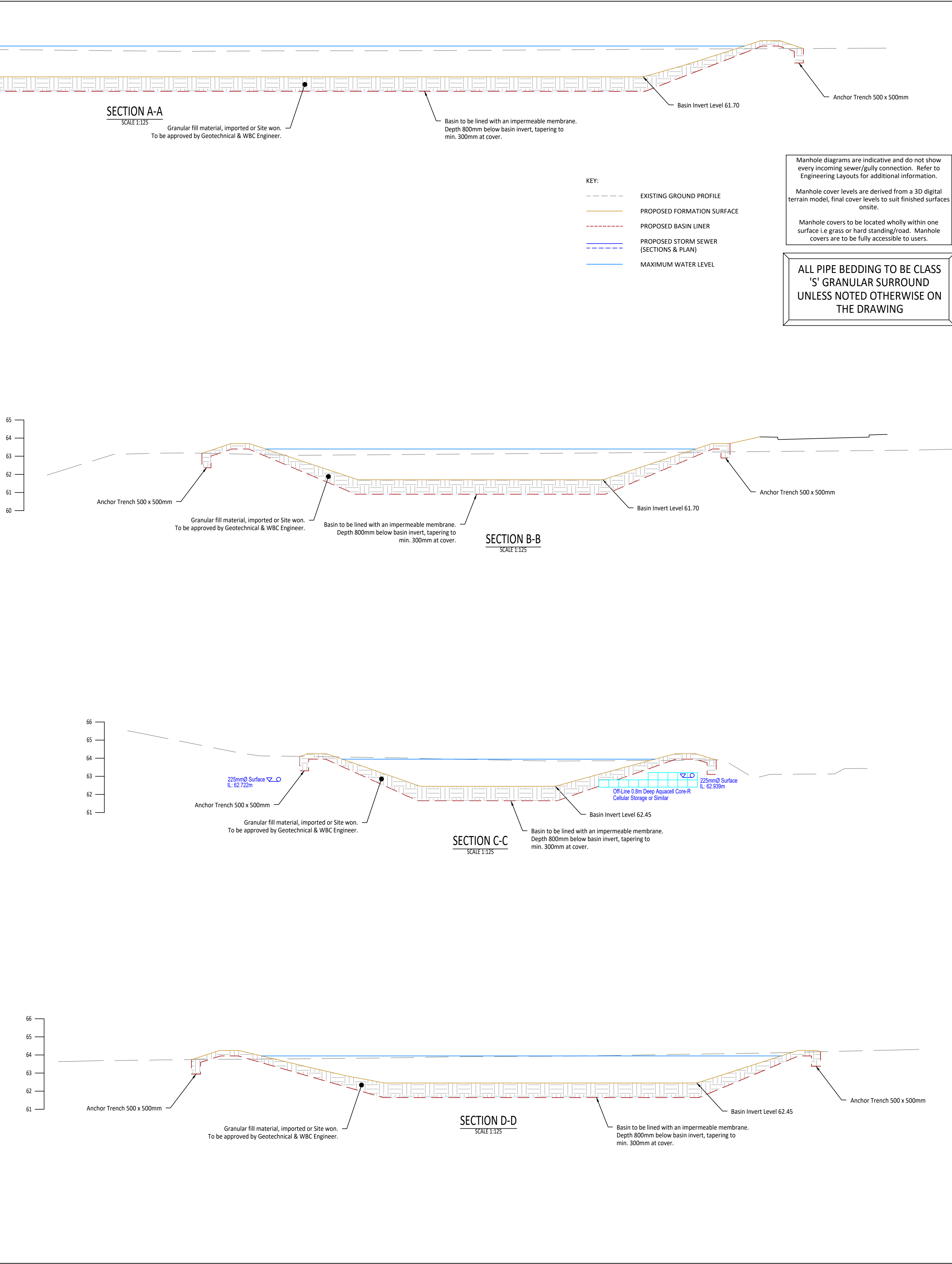
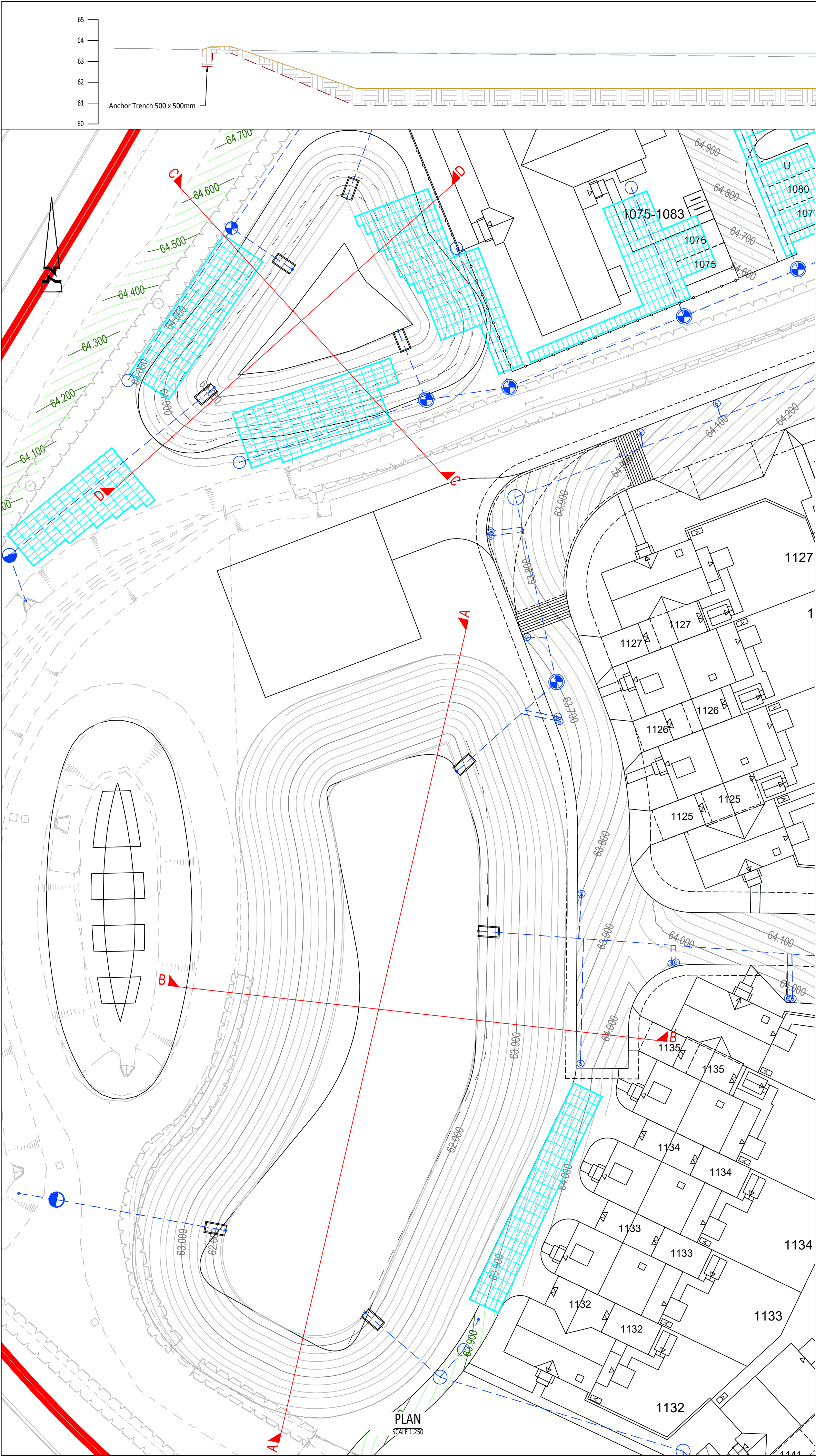




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DRAINAGE NOTES:

- Refer to all other Project Drawings and supporting notes.
- All adoptable drainage works to be constructed as detailed in Design and Construction Guidance or as stipulated in the Water Authorities Addendum.
- All public sewers are to be the subject of a Section 104 agreement of the Water Industry Act 1991.
- Invert levels of existing manholes and sewers are to be checked on site before construction commences and results reported to engineers.
- The Contractor is responsible for maintaining continuity of flow for all existing sewers within the site boundary and limit of works for the duration of the project.
- All drainage ironworks to comply with BS EN124, and be stamped with BS1 Kitemark. Covers to suit loading as below;
 - Carriageways and Roads - D400
 - Driveways and Verges - C250
 - Footways and Pedestrian Areas - B125
 - Gardens/Landscaping - A15
- All sewer pipes, up to, and including 600mm are to be vitrified clay or PVC-U to BS EN255 and BS EN1404 respectively. All sewer pipes 675mm diameter and above to be concrete pipes to BS EN1916. All adoptable highway drainage pipes must be vitrified clay or concrete. Gully pots to be PCC.
- All drainage shall be installed and tested strictly in accordance with the Manufacturers' printed instructions, BS EN 752, BS EN 1601, Local Water Authority requirements and the Building Regulations.
- All bedding shall be Class 5 unless noted otherwise.
- All trenches under existing and proposed public highways are to be backfilled with thoroughly compacted Type 1 granular sub-base material.
- Drainage laid beneath roads and areas of vehicular access (car parking etc) with less than 1200mm of cover shall be encased in concrete bed and surround with associated movement joints. Drainage laid beneath paths, footways and pedestrian areas with less than 900mm of cover shall be similarly treated.
- Chambers with outgoing pipes greater than 600mm diameter shall be fitted with guard bars, safety chains or other approved safety devices.
- The use of precast concrete products made with sulphate resisting cement is mandatory, unless a laboratory report proves such precautions are not necessary.
- A 600mm rocker pipe should connect into gully pot & be surrounded with min. C25 (S7) concrete, as per pot bedding and pipe surround (Type 2) if laid under 1200mm from surface level.
- All sewers to be abandoned must be surveyed to identify any lateral connections that are still live with any found to be reported to the Engineer.
- All laterals to be 150mm laid at 1:80 (surface) or 1:60 (foul) unless otherwise stated.
- All private drains to be 100mm diameter unless otherwise stated.
- Where inverts are less than 0.6m deep inspection chambers (min dia. 190mm) or access fittings (225 x 100mm) to be used, elsewhere proprietary plastic, brick or pcc is to be used and sized in accordance with Table 11 of Document H of the Building Regulations, together with NHBC Standards Chapter 5.3 and BS8301.
- Where pipes pass through footings, retaining or screen walls,lintels to be provided over drains.
- Where inverts are less than 0.6m deep inspection chambers (min dia. 190mm) or access fittings (225 x 100mm) to be used, elsewhere proprietary plastic, brick or pcc is to be used and sized in accordance with Table 11 of Document H of the Building Regulations (<0.6m to invert min DN300, >0.6m to invert min DN475).
- All gullies connected direct to drains to be roddable.
- Rainwater downpipes to be easily removable for rodding or to be provided with rodding access at ground level.
- Unless noted otherwise FW IC's and RE's to be 0.6m below DPC level, SW IC's and RE's to be 0.45m.
- Adequate precautions in accordance with Approved Document H and manufacturers' recommendations to be taken to protect drains (particularly plastic) at shallow depths.
- Catchpits to be as IC's but with 300mm sump below outgoing pipe invert level except where detailed elsewhere.
- Trees and shrubs of a large size or heavy canopy with a moderate or high water demand must not be planted within any sewer easement.
- Gullies within and adjacent to area of site works to be suction cleansed at commencement and completion of works.
- 1m deep root barrier of an approved type to be installed vertically along the back edging kerb of all areas of footway/demarcation to protect from both proposed and future plantation.
- Foul water IC's to be 750mm below FFL, unless noted otherwise.
- Surface water IC's to be laid 600mm below external level, unless noted otherwise.
- Rodding eye's to be laid 450mm below external level, unless noted otherwise.
- This drawing is to be read in conjunction with Cognition Land & Water Geotechnical Design Report reference: CG/39018, paragraph 4.3 (Drainage Installation) & Drawing nos: CG/39018A-015 & CG/39018A-016.
- Any outfall pipes of 350mm Ø must be capped off with a hinged and lockable safety grill.
- For Typical Surface Water Attenuation and Treatment Area detail, refer to Basin Cross Sections Sheet 2, Drawing no. A396-531.
- Basin to be lined with an impermeable membrane. Refer to Naue for details of Bentofix X2 BFG 4900 -Laminated GCL. Basin liner to be 1500mm below basin.

Rev	Date	Description	Drawn	Checked
A	02.25	First Issue	JJS	RF

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Client:

MILLER HOMES

Project:

**SOUTH WOKINGHAM SDL
PHASE 2B R10 RESERVED
MATTERS APPLICATION**

Title:

BASIN CROSS SECTIONS

Status:

Scale	Date	Drawn	Checked
AS SHN @ A1	FEB' 2025	JJS	RF

Drawing No:

A389-R10-RM-530

Revision:

A