

11001 Concrete Noise Barriers**Index**

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11001-1 Scope

This Section describes concrete noise barriers which have been approved for use in the City of Saskatoon. The concrete noise barriers shall be suitable for sound attenuation.

11001-2 General

Supply, fabricate and install concrete noise barriers in accordance with this Specification, the General Requirements, and either:

1. CAN/CSA-S6 Canadian Highway Bridge Design Code; or
2. AASHTO Guide Specification for the Structural Design of Sound Barriers, 1989 edition incorporating 1992 & 2002 amendments; or
3. AASHTO LRFD Bridge Design Specification 6th Edition (2012).

11001-3 Materials**3.1 Concrete**

A minimum compressive strength of 25 MPa shall be used in fabricating precast concrete noise barriers.

Cement used on the work shall conform to current CSA specifications.

An approved air entraining agent shall be used in all concrete and shall comply with the Specifications for Air Entraining Admixture for Concrete (A.S.T.M. Designation: C-260) and used in strict accordance with the manufacturer's recommendations.

The colouring used in the posts and panels must be integral to the concrete. It is not acceptable to stain the posts and panels after the concrete has cured.

Panels are to be sandstone colored and posts are to be charcoal colored. If the posts are poured integrally with the panels, both may be sandstone.

3.2 Reinforcing Steel

Reinforcing steel shall be fabricated from deformed bars and/or welded wire mesh conforming to the requirements of ASTM Designation A615, Grade 400 or CSA G30.12.

3.3 Shop Drawings

Shop drawings shall be provided by the supplier, detailing all relevant aspects of posts and panels, installation and connection details, and bear the seal of a professional engineer registered in the Province of Saskatchewan, with permission to construct.

End of Specification 11001