

EXISTING SURFACE WATER DRAINAGE SYSTEM MODELLED USING MICROSOFT DRAINAGE WINDES SUITE - SIMULATION.
 MAXIMUM STORM EVENT: 1 IN 100YR + 40% CLIMATE CHANGE EVENT.

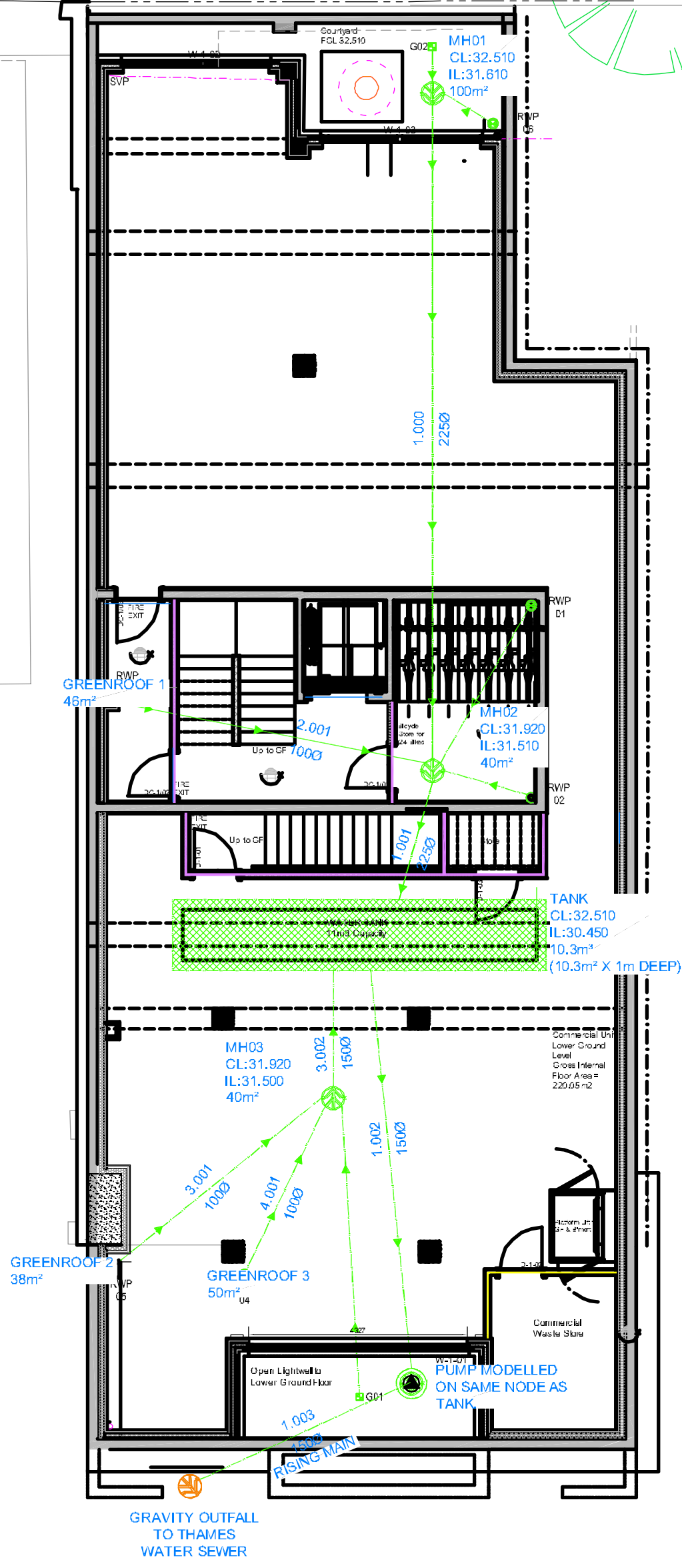
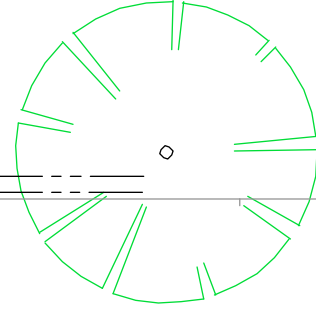
IN ORDER TO CONFIRM ADEQUACY OF EXISTING DRAINAGE SYSTEM, GREENROOFS WERE MODELLED IN TWO SCENARIOS. SCENARIO 1, AS A GREENROOF. SCENARIO 2, ASSUMING GREENROOF IS SATURATED AND NO-LONGER PROVIDES ATTENUATION, SO ASSUMED AS AN IMPERMEABLE AREA.


BOTH SCENARIOS FOR 1 IN 100YR + 40% CLIMATE CHANGE STORM EVENTS RESULTED IN NO FLOODING.

THE EXISTING SURFACE WATER DRAINAGE NETWORK THEREFORE MEETS THE LEAD LOCAL FLOOD AUTHORITY'S REQUIREMENTS.

THE SURFACE WATER PUMP HAS A BACK-UP PUMP IN CASE OF FAILURE. A TELEMETRY ALARM SYSTEM IS ALSO IN PLACE TO ALERT THE MANAGEMENT COMPANY OF PUMP FAILURE.

IN THE EVENT THAT BOTH PUMPS FAIL AND A LARGE STORM EVENT OCCURS WHICH REQUIRES MORE THAN 10.3m³ OF STORAGE VOLUME, SURFACE WATER WILL POOL IN THE BICYCLE STORE AND STAIRWELL (WHERE FINISHED FLOOR LEVELS ARE AROUND 31.920m AOD - NO FLOOD WATERS WOULD BE ABLE TO ESCAPE FROM THE BUILDING).



REV	DATE	BY	DESCRIPTION	CHK	APD
DRAWING STATUS: FOR INFORMATION					
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 Unit 23, The Maltings, Stanstead Abbots, Hertfordshire, SG12 8HG Tel: 01920 871777 www.eastp.co.uk					
CLIENT:			REDDINGTON CONSTRUCTION LTD		
ARCHITECT:					
PROJECT:					
52 HOLMES ROAD, LONDON BOROUGH OF CAMDEN					
TITLE:					
INSTALLED SURFACE WATER DRAINAGE NETWORK MODEL DETAILS					
SCALE: A3: 1:100		DESIGN-DRAWN: MD		DATE: 25.02.2020	
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