

Brighton Place – Design Criteria

Design Standards

BS7533 – Part 10: Guide for the Structural Design of Trafficked Pavements Constructed of Natural Stone Setts

Design Assumptions/Decisions

No traffic counts were undertaken but the largest volume of HGV's using Brighton Place is service buses. Using the number of known bus journeys and conservative estimates for the number of other commercial vehicles, as a guide, Brighton Place is assumed to be Site Category IA – less than or equal to 1000 standard CV axles per day (Table 1). Also see "Brighton Place - Traffic Data.pdf" for more information.

Sett Size 4 – Max 300mm (l) x 150mm (w) and min 150mm (d) (Tables 2 & 3). From the Pavement Investigation carried out in September 2015, the existing setts vary in depth between 150mm and 180mm

Bedding Mortar – Type B (Table 3)

Joint Strength - 40N/mm² (Table 3)

Subgrade CBR – min 5% (Table 7). Pavement Investigation indicates a CBR of between 17-41%.

Foundation – 150mm thick Type 1 Sub-base (Table 7)

Base – 200mm thick AC20 40/60 Bituminous Bound Base (Table 7)