

PART G53
NOISE MITIGATION TREATMENTS

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1. GENERAL

- .1 Where the noise assessment in Part D19 Design - Environmental has determined the need to provide Noise Mitigation, the following Part applies.
- .2 Noise mitigation treatments shall be designed and provided in accordance with the requirements of the following:
 - (a) *DPTI Road Traffic Noise Guidelines (RTNG)*;
 - (b) *EPA: Guidelines for the assessment of noise from railway infrastructure (EPA GANRI)*; and
 - (c) *DPTI Noise Mitigation Manual*.
- .3 Where noise treatment is required, priority shall be given to treating the noise at the source, to applicable standards, over treatment at the receiver. Noise treatment measures shall be approved by the Principal.
- .4 Where noise criteria are unable to be achieved with the maximum barrier height specified in the RTNG, the Contractor shall seek approval from the Principal to provide property facade treatments.
- .5 The following documents are referenced in this Part:
 - (a) *DPTI Road Traffic Noise Guidelines (RTNG)*;
 - (b) *PA: Guidelines for the assessment of noise from railway infrastructure (EPA GANRI)*;
 - (c) *DPTI Noise Mitigation Manual*;
 - (d) Part G50 "Environmental Management Requirements"; and
 - (e) Part CH50 "Environmental Protection Issues".

2. NOISE BARRIERS

- .1 The Contractor shall provide noise barriers where required by the noise assessment undertaken in Part D19 Design – Environmental.
- .2 Where noise barriers are proposed to be located on the property boundary (private, Local Government, etc) the Contractor is responsible for:
 - (a) installing the noise barrier as per the design requirements;
 - (b) undertaking all necessary community engagement and negotiations to enable noise barrier implementation;
 - (c) identifying the existing conditions of the property to enable appropriate reinstatement;
 - (d) obtaining a *Deed of Consent and Agreement* signed by the property owner(s) and co-signed by the Commissioner of Highways (unless otherwise specified by the Principal) prior to undertaking the works, including seeking agreement on details such as finishes and make good provisions. An example of *Consent and Agreement* can be found in the DPTI Noise Mitigation Manual;
 - (e) schedule works and arrange access to the property with the owner(s) identified in the *Deed of Consent and Agreement* or the owner(s) representative (e.g. property management person) as nominated by the owner(s). This will also require seeking an access agreement with any property tenants;
 - (f) ensure the property is secured to 'lock up' standard overnight or when the Contractor(s) are not on site; and

- (g) obtain a signed Completion of Works certificate when the works have been accepted as complete being co-signed by the property owner(s) and the Contractor's Representative.
- .3 The Contractor shall not undertake property works until the *Deed of Consent and Agreement* has been signed by the property owner(s) and co-signed by the Commissioner of Highways.
- .4 The Completion of Works certificates shall be provided to the Principal within two weeks of being signed.

3. PROPERTY TREATMENT

- .1 The Contractor shall determine sensitive receives eligible to receive Noise Mitigation Treatment Packages in accordance with the RTNG and design and install house treatments in accordance with the RTNG, EPA GARNI, DPTI Noise Mitigation Manual and/or as specified in this part.

Property assessments and scope of works

- .2 Where noise mitigation treatments are to be installed at private properties, the Contractor shall undertake property inspections and consultation with the affected landowners to determine the exact nature of the treatments.
- .3 Property inspections shall include attendance by key personnel including an acoustic engineer and community engagement representative. The Contractor shall engage an Architect experienced in acoustic design and installation for design of noise treatments to heritage listed properties and other properties as required.
- .4 The Contractor shall notify the Principal of the intent to undertake the property assessments at least 48 hours prior.
- .5 The Contractor shall:
 - (a) develop a Scope of Works Document for each property eligible to receive a Facade Treatment Package, including:
 - (b) a plan detailing building orientation, room use and applicable treatment package;
 - (c) scope of noise mitigation treatments to be offered;
 - (d) information regarding fixtures identified for treatments (measurements, photographs, observations regarding practical implications for installation); and
 - (e) photographs of pre-existing conditions and work area;
 - (f) ensure that when designing mitigation treatments, consideration is given to the existing property features to ensure that (where reasonable and practical) proposed treatments conform to the existing style and character;
 - (g) undertake discussions and negotiations with the property owners to finalise the Scope of Works and agree on details such as finishes and make good provisions; and
 - (h) ensure that the final design generating the Scope of Works for each property will meet the requirements of the approved Noise Assessment and Mitigation Design Report and the Building Code of Australia when the treatments are installed.

Property owner agreement

- .6 The Contractor shall obtain formal property owner agreement on the final treatment measures to be installed including barriers, architectural treatments and any reinstatement works as required. The property owner shall be provided with a Deed of Consent and Agreement to sign. An example Deed can be found in the DPTI Noise Mitigation Manual. The Agreement, to be approved by the Principal, shall consist of as a minimum:
 - (a) details of the agreed Scope of Works; and
 - (b) authority to access the property and undertake works.
- .7 The Contractor shall not undertake property works until the Agreement has been signed by the property owner and approval provided by the Principal. Where the property has a tenant an access agreement shall be obtained prior to undertaking works on the property.

Façade Treatments

- .8 All Façade Treatments installed shall comply with the DPTI - Property Noise Mitigation – Façade Treatment Package Specification. Contractor should particularly note Part 1 - Summary and Part 3 - Drawings. The Specification shall supplement the Scope of Works documents and provides further information regarding:
- (a) reference to acoustic performance and specification requirements and suitable proprietary products;
 - (b) typical construction drawing details; and
 - (c) construction notes regarding practical implications for installation.
- .9 The Contractor shall:
- (a) Allow for full time on-site supervision and management to manage work crews and interfacing trades.
 - (b) Supervise unloading, storage, movement and installation of all materials on site.
 - (c) Allow for the preliminary preparation and full reinstatement (where applicable) and clean-up of the residence during and prior to demobilisation.
 - (d) Allow for the removal and disposal of all rubbish and recyclables.
 - (e) Only use products that have been approved by the Principal (or Principal's Authorised Person).
 - (f) Schedule works and arrange access to the property with the owner(s) identified in the Deed of Consent and Agreement or the owner(s) representative (e.g. property management person) as nominated by the owner(s).
 - (g) Ensure access ways within and external to the property are kept free of materials and safe for entry/egress.
 - (h) Ensure the property is secured to 'lock up' standard overnight or when the Contractor are not on site, in cases where a window or door has been temporarily removed – e.g. temporary boarding of windows or doors shall be completed if necessary.
 - (i) Be responsible for all preliminary and associated works, including temporary preparation of work area, cleaning up and returning furniture to original positions.
 - (j) On completion, the Contractor shall undertake an inspection of the works and provide a signed Completion of Works certificate when the works have been accepted as complete and co-signed by the property owner(s).
 - (k) Issue a Certificate of Compliance with the Building Code of Australia for all works undertaken. The builder shall be appropriately qualified to issue the Certificate of Compliance in accordance with the Australian Building Code.
 - (l) Provide a warranty period of two (2) years from the date of co-signing of the Completion of Works certificate by the property owner for all property façade treatments.
- .10 The Completion of Works certificates and Certificates of Compliance shall be provided to the Principal within two weeks of being signed.

4. RECORDS

- .1 The following records shall be provided to the Principal:
- (a) Drawings
 - (b) Noise mitigation drawings.
 - (c) Reports/Forms
 - (d) Façade treatment Scope Reports
 - (e) Signed Deeds of Consent and Agreement
 - (f) Where appropriate, the surveys or reports which address:
 - ii) Additions or revisions to the CSR;
 - iii) Noise investigation, calculations and mitigation measures;
 - iv) Façade Treatment Scope Reports

- v) Signed Deed of Consent and Agreement
- vi) Additional noise and vibration survey;
- vii) any other surveys, reports or studies issued to address environmental issues.
- (g) Other