

## Kennedy's Drive Sewer Pump Station & Wet Weather Detention Storage

### Date:

December 2016 – December 2017

### Location:

Ballarat, VIC

### Client:

Central Highlands Water

### Project value:

\$4.4mil

### Project Details:

Jaydo were awarded the Kennedy's Drive Sewer Pump Station (SPS) and Wet Weather Detention (WWD) Storage project by Central Highlands Water in December 2016. The scope of works consisted of:

- Construction of a 10m deep, 4m internal diameter cast in situ epoxy coated concrete wet well;
- Construction of new precast concrete valve pit & flowmeter pit;
- Supply & install mechanical equipment including 2 No. submersible pumps, DI discharge & scour pipework, valves, pipe supports and fittings;
- Installation of Wet Weather Detention Storage including 16 No. 175kL GRP tanks, riser, interconnecting pipework and precast concrete manholes;
- Installation of 70m of DN600 GRP gravity main and ERS pipework in road reserve;
- Installation of 90m of DN400 PN16 PE Rising Main & DI CL pipework in road reserve;

- Electrical works including Design and Construct new Main Switch Board, telemetry and ancillary equipment;
- Design and construct retaining wall; and
- Construct car park, fencing and remaining civil items.



### JAYDO CONSTRUCTION

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## Key Challenges:

- Load restrictions atop the 175kL tanks meant only a skid steer could be used to backfill the 16 tanks creating a time-consuming process
- Poor ground conditions required extra support and trench protection systems to ensure safety of onsite personnel
- Weatherproofing site prior to forecasted rainfall events



## Innovations:

The crew experienced difficulty preventing the 600mm diameter foam block-outs from floating during pouring of the manhole concrete bases. An engineered solution involved a fabricated steel support frame to support the bottom precast ring and provide added weight to prevent floatation.



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