

# QUEEN STREET BUILDING

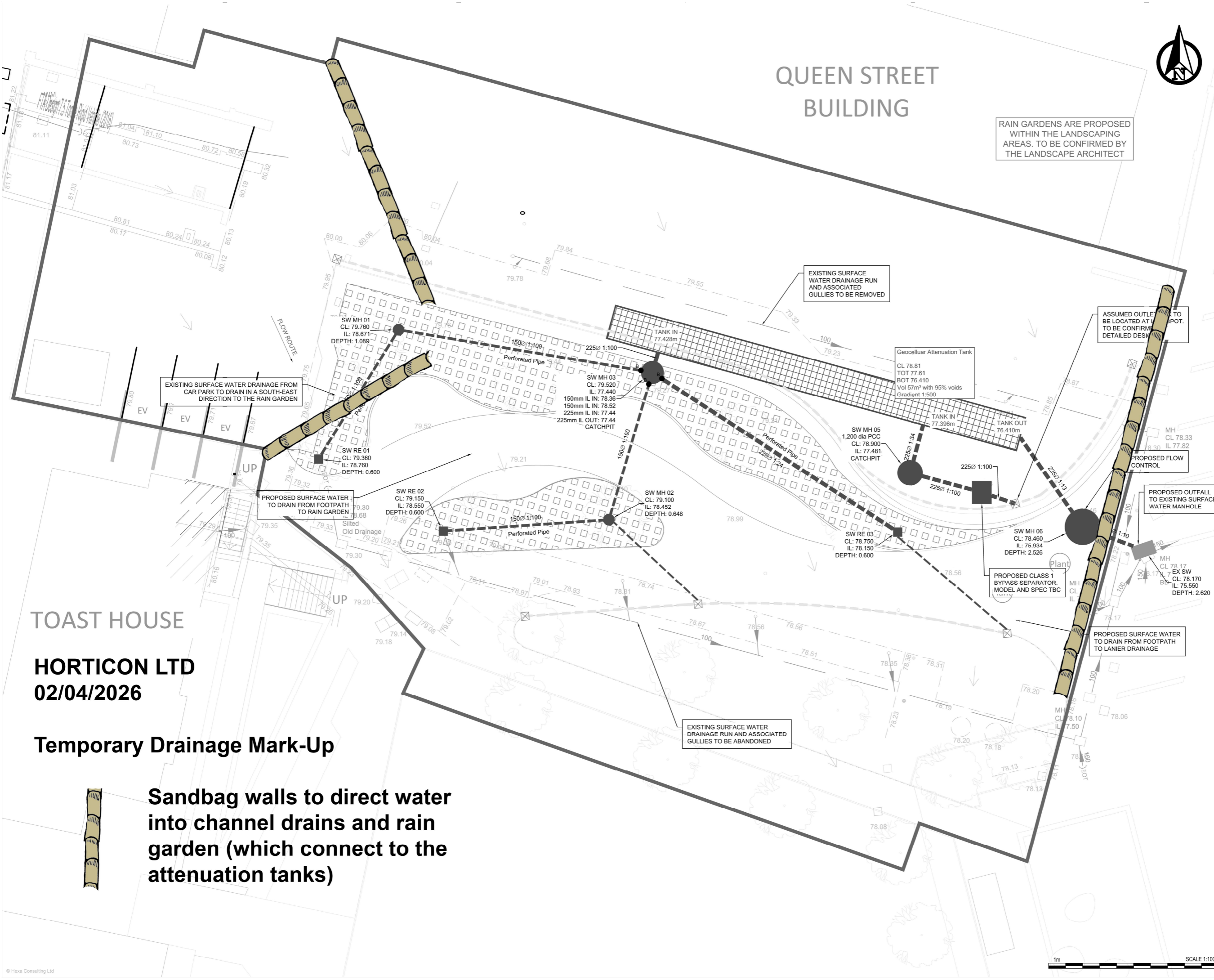
RAIN GARDENS ARE PROPOSED WITHIN THE LANDSCAPING AREAS. TO BE CONFIRMED BY THE LANDSCAPE ARCHITECT



- Notes**
1. Do not scale this drawing. All dimensions must be checked/verified on site. If in doubt ask.
  2. This drawing is to be read in conjunction with all relevant architects, engineers and specialists drawings and specifications.
  3. All dimensions in meters unless noted otherwise. All levels in metres unless noted otherwise.
  4. Any discrepancies noted on site are to be reported to the engineer immediately.
  5. This drawing should be printed and read in colour.

- Design Notes**
1. DESIGN ASSUMES SURFACE WATER FLOWS RESTRICTED TO EXISTING 1 IN 1 YEAR BROWNFIELD RUN-OFF RATES WITH 50% BETTERMENT AND USING THE MODIFIED RATIONAL METHOD:
    - EXISTING DISCHARGE RATE: BASED ON 53.7mm/hr RAINFALL INTENSITY =  $2.78 \times 0.975 \times 53.7 \times 0.177 = 25.8\text{ls}$
    - PROPOSED DISCHARGE RATE BASED ON 50% BETTERMENT =  $25.8\text{ls} \times 50\% = 12.9\text{ls}$
  2. DRAINAGE LAYOUT SHOWN IN ABEYANCE SUBJECT TO RECEIPT OF PROPOSED LEVELS DESIGN.

- Legend**
- RED LINE BOUNDARY
  - PROPOSED SURFACE WATER
  - PROPOSED LEANER DRAINAGE
  - EXISTING SURFACE WATER
  - PROPOSED ATTENUATION TANK
  - PROPOSED BACKDROP
  - PROPOSED RAIN GARDEN AS PER LANDSCAPE ARCHITECTS DETAIL
  - PROPOSED 150mm PERFORATED PIPE (WRAPPED IN GEOTEXTILE MEMBRANE)
  - PROPOSED LINEAR DRAINAGE SUMP AND ACCESS
  - OVERLAND FLOW ROUTING



EXISTING SURFACE WATER DRAINAGE FROM CAR PARK TO DRAIN IN A SOUTH-EAST DIRECTION TO THE RAIN GARDEN

EXISTING SURFACE WATER DRAINAGE RUN AND ASSOCIATED GULLIES TO BE REMOVED

ASSUMED OUTLET TO BE LOCATED AT THIS SPOT. TO BE CONFIRMED IN DETAILED DESIGN

PROPOSED SURFACE WATER TO DRAIN FROM FOOTPATH TO RAIN GARDEN

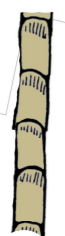
EXISTING SURFACE WATER DRAINAGE RUN AND ASSOCIATED GULLIES TO BE ABANDONED

PROPOSED SURFACE WATER TO DRAIN FROM FOOTPATH TO LANIER DRAINAGE

TOAST HOUSE

**HORTICON LTD**  
02/04/2026

**Temporary Drainage Mark-Up**



**Sandbag walls to direct water into channel drains and rain garden (which connect to the attenuation tanks)**

P02	19.02.26	PRELIMINARY ISSUE	SWM	KMJ
P01	17.12.25	PRELIMINARY ISSUE	SWM	KMJ
Rev	Date	Details of Issue	Drawn	Rwd

Issues & Revisions

Consultant



Client

UNIVERSITY OF HUDDERSFIELD

Project Title

SITE 3 - FORMER FAITH BUILDING

Drawing Title

PROPOSED DRAINAGE

Drawn By	SWM	Reviewed By	KMJ
Hexa Ref	700342	Scale at A1	1:100

Purpose of Issue  
**PRELIMINARY**

Status  
**S1**

Project - Originator - Zone - Level - Type - Role - Number  
700324-HEX-XX-XX-D-C-9200

Revision  
P02

