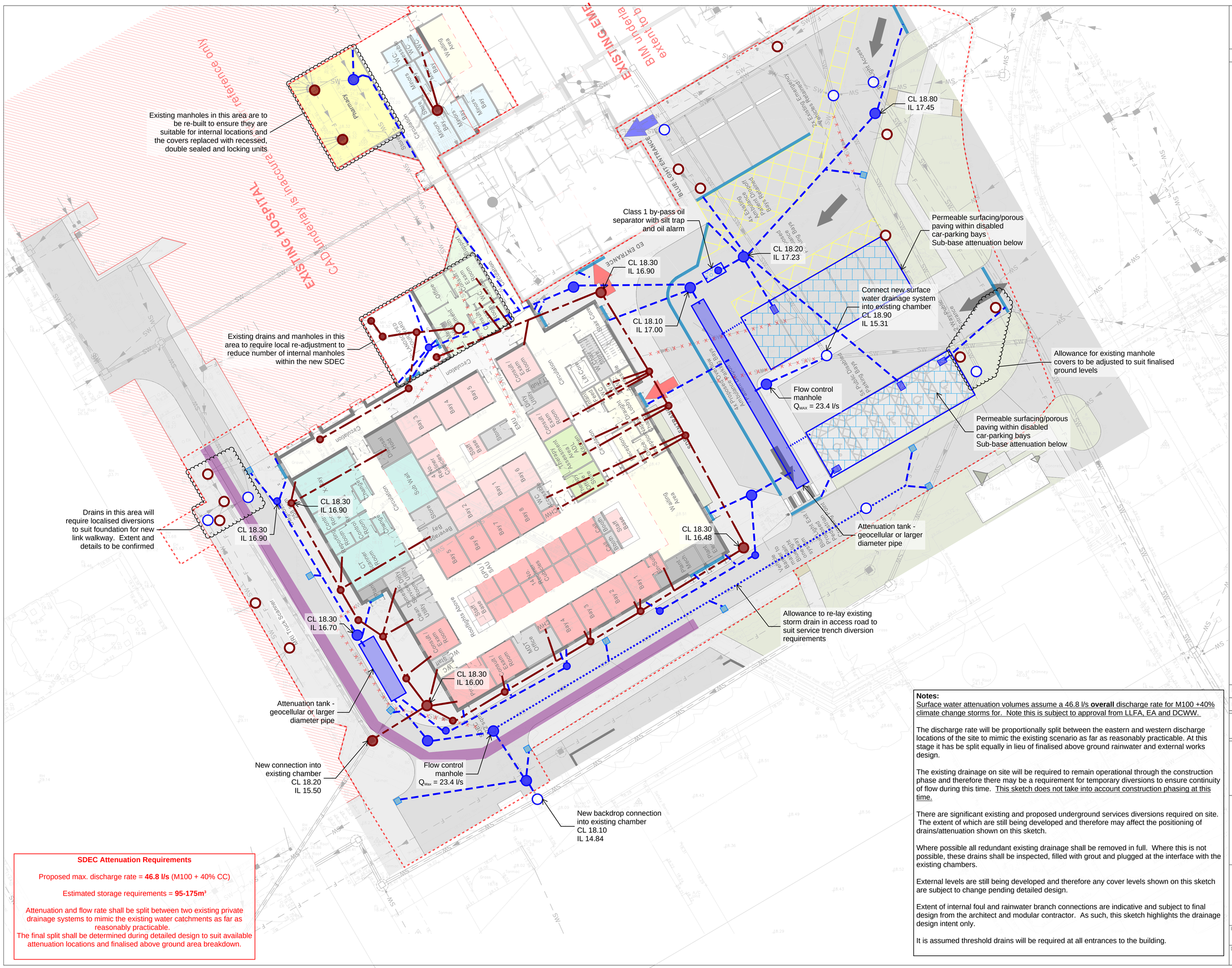

SDEC Attenuation Requirements

Proposed max. discharge rate = **46.8 l/s** (M100 + 40% CC)

Estimated storage requirements = **95-175m³**

Attenuation and flow rate shall be split between two existing private drainage systems to mimic the existing water catchments as far as reasonably practicable.
The final split shall be determined during detailed design to suit available attenuation locations and finalised above ground area breakdown.

Notes:
Surface water attenuation volumes assume a 46.8 l/s **overall** discharge rate for M100 +40% climate change storms for. Note this is subject to approval from LLFA, EA and DCWW.

The discharge rate will be proportionally split between the eastern and western discharge locations of the site to mimic the existing scenario as far as reasonably practicable. At this stage it has be split equally in lieu of finalised above ground rainwater and external works design.

The existing drainage on site will be required to remain operational through the construction phase and therefore there may be a requirement for temporary diversions to ensure continuity of flow during this time. This sketch does not take into account construction phasing at this time.

There are significant existing and proposed underground services diversions required on site. The extent of which are still being developed and therefore may affect the positioning of drains/attenuation shown on this sketch.

Where possible all redundant existing drainage shall be removed in full. Where this is not possible, these drains shall be inspected, filled with grout and plugged at the interface with the existing chambers.

External levels are still being developed and therefore any cover levels shown on this sketch are subject to change pending detailed design.

Extent of internal foul and rainwater branch connections are indicative and subject to final design from the architect and modular contractor. As such, this sketch highlights the drainage design intent only.

It is assumed threshold drains will be required at all entrances to the building.

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Notes

1. DO NOT SCALE FROM THIS DRAWING.
2. ALL DIMENSIONS ARE MILLIMETRES U.N.O.
3. ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM U.N.O.
4. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
5. THIS SKETCH HAS BEEN BASED ON SEVERAL SURVEY DRAWINGS INCLUDING:
   - 2518_TopographicalSurvey_Provisional Issue [Dated 15/12/2020]
   - 2518_Services Survey_Provisional Issue [Dated 07/12/2020]
   - COCH-Services Master Drawing_October 2014 updated with JDSC extension [Received 08/12/2020]
   - CCED-FGM-XX-FN-DR-C-0001 S4 P05 Proposed Drainage Layout [Dated 22/08/2019]
6. RAMBOLL ACCEPT NO LIABILITY FOR THE ACCURACY OF INFORMATION PROVIDED TO THE DESIGN TEAM BY THIRD PARTIES
7. ANY DISCREPANCIES ARE TO BE DRAWN TO THE ATTENUATION OF THE ENGINEER IMMEDIATELY

THIS IS A COLOUR SKETCH

KEY

- Existing drain to be removed
- Existing foul drain & manhole (FW)
- Existing storm drain & manhole (SW)
- Works required to existing chamber Foul / Surface Water
- Proposed storm drain & manhole
- Proposed foul drain & manhole
- Proposed permeable surfacing / sub-base attenuation
- Proposed underground tank Large diameter pipe or geocellular crate
- Proposed channel drain
- Proposed road gully
- Proposed oil separator
- Indicative red-line boundary
- Indicative service trench (by others)
- Indicative manhole depths (CL 18.30 IL 16.90)

Rev	Description	Date	By / Chk	App
P01	PRELIMINARY	25/01 2021	GS -	-

SKETCH

COUNTESS OF CHESTER
SAME DAY EMERGENCY CARE

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PROPOSED BELOW GROUND DRAINAGE STRATEGY

Project No:	Scale (@A1):	Drawn:	Date:
1620011132	1:150	GS	JAN 2021

Drawing No: CCSDEC-RAM-ZZ-XX-SK-C-0006
Rev: P01