

Sec. 4.14 **Bridge Site Plans - Widening**

The bridge site plan for widening projects shall be secured and plotted in accordance with **Sec. 4.14** and **Chapter 7** of this manual. In the case of widening at streams, no upstream or downstream cross-sections are to be secured unless specifically requested at a given site, but the Bridge Data Sheet must be completed.

When an existing bridge is close enough to the location centerline that the proposed structure might overlay the existing bridge, accurate stations and offsets shall be secured to all accessible outlines of the existing structure.

Where an existing bridge is to be widened and as-built plans are on file, measurements shall be secured and shown on a copy of as-built bridge plans as follows:

1. Stations and skew angles at beginning and end of bridge and at all piers.
2. Bridge seat elevations at exterior beams on both sides of the bridge.
3. Dimension from centerline to outside edge of deck.
4. Elevations of basic slab at gutter line at beginning and end of bridge and at centerline of piers.

This data will be incorporated on the file/disk with all other information.

On certain widening projects, the clearance is often critical, especially if the structure to be widened crosses a surfaced facility. In view of this, DTMs are to be secured along the centerline of the roadway beneath the bridge at ten feet (**10 ft**) intervals. DTMs are to be secured under the bridge at a distance of ten feet (**10 ft**) from the centerline of the exterior beam to a distance ten feet (**10 ft**) outside the proposed edge of the widened pavement. These DTMs shall extend to the top of the shoulder or the bottom of the ditch only, except at the regular station or fifty feet (**50 ft**) intervals, which are to be collected as usual. Elevations are to be secured for the bottom of beams at the supports for the exterior beams and any adjacent beams of greater depth.

For Bridge Site Plans - Widening, secured by Photogrammetric Surveys, see **Sec. 5.07** of this manual.

Sec. 4.15 **Minimum Plan Projects**

The fundamental objective of a "Minimum Plan" project is to provide a satisfactory basis for competitive bids without the development of fully detailed plans and cross-sections. In plain language, such projects will employ varying degrees of the "eyeball" concept of construction with special provisions in the bid proposal covering such items. The full extent and amount of survey information to accomplish will need to be determined on a per project basis. The following are the minimum guidelines:

1. Establish survey alignment and obtain essentially the normal topographic information such as property lines and property ownership, fences,