APPENDIX 5/1 DRAINAGE REQUIREMENTS

3 Foul and Surface Water Drains

Contrary to paragraph 2 of the Preamble to the Specification, the specification for the works to be adopted by Southern Water shall be 'Sewers for Adoption', Seventh Edition. The pipework to be offered for adoption are shown on Drawing Nos RJ504381/551 and 552 and identified by the note of either 'SWS' or FWS' against the pipe.

i) The details of the foul and surface water sewers and lateral drains are detailed in Schedules 1a and 1b of this Appendix.

ii) The details of the chambers on the foul and surface water sewers and lateral drains are detailed in Schedules 3a and 3b of this Appendix.

iii) Permitted alternative pipe and bedding combinations see Schedule 2a of this Appendix.

iv) Joints in foul and surface water drains shall be watertight.

v) The locations of existing drains to be sealed, removed or filled in accordance with Clause 506.3 shall be as stated in the Works Information.

4 Highway Drains and Private Drains

Details of highway and private drains are set in the schedules noted in 3 i) to v) above.

5 Filter Drains

i) Details of Filter Drains are detailed in the Schedule 1c of this Appendix

ii) For trench, bedding and backfill details see HCC Standard Detail Drawing No. HCC9/D/010.

6 Chamber Covers & Frames

Chamber covers and frames shall conform to the following:

i) All covers and frames shall be made of ductile iron and shall be both certified by a UKAS accredited body (e.g. BSI or equivalent) and to BS EN 124 (Class D400), unless otherwise stated by the Overseeing Organisation.

ii) Minimum frame depth shall be 150mm, unless otherwise stated by the Overseeing Organisation.

iii) All covers and frames shall incorporate a permanent non-rock feature. If the security of the chamber cover within the frame relies upon the depth of insertion only, the depth of insertion shall be increased to 80 mm.

iv) Where a chamber cover incorporates couplings they shall be loose couplings of steel hexagon headed complying with BS 4190. They shall be no less than M16 size complete with a hexagon nut. Other type of loose coupling shall have a minimum cross-sectional area of 140mm^2.

v) Pins and circlips used as part of the securing device shall be of equal cross-section or be sufficiently protected to give a life equal to the main components.

vi) Chamber covers shall be provided with at least two keyways. Where a cover is divided into two or more sections, each section shall be provided with at least one keyway. Closed keyways shall be used at all times.

vii) The cover shall be of suitable material, design and construction to achieve an in-service skid/slip resistance potential suitable for the condition of use. This shall be determined by the accelerated polish test method described in BS9124. The minimum PSRV shall be ……

viii) All chamber frames shall have a minimum bedding width of the frame of 75mm which shall be solid metal. If slots/holes are incorporated within the bedding area of the frame the overall width of the frame shall be increased to give a compensating area of solid flange. The external corners of the