

NOTES

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C	Final Issue	05/11/2021
B	Annotations updated	03/11/2021
A	Revised Foul Rising Main Line & Level	25/10/2021
-	Original Issue	20/10/2021

Rev.	Amendments	Date
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Drawing Status **PLANNING**

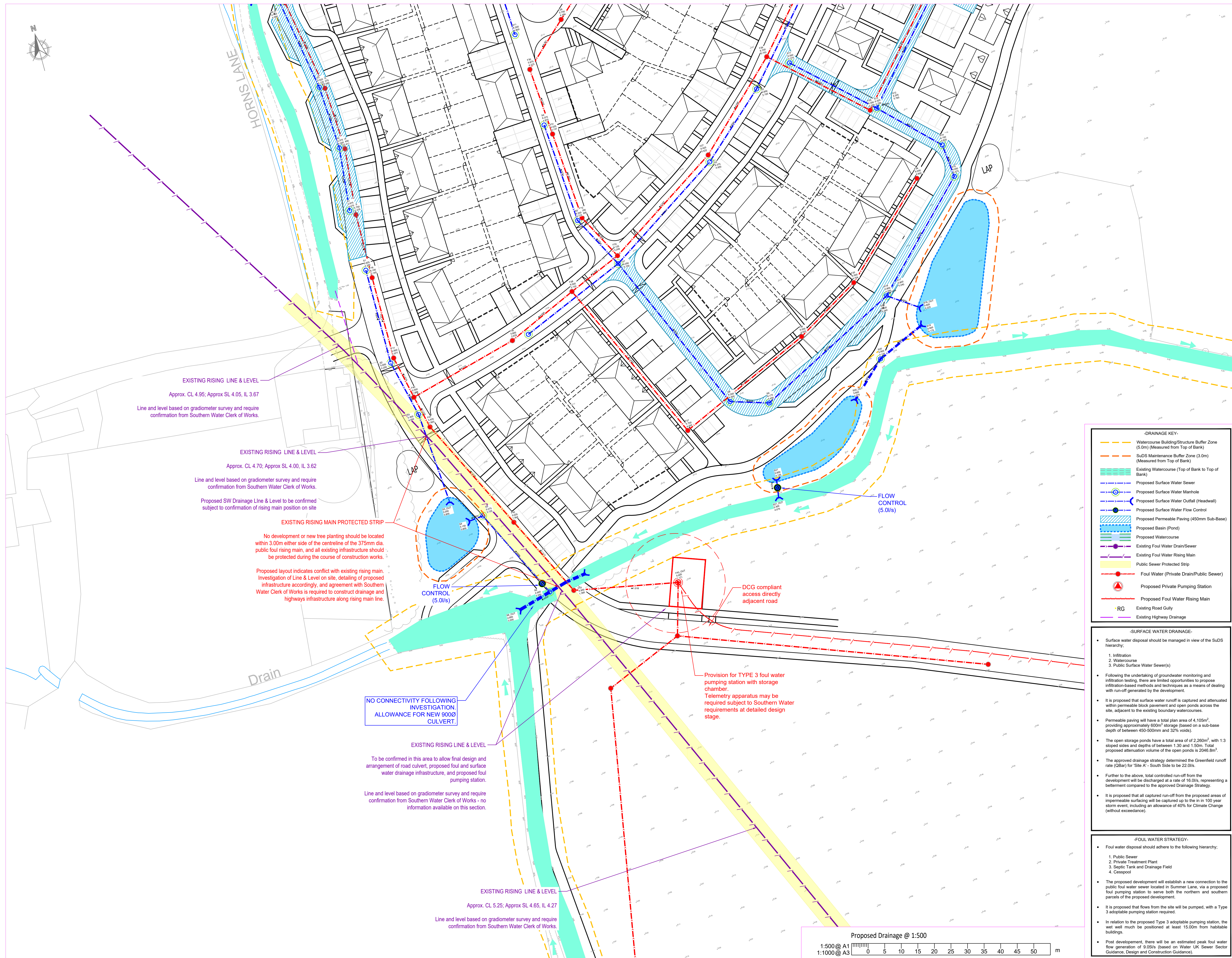
Client **Foreman Homes**

Project **Land at Summer Lane
Pagham, West Sussex**

Drawing Title **Proposed FW & SW Drainage Strategy
(Northern) Sheet 2 of 2**

Scale **1:500** Date **Nov 21** Drawn By **DJL** Checked By **MJA**

Drawing No. **D1915-303** Rev. **C**



-DRAINAGE KEY-

- Watercourse Building/Structure Buffer Zone (5.0m) (Measured from Top of Bank)
- SuDS Maintenance Buffer Zone (3.0m) (Measured from Top of Bank)
- Existing Watercourse (Top of Bank to Top of Bank)
- Proposed Surface Water Sewer
- Proposed Surface Water Manhole
- Proposed Surface Water Outfall (Headwall)
- Proposed Surface Water Flow Control
- Proposed Permeable Paving (450mm Sub-Base)
- Proposed Basin (Pond)
- Proposed Watercourse
- Existing Foul Water Drain/Sewer
- Existing Foul Water Rising Main
- Public Sewer Protected Strip
- Foul Water (Private Drain/Public Sewer)
- Proposed Private Pumping Station
- Proposed Foul Water Rising Main
- Existing Road Gully
- Existing Highway Drainage

-SURFACE WATER DRAINAGE-

- Surface water disposal should be managed in view of the SuDS hierarchy:
 1. Infiltration
 2. Watercourse
 3. Public Surface Water Sewer(s)
- Following the undertaking of groundwater monitoring and infiltration testing, there are limited opportunities to propose infiltration-based methods and techniques as a means of dealing with run-off generated by the development.
- It is proposed that surface water runoff is captured and attenuated within permeable block pavement and open ponds across the site, adjacent to the existing boundary watercourses.
- Permeable paving will have a total plan area of 4,105m², providing approximately 600m³ storage (based on a sub-base depth of between 450-500mm and 32% voids).
- The open storage ponds have a total area of 2,260m², with 1:3 sloped sides and depths of between 1.30 and 1.50m. Total proposed attenuation volume of the open ponds is 2048.8m³.
- The approved drainage strategy determined the Greenfield runoff rate (QBar) for 'Site A' - South Side to be 22.0l/s.
- Further to the above, total controlled run-off from the development will be discharged at a rate of 16.0l/s, representing a betterment compared to the approved Drainage Strategy.
- It is proposed that all captured run-off from the proposed areas of impermeable surfacing will be captured up to the in 100 year storm event, including an allowance of 40% for Climate Change (without exceedance).

-FOUL WATER STRATEGY-

- Foul water disposal should adhere to the following hierarchy:
 1. Public Sewer
 2. Private Treatment Plant
 3. Septic Tank and Drainage Field
 4. Cesspool
- The proposed development will establish a new connection to the public foul water sewer located in Summer Lane, via a proposed foul pumping station to serve both the northern and southern parcels of the proposed development.
- It is proposed that flows from the site will be pumped, with a Type 3 adoptable pumping station required.
- In relation to the proposed Type 3 adoptable pumping station, the wet well must be positioned at least 15.00m from habitable buildings.
- Post development, there will be an estimated peak foul water flow generation of 9.05l/s (based on Water UK Sewer Sector Guidance, Design and Construction Guidance).