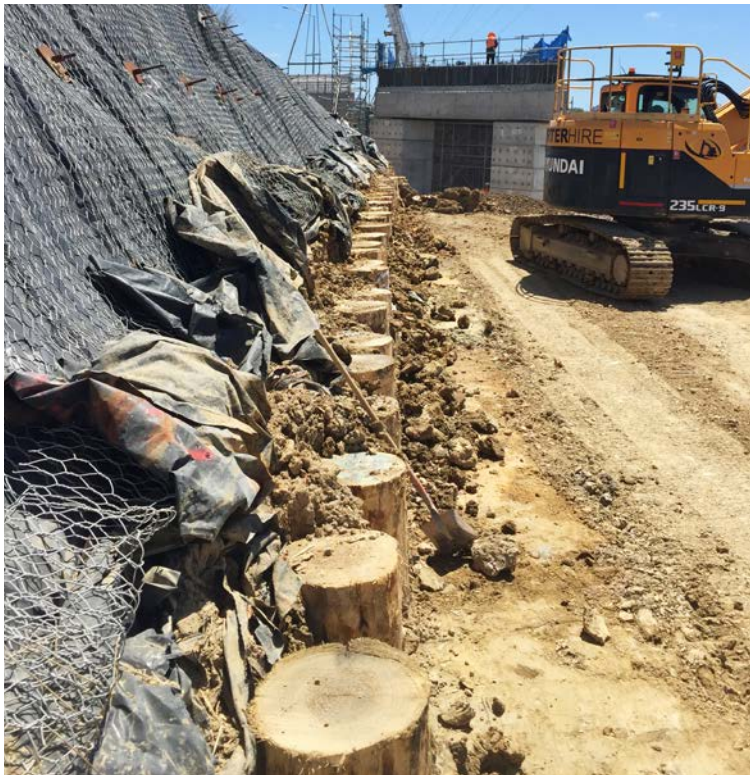
- A major motorway in Auckland was being upgraded with the position of the road and offramp being changed.
- A temporary In-Ground Retaining Wall was required to support the bank while works were in progress.
- The project was completed by the contractor in 2017.

Why use TTT Poles:

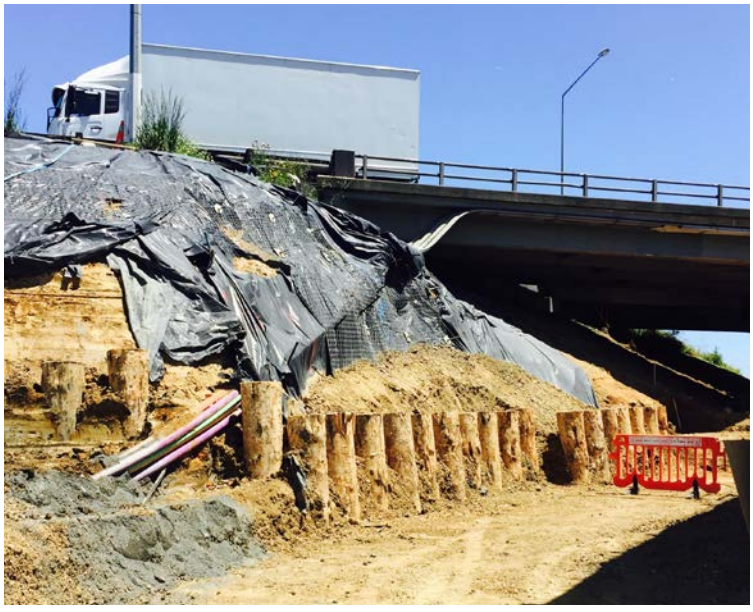
- The ground conditions were construction fill.
- Access was restricted.
- Installation needed to be rapid in order to meet the required deadlines.
- Poles, when compared with steel and concrete, are lightweight, easily handled, and installed using equipment with a lightweight footprint that can be quickly established on site.
- TTT Poles were identified by the contractor as being the most effective solution to achieve a rapidly installed In-Ground Retaining Wall solution to support heavy motorway traffic loads.

How TTT Poles were used:

- TTT Uglie Poles were ordered by the contractor. Due to the nature of the temporary works untreated poles were used.
- TTT Uglie Poles are similar to SED poles but are debarked rather than peeled. They offer greater skin friction when used as piles, and are stronger than SED poles.
- TTT supplied 85 pieces, 9.0m x 400mm Uglie Poles.
- The poles were installed with very close spacing. In order to achieve this the contractor installed every second pole for the length of the wall, then passed back to install the remaining poles. Installation was done this way so that densification was dispersed evenly between the poles allowing all the poles to be installed to the required depths.
- The contractor installed the poles using high frequency vibration. No concrete was used.
- The project was completed within 3 days.



Photos courtesy of Markovina Pile Driving



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