

**Certificate Form**

**Certificate Ref. No 285380-03-129-0019 Rev 0**

**INDEPENDENT STRUCTURAL DESIGN CHECK CERTIFICATE**

*Defined terms and expressions used in this Certificate have the same meanings given in the agreement between HMQ and Project Co dated December 15, 2010 ("the Project Agreement") relating to the Project.*

*Form of certificate to be used by the Checking Team for certifying the design of structures incorporated in the Parkway, in accordance with Part 2 of the Design and Construction Specifications to the Project Agreement.*

- 1) We certify that we have the requisite professional qualifications, skill and experience to perform an independent check of the Design Data referred to herein in accordance with the requirements of the Project Agreement.
- 2) We certify that we have performed an independent check (as required by the Project Agreement for significant and complex Structures) of the Design Data for the **Matchette Road Overpass (B02)** listed in the Schedule hereto and utilizing the standards of care, skill and diligence that, in accordance with the standards of our profession, are required of experienced professionals undertaking such an independent check, and that in our professional opinion:
  - i) the said Design Data meets performance expectations outlined in the Project Agreement, [including Technical Appraisal Form] No. **285380-03-127-0001** dated **10 April 2013**, as amended by the following:
    - [List, if any, the changes made and any addenda to the foregoing Technical Appraisal Form]; and
  - ii) the design, methodologies and assumptions are consistent with Good Industry Practice.



## SCHEDULE

### DOCUMENTS

Document No.	Description	Rev	Date
285380-03-127-0001	Technical Appraisal Form	0	10/04/13
285380-04-119-0118	Geotechnical Investigation and Design Report	0	21/03/13
285380-03-109-0001	Structural Design Criteria – Seismic Design Guidelines	0	19/07/11
285380-03-109-0002	Structural Design Criteria – Structures Design Criteria	2	16/04/12
285380-03-109-0003	Structural Design Criteria – Structural Design Check Process	0	19/07/11

### DRAWINGS

Document No.	Description	Rev	Date
285380-03-060-SEG3-0200	Cover Sheet, Site Plan, And Key Plan	0	10/04/13
285380-03-060-SEG3-0201	General Arrangement	0	10/04/13
285380-04-090-SEG3-0202	Borehole Locations & Soil Strata	0	20/03/13
285380-04-091-SEG3-0203	Soil Stratigraphy	0	20/03/13
285380-03-061-SEG3-0204	Foundation Layout	0	10/04/13
285380-03-061-SEG3-0205	West Abutment Layout	0	10/04/13
285380-03-061-SEG3-0206	East Abutment Layout	0	10/04/13
285380-03-061-SEG3-0207	Abutment Reinforcement	0	10/04/13
285380-03-061-SEG3-0208	West Wingwall Details	0	10/04/13
285380-03-061-SEG3-0209	East Wingwall Details	0	10/04/13
285380-03-061-SEG3-0210	RSS Wall Plan And Section	0	10/04/13
285380-03-061-SEG3-0211	RSS Wall Elevation	0	10/04/13
285380-03-063-SEG3-0212	Prestressed Girders I	0	10/04/13
285380-03-063-SEG3-0213	Prestressed Girders II	0	10/04/13
285380-03-063-SEG3-0214	Prestressed Girders III	0	10/04/13
285380-03-064-SEG3-0215	Prestressed Deck Panel	0	10/04/13
285380-03-064-SEG3-0216	Deck Layout & Screed Elevations	0	10/04/13
285380-03-064-SEG3-0217	Deck Reinforcement	0	10/04/13

285380-03-064-SEG3-0218	Abutment Diaphragm Reinforcement	0	10/04/13
285380-03-065-SEG3-0219	Barrier Wall W/O Railing Type I	0	10/04/13
285380-03-065-SEG3-0220	Barrier Wall W/O Railing Type II	0	10/04/13
285380-03-065-SEG3-0221	Barrier Wall W/O Railing Type III	0	10/04/13
285380-03-065-SEG3-0222	Barrier Wall PL3 Grassland Treatment	0	10/04/13
285380-03-065-SEG3-0223	Noise Barrier Wall	0	10/04/13
285380-03-065-SEG3-0224	6000 mm Approach Slabs	0	10/04/13
285380-03-066-SEG3-0225	Standard Details	0	10/04/13
285380-07-067-SEG3-0226	Embedded Electrical Work	0	10/04/13
285380-04-094-SEG3-0227	Abutment Excavation And Backfill Details	0	10/04/13
285380-04-094-SEG3-0228	Construction Notes – Backfill At Structures	0	20/03/13
285380-04-094-SEG3-0229	Construction Notes - Lightweight Fill Material	0	20/03/13
285380-04-094-SEG3-0230	Construction Notes - Expanded Polystyrene	0	20/03/13

Signed: 

Checking Team (Principal)

Name: Daniel Tassin

Date: 11 April 2013

Professional Registration Number: 100174152



Signed: 

Project Co Representative

Name: Roya Naorbakhsh

Date: 7 May 2013