



ASDA Ferring – Drainage Strategy Statement Rev P4

Adept Consulting Engineers were appointed by Asda to produce a drainage strategy plan for a new petrol filling station. It is understood that the existing area was previously used as an overflow carpark. The site is located within Flood Zone 1.

Adept Consulting Engineers have prepared drawing numbers PSK 100 rev P4 which shows proposals for the disposing of surface water from site. Comments below refer to this drawing.

Existing Conditions

It is understood that the current site impermeable area drains to open watercourse via private drainage. As Built records indicate that the existing carpark area sub-base material is used as attenuation (Refer to GDP drawing C.01 Rev X) Preliminary borehole information indicates substrata conditions to be stiff clay down to 5.0m bgl with chalk deposits below. Soakaways are not therefore deemed an effective means of drainage from the PFS.

The overflow carpark drainage is directly linked to the main access road drainage and flows are restricted from this area of site via a Hydrobrake.

There are no foul water sewers or combined water connections in this part of the site – However an existing FW rising main is located to the Eastern boundary of the proposed PFS. This reverts to a gravity FW sewer at the site boundary.

Proposed Conditions

Surface Water

Current proposals for the PFS would mean that the majority of existing sub base attenuation for the site would be removed in order to avoid any potential contamination issues should spillages occur. As a result, compensatory storage will be provided to negate the removal of the sub-base attenuation. Preliminary calculations indicate that around 68m³ of new attenuation will be required to retain the Status Quo for the development.

Canopy drainage and general hardstanding areas will be discharged to the main surface water system. The existing Hydrobrake serving the site will be retained

Foul water

New connections from the main forecourt (with the potential for major fuel spillages) will be drained to the existing foul water sewer to the east of the site into the gravity discharge manhole of the foul rising main. A new S106 application will be required with the statutory undertaker for this connection. All water from offset fill points and drainage channels discharging water from filling areas from site will be drained through a 10,000 ltr class 1 Forecourt Interceptor prior to being discharged.



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