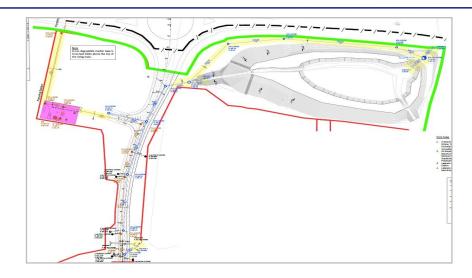
Uttoxeter Phase 2 Infrastructure - Drainage and Enabling Works

Project Profile

Client: St Modwen Development Employers Agent: ProSurv Designer: PJA Consultants Value: £1.95m



This Design & Build project was carried out for St Modwen Developments to provide the primary infrastructure for a new housing development on a 2.2ha site to the North of Uttoxeter, adjacent to the A50 trunk road. The carriageway was constructed under a Section 38 agreement with Staffordshire County Council. Designer PJA were novated to us following contract award and fulfilled the role of both Contractors Designer & Clients Designer also inspected the work on behalf of the client.

Main work involved;

- Construction of a 170m long single carriageway spine road 6.5m wide with 2m footpaths each side:
 - Site clearance and topsoil strip stripped topsoil was either left in stockpiles for reuse by others at a later date or was used to topsoil the new attenuation pond
 - Excavation for road box and provide 300mm capping layer
 - 390m of 150mm to 300mm dia foul drainage up to 6m deep including 12no manholes up to 2.4m dia,
 - 450m of 25 600mm dia surface water drainage up to 3m deep including 13No manholes up to 3m dia,
 - 24no highway gullies,
 - ♦ Kerbing, footpaths & edgings,
 - One of the set of t
 - A new splitter island to replace an existing island at the site access roundabout
 - 1450m² of surfacing including 40mm thick HRA surface course with precoated chippings
 - 150m of Ducting for electricity and telecoms
 - ◊ Excavate, sand & backfill trenches for incoming gas & water mains
 - Temporary diversion of existing watercourse to allow construction of 825mm dia pipe with headwalls for permanent culvert
- Creation of a large surface water attenuation pond:
 - 28,500m³ of Bulk Earthworks using plant fitted with GPS control programmed from the digital earthworks model
 - ◊ 190m of 300mm dia bypass drain.
 - \diamond $\,$ 3.0m dia flow Control Chamber with hydrobrake.
 - ♦ 3No headwalls with 600mm dia outfall pipework.







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Uttoxeter Phase 2 Infrastructure - Drainage and Enabling Works (cont'd)

Project Profile

Client: St Modwen Development Employers Agent: ProSurv Designer: PJA Consultants Value: £1.95m



- Foul Sewage pumping station including:
 - 8m deep x 2.4m dia wet well constructed in open cut excavation
 - $\diamond~~$ 6m deep x 3m dia Weholite foul attenuation tank with a storage volume of 155m 3
 - ♦ 90m³ Anti floatation slab
 - 250m of PE100 SDR11 rising main including an off site section requiring 4 way temporary traffic lights
- 11,000m2 Top soiling & hydroseeding to landscaped areas
- 30,000m³ of surplus excavated material relocated to on-site stockpiles for reuse for others
- Construction of brick built electric sub station 4.5m x 4.5m in plan & 3m high (with pitched, tiled roof) & associated works
- 2.9m x 2.1m concrete base for Gas Governor station

The project was carried out carried out during the extremely wet autumn and winter period of 2019/20 which created very difficult site conditions, however with careful management of haul roads, earthworks and formations, including the use of bog-mats, the work was completed on programme.







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