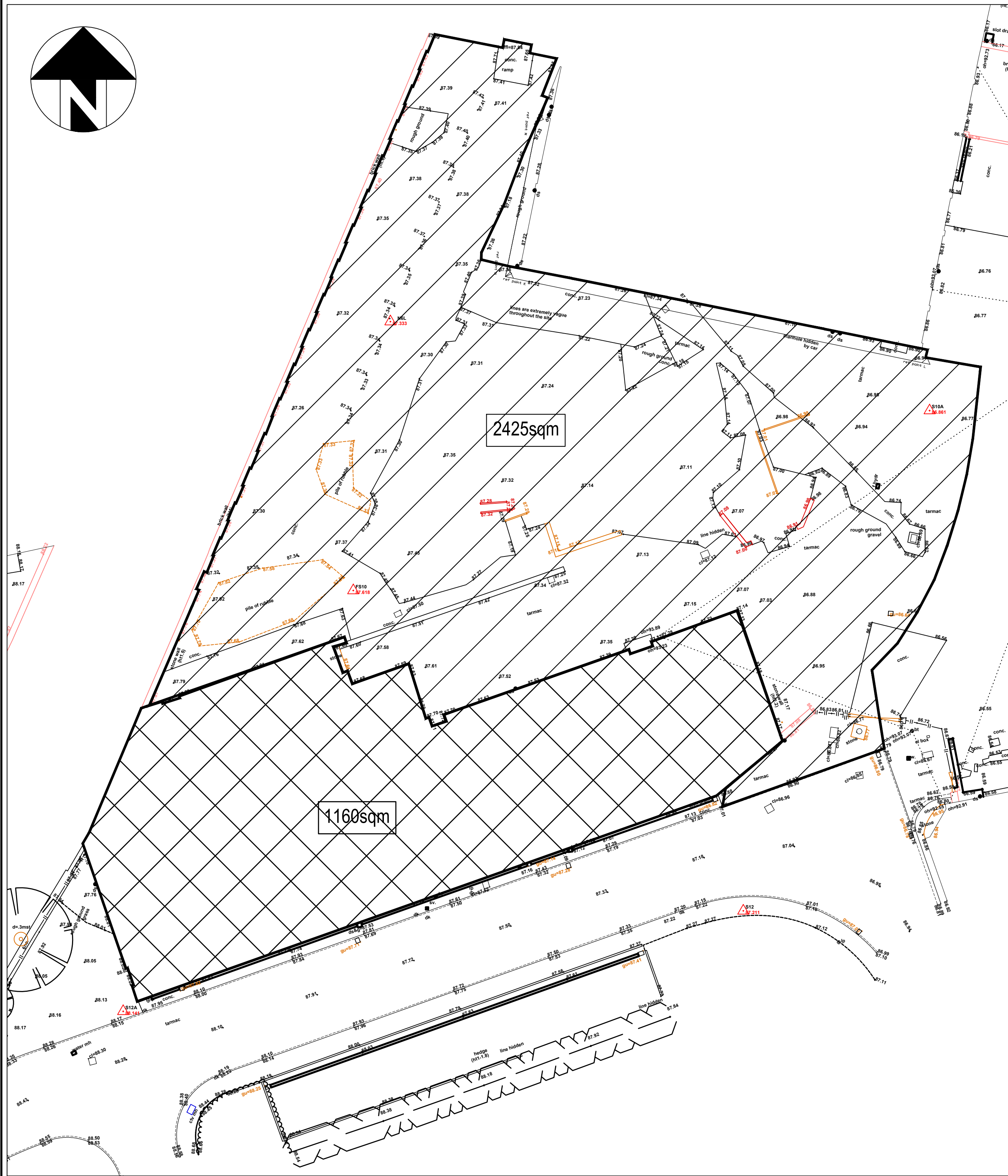




Existing Site Layout - Area of Impermeable Zone

Current impermeable areas based on existing topographical survey are as follows:		
Existing building roof area	=	1160sqm
Existing concrete yard area	=	2425sqm



Proposed Site Layout - Area of Impermeable Zone

Current drainage assessment based on proposed site plan are as follows:		
Proposed building roof and footpath drained area	=	1070sqm
Proposed new car park drained area	=	1870sqm
The building roof and footpath area shall continue to discharge via the existing arrangement.		
It is proposed that the new car park shall drain to the River Colne with a 30% overall reduction in discharge rate.		
Using the Modified Rational Method, the discharge rate is calculated as follows:		
0.187 x (2.78 x 50) = 26 l/s. A 30% reduction of this will give a final discharge rate of 18 l/s.		

- Notes**
1. This drawing is subject to copyright and must not be reproduced, stored or transmitted in any form without prior permission from Mason Clark Associates.
 2. This drawing is not to be scaled. All dimensions are to be checked on site by the contractor. Any discrepancies are to be notified to Mason Clark Associates. Obtain instructions prior to works commencing.
 3. This drawing is to be read in conjunction with all the relevant contract drawings and specifications.
 4. All dimensions are in millimetres and all levels are in metres AOD unless noted otherwise.
 5. All work shall be carried out in accordance with Local Authority, Statutory Authority and Health & Safety Regulations.
 6. Mason Clark Associates are not responsible for determining the appropriate fire period, fire boundary conditions or the associated design of fire protection or inherent fire resistance to any elements of structure, including all frames, posts, beams, joists, roof members and secondary structural elements such as lintels. Refer to the Architect or Project Manager for this information.

P1	Preliminary Issue	BW	22.02.2019
Rev	Details	By	Date
 Hull +44 (0) 1482 345797 Leeds +44 (0) 113 277 9542 York +44 (0) 1904 438035 www.masonclark.co.uk masonclarkassociates civil and structural engineering consultants			
Client: Accumen Architect			
Project: Redevelopment of Milnsbridge, Union Mills, Huddersfield			
Title: Existing and Proposed Surface Water Drainage Assessment			
Drawn: BW	Checked: GS	Date: Feb 2021	
Scale @ A1: 1:250			
Drawing No: 18879-L-DR-200		Rev: P1	