

Licence No.: 2507

Licence Issued: May 17, 2001

**IN ACCORDANCE WITH THE MANITOBA ENVIRONMENT ACT (C.C.S.M. c. E125)
THIS LICENCE IS ISSUED PURSUANT TO SECTION 11(1) TO:**

THE CITY OF WINNIPEG; "the Licencee"

for the construction and operation of the Development being the Provencher Paired Bridges Project in The City of Winnipeg. The Development involves the demolition and replacement of the existing Provencher Bridge with a new vehicular bridge across the Red River linking Provencher Boulevard in St. Boniface with Pioneer and Water Avenues in Downtown Winnipeg, and the construction of a new pedestrian bridge across the Red River linking Provencher Boulevard in St. Boniface to The Forks, in accordance with the Proposal and the Environmental Impact Statement filed under The Environment Act, dated September 12, 2000 and January 29, 2001, respectively, and subject to the following specifications, limits, terms and conditions:

DEFINITIONS

In this Licence:

"dBA" means a denotation used to indicate a unit of sound measurement;

"dB (decibel)" means a dimensionless measure of sound level or sound pressure level, where,

$$\text{sound level} = 20 \log_{10} \text{ of } \{ \text{sound pressure (actual)} \} / \{ \text{sound pressure (reference)} \};$$

"L_{dn}" means the day-night average sound level; i.e. the 24 hour A-weighted sound level, with a 10 decibel penalty added to the night-time (11:00 p.m. to 7:00 a.m.) levels. The L_{dn} shall be based upon the design year traffic volume, and shall be in accordance with the outdoor sound level limits for residential areas adjacent to regional transportation facilities set out in The City of Winnipeg's "MOTOR VEHICLE NOISE POLICIES AND GUIDELINES". (*The point of reception for determining noise impacts as defined in The City of Winnipeg "MOTOR VEHICLE NOISE POLICIES AND GUIDELINES", shall be at the limit of the outdoor recreational area closest to the roadway and at a height of 1.2 meters above ground.*);

"L_{eq} (1) (energy equivalent level)" means the A-weighted sound level (as described in decibels {dBA}) of a constant or steady sound, for a one hour period, which has an amount of acoustic energy equivalent to that contained in the sound being measured; and

"outdoor recreational area" means an area as defined in The City of Winnipeg "MOTOR VEHICLE NOISE POLICIES AND GUIDELINES" as a ground level outdoor recreational living area adjacent to a residential unit accommodating a variety of individual outdoor activities.

GENERAL TERMS AND CONDITIONS

This Section of the Licence contains requirements intended to provide guidance to the Licencee in implementing practices to ensure that the environment is maintained in such a manner as to sustain a high quality of life, including social and economic development, recreation and leisure for present and future Manitobans.

1. The Licencee shall, during construction, ensure that any fuel storage areas established for the construction of the Development are located a minimum distance of 100 meters away from waterbodies, including wetlands, and ensure the storage areas comply with the requirements of *Manitoba Regulation 97/88R - Storage and Handling of Gasoline and Associated Products*.
2. The Licencee shall ensure that all used petroleum products and other hazardous wastes generated by the

machinery used in the construction and operation of the Development, are collected and disposed of in accordance with Manitoba Conservation and legislative requirements.

3. The Licencee shall ensure that non-reusable demolition and construction debris from the Development is disposed of at a waste disposal ground operating under the authority of a permit pursuant to the ***Waste Disposal Ground Regulation, Manitoba Regulation 150/91***.
4. The Licencee shall ensure during construction and operation of the Development, that spills of petroleum or other contaminants are reported to an Environment Officer in accordance with the requirements of ***Manitoba Regulation 439/87*** respecting ***Environmental Accident Reporting***.

SPECIFICATIONS, LIMITS, TERMS AND CONDITIONS

Respecting Pre-Construction

5. The Licencee shall, prior to the final design stage of the foundation aspects for the Provencher Paired Bridges Project, consult and reach an agreement with the Water Resources Branch on the mitigation requirements to protect the groundwater system during construction of the bridge foundations.
6. The Licencee shall submit to the Director for approval, prior to commencement of construction activities for the Development, a ***Provencher Paired Bridges Project Environmental Protection Plan***. The Plan shall describe the approach to be used by the Licencee to monitor environmental conditions both during and after construction of the development to ensure that mitigative measures are applied by the contractors and subcontractor(s) systematically and in a manner consistent with the commitments made in the ***Provencher Paired Bridges Project Environmental Impact Statement, January 26, 2001***.
7. The Licencee shall, prior to construction, provide a copy of this Licence and the ***Provencher Paired Bridges Project Environmental Plan*** to any contractor involved in the Development.
8. The Licencee shall, prior to beginning any construction of the Development, submit an Engineering Report to the Director. The Report shall include the results of a completed field monitoring program of background noise levels (L_{dn}) for outdoor recreational areas in the residential areas adjacent to the Development.

Respecting Construction

9. The Licencee shall construct the Development in accordance with the preliminary design as described within the ***Environment Act Proposal, dated September 12, 2000*** and the ***Environmental Impact Statement for the Provencher Paired Bridges Project, dated January 29, 2001***, except as otherwise required by this Licence.
10. The Licencee shall, on Sundays and statutory holidays and between the hours of 11:00 p.m. to 7:00 a.m. local time from Monday to Saturday during the construction of the Development, cease any construction activity which results in a L_{eq} (1) (energy equivalent level) exceeding by 5dBA the background levels recorded in accordance with Clause 8 of this Licence.
11. The Licencee shall, during construction of the Development, consult with the Historic Resources Branch, Manitoba Department of Culture, Heritage and Tourism to arrange for the recovery of any archaeological material.
12. The Licencee shall, during the full term of construction of the Development, implement the specific dust control measures as recommended in the Provencher Paired Bridges Project Environmental Protection Plan, and as approved by the Director.
13. The Licencee shall, during construction of the Development, undertake measures to ensure that runoff containing suspended soil particles is minimized from entering the Red River to the extent possible.

14. The Licencee shall, during construction of the Development, undertake measures to ensure that demolition and construction debris is prevented from entering the Red River.
15. The Licencee shall, during construction, adhere to the Manitoba Department of Conservation Guidelines titled ***Recommended Fish Protection Procedures for Stream Crossings in Manitoba.***
16. The Licencee shall, from April 1 to June 15 of each year during construction, cease all construction activities that may impact upon the Red River stream channel and which may affect fish mobility and fish habitat.
17. The Licencee shall, prior to April 1 of each year during construction, ensure that all areas of the Red River banks that are disturbed by the construction activities are rip-rapped with rock to limit erosion and sedimentation into the Red River.

Respecting Post Construction

18. The Licencee shall, at the completion of construction, ensure that the banks of the Red River are stabilized from channel level to high water elevation at bank-full conditions.
19. The Licencee shall, at the completion of construction, landscape and vegetate all areas disturbed during the construction with native and/or introduced plant species in order to restore and enhance the site and to protect against soil erosion. Purple Loosestrife infestation of riverbank disturbed by construction shall be monitored and controlled until native and introduced species are well established.

REVIEW AND REVOCATION

- A. If, in the opinion of the Director, the Licencee has exceeded or is exceeding or has or is failing to meet the specifications, limits, terms, or conditions set out in this Licence, the Director may, temporarily or permanently, revoke this Licence.
- B. If the construction of the Development has not commenced within three years of the date of this Licence, the Licence is revoked.
- C. If, in the opinion of the Director, new evidence warrants a change in the specifications, limits, terms or conditions of this Licence, the Director may require the filing of a new proposal pursuant to Section 11 of The Environment Act.

"original signed by"

Larry Strachan, P. Eng.
Director
Environment Act

Client File No.: 4554.00