DRAINAGE AREA	AREA (HA)	IMPERMEABLE AREA (HA) *(BASED ON 60%)*	IMPERMEABLE AREA (HA) INCLUDING URBAN CREEP (10%)	GREENFIELD (l/s)				PROPOSED DISCHARGE RATES (L/S)				ATTENUATION VOLUME PROVIDED (m³)	ATTENUATION VOLUME UTILISED (m³)	FREEBOARD PROVIDED (mm)
				QBAR	1 IN 1-YEAR	1 IN 30-YEAR	1 IN 100-YEAR	1 IN 2-YEAR	1 IN 30-YEAR	1 IN 100-YEAR	1 IN 100-YEAR + 45% CC			
OUTFALL 1														
DA 1	13.388	8.033	8.836	32.4	27.6	74.4	103.2	3.0	3.0	3.0	3.0	8997	8954	306
DA 2	18.339	11.003	12.104	44.4	37.8	102.0	141.4	63.0	63.0	63.0	63.0	8932	8890	306
NORTHERN ROUNDABOUT	0.268	0.268 (100%)	0.268	0.6	0.6	1.5	2.1	4.0	4.0	4.0	4.0	171	171	-
OUTFALL 1 TOTAL	31.727	19.304	21.208	77.4	65.9	177.9	246.7	70.0	70.0	70.0	70.0	18100.0	18015.0	-
OUTFALL 2														
DA 3	11.998	7.199	7.919	29.0	24.7	66.7	92.5	5.4	5.4	5.4	5.4	7988	7988	300
DA 4*	2.369	1.185	1.303	5.7	4.9	13.2	18.3	2.0	2.0	2.0	2.0	1386	1386	-
SOUTHERN ROUNDABOUT	0.299	0.299 (100%)	0.299	0.7	0.6	1.7	2.3	1.4	1.4	1.4	1.4	215	215	300
OUTFALL 2 TOTAL	14.666	7.498	9.521	35.5	30.2	81.5	113.1	8.8	8.8	8.8	8.8	9589.0	9589.0	-
OUTFALL 3														
DA 5	8.168	4.901	5.391	19.8	16.8	45.4	63.0	1.0	1.0	1.0	1.0	2321	2063	411
DA 6	7.691	4.615	5.076	18.6	15.8	42.8	59.3	7.5	7.5	7.5	7.5	9754	9754	300
OUTFALL 3 TOTAL	15.859	9.515	10.467	38.4	32.7	88.2	122.3	8.5	8.5	8.5	8.5	12075.0	11817.0	-

NOTE (*): FOR DRAINAGE AREA 4 (SCHOOL DEVELOPMENT) 50% IMPERMEABLE AREA WITH 10% URBAN CREEP ASSUMED.

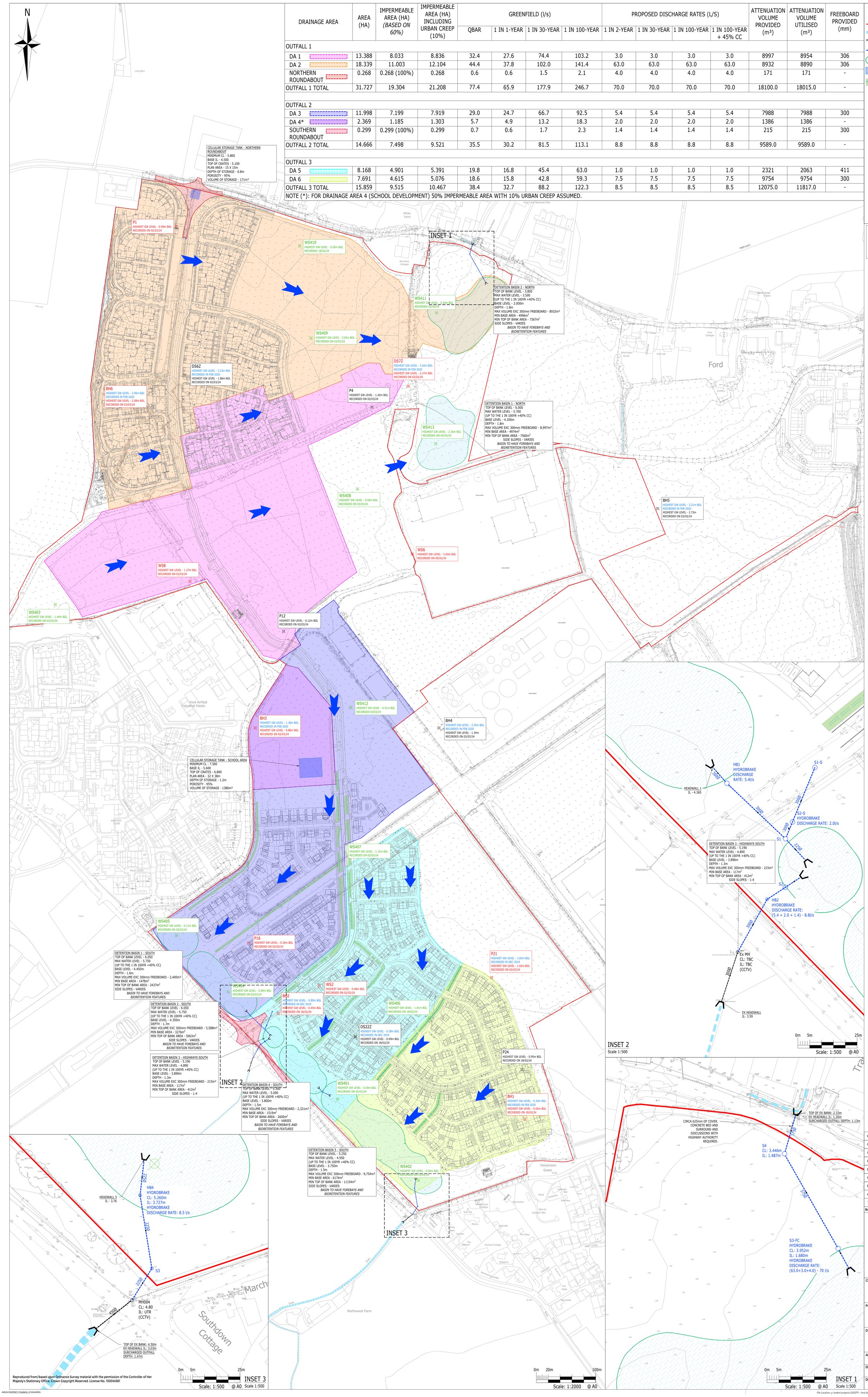
KEY

- SITE BOUNDARY
- EXISTING DRAINAGE DITCH
- EXISTING SURFACE WATER SEWER
- PROPOSED SURFACE WATER SEWER
- DETENTION BASIN
- CELLULAR STORAGE TANK
- PROPOSED STRATEGIC SWALE ROUTE
- P16 — 7 No. RSK GROUNDWATER MONITORING POINTS TO BE REINSTALLED DURING JANUARY 2024
- BH3 — 11 No. RSK GROUNDWATER MONITORING POINTS REINSTALLED DURING DECEMBER 2023
- WS412 — 12 No. NEW GROUNDWATER MONITORING POINTS TO BE INSTALLED

PROPOSED COORDINATES

REF	EASTING	NORTHING
WS401	499,187	102,383
WS402	499,323	102,246
WS403	499,711	102,217
WS404	499,002	102,563
WS405	498,915	102,658
WS406	499,341	102,519
WS407	499,200	102,799
WS408	499,221	103,412
WS409	499,142	103,666
WS410	499,123	103,822
WS411	499,354	103,709
WS412	499,209	103,043
WS413	499,352	103,488

DRAINAGE NOTE
PROPOSED SITEWIDE DRAINAGE STRATEGY AND ABOVE GROUND SUDS FEATURES SUCH AS SWALES ARE SHOWN INDICATIVELY ONLY. AS PART OF MITIGATION MEASURES, ADDITIONAL AT SOURCE SUDS COMPONENTS SUCH AS WATER BUTTS WILL BE PROVIDED WITHIN THE DEVELOPMENT PARCELS.



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DRAFT

FOR INFORMATION ONLY

Rev	Description	Drn	Chk	App	Date
H	REVISED TO SUIT NEW SITE LAYOUTS	MCE	EF	CC	15.08.24
G	UPDATED FOLLOWING CLIENT COMMENTS	MCE	EF	CC	13.08.24
F	UPDATED FOLLOWING LLFA COMMENTS	MCE	EF	CC	09.08.24
E	ISSUED ONLY INTERNAL COMMENTS	MCE	EF	CC	24.07.24
D	REVISED DRAINAGE AREAS & SUDS FEATURES	MCE	EF	CC	03.07.24
C	REVISED DRAINAGE AREAS	WA	EF	CC	30.04.24
B	REVISED DRAINAGE AREAS	MCE	EF	CC	10.04.24
A	PROVISION FOR SITE ACCESS DRAINAGE CLARIFIED	TKH	EF	CC	26.03.24
*	DRAFT ISSUE	AMC	EF	CC	28.02.24

ARDENT CONSULTING ENGINEERS
Third Floor
The Hallmark Building
52-56 Leadenhall Street
London
EC3M 5JE
Tel: 020 7680 4088
Web: www.ardent-ce.co.uk
E-mail: enquiries@ardent-ce.co.uk

Client: VISTRY SOUTH EAST

Project Title: FORD AIRFIELD, ARUN

Drawing Title: SITEWIDE INDICATIVE SURFACE WATER DRAINAGE STRATEGY

A0 Scale	Date	Designed by
AS SHOWN	14-02-24	AMC
Drawn by: AMC	Checked by: EF	Approved by: CC

Drawing Number: 2205771-D020 — Rev: H