

GENERAL NOTES

All Engineering drawings are to be read with the specification and with all relevant Architect's and Service Engineer's drawings and specifications.

Any discrepancies from the information indicated on these drawings shall immediately be brought to the attention of the Civil Engineer.

Do not scale from any Civil Engineer's drawing. All dimensions are in millimetres and levels in metres.

All work to be carried out in accordance with the requirements BS 8000 Workmanship on building sites.

CHECKING AND SUBMISSIONS

The Civil Engineer requires either an electronic copy or two paper copies of method statements for activities listed in the Health and Safety table.

The Contractor is responsible for ensuring the design of sub-contractor design elements is submitted to Building Control and achieves Building Control approval.

HEALTH AND SAFETY

The key construction stages health and safety hazards on this project are:

ACTIVITY	HAZARD
Excavation of foundation, pits and trenches	1. Stability of deep excavations. 2. Known/unknown live services.
	3. Water ingress into excavations.

CIVILS

DRAINAGE

All drainage design and installation to be carried out in accordance with the following:

- BS EN 752: Drain and sewer systems outside buildings.
- BS EN 12056: Gravity drainage systems inside buildings.
- Building Regulations - Part H.
- Sewer Sector Guidance Appendix C: Design and Construction Guidance for foul and surface water sewers offered for adoption.

Site surface water drainage has been designed based on the levels and grades shown on the Architect's drawings.

MANHOLES & INSPECTION CHAMBERS

Concrete manholes / inspection chambers by Marshalls Civils and Drainage, or similar approved.

Polypropylene inspection chambers by Polypipe, or similar approved.

PIPES

Pipes to be cast iron internally and vitrified clay externally as R12 specification.

All pipes with cover more than 600 to be laid in Class S surround in external areas; for cover less than 600 pipes to be laid in Class Z surround. If pipework is below an RC slab, Class Y or W surround should be used.

The initial below ground lateral/branch pipes shall be nominal 100mm diameter and laid no flatter than 1:40 for foul and 1:80 for surface water uno. Where necessary, to avoid clashes, lateral connections may be laid to nominal falls and ramp at 45 degrees to manhole invert or pipe junction.

Selected fill for backfilling shall consist of uniform readily compactible as-dug material, free from vegetable matter, rubbish, frozen soil and material retained on a 40mm sieve.

Pipes passing through foundations to be sleeved through foundation with 50 compressible material taped and boxed out in plywood

Rocker pipe lengths to be maximum 600mm

All bends in pipework shall be long radius.

Where branch pipes are to connect directly onto a main run provide above ground rodding access at head of branch run and:

When connecting 100 or 150 diameter branches to a main run of 300 diameter or larger use a preformed saddle fitting.

Otherwise connections shall be made with a preformed oblique junction swept in the direction of flow.

All gullies to be trapped and roddable.

Proposed basement gully drains to be laid no flatter than 1:80.

DISUSED PIPEWORK

Confirm pipework is no longer in use before abandoning.

All pipework within new building envelope to be abandoned, should to be grouted up with concrete at both ends.

CONSTRUCTION

The Contractor shall allow for the temporary and permanent support and diversion works as necessary, to all existing services to the satisfaction of the Public Utilities.

The Contractor should carry out a drainage CCTV survey after completion of private pipework to demonstrate that the constructed drainage is in accordance with the design and specification clause R12/971. For adoptable pipework allow for drainage CCTV survey by others in accordance with specification clause R12/976.

SETTING OUT

All levels and dimensions shall be verified on site before the start of any works.

All FWP/RWP and gully locations are shown as indicative only. Architect to confirm all: Cover levels, FWP/RWP & gully locations.

The Contractor is to co-ordinate manhole positions and levels with the Architect's drawing requirements in hard landscaped areas to tie-in with the finishes proposed.

Co-ordinates given are guide positions of the centre of cover opening. Positions of inspection chambers may require manual adjustment on site due to confinement and congestion of pipe runs.

The Contractor is to position cover slabs/manhole openings to allow access over benching from the bottom of ladder/step iron /rungs.

Manhole covers shall be set to same level and fall as adjacent ground.

Manhole to manhole runs should be kept straight and not be extended in length without reference to the Civil Engineer.

SERVICES

All connections to existing drainage to be confirmed on receipt of condition survey.

The location, size and depth of all existing drains/sewers and services shall be established by the Contractor before the start of works on site.

Details of existing and public sewers to be taken from relevant Asset Maps, Water Authority, CCTV & site surveys.

CDP DESIGN ITEMS

Civils

- Grease management design

P01	07.07.25	SE	KN	Issued for Stage 3
Rev.	Date	Dwn.	Eng.	Amendment

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CIVILS GENERAL NOTES

Status
FOR STAGE 3
NOT FOR CONSTRUCTION

Drawn	SE	Eng.	KN
Scales	N/A at A1		
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