

NEW BRIDGEWATER BRIDGE PROJECT

CHANGE ORDER FOR NOISE WALLS INCORPORATING ARTWORK

The Change Order for noise walls (incorporating art) is the required administrative process for agreeing the detail and cost of noise mitigation measures required to be delivered by the Contractor in accordance with the Design and Construction (D&C) Deed.

BACKGROUND

The accepted D&C Tender was based on an assumed Major Project Permit requirement of achieving a maximum traffic noise level of 68 dB(A) at noise sensitive receptors and this was an accepted basis of pricing at the time of the award of the Early Activities Deed (EAD) in December 2021.

After the Major Project Permit was issued in May 2022, in accordance with the EAD the Contractor was provided with the Actual Approval Conditions within the Permit and was required to:

- identify whether there is any Material Change between the Actual Approval Conditions and the Expected Approval Conditions; and
- give written notice to the State which describes the precise impact of the Material Change on the Agreed D&C Deed (including the Schedules and Exhibits), the Contractor's tendered Date for Construction Completion and the Contractor's tendered Design and Construct Contract Sum.

However, until further noise modelling was completed, it was not possible to quantify the works associated with the operational noise mitigation requirements of the Permit.

The D&C Deed was awarded in July 2022 and as part of the Deed and Permit requirements, the Contractor produced a Noise Modelling Report.

This Noise Modelling Report identified that as a result of satisfying the Permit Conditions for noise mitigation, two noise walls are required at Bridgewater near the bridge abutment and one at Granton at the roundabout.

It is noted that during the Permit assessment process, Brighton Council made representations that sheer blank walls should be treated to provide visual interest, which may include changes in materials and colours, textures or murals. The Project responded advising that it committed to liaising with Council on the finishes of the blank sheer walls however, preferred avoiding incorporating conditions that requires the Project seek Council approval for the treatment of the sheer wall surfaces. The resulting permit included the requirement that the landscaping plan must detail any proposed new walls, fences or noise mitigation measures, demonstrating that these are appropriately compatible with the heritage values and character of the place.

Following a request from the State's Representative, the Contractor priced the design and construction of the noise walls incorporating artwork.

The formliners provide the option to include surface relief within the concrete panels to achieve the proposed artwork scheme (which will be developed by the State separately).

Change Order Form

Project Name:	New Bridgewater Bridge	
Change Order Date:	3 March 2023	
Change Order #:	NBB-CHGOR-038	
DSG Change Proposal Request #:	NBB-CHG15	
Aconex Ref#:	MCD-CP-000009, MCD-GCOR-003213, DSG-CO-000037, MCD-CP-000016, MCD-CP-000017	
Subject: <i>Tick all required.</i>	<input checked="" type="checkbox"/> Change to Cost <input type="checkbox"/> Change to Deed Clause <input checked="" type="checkbox"/> Change to Design <input type="checkbox"/> Change to Compliance <input type="checkbox"/> Deductible claim	<input type="checkbox"/> Change to Project Program <input type="checkbox"/> Change to Project Plans <input type="checkbox"/> Change to Project Reporting <input type="checkbox"/> Other, please specify: _____
Change Requirements:	<p>Construction of three freestanding noise walls incorporating artwork and to cater the impacts of these noise walls on other design packages to the satisfaction of the EPA and the State's Representative as per Option 2 (5x Reckli formliners):</p> <ol style="list-style-type: none"> Noise wall MN02 (North) located alongside the main carriageway – 60m long and 3.5 high Noise wall MN21 (North) located alongside the Midland Highway Southbound Gunn Street Off Ramp – 108m long and 4m high Noise wall MN81 (South) located on the eastern edge of the Black Snake Road/Lyell Hwy/Brooker Hwy roundabout – 144m long and 3m high) <p>Each consisting of the following:</p> <ul style="list-style-type: none"> Earthworks to widen verge; Piles and posts at 3m spacings Maintenance strip (planned footpath along Gunn St used as the maintenance strip for MN21) Concrete panels (3m wide by the height of each noise wall); Adjustments to guard fence, drainage, lighting and signage as required Urban Design treatments, including artwork, specifically: <ul style="list-style-type: none"> A 60mm 'relief' on one side to allow for the provision of artwork within the concrete panels; Cast in pattern are provided with custom form liners similar to reckli polyurethane formliners to create a negative imprint of the supplied artwork with formliners to be reused; Painting of panels on the patterned side; Base Landscaping (as required by the PSTR). Any additional landscaping shall be included in the Contractor's submission for Additional Landscape Works in accordance with clause 6.9 to 6.11 of the D&C Deed. <p>It is noted that the design costs and respective overheads have already been approved under NBB-CHGOR-035.</p> <p>This Change Order is issued consistent with the requirements of Schedule 8 – Environmental Documents and Approvals, clause 1.4 Shared obligations in respect of Environmental Documents and Approvals, subclause (xi) in relation to Permit Condition N5 (Pre-construction operational traffic noise impact assessment).</p>	

	<p>Issue of this Change Order includes approval of the following PSTR Departures identified by the Contractor in its Change Proposal, subject to the conditions noted:</p> <ol style="list-style-type: none"> 1. For the proposed noise wall components only, hot dip galvanized protective coatings may be considered in addition to a corrosion allowance when assessing the design life of steel posts in contact with the ground such as in earth retaining structures. This departure from the PSTR requirements is acceptable to the State provided that the interface between the steel post and the concrete pile is designed and constructed such that water is free-draining away from the steel post to minimise the rate of corrosion. 2. The State notes the Contractor's interpretation of Appendix 13 of the PSTR is that the use of oxide treatments is not preferred. As such the State confirms that, for the proposed noise wall only, a departure from the PSTR to allow the use of oxide treatments is acceptable in principle, subject to agreement on the Urban Design including proposed surface profile, concrete colour, surface finish and surface protection system. 3. The State confirms that it does not require anti-graffiti treatment be applied to the noise walls at this time, pending finalisation of the proposed artwork.
Change in Cost (ex-GST): <i>If applicable, provide the breakdown</i>	\$4,425,295.47 (excl. GST), valued in accordance with the Deed of Variation to D&C Deed dated 16 December 2022, Schedule 1 - clause 5(b).
Effect of the proposed Change on Program:	No impact to the program is expected because of this Change
Change Priority:	<input type="checkbox"/> High <input checked="" type="checkbox"/> Medium <input type="checkbox"/> Low

Deputy Project Director to Complete

Name:	Kevin Bourne
Signature:	<i>K. Bourne</i>
Recommendation:	<input checked="" type="checkbox"/> Endorsed <input type="checkbox"/> Further analysis required <input type="checkbox"/> Not Endorsed
Comments:	
Date:	2.03.2023

State's Representative to Complete

Name:	Ben Moloney
Signature:	<i>B. Moloney</i>
Decision:	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Not Approved
Comments:	
Date:	3 March 2023