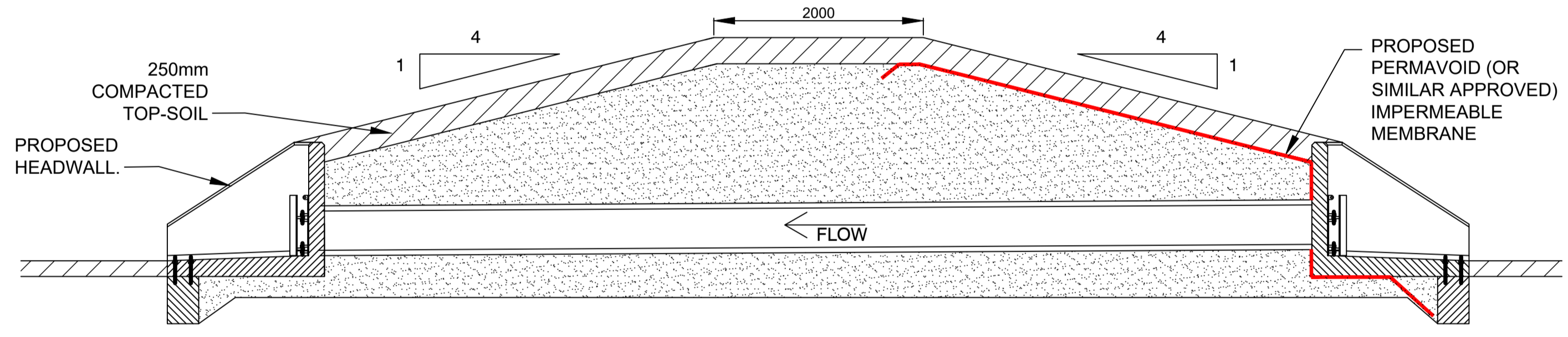


- GENERAL NOTES**
- DO NOT SCALE FROM THIS DRAWING.
 - ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
 - ALL LEVELS ARE IN METRES RELATIVE TO ORDNANCE DATUM NEWLYN UNLESS NOTED OTHERWISE.
 - THIS DRAWING HAS BEEN BASED UPON SURVEY / OS INFORMATION SUPPLIED BY OTHERS, ROYAL HASKONING DHV SHALL NOT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

CLIENT:

PROJECT:

DETENTION BASIN 4.1 DETAILS

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DRAWN	CHECKED	APPROVED
JBW	PV	DJ

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

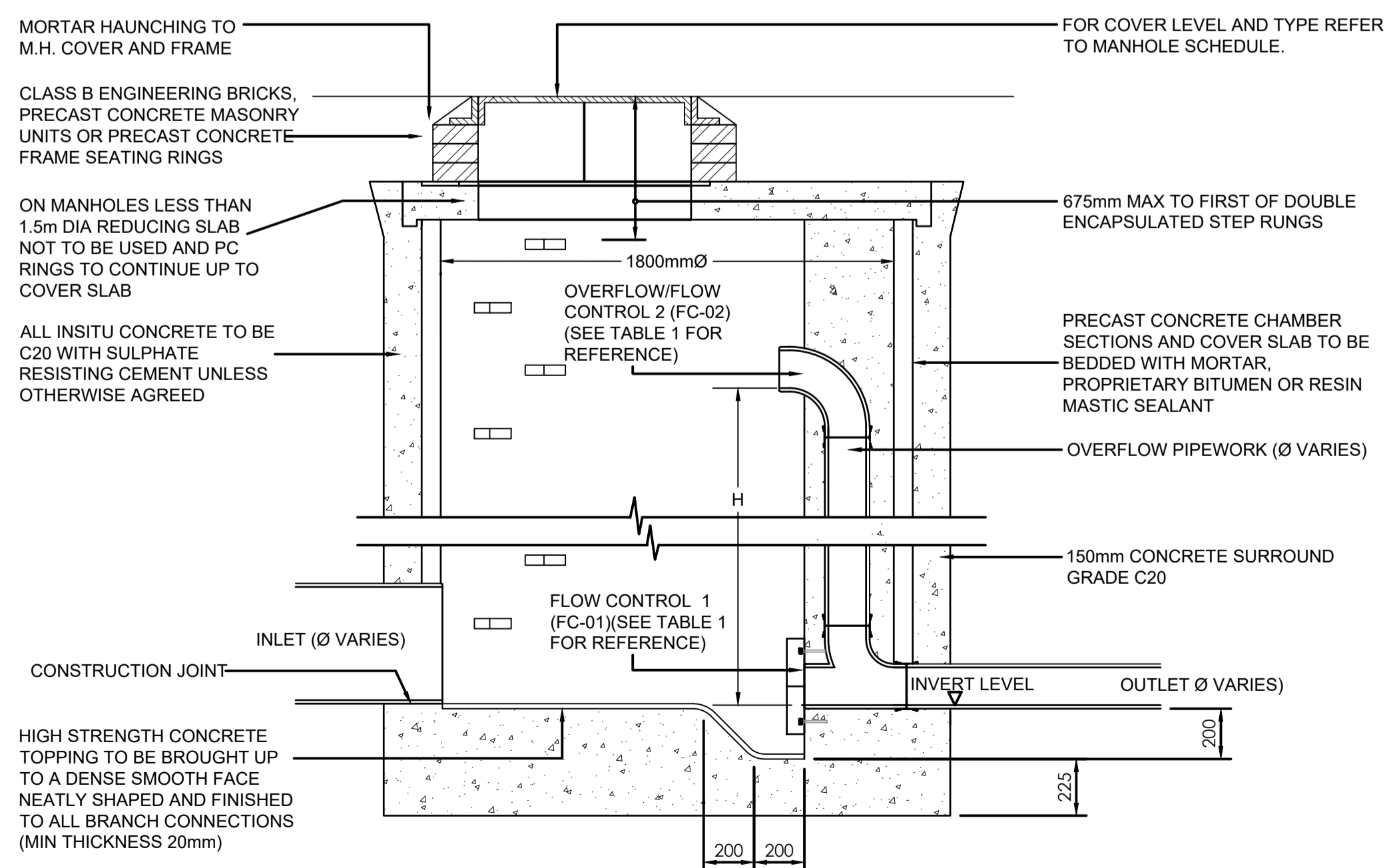
DRAWING No.	REVISION
PB8301-RHD-DE-H1-DR-D-0554	103

Catchment	Greenfield Conditions			Networks													
	Required Discharge rates (IH24)			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	25.98	36.04	Outfall 4.1	10.007	S4 57FC	86.400	84.700	FCO4-01	Hydrobrake	0	3.00	85.963	3.00	86.020	5.90	86.136
				Outfall 4.2	4.013	S4 38FC	86.200	83.800	FCO4-02	Ø100mm Pipe	750	5.00	85.058	10.30	85.525	20.70	85.900
				Outfall 4.3	2.006	S4 08FC	82.850	80.840	FCO4-03	Hydrobrake	0	1.80	81.344	1.80	81.653	8.90	81.865
				FCO4-04	Ø100mm Pipe	900											
				FCO4-05	Hydrobrake	0											
				FCO4-06	Ø100mm Pipe	900											
TOTAL											9.80	15.10	35.50				

TABLE 1 - DISCHARGE DETAILS

Detention Basin 4.1			
Depth(m)	Area(m²)	Estimated Volume(m³) (A1+A2)/2 x H	Cumulative Volume(m³)
-0.150	446.6	66.9	66.9
0.000	710.5	71.0	137.9
0.250	545.0	76.9	214.8
0.500	665.7	151.3	366.1
0.750	1023.4	211.1	577.2
1.000	1388.1	301.4	878.6
1.250	0.0	0.0	878.6
1.500	0.0	0.0	878.6
TOTAL		807.75	807.8

TABLE 2 - DETENTION BASIN 4.1 VOLUME DETAILS



SECTION THROUGH FLOW CONTROL MANHOLE SCALE 1:20