

**Press Release
December 15th 2021**

Stanton Precast provide stormwater management on housing development

Stanton Precast elliptical pipes provided an effective, long term stormwater solution for Pentland View housing development.

Situated in Midlothian, this beautiful site is surrounded by countryside and has a striking background of the Pentland Hills.

Only 7 miles from the centre of Edinburgh, these new homes include 143 private and 47 affordable housing units.

Analysis was carried out by Scottish Water Engineers and the consultant Ironside Farrar into the DIA (drainage impact assessment) and the best solution for Scottish Waters combined sewer for storm and foul water. This included assessment of area, ground conditions and specific needs of the project. Stanton Precast Elliptical Pipes were then specified as they met the project criteria, which required more storage with efficient self-cleansing properties.

Advance Construction Scotland Ltd were awarded the contract and started DIA work on site in July 2021.

Over 330 metres of elliptical pipe were ordered to create two runs to sit parallel on a sloped area. Included in this were integrated side entry manhole units cast in to some of the elliptical pipes during manufacture. This eliminated the need for large diameter chambers to be constructed for man entry and maintenance as well as contributed to a quicker and easier installation. Again, these were specified along with end walls for some of the end units.

Providing integrated products during manufacture ensures that quality and durability is maintained and there is less time, materials and waste on site.

A total of 69 loads were delivered in just 20 days to meet the installation scheduling - on time and in spec.

Advance Construction Scotland Ltd were impressed with the elliptical pipe and support from Stanton Precast.

Marc Watson, Technical Manager for ACS Ltd said:
Stanton Precast were really helpful with installation data, off-loading and turning, elliptical installation literature to assist site with works.

Delivery schedule with timings were agreed prior to the first delivery, so that site was fully aware when they were due, so that they could work around other site deliveries.

Stanton Precast were able to double the number of units being delivered to site per day to assist with speeding up installation on site.

Lifting clutches were provided to assist with off- loading and placing units.

Contracts manager John Irving advised that these works were progressing ahead of programme and without any issues.

The site supervisor on site had said that the units were very easy to move around site and place in excavation despite their awkward size.

The key benefits of using elliptical pipes:

- Backfill and minimal aggregate required so less materials, less truck movements
- Can be installed at shallow depths due to structural profile
- Internal profile allows a constant self-cleansing flow velocity, even with low flows, negating the need for a secondary dry weather flow channel to be installed
- Cast in lifting anchors provide safer offloading and handling



Stanton Precast (formerly Stanton Bonna Concrete Ltd) are widely recognised as a leading UK manufacturer of precast concrete pipes, manholes, culverts and linear drainage as part of a comprehensive range of precast offsite solutions for water, highways, rail, housing, commercial, telecom and power sectors of the construction industry.

This, together with being part of Sateba, a European specialist in precast concrete rail and infrastructure, gives confidence that our knowledge and experience of precast concrete products is extensive and professional.

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