

1.4 Construction Considerations

Construction-related hydraulic considerations are a necessary part of the planning and design phases. Factors which will affect construction timing and methods need to be kept in mind as project development proceeds. Those responsible for contract administration and actual construction may need to coordinate their scheduling and construction procedures with the designer in order to achieve the results intended. Any special or unique construction requirements should be communicated to the designer prior to the final design phase of the project.

The designer should be present at the preconstruction conference to explain special features and planned construction phasing where these considerations are necessary for the proper functioning of the design. It may be advisable and necessary to specify certain time limits and special instructions as to how the work will be accomplished. Phased construction to accommodate seasonal variations, floods, fish passage, etc., may be needed. In addition, the need for special considerations related to temporary work, detours and public safety issues can be outlined and discussed. It should be emphasized by the designer that any and all revisions of drainage designs as contained on construction plans should be discussed with the designer prior to execution.

The designer should use the procedures outlined in Chapter 6, Section 6.15 for the hydrology for temporary hydraulic facilities. These facilities include all inlets, pipes, channels, culverts or bridges which are required for stage construction, temporary roads, channel relocation, culvert installations, bridge construction and haul roads. They are to be designed with the same care that is used for the primary facility.