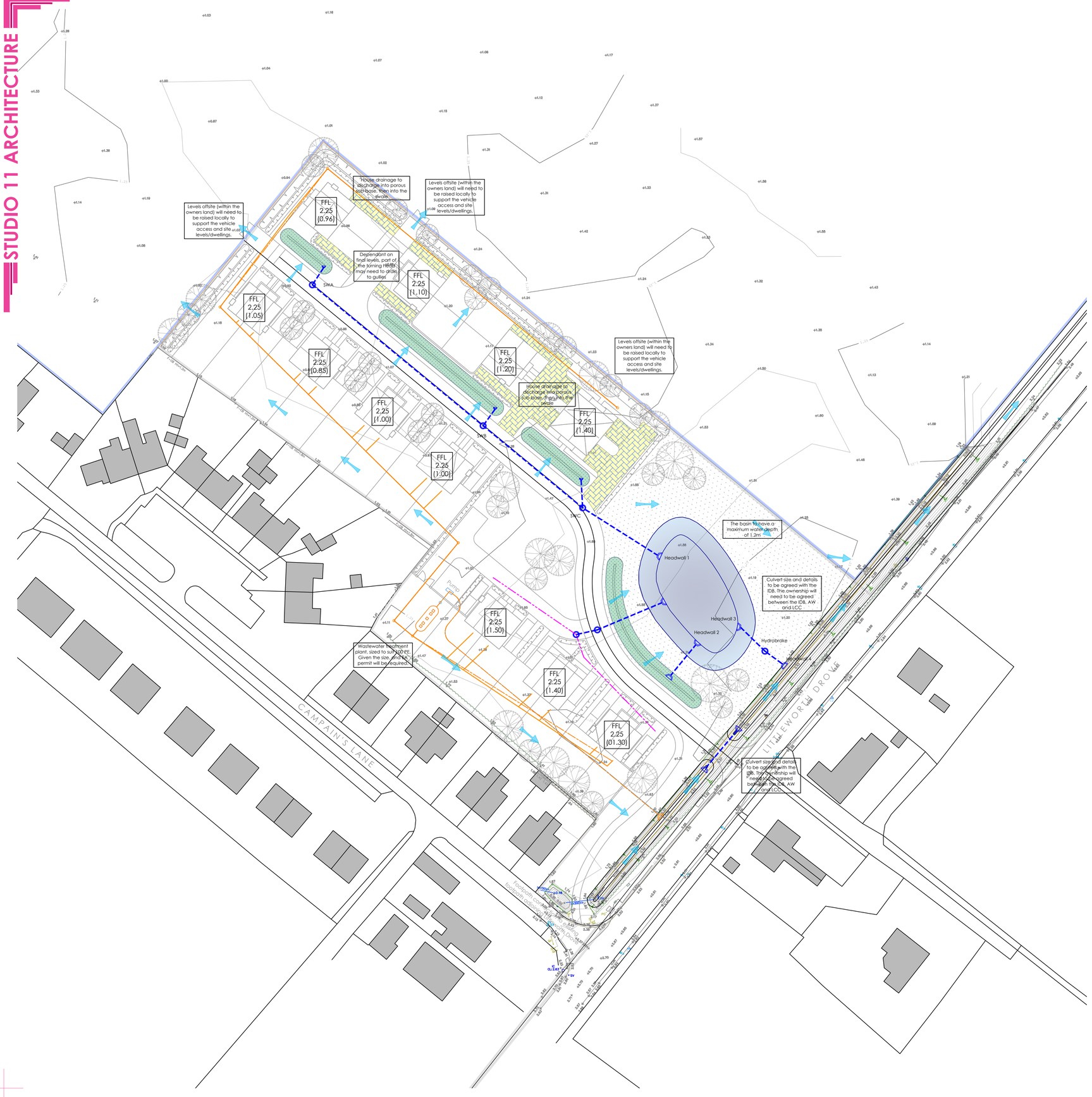
STUDIO 11 ARCHITECTURE



Drainage Key

- Proposed adoptable surface drainage
- Proposed private surface sewer, showing intent only
- Proposed adoptable foul drainage
- Proposed private foul sewer, showing intent only
- Existing Anglian Water foul

Adoptable Swale

The main method of drainage the highways the water will pass through a topsoil strip, then porous stone and then finally to a carrier pipe. This system provides both attenuation and water quality.

The final adoption of this item is subject to discussion with LCC and AW, and the swale will be adopted by either 1 or both.

Attenuation Basin

The main method of attenuation, restricting the run-off rates is via. a Hydrobrake which slows the flow and is stored within this basin.

It is intended that this basins will be online, and as the site is generally design in accordance with a SuDS treatment train it will be adopted by Anglian Water - to be determined at the detailed design phase.

Main surface flow routes

This is a preliminary drainage strategy only. Final detailed design is subject to Anglian Water specific requirements and proposed level strategy.
All drainage is subject to relevant permissions and confirmation of connection depths.

All storms up to and including the 1 in 100 year + 40% climate change event have been designed to be contained on-site within pipework, manholes, tanked porous paving, flood routing or within the dry basin. Preliminary modeling shows some flooding in the 100 year + 40% climate change event - at detailed design this will be eliminated as the swale storage will be modelled.

Finished Floor Levels to be set at a minimum level of 300mm above ground levels in accordance with the FRA. The FFL's shown on this drawing are preliminary only, and subject to detailed design.

The discharge from site has been determined as 1.2l/s (Q_{BAR}) - calculated in full accordance with the HR Wallingford's greenfield run-off calculator and guidance. The rate will need to be agreed with the Lead Local Flood Authority. The developer must still apply to the IDB for consent to undertake the works/discharge, and obtain any landowner consent.

Refer to drainage statement for additional details on the drainage strategy.

As the surface water needs to be pumped, the rate may need to increase to suit operating requirements - this is subject to detail discussion with AW, LLFA and the IDB.

Do not scale directly from this drawing. All discrepancies are to be brought to the attention of the below office.

The copyright to this drawing is owned by studio 11 architecture.

The General Contractor is to check all dimensions on site and report discrepancies to the designer.

The details and information shown hereon relating to existing underground drains, main services, cables, etc. and existing structural details, are as obtained by normal survey observation method. Although all reasonable effort has been made, no guarantee can be made or given for the completeness or accuracy of this information.

Note:

1. All drawings to be read in conjunction with Structural Engineers Drawings.
2. All dimensions are in metres unless noted otherwise, drainage pipes are specified in millimetres.
3. Private drainage to be constructed in accordance with building regulations part H.
4. Adoptable Drainage to be constructed in accordance with Sewers for Adoption 6th addition, and any relevant addendums.
5. Drawings to be read in conjunction with all other relevant details.
6. Setting out to be in accordance with the Architectural plans.
7. All proprietary items to be installed in strict accordance with the manufacturers instructions and recommendations.
8. All works to be carried out in accordance wit the current British Standards, Codes for practice and Building Regulations.
9. The site is designed to ensure that all storms up to and including 100 year + 40% climate change event are managed within the site.
10. Manhole covers are to be D400 in adoptable areas and the main access way, C250 for shared parking areas, B125 for private domestic car parking and A15 for soft landscaped and non-vehicle areas.
11. Foul water connection to the Anglian Water Sewer to be agreed.
12. Position and depth of both the existing Anglian Water foul sewer and the existing surface water ditch to be confirmed prior to construction. Design is not valid until these items have been confirmed and the engineer has ratified the design.
13. All drainage located within the adoptable highway to have a minimum of 1.2m cover, if not the pipe will require additional protection measures. It is the contractors responsibility to ensure adequate depth/protection is provided.
14. For Private drainage drainage, the pipework needs concrete pipe protection if the following depths to soffit cannot be achieved:
    - 14.1. For PVC - 0.9m in vehicular areas or 0.6m in soft landscaping.
    - 14.2. For clayware or concrete - 1.2m in vehicular areas or 0.6m in soft landscaping.

NB. Refer to building regulations part H for further guidance.

15. Building construction to be in accordance with the FRA.
16. Prior to commencement of construction, the developer will need to obtain discharge consent from the IDB for surface water and AW for the foul water.
17. It is the developers responsibility to ensure that third party rights of connection into the ditch have been consented.

REVISION	DATE	DRAWN	DESCRIPTION

STUDIO11 architecture

THE BOATHOUSE, HARBOUR SQUARE,
NENE PARADE, WISBECH,
CAMBRIDGESHIRE, PE13 3BH

T: 01945 467339
E: design@studio11architecture.co.uk
W: www.studio11architecture.co.uk

CLIENT	W D Branton
PROJECT	Proposed New Rural Exception site of Affordable Housing on Land off Littleworth Drove, Deeping St Nicholas
DRAWING	Drainage Stratgey

DRAWN	PROJECT DESIGNER	PROJECT DIRECTOR
S11	EG	KB
DATE	**SCALE**	**PAPER SIZE**
18.11.2024	1:500	A1

DRAWING NUMBER
615-S11-00-SI-SK-C-9000

Working in partnership with **Ralph Charman Associates** & **Eleven Consultants**

INFRASTRUCTURE