

SPECIFICATION NOTES

All drainage shall be constructed and commissioned in accordance with BS EN 295 & BS EN 752, Building Regulations Doc. H and any particular requirements of the Building Control Officer.

Drainage pipelines shall be in PVC-u below ground as Marley or similar approved, or vitrified clay.

This drawing shall be read in conjunction with all other relevant drainage drawings, architectural drawings and structural drawings.

For manhole details, gully details, bedding etc. refer to gta detail sheets.

All foul water drain runs shall have a fall of 1:40 or steeper, unless noted otherwise.

All cement used for concrete drainage installations shall be sulphate resistant class 35 (Grade S75).

The use of short radius or 90° bends for changes in direction is permitted, only long or medium radius 45° bends shall be used. All junctions shall be 45°.

All drains shall have granular bed and surround as class 'S' bedding, unless noted otherwise.

All drainage works shall commence from the downstream end first unless agreed otherwise. Outfall level to be checked by contractor prior to any works commencing and any discrepancy identified to engineer prior to laying and drainage.

**CELLULAR STORAGE**  
CL 45.850 - 46.940  
Top level 44.640  
Base level 44.140  
Plan dims 35m x 19m  
Depth 500mm  
Volume 316m³ (95% voids)  
Steel for the 1 in 100 year event + 45% for climate change  
Tank to be laid with slight fall towards outlet and wrapped in impermeable membrane  
Heavy duty tank for minimum cover of 550mm

1000 vent pipe to terminate at low level in landscaping. Location to be agreed with architect.

DESIGN NOTES

- ATTENUATION STORAGE SIZED FOR 1 IN 100 YEAR STORM + 45%.
- PROPOSED HEADWALL OUTFALL INTO DITCH WILL REQUIRE ORDINARY WATERCOURSE CONSENT FROM LLFA.
- PROPOSED CONNECTION TO EXISTING FOUL DRAIN REQUIRES SECTION 106 CONSENT FROM SOUTHERN WATER - OBTAINED.
- CONTRACTOR TO ESTABLISH LOCATIONS OF ALL EXISTING SERVICES PRIOR TO COMMENCING.
- EXISTING TREES TO BE PROTECTED WHERE EXCAVATIONS RUN CLOSE.

KEY

- Existing combined sewer
  - Existing ditch watercourse
  - Surface water drain
  - Foul drain
  - Rainwater pipe
  - Foul gully
  - PPCP
  - FIC
  - SCP
  - FMH
  - TD/CD
  - DT
  - RDPD
- ABBREVIATIONS**
- BG BIN STORE GULLY
  - CD CHANNEL DRAIN
  - CL COVER LEVEL
  - DT DISTRIBUTION TANK
  - FEL FINISHED FLOOR LEVEL
  - FG FOUL GULLY INTERNAL
  - FIC FOUL INSPECTION CHAMBER
  - FMH FOUL MANHOLE
  - FWD FOUL DRAIN
  - G FOUL GULLY EXTERNAL
  - IL INVERT LEVEL
  - LLFA LEAD LOCAL FLOOD AUTHORITY
  - PCC PRE CAST CONCRETE
  - PPCP POLYPIPE CATCHPIT
  - RDPD RAISED DAMP PROOF COURSE
  - RWP RAINWATER PIPE
  - SCP SURFACE WATER CATCHPIT
  - SL SUMP LEVEL
  - SS STUB STACK
  - SSL STRUCTURAL SLAB LEVEL
  - SVP SOIL VENT PIPE
  - SWD SURFACE WATER DRAIN
  - TD THRESHOLD DRAIN
  - TOP TOP OF FOUNDATION
  - USSL UNDERSIDE OF STRUCTURAL SLAB LEVEL

|     |          |                                                                                                                                      |    |     |     |
|-----|----------|--------------------------------------------------------------------------------------------------------------------------------------|----|-----|-----|
| P4  | 08.04.25 | REVISED TO LATEST SITE LEVELS                                                                                                        | JR | MR  | GO  |
| P3  | 07.02.25 | REVISED TO CV 1.0 AND 500mm FREEBOARD. POND AND TANK SIZE INCREASED. LEVELS RAISED EAST ELEVATION. EXISTING CULVERT DIAMETERS ADDED. | JR | NS  | GO  |
| P2  | 27.11.24 | REVISED TO FEH2022 DATA AND +45% CC. TANK SIZE INCREASED.                                                                            | JR | NS  | GO  |
| P1  | 21.12.21 | STAGE 4 ISSUE - FOR INFORMATION                                                                                                      | JR | NS  | GO  |
| REV | DATE     | DESCRIPTION                                                                                                                          | BY | CHK | APP |

|                                                                                                                                                                                                                         |                                                |              |                    |  |  |
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| <div><div>OCE</div><div>OWENS<br/>CONSULTING<br/>ENGINEERS</div></div> <div>26 Bramley Way, Angmering, Littlehampton, BN16 4GA<br/>01903 774844   enquiries@owens-consulting.co.uk<br/>www.owens-consulting.co.uk</div> |                                                |              |                    |  |  |
| CLIENT OTE HALL FARM                                                                                                                                                                                                    |                                                |              |                    |  |  |
| ARCHITECT CROWTHER ASSOCIATES                                                                                                                                                                                           |                                                |              |                    |  |  |
| JOB TITLE OTE HALL FARM<br>BURGESS HILL<br>WEST SUSSEX                                                                                                                                                                  |                                                |              |                    |  |  |
| DRAWING TITLE SITE DRAINAGE                                                                                                                                                                                             |                                                |              |                    |  |  |
| JOB No.                                                                                                                                                                                                                 | SCALE 1:250                                    |              | DATE DECEMBER 2021 |  |  |
| DRAWN J.R.                                                                                                                                                                                                              | ENGINEER J. ROBERTS                            | CHECKED M.R. | APP G.O.           |  |  |
| STATUS S2                                                                                                                                                                                                               | DRAWING SURVIVABILITY SUITABLE FOR INFORMATION |              |                    |  |  |
| REVISION P4                                                                                                                                                                                                             | RISK STATUS STAGE 4 – TECHNICAL DESIGN         |              |                    |  |  |
| DRAWING No. 202103-OC-Z1-00-PL-C-1101A                                                                                                                                                                                  |                                                |              |                    |  |  |