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PLANNING

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D	Layout updated	18/11/2021
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**

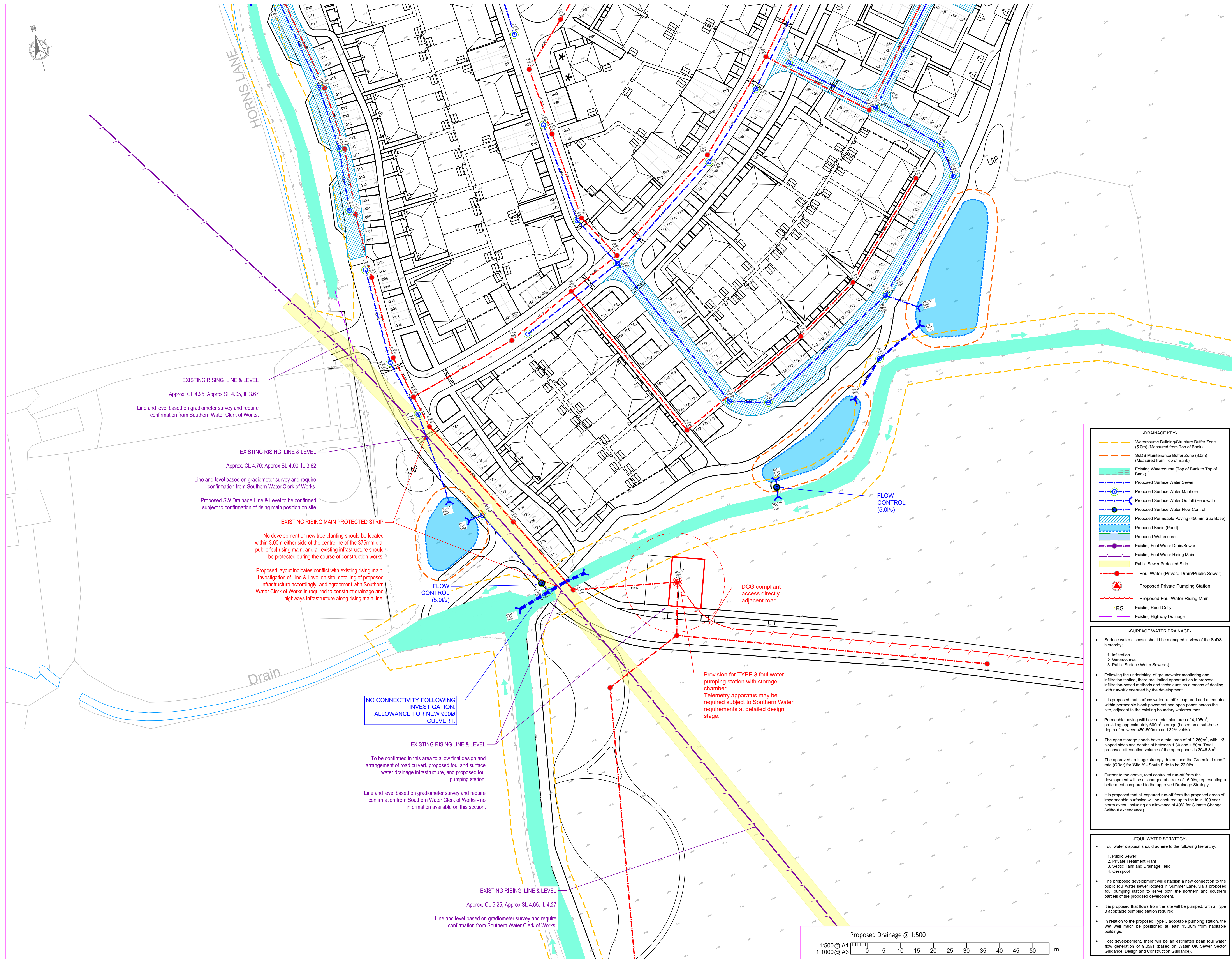
Client **Foreman Homes**

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. **D**



EXISTING RISING LINE & LEVEL

Approx. CL 4.95; Approx SL 4.05, IL 3.67

Line and level based on gradiometer survey and require confirmation from Southern Water Clerk of Works.

EXISTING RISING LINE & LEVEL

Approx. CL 4.70; Approx SL 4.00, IL 3.62

Line and level based on gradiometer survey and require confirmation from Southern Water Clerk of Works.

Proposed SW Drainage Line & Level to be confirmed subject to confirmation of rising main position on site

EXISTING RISING MAIN PROTECTED STRIP

No development or new tree planting should be located within 3.00m either side of the centreline of the 375mm dia. public foul rising main, and all existing infrastructure should be protected during the course of construction works.

Proposed layout indicates conflict with existing rising main. Investigation of Line & Level on site, detailing of proposed infrastructure accordingly, and agreement with Southern Water Clerk of Works is required to construct drainage and highways infrastructure along rising main line.

FLOW CONTROL (5.0l/s)

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DCG compliant access directly adjacent road

Provision for TYPE 3 foul water pumping station with storage chamber. Telemetry apparatus may be required subject to Southern Water requirements at detailed design stage.

NO CONNECTIVITY FOLLOWING INVESTIGATION ALLOWANCE FOR NEW 900mm CULVERT.

EXISTING RISING LINE & LEVEL

To be confirmed in this area to allow final design and arrangement of road culvert, proposed foul and surface water drainage infrastructure, and proposed foul pumping station.

Line and level based on gradiometer survey and require confirmation from Southern Water Clerk of Works - no information available on this section.

EXISTING RISING LINE & LEVEL

Approx. CL 5.25; Approx SL 4.65, IL 4.27

Line and level based on gradiometer survey and require confirmation from Southern Water Clerk of Works.

Proposed Drainage @ 1:500

1:500 @ A1
1:1000 @ A3
0 5 10 15 20 25 30 35 40 45 50 m

-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 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 run-off 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 4,105m ² , providing approximately 600m ³ storage (based on a sub-base depth of between 450-500mm and 32% voids).
•	The open storage ponds have a total area of 2,260m ² , with 1:3 sloped sides and depths of between 1.30 and 1.50m. Total proposed attenuation volume of the open ponds is 2048.8m ³ .
•	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).