

9 Bumborah Point Road, Port Botany

Modifications to existing stormwater pits – Methodology

Project Description

The purpose of the project includes the modification of the existing stormwater infrastructure (“the Works”) within the property at 9 Bumborah Point Rd, which is currently operating as an empty container yard by TyneACFS.

Methodology

- All Works are to be carried out in conjunction with the Site Management Plan (URS Pty Ltd) and site-specific Site Contamination Management Plan.
- Prior to the commencement of the works, sediment and erosion control will be implemented to ensure adequate measures are taken to reduce the risk of contamination of surrounding environments. Sediment Control Plan will be established as per Figure 1. Once established, the control measures are to be inspected prior to commencement of further works.

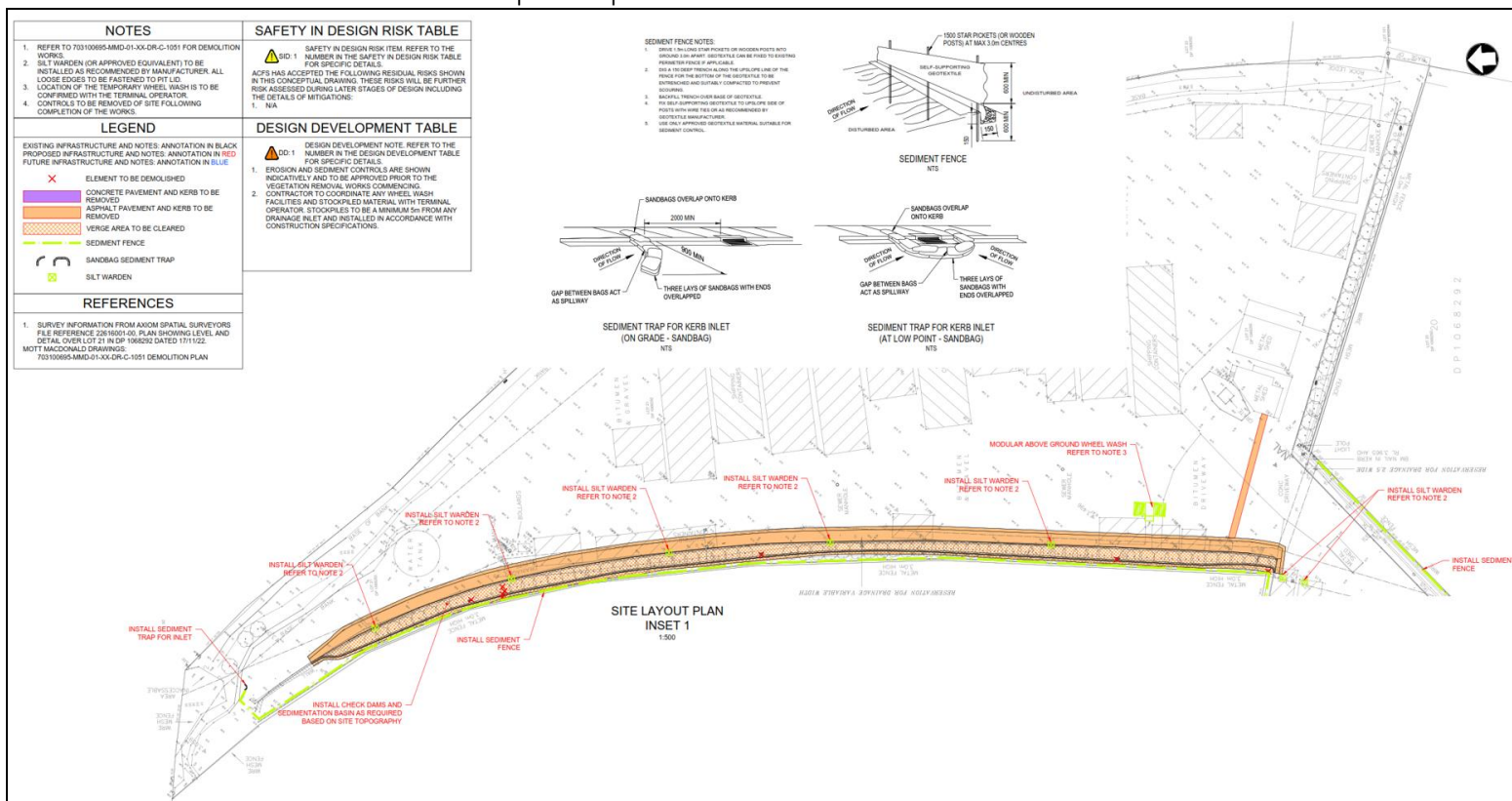


Figure 1

- Works to remove trees and vegetation within the proposed lane widening area has already been undertaken.
- To ensure the current drainage system remains functional throughout the works, new drainage pits will be constructed initially, ensuring the existing pits allow surface stormwater to continue to flow adequately during rainfall, when required.

- Construction

1. *New Pits*

- Sawcut, demolish & remove existing concrete pavement.
- Excavate & remove soil, allowing for additional area for works to be undertaken safely within the shaft void.
- Install shoring box as safety/environmental protection from risk of collapsing excavation of walls
- Expose top of existing culvert and provide penetration into the roof by sawcutting to the extent of the internal dimensions of the new pit walls.
- Clean-out any debris which has settled on the culvert floor.
- Construct blade walls within the culvert
- Pre-constructed pits to be lowered and placed on top of existing culvert roof.
- Remove shoring box and backfill newly installed pit using previously excavated material. Ensure geo-fabric is installed to encapsulate the pre-existing contaminated fill.
- Install step irons to pit/blade walls.
- Install pit grates.

2. *Existing Pits*

- Sawcut, demolish & remove existing concrete pavement.
- Demolish & remove existing pit.
- Excavate & remove soil, allowing for additional area for works to be undertaken safely within the shaft void.
- Install shoring box as safety/environmental protection from risk of collapsing excavation of walls
- Clean-out any debris which has settled on the culvert floor.
- Construct blade walls within the culvert.
- Pre-constructed pits to be lowered and placed on top of existing culvert roof.
- Remove shoring box and backfill newly installed pit using previously excavated material. Ensure geo-fabric is installed to encapsulate the pre-existing contaminated fill.
- Install step irons to pit/blade walls.
- Install pit grates.