

## REFINING VERTICAL ALIGNMENT

Vertical alignment is to be reviewed for possible revisions resulting from data received under Section 2B-1- GROUND SURVEY such as: soil data (compaction factors, etc.) indicating the need to raise or lower grades for earthwork balances, major utility facilities, hydraulic requirements and considerations such as raising grades to obtain adequate cover for drainage structures and vertical clearances for various grade separations.

As mentioned above, Chapter 120 of the 2009 Acts of Assembly provides that, for any highway construction or improvement project that includes, or may include the requirements for the mitigation of traffic noise impacts, VDOT should consider, but is not required to implement, noise reducing design, such as placing the roadway in a cut section.

Vertical alignment must remain within acceptable limits as prescribed in the Geometric Design Standards (See [Appendix A, Section A-1](#) and [Chapter 2A, Section 2A-6\\*](#)) unless an authorized [exception](#) is approved by the State Location and Design Engineer and, if applicable, the Federal Highway Administration. Also see [IIM-LD-227](#) for Design Exceptions.

## PERMIT DETERMINATION

The designer shall submit Form [LD-252](#) to the Environmental Engineer with appropriate data. The Environmental Division will review the project and determine what type of water related permits may be required. (See [Appendix C, Section C-4-WATER RELATED PERMITS](#)).

## COORDINATION WITH OTHER DIVISIONS AND AGENCIES

After refinements as outlined in this section are made, the electronic files are to be placed in Falcon to allow other divisions and agencies that have been involved up to this point access to the revised plans. For example, furnishing the electronic files allows the Environmental Division to resolve as many problems as possible at this stage (archaeological sites, etc.) and the Local Assistance Division, on applicable projects, to coordinate with city or town representatives.

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\* Rev. 1/17