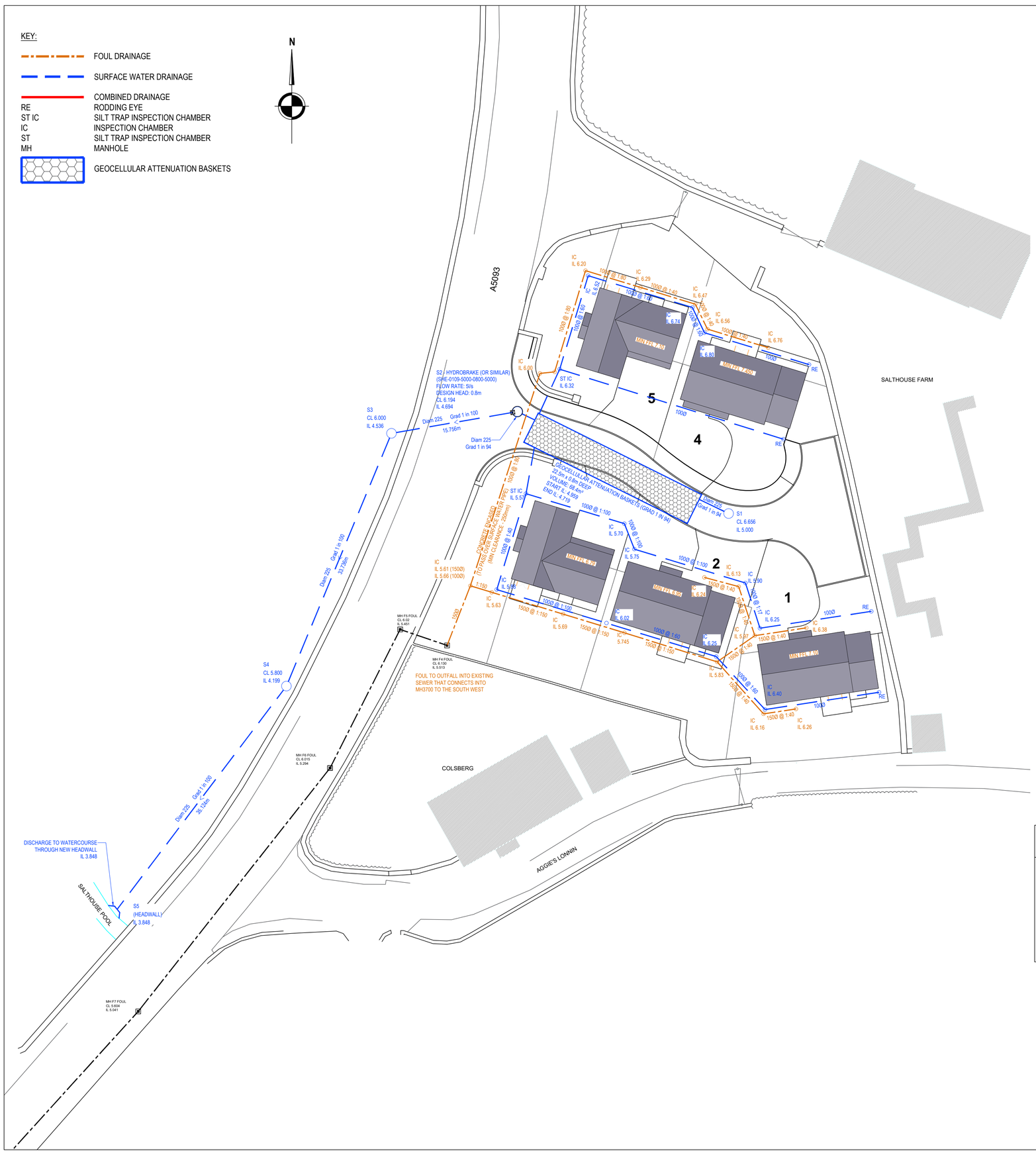
KEY:

- FOUL DRAINAGE
- SURFACE WATER DRAINAGE
- COMBINED DRAINAGE
- RE RODDING EYE
- ST IC SILT TRAP INSPECTION CHAMBER
- IC INSPECTION CHAMBER
- ST SILT TRAP INSPECTION CHAMBER
- MH MANHOLE
- GEOCELLULAR ATTENUATION BASKETS



DRAINAGE STRATEGY:

SUDS HIERARCHY

THE HIERARCHY OF POTENTIAL METHODS FOR DISPOSING OF SURFACE WATER ARE SHOWN BELOW IN ORDER OF PREFERENCE:

- DISCHARGE VIA INFILTRATION
- DISCHARGE TO WATERCOURSE
- DISCHARGE TO A SURFACE WATER SEWER
- DISCHARGE TO A COMBINED SEWER

BRE365 SOAKAWAY HAS BEEN UNDERTAKEN BY THE CLIENT AND DEEMED INFILTRATION DRAIANGE UNSUITABLE FOR THE SITE.

SALTHOUSE POOL IS CULVERTED APPROXIMATELY 50m TO THE SOUTH WESTERN CORNER OF THE SITE. THIS IS THE MOST SUITABLE POINT OF DISCHARGE FOR THE SURFACE WATER.

SURFACE WATER STRATEGY

THE HIGHWAYS, HOUSE ROOF AND DRIVEWAY AREAS WILL BE SERVED BY GEOCELLULAR ATTENUATION BASKETS. THE FLOW FROM THE SITE WILL BE RESTRICTED USING A VORTEX FLOW CONTROL DEVICE. THE SURFACE WATER NEWORK WILL THEN CROSS SALTHOUSE ROAD BEFORE TRAVELLING SOUTH WEST AND DISCHARGING INTO SALTHOUSE POOL.

ATTENUATION FEATURES HAVE BEEN DESIGNED FOR RETURN PERIODS UP TO AND INCLUDING THE 100 YEAR EVENT, WITH A 50% ALLOWANCE FOR CLIMATE CHANGE AND A 10% ALLOWANCE FOR URBAN CREEP.

THE RUNOFF RATE WILL BE RESTRICTED TO 5.0l/s USING A VORTEX FLOW CONTROL DEVICE. THE GREENFIELD RATE WOULD REQUIRE A SMALL ORIFICE TO RESTRICT THE DISCHARGE AND THESE CAN BE PRONE TO BLOCKAGE AND MAINTENANCE ISSUES.

FOUL WATER STRATEGY

THE FOUL WASTE WILL DRAIN VIA A GRAVITY FED PIPED NETWORK AND DISCHARGE INTO THE EXISTING FOUL MANHOLE AT THE SOUTH WESTERN BOUNDARY OF THE SITE. THIS ULTIMATELY DISCHARGES INTO THE EXISTING UU MANHOLE (3700) FURTHER TO THE SOUTH WEST.

MAINTENANCE

PLOT DRAINAGE WILL BE THE RESPONSIBILITY OF THE INDIVIDUAL HOMEOWNER (MAINTENANCE PACK TO BE PROVIDED).

THE MAIN DRAINAGE NETWORK WILL BE THE RESPONSIBILITY OF A MANAGEMENT COMPANY (MAINTENANCE PACK TO BE PROVIDED.

LATERAL DRAINS

LATERAL DRAINS SHALL BE TO BUILDING REGULATIONS APPROVED DOCUMENT H. 100mm U.P.V.C PIPES LAID TO THE FOLLWING MINIMUM FALLS UNLESS OTHERWISE SHOWN:

	FOUL	S.W
HEAD RUN	1 IN 40	1 IN 60
ELSEWHERE	1 IN 80	1 IN 100

THESE NOTES ARE BASED ON THE USE OF EXPERIENCED AND COMPETENT CONTRACTORS CARRYING OUT THE WORK USING AN APPROVED SAFE METHOD OF WORKING

KEY TO HEALTH AND SAFETY SYMBOLS

- INDICATES A RESIDUAL RISK REQUIRING COMPULSORY ACTION
- INDICATES A RESIDUAL RISK FOR INFORMATION
- INDICATES A RESIDUAL RISK REQUIRING A PROHIBITIVE ACTION
- INDICATES A RESIDUAL RISK AS A WARNING

- ALL EXISTING DRAINAGE LEVELS TO BE CHECKED PRIOR TO COMMENCEMENT
- CONTRACTOR TO SITE MEASURE TO CONFIRM DIMENSIONS BEFORE COMMENCING WORK
- TEMPORARY STABILITY OF EXCAVATIONS TO BE ENSURED BY CONTRACTOR
- BURIED SERVICES - CONTRACTOR TO CAT SCAN AND IDENTIFY ANY BURIED SERVICES PRIOR TO COMMENCEMENT
- GROUND TO BE BATTERED BACK AT MIN 1:1 DURING DEEP EXCAVATIONS - IF THIS CANNOT BE ACHIEVED THEN TEMPORARY SHORING WORKS TO BE DESIGNED BY THE CONTRACTOR
- FOUL DRAINAGE SUBJECT TO S106 AGREEMENT WITH UNITED UTILITIES
- SURFACE WATER SUBJECT TO AGREEMENT OF FLOW RATES AND LOCATION WITH LLFA/LPA

REV	DATE	DESCRIPTION	BY	CHK	APP
P04	27/05/2025	REMOVED COMPENSATORY STORAGE AREA AS NO LONGER FZ3	RB	RG	MG
P03	20/03/2025	AMENDED DRAINAGE LEVELS	RB	RG	MG
P02	18/03/2025	AMENDED COMPENSATORY STORAGE AREA	RB	RG	MG
P01	15/01/2025	PRELIMINARY ISSUE	RB	RG	MG

DRAWING STATUS: **PRELIMINARY**

CLIENT: NEIL PRICE LTD

ARCHITECT: -

PROJECT: SALTHOUSE FARM, MILLOM, LA18 5EX

TITLE: DRAINAGE LAYOUT

STATUS:	PROJECT No.	ORIGINATOR	PHASE	LEVEL	TYPE	ROLE	DRAWING No.	REV:
S2	24035	GAD	ZZ	00	DR	C	1000	P04

SCALE @ A1:	DESIGNED:	DRAWN:	CHECKED:	APPROVED:	DATE:
1:250	RB	RB	RG	MG	JAN 2025

GADSDEN CONSULTING
info@gadsdens.co.uk 01229 813333 www.gadsdens.co.uk