

# National Engineering Manual

## Part 510 - Planning

### **KS510.1 Scope**

#### D. Site investigations conducted . . .

(1) The area and field staff will provide surveys as needed for the investigation and design and the development of land rights work maps if needed. The area engineer will be responsible for the quality of the surveys.

(2) Support data for draft plan design shall be reviewed for technical adequacy by the state conservation engineer's (SCE's) staff and approved by the SCE. All support data shall be filed in a support data book(s) and will include a geology and soil mechanics report, a design report, and a hydrology report and will indicate assumptions, as appropriate, relative to designs.

#### E. The project will be reviewed with pertinent technical staff from the state office and area office to get an overview and to determine general layout.

(1) For structure sites, the SCE or staff will select the centerline in the field prior to the draft plan stage for investigation and design.

(2) For channel work, the state resource conservationist and the SCE will select a team to inspect the entire channel and prepare an inventory that notes alignment, major tributaries, pipelines, tile lines, utility lines, erosive areas, need for structures, landscape view, environmental concerns, etc., prior to the draft plan stage.

(3) All criteria, including dam classification, shall be approved by the SCE.

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#### **KS510.3 Engineering Data to Support Plans**

- A. The watershed should be investigated jointly by the area engineer and the supervisory district conservationist or district conservationist to determine water management recommendations. Sufficient investigations and surveys should be made to determine the feasibility of the job. Alternative solutions should be investigated. Land treatment requirements and solutions should be investigated.
- C. The planning report may be approved at the field level if it is within the area engineer's job approval authority as delegated in [Form KS-CPA-1, Kansas Practice Approval Certification](#).