

SECTION 6
SOUND BARRIER DESIGN

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SECTION 6

SOUND BARRIER DESIGN

6-1 LOCATION REQUIREMENTS

Sound barriers may be required along the rear and side property lines of residential developments adjacent to freeways, major highways and other ground level noise elements in order to achieve the noise objectives of the City of Elk Grove Noise Element, Noise Ordinance, or as required by the project conditions of approval.

6-2 DESIGN

The sound barrier shall be designed to obtain a 60 LDN at the affected property line or as required by the Director. There are existing soundwall systems that have been certified by the City. Information on the systems is available through the Director.

The Director may approve new sound barriers upon request. The request shall include plan details and calculations prepared and signed by an appropriate Consulting Engineer.

Sound barriers shall be designed for a minimum longevity of 30 years.

Sound barriers normally will not be allowed within public rights of way when installed as a condition of the development or as an option of the builder. The Director may allow certain sound barriers to be within the public rights-of-way with an encroachment permit. Normally, if 2 feet or less of public street right of way is available, no permit will be granted.

Sound barriers constructed along freeways, or at the back of sidewalk along the outside of curved major streets, shall incorporate a barrier-type design element to minimize the potential for vehicles penetrating the wall. Other locations that represent a higher potential for run-off-road accidents shall be required to incorporate a Caltrans Type 50 (or equivalent) barrier-type design element.

Open cells in hollow-type sound barriers shall be grouted on post-tensioned wall systems as required by the Director.

6-3 PLAN REQUIREMENTS

All construction details for sound barriers, including the locations and limits, shall be shown on the site improvement plans.