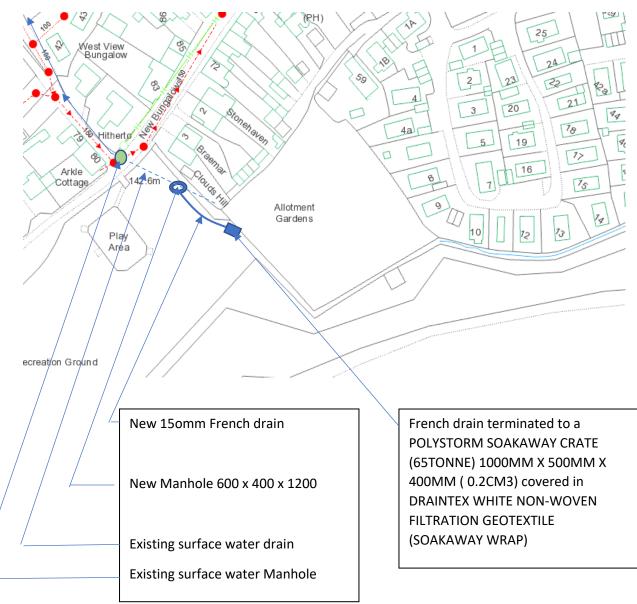
New manhole for Bradenstoke Playpark





Existing manhole. Road. Hedge.	New manhole	Soakaway
		Crate

New Manhole for Bradenstoke Play Park.

The manhole is constructed with concrete base of thickness 150mm.

Silt chamber constructed using high density concrete blocks. One level below pipe level

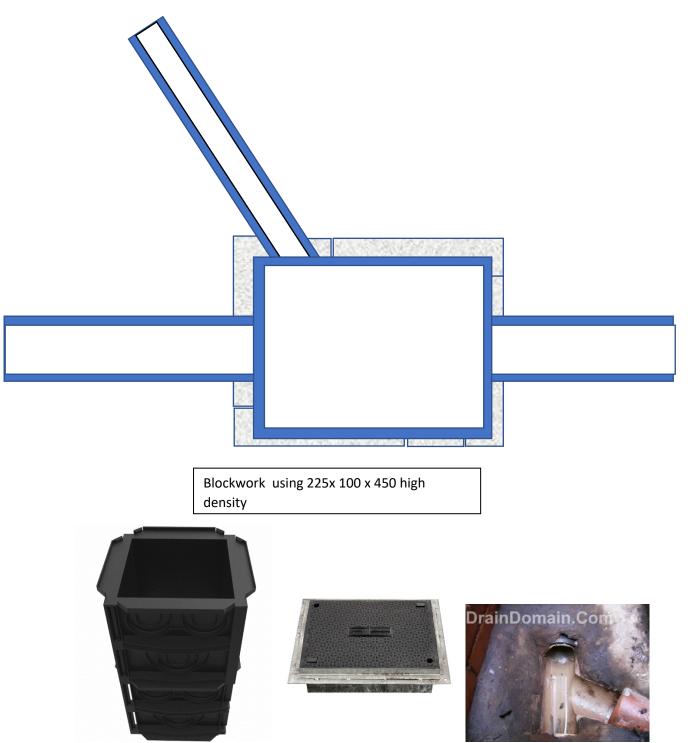
There is a layer of blocks at pipe level and one above level . The pipes are sealed with cement mortar.

The chamber is constructed using Duct access chamber Easyliner MELXX from BP plastics

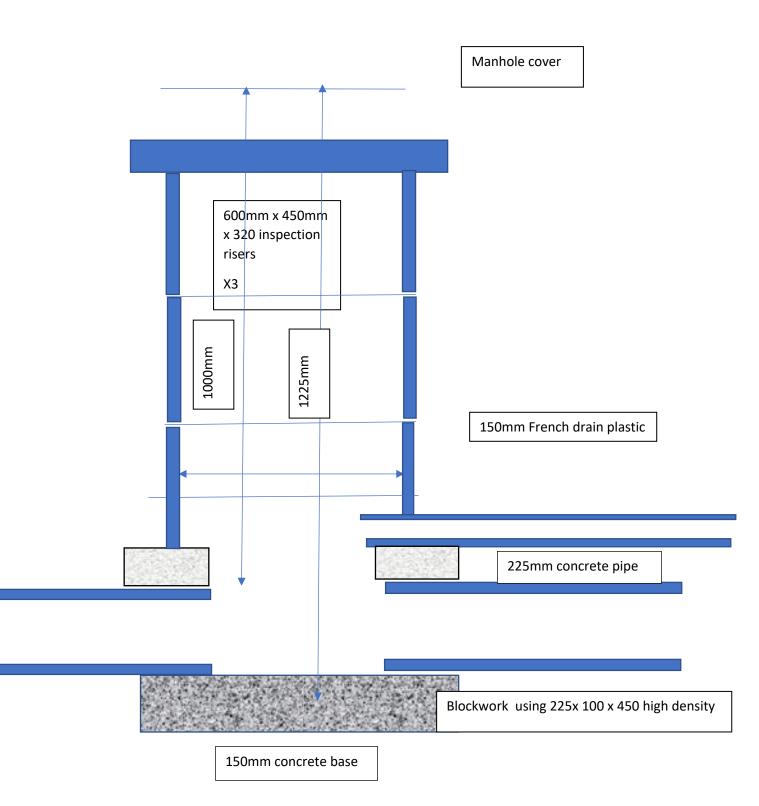
The French drain is cut into the chamber and flaunched with cement mortar. Laid in pea gravel.

Outside of the chamber is back filled with earth and a concrete surround is put in at ground level to a depth of 150mm to support the manhole cover.

The manhole cover has a reducer to 350mm to limit access.





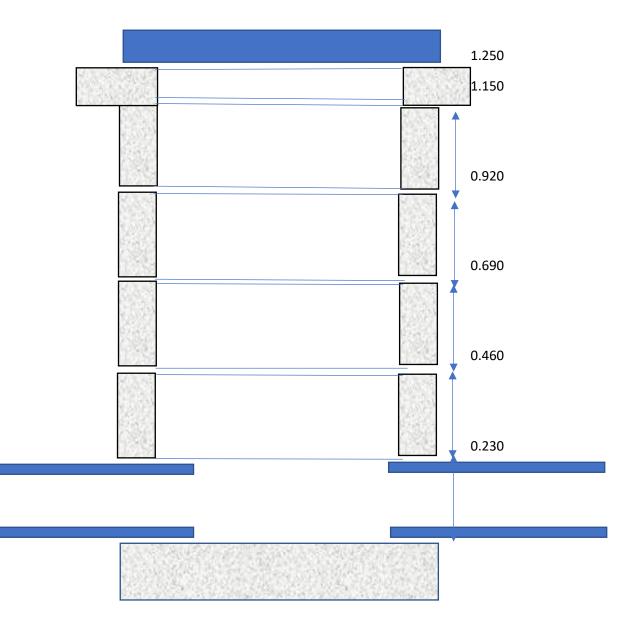


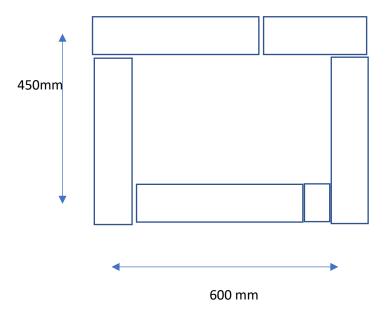
Costings

Concrete base 800 x 650 x 150 (166KG)		
Cement 2 bags (50kg) (42kg)	= 2 x £4.75 (wickes) =	£9.50
Ballast 6 bags (150kg) (124 kg)	= 6 x £2.30(wickes) =	£13.80
Blocks Standard dense block 7.3NM 440 x 215 x 100	= 5 @ £1.75 at Wickes =	£8.75
Mortar		
Cement 1bags	= 3 X £4.75 (wickes) =	£ 4.75
Sand 4 bags	= 4 x £2.00 (wickes)	£8.00
Duct Access Easy Liner	= 3 x £22.68(BP Plastics)£68.04	
Manhole to fit above liner	=(BP Plastics)	£151.20
Total		£264.04
French Drain		
150mm x 6M perforated pipe	=4 x £22.68	£90.72
150mm pipe couplers	=4 x £3.08	£9.24
150mm seals	=8 x £2	£16.00
Crate	= 1 x £31.05	£31.05
Membrane 10m x 1 m	=1 x £21.59	£21.59
Total		£168.60

Grand Total

£432.64





Top level concrete blocks laid flat. X5

Each level 5 concrete block

5 levels = 25 blocks 440 x 215 x 100

Total blocks = 30 blocks

Materials Required

Grand total

Concrete base 800 x 650 x 150 (166KG)				
Cement 2 bags (50kg) (42kg)	= 2 x £4.75 (wickes) =	£9.50		
Ballast 6 bags (150kg) (124 kg)	= 6 x £2.30(wickes) =	£13.80		
Blocks Standard dense block 7.3NM 440 x 215 x 100	= 30 @ £1.75 at Wickes =	£52.25		
Mortor				
Cement 3bags	= 3 X £4.75 (wickes) =	£ 14.25		
Sand 15 bags	= 15 x £2.00 (wickes)	£30.00		
Manhole cover 600 x 450 Clark-Drain Manhole Cover and Frame Ductile Iron 450mm x 600mm				
854105	=	£99. (Travis Perkins)		
Total		£218		
French Drain				
150mm x 6M perforated pipe	=4 x £22.68	£90.72		
150mm pipe couplers	=4 x £3.08	£9.24		
150mm seals	=8 x £2	£16.00		
Crate	= 1 x £31.05	£31.05		
Membrane 10m x 1 m	=1 x £21.59	£21.59		
Total		£168.60		

£386.60