

- 3. General Description of Local Conditions.** The following data may be required for feasibility and specifications designs:
- A. Information relating to access for possible site visit by the design team, access for foundation exploration and construction, and access limitations due to environmental restrictions, etc.
  - B. Access to the site for operation and maintenance (O&M) forces.
  - C. Permits or permit requirements and any past permit violations or exceedences.
  - D. Name and description of similar construction in the area or region.
  - E. The approximate distance from the nearest railroad shipping terminal to the structure site; load restrictions and physical inadequacies of existing roads and structures and an estimate of remedial improvements to accommodate construction hauling; estimate of access road length and major structures required for new construction; and possible alternative means for delivering construction materials and equipment to the structure site.
  - F. Availability or accessibility of public facilities or utilities such as water supply, sewage disposal, telephone utility, fire protection services, and electric power for construction (give location, power supplier, voltage, number of phases, and capacity of existing transmission lines; power rate schedules; probability of interruption of supply; and requirements for additional transmission line, if needed).
    - (1) Names, telephone numbers, email addresses, and Web sites of local utilities and contacts within those organizations.
  - G. Climatic conditions that will affect design, construction, and O&M such as amount, rate, and distribution of rain, snow, and hail; ice conditions; heating and air-conditioning design temperatures; summer and winter temperatures with extremes; maximum wind velocities and their directions; probability of excessive dust or sand. For concrete storage dams, daily readings of maximum, minimum, and mean temperatures of air and river water. Until a weather station is established, temperatures should be obtained whenever possible. Date, time of day, and corresponding air and water temperatures should be recorded.
  - H. Local frost depths.
  - I. Ground water presence and depths.
  - J. Vegetation to be cleared or preserved including kinds, sizes, and density of growth.
  - K. Road detour requirements.

L. Bridges and roads.

- (1) A brief description of the surrounding area, the size of the nearest population centers, the condition of bridges and other structures and roads. This description shall include the following if available:
  - (a) Location (structure name; structure number; State, county, or route number; distance to nearest city or town, etc).
  - (b) For bridges crossing rivers or streams, describe waterway condition that may affect design, construction, and O&M procedures.
  - (c) Detour requirements and how construction may be staged.