



Information for Bridge Crossing Section 26a Permit Applications

In addition to the general information required for 26a permit applications, bridge crossings require some additional specific information.

A Section 26a permit application consists of a completed, signed and dated application form, plans with sufficient information to complete a review, map location, and a check or money order payable to:

*Tennessee Valley
Authority
for the permit application
processing fee.*

What is needed for bridge crossings?

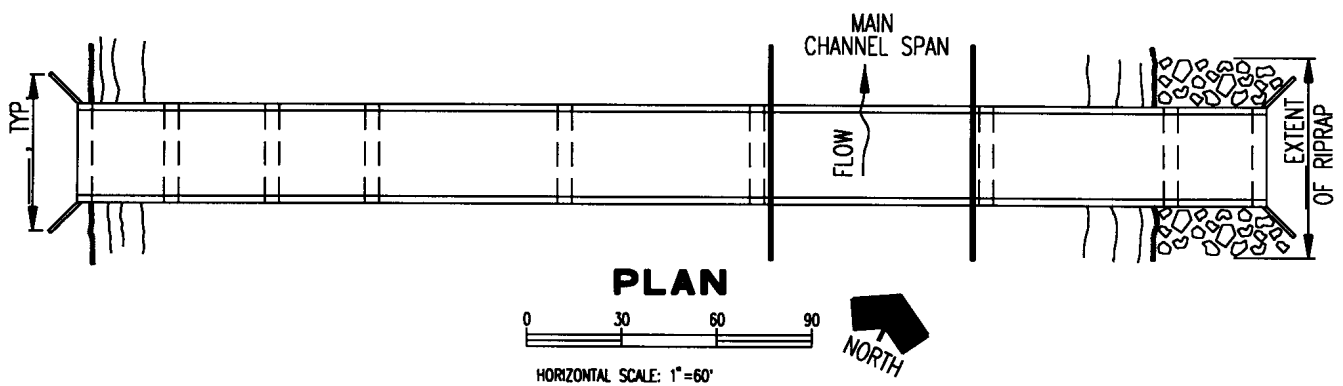
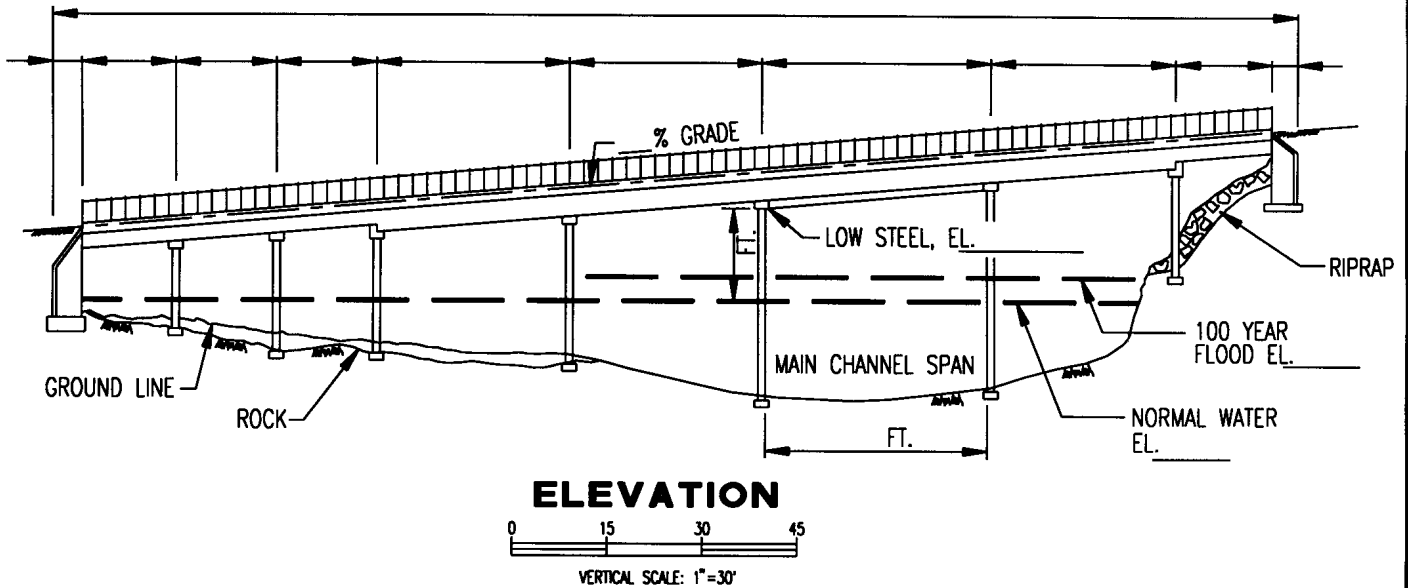
- Show the relationship of bridge to the river or lake and the location of piers/pipeline supports in relation to navigation channel and water's edge.
- Provide the elevation above mean sea level of low steel of bridge or bottom of pipes, wires, or other obstructions, whichever is lower.
- Provide similar information of any existing structure proposed to be replaced or supplemented.
- Show alignment of new bridge piers with existing bridge piers if the bridge will be located next to an existing bridge.
- Provide the minimum horizontal clearances between channel piers at normal low water and at bottom of navigation channel, 11 feet below extreme low water.
- Provide the 100-year flood elevation at the bridge location.
- Specify changes in water elevation and channel velocity due to the bridge.
- Provide a hydraulic analysis which shows the effect on 100- and 500-year flood elevations, and floodway elevations (if applicable).
- Plans should provide details of any proposed fill and identify the amount of power storage and flood storage lost due to the fill. (Elevation ranges are different for power and flood storage calculations and vary from lake to lake -- call your closest TVA office for these elevations at your project site); and
- Plans should identify erosion and sedimentation and runoff control measures, including both design and operational measures, as appropriate.
- In general, plans should be sufficient to describe the extent of site disturbance from construction, maintenance and use of the structure(s).

Navigation Conditions:

Bridges over the Tennessee River (TR) should meet the following conditions:

- The bridge does not increase velocity in the navigation channel during the 100-year flood by more than 20 percent.
- The bridge does not increase surface velocity in the navigation channel during the 100-year flood to more than 8.0 feet per second.
- In locations where average channel velocity is more than 7 feet per second naturally, a horizontal clearance of more than 350 feet in the channel span is provided; and
- Low steel of the navigation channel span is at or above the TR bridge profile (57 feet above normal maximum pool or 47 feet above the old 40-year flood level, whichever provides the higher elevation).
- For additional clearance information, contact TVA at 1-423-632-7157.

Applications should be sent to :



THE NORMAL SUMMER WATER LEVEL IS: _____

NOTE:
INCLUDE ALL DIMENSIONS AND ELEVATIONS
WHERE INDICATED.

TVA	EXAMPLE OF BRIDGE CROSSING	
	PROJECT LOCATION INFORMATION:	
STREAM NAME _____	RESERVOIR NAME _____	
MILE MARKER _____	MAP NO. _____	
(APPLICANT'S NAME)		