ALL DIMENSIONS TO BE CHECKED BY CONTRACTOR

All existing sewers on / nearby the site to be CCTV surveyed to check for third party connections to determine potential diversion / abandonment / removal. Invert levels to be determined prior to detailed design / site works commencing.

Works undertaken prior to receipt of planning approval and legal agreements approvals are done so at contractors own risk.

Approval required from the Sewerage Undertaker for any new connection under S106 of the Water Industry Act 1991, prior to commencing works to public sewer.

For internal SVP/RWP locations/setting out refer to Architects Details

All existing drainage and associated infrastructure based on:

- Topographical Survey by Survey & Engineeing Projects (drawing ref S21439-T, April 2021)
- United Utilities Sewer Records (dated 08/02/203)

NOTE:
THIS DWG IS PRELIMINARY DESIGN STATUS. PENDING PLANNING AUTHORITY APPROVAL. THEREFORE FINAL DESIGN MAY BE SUBJECT TO ALTERATION / CHANGE AT DETAILED DESIGN.

Key

- Existing adopted combined water sewer
- Proposed surface water sewer
- Proposed foul water sewer
- Proposed combined water sewer
- YG — Proposed Surface Water gully
- YG — Proposed foul gully (bin store)
- Proposed cellular attenuation
- Proposed surface water flow control chamber
- Proposed foul water inspection chamber (nom 450Ø)
- FFL XXX.XXX — Finished floor level
- Ⓛ — Part M Level access
- + 61.35 — Finished external level
- + ex. 61.32 — Existing external level



Assumptions & design principles

Finished floor levels

- Finished floor levels +/- 450mm at detailed design.

Retaining features

- Retaining less than 450mm not shown.

Combined water drainage

- Combined water drainage connection into existing United Utilities network be agreed by United Utilities under a Section 106 Agreement.

Surface Water drainage

- Surface water drainage systems designed to accommodate 100 year + 40% climate change storm events.
- As per the Phase 2 Geo-Environmental & Geotechnical Report carried out by Curtins (Ref:077873-CUR-00-XX-RP-GE-037-V01, 30th March 2022), discharge of surface water is highly unlikley by means of soakaway due to the nature of the existing ground conditions encountered (cohesive, Glacial Till).
- Surface Water Sewer will be at a restricted rate of 2.0 l/s.
- Attenuation to be provided by cellular storage.

Foul water drainage

- Foul water drainage connection to connect into combined water sewer.

General Drainage

- All proposed surface/foul/combined water drainage levels are indicative until the location, size & levels of the existing United Utilities sewer has been confirmed by detailed survey.

Existing brownfield discharge rate using the Modified Rationale Method:

Existing rate Q (l/s) = 2.78 x Impermeable Area (ha) x 50

Existing impermeable area 0.032 ha.

2.78 x 0.032ha x 50 = 4.45 l/s

50% betterment as required by LLFA = 2.23 l/s

Proposed discharge rate = 2.0 l/s

REV	AMENDMENT	BY	DATE
P0	First Issue	RM	10.03.2023

PROJECT EXECUTION CLASS: N/A

All materials supplied in relations to those specified on this drawing are to be CE marked in accordance with the European Union Declaration of conformity

PURPOSE OF ISSUE

PRELIMINARY

COUCH
Consulting Engineers
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CLIENT: SOUTHWAY HOUSING TRUST

PROJECT: MINDEN CLOSE

DRAWING TITLE: DRAINAGE STRATEGY

SHEET SIZE	SCALE	DATE	DRAWN	CHECKED	STATUS
A1	1:100	MAR' 2023	RM	ME	-

CCE PROJECT No.	DRAWING No.	REV
8395	100	P0

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