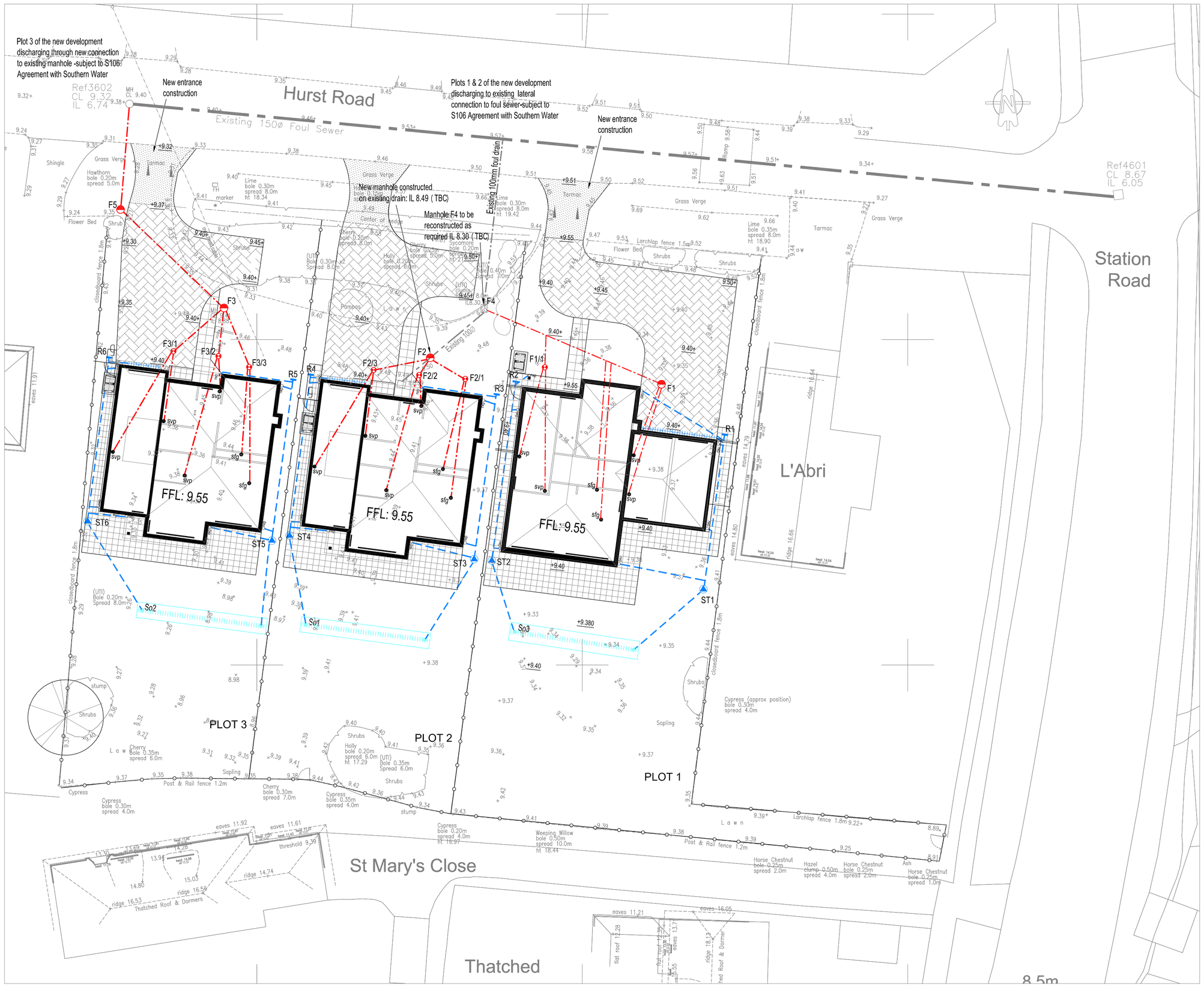

0m 10m 20m 30m
1:200

FOUL DRAINAGE MANHOLE SCHEDULE

REFERENCE	Cover Level (m)	Invert Level (m)	Depth to Soffit (m)	Size (mm)	Type	Cover Grade
F1	9.40	8.700	0.600	450 diameter	3	B125
F2	9.50	8.49 (TBC)	0.910	450 diameter	3	B125
F3	9.45	8.700	0.650	450 diameter	3	B125
F4	9.40	8.700	0.600	Reconstructed as required		B125
F5	9.35	8.500	0.750	450 diameter	3	B125
F1/1	9.40	8.800	0.500	280 diameter	4	B125
F2/1	9.40	8.800	0.500	280 diameter	4	B125
F2/2	9.40	8.800	0.500	280 diameter	4	B125
F2/3	9.40	8.800	0.500	280 diameter	4	B125
F3/1	9.40	8.800	0.500	280 diameter	4	B125
F3/2	9.40	8.800	0.500	280 diameter	4	B125
F3/3	9.40	8.800	0.500	280 diameter	4	B125

SURFACE WATER DRAINAGE MANHOLE SCHEDULE

REFERENCE	Cover Level (m)	Invert Level (m)	Depth to Soffit (m)	Size (mm)	Type	Cover Grade
ST1	9.40	8.780	0.520	450 diameter	5	B125
ST2	9.40	8.760	0.540	450 diameter	5	B125
ST3	9.40	8.770	0.530	450 diameter	5	B125
ST4	9.40	8.770	0.530	450 diameter	5	B125
ST5	9.40	8.770	0.530	450 diameter	5	B125
ST6	9.40	8.770	0.530	450 diameter	5	B125
R1	9.40	8.90	0.40	Rodding Eye		B125
R2	9.40	8.90	0.40	Rodding Eye		B125
R3	9.40	8.90	0.40	Rodding Eye		B125
R4	9.40	8.90	0.40	Rodding Eye		B125
R5	9.40	8.90	0.40	Rodding Eye		B125
R6	9.40	8.90	0.40	Rodding Eye		B125

SOAKAWAY DETAILS-Domestic Trench Soakaway

Soakaway Ref	Area Draining m^2	Width m	Length m	Ground level	Invert level incoming pipe	Soakaway base Invert	Infiltration Zone
So1	149	1.20	10.6	9.40	8.70	7.40	A
So2	149	1.20	10.6	9.40	8.70	7.40	A
So3	167	1.40	10.6	9.35	8.70	7.40	A

Infiltration Zone

Infiltration Zone	Soakage Rate (m/s)	Soakage Rate (m/hr)
A	5.0 E-06	0.01800

Infiltration values from in-situ tests.

Notes:

1. All domestic drainage to be 100Ø U.N.O. Minimum gradient for 100Ø SW is 1:100 and 100Ø FW is 1:80 (at least one wc connected otherwise 1:40) and 150Ø is 1:150. Bedding for domestic drainage Class B. All pipe runs near buildings to comply with the Building Regulations 2002 Part H1.
2. All works to be in accordance with WRC "Sewers for Adoption 7th Edition", the requirements of the Statutory Undertaker, the local Authority and BS8301 1985.
3. The contractor must comply with all current legislation relating to Health and Safety. The contractor/client must familiarise himself with all service companies records of existing plant locations prior to any excavation works. All existing services/sewers to be traced/surveyed. Any indiscrepancies to be reported to the engineer immediately.
4. All concrete and concrete products to be in accordance with BRE 363 for sulphates.
5. Position of soil pipes, standing wastes, wc outlets etc. are shown on the Architect's working drawings.
6. Rainwater downpipe positions are to be checked against architect details to ensure compatibility. Rainwater pipes that pass through the building to have suitable rodding facilities.
7. Where paths falls towards the front door use suitable linear/slot drainage system. To be connected to surface water system.
8. Soakaways to be minimum 5.0m from dwelling foundations and 3.0m from boundary wall foundations. Boundary walls within 3.0m of soakaways to have reinforced foundations. Prior to construction of soakaways trial holes to be dug to the invert of base to establish ground water level. If ground waters are encountered please report level to engineer for a redesign.
9. Surface water drainage connected to catchit manhole prior to discharge to soakaway
10. Foul drainage discharge level must be checked and confirmed to the Engineer prior to any foul drainage works commencing. Engineer must be informed of any discrepency.
11. All plots to have gardens sloping away from properties otherwise interceptor drains to be installed.
12. This drawing is to be read in conjunction with all relevent engineering drawings issued by Escher Silverman for this site only.
13. Paths falling towards entrance thresholds to have ACO drains installed as per architects details

Drainage Legend:

- Domestic foul water drainage
- Domestic surface water drainage.
- So1 — Proposed domestic trench soakaways. Sizing and viability determined by in-situ infiltration testing. Soakaways designed in accordance with Environment Agency criteria and sited a minimum of 5.0m from new dwellings.

Polypropylene Inspection Chamber Types:

- Type 3 - 450mm Ø with A15/B125/D400 cover
- Type 4 - 280mm Ø with A15/B125 cover. Invert 750mm lower than FFL unless noted otherwise
- ST — Type 5 - 450mm Ø Osma Silt Trap with A15/B125 cover
- ACO drainage channel

Surfacing Legend:

- Permeable block paved access and drive
- New entrance construction
- Development Area
- +9.50 — Proposed level

Rev.	Date	Details	Initials
L	16.01.19	Soakaway dimensions amended	KN
K	16.01.19	Additional nygs added Plots 2 & 3	KN
J	14.01.19	Infiltration rates & soakaway sizes amended	KN
H	31.12.18	Plots 2 & 3 drives and Plot 1 drainage amended	KN
G	12.12.18	Internal drainage amended to architect revisions	KN
F	26.10.18	F5 re-positioned	KN
E	08.10.18	Scale amended	KN
D	29.08.18	F5 re-positioned	KN
C	28.08.18	Scheme increased to three plots	KN
B	30.06.18	Soakaway size amendeed. Construction issue	KN
A	03.05.18	First issue	KN

SAFETY, HEALTH & ENVIRONMENTAL INFORMATION
CDM Regulations 2015

In addition to the hazards/risks normally associated with the type of work detailed on this drawing note should be made of the following:

- Working in vicinity of live highway
- Existing services in highway
- Working in vicinity of deep excavations
- Working on live sewers
- Existing services across site & in highway

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement.
Contractor is not relieved of any of his obligations under all applicable health and safety regulations.

Drawing Status: CONSTRUCTION

Project: HURST ROAD
EAST PRESTON

Client: MICHAEL HARTNETT EXECUTIVE HOMES

ESCHER · SILVERMAN
Civil & Structural Consulting Engineers
Roughton, A2 Omega Park, Electron Way, Chandlers Ford, Hampshire SO53 4SE
Tel: 023 8027 8659 Email: reception@eschers.co.uk
www.eschersilverman.com

Drawing Title: Engineering Details
Drainage Layout

Drawn	Checked	Scales	Paper Size	Date
KN		1:200	A1	05.18
Job No.		Drawing No.		Revision
ES1702		502-01		L

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