

Natural Environment Unit

GUIDELINE for Preparing Works As Executed Data for Council Stormwater Assets

This guideline is intended to provide advice to applicants on Preparing Works As Executed Data for Council Stormwater Assets.

What are Works As Executed Data for Council Stormwater Assets?

Works As Executed Data Requirements for Council Stormwater Assets consists of a Works As Executed (WAE) plan, a spreadsheet and a Closed Circuit Television (CCTV) Report which is to be prepared to enable Council to update records and note variations to Council Stormwater Assets.

When is Works As Executed Data for Council Stormwater Assets Required?

Works As Executed Data for Council Stormwater Assets is required following development works which modify Council's stormwater assets or create new stormwater assets that will be handed over to Council's care and control. Generally this is imposed as a condition of development consent.

Technical Requirements for Works As Executed Data for Council Stormwater Assets

The Works As Executed Data is to be provided by a Registered Surveyor and should comply with the following:

1. Level of accuracy:

- X, Y coordinates (Easting; Northing) shall be +/- 0.05m
- X, Y (Easting; Northing) to GDA 94 Map Grid of Australia Zone 56 (MGA94)
- reduced level heights shall be +/- 0.01m
- reduced levels shall be in terms of Australian Height Datum (AHD)

2. Appropriate formats:

- Spreadsheet (.XLS);
- WAE Plan – Drawing (.DWG)
- CCTV Report / footage DVD – (.MPEG)

3. Deliverables:

One (1) soft copy of both the spreadsheet and plan on CD, one (1) scaled A1 paper copy plan of the Drawing, one (1) soft copy of the CCTV footage on DVD and one (1) paper copy of the CCTV report is to be provided to Council.

The detailed information required within these formats is detailed below:

Spreadsheet Schedule

An Excel Spreadsheet template with drop down menus to enter all the drainage asset information under the following headings is available from Council's Natural Environment section. This is to be completed and returned to Council.

Pits

- | | |
|------------------------------------|-------------------|
| ▪ Pit No. (available from Council) | ▪ Pit Material |
| ▪ Y Coordinate (Northing) | ▪ Grate RL |
| ▪ X Coordinate (Easting) | ▪ Pit Depth |
| ▪ Installation Date | ▪ Lintel |
| ▪ Pit Type | ▪ Pit Inflow Type |

Pipes

- | | |
|---------------------------|---------------------|
| ▪ From (upstream) Pit No. | ▪ Pipe Material |
| ▪ To (downstream) Pit No. | ▪ Pipe Length |
| ▪ Upstream Invert Level | ▪ Pipe Diameter |
| ▪ Downstream Invert Level | ▪ Construction Type |
| ▪ Installation Date | ▪ Joint Type |
| ▪ Pipe Type | |

WAE Plan

A Registered Surveyor is to electronically amend the approved 'design plan' to reflect the 'Works As Executed' information. In this respect the electronic copy of the Drawing file should contain the 'Works As Executed' information on a separate drawing layer.

The WAE plan is to provide the following information:

- The reduced levels (AHD) of all pit and pipe attributes should be listed in the following order:
 - Pit lid level (Road gully pit levels to be taken at centre of grate in the gutter, Junction pits in centre of lid).
 - Reduced level of the invert of the outlet pipe
 - Thereafter each inlet pipe invert in a clockwise direction from the outlet.
- Co-ordinates of all surface features and changes of horizontal alignment (bends) must be shown. (Refer Datum heading for co-ordinate system)
- All pipe sizes, classes, material and grades.

In relation to formalised Overland flow paths

- The position (coordinates for start and finish points and changes in direction) of formalised Overland flow paths;
- The reduced levels at appropriate intervals over the length of any formalised Overland flow paths including top and bottom of any retaining structures.

Other General Requirements of Reporting

All reports are to meet the following standards:

- Include an executive summary;
- Be professionally prepared;
- Provide details and qualifications of author.

For further information contact Natural Environment Unit on 9942 2111 or via email council@warringah.nsw.gov.au

Definitions

Design Plan means an original technical drawing outlining the proposed stormwater works.

Development means:-

- (a) the use of land, and
- (b) the subdivision of land, and
- (c) the erection of a building, and
- (d) the carrying out of a work, and
- (e) the demolition of a building or work, and
- (f) any other act, matter or thing referred to in section 26 that is controlled by an environmental planning instrument, but does not include any development of a class or description prescribed by the regulations for the purposes of this definition (*Environmental Planning and Assessment Act, 1979*).

Development Consent means consent under Part 4 of the *Environmental Planning and Assessment Act, 1979* to carry out development and includes, unless expressly excluded, a complying development certificate (*Environmental Planning and Assessment Act, 1979*).

Formalised Overland Flow Path means a man made construction to contain and direct stormwater which becomes concentrated as it flows overland making its way downhill following the path of least resistance towards the stormwater network, streams or the coast.