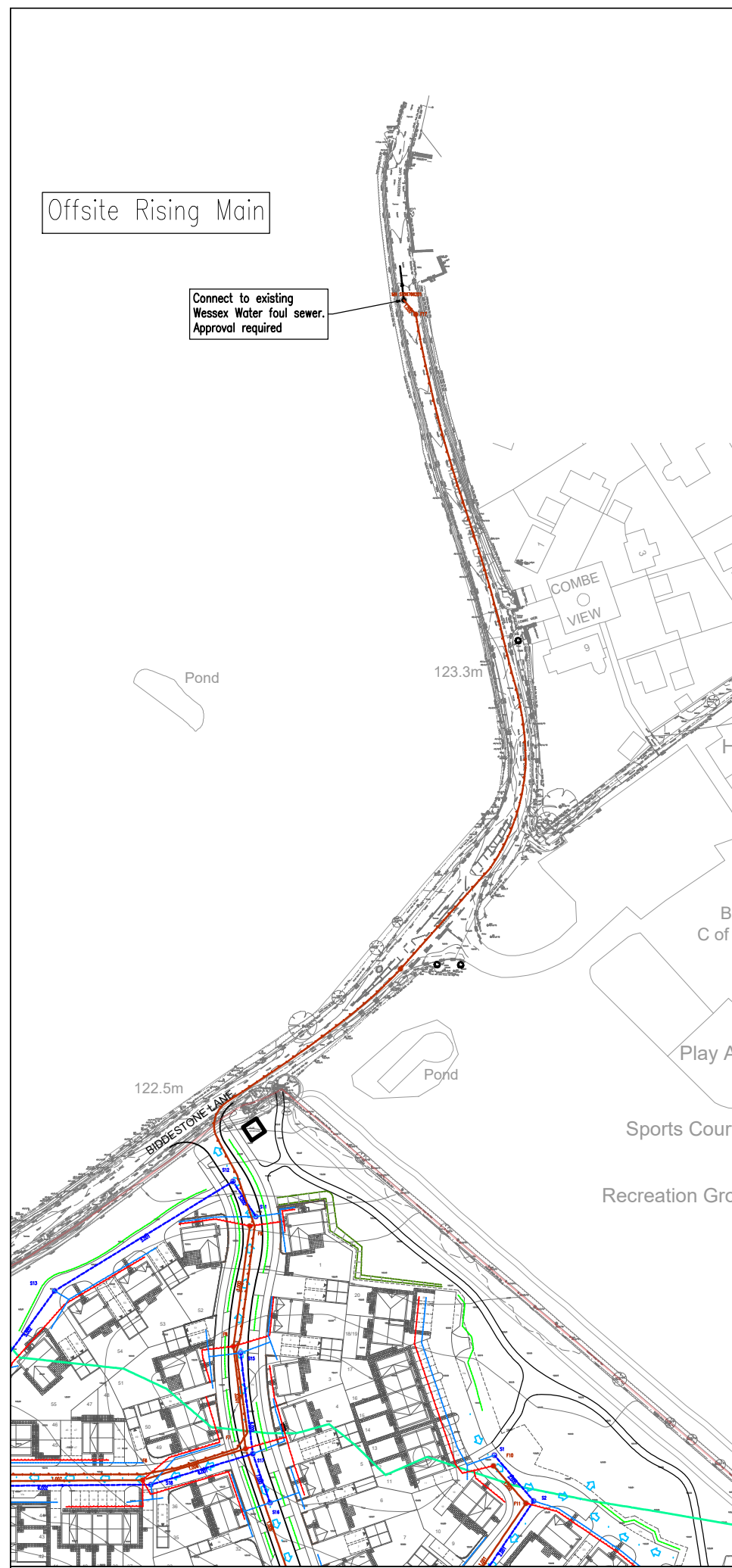




Pumping Station.
Pump rate approx 2.5l/s
(based on 55 houses)
To be accessed from public highway.
No Dwellings to be located within
15m of pump chamber

Attenuation Pond 1
Greenfield Catchment 15812m²
Greenfield runoff rate QBar (@4.1l/s/ha) 6.5l/s
Greenfield runoff rate 1 year (@3.2l/s/ha) + 30% Betterment 3.6l/s
Permanent Water Level 120.95m
Minimum Bank Level 122.25m
Maximum Water Level 121.95m
Maximum Water Volume (1 in 100 YRP +45% CC) 864m³
Side Slopes 1 in 3
Cut Volume 975m³
Fill Volume 513m³
Area 2089m²

Maximum Flood Extent
at 121.95m AOD

Surface water outfall
to existing ditch

Flood compensation area
Volume 4270m³ up to flood
level of 121.95m AOD

Swale,
1m wide base,
1 in 4 side slopes,
Minimum Bank Level 122.25m
Minimum Depth 0.7m

Drainage Strategy Key

- Site Boundary
- Surface Water Catchment boundary
- Proposed Foul Sewer
- Proposed Foul Rising Main
- Proposed Surface Water Sewer
- Filter Trench
- Proposed Private Foul Drainage
- Proposed Private Surface Water Drainage
- Overland Flow Route

- Grass Maintenance Strip (minimum 3.0m wide)
- Bank Slope from 1 in 3
- 3m Aquatic Bench @ 1:15 (0-0.2m deep)
- Permanent Water (max 1.0m deep, 1:3 slopes)

Note

The proposed Drainage System shown is indicative and is subject to the development of the Masterplan for the site and also the detailed design in accordance with the appropriate standards and approval from the relevant authorities.

To provide water quality benefits and source control the use of the following features may be considered;
Swales,
Rain Gardens,
Filter Drains,
Filter Strips,
Permeable Paving,
Water butts,
Conveyance ditches.

Flows from the development will be restricted to Qbar for all events up to and including the 100 year with a 45% allowance for climate change

All outfalls to watercourses are to be fitted with suitable controls to prevent flood waters flowing back in to the proposed drainage systems.

Maximum water level is for the 100 year + 45% climate change

Survey of existing foul sewers required to confirm location and depths.

B 02.10.2025 Revised layout, Overland Flow Routes added
A 04.04.2025 Compensation Area increased

Revision

Project: **Yatton Keynell**

Client: **CH COTSWOLD**

Drawing: **Drainage Strategy**

Scale: 1:500 @ A1 Date: March 2025 Drawn by: JP

Drawing No: **617-P-050** Rev: B

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Drg Status: **PLANNING**