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

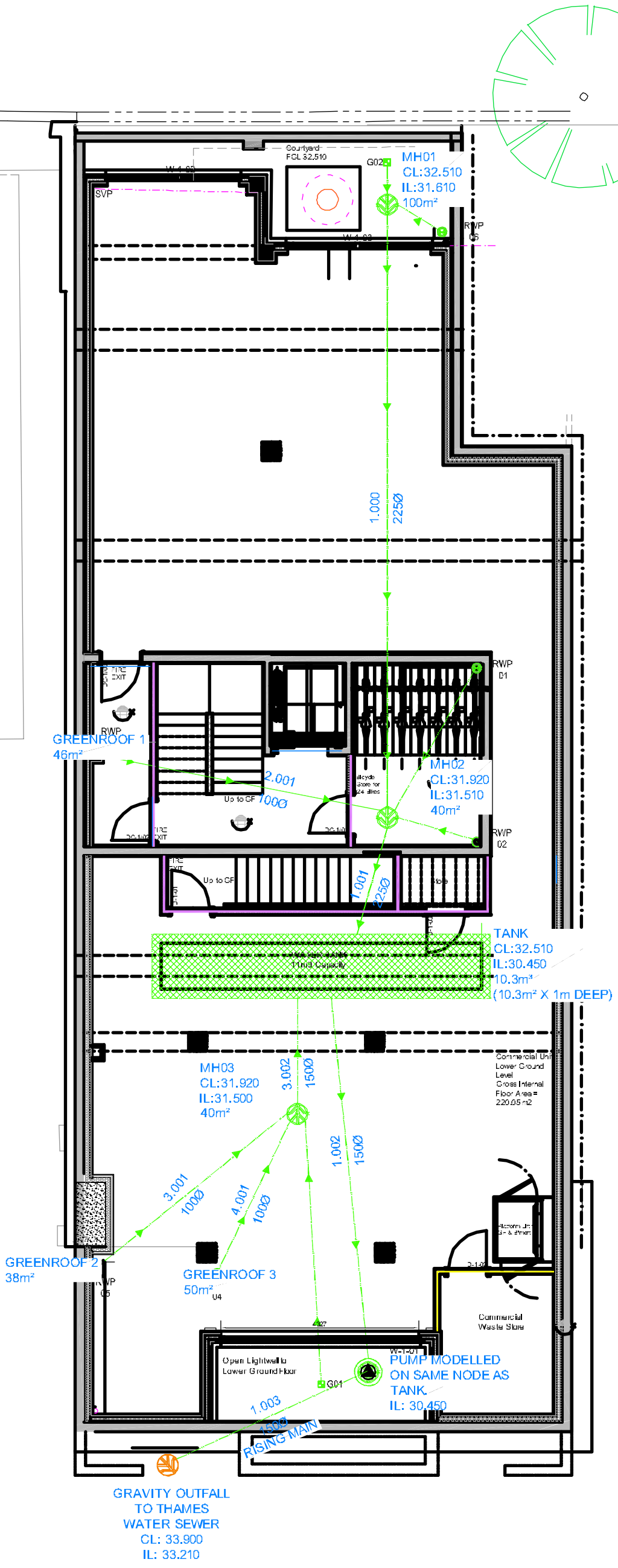
IN ORDER TO CONFIRM ADEQUACY OF EXISTING DRAINAGE SYSTEM, GREENROOFS WERE MODELLED IN TWO SCENARIOS. SCENARIO 1, AS A GREENROOF. SCENARIO 2, ASSUMING GREENROOF IS SATURATED AND NO-LONGER PROVIDES ATTENUATION, SO ASSUMED AS AN IMPERMEABLE AREA.

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 31.920mAOD - NO FLOOD WATERS WOULD BE ABLE TO ESCAPE FROM THE BUILDING.



REV	DATE	BY	DESCRIPTION	CHK	APD

DRAWING STATUS:
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CLIENT:
REDDINGTON CONSTRUCTION LTD

ARCHITECT:

PROJECT:
52 HOLMES ROAD,
LONDON BOROUGH OF CAMDEN

TITLE:
INSTALLED SURFACE WATER DRAINAGE NETWORK MODEL DETAILS

SCALE @ A3:	DESIGN–DRAWN:	DATE:
1:100	MD	25.02.2020

PROJECT No:	DRAWING No:
2544	SK01 REV A