



Cargill

North Vancouver Grain Terminal Power System Upgrade

Project Overview

- Construction of new 69kV/12.47kV indoor substation c/w environmental safeguards
- Construction of one new electrical room and modifications to three existing electrical rooms in the existing plant to house 12.47kV/600V Unit Substations
- New cable feed to Ship Loader
- New cable feeds to plant's existing Motor Control Centres (MCC) from new Unit Substations
- Demolition of existing 69kV switchyard

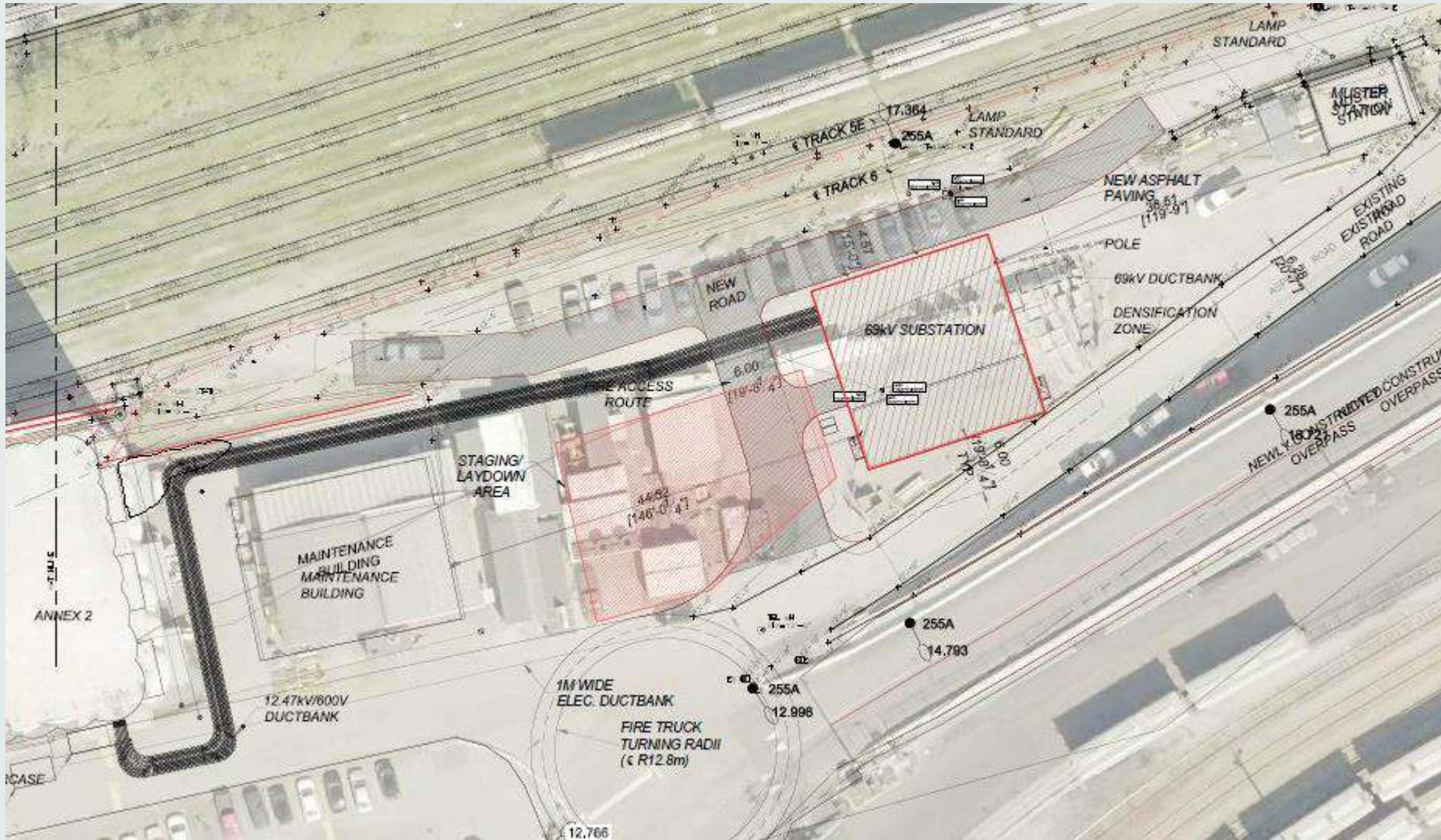
Cargill Grain Terminal, Working Areas



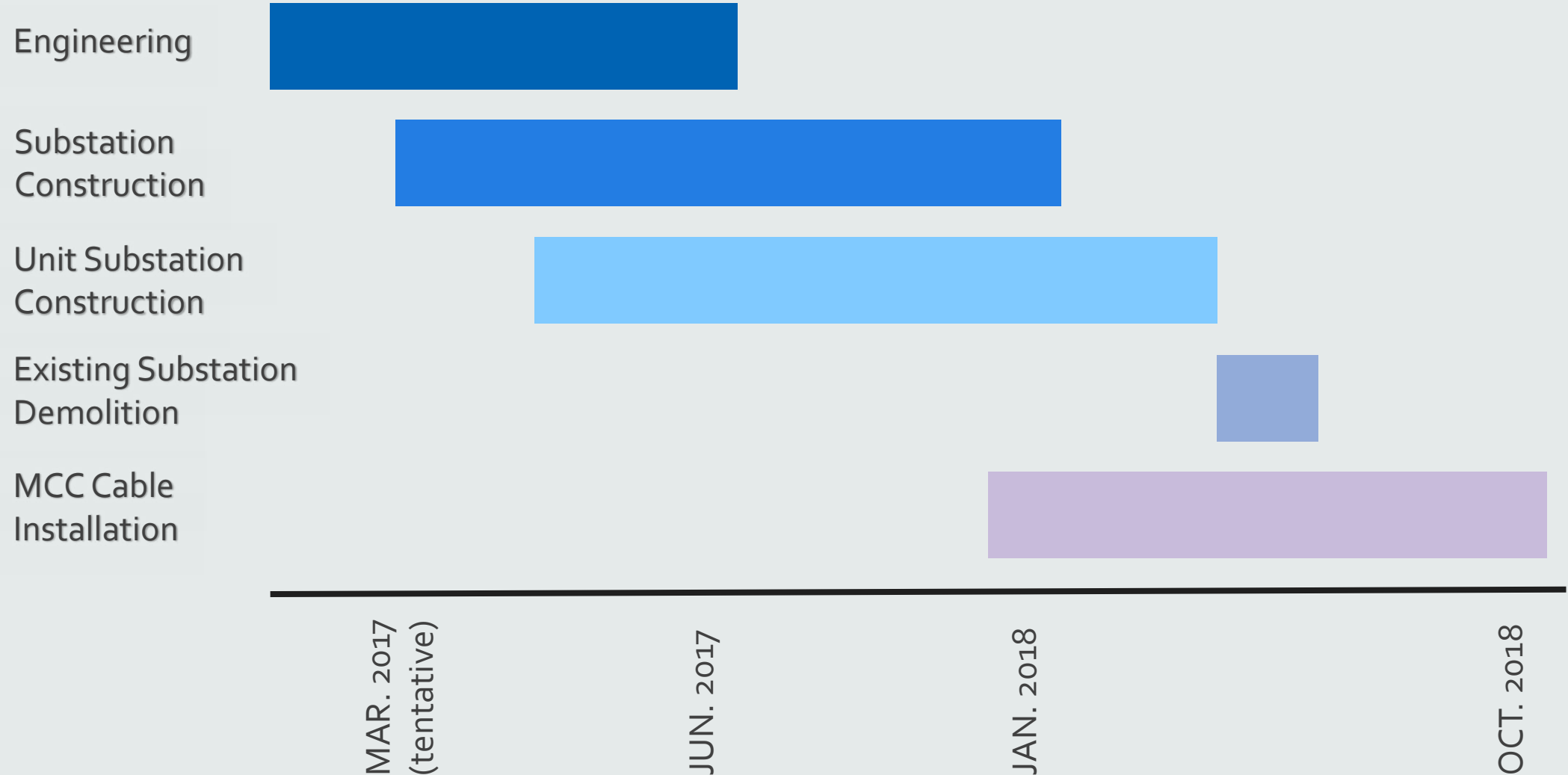
Architectural Rendering of Proposed Substation Building



Proposed Site Plan



Project Timeline



Benefits of Proposed Project

- Safe working environment for High Voltage operations
- Substation building structure designed to meet current seismic and building code guidelines
- Modern equipment designed to be more environmentally conscious (e.g. PCB-free vegetable-oil-insulated power transformers)
- Improved efficiency due to reduced electrical losses

Potential Impacts of Project

- Virtually no impacts on everyday life of the surrounding residential and industrial community

Potential Construction Impacts:

- Additional noise due to construction activities such as soil densification, concrete formwork and steel erection – during normal working hours
- Traffic will increase as equipment, concrete and building supplies are trucked in and later as rubble from the demolition is removed

Construction Impact Mitigation:

- Construction Environmental Management Plan:
 - Site environmental inspections
 - Construction waste management plan
 - Environmental incident reporting
 - Spill response plan
 - Procedures to store, transfer and dispose of hazardous waste
- Soil Management Plan:
 - Soil testing and monitoring
 - Isolation and removal of contaminated soil
- Hazardous Materials Assessments for Demolition Works

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