Pool drainage outfall connection to be designed by pool specialist

RE

RWP

150Ø 33.9m @1:150

FIC.01
CL. 30.45
IL. 29.70

Pool Plant

FFL = 30.450

Further coordination with design team required to ascertain invert level of foul stack associated with pool facilities. Layout shown indicatively. A pump may be required.

150Ø 20m@1:150

SIC.01A
CL. 31.05
IL. 30.65

Civil Engineer and Landscape Architect to coordinate and tie in levels to existing ground within this area. Note local chambers depth and type may change.

Drainage associated with the swimming pool edges shown indicatively and is to be designed by pool specialist

150Ø 37.3m@1:150

SIC.01
CL. 31.00
IL. 29.750

Inspection chamber to have reduced orifice to allow some storm water attenuation within the freeboard depth of the Dew Pond.

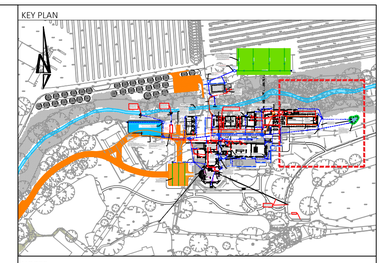
Dew Pond to U&H detail.
Inlet and outlet headwall arrangement to be natural stone arrangement concealing pipes. Pipe levels to be installed at higher level to allow water depth with free board to accommodate storm water attenuation. Base to be compacted gravels and subsoil lined with Bentotex GCL 100 Geosynthetic Clay liner. Shape and depth to be confirmed

LDC

KEY:

- EXISTING STORM WATER DRAIN (PRIVATE)
- EXISTING FOUL WATER DRAIN (PRIVATE)
- EXISTING DRAIN TO BE ABANDONED/ GRUBBED UP
- STORM WATER MANHOLE (1200/1350/1500Ø PCC)
- STORM WATER INSPECTION CHAMBER (PPIC 450Ø / 600Ø)
- STORM WATER INSPECTION CHAMBER (PPIC 300Ø)
- P — STORM WATER PUMP
- LDC — LINEAR DRAINAGE CHANNEL (WIDE/SLOT/MATERIAL TBC)
- RISING MAIN - PUMPED STORM WATER
- RWP — RAIN WATER DOWN PIPE (ROOF CATCHMENT AREA)
- G — INTERNAL STORM WATER GULLY
- PERMEABLE DRAINAGE SYSTEM WITH CARRIER DRAIN TO STORM WATER DRAINAGE SYSTEM. TO CONTAIN TYPE 3 SUB-BASE APPROX. 350MM DEPTH TO UTILISE AS STORM WATER ATTENUATION.
- FREE DRAINING PERMEABLE DRAINAGE SYSTEM TO CONTAIN TYPE 3 SUB-BASE APPROX. 350MM DEPTH TO UTILISE AS STORM WATER ATTENUATION.
- FILTER DRAIN FOR PAVING SURFACE WATER OVERFLOW. TYPE 3 SUB-BASE TO DFT 1998 (BS 7533) WITH MINIMUM 30% VOID CONTENT AND PERFORATED PIPE.
- HEADWALL (AN ALLOWANCE FOR BUILT IN SITU WITH GUARD RAIL)
- PERMEABLE ASPHALT SURFACE. TARMAC ULTIPOROUS TENNIS ASPHALT SURFACE OR SIMILAR PRODUCT. PITCH TO HAVE TYPE 3 SUB-BASE WITH MINIMUM 30% VOID CONTENT IN ACCORDANCE WITH DFT 1998 (BS 7533) TO ACT AS ATTENUATION.
- WATERCOURSE / BROOK
- BASEMENT LAYOUT
- FOUL WATER MANHOLE (1200Ø PCC)
- FOUL WATER INSPECTION CHAMBER (PPIC 450Ø)
- FOUL WATER INSPECTION CHAMBER (PPIC 300Ø)
- P — FOUL WATER PUMP
- FD — FLOOR DRAIN (TRAPPED)
- 01 — SOIL STACK TO BELOW GROUND.
- RISING MAIN - PUMPED STORM WATER
- FOUL WATER FOR POOL BACKWASH. TO BE COLLATED SEPARATELY AND HELD IN CHLORINE SEPARATION TANK. CONTENTS TO BE EMPTIED BY VACUUM TRUCK AND DEPOSITED AT A LICENSED SITE. THIS FOUL WATER IS NOT TO ENTER THE TREATMENT PLANT OR DISCHARGE IN TO THE WATERCOURSE.
- ABOVE GROUND CAST IRON DUCT FOR FOUL WATER. FURTHER COORDINATION NEEDED WITH M&E ENGINEER AND STRUCTURAL ENGINEER FOR FIXINGS TO EXISTING BRIDGE
- BIO-RETENTION AREAS. RWPS TO DRAIN TO SUBGRADE MEDIUM WRAPPED IN GEOMEMBRANE WITH FILTER DRAIN CONNECTED TO STORM NETWORK

KEY PLAN



NOTES

1. All dimensions are to be checked on site before the commencement of works. Any discrepancies are to be reported to the Architect & Engineer for verification. Figured dimensions only are to be taken from this drawing.
2. The DWG file is issued for the purposes of coordination only and do not represent formal drawing issue and are not to be reprinted in any form. Formal issue of drawings is via DWF, Adobe PDF files and/or hard copies and their associated information issue sheets.
3. Note that all care has been taken with the export of DWG files and their content, but we recommend that you make due dimensional checks before using any DWG file information. Any errors found are to be reported to Hydrock immediately.
4. Levels shown in metres above Ordnance Datum (mAOD).
5. All private drainage to comply with current Building Regulations, BS EN-752 Drain and Sewer systems outside Buildings and other relevant British Standards and Codes of Practices.
6. All external drainage within trafficked areas with less than 1.2m cover to have type Z concrete bed and surround. All external drainage within landscaped areas with cover less than 0.6m to have type Z concrete bed and surround. All drainage with greater cover than the minimum required to have type S bed and surround.
7. All drainage to be laid soffit to soffit unless otherwise shown.
8. The Contractor is to verify the line, level and diameter of existing sewers before commencing drainage works.
9. All foul drainage to be minimum 100mm diameter, all surface water drainage to be minimum 150mm diameter unless otherwise shown.
10. Cover levels shown on this drawing refer to approximate surface levels. It is the contractors responsibility to ensure that access covers and frames are set at the final surface levels.
11. Where possible the contractor is to orientate manhole biscuits and covers to locate them parallel to kerbs and paving.
12. The Contractor should comply with hs(g) 47 "Avoiding Danger from Underground Services" when excavating around existing services.
13. It is the contractors responsibility to determine the location and depth of all existing services, mains and cables prior to construction.
14. Contractor to provide temporary screens in each of the down stream manholes during the construction period of the development in accordance with SFA 2.9.10 and the local sewerage undertakers requirements.
15. All in-situ concrete and precast concrete components to be manufactured using Sulphate Resisting Portland Cement, (SRPC) to BS 4027, if required, subject to soil conditions. Manhole components to be to BS EN 1917:2002.
16. All ironwork to be kite marked by BSI or certified by equal inspection authority.
17. All redundant connections to be capped off and grouted from the down stream manhole.
18. All new drainage pipes to be jetted, CCTV surveyed with DVD recording and any defects highlighted to the supervising officer. Following the rectification of any defects, the drain is to be re-surveyed with CCTV and the recordings made available to the project manager/engineer.
19. Prior to commencing the works the contractor is to confirm details of the existing drainage system as noted on the drawing.
20. Prior to commencing the works the contractor is to undertake the drainage investigation work as noted on the drawing.
21. Cover levels of all drainage shown indicatively. Contractor to ensure cover levels are in accordance with proposed surface level plans.

REVISIONS

Rev.	Revision Notes	Date	Drawn By	Checked | Approved
P04	Landscape Plan updated	15.03.24	GJ	GJ | DB
P03	Dew Pond added viewports repositioned	21.02.24	GJ	RH | RH
P02	Updated with comments from Architect 25.01.2024	07.02.24	RS	GJ | GJ
P01	Preliminary Issue	19.12.23	GJ	RS | RS

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CLIENT

RICHARD PARR ASSOCIATES

PROJECT

WEST BRADLEY HOUSE
GLASTONBURY

TITLE

DRAINAGE LAYOUT
SHEET 1

HYDROCK PROJECT NO.	SCALE @ A1
28421	1:100

STATUS DESCRIPTION	STATUS
SUITABLE FOR INFORMATION	S2

DRAWING NO.	REVISION
28421-HYD-XX-XX-DR-C-7001	P04