



## PRIVATE DRAINAGE


ALL BELOW GROUND PIPEWORK TO BE 100Ø UNLESS NOTED OTHERWISE

The diagram shows a horizontal line representing the ground level. Below it, several components are connected by a horizontal pipe line. From left to right, the components are: a vertical pipe labeled 'RE' (Rear Elevation) with an elevation of '1500.180'; a vertical pipe labeled 'S1' (Surface Water Chamber) with an elevation of '1.80'; a vertical pipe labeled 'CP1' (Surface Water Catchpit Chamber); a vertical pipe labeled 'HB' (Hydro-Brake Flow Control Manhole); and a vertical pipe labeled 'R' (Rodding Eye). The components are connected by a horizontal pipe line. The elevations are indicated by horizontal lines with arrows pointing to the components.

- SURFACE WATER DRAIN
- SURFACE WATER CHAMBER.
- SURFACE WATER CATCHPIT CHAMBER.
- RODDING EYE.
- HYDRO-BRAKE FLOW CONTROL MANHOLE.

 -PERMEABLE PAVING (TANKED).

 -BELOW GROUND GEOLIGHT SURFACE WATER ATTENUATION STORAGE SYSTEM BY SDS (TEL: 01934 751 303).

**RAT**  -REVERSE ACTION INTERCEPTOR REF. RI ??? BY HEPWORTH OR EQUIVALENT.

150Ø, 1:80 F1 -FOUL WATER DRAIN.  
 -FOUL WATER CHAMBER.

150Ø, 1:80 C1 -COMBINED DRAIN.  
 -COMBINED CHAMBER.

3050  -COMBINED DRAIN TO REMAIN.  
Ex.  -COMBINED DRAIN CHAMBER.

-EXISTING LEVEL.

× (50.00) -EXISTING LEVEL INTERPOLATED.

× 50.00 -PROPOSED LEVEL.

1:50 -PROPOSED FALL.

----- -PROPOSED VALLEY / RIDGE LINE.

◀ -EXCEEDANCE FLOOD ROUTING.



CHAMBER HB1 FITTED WITH HYDRO-BRAKE  
FLOW CONTROL.  
DESIGN HEAD = 0.80m  
DESIGN FLOW = 2l/s  
MODEL: MD-SHE-0066-2000-1050-2000

THE USE OF ANY OTHER FLOW CONTROL WILL INVALIDATE ANY DESIGN BASED ON THIS DATA AND COULD CONSTITUTE A FLOOD RISK. IF ALTERNATIVE PRODUCT IS PROPOSED THEN ABSTRACT CONSULTING TO BE ADVISED PRIOR TO START OF CONSTRUCTION SO THAT PROPOSED DESIGN CHANGE CAN BE REVIEWED AND VALIDATED.

BELOW GROUND GEOLIGHT SURFACE WATER  
ATTENUATION SYSTEM  
18m LONG x 8m WIDE x 0.75m EFFECTIVE DEP  
(94.33m³ OF STORAGE VOLUME)

ATTENUATION TANK FORMED USING SDS  
GEOLIGHT UNITS, FULLY TANKED AND CROSS  
VENTED AND INSTALLED FULLY IN ACCORDANCE  
WITH SDS RECOMMENDATIONS AND  
SPECIFICATIONS.  
SDS TEL: 01934 751 303

HARD PAVED AREAS FALL TOWARDS TANKED PERMEABLE PAVED PARKING BAYS.

PAVING TO DISCHARGE TO SURFACE WATER DRAINAGE SYSTEM.

SOLID HATCHED AREA IS  
POTENTIAL FUTURE PARKING  
THAT WILL NOT BE INSTALLED AT  
FIRST.

PARKING BAYS WILL BE PERMEABLE TO MATCH THOSE SHOWN, IMPERMEABLE AREA IS INCLUDED WITHIN THE CALCULATIONS FOR THE ATTENUATION TANK SO REMEDIAL WORKS WILL NOT BE REQUIRED TO THE TANK TO ACCOMMODATE THE ADDITIONAL HARD PAVED AREA.

INTERNAL FOUL WATER CHAMBERS  
LIKELY REQUIRED. LOCATIONS AND  
NUMBERS TO BE CONFIRMED  
DURING STAGE 4 DESIGN.

THAMES WATER SEWER SHOWN  
ON SEWER RECORDS. SEWER TO  
BE INVESTIGATED TO ENSURE IT  
ONLY TAKES FLOWS FROM THE  
DEVELOPMENT SITE.

IF NO OTHER FLOWS FOUND THEN  
SEWER TO BE DIVESTED AND  
REMOVED.

NEW CONNECTION TO THE THAMES WATER COMBINED SEWER.

CONNECTION WILL REQUIRE A S106 AGREEMENT WITH THAMES WATER.

NON AMENTIY SECTIONS OF ROOF  
TO HAVE EXTENSIVE (SEEDUM OF  
SIMILAR) GREEN ROOF COVERING.

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1. DO NOT SCALE THIS DRAWING.
2. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ENGINEERS' AND ARCHITECT'S DRAWINGS AND SPECIFICATIONS.
3. PUBLIC SEWER INFORMATION, AND STATUTORY SERVICE REQUIREMENTS IF SPECIFIED, BASED ON INFORMATION PROVIDED BY OR INTERPOLATED FROM PUBLIC SEWER AUTHORITY AND SERVICE PROVIDERS RECORDS. ALL INFORMATION RELATING TO SEWERS AND SERVICES TO BE SHOWN ON SITE BY CONTRACTOR AND ENGINEER INFORMED IF INFORMATION DIFFERS FROM THAT SHOWN.
4. INVERT LEVELS OF EXISTING DRAINAGE AT PROPOSED OUTFALL TO BE VERIFIED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION OF ANY DRAINAGE AND FINDINGS REPORTED TO ENGINEER FOR REVIEW AND ACTION IF REQUIRED.
5. ALL WORK TO PUBLIC SEWER NETWORK, INCLUDING MATERIALS, CONNECTIONS TO EXISTING MANHOLES, NEW MANHOLES AND ARRANGEMENT OF CONNECTION WITHIN MANHOLES TO BE FULLY IN ACCORDANCE WITH CURRENT EDITION OF SEWERS FOR ADOPTION AND SEWER INSTALLATION WORKERS REQUIREMENTS'S UNLESS NOTED OTHERWISE.

## CDM REGULATIONS 2015 RESIDUAL HAZARDS

**RESIDUAL HAZARDS IDENTIFIED** 

## CONSTRUCTION

1. NO SIGNIFICANT RESIDUAL HAZARDS BEYOND THOSE KNOWN TO AN EXPERIENCED CONTRACTOR.

### FUTURE DEMOLITION

- A. NO SIGNIFICANT RESIDUAL HAZARDS BEYOND THOSE KNOWN TO AN EXPERIENCED CONTRACTOR.

THIS REGISTER IS A NON-EXHAUSTIVE LIST OF RESIDUAL HAZARDS  
RELATING TO THE WORKS SHOWN ON THIS DRAWING THAT HAVE BEEN  
IDENTIFIED DURING THE DESIGN STAGE.

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A CONTRACTOR WITH THE APPROPRIATE SKILLS, KNOWLEDGE & EXPERIENCE, AND IF THEY ARE AN ORGANISATION, THE ORGANISATIONAL CAPABILITY NECESSARY TO FULFILL THE ROLE.

## PRELIMINARY ISSUE

P01	16/12/22	MH	MH	PRELIMINARY ISSUE.
Mark	Date	By	Chkd	Revision notes

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Job Title

WILLOW WAY,  
SYDENHAM.

Drawing Title

**DRAINAGE LAYOUT.**

Client  
KITEWOOD.

Abstract Job No AC22260	Drawn MH	Checked MH
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Scale @ A1 1:200	Date DEC'22	Date DEC'22
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File Name	Revision
AC22260-ABS-XX-XX-DR-C-5100	P0

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