

Instructions¹ on use of the Unitywater standard drawing file for As Constructed submissions

1. General drawing requirements and setup

- Source Files: Only files supplied by Unitywater are to be used for the creation and plotting of DWG files.
- CAD File Format: All drawing files are to be submitted in AutoCAD 2018 format (or newer). To ensure long-term accessibility in the Asset Technical Library, files must be 'Purged' of all custom proxy objects and third-party metadata before submission.
- Coordinate System: Horizontal coordinates must be MGA Zone 56 based on GDA2020.
- Vertical Datum: All levels must be reduced to the Australian Height Datum (AHD).
- Layering: The layering convention is based on the SEQ/ADAC standard. Use only pre-defined layers; do not create new layers without Unitywater's prior agreement.
- Plotting: Use only the supplied Unitywater CTB file (UW A1-A3).
- Clean-up: Before final submission, all drawing files must be processed using the PURGE and AUDIT commands to ensure the database is clean and free of errors.

2. Title block compliance

- Populating Data: Use the Properties panel or the ATTEDIT command to populate the attributed title block.
- Drawing Numbers: Unitywater Drawing Numbers and Templates are issued upon receipt of the Pre-Start Notification application.
- Scale: The scale bar is a dynamic block; use the visibility grip to select the desired scale.
- Logos: Insert the relevant Consultant or Surveyor logos into the designated areas.
- Revision Box: Ensure the revision box (part of the attributed title block) is fully updated for every submission.

3. Asset-specific submission formats

Submission requirements differ based on the asset type:

- Active Assets (e.g. Pumping Stations, Treatment Plants):
 - DWG: Must be provided unbound using the AutoCAD eTransmit format.
 - PDF: Must be generated using the "DWG to PDF.pc3" printer to ensure individual layers remain accessible.
- Passive Assets (e.g. Pipelines):
 - DWG: Must be provided in a bound format using the AutoCAD bind command.

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4. External references (Xrefs) and images

- Xrefs: All Xrefs must be bound into the drawing file. Any Xrefs that are unloaded or not required must be removed entirely.
- Image Embedding: Image files must be embedded into the drawing file rather than referenced.
- Procedure: Open the image in Paint, select all (Ctrl+A), and copy (Ctrl+C). In AutoCAD, use Paste Special and insert as a Paintbrush Picture.

5. Certification and signatures

- Certification: All signature boxes must be completed according to SEQ Code requirements.
- Electronic Signatures: RPEQ Engineers and Registered Surveyors may use inserted digital signatures or sign directly on the PDF.
- Survey Marks: Update all Survey Mark location details (Eastings, Northings, and RL) within the certification area.

6. ADAC XML requirements

- Compliance: XML files must be compliant with either ADAC v5.01 or ADAC V6.00.
- Naming: XML filenames must exactly match the related DWG filename (same number and revision).
- Owner Attribute: Unless otherwise stipulated, the owner must be listed as Unitywater.
- Asset Status: The XML must include the mandatory "status" attribute for each asset (e.g. "Newly Constructed", "Existing", "Retired").