Luke Clarke MEng (Hons)
Director

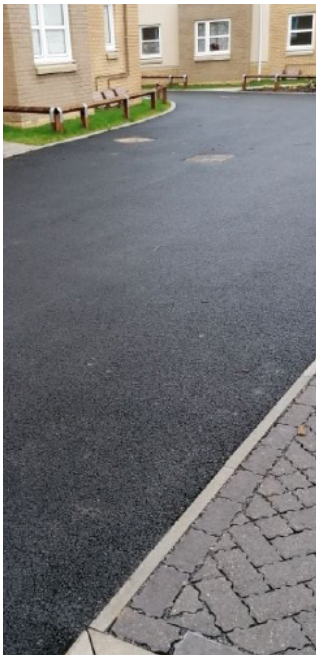
Luke joined JPP in 2016 and leads the Infrastructure Design team in the Milton Keynes office; specialising in the design of large residential schemes, affordable housing, industrial projects and commercial developments.

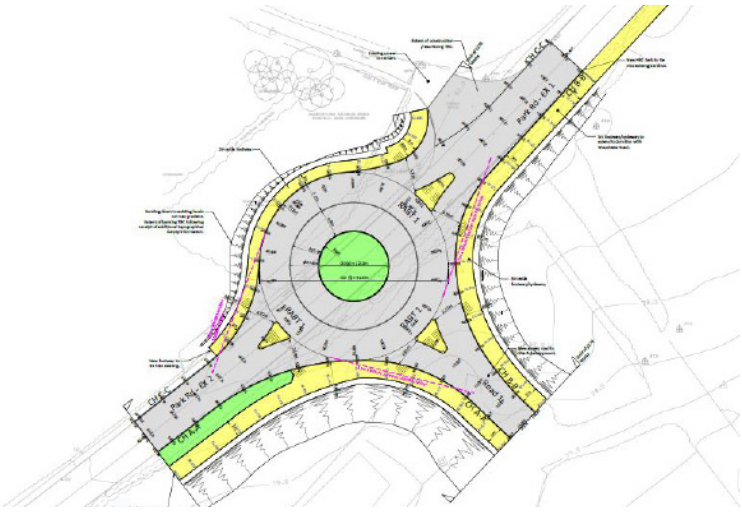
His experience in highway schemes includes the detailed design of access roads, junctions and roundabouts, pavement designs, preparation of construction specifications, securing technical approvals, and liaising with contractors during the construction stage to ensure the successful completion of projects.

Experience in drainage design includes developing strategies for the management, treatment and disposal of surface water runoff, detailed design of foul and surface water drainage systems for various residential and commercial developments. Luke has undertaken the design of various sustainable drainage systems (SUDS) including detention basins, swales, permeable pavements and infiltration systems.

He is a member of the Institution of Highways and Transportation (MCIHT) and working towards Chartered Engineer status.

T: 01908 889433
M: 07393 019650
E: luke.clarke@jppuk.net





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The Asps, Warwick


Image Credit - Taylor Wimpey Midlands

The Asps, Warwick is a mixed development that includes 900 dwellings, two commercial areas, a school and a park & ride.

The site is split with Taylor Wimpey Midlands constructing 450 dwellings and Bloor Homes constructing a further 450 dwellings.

JPP Civils' instruction for the site back in 2020 included preliminary engineering drainage and levels strategy, detailed planning support, road and sewers drawing packs, detailed levels and drainage designs and foundations designs for the full 900 dwellings.

Since our instruction, JPP Civils in Northampton have worked to help secure planning approval for the main infrastructure of the development as well as the separate phases for both Taylor Wimpey and Bloor Homes.

We are working to secure Section 38 and Section 104 technical approvals for the on-site roads and drainage and we also carried out the plot parcel designs for our clients with the help of Luke Palmer and his team completing foundations.

Construction work has since started on the main spine road through the site at the Southern Banbury Road site access.

The first section of the road has been constructed up to the base course and the large pond/swale running along the far site boundary has been excavated.

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Broadnook Garden Village, Rothley

Image credit - Isaac Mercer

Broadnook Garden Village in Rothley, Leicestershire is a mixed use development for up to 1,950 new houses.

JPP have been providing:

- Feasibility works
- Reserved matters planning packages
- Detailed Infrastructure Design
- Site wide earthworks analysis
- Earthworks specifications
- Structural designs


Image credit - Davidsons Homes

Broadnook Garden Village will be a modern, purpose-built community that feels like a village bedded into the land for centuries. With parks, shops, sports facilities and places to enjoy free time the aim is to create a thriving, connected, community feel.

Located to the south of Rothley, Broadnook Garden Village is named after the ancient Broadnook Spinney running through the land. The development will have excellent access to nearby cities and towns as it is positioned just off the A6 and A46.

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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

Scan the QR code to find out more about JPP.