



Key of Proposed Drainage Network

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

- Permeable sub-base (30% voids)
- Pervious Pavement (permeable paving blocks)
- Detention Basin
- Pond
- 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.

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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.
- Burfed 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 13242:2000.
- 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 VV 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 HAZARDS/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 telecoms 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

C07	SL	SM	SM	ACO drain in Phase 3 amended from 300mm to 200mm	21/12/2023
C06	TAL	SM	SM	Drainage amended	11/12/2023
C05	AC	JC	SM	Bioretention areas updated	28/07/2023
C04	AC	JC	SM	Manhole reference and diversion valve note amended	26/06/2023
C03	AC	JC	SM	Drainage amended to suit Welsh Water Diversion	14/05/2023
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

Rev	Drawn	Checked	App'd	Description	Date

Purpose of Issue

A - Suitable for Construction

Classification

Confidential

Client

Project

Pembrokeshire County Council

Eco Park

Drawing

Drainage Layout

Surface and Foul Water Sewers

Sheet 5 of 7

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

Project No.

CS/101992

Date

19-OCT-21

Drawing Identifier

Project - Originator - Zone - Level - File Type - Role - Number

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BS1192 Compliant

revision

C07

wsp

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