

# Tom Leatherland BSc (Hons) Associate Director



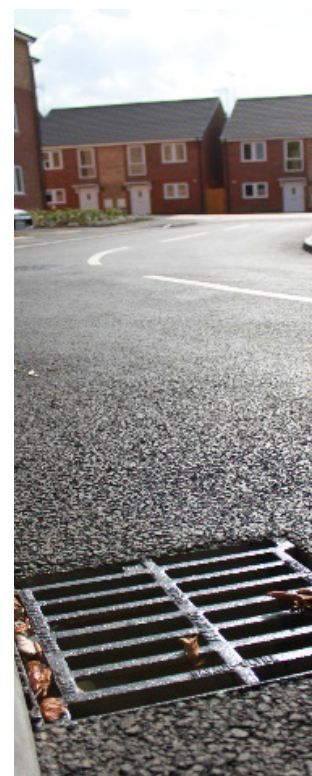
Tom started his career with JPP as a Graduate Engineer in 2014 following the completion of a Civil Engineering degree at Nottingham Trent University.

He is a member of the Institution of Civil Engineers and has been working through his qualifications to become incorporated as an Engineer.

In 2018 Tom became a Senior Engineer before progressing to an Associate in 2019. He is now Associate Director responsible for leading our Infrastructure team in Northampton specialising in design of medium to large residential schemes, affordable housing, industrial and commercial projects.

Tom's areas of expertise are in highways engineering, drainage, SuDS Design and feasibility studies. He is also proficient in the following software: AutoCAD, Civil 3D, WinDes by Micro Drainage and PDS by Causeway.

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## Arnold Lane, Gedling



The Arnold Lane, Gedling development is a 1000 unit mixed use development comprising of residential dwellings, a school and a commercial area set between Arnold Lane and the newly constructed Gedling Access Road. JPP were originally appointed by Keepmoat Homes to complete the civil engineering designs for Phase 1 which had been commenced by a different consultant.

Following a successful Phase 1, JPP were appointed by Keepmoat Homes to carry out the feasibility works for Phase 2 which included; Site Constraints plans to assist with the site layout from an engineering perspective, Preliminary Engineering, Foundation Assessment and an initial cut and fill. The feasibility works then progressed to engineering support during the planning process before undertaking the full infrastructure designs for the road and sewers accompanied by a full private drainage and external levels.

A key challenge was finding cost-efficient engineering solutions for the unique ground conditions on site which saw areas of thick deposits of made ground that reached up to 10m deep in places. This required good communication between the client, the geotechnical consultant and our engineers throughout the development of the scheme.

Due to the complex topography of the site and unusual ground conditions, JPP were able to produce an incredibly detailed cut and fill package which formed a bulk earthworks tender package for the client.

Our design was split out into stages and featured heavy/deep excavations to remove and/or bury thick deposits of made ground, High Energy Impact Compaction (HEIC) of reworked made ground to provide a more economical foundations solution and reinstatement of a large surplus of organic material in the form of layering under soft landscaped areas to reduce the requirement for material offsite reducing construction costs for the client.

JPP have carried out the following works:

- Section 104 Pack
- Section 38 Pack
- Section 106 Application
- Staged Cut & Fill Ground Works Pack
- Private External Levels Design
- Private Drainage Design

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## Houlton Residential Development



JPP were appointed by William Davis to produce a full civil and structural engineering design for a new residential development comprising of 146 dwellings within the wider infrastructure development in Houlton, Rugby.

JPP works included:

- Initial constraints plans/optioneering works due to the challenging topography of the site and drainage discharge points.
- Producing detailed on-site drainage design including full Section 104 drawing package.
- Producing detailed on-site road design including full Section 38 drawing package.
- Design of all private drainage and external levels to the William Davis specification.
- Producing a detailed cut and fill analysis to inform our client of the earthworks shift requirements to build the scheme out.
- Designing an off-site footpath and associated earthworks to tie into an existing footpath to the south of the site.
- Producing details of the wildlife tunnel crossing beneath the proposed adoptable road extents to ensure an existing 'green corridor' is maintained following construction of an adoptable road which intersects the corridor.
- Taking the scheme through to technical approval with Warwickshire County Council for the adoptable roads and Severn Trent for the adoptable drainage network.



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## Hunnington Residential Development



Image Credit - Bellway Homes Limited (South Midlands)

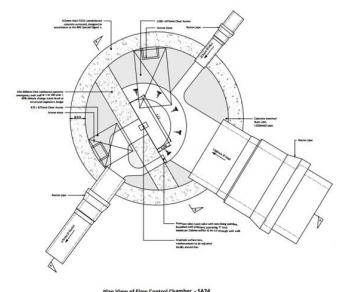
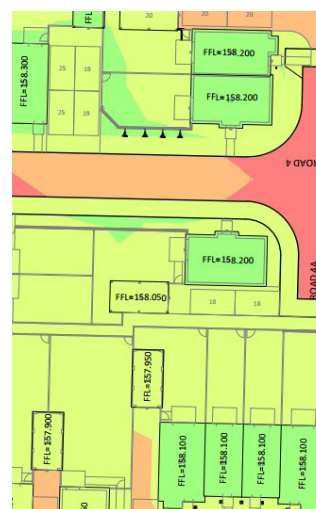
JPP have been working with Bellway South Midlands on developing the former Blue Bird Toffee factory site near Bromsgrove into 86 new residential dwellings that sit around the existing listed buildings which front the site.

As well as developing a scheme containing listed buildings, JPP have worked closely with JBA Consulting, producing options to assist with their hydraulic model as well as developing a scheme around two existing buildings. Careful consideration and design has been needed to protect the proposed dwellings whilst maintaining the existing flow path through the site. JPP have worked closely with JBA Consulting producing options to assist with their hydraulic model.

To assist with the site clearance of the existing buildings and hard standing, JPP have completed an extremely detailed cut and fill based on the different layers of material identified within the geotechnical report. This has been done to allow Bellway to gain an understanding of the material that will be generated from the site clearance at an early stage of the project and make provisions for reusing material where possible.

JPP have provided the following services:

- Site Layout
- Civil Engineering Design
- Foundation Design
- Superstructure Design
- Section 278 Design



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