S08 - Flow Control Chamber Section
Scale 1:20

Labels:
- Precast concrete cover frame seating rings (min 1, max 3)
- Cover and frame to BS EN 124 & Clause E2.32 with minimum 600x600 clear opening
- Class M1 mortar bedding & haunching to cover & frame to Clause E6.7
- Pull handle and eye bracket for operating steel rope
- 1500
- Pivoting by-pass door operating steel rope
- GEN3 Concrete mounting wall
- 225Ø Pipe
- 155
- 990
- 595
- 310 min
- 600
- 225
- 225Ø Pipe
- 225mm min GEN3 concrete base
- 75mm GEN 3 concrete blinding

Section Through Geocellular Attenuation Tank 1 (Tank 2 similar)
Scale 1:20

Labels:
- Vented access box
- Vent cowl
- Class D400 cover and frame to BS EN 124 with minimum 600x600 clear opening
- Class M1 mortar haunch
- Precast concrete cover frame seating rings (min 1, max 3)
- Cast in-situ 300x150mm thick Gen3 concrete collar
- Impermeable geomembrane, 1mm thick Polypropylene fully welded/sealed in accordance with manufacturers specification
- 150mm wide x 150mm deep GEN3 concrete slab to support cover and frame
- 500mm Ø slip coupler
- Polystorm Access shaft
- 100Ø uPVC Air Vent pipe with recessed cowl
- Attenuation tank to be wrapped in permeable non-woven geotextile
- 300Ø pipe from silt trap
- 100mm min. coarse sand or non angular granular base material and surround
- Formation of attenuation tank assumed to be on undisturbed natural ground. All soft/hard spots to be dug out and backfilled with well compacted DfT Type 1 sub-base. Trench bottom to be proof rolled to provide a uniform support and capped with min. 100mm coarse sand.
- Single row of Polystorm Inspect cells (PSM4) under access turrets in-line with inlet and outlet pipes
- 10m x 46m x 1.2m Polystorm geocellular attenuation tank by Polypipe (PSM1A & PSM4 units)

NOTE:
Ground above tank to be backfilled in accordance with external works details with well compacted 6F2 capping material prior to installation of sub-base and road build-up

S08 - Flow Control Chamber Plan
Scale 1:20

Hydro-brake optimum technical specification		
Control point	Head (m)	Flow (l/s)
Primary Design	1.200	10.400
Flush-Flo	0.355	10.396
Kick-Flo	0.778	8.486
Mean Flow		8.994

Labels:
- 225Ø Pipe
- 150mm GEN3 concrete surround
- Sump
- Hydrobrake flow control unit (145mmØ orifice) SHE-0145-1040-1200-1040 (supplied by Hydro International)
- 225Ø Pipe
- 225Ø Pipe
- 645
- 850
- 1500mm diameter chamber ring
- 600x600 access opening to be positioned above hydrobrake
- 1500 Pipe

TYPICAL 600Ø SILT TRAP
scale 1:20

Labels:
- 600x600x150 ductile iron cover & frame to BS EN 124 and BS 7903 - Class D400
- Class M1 mortar haunch
- Class B engineering brick or precast concrete frame seating rings (min 1, max 3)
- 250mm wide x150mm deep GEN3 concrete slab to support cover and frame
- 350
- 600
- 300 sump
- VARIABLE
- Backfill around chamber with 150mm GEN3 concrete
- 150/225mm uPVC Pipe
- 600Ø polypropylene Silt Trap
- 100mm GEN3 concrete bed

NOTE:
350Ø restricted access opening to be used where depth of chamber to invert is >1.2m

S07 - Silt Trap Plan
Scale 1:20

Labels:
- 3000 pipe to tank
- Outlet pipe fitted with mesh leaf guard
- 150mm GEN3 concrete surround
- 1500mm diameter PCC chamber ring
- 300Ø pipe

S07 - Silt Trap Section
Scale 1:20

Labels:
- Cover and frame to BS EN 124 & Clause E2.32 with minimum 600x600 clear opening
- Class M1 mortar bedding & haunching to cover & frame to Clause E6.7
- Precast concrete cover frame seating rings (min 1, max 3)
- Precast concrete cover slab complying with E2.30 with a 600x750 opening
- 1500Ø precast concrete shaft rings complying with Clause E2.29 Jointed with mortar
- Double steps at 250 ctrs vertically
- 1500
- 150mm GEN3 concrete surround
- Lifting holes in concrete rings to be pointed
- 300Ø pipe to tank
- 300Ø pipe
- 300
- 300mm deep sump formed in-situ with GEN3 concrete
- 225mm GEN3 concrete base
- 75mm GEN 3 concrete blinding

Rev | Description | Date | Revised by | Checked by | Approved
Issue Purpose: Approval
Do not scale from this drawing