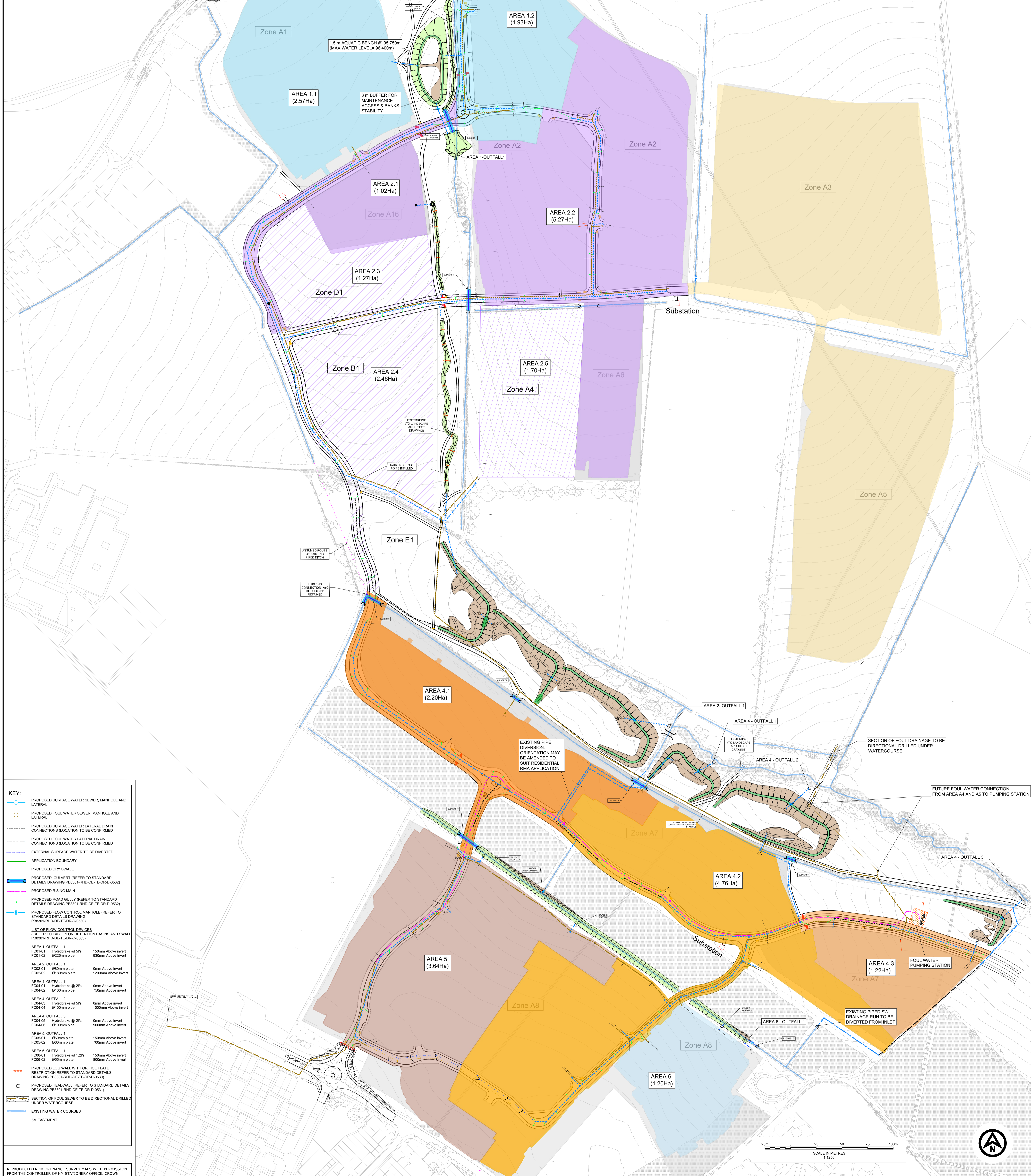


Outfall	Land use	Pollution hazard index	Total Suspended Solids (TSS)			Hydro-carbons	SuDS Treatment (1 to n)		
			TSS	Metals	Hydro-carbons		SuDS Treatment (1 to n)	TSS	Metals
1	Individual property driveways, residential car parks, low traffic roads and non-residential car parking with infrequent change	Low	0.5	0.4	0.4	Swale (1)	1.1	1.15	1.15
2	Commercial yard 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	Pond (2)	0.75	0.85	1.15
3	Individual property driveways, 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	0.85	0.85
4	Commercial yard 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	Detention Basin (1)	0.75	0.8	0.8
5	Commercial yard 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	Detention Basin (2)	0.75	0.8	0.8

TABLE 2. SuDS WATER TREATMENT

TABLE 1. CATCHMENT AREAS FLOWS AND STORAGE ASSESSMENT

Outfall	Site Area (Ha)	SuDS Area (Ha)	Area Positively Contributing (m²)	Impermeable Area (m²)			Overhead Rainfall (mm)			Storage Required			Storage Provided on Site			
				Ratio	Value	Total	1 in 1 (0.027%)	1 in 10 (0.27%)	1 in 100 (2.7%)	Retention Volume (m³)	Retention Volume (m³)	Retention Volume (m³)	Total Volume Available (m³)	ITS Available (m³)	Retention Volume (m³)	
Outfall 1			Area 1.1 Area 1.2	2.57 1.83	0.54 0.50	1.41 1.15	3.07	0.14	13.65	91.85	2004	302	120	2269	400	152
Outfall 2			Area 2.1 Area 2.2 Area 2.3 (Local Centre) Area 2.4 (School) Area 2.5 (Care Home)	1.27 5.27 1.27 2.46 1.73	0.50 0.50 0.50 0.50 0.50	1.02 3.67 1.02 1.48 1.12	7.38	61.57	38.69	63.70	5002	657	394	5419	1050	132
Outfall 3			Area 3	9.14	0.80	4.88	4.88	6.77	25.63	36.00	3078	674	241	5463	845	845
Outfall 4			Area 4.1 Area 4.2 Area 4.3	2.75 4.78 1.32	0.50 0.50 0.50	1.25 2.87 0.73	3.75	6.70	25.67	36.54	3336	337	140	4011	1333	4011
Outfall 5			Area 5	3.94	0.50	2.10	2.10	4.27	11.69	66.40	1770	227	139	1029	312	79
Outfall 6			Area 6	1.20	0.50	0.72	0.72	1.41	3.82	6.31	496	36	36	430	65	16
TOTAL	73.35	35.50		37.36		22.63		22.63			16347	2543	1127	20423	4447	16102



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- DO NOT SCALE FROM THIS DRAWING.
  - ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
  - ALL LEVELS ARE IN METRES RELATIVE TO ORDNANCE DATUM UNLESS NOTED OTHERWISE.
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  - ALL LEVELS, DIMENSIONS AND LOCATIONS ARE TO BE CHECKED BY THE MAIN CONTRACTOR PRIOR TO COMMENCEMENT OF ANY WORK ON SITE.

**LIST OF FLOW CONTROL DEVICES**  
(REFER TO TABLE 1 ON DETENTION BASINS AND SWALE PB8301-RHD-DE-TE-DR-D-0500)

AREA 1, OUTFALL 1	FC01-01	Hydrocra @ 5%	150mm Above Invert
AREA 1, OUTFALL 1	FC01-02	Ø225mm pipe	900mm Above Invert
AREA 2, OUTFALL 1	FC02-01	Ø80mm plate	0mm Above Invert
AREA 2, OUTFALL 1	FC02-02	Ø150mm pipe	1200mm Above Invert
AREA 4, OUTFALL 1	FC04-01	Hydrocra @ 2%	0mm Above Invert
AREA 4, OUTFALL 1	FC04-02	Ø100mm pipe	750mm Above Invert
AREA 4, OUTFALL 2	FC04-03	Hydrocra @ 5%	0mm Above Invert
AREA 4, OUTFALL 2	FC04-04	Ø100mm pipe	1000mm Above Invert
AREA 4, OUTFALL 3	FC04-05	Hydrocra @ 2%	0mm Above Invert
AREA 4, OUTFALL 3	FC04-06	Ø100mm pipe	900mm Above Invert
AREA 5, OUTFALL 1	FC05-01	Ø80mm plate	150mm Above Invert
AREA 5, OUTFALL 1	FC05-02	Ø80mm plate	700mm Above Invert
AREA 6, OUTFALL 1	FC06-01	Hydrocra @ 1.2%	150mm Above Invert
AREA 6, OUTFALL 1	FC06-02	Ø80mm plate	900mm Above Invert

**REVISIONS**

NO.	DATE	DESCRIPTION	BY	CHK.	APP.
112	14/02/20	UPDATED POND LAYOUT	JRW	PV	DJ
111	14/02/20	UPDATED AS PER JANUARY COMMENTS	JRW	PV	DJ
110	10/12/19	REVISED AS PER LFA COMMENTS	RMV	PV	DJ
89	30/09/19	ISSUED FOR LAND OWNER COMMENTS	RMV	PV	DJ
88	20/09/19	ISSUED FOR LAND OWNER COMMENTS	RMV	PV	DJ
87	14/09/19	LATERAL DRAINING ADDED FOR LOCAL CENTRE	RMV	PV	DJ
86	22/03/19	ISSUED FOR RESERVED MATTERS APPROVAL	RMV	PV	DJ
85	15/03/19	ISSUED FOR LAND OWNER COMMENTS	RMV	PV	DJ
84	18/02/19	ISSUED FOR PRE APP MEETING	JRW	PV	DJ
83	07/01/19	TABLE 2 ADDED: AREA 5 ADJUSTED	JRW	PV	DJ
82	14/11/18	DATE	BY	CHK.	APP.
81	03/08/18				

**INFORMATION**

NO.	DATE	DESCRIPTION	BY	CHK.	APP.
112	14/02/20	UPDATED POND LAYOUT	JRW	PV	DJ

**REDROW**

RESERVED MATTERS DRAINAGE STRATEGY

DATE: OCT-18 SCALE: 1:1250 PROJECT NUMBER: PB8301

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