

Certificate Form

Certificate Ref. No 285380-03-129-0005 _r1

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 **Eastbound Underpass Near Huron Church Line (Bridge B09) Substructure** 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. 285380-03-127-0008 dated **16 March 2012**, 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.



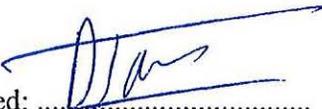
SCHEDULE

DOCUMENTS

Document No.	Description	Rev	Date
285380-03-127-0008	Technical Appraisal Form	0	16/03/12
285380-04-119-0025	Geotechnical Investigation and Design Report –	0	16/03/12
285380-03-109-0001	Structural Design Criteria – Seismic Design Guidelines	0	19/07/11
285380-03-109-0002	Structural Design Criteria – Structures Design Criteria	1	10/08/11
285380-03-109-0003	Structural Design Criteria – Structural Design Check Process	0	19/07/11

DRAWINGS

Drawing No.	Description	Rev	Date
S0900	Cover Page	0	16/03/12
S0901	General Arrangement	0	16/03/12
S0902	Borehole Location & Soil Strata	0	16/03/12
S0903	Soil Stratigraphy	0	16/03/12
S0904	Foundation Layout & Reinforcement I	0	16/03/12
S0905	Foundation Layout & Reinforcement II	0	16/03/12
S0906	West Abutment Details	0	16/03/12
S0907	East Abutment Details	0	16/03/12
S0908	West Wingwall Details	0	16/03/12
S0909	Pier Reinforcement	0	16/03/12
S0910	Bearings Layout and Details	0	16/03/12
S0929	Details of Concrete Slope Paving	0	16/03/12
S0930	Standard Details	0	16/03/12
S0931	Embedded Electrical Work	0	16/03/12
S0932	Abutment Excavation and Backfill Details	0	16/03/12
S0933	Construction Notes – Backfill at Structures	0	16/03/12
S0936	East Wingwall Details	0	16/03/12
S0937	Construction Notes – Lightweight Fill Material	0	16/03/12

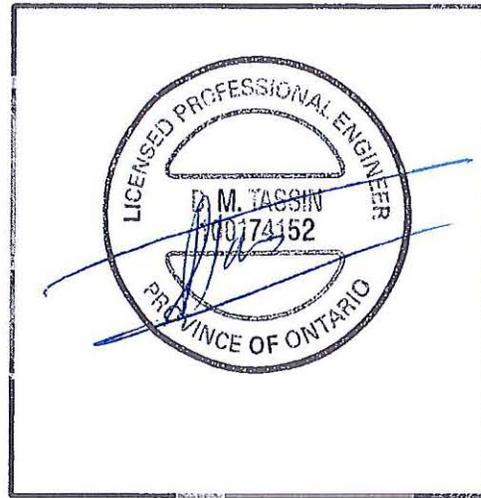
Signed: 

Checking Team (Principal)

Name: Daniel Tassin

Date: 20 March 2012

Professional Registration Number: 100174152



Signed: 

Project Co Representative

Name: Lannacio Casa

Date: April 5, 2012