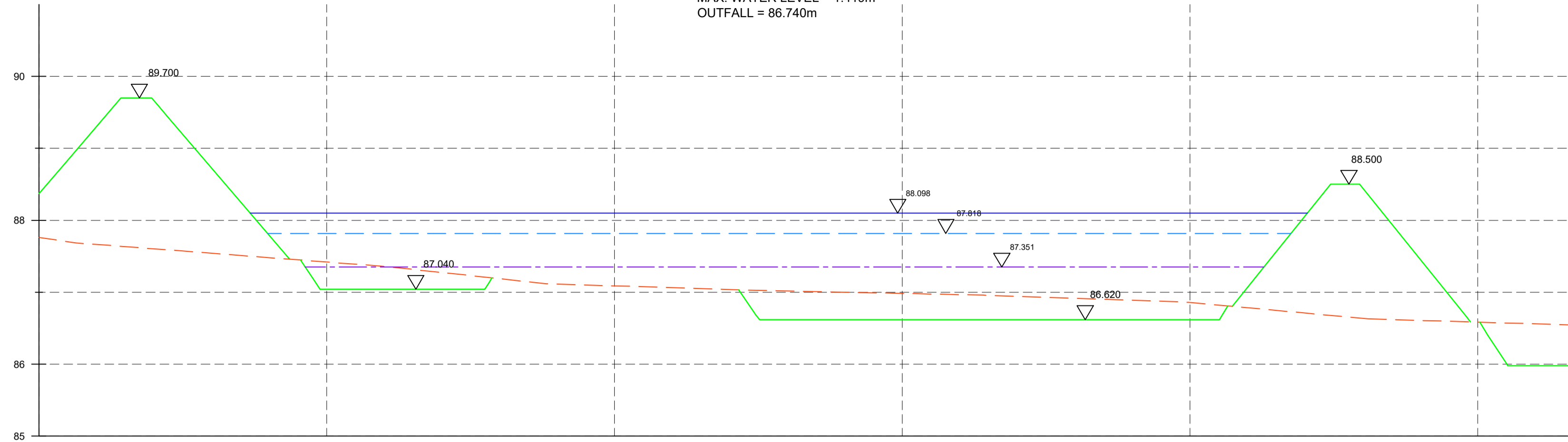
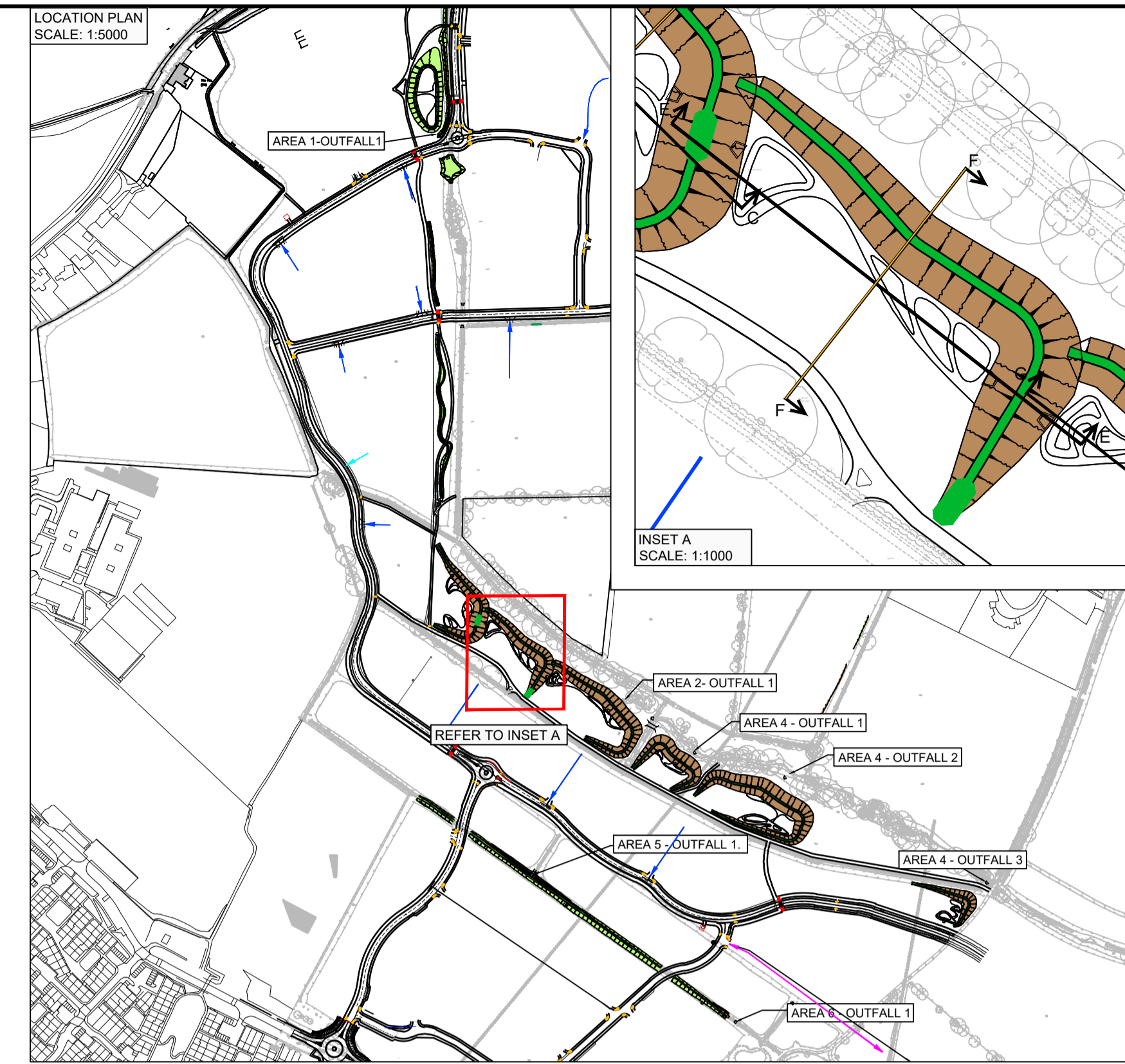
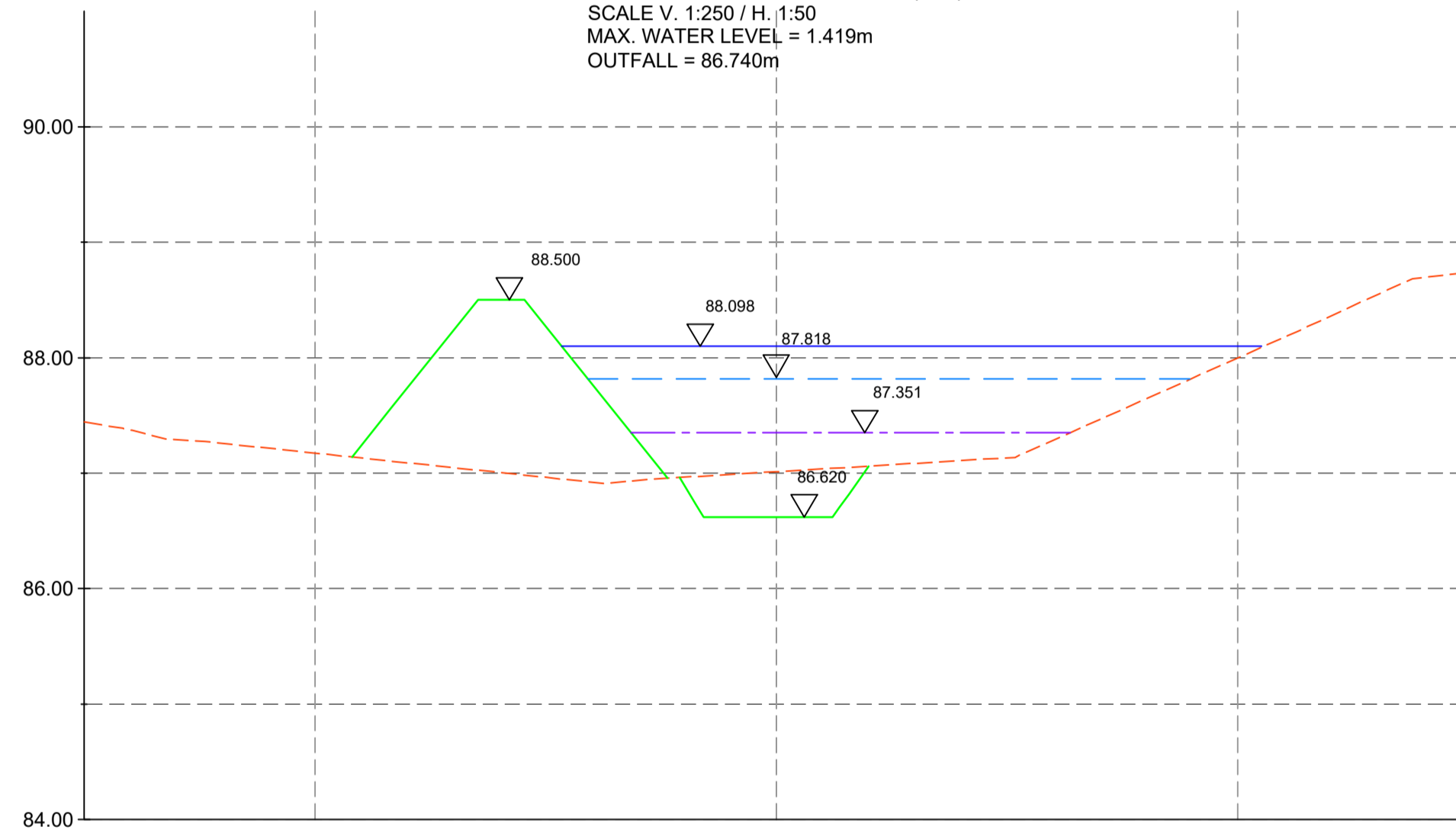


POND 2.2 LONGSECTION (E-E)
SCALE V. 1:250 / H. 1:50
MAX. WATER LEVEL = 1.419m
OUTFALL = 86.740m



POND 2.2 CROSS SECTION (F-F)
SCALE V. 1:250 / H. 1:50
MAX. WATER LEVEL = 1.419m
OUTFALL = 86.740m

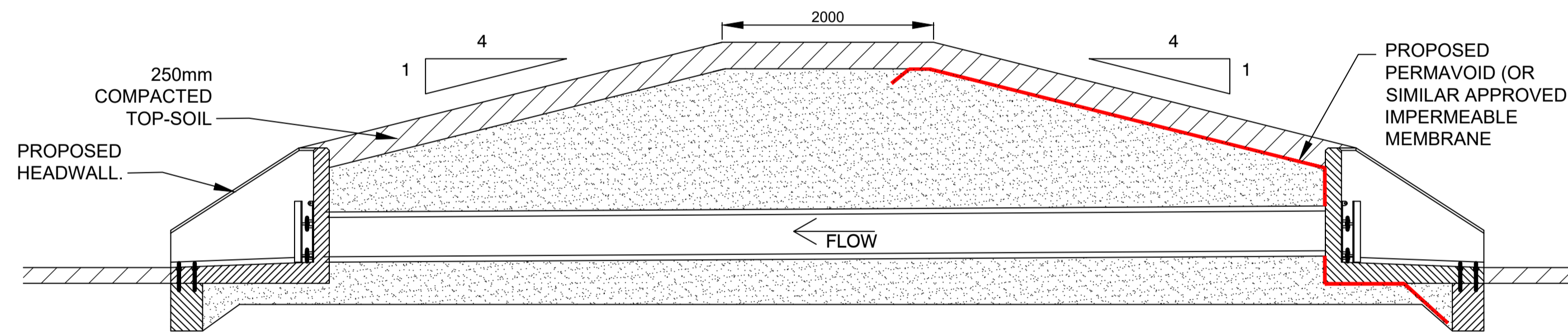


GENERAL NOTES

- 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)

Catchment	Greenfield Conditions			Networks																			
	Required Discharge rates (RH24)			Outfall - Flow control system								Discharge rates (Q) / Water levels (WL)											
	Q1 in 1	Q1 in 30	Q1 in 100	Outfall number	OS 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	Q	WL	Q	WL	Q	WL			
Area 2	14.57	38.89	93.70	n/a	8.009	S2.46	89.70	87.90	n/a	Ø375mm Pipe	0	88.960	88.862	89.264									
				n/a	8.012	S2.49	88.50	86.74	n/a	Ø300mm Pipe	0	87.351	87.818	88.098									
				Area 2 Outfall 1	8.016	S2.53FC	87.40	85.41	FOC0-01	Ø180mm Rate	0	12.20	86.501	26.30	86.848	93.70	87.066						
										FOC0-02	Ø180mm Pipe	1200											
									TOTAL		12.20	26.30	93.70										

TABLE 1 - DISCHARGE DETAILS

Detention Basin 2.2			
Depth (m)	Area (m²)	Est. max. Vol. (m³) (at 100% CC)	Cumulative Volume (m³)
0.40	879.5	121.9	121.9
0.60	1.8	0.0	121.9
0.250	233.9	29.6	151.4
0.500	969.5	77.8	229.2
0.750	612.6	126.4	355.6
1.000	1002.9	231.9	587.5
1.250	2250.3	407.4	994.9
1.500	2714.0	621.3	1616.2
TOTAL		1564.92	1616.2

TABLE 2 - DETENTION BASIN 2.2 VOLUME DETAILS

REV	DATE	DESCRIPTION	BY	CHK	APP
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 2.2 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-0552

REVISION I03