

DO NOT SCALE

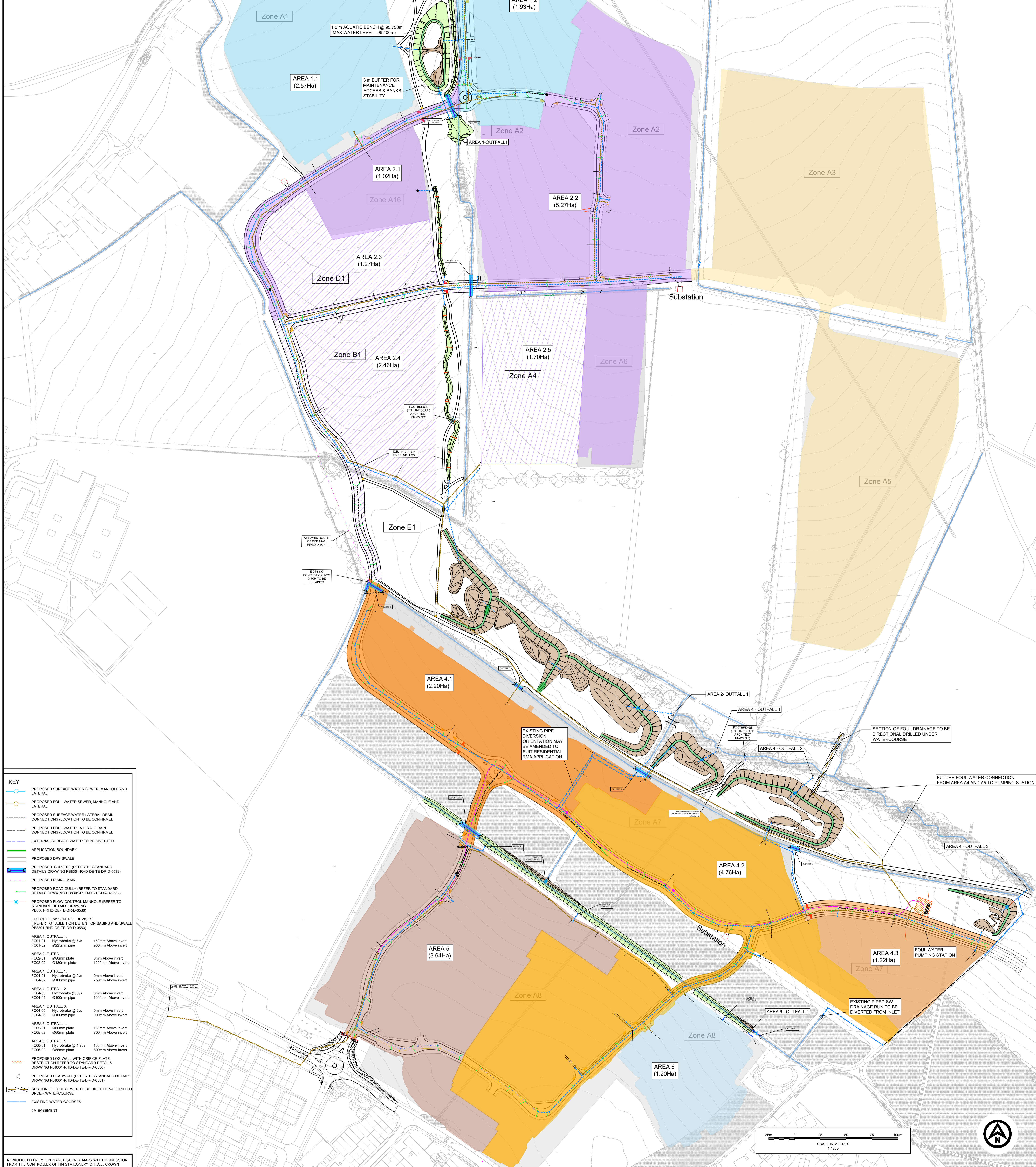
Outfall	Land use	Pollution hazard index	Total Suspended Solids (TSS)			Hydro-carbons			SuDS Index				
			1 to 10	11 to 20	21 to 30	1 to 10	11 to 20	21 to 30	1 to 10	11 to 20	21 to 30		
1	Individual property driveway residential car parks, low traffic roads and non-residential car parking with infrequent change	Low	0.5	0.4	0.4	Swale (1)	1.1	1.15	1.15	Pond (2)	0.75	0.85	1.15
2	Commercially and delivery areas, non-residential car parking with frequent change, all roads except low traffic roads and trunk roads/motorways	Medium	0.7	0.6	0.7	Swale (1)	0.75	0.85	0.85	Swale (2)	0.75	0.8	0.8
3	Individual property driveway residential car parks, low traffic roads and non-residential car parking with infrequent change	Low	0.5	0.4	0.4	Swale (1)	0.85	0.95	0.95	Pond (2)	0.75	0.8	0.8
4	Commercially and delivery areas, non-residential car parking with frequent change, all roads except low traffic roads and trunk roads/motorways	Medium	0.7	0.6	0.7	Swale (1)	0.75	0.8	0.8	Swale (2)	0.75	0.8	0.8
5	Commercially and delivery areas, non-residential car parking with frequent change, all roads except low traffic roads and trunk roads/motorways	Medium	0.7	0.6	0.7	Swale (1)	0.75	0.8	0.8	Swale (2)	0.75	0.8	0.8

TABLE 2. SuDS WATER TREATMENT

SuDS treatment (treatment train position 1 to n)	TSS			Metals			Hydro-carbons		
	1 to 10	11 to 20	21 to 30	1 to 10	11 to 20	21 to 30	1 to 10	11 to 20	21 to 30
Swale	0.5	0.6	0.6	0.7	0.7	0.5	0.5	0.5	0.5
Pond	0.7	0.7	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Detention Basin	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

Catchment	Site Area (ha)	Open Area (ha)	Area Practically Drains (Pa)	Impermeable Area (i%)			Discharge Rates (lit/s)			Storage Required			Storage Provided on SuDS			
				Ratio	Value	Total	1 in 10 (Pa, 24h)	1 in 30 (Pa, 24h)	1 in 100 (Pa, 24h)	Attenuation (lit/s)	1 in 10 (Pa, 24h)	1 in 30 (Pa, 24h)	1 in 100 (Pa, 24h)	Interception Volume (lit)	Total Volume Available (lit)	LTS Available (LTS)
Outfall 1			Area 1.1 Area 1.2 Area 2.1	2.57 1.83 1.57	0.55 1.15 0.60	1.41 1.15 3.61	5.14	13.66	18.95	2074	302	120	2210	460	152	
Outfall 2			Area 2.2 (Local Centre) Area 2.4 (School) Area 2.5 (Care Home)	1.27 2.46 1.25	0.80 0.80 0.80	1.03 1.43 1.02	14.07	30.69	53.70	9932	657	304	5428	1550	102	
Outfall 3			Area 2	8.14	0.80	4.88	4.88	9.27	25.99	38.00	3979	574	244	5463	480	5463
Outfall 4			Area 1.1 Area 1.2 Area 4.1 Area 4.2 Area 4.3	2.15 1.83 4.78 2.87 1.22	0.80 0.80 0.80 0.80 0.80	1.29 1.29 2.87 2.87 0.73	9.70	25.97	36.64	2355	387	143	4031	1283	4031	
Outfall 5			Area 5	3.18	0.80	2.18	2.18	4.37	11.60	16.10	1776	257	109	1010	312	76
Outfall 6			Area 6	1.20	0.80	0.72	0.72	1.44	3.62	5.31	596	85	36	328	85	76
TOTAL	33.25	35.98		33.25		22.93					18447	2599	1127	28623	4447	18102

TABLE 1. CATCHMENT AREAS FLOWS AND STORAGE ASSESSMENT



**KEY:**

- PROPOSED SURFACE WATER SEWER, MAN-HOLE AND LATERAL
- PROPOSED FOUL WATER SEWER, MAN-HOLE AND LATERAL
- PROPOSED SURFACE WATER LATERAL DRAIN CONNECTIONS (LOCATION TO BE CONFIRMED)
- PROPOSED FOUL WATER LATERAL DRAIN CONNECTIONS (LOCATION TO BE CONFIRMED)
- EXTERNAL SURFACE WATER TO BE DIVERTED
- APPLICATION BOUNDARY
- PROPOSED DRY SWALE
- PROPOSED CULVERT (REFER TO STANDARD DETAILS DRAWING PB8301-RHD-DE-TE-DR-D-0532)
- PROPOSED RISING MAIN
- PROPOSED ROAD GULLY (REFER TO STANDARD DETAILS DRAWING PB8301-RHD-DE-TE-DR-D-0532)
- PROPOSED FLOW CONTROL MANHOLE (REFER TO STANDARD DETAILS DRAWING PB8301-RHD-DE-TE-DR-D-0532)
- LIST OF FLOW CONTROL DEVICES (REFER TO TABLE 1 ON DETENTION BASINS AND SWALE PB8301-RHD-DE-TE-DR-D-0532)
- PROPOSED LOG WALL WITH ORIFICE PLATE RESTRICTION REFER TO STANDARD DETAILS DRAWING PB8301-RHD-DE-TE-DR-D-0532
- PROPOSED HEADWALL INLET TO STANDARD DETAILS DRAWING PB8301-RHD-DE-TE-DR-D-0532
- SECTION OF FOUL SEWER TO BE DIRECTIONAL DRILLED UNDER WATERCOURSE
- EXISTING WATER COURSES
- 6M EASEMENT

**GENERAL NOTES**

- DO NOT SCALE FROM THIS DRAWING.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- ALL LEVELS ARE IN METRES RELATIVE TO ORDNANCE DATUM NEWLYN UNLESS NOTED OTHERWISE.
- THIS DRAWING HAS BEEN BASED UPON SURVEY / OS INFORMATION SUPPLIED BY INTERLOCK'S SURVEYS LIMITED. REDROW HASKONING DHV SHALL NOT BE LIABLE FOR ANY INACCURACY OR DEFICIENCIES ARISING FROM IT.
- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS.
- ALL MATERIALS AND WORKMANSHIP WILL BE AS SPECIFIED IN THE SPECIFICATION UNLESS NOTED OTHERWISE.
- ALL LEVELS, DIMENSIONS AND LOCATIONS ARE TO BE CHECKED BY THE MAIN CONTRACTOR PRIOR TO COMMENCEMENT OF ANY WORK ON SITE.

NO.	DATE	DESCRIPTION	BY	CHK.	APP.
113	10/03/20	UPDATED TO LOCAL AUTHORITY COMMENTS	JBW	PV	DJ
112	24/02/20	UPDATED POND LAYOUT	JBW	PV	DJ
111	04/02/20	UPDATED AS PER JANUARY COMMENTS	JBW	PV	DJ
110	18/12/19	REVISED AS PER LPA COMMENTS	RMV	PV	DJ
109	10/09/19	ISSUED FOR LAND OWNER COMMENTS	RMV	PV	DJ
108	10/07/19	EXISTING WATER COURSES ADDED	JBW	PV	DJ
107	04/04/19	LATERAL DRAINS ADDED FOR LOCAL CENTRE	RMV	PV	DJ
106	22/03/19	ISSUED FOR RESERVED MATTERS APPROVAL	RMV	PV	DJ
105	15/03/19	ISSUED FOR LAND OWNER COMMENTS	RMV	PV	DJ
104	08/02/19	ISSUED FOR PRE APP MEETING	JBW	PV	DJ
103	DATE	DESCRIPTION	BY	CHK.	APP.

**REDROW**

RESERVED MATTERS DRAINAGE STRATEGY

**Royal HaskoningDHV**  
Enhancing Society Together

DATE: OCT-18  
SCALE: A1:250  
PROJECT NUMBER: PB8301  
DRAWING NO: PB8301-RHD-DE-H1-DR-D-0500  
REVISION: 113