

PROJECT PROFILE

RECOMMENDATIONS FOR REVISIONS TO AASHTO STANDARD SPECIFICATIONS

D'Appolonia working under a National Cooperative Highway Research (NCHR) grant was responsible for a study to revise the American Association of State Highway and Transportation Officials (AASHTO) standard specifications for the design of foundations, retaining walls and bridge sub-structures.

The topics addressed by the study included spread footing, driven pile and drilled shaft foundations (Section 4); gravity, semi-gravity, cantilevered and anchored retaining walls and mechanically-stabilized earth (MSE) and modular wall systems (Section 5); and piers and abutments (Section 7).

Project tasks included the following:

- Review of available technical literature and data,
- Assessment of the current practice for design of foundation and retaining wall systems utilized in highway bridge construction and preparation of a comprehensive recom-

mended specification outline,

- Preparation of an Interim Report with proposed draft specifications for distribution to participants in the study for review and comment,

- Finalizing the draft specifications incorporating comments received from reviewers and preparation of a companion commentary,

- Identification of other areas of the AASHTO specifications that would be affected by the revisions to the specifications, and

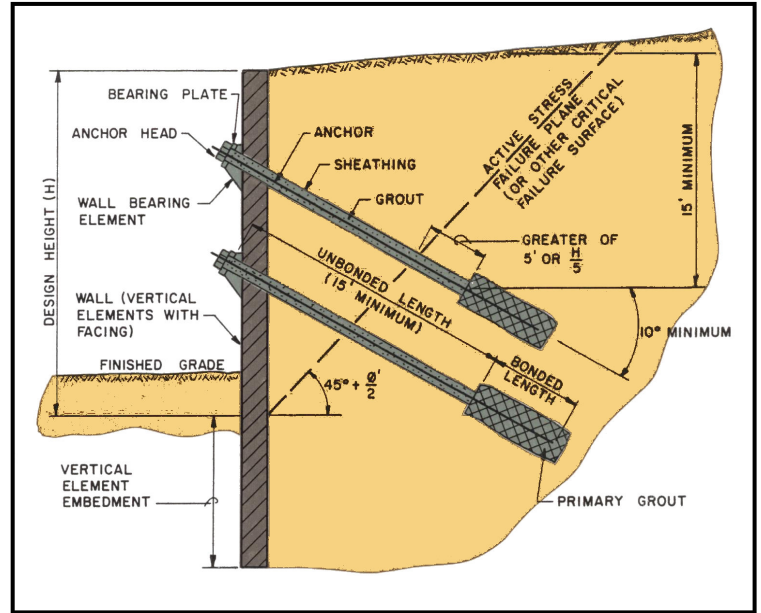


Illustration of anchored retaining wall from Section 5 of the revised AASHTO specifications.

- Preparation of a Final Report presenting the new AASHTO specifications for highway bridges.

The recommended revisions were published as the 1991 Interims to the AASHTO Standard Specifications for Highway Bridges.

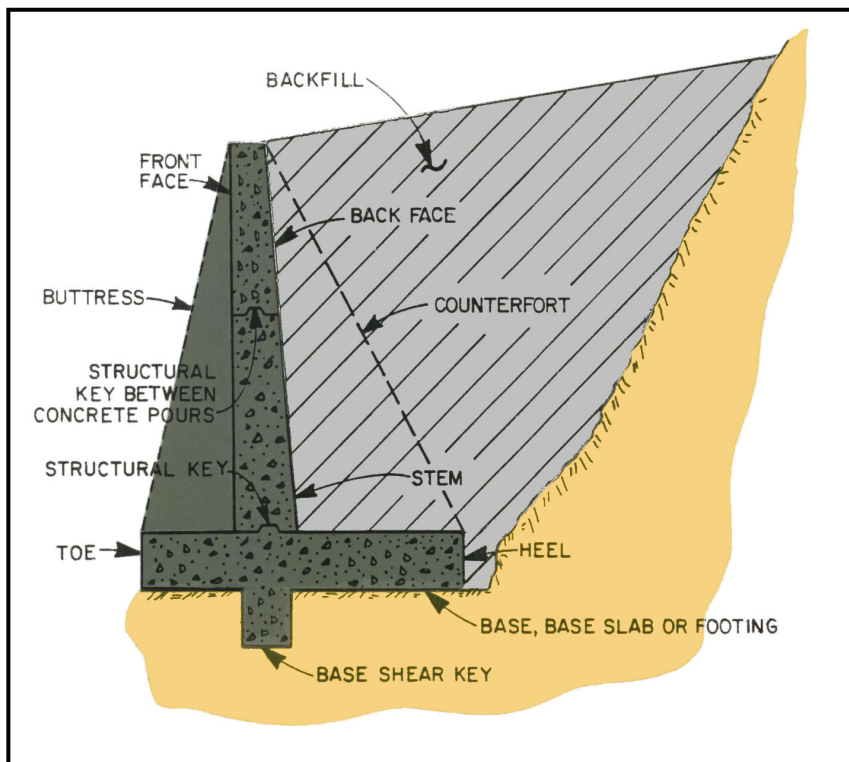
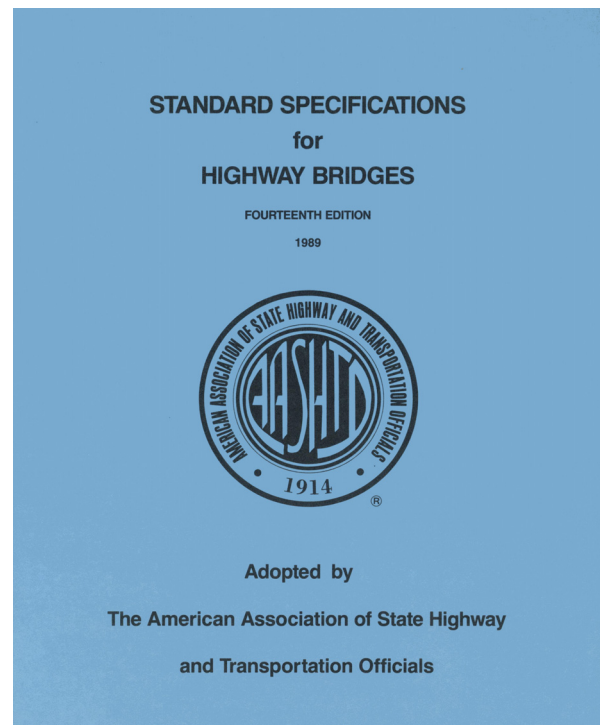


Illustration of concrete gravity retaining wall from Section 5 of the revised AASHTO specifications.



Cover of the AASHTO Standard Specifications for Highway Bridges.