

Protection of South East Water Sewerage Assets Other Authority Works

This document outlines the minimum requirements for works within the vicinity of South East Water's sewerage assets. Please note that 'Sewer Rising Mains' and 'Pressure Sewer Reticulation Mains' have special conditions and therefore the contents below may not be applicable.

General Conditions

- The design and construction of sewerage assets is to be in accordance with the most recent edition of *WSAA Sewerage Code of Australia (MRWA Edition)*.
- No additional loading is to be applied to existing sewerage assets.
- Only use products and materials approved by South East Water.

Asset location

- The location and depth of sewer is to be proven by hand excavation prior to the commencement of works.
- The contractor should make every attempt to locate boundary traps/inspection points to ascertain the position of the property service connection prior to excavation.
- The contractor should provide detailed plans showing major utilities and all South East Water's assets including property connections.
- Although every effort is taken in the preparation of asset information provided, South East Water accepts no responsibility for loss, damage or injury suffered as a result of a discrepancy.
- Any damage resulting from failure to comply with these requirements may result in penalties being imposed as provided for in the current legislation including the *Water Act*. In the event that damage is caused to South East Water's assets please contact Faults & Emergencies on 132 812.

NOTE: South East Water should be contacted if assets cannot be located based upon Dial Before You Dig information. Likewise, when additional assets are located which are not shown on plans and are otherwise thought to be water mains, South East Water should be contacted on 9552 3770.

Design Considerations

For sewer mains, the following applies unless stated otherwise:

- Minimum vertical and horizontal clearances are to be in accordance with Table 5.4 Clearances between Sewers and Other Underground Services of *WSAA Gravity Sewerage Code of Australia (MRWA Edition)*.
- Proposed drains are to cross above sewer at 90°.

- Longitudinal plans must be provided showing the location of all sewerage assets, including property connection branches, before consent is given to work near South East Water assets.
- Final construction plans must also be submitted to South East Water for approval prior to commencement of works.

For maintenance holes and maintenance shafts, the following applies:

- A minimum of 1 m horizontal clearance from the outside wall of the maintenance structure is to be maintained.
- A minimum 1 m clear level working space area of the cover surround is required.

Construction

- Only hand compaction is allowed over sewer mains. Vibrating rollers can be used if permission has been granted by South East Water.
- No blasting within 10 m of sewerage assets.
- No pile driving is allowed where sewer is within the pile's zone of influence.
- The minimum cover required over a sewer during construction (boxing out) is 450 mm.
- The maximum fill to be placed over a sewer is 1 m.
- Access to maintenance holes is required 24 hours per day for maintenance purposes.
- If a maintenance hole is found sheeted over, the project owner will be liable for costs of rectification.
- Any works undertaken on sewerage assets, including the lifting of maintenance hole covers, must be approved by South East Water and only carried out by South East Water or its approved contractor. South East Water must be notified at least 2 days prior to commencement of works via lodgement of an appropriate Work on Live Sewer form on Property Connect (refer to 'Live Sewer – Other authority works').
- Where a bore is to pass across or parallel within 1 m of the outer edge of an existing sewer, the position of the sewer shall be proven by excavation. All or part of this excavation shall be by hand as directed by a South East Water representative. The excavation shall be extended to 1 m from the sewer on the side from which the bore will approach, and the position and direction of the bore head checked when it reaches this excavation to ensure the required minimum clearance between the bore and the sewer is maintained. In addition, progressive management of the length of the bore shall be made to ensure the bore head has not missed the check excavation and travelled beyond it.

Proposed Drains

Where the vertical clearance of 300 mm cannot be achieved between a drain crossing over a sewer, it may be acceptable where a pier and beam structure/support can be constructed subject to the following conditions:

- Piers are to be 600 mm horizontally clear of the closest edge of the sewer and are to be constructed to a depth that is equivalent to the invert of the sewer.
- The drain is to act as the beam and must be of a continuous length between the two piers (i.e. no joints are to be constructed over the sewer).
- No additional load is to be placed on the sewer.
- A compressible fill material is to be placed between the sewer and the drain.
- South East Water will require a copy of the Work Method Statement for the crossing with plans, prior to installation, and an opportunity to inspect the constructed piers.
- Where the proposed drain is to pass over property connection branches, the following applies
 - Where a minimum vertical clearance of 600 mm is achieved, no additional protection is required.
 - Where the clearance is between 300 and 600 mm, all concrete branches will need to be replaced across the drainage trench (i.e. a minimum of 300 mm either side of the drain plus the drainage outside diameter).
 - Where the clearance is less than 300 mm, the branches may need to be lowered. This is to be determined on a case by case basis depending on the risk involved.
 - Support details for the drainage pipe will need to be provided to demonstrate that no additional loading is applied to the branches.
 - Future accessibility to branches should be considered when determining action to be taken regarding asset conflicts.
 - The replacement and lowering of property connection branches can be carried out via either a Development Agreement or minor sewer alterations.

New Assets below Existing Sewer Mains

A Work Method Statement, including the method of how the sewer is to be protected during works and specific details of backfill, must be submitted for South East Water's approval at least 14 days prior to the commencement of works.

CCTV Inspection

For close proximity drainage works and works near concrete sewer mains:

- South East Water will carry out a CCTV inspection of the sewer lines within the area of the drainage before commencement of works at the project owner's cost; and
- Immediately after the drainage work is complete, South East Water will require the lines affected by the works to be CCTV inspected at the project owner's cost.

Build Overs

To ensure above ground structures do not breach build over guidelines, review [Guidelines for Proposed Works Over / Adjacent to Water Corporation Assets up to and including 225mm diameter](#).

Alterations to South East Water's Assets

Where there is a requirement for adjustment of maintenance hole or shaft covers, service re-connections, sewer relocations etc., this can be arranged by either:

- Emailing oaawminorsewerworks@sew.com.au to request a quote for the necessary alterations*. Please provide the case number, details of work and relevant design plans.

OR

- Engaging an Engineering Consultant from our approved [Accredited Consultant List](#) to design and project manage the works. A [Works agreement](#) request will need to be submitted via South East Water's web portal 'Property Connect'.

*Alterations that are outside our criteria for minor works will need to be managed under a Works agreement request.

All alterations to South East Water assets as a result of the proposed works are to be conducted at the project owner's cost.

24/7 Emergency Response 132 812

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