

Drainage Legend

Existing Private SW Sewer (& Manhole)

Existing Private FW Sewer (& Manhole)

Existing Public SW Sewer (& Manhole)

Existing Public FW Sewer (& Manhole)

Public Sewer Easement Zone

Proposed SW Sewer (& Manhole)

Proposed FW Sewer (& Manhole)

RG 4500 Trapped Road Gully

RE Rodding Eye (Refer to plan for invert level)

(R) Rainwater Collection Pipe

(R)* Rainwater collection Pipe (with Access)

SU Drainage Channel (with Sump Unit)

(S) Soil & Vent Pipe / Stub Stack

YG Square Trapped Yard Gully + Shallow Bucket

Pipeline with Concrete Surround

Perforated Distributor / Collection Pipe

Pipeline to be Removed / Abandoned

Permeable Block Paving, 80mm - Type-C

Concrete Surface Over Permeable Sub-base

Localised Trench Within Permeable Sub-Base

Site Boundary Line

Refer to architects / M&E drawings for exact positions of internal connections and RWPS.

The diagram is a detailed site plan for a proposed drainage system. It shows a network of sewer lines, including existing public and private sewers, and proposed new lines. Key features include:

- Manholes and Catchpits:** Labeled with codes like SWMH-01 to SWMH-12, FWIC-01 to FWIC-07, and FWIC-08. Each includes its chainage (CL) and invert level (IL).
- Pipes:** Various sizes and materials are specified, such as 2250 Perforated Pipe, 3000 Perforated Pipe, and 1500 @ 1:100.
- Easement Zones:** Shaded areas indicating public sewer easement zones, with notes on their widths (e.g., 3.0m).
- Materials and Construction:** Notes specify materials like Permeable Block Paving, Type-C System, and Impermeable Concrete Surface.
- Notes:** Numerous annotations provide specific instructions, such as "Note: FW Connection into the existing 5250 public foul water sewer to be made as an indirect connection via the existing on-site foul water chamber reusing the existing lateral connection".
- Scale and Orientation:** A scale bar at the bottom left indicates 0m to 15m (Scale = 1:200). A north arrow is also present.

Notes:

1. This drawing is to be read in conjunction with all of the relevant architects, engineers and specialist sub-contractor drawings and specifications.

2. Any discrepancies between the engineers and the architects drawings to be referred to the architect before proceeding. Drawings must not be scaled.

3. All private drainage is to be in accordance with BS EN 752-1-2-3-4, BS EN 1295-1, BS EN 1610 and all relevant sections of approved document H of the building regulations (2015 Edition).

4. All adoptable drainage is to be in accordance with 'Design and construction guidelines for foul & surface water sewers offered for adoption', where appropriate.

5. All adopted foul drainage to be laid with a minimum of 1.2m cover depth to soffit. Unless specifically identified otherwise with relevant protective measures.

6. Pipework Type - Flexibly jointed extra strength vitrified clay, to BS EN 295-1, Hepworth 'Supersleve' or equivalent.

7. Pipework Type - Plastic i.e. PVC-U, to BS EN 1401-1 Osma or equivalent. (Private pipework to be type SN4 and all adoptable pipework to be type SN8).

8. Precast concrete manholes and fittings shall be to BS 5911 parts 3 and 4 and BS EN 1917.

9. Whenever pipework passes through foundations, walls or connects to manholes, flexible pipe joints are to be provided within 150mm of the face of the structure. 600mm pipe length to then be used to form a rocker pipe.

10. Whenever pipework passes through screen walls, footings or retaining walls, lintels are to be provided.

11. Where pipelines pass within 1.0m of buildings or walls the foundations are to be taken down below the bottom of the trench. Where pipelines are more than 1.0m away from foundations the trench shall be backfilled with concrete up to a point that meets a 45° angle line taken from the bottom corner of the nearest foundation.

12. The contractors attention is drawn to the need to ensure that any trenches excavated through previously compacted or filled areas, in particular under the building footprint and immediately around the outside, are re-compacted to ensure that localised differential settlement does not occur.

13. Where pipelines cross with less than 300mm of clearance, each is to be surrounded with grade ST4 mass concrete for a distance not less than 1.0m centered on the crossing point. The length of surround should be extended as necessary to within 150mm of the next nearest flexible joints.

14. For private drainage, concrete protection is to be provided where the effective cover to the crown of the pipe(s) is less than 1.2m in trafficked areas and 0.6m in soft landscaped or pedestrianised areas. (Applies during and after construction).

15. The contractor is to ensure that suitable protective measures are taken to ensure that the drainage pipework and fittings are not damaged by site traffic prior to any over-site filling operations being completed.

16. Chamber annotation references are as follows:
AC - Denotes a polypropylene or vitrified clay access chamber, depth not exceeding 600mm, diameter not exceeding 300mm.
IC - Denotes a polypropylene inspection chamber, depth not exceeding 3.0m, diameter not exceeding 600mm. Standard diameter 450mm, unless specified otherwise.
MH - Denotes a manholes constructed from either brick or P.C.C. sections. Chamber depth to be in excess of 1.2m, unless specified otherwise.

17. The top run of each private foul drainage network is to be laid to falls no slacker than 1:40. the head of each run is to be vented to atmosphere in accordance with approved document H.

18. All foul and surface water drainage pipelines are to be 100mm dia min and laid at a gradient no slacker than 1:80, unless stated otherwise.

19. The contractor is to ensure that all pipework connections are arranged to direct flows down or into the main channel in the direction of the main flow. Any oblique or perpendicular chamber connections are to be directed into the mainline channel via appropriate benching. All chambers must include a connection via the main channel to ensure that a flush through is achieved.

20. The contractor is to ensure that when preformed polypropylene manhole bases are used, they are orientated such that the main flow is directed through the main channel of the base. This should be achieved by using long radius bends outside of the manhole when necessary.

21. Where new connections are to be made into existing manholes or sewers, all invert levels, pipe orientation and sizes should be checked on-site prior to the commencement of the works, with any variance reported to the engineer once identified. Where new connections are to be made either on or off-site, the contractor is to check the line and level of any existing services / mains, to ensure that no clashes exist prior to the works commencing.

22. Any and all new connections into a public sewer are to be inspected by the local water authority and carried out fully in accordance with their requirements. The contractor is to allow for obtaining the appropriate 'Section Applications' as well as paying all necessary fees.

23. Drainage channel(s) to be 'Aco S100' or equivalent. For installation guidance refer to the manufacturer's specification. Refer to landscape architects details for surface treatments around units where applicable. All drainage channels are to be constructed with in-built falls where possible. Relevant units are to be incorporated to provide the necessary length of channel gradient from the head of the run to the sump unit.

24. Permeable paving surface finish 'to the architects spec'. Any alteration to the extents of the permeable paving may have an adverse affect upon the Surface water drainage design and must therefore be discussed with the engineer

A 10.10.25 Drawn - Issued Detailed Design

Rev. Date Description

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Client

Faircloth Construction Ltd.

Project Title

Royal Mail Delivery Office, Salisbury

Drawing Title

Proposed Drainage Layout Plan

Drawing Status

Detailed Design

Originator No.

115154

Rev by

GEB

MD

MD

Scale

1:200 @A1

PROJECT | ORIGINATOR | ZONE | LEVEL | TYPE | ROLE | NO.

115154-CAL-XX-XX-DR-D-0005

Revision

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