

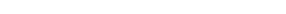


**DESIGN SUBJECT TO THE CONFIRMATION OF:**  
**EXTERNAL LEVELS DESIGN**  
**ORDINARY WATERCOURSE APPROVAL**  
**LOCATION AND DEPTH OF EXISTING UTILITIES**  
**ROOT PROTECTION AREAS**

**DESIGN SUBJECT TO THE APPROVAL OF:  
PLANNING AUTHORITY  
BUILDING CONTROL**

## DRAINAGE LEGEND

## EXISTING FEATURES

- - - - Ex CWS - - - Existing combined water sewer/drain and manhole
- - - Ex SWD - - Existing surface water sewer/drain and manhole
-  Existing foul/surface water sewer/drain and manhole to be abandoned

## PROPOSED FEATURES

FWD

Foul Drainage

SWD

Surface Water Drainage

Storm water inspection chamber (450Ø)

Storm water manhole (1200Ø)

Storm water catchpit (1200Ø)

Storm water vortex flow control chamber

Foul water inspection chamber (450Ø)

Foul water manhole (1200Ø)

00.000

Finished floor level

00.00

100Ø 4.5m 1:100 Pipe info - diameter, length, gradient, bedding type

#### ABBREVIATION

MH	- MANHOLE
IC	- INSPECTION CHAMBER
AC	- ACCESS CHAMBER
CP	- CATCHPIT
BC	- BRAKE CHAMBER
RE	- RODDING EYE
IL	- INVERT LEVEL
SL	- SUMP LEVEL
RA	- RESTRICTED ACCESS COVER
CL	- COVER LEVEL
TL	- TOP OF CELLULAR SA
BL	- BASE OF CELLULAR SA
FL	- FORMATION LEVEL

A horizontal scale bar with markings at 0m, 2m, 4m, 6m, 8m, 10m, and 20m. The markings are evenly spaced along a grey bar.

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### Site Specific Notes

1. The proposed scheme will consist of the demolition of an existing barn, office and workshop. Following the demolition, a new barn/workshop and office unit is to be constructed on site. There are also alterations to the external hard paved areas on site.
2. An infiltration test to BRE365 was carried out on site by CGS Civils Ltd. The test consisted of the excavation of a trial pit to a depth of 0.9mbgl followed by the rapid introduction of water. Over the course of an hour and 40 minutes, the water level failed to change and therefore the test was considered a failure.
3. A CCTV drainage survey was conducted on site by Eyes on Drainage Solutions Ltd on behalf of CGS Civils Ltd. The CCTV survey recorded the existing drainage arrangement on site and it is noted that the existing site discharges both surface and foul water into an existing culverted watercourse located on the opposing side of Okehurst Lane.
4. It is proposed that all surface water runoff from roof areas is to be discharged into the existing drainage network on site at a restricted rate of 2.0l/s. The proposed surface water network will make use of a geocellular attenuation tank in order to cater for the 1 in 100-year +45% storm.
5. The foul water is to be treated on site via a new package treatment plant. All treated effluent runoff is to then be discharged into the culverted watercourse via a new connection into the existing drainage network.

**AT1**  
Cellular Attenuation Storage Tank using  
Polypipe Polystorm R-/ units wrapped in  
impermeable geomembrane  
10.0 x 2.0 x 0.8m Thk.  
Provides 15.2m<sup>3</sup> storage required in critical  
1 in 100yr event +45% CCA  
CL 44.850  
TL 44.050  
BL 43.250  
Tank to be installed with min 500mm cover  
to units. To be vented and otherwise  
installed in accordance with manufacturer's  
recommendations

DEPTH OF EXISTING SURFACE WATER  
DRAIN TO BE CONFIRMED PRIOR TO  
CONSTRUCTION TO ENSURE PROPOSED  
SURFACE WATER DRAIN DOES NOT CLASH

DEPTH OF EXISTING SURFACE WATER  
DRAIN TO BE CONFIRMED PRIOR TO  
CONSTRUCTION TO ENSURE PROPOSED  
SURFACE WATER DRAIN DOES NOT CLASH

A vertical red zigzag line with various black and red markings. At the top, there is a red V-shape. Below it, a black hand-like shape is shown with red zigzag lines. Further down, a black V-shape is followed by a red zigzag line. At the very bottom, there is a green square with a red zigzag line passing through it.

**PROPOSED DISCHARGE SUBJECT TO OWC APPROVAL WITH WEST SUSSEX COUNTY COUNCIL**

**CONTRACTOR TO CONFIRM INVERT LEVEL OF DOWNSTREAM CONNECTION PRIOR TO INSTALLATION OF DRAINAGE**

**Ex SW7**  
**CL 44.000 (TBC)**

**Ex SWS 225Ø**

**F3**  
**CL 44.850**  
**IL 43.088**  
**1200Ø MH**

**FWD 150Ø**

**AT1**  
Cellular Attenuation Storage Tank using Polypipe Polystorm R-/ units wrapped in impermeable geomembrane  
10.0 x 2.0 x 0.8m Thk.  
Provides 15.2m<sup>3</sup> storage required in critical 1 in 100yr event +45% CCA  
CL 44.850  
TL 44.050  
BL 43.250  
Tank to be installed with min 500mm cover to units. To be vented and otherwise installed in accordance with manufacturer's recommendations

Architectural floor plan of a ship's interior, likely a cargo or storage area. The plan shows a large rectangular room with multiple doors, windows, and internal partitions. A large rectangular box in the center contains the text "45.000 TBC". To the left, there is a red-bordered area containing a grid icon and a blue circle with a cross. A blue dashed line labeled "SWD 225Ø" with a dimension of "4m" connects to a blue circle. Another blue dashed line labeled "SWD 150Ø 20.9m" connects to a blue circle at the top. To the right, a blue dashed line labeled "IL 44.050 450Ø IC" connects to a blue circle. On the far left, a blue box contains text: "ainwater harvesting Tank. 800 I Graf arat S or similar approved CL 44.850 43.164 CL 41.044". A blue dashed line labeled "SWD 225Ø" with a dimension of "4.8m" connects to a blue circle. A blue dashed line labeled "SWD 225Ø" with a dimension of "6.7m" connects to an orange circle. An orange box labeled "F1" contains: "CL 44.850 IL 44.050 450Ø IC". A blue dashed line labeled "SWD 150Ø 21.9m" connects to a blue circle. A blue dashed line labeled "FWD 150Ø 12.6m" connects to a blue circle. A blue dashed line labeled "FWD 150Ø 3.5m" connects to an orange circle. A blue dashed line labeled "STP1" connects to an orange circle. A blue dashed line labeled "S5" contains: "CL 44.850 IL 43.191 SL 42.891 12000 CP". A blue dashed line labeled "IL 44.050 450Ø IC" connects to a blue circle at the top right. A blue dashed line labeled "S8" contains: "CL 44.850 IL 44.050 450Ø IC". A blue dashed line labeled "SWD 150Ø 20.9m" connects to a blue circle at the top right.

Technical drawing of a gear assembly. The drawing shows a large gear at the top with a dashed green line extending downwards. A green dashed line also extends from the bottom gear upwards. Dimension lines indicate a width of 5.850, a height of 4.460, and a diameter of Ø MH. A blue box on the left contains the text 50, 60, MH. A blue circle is located on the far left. A blue box on the right contains the text 5.850, 4.460, Ø MH.

A black and white line drawing of a large, tropical plant, likely a Monstera, with several large leaves featuring prominent holes and serrated edges. The plant is shown from a side-on perspective, with its stem and leaves filling the frame. The drawing is composed of fine lines on a white background.

# FOR PLANNING ONLY

Prefixed to drawing numbers shall signify the following:-	
PL = PLANNING	Shall <u>not</u> be used for contract or construction purposes
PR = PRELIMINARY	Shall <u>not</u> be used for contract or construction purposes
TT = TENDER	Shall not be used for construction purposes
CC = CONSTRUCTION	These are the <u>only</u> drawings that shall be used for construction purposes
RR = RECORD	Record of actual completed work

PL1	24.03.25	INCLUDED SCALE BAR	LH	CS	CS
P-	31.07.24	PRELIMINARY ISSUE	LH	CS	CS
REV	DATE	DESCRIPTION	BY	CHK	APP

The logo for CGS Civils Consulting Civil Engineers. It features the letters 'cgs' in a bold, black, sans-serif font above a thick, blue, wavy horizontal line. Below the line, the word 'civils' is written in a large, bold, black, sans-serif font. A horizontal line separates the company name from the tagline 'Consulting Civil Engineers' in a smaller, black, sans-serif font.

DRAWING TITLE				
<h1>DRAINAGE STRATEGY</h1> <h2>SHEET 1 OF 2</h2>				
DRAWN	ENGINEER	CHECKED	APPROVED	
LH	C SLADE	CS	CS	
DATE	SCALE @ A1		1:200	
JULY 2024				
JOB No.	STATUS	DRAWING No.	REV.	
C3130	PL	101	PL1	