

# The design and construct process

1.

## Resource Management Act (RMA) approvals

- Design for the project developed
- Noise modelling conducted
- Noise mitigation evaluated in accordance with New Zealand Standard 6806
- Council independent commissioners considered resulting noise effects and recommended conditions to control noise effects.

2.

## Tendering for construction

- Specimen design prepared based on design used in RMA process
- Tenderers sought improvements to the design and made modifications
- Tenderers conducted noise modelling and adjusted mitigation measures if required
- Tenderers confirm any changes to the design fit within the conditions
- Winning tenderer appointed

3.

## Construction design

- Design and Construct contractor further refines and develops construction design
- Design and Construct contractor's acoustics specialist models construction design and adjusts mitigation if required to meet conditions and standards
- Final noise mitigation and modelling documented in a Noise Mitigation Plan
- Noise Mitigation Plan shows if noise effects remain within the specified conditions

4.

## Project is constructed

- Contractor implements construction management plans which detail how they will manage construction noise, vibration and any environmental effects during the construction phase
- Contractor works within consented conditions for construction approved by the local and regional authorities

5.

## Post construction

- Design and Construct contractor conducts verification checks to confirm the noise mitigation has been constructed in accordance with the Noise Mitigation Plan