1in30year+CC Extent (2070's Epoch)
1in100year+CC Extent (2070's Epoch)
1in1000year+CC Extent (2070's Epoch)

Midway House

Pond

18.3m

LB

120100

SWALE
DEPTH: 0.5m
TOP WIDTH: 1.7m
LENGTH: 59m
SIDE SLOPE: 1in1.0
BASE WIDTH: 0.75m
MAXIMUM RESIDENT VOLUME: 27.92m³
TOTAL AVAILABLE STORAGE: 31.22m³
OUTFLOW VIA 30mm ORIFICE LIMITING RUNOFF TO 1.0l/s
PROTECTED OUTLET WITH RUNOFF FILTERED THROUGH 8-20mm CLEAN CRUSHED STONE TO REDUCE RISK OF BLOCKAGE
PERFORATED PIPE INCORPORATED INTO BASE OF SWALE TO AID CONVEYANCE AND PROMOTE ATTENUATION ACROSS ENTIRE LENGTH OF SUDS FEATURE

NORTH TANK
AQUACELL OR SIMILAR CRATE STORAGE
TANK LOCATED BENEATH ACCESS ROAD. PROVIDE VENT PIPE AT SUITABLE LOCATION
EXCEEDANCE LEVEL 18.80m
IL: 17.90m
PLAN AREA: 54m²
DEPTH: 0.40m
MAXIMUM RESIDENT VOLUME: 24.71m³
TOTAL VOLUME AVAILABLE: 24.82m³
NO. CRATES L: 50
NO. CRATES W: 8
NO.CRATE H: 1
OUTLET:
HYDROBRAKE 0.7l/s
UNIT REF: CHE-0058-4000-0700-4000

Plot 8 - Driveway 0.01ha
Plot 8 - Outbuilding 0.00ha
Plot 8 - Dwelling 0.01ha
Plot 9 - Driveway 0.01ha
Plot 9 - Dwelling 0.01ha
Plot 9 - Outbuilding 0.00ha
Plot 7 - Dwelling 0.01ha
Plot 7 - Driveway 0.01ha
Plot 7 - Outbuilding 0.00ha
Plot 8 - Driveway 0.01ha
Plot 6 - Outbuilding 0.00ha
North Access Road 0.04ha
Plot 6 - Dwelling 0.01ha
Plot 5 - Dwelling 0.01ha
Plot 5 - Driveway 0.01ha
Plot 5 - Outbuilding 0.00ha

PLOTS 5-9 DRIVEWAYS:
TYPE C PERMEABLE PAVING CONSTRUCTION
Aquaflow® BLOCK PAVING OR SIMILAR PERMEABLE SURFACING. Aquaflow® BLOCKS PROVIDE DRAINAGE THROUGH VERTICAL CHANNELS AND ALLOW WATER THROUGH AT A RATE OF APPROXIMATELY 9000mm PER HOUR (9000 LITRES PER m² PER HOUR)
TOTAL AVAILABLE AREA: CIRCA. 60m²
SUB-BASE DEPTH: 300mm
TO BE UTILISED FOR ATTENUATION AND TREATMENT
ORIFICE FLOW CONTROL: 20mm
MODELLED RUNOFF RATE: 0.2l/s
SUB-BASE TO BE LAID FLAT
FINISHED (SUBJECT TO ARCHITECT SPECIFICATION - BLOCK PAVING OR SIMILAR. SUB-BASE TO BE LINED (NO INFILTRATION)
1. PERMEABLE BLOCK SURFACING
2. LAYING COURSE MATERIAL
3. GEOTEXTILE
4. SUB-BASE - HIGH STRENGTH GEOCELLULAR CRATE SYSTEM - THICKNESS 300mm. SUBJECT TO SITE CBR'S
5. IMPERMEABLE MEMBRANE
ENSURE SUFFICIENT COVER IS PROVIDED FOR ANTICIPATED LOADING - UP TO MANUFACTURER'S SPECIFICATIONS
ANY RUNOFF NOT FILTERED THROUGH PERMEABLE PAVING TO BE FILTERED THROUGH CRUSHED STONE MEDIUM TO REDUCE RISK OF SILTING

FINAL OUTFALL RATE FOR DESIGN CRITICAL STORMS
1in30year: 0.7l/s
1in100year+CC: 0.7l/s
1in1000year+CC: 0.7l/s

SWALE (1)
DEPTH: 0.45m
TOP WIDTH: 1.80m
LENGTH: 65m
SIDE SLOPE: 1in1.0
BASE WIDTH: 0.90m
MAXIMUM RESIDENT VOLUME: 37.90m³
TOTAL AVAILABLE STORAGE: 39.49m³
OUTFLOW VIA 30mm ORIFICE LIMITING RUNOFF TO 0.5l/s
PROTECTED OUTLET WITH RUNOFF FILTERED THROUGH 8-20mm CLEAN CRUSHED STONE TO REDUCE RISK OF BLOCKAGE
PERFORATED PIPE INCORPORATED INTO BASE OF SWALE TO AID CONVEYANCE AND PROMOTE ATTENUATION ACROSS ENTIRE LENGTH OF SUDS FEATURE

PLAN AREA: 13.30m²
MAXIMUM RESIDENT VOLUME: 13.30m³
TOTAL VOLUME AVAILABLE: 13.30m³
NO. CRATES L: 25
NO. CRATES W: 8
NO.CRATE H: 1
OUTLET:
HYDROBRAKE 0.4l/s
UNIT REF: CHE-0058-4000-0400-4000

Plot 4 - Driveway 0.01ha
Plot 4 - Outbuilding 0.00ha
Plot 4 - Dwelling 0.01ha
Plot 3 - Dwelling 0.01ha
Plot 3 - Driveway 0.01ha
Plot 3 - Outbuilding 0.00ha
South Access Road 0.00ha
Plot 1 - Driveway 0.01ha
Plot 1 - Dwelling 0.01ha
Plot 2 - Driveway 0.01ha
Plot 2 - Outbuilding 0.00ha
Plot 2 - Dwelling 0.01ha

PLOTS 1-4 DRIVEWAYS:
TYPE C PERMEABLE PAVING CONSTRUCTION
Aquaflow® BLOCK PAVING OR SIMILAR PERMEABLE SURFACING. Aquaflow® BLOCKS PROVIDE DRAINAGE THROUGH VERTICAL CHANNELS AND ALLOW WATER THROUGH AT A RATE OF APPROXIMATELY 9000mm PER HOUR (9000 LITRES PER m² PER HOUR)
TOTAL AVAILABLE AREA: CIRCA. 60m²
SUB-BASE DEPTH: 300mm (PLOT 2 AND 3) 250mm (PLOT 1 AND 4)
TO BE UTILISED FOR ATTENUATION AND TREATMENT
ORIFICE FLOW CONTROL: 20mm
MODELLED RUNOFF RATE: 0.2l/s
SUB-BASE TO BE LAID FLAT
FINISHED (SUBJECT TO ARCHITECT SPECIFICATION - BLOCK PAVING OR SIMILAR. SUB-BASE TO BE LINED (NO INFILTRATION)
1. PERMEABLE BLOCK SURFACING
2. LAYING COURSE MATERIAL
3. GEOTEXTILE
4. SUB-BASE - HIGH STRENGTH GEOCELLULAR CRATE SYSTEM - THICKNESS 300mm. SUBJECT TO SITE CBR'S
5. IMPERMEABLE MEMBRANE
ENSURE SUFFICIENT COVER IS PROVIDED FOR ANTICIPATED LOADING - UP TO MANUFACTURER'S SPECIFICATIONS
ANY RUNOFF NOT FILTERED THROUGH PERMEABLE PAVING TO BE FILTERED THROUGH CRUSHED STONE MEDIUM TO REDUCE RISK OF SILTING

NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT REPORTS, PLANS AND ARCHITECTURAL DRAWINGS
2. THIS DRAWING SHOULD NOT BE SCALED. THERE SHOULD BE NO RELIANCE ON THIS DRAWING WITH REGARDS TO DIMENSIONS. ALL DIMENSIONS SHOULD BE CONFIRMED ON SITE.
3. ANY DISCREPANCY ON THIS DRAWING SHOULD BE REPORTED TO AEGAEA IMMEDIATELY FOR CLARIFICATION.
4. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORKS AND FOR THE STABILITY, INSTALLATION AND HEALTH AND SAFETY OF THE WORKS.
5. AEGAEA HAVE PRODUCED THIS DRAWING BASED ON THE DRAWINGS AND INFORMATION PROVIDED BY THE CLIENT AVAILABLE AT THE TIME OF PRODUCTION. WE CANNOT ACCEPT RESPONSIBILITY FOR DISCREPANCIES RESULTING FROM NEW PLANS/ INFORMATION BEING ISSUED POST-ISSUE OF THIS DRAWING. THE CONTRACTOR SHOULD REVIEW THIS DRAWING IN LIGHT OF WIDER SITE INFORMATION SUCH AS CONTAMINATION, UTILITIES SURVEYS AND SITE INVESTIGATIONS
6. IT IS THE RESPONSIBILITY OF THE PRINCIPLE CONTRACTOR TO MAKE THE DESIGNER AND CLIENT AWARE OF SITE-SPECIFIC RISKS AND HAZARDS THAT MAY AFFECT THE DRAWING AND SPECIFICATION

LEGEND

- PROPOSED SURFACE WATER MANHOLE
- PROPOSED PRIVATE SURFACE WATER DRAIN
- PROPOSED SURFACE WATER FLOW CONTROL
- SWALE
- TYPE C PERMEABLE PAVING
- CATCHMENT BOUNDARY
- EXCEEDANCE FLOW DIRECTION

CLIENT:
MANORWOOD

SITE:
LAND NORTH OF 1 JOLESFIELD COTTAGES, HORSHAM, RH13 8JT

DRAWING:
SURFACE WATER DRAINAGE LAYOUT

DRAWING NUMBER:
AEG8979-DR01 SHEET 1 OF 1

DATE: 12/01/2026

REV: A

DRAWN BY:
OH

DRAWING SCALE:
SEE DRAWING

PRELIMINARY DRAWING FOR PLANNING ONLY - NOT FOR CONSTRUCTION

aegaea
water, civils and environment