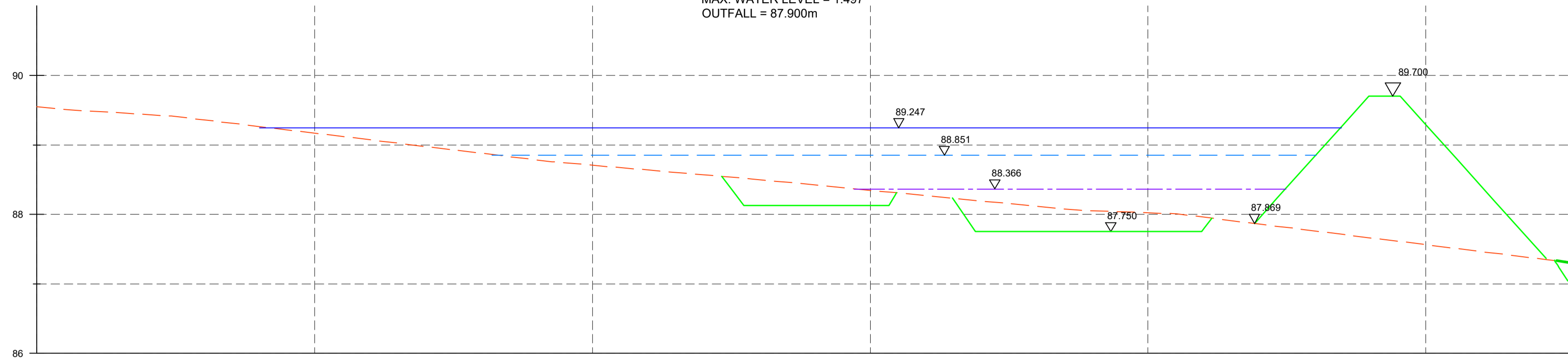
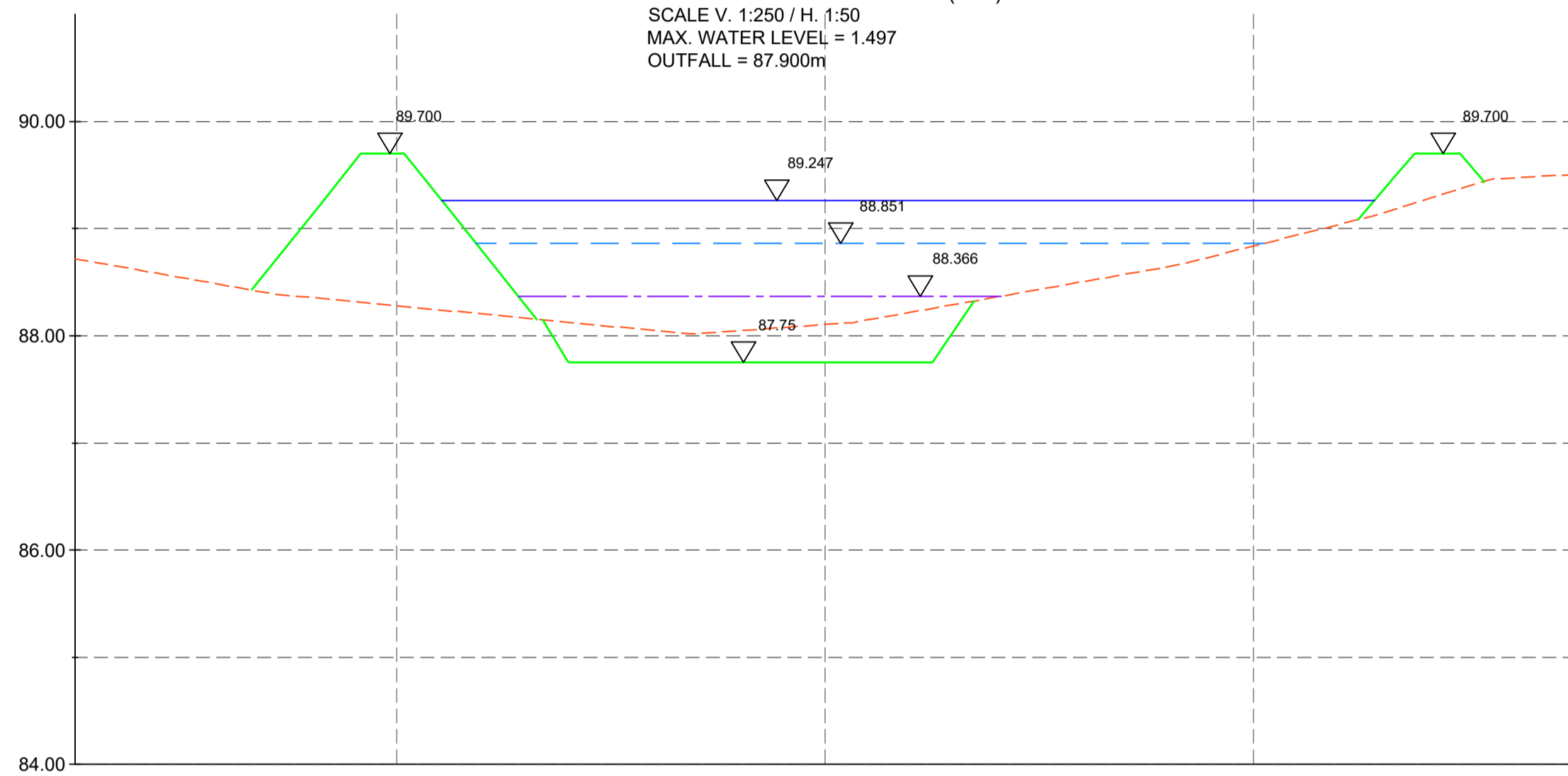


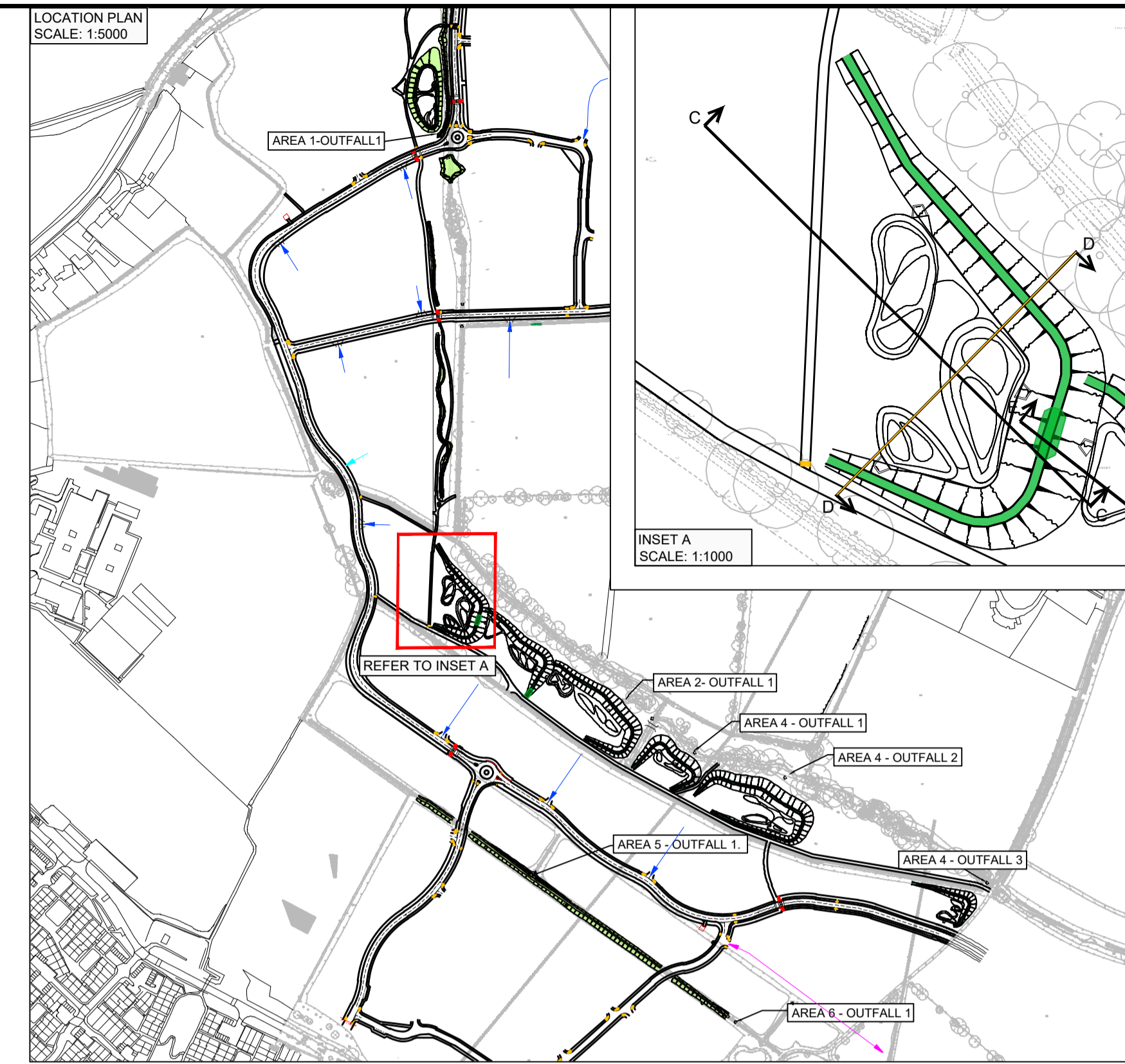
POND 2.1 LONGSECTION (C-C)
SCALE V. 1:250 / H. 1:50
MAX. WATER LEVEL = 1.497
OUTFALL = 87.900m



POND 2.1 CROSS SECTION (D-D)
SCALE V. 1:250 / H. 1:50
MAX. WATER LEVEL = 1.497
OUTFALL = 87.900m



LOCATION PLAN
SCALE: 1:5000

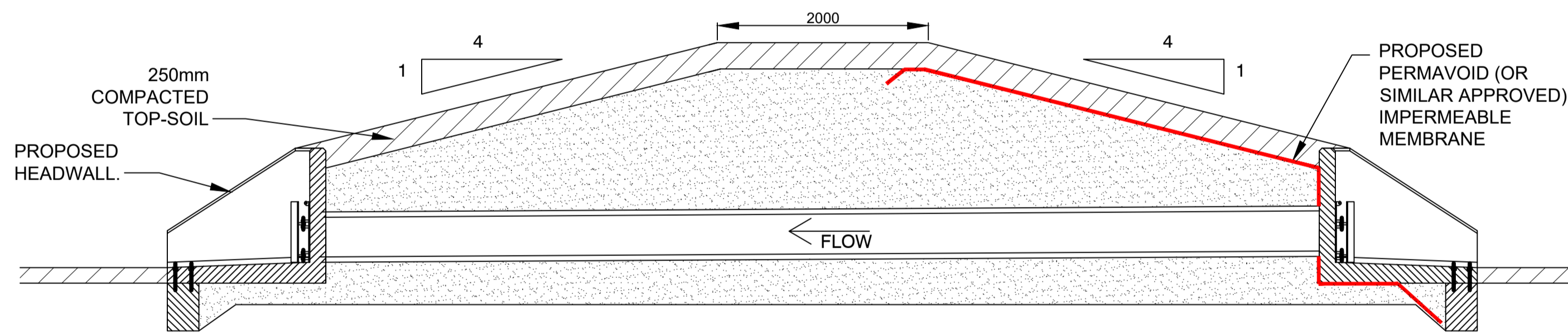


GENERAL NOTES

- DO NOT SCALE FROM THIS DRAWING.
- ALL DIMENSIONS ARE IN METRES 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 OTHERS, ROYAL 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.

KEY

- CROSS/LONGITUDINAL SECTION
- EXISTING GROUND PROFILE
- PROPOSED GROUND PROFILE
- 1 IN 1 STORM WATER PROFILE
- 1 IN 30 STORM WATER PROFILE
- 1 IN 100 +30% CC STORM WATER PROFILE



TYPICAL DETENTION BASIN MOUND DETAIL (NTS)

REV	DATE	DESCRIPTION	BY	CHK	APP
104	25/03/20	UPDATED TO LOCAL AUTHORITY COMMENTS	JBW	PV	DJ
103	24/02/20	UPDATED POND LAYOUT	JBW	PV	DJ
102	11.02.20	UPDATED POND DISCHARGE RATES	JBW	PV	DJ
101	22.03.19	FIRST ISSUE	JBW	PV	DJ

REVISIONS

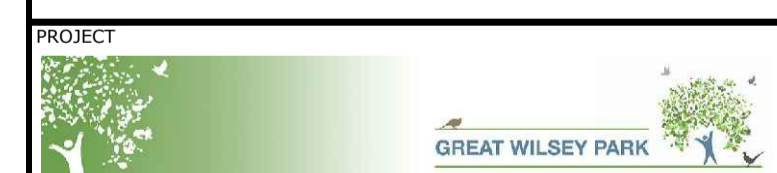
DRAWING STATUS

INFORMATION

CLIENT



PROJECT



TITLE

DETENTION BASIN 2.1
DETAILS

Portland Street,
Manchester One, 9th Floor
Manchester, M1 3LF
Tel +44(0)161 2361018
Email info.manchester@uk.rdhv.com
Website www.royalhaskoning.com



DRAWN	CHECKED	APPROVED
JBW	PV	DJ
DATE	SCALE AT A1	PROJECT NUMBER
MAR-19	AS SHOWN	PB8301

DRAWING No. PB8301-RHD-DE-H1-DR-D-0551

REVISION I04

Catchment	Greenfield Conditions			Networks													
	Required Discharge rates (IH124)			Outfall - Flow control system							Discharge rates(Q) Water levels(WL)						
	Q1 in 1	Q1 in 30	Q1 in 100	Outfall number	DS Pipe number	Manhole number	Cover Level	Invert Level	Flow control Ref.	Type	Depth Above Invert(mm)	Q1 in 1		Q1 in 30		Q1 in 100	
Area 2	14.57	38.69	53.70	n/a	8.009	S2.46	89.70	87.90	n/a	Ø375mm Pipe	0	88.366	88.851	89.247			
				n/a	8.012	S2.49	88.50	86.74	n/a	Ø300mm Pipe	0	87.343	87.807	88.086			
				Area 2, Outfall 1	8.016	S2.53FC	87.40	85.41	FCO2-01	Ø80mm Plate	0	12.20	86.490	38.00	86.841	53.70	87.058
								FCO2-02	Ø180mm Pipe	1200							
				TOTAL							12.20	38.00	53.70				

TABLE 1 - DISCHARGE DETAILS

Detention Basin 2.1			
Depth(m)	Area(m²)	Estimated Volume(m³) (A1-A2) x H	Cumulative Volume(m³)
-0.150	534.8	80.2	80.2
0.000	5.4	0.0	80.2
0.250	272.3	34.8	115.1
0.500	886.0	119.8	234.8
0.750	1060.0	219.0	453.8
1.000	1490.0	319.5	773.3
1.250	2154.0	455.5	1228.8
1.500	2607.0	557.6	1911.5
TOTAL		1811.5	1911.5

TABLE 2 - DETENTION BASIN 2.1 VOLUME DETAILS