

Bridge Site Survey Requirements

1. Site Plan

To extend 100 m upstream and downstream of the existing culvert ends and along the road for 200 m each way. Show the following:

- Centerline of existing road and shoulders
- Outline of existing culvert, tie in station at centerline and inverts with invert elevations
- Show outline/ edge of present water level and top of channel banks
- Existing right of way, fence lines, power lines and poles, and any other utilities
- Show road intersections or approaches within 100m of site

2. Road Profile

Road profiles will be required as follows:

- Taken along road centerline and 20m left and right sods, extending 300m in each direction from the existing culvert.
- The sod lines shall show all breaks in the ground at the stream crossing (shots at 1 to 2m intervals where the sod lines cross the stream channel)

3. Road Cross-sections

Take a perpendicular cross-section of the road over the centerline of the existing culvert and tie in the existing inverts with elevations and offsets from centerline.

4. Streambed Profile

Take streambed profile along deepest portion of channel at 20m intervals. Profiles should extend 300m upstream and downstream of the roadway. Shoot the culvert inverts showing streambed station and elevation.

5. Stream Cross-sections

Take two downstream and two upstream channel cross-sections perpendicular to the channel approx. 20m and 40m from the existing culvert downstream invert. Shots to be at 1m intervals and to extend **at least** 20 m beyond the top of bank.

Site survey notes and plans must show the following: Name of instrument man; Bridge File No.; legal land description; bench mark description (spike, iron pin etc.) elevation and location, sta. and offset (geodetic for secondary highways and elev. 100.00 for local roads). Also sufficient field notes and description should be provided with the electronic data so drafting can easily decipher the information for plotting.