



15. Specialist Design Elements

15.1 General

The Highway Design Guide provides the Developers with most of the information required for the planning, design and implementation of roads, footpaths and cycleways. However, there may be elements of the design that effects a particular site and are outside the scope of this guide; the developer should therefore refer to the Bibliography in section 20 for further guidance.

The following three supplements to this guide are provided to assist the Developer in the design of the estates infrastructure concerning the main areas, and amended to suit the policies and requirements for the City:

- Construction and specification
- Street lighting
- Traffic signs and lines.
- Trees

15.2 Construction

The Civil Engineering Industry has produced nationally accepted standards for the construction of highway and drainage works. The Department of Transport's *'Manual of Contract Documents for Highway Works'* particularly Vol 1.

Specification for Highway Works and Design Manual for Roads and Bridges, is particularly relevant to York. Unless amended by the supplement to this guide the national standards will apply.

15.3 Street Lighting

Street lighting systems in accordance with the current British Standard (BS 5489) will be required on all roads, footpaths and cycleway to be adopted, and on any existing roads that may be modified to accommodate the new development. Details of the layout, specification and type of lighting to be used is covered in the supplement to this guide.



In conservation areas the style and fixing of lighting equipment will be specified by the City Council, and this may include decorative columns and lantern. Developers should contact the street lighting engineer for the Authority as soon as possible in the design stage to determine the requirements.

Consideration must be given to street trees and their future growth when positioning street lighting columns near to them to avoid unnecessary regular pruning operations. Tree roots must not be damaged during the installation of street lighting equipment.

It will no longer be appropriate to design lighting systems to 'footway standard'. However there may be exceptions to this in certain sensitive areas and therefore again the advice of the street lighting engineer must be sought.

15.4 Traffic Signs and Lines

Traffic signs and road markings play a very important role in road safety, but the wholesale use of them on minor estate roads lessens their value where there is a real need and leads to an over proliferation of signs and future maintenance liabilities.

The developer will be expected to provide all traffic signs and road markings as approved by the Authority that are consequent upon the development. It should be noted that this may involve signs and marking on the existing highway and occasionally with signing at some distance from the development.

Road markings and traffic signs will need to be in accordance with current edition of the Traffic Signs Regulations and General Directions 1994 and the 'Traffic Signs Manual' issued by the Department of Transport, unless amended by the supplement to this guide. The design, location and mounting of traffic signs should be in accordance with Circular 7/75.

When positioning traffic signs, careful consideration must be given to trees and their future growth to avoid unnecessary regular pruning operations. N.B. placing signs adjacent to certain species of trees that produce annual stem growth or have a weeping habit such as Limes or Weeping Willows will create an unreasonable maintenance issue. Tree roots must not be damaged during installation of signs.