



Guidance Note

Drainage plumbing diagrams

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1. Background

A drainage plumbing diagram (DPD) is a diagrammatic representation of drainage plumbing work within a property. They were known previously as 'as-constructed diagrams', 'as-cons' or 'flimsies.'

Drainage plumbing diagrams are regularly used by homeowners, licensed plumbing contractors and others to determine the layout of drainage plumbing on a property. Knowing the layout of drainage plumbing can assist in:

- identifying where additional connections to existing drainage plumbing can be made;
- locating drainage connection points for survey-strata lots;
- ensuring that new buildings or extensions do not interfere with existing drainage plumbing;
- ensuring that any excavation works do not disturb the drainage plumbing;
- the repair of drainage pipework; and
- clearing blocked drains.

2. Submitting drainage plumbing diagrams

Licensed plumbing contractors are required to submit a drainage plumbing diagram when they are the responsible person for drainage plumbing work that involves the installation, alteration or extension of drainage plumbing including drainage plumbing services for survey-strata lots. A penalty may be applied for failing to provide a compliant drainage plumbing diagram.

The drainage plumbing diagram must be submitted to the Plumbers Licensing Board (the Board) with the related certificate of compliance within 5 working days after the work is completed.

Hint:

Drainage plumbing is any pipework installed below ground and therefore needs to be shown on a drainage plumbing diagram. This includes pipework to floor waste gullies, disconnector and overflow relief gullies and trade waste traps.

Where a drainage plumbing diagram is not lodged, the Board may request the licensed plumbing contractor responsible for the work provide the drainage plumbing diagram.

The licensed plumbing contractor is required to provide a copy of the certificate of compliance to the property owner. It is considered good practice to provide a copy of the drainage plumbing diagram to the owner at the same time.

When installing drainage plumbing for the purposes of providing connection points to survey-strata lots, a copy of the drainage plumbing diagram must be provided to the property owner or occupier. Licensed plumbing contractors may also retain a copy for their own records.

3. Information to be included on drainage plumbing diagrams

There are minimum requirements that apply to drainage plumbing diagrams. These requirements relate to the use of abbreviations, datum points, orientation, street frontage and mandatory information fields.

3.1. Abbreviations

When completing drainage plumbing diagrams, licensed plumbing contractors must choose abbreviations that are commonly used and understood by the industry. The Board has developed the following list of abbreviations to be used when referring to certain fixtures and features of the drainage plumbing.

Table 1: Approved abbreviations

| Name | Abbreviation |
|--|--------------|
| Aerobic treatment unit | ATU |
| Basin | B |
| Bath | Bath |
| Boundary trap | BT |
| Connection point for survey-strata lot | CP |
| Disconnecter gully | DG |
| Floor waste gully | FWG |
| Inspection opening | IO |
| Inspection shaft rising shaft | ISRS |
| Inspection shaft square on back | ISSOB |
| Overflow relief gully | ORG |
| Raised inspection opening | RIO |
| Reflux valve | RV |
| Pump discharge line | PDL |
| Rising shaft | RS |
| Sanitary stack | SS |
| Septic tank | ST |
| Shower | Shr |
| Sink | S |
| Sink (pot or utility) | PS |
| Trough (ablution) | Tr.(A) |
| Trough (laundry) | Tr.(L) |
| Urinal | Ur. |
| Vent pipe | VP |
| Vacuum sewer | VS |
| Water closet pan | WC |
| Wet well | WW |

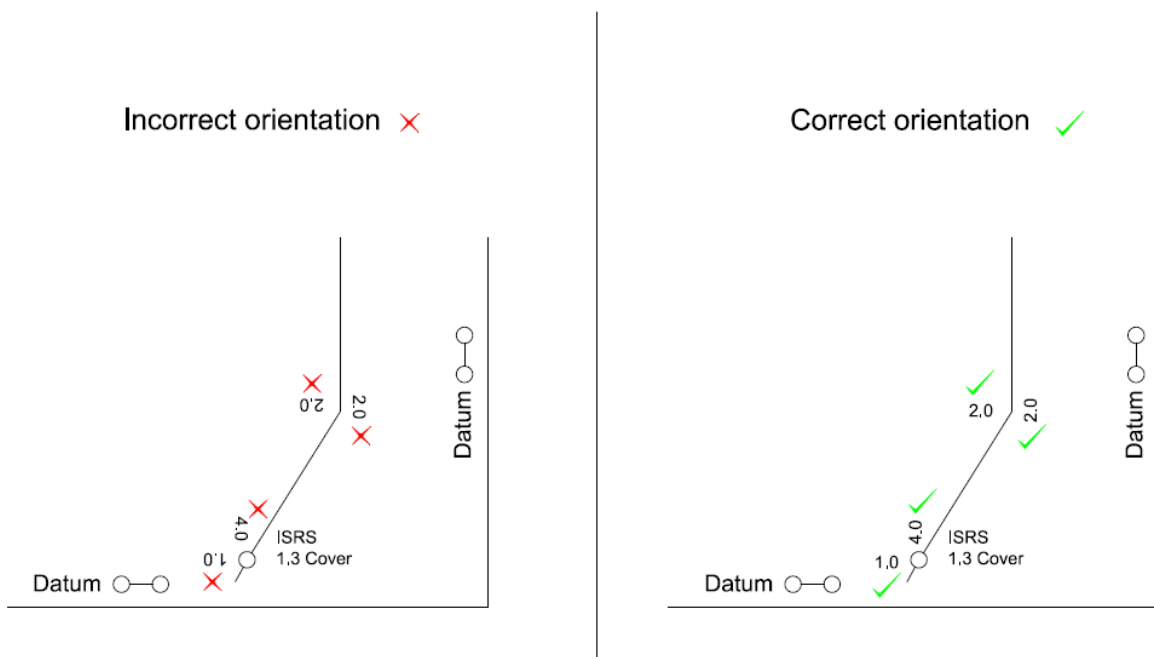
3.2. Datum points

Datum points are fixed starting points used to locate the following features on a drainage plumbing diagram:

- inspection openings;
- rising shafts;
- inspection shafts;
- reflux valves;
- boundary traps;
- connection points for survey strata lots; and
- location of drainage and changes of direction.

To provide for accurate reading, each drainage plumbing diagram needs to include at least two (2) datum points.

As the starting point, datum points are to be indicated by **0-0**. Measurements from both the horizontal datum point and the vertical datum point axes for each of the required measurements are to be read away from the relevant datum point (i.e. the orientation of these measurements should be the same orientation used for the datum points).



Measurements away from datum points are required to be recorded in metres to at least one decimal place. Where possible, points on the property boundary shall be used for datum points. Where this is not practicable, for example where the drainage plumbing work is a significant distance from the property boundary, buildings may be used.

See the **Example drainage plumbing diagram** on page 7 for the detailed use of datum points and the direction of measurements.

3.3. Direction and street frontage

Drainage plumbing diagrams must include an indication of the north direction in relation to the property and the street name that fronts the building must also be shown. This may need to be two (2) streets for corner blocks.

3.4. General information

Particular details relating to drainage plumbing work and associated information must be included on the drainage plumbing diagram in order to ensure they are suitable for future use. This information includes:

- The property address.
- The certificate of compliance number for the completed drainage plumbing.
- The name and PL number of the licensed plumbing contractor responsible for the drainage plumbing.
- A signed and dated statement certifying that the plan accurately shows the layout and dimensions of the drainage plumbing installed by or under the general direction and control of the licensed plumbing contractor.

To assist licensed plumbing contractors in meeting these requirements, a template incorporating these fields plus space for drawing the drainage plumbing diagram has been developed. This template is available at www.commerce.wa.gov.au/dpd

3.5. Other requirements

It is a general requirement that drainage plumbing diagrams be provided in a manner that is fit for purpose to assist in the identification of the layout of drainage plumbing in the future. To achieve this drainage plumbing diagrams must be:

- legible;
- complete;
- accurate; and
- in proportion where possible.

Hint:

Drainage plumbing work underneath a building is required to be drawn on a drainage plumbing diagram to represent the layout of pipework. Drainage plumbing work that exits the building must also have measurements as per part 3.2 above, in addition to the pipework layout.

Drainage diagrams should be provided as a one-sided A3 or A4 document on white paper using a black ink or ball point pen. Clear photographic images are also acceptable. Where it is necessary to provide a drainage plumbing diagram in a different format to the above, including electronically, the licensed plumbing contractor should contact the Board on 6251 1377 to discuss options.



4. Requesting a drainage plumbing diagram

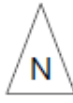
A web page has been developed to enable anyone who needs to determine the layout of drainage plumbing to obtain drainage plumbing diagrams at www.commerce.wa.gov.au/dpd.

5. Further information

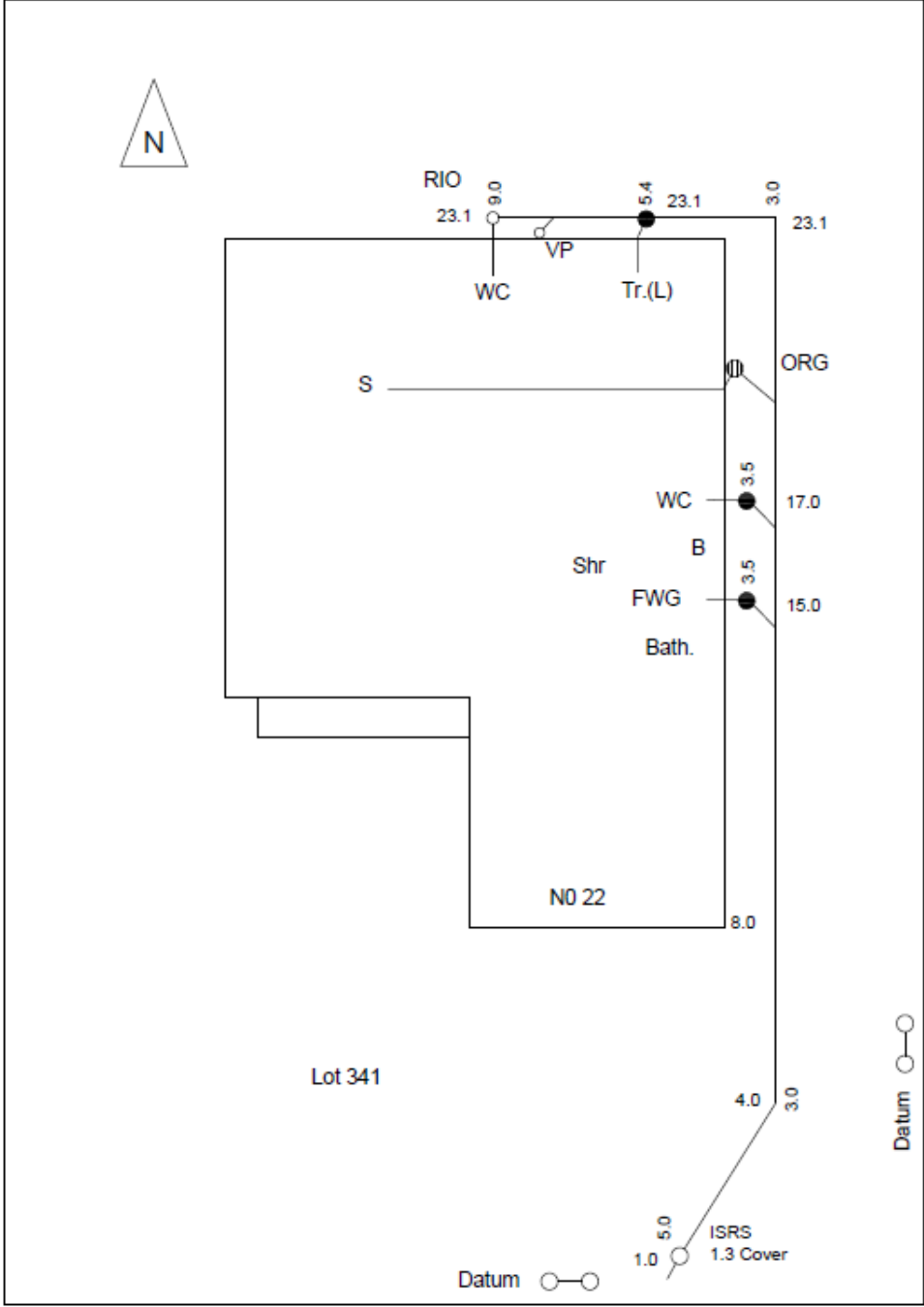
For issues with the DPD website or payment, or for further information on submitting or requesting DPDs, please contact Building and Energy at dpd@dmirs.wa.gov.au or on 6251 1301.

Drainage plumbing diagrams: Guidance Note

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|--|------------|---|---------------------------------|----------------|--|
|  Government of Western Australia Department of Mines, Industry Regulation and Safety | |  | | PIN | |
| DRAINAGE PLUMBING DIAGRAM Please print clearly using a black ink or ball point pen. Please complete in accordance with the 'Drainage Plumbing Diagram Guidance Notes'. | | | | | |
| Lot | Strata Lot | Unit | Street No | Certificate No | |
| Street Name | | | PL Licence No | | |
| Suburb | | Postcode | Plumber's Name | | |
| Building Name | | | Owner's Name | | |
| I certify that this drainage plumbing diagram shows the layout and dimensions of the drainage plumbing constructed by me or under my general direction and control at the above address. | | | | | |
| Signature: | | | Diagram Date:/...../..... | | |



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EXAMPLE DRAINAGE PLUMBING DIAGRAM