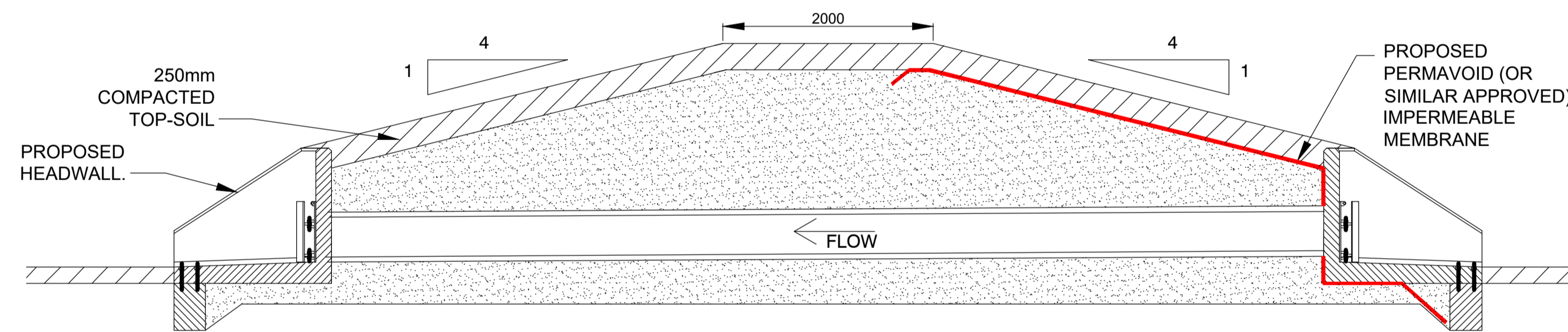


- GENERAL NOTES**
- DO NOT SCALE FROM THIS DRAWING.
  - ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
  - ALL LEVELS ARE IN METRES RELATIVE TO ORDNANCE DATUM NEWLYN UNLESS NOTED OTHERWISE.
  - THIS DRAWING HAS BEEN BASED UPON SURVEY / OS INFORMATION SUPPLIED BY OTHERS, ROYAL HASKONING DHV SHALL 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
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					
REV	DATE	DESCRIPTION	BY	CHK	APP

INFORMATION

CLIENT

PROJECT

TITLE

DETENTION BASIN 4.2 DETAILS

Enhancing Society Together

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

DRAWN	CHECKED	APPROVED
JBW	PV	DJ

DATE	SCALE AT A1	PROJECT NUMBER
MAR-19	AS SHOWN	PB8301

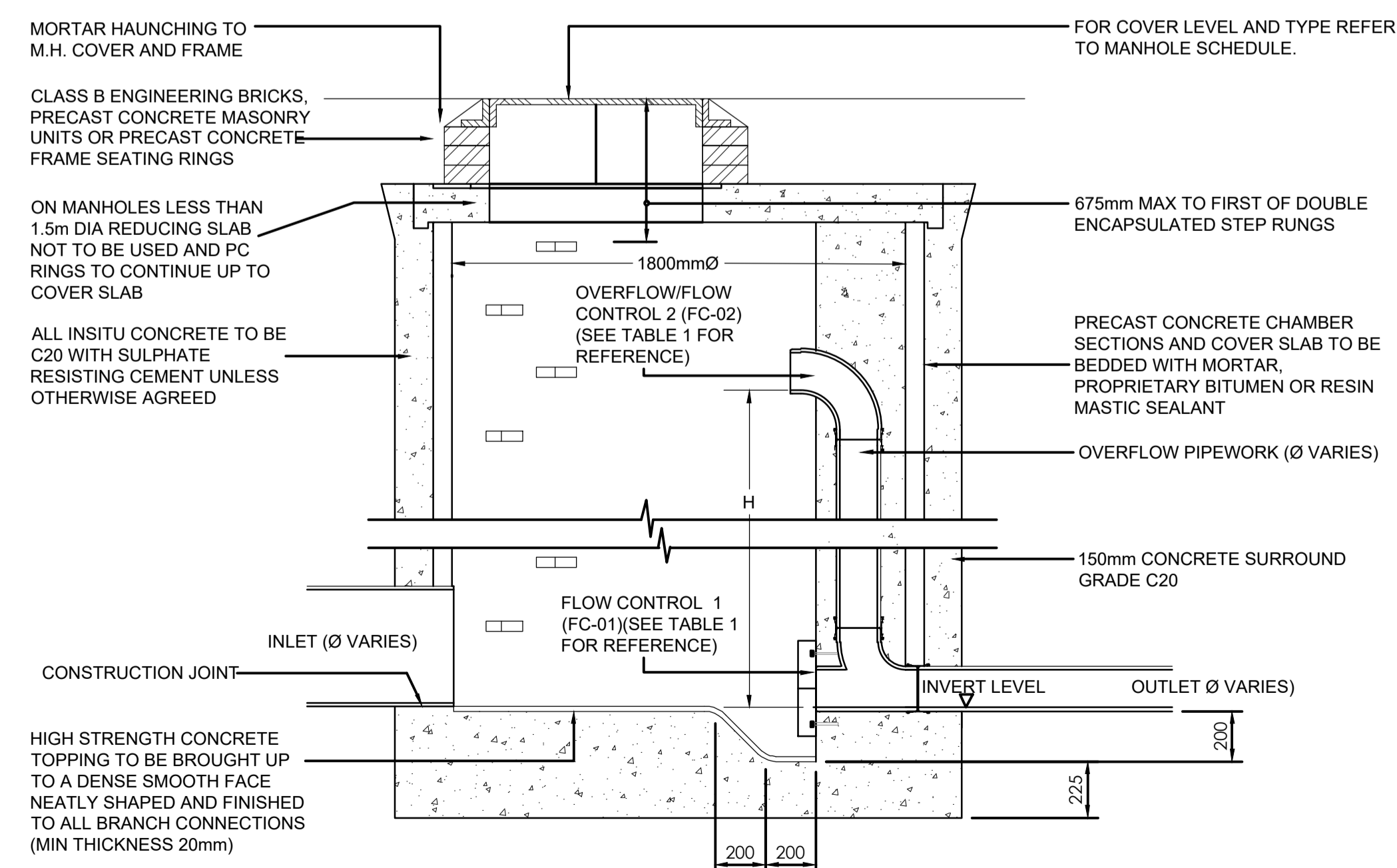
DRAWING No.	REVISION
PB8301-RHD-DE-H1-DR-D-0555	103

Catchment	Greenfield Conditions			Networks														
	Required Discharge rates (lit/s)			Outfall - Flow control system						Discharge rates(Q) Water levels on Detention Basin(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 4	9.80	25.96	36.04	Outfall 4.1	10.007	S4 57FC	86.400	84.700	FCD-01	Hydrobrake	0	3.00	85.963	3.00	86.020	5.90	86.136	
				Outfall 4.2	4.013	S4 36FC	86.200	83.800	FCD-03	Hydrobrake	0	5.00	85.058	10.30	85.525	20.70	85.900	
				Outfall 4.3	2.006	S4 08FC	82.650	80.840	FCD-05	Hydrobrake	0	1.80	81.344	1.80	81.653	8.90	81.865	
				Outfall 4.4					FCD-02	Ø100mm Pipe	750							
				Outfall 4.5							FCD-04	Ø100mm Pipe	1000					
				Outfall 4.6								FCD-06	Ø100mm Pipe	900				
TOTAL											9.80	15.10	35.50					

TABLE 1 - DISCHARGE DETAILS

Detention Basin 4.2			
Depth (m)	Area (m²)	Estimated Volume (m³) (A x H) / 2 x H	Cumulative Volume (m³)
0.150	921.0	139.7	139.7
0.000	295.0	0.0	139.7
0.250	540.3	110.4	250.1
0.500	1060.0	202.2	452.2
0.750	1535.4	338.1	790.3
1.000	2210.2	469.2	1259.5
1.250	2964.5	658.1	1917.6
1.500	3905.2	782.6	2700.2
TOTAL		2724.02	2724.0

TABLE 2 - DETENTION BASIN 4.2 VOLUME DETAILS



SECTION THROUGH FLOW CONTROL MANHOLE SCALE 1:20