Ductile iron cover and frame to BS EN124 and to be badged SW or FW, as applicable. Bedded on class M1, M2 or Epoxy mortar. Approved packing material may be used if required.

Class M1, M2 or Epoxy mortar haunching to cover and frame.

Type 2 cover frame seating rings with 600x600 central access hole.

Type 1 cover frame seating ring with 600x600 eccentric access hole (BS753-3) bedded on mortar.

Reinforced concrete cover slab with 750x600 access (BS753-3) bedded on mortar.

Precast concrete chamber sections to be bedded with mortar, proprietary bitumen or resin mastic sealant.

I50mm thick grade C20 concrete surround (sulphate resisting).

Construction joint.

Class M1, M2 or Epoxy mortar haunching to cover and frame

Reinforced concrete cover slab with 750x600 access (BS752-3) bedded on mortar.

150mm thick grade C20 concrete surround (sulphate resisting).

Stainless steel (grade 316S31 BS5970) or polypropylene encapsulated all to BS1247 parts 1-2, double step rungs (280mm min. width at 250mm centres max). Max distance from cover level to first step 675mm.

675 max.

see engineering layout

Section A-A

Gap between casings and borehole to filled with a bentonite grout.

Bareshales of between 150-200mm for casings or 100-150mm respectively. All casings to be screw-thread Hydrolene or similar approved.

Gap between casings and borehole within permeable strata to filled with a pea shingle.

Grout or pea shingle to plug bottom of overbore section.

Levels to be determined by borehole drilling and soakaway test carried out in accordance with BRE365.

Dependent upon borehole drilling soakaway test

INVERT LEVEL (IL)

COVER LEVEL (IL)

BASE LEVEL (BL)

Feeder pipe with slotted perforations, a 425mm geomesh inner filter and an outer protective layer.

Inlet pipe. Check engineering layout for invert levels.

Access cap.

see engineering layout

IMPERMEABLE/PERMEABLE

Grout or pea shingle to plug bottom of overbore section.

GROUT OR PERMEABLE

Rocker pipe/inlet pipe.

Slotted feeder pipe.

Insitu concrete base.

Borehole casings.

Rocker pipe/inlet pipe.

Insitu concrete base.

Borehole casings.

Insitu concrete

Surround.

Pre-cast concrete mainhole rings.

Insitu concrete surround.

Pre-cast concrete cover slab.

Construction joint.

Securing rings or eng. brick.