

and feasibility of alternative designs must be included. This is especially important for unusual and major structures. The Bridge Selection Report will be included as an Appendix to the DCR.

The results of bridge type selection process will be summarized in the DCR. The factors that led to the selection of the preferred alternative will be thoroughly discussed. The proposed structures should be described and address:

- Foundation Type
- Substructure
- Superstructure
- Architectural Features
- Vertical and Horizontal Clearance
- Other Key Factors

The General Plan shall be included in the Drawings (A3 size) that will accompany the DCR.

314 UTILITY IMPACT ANALYSIS

Utility impacts are a key project issue, especially within existing transportation corridors. Data collection and coordination with the various agencies/departments is discussed in Part 1, Section 200, Design Concept Development. The second phase of work includes analysis of the existing and proposed utilities with respect to each alternative in order to permit estimation of costs and evaluation within the alternatives matrix.

Utility corridors including proposed Service Reservations should be identified and indicated on the typical sections and roadway plans included in the DCR. For urban projects, the location of service reservations will affect the roadway geometrics including parking areas, green areas and the proposed pavement surfacing.

The DCR will include a thorough discussion of the utility impacts and a tabulation of the existing utility inventory as follows:

- Item Number
- Owner
- Description
- Station

- Location
- Status
- Remarks

The DCR will summarize the impacts for each major utility (water, sewer, telephone, irrigation, electrical). The responsibility for design and construction of the facilities will be addressed. Schematic plans showing the major existing and proposed utilities should be prepared and included in the drawings section. Recommendations will be given for general utility relocation schemes and for resolution of specific utility conflicts. Associated utility costs will be included in the preliminary cost estimate.

For larger projects a separate Utility Report should be prepared and included as an Appendix to the DCR.

315 SOCIOECONOMIC ANALYSIS

An analysis and discussion of the socioeconomic data per the requirements described in Part 1, Section 202, Environmental Factors Influencing Design, shall be included in the DCR. Each of the topics covered in Part 1, Section 202, Environmental Factors Influencing Design shall be included or, if not relevant, it should be so stated including the reason why it is not relevant.

For any of the topics which are *not* relevant, prior approval from the Municipality is required to exclude the issue from the DCR. The required information as to the reasons why the topics are not relevant shall be summarized in a concise Technical Memorandum accompanied by supporting documentation as necessary. The Municipality shall make a determination as to the relevance of the topic based on this information. The Technical Memorandum and supporting documentation is to be included as a separate appendix in the DCR.

316 AGRICULTURE IMPACT

Agricultural resources are important to man's survival and therefore must be preserved to the greatest extent possible. The Consultant shall identify the potential impact that the proposed project alternatives may have on these resources within the study area. Primarily, this involves