Burham WSW – Backwash Screen Access Gantry

Overview

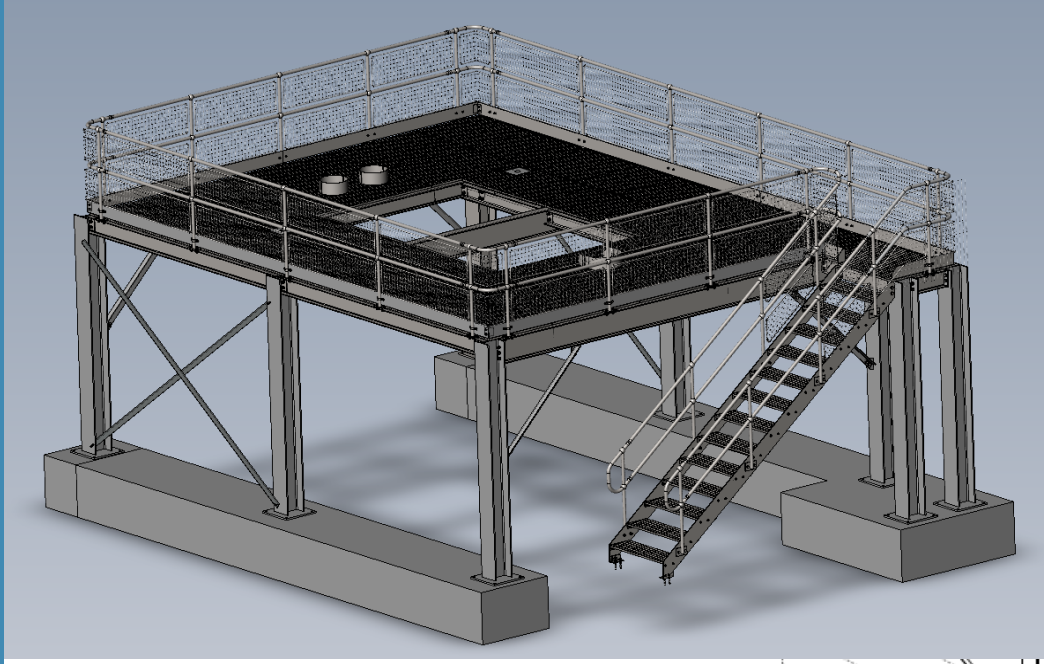
Dan's Engineering delivered the design, manufacture and installation of a galvanised steel access gantry at Burham WSW to support new screening plant. The gantry provides safe, compliant access to the new backwash screen equipment. Delivered as part of Southern Water's capital upgrade programme, the structure required precise coordination with our client to maintain programme certainty.

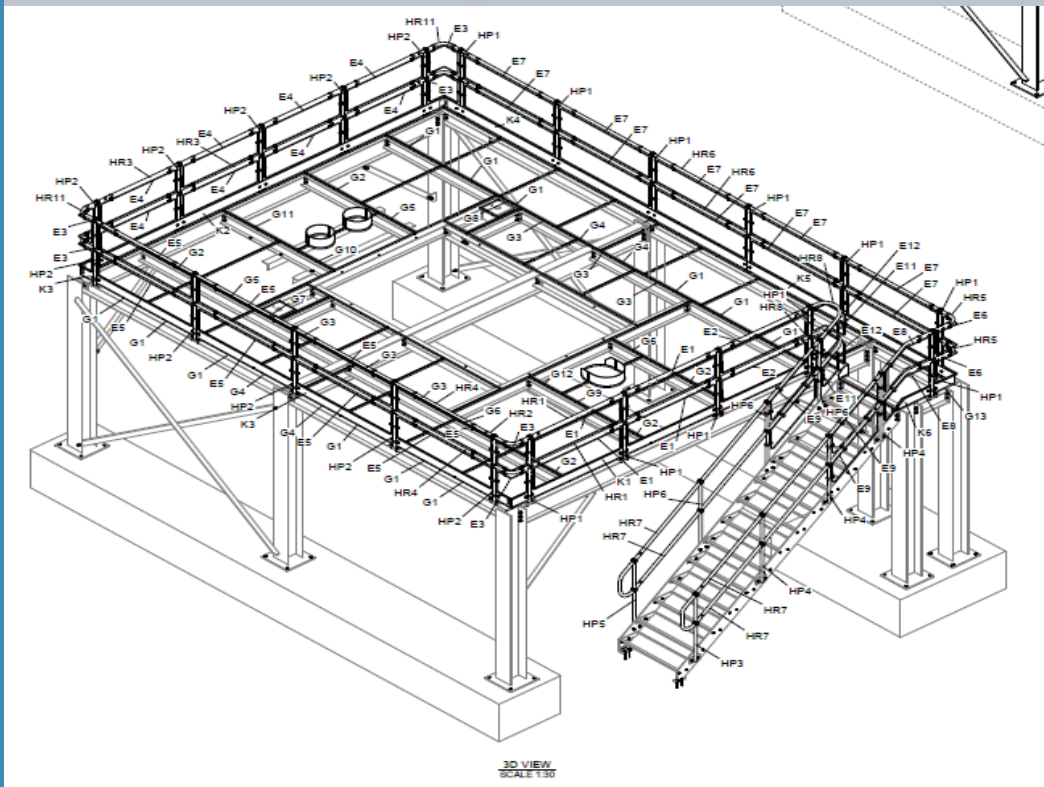
The Challenge

The structure needed to:

- Integrate precisely with newly constructed reinforced concrete plinths.
- Coordinate with pipework routes and screen equipment.
- Provide safe 360° maintenance access.
- Accommodate davit beam lifting.

Programme alignment with civil works and equipment installation was critical.





Burham Gantry

Our Solution

Dan's Engineering provided a fully integrated steelwork package, including:

- 3D modelling and coordinated GA drawings.
- Structural design to Eurocodes.
- Fabrication to EN1090 Execution Class 2.
- Hot-dip galvanised finish for long-term durability.
- Pre-planned davit socket positions to support future lifting operations.
- Braced UC leg arrangement designed for long-term structural stability.
- Open mesh flooring, integrated staircase and full perimeter guarding.

The Result

✓ Fully compliant EN1090 EXC2 structure

✓ Installed in alignment with civil programme

✓ Zero reportable safety incidents

✓ Accurate integration with screening equipment

✓ Permanent, low-maintenance access solution