



SCALE 1:200

Key of Proposed Drainage Network

Site Boundary
 Site Boundary

Existing Features
 Existing Filter Strip
 Existing Swale

Surface Water
 Surface Water Sewer
 Surface Water Access Chamber
 Surface Water Catch Pit
 Surface Water Flow Control Access Chamber
 Surface Water Chamber With Fire Water Shut Off Valve
 Surface Water Filter Drain
 Surface Water Linear Collector (ACO Channel Drain or Similar Approved)
 Surface Water Combine Kerb Drainage Channel (ACO Kerb Drain or Similar Approved)
 Surface Water Road Gully With Gully Lead
 Rain Water Pipe
 Threshold Drain - ACO M1000 unless noted otherwise
 Surface Water Headwall
 Attenuation Storage Tanks (Alderburgh Pluvial Cube Cellular Storage or Similar Approved)

Bioretention Systems
 Bioretention Systems

Permeable sub-base (30% voids)
 Permeable sub-base (30% voids)

Pervious Pavement (permeable paving blocks)
 Pervious Pavement (permeable paving blocks)

Detention Basin
 Detention Basin

Pond
 Pond

Petrol/Oil Interceptor
 Petrol/Oil Interceptor

Rainwater Harvesting
 RWH Sewer
 RWH Access Chamber
 RWH Headwall
 RWH Tank

Foul Water
 Foul Water Sewer
 Foul Water Access Chamber
 Waste Water Treatment Works (WWTW)

Combined Water
 Combined Water Sewer
 Combined Access Chamber

EXTRACT FROM ORDNANCE SURVEY.
 REPRODUCED FROM THE ORDNANCE SURVEY MAPPING WITH THE PERMISSION OF THE CONTROLLER OF HER MAJESTY'S STATIONERY OFFICE.
 © CROWN COPYRIGHT.
 UNAUTHORISED REPRODUCTION INFRINGES CROWN COPYRIGHT AND MAY LEAD TO PROSECUTION OR CIVIL PROCEEDINGS.
 PEMBROKESHIRE C.C. LOCAL AUTHORITY LICENCE No. LA 100023344

- Notes:**
- General:**
- All dimensions and levels are in metres.
 - Do not scale from this drawing. Use figured dimensions only.
 - All existing assets to be protected during construction.
 - SuDS maintenance regime to be implemented in accordance with the recommendations in the SuDS Manual (CIRIA C753) and manufacturers instructions.
 - Backfill requirements to specification for highway works MCHW Vol. 1.
 - Pervious pavements designed to a CBR value of 2.5%. Contractor to proof roll subgrade prior to construction, any identified soft spots are to be excavated and replaced with compacted Type 1 granular material to MCHW Vol. 1 Cl. 803.
- Concrete:**
- Blinding and infill concrete to be grade ST2 to BS 8500.
 - Mass concrete surround to pipes, access chambers, gullies and kerbs etc. to be grade ST4 to BS 8500.
 - Concrete to benching to be formed with a rough key to receive a 20mm thick granolithic render trowelled hard with a steel trowel to provide a dense, durable smooth surface.
 - Buried concrete AC-2 and DS-2.
- Granular Material:**
- Type 1 granular material to MCHW Vol.1 Cl. 803.
 - 4/20 clean open graded stone to BS EN 1242:2000.
 - 6F2 material to Table 6.1 of MCHW Vol.1 Series 600.
- Pipework:**
- All pipework & fittings to be OSMA drain or OSMA ultra rib, or similar approved.
 - The length of pipework between access covers to include for any short length pipes as necessary to achieve the configuration of rocker pipes and standard short length pipes at fixed access chamber positions.
 - All pipework built into access chambers to be either standard short lengths or cut lengths as appropriate.
 - Rocker pipes to be a maximum of 600mm long.
 - All 'y' connections to be formed utilising proprietary junction sections.
- Brickwork:**
- Where required, brickwork to access chambers and gullies to be Class B engineering brickwork to BS 771 laid in English bond 225mm thick with Class M6 (Class 2) mortar, flush pointed.
- Access Covers and Gratings:**
- All access covers in trafficked areas to be non-rocking type, single sealed, locking and load class D400.
 - All access covers in non-trafficked areas to be non-rocking type, single sealed, locking and load class B125.
 - All internal foul access covers are to be pre-fabricated type, hung from suspended floor slab.

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

IN ADDITION TO THE HAZARDOUS RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING:

Location of the existing statutory services on this drawing have been interpreted from information received from the statutory providers. The site team should anticipate additional services such as street lighting and associated cabling, overhead telecons or power and storm water sewers (not shown on DCWW plans). The utilities are shown diagrammatically on this drawing and are not definitive. Location of utilities should be confirmed on site prior to construction.

- Working in or near a watercourse
- Working in or near a highway

For further details on risks refer to the designers risk assessments

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT

Rev	Drawn	Checked	Approved	Description	Date
C03	AC	JC	SM	Drainage amended to suit Welsh Water Diversion.	14/06/2023
C02	SL	SM	BW	Drainage amended to suit updated level information.	16/02/2023
C01	SL	SM	BW	Construction Issue	08/02/2023
T01	JH	PM	KF	Issued for Tender	27/06/2022
P04	SG	PM	KF	Issued for Information	20/05/2022
P03	SG	PM	KF	Issued for Information	20/04/2022
P02	SG	PM	KF	Issued for Information	14/03/2022
P01	SG	PM	KF	First Issue	02/02/2022

Purpose of Issue
A - Suitable for Construction

Classification
Confidential

Client

Pembrokeshire County Council
Eco Park

Project
Drainage Layout
Surface and Foul Water Sewers
Sheet 3 of 7

Scale @ A1	Drawn	Checked	Approved
1:200	SG	PM	KF

Project No.	Date
CS/101992	19-OCT-21

Project - Originator - Zone - Level - File Type - File - Number	Revision
PECO-CAP-PW-XX-DR-D-000504	C03

Quest House, St Mellons Business Park, Fortran Road,
 St Mellons, Cardiff, CF3 0EY, UK
 wsp.com

