SANITARY SERVICING ALTERNATIVES

The following sanitary servicing alternatives have been evaluated:

DO NOTHING

It is important in the environmental review process that all planning alternatives are adequately considered. Before developing and analyzing various servicing alternatives, the "Do Nothing" alternative was evaluated. The Official Plans of the Regional Municipality of Waterloo and the City of Kitchener include provisions for development within and adjacent to the general study boundary area. The provision of a sanitary sewage system is a pre-requisite for development. It is therefore suggested that the “do nothing” alternative is not viable.

SEWAGE PUMPING STATION AND FORCEMAIN ALTERNATIVES

A centrally located waste water pumping station (WWPS) would provide a potential design solution. It is anticipated that this alternative would be located within the low lying valley lands, and would discharge effluent via a forcemain extending to the current terminus point of the trunk sewer. The design of this facility would require sufficient capacity to convey flows from future upstream development lands.

GRAVITY SEWER ALTERNATIVES

Three alternative locations for the alignment of the gravity sewer were developed and are illustrated on Figure 4.0. A description of the alternatives is as follows:

- **Alternative A**
  Replacement/Retrofit of existing 675mm diameter gravity sewer adjacent to the wetland complex, and installation of a new 675mm diameter gravity sewer extending westerly to the existing Plains Road right-of-way

- **Alternative B**
  Installation of a 900mm diameter gravity sewer extending south along future Strasburg Road right-of-way, then westerly within the valley lands of the South Branch of Strasburg Creek, extending to Fischer-Hallman Road on the north side of the central deciduous woodland/wetland feature

- **Alternative C**
  Installation of a 900mm diameter gravity sewer extending along the alignment of the future Strasburg Road right-of-way, then westerly within the valley lands of the South Branch of Strasburg Creek, on the south side of the central deciduous woodland/wetland feature, extending through future development lands to a natural topographic draw approximately 250 metres east of Fischer Hallman Road