

Project name	Bengal Street, Manchester		
Design note title	Discharge of Condition 5		
Document reference	C-13149-TN-001		
Author	L Pilsbury		
Revision	P2		
Date	1 May 2020	Approved	☐

Bengal Street, Manchester, Reference Planning Application : 120893/FO/2018

With reference to the above planning application this note and the attached information has been prepared to discharge planning condition 5.

The condition reads as follows:

5) Notwithstanding the flood risk assessment and drainage strategy stamped as received by the City Council, as Local Planning Authority, on the 7 August 2018 and the overland flow routing (062731 003 P1) stamped as received by the City Council, as Local Planning Authority, on the 5 September 2018, (a) the development shall not commence until a scheme for the drainage of surface water for the development has been submitted for approval in writing by the City Council as the Local Planning Authority. This shall include:

- Evidence that the drainage system has been designed (unless an area is designated to hold and/or convey water as part of the design) so that flooding does not occur during a 1 in 100 year rainfall event with allowance for climate change in any part of a building;
 - Hydraulic calculation of the proposed drainage system;
 - Construction details of flow control and SuDS elements.
- (b) The phase shall then be constructed in accordance with the approved details, within an agreed timescale.

To enable the above condition to be discharged the following information is attached to this note:

- Drawing BGS-HYD-XX-XX-DR-C-0001 Rev P07 - Drainage Layout
- Drawing BGS-HYD-XX-XX-DR-C-0010 Rev P03 - Standard Details Sheet 1
- Drawing BGS-HYD-XX-XX-DR-C-0011 Rev P03 - Standard Details Sheet 2
- Drawing BGS-HYD-XX-XX-DR-C-0012 Rev P04 - Standard Details Sheet 3
- Drawing BGS-HYD-XX-XX-DR-C-0013 Rev P01 - Standard Details Sheet 4
- Drawing BGS-HYD-XX-XX-DR-C-0500 Rev P02 - Catchment Plan
- Surface water microdrainage Calculations

Surface water drainage Results

In compliance with the approved drainage strategy by Curtins ref: 062731-FRA&DS dated 14th June 2018 the below tables show that the surface water discharge rates achieved through are in compliance.

Storm Event	Allowable Discharge rate l/s	Achieved discharge rate l/s
1 in 1 year	7.1	5.8
1 in 30 year	18.1	14.6
1 in 100 yr +20% CC	23.4	20.6

To achieve the above flows a complex flow control is required. The detail for this is shown on drawing BGS-HYD-XX-XX-DR-C-0012.

The drainage network shall be constructed in accordance with the above information.