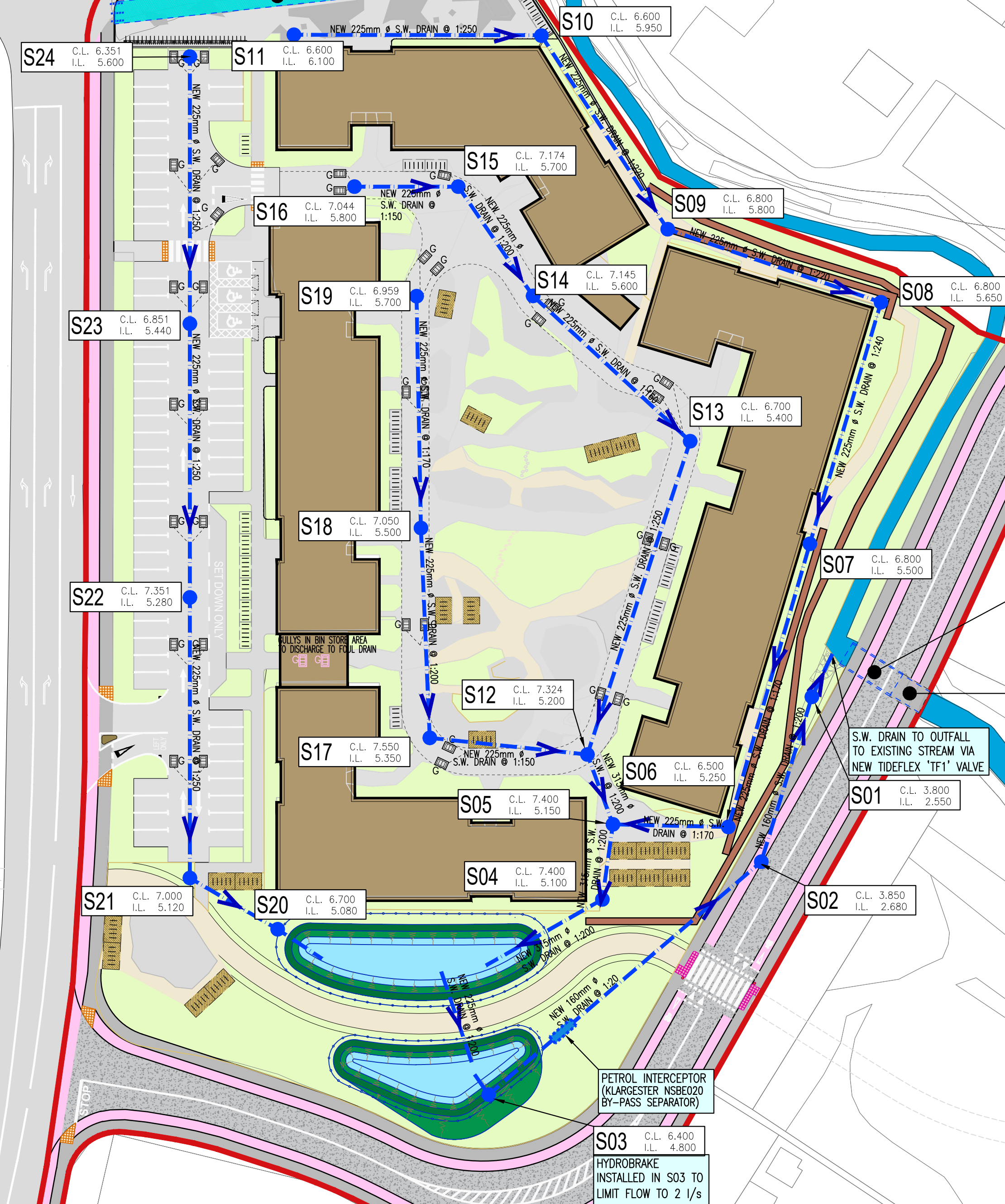
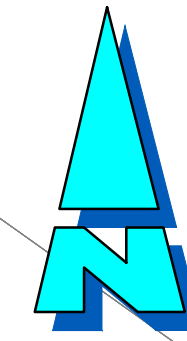


STREAM TO BE CULVERTED  
(3.2m wide x 1.2m dp.) UNDER  
PROPOSED NEW PLAZA AREA



EXISTING STREAM  
CULVERT UNDER  
EXISTING ROAD

EXISTING STREAM CULVERT  
UNDER ROAD TO BE  
EXTENDED TO SUIT  
PROPOSED WIDENED ACCESS  
ROAD & NEW FOOTPATH

S.W. DRAIN TO OUTFALL  
TO EXISTING STREAM VIA  
NEW TIDEFLEX 'IF1' VALVE

#### Health and Safety:

THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS, THE SPECIFICATION AND THE SAFETY AND HEALTH PLAN.

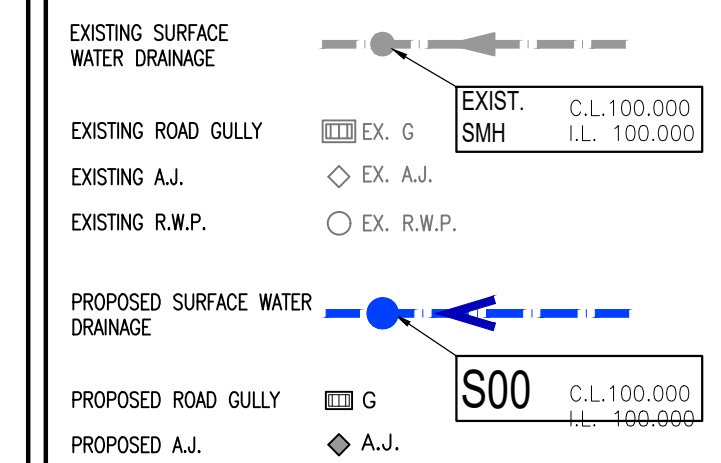
THE APPOINTMENT OF THE PROJECT SUPERVISOR DESIGN PROCESS IS THE CLIENT'S RESPONSIBILITY.

TEMPORARY WORKS PROPOSALS AND/OR METHOD STATEMENTS TO BE SUBMITTED TO THE PSP AND THE PSCS FOR WORKS WHICH INVOLVE PARTICULAR RISKS.

#### Notes:

- NO PART OF THIS DRAWING MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR STORED IN ANY RETRIEVAL SYSTEM OF ANY NATURE WITHOUT THE WRITTEN PERMISSION OF MALONE O'REGAN CONSULTING ENGINEERS AS COPYRIGHT HOLDER EXCEPT AS AGREED FOR USE ON THE PROJECT FOR WHICH THE DRAWING WAS ORIGINALLY ISSUED.
- THE APPOINTMENT OF THE PROJECT SUPERVISOR DESIGN PROCESS IS THE CLIENT'S RESPONSIBILITY.
- ALL DIMENSIONS IN mm UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL CHECK ALL DIMENSIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. DISCREPANCIES SHALL BE REPORTED TO THIS OFFICE IN WRITING.
- THIS DRAWING TO BE READ IN ACCORDANCE WITH ALL RELEVANT ENGINEERS' DRAWINGS AND SPECIFICATIONS.

#### DRAINAGE - LEGEND



IRISH WATER STANDARD DETAILS AND CODES OF PRACTICE:

ALL OF THE SITE DRAINAGE WORKS SHOULD BE CARRIED OUT IN ACCORDANCE WITH IRISH WATER'S (IW) 'WASTEWATER INFRASTRUCTURE STANDARD DETAILS' AND 'CODE OF PRACTICE FOR WASTEWATER INFRASTRUCTURE'.

#### PIPE MATERIALS:

- SERVICE CONNECTIONS FROM DWELLING TO BE 100mm Ø UNPLASTICISED PVC IN ACCORDANCE WITH SECTION 3.13 OF IW CODE PRACTICE.
- SITE SEWER TO BE UN-PLASTICISED PVC IN ACCORDANCE WITH SECTION 3.13 OF THE IW CODE OF PRACTICE.
  - STIFFNESS CLASS - 8kN/m<sup>2</sup>
  - JETTING RESISTANCE - 2600psi

#### TESTING:

- SITE SEWER AND MANHOLES TO BE TESTED IN ACCORDANCE WITH SECTION 4.10 OF IW CODE OF PRACTICE.
- CCTV AND MANHOLE CONDITION SURVEYS TO BE CARRIED OUT IN ACCORDANCE WITH SECTION 1.9 OF IW CODE OF PRACTICE IN ADVANCE OF THE DEFECTS LIABILITY PERIOD.

NOTE: ALL MANHOLE COVER LEVELS TO BE CHECKED IN SITU TO ENSURE THAT THEY ARE LEVEL WITH THE SURROUNDING FINISHED SURFACES.

FOR DETAILS OF  
SuDS STRATEGY  
LAYOUT, REFER  
TO Dwg. No. P854

P1	PLANNING APPLICATION	09.02/'24	GL	CC	COB
P	PLANNING APPLICATION	20.09/'23	GL	JK	COB
Rev.	Description	Date	Drawn	Chkd	Appr

THIS DRAWING TO BE USED FOR  
PLANNING PURPOSES ONLY

**MALONE O'REGAN**  
CONSULTING ENGINEERS  
3-4 Canada Street  
Waterford  
Co. Waterford.  
X91 V52K  
Tel: +353 51 876 855  
Email: waterford@moroe.ie  
Web: www.maloneoregan.com

Offices also in:  
DUBLIN : Tel: +353 1 260 2655 Email: dublin@moroe.ie  
GALWAY: Tel: +353 91 531 069 Email: galway@moroe.ie  
LONDON: Tel: +44 208 5281685 Email: london@moroe.ie

Client: **NOEL FRISBY CONSTRUCTION LTD.**

Job: **STUDENT ACCOMMODATION AT  
CORK ROAD, WATERFORD.**

Drawing: **GENERAL ARRANGEMENT –  
SURFACE WATER DRAINAGE LAYOUT**

Job No	Dwg No	Stage	Revision	Scale
W22076	P853	PL	P1	A1 1:500 A3 1:1,000