

Kirklees Council

Senior Engineers – Context Sheets

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Kirklees Council - Highways Safety, Senior Engineer

The Highways Safety Design Teams are made up of Casualty Reduction, Community Projects.

We are currently recruiting to roles with Casualty Reduction and Community Projects.

The Teams in Highways Safety are responsible for keeping traffic on the roads of Kirklees running as safely and efficiently as possible. They do this through finding engineering solutions reducing the number of collisions as well as the delivery of community, and safe routes to school 'schemes' focusing on place-based working, and dealing with requests regarding safety, speed management, parking, congestion, signing and lining for the district.

On a day to day basis the Senior Engineer role is very varied. Using your experience, knowledge and expertise in Highways Safety design, Highway legislation, regulatory and legal requirements, you will support the development of safe and effective movement of traffic around our district. As a Senior Engineer Safety, you will:

- Design and manage engineers and /or apprentices in:
 - the design of casualty reduction schemes after detailed accident analysis
 - the design of traffic management and highways safety schemes aiming at improving safety for all highway users including vulnerable road users.
 - the design of new safety measures that improve the day to day safety of pedestrians and other highway users.
- Undertake Road Safety Audits individually or as part of an audit team.
- Investigate and respond to requests from MPs, Councillors and residents with regards to speed, rat running, pedestrian crossing concerns, HGVs, and other safety related issues, and understand the need for effective and efficient communication, both written and verbal. Manage others to do the same.
- Represent the Service, liaise with and advise various Council departments and partners on safety issues relating to all traffic interaction on the highway, including our most vulnerable users i.e. pedestrians and cyclists. This may involve working on schemes generated from; agreements made under Section 38, 278 or 106 of the Highways Act and working across the wider Highway Design team, major scheme proposals and West Yorkshire Transport fund initiatives.
- Assess the potential impacts of proposed housing / commercial developments around Kirklees and looking for ways to ensure those developments do not have a detrimental effect on the safety of our highway.
- Support the management our Speed Indicator Device programme and the Vehicle Activated signs that we have throughout the district.

- Support the development of Safe Routes to School – predominately around engineering solutions for improvements to child pedestrian / cycling safety.
- Management of our annual roadmarkings programme.
- Undertake the relevant duty holder's role under the Construction (Design and Management) Regulations 2015, in particular, Designer, and help other to understand and undertake theirs.
- Be responsible for the wellbeing of yourself and others on a day to day basis, and the management of Engineers and Apprentices in your team.
- Spend a portion of your time travelling between sites, for which you will need a full and valid driving licence, and a willingness to undertake a Kirklees Council driving assessment.

Kirklees Council - Highway Design Team and Major Design Team, Senior Engineer

The Major Design Team, within Highway Design, are responsible for the detail design and delivery of major highway schemes across Kirklees. These are often multi million pound schemes which aim to; improve congestion, facilitate economic and housing growth, provide infrastructure for vulnerable road users, improve both public health and help air quality

On a day to day basis the senior engineer role is very varied. This is a role that will involve experience, knowledge and expertise in Highways Design and as a Senior Engineer Major Design you will:

- Undertake or assist with the detail design of major highway schemes for which an understanding highways and drainage design is needed.
- Work with Transportation colleagues to develop detail design and construction drawings from concept plans.
- Prepare or assist with the preparation of contract drawings and documentation for the major highway schemes you are involved in.
- Get involved in other work across the Design team, which may involve schemes generated from; agreements made under Section 38, 278 or 106 of the Highways Act, Maintenance and Safety.
- Undertake or assist in the supervision of schemes being undertaken on site, and keep clear and accurate records of your daily activities
- Undertake the relevant duty holder's role under the Construction (Design and Management) Regulations 2015, in particular, Designer.
- Undertake or assist with project management including managing project budgets
- Liaise with and advise various Council departments and partners, including West Yorkshire Combined Authority, on issues relating to major schemes you are involved in, in particular about their impact on our network and understand the need for effective and efficient communication, both written and verbal.
- Be responsible for the wellbeing of yourself and others on a day to day basis and the supervision of Engineers and Apprentices within in your team.
- Travel between sites when necessary, for which you will need a full and valid driving licence, and a willingness to undertake a Kirklees Council driving assessment.

Kirklees Council - Highway Design, Section 278, Senior Engineer

The Section 278 team, within Highway Design, are responsible for the design and development of schemes associated with new developments across Kirklees. These are proposals submitted by Developers and Highways Consultants as part of the Planning process and involve works on the adopted highway, which are necessary to either facilitate or improve access, mitigate against development traffic, or improve the network infrastructure to facilitate often major housing sites and / or commercial development. The team also get involved in schemes on land owned by other parts of the Council i.e Kirklees Housing, Crematoria, Education, where improvements or maintenance works are need to roads under their private ownership.

On a day to day basis the senior engineer role is very varied. This is a role that will involve experience, knowledge and expertise in Highways Design and as a Senior Engineer Section 278 you will:

- Undertake or assist in the design of highway schemes, for which you will need an understanding highways and drainage design.
- Work with developers and highway consultants on the design of highway schemes, from pre-application stage, to completion of construction on site, which will facilitate development, in particular with relation to Sections 278's.
- Prepare or assist in preparing the contract drawings and documentation for the highway schemes you are involved in.
- Get involved in work across the Design team which may involve schemes generated from; agreements made under Section 38 or 106 of the Highways Act, major scheme proposals, Maintenance, Safety and / or West Yorkshire Transport fund initiatives.
- Play a part in the supervision of those highway projects you have designed particularly those that are associated with planning applications and where they relate to the impact of those applications to the highway network.
- Undertake the relevant duty holder's role under the Construction (Design and Management) Regulations 2015, in particular, Designer.
- Undertake supervision of works being undertaken as part of Section 278 agreements, and keep clear and accurate records of those inspections.
- Undertake or assist with project management including managing project budgets.
- Liaise with and advise various Council departments and partners, including developers and highway consultants on design issues relating to 278 works and understand the need for effective and efficient communication, both written and verbal.
- Be responsible for the wellbeing of yourself and others on a day to day basis, and the supervision of Engineers and Apprentices within in your team.
- Spend a portion of your time travelling between sites, for which you will need a full and valid driving licence, and a willingness to undertake a Kirklees Council driving assessment.

Kirklees Council - Highways Design, Highways Safety Public Realm, Senior Engineer

The Public Realm Design Team in Highways Safety are responsible for supporting the regeneration of our Town Centres, through effective and innovative design of highway maintenance and traffic management schemes and for finding solutions to enable the competing demands from busy town centres to work together to create vibrant and attractive hubs for the future.

On a day to day basis the Senior Engineer role is very varied. This is a role that will involve experience, knowledge and expertise in Highways Maintenance and Traffic Management, and as a Senior Engineer in Public Realm you will:

- Design highway maintenance schemes required to improve the public realm that is on offer for all highway users, including those categorised as our most vulnerable road user groups, and that improve the day to day movement of pedestrians, cyclists, and other highway users.
- Represent Highways in development of scheme across the Council which may involve schemes generated from Blue Print proposals, Town Centre Initiatives, Public Art projects, Landscape and Play Street proposals, and West Yorkshire Combined Authority schemes.
- Undertake the relevant duty holder's role under the Construction (Design and Management) Regulations 2015, in particular, Designer, and manage other staff members on theirs.
- Liaise with and advise, and manage others to liaise with and advise, various Council departments and partners on relating to all traffic interaction on the highway.
- Assess the potential impacts of proposed housing / commercial developments around our Town Centres and look for ways to ensure those developments blend in to and enhance our Towns.
- Be responsible for the wellbeing of yourself and others on a day to day basis, and the management of Engineers and Apprentices within in your team.
- Spend a proportion of your time travelling between sites, for which you will need a full and valid driving licence, and a willingness to undertake a Kirklees Council driving assessment.

Kirklees Council - Highway Design Section 38, Senior Engineer

The Section 38 team, within Highway Design, are responsible for the assessment of highway proposals associated with new developments across Kirklees. These proposals are submitted by Developers and Highways Consultants as part of the Planning process and the roads will, with agreement made under Section 38 of the Highways Act, become part of the public highway infrastructure.

On a day to day basis the senior engineer role is very varied. This is a role that will involve the gaining of experience, knowledge and expertise in Highways Design and as a Senior Engineer (Section 38) you will:

- Undertake and assist with the design of new development related highway projects, and the highway adoption process is needed.
- Work with developers and highway consultants on the design of highway schemes, from pre-application stage, to completion of construction on site, which will facilitate development, in particular with relation to Sections 38.
- Get involved in work across the Design team which may involve schemes generated from; agreements made under Section 278 or 106 of the Highways Act, major scheme proposals, Maintenance, Safety and / or West Yorkshire Transport fund initiatives.
- Play a part in the supervision of those highway projects you have designed that are associated with planning applications and where they relate to the impact of those applications to the highway network.
- Undertake the relevant duty holder's role under the Construction (Design and Management) Regulations 2015, in particular, Designer.
- Undertake inspections of works being undertaken as part of Section 38 agreements, and keep clear and accurate records of those inspections.
- Undertake or assist with project management including managing project budgets
- Liaise with and advise various Council departments and partners, including developers and Highway Consultants on issues relating Section 38's, their impact on our network and understand the need for effective and efficient communication, both written and verbal.
- Be responsible for the wellbeing of yourself and others on a day to day basis, and the supervision of Engineers and Apprentices within in your team.
- Spend a portion of your time travelling between sites, for which you will need a full and valid driving licence, and a willingness to undertake a Kirklees Council driving assessment.

Kirklees Council - Highway Design Section 38 Supervision, Senior Engineer

The Section 38 team, within Highway Design, are responsible for the assessment of highway proposals associated with new developments across Kirklees. These proposals are submitted by Developers and Highways Consultants as part of the Planning process and the roads will, with agreement made under Section 38 of the Highways Act, become part of the public highway infrastructure.

On a day to day basis the Senior Engineer role is very varied and fast moving. This is a role that will involve the using and sharing of experience, knowledge and expertise in predominately Highways Construction, but will require an understanding of design, and as a Senior Engineer (Section 38 Design Supervision) you will:

- Undertake and manage the inspections of works being undertaken as part of Section 38 agreements and ensure clear and accurate electronic records of those inspections are kept.
- Build and maintain close working relationships with developers and their contractors to ensure timely, compliant construction of new roads across Kirklees that are to be adopted under Section 38.
- Supervise others in a range of highway schemes being delivered on our network, for which you will need experience in all aspects of highways construction, including schemes that are: associated with planning applications resulting in 278 agreements, developed from major highways projects, or those require site supervision from other parts of the Directorate with similar technical disciplines.
- Undertake the relevant duty holder's role under the Construction (Design and Management) Regulations 2015.
- Undertake, supervise, and mentor others in managing projects on site, including reporting to Project Managers on some project budgets.
- Liaise with stakeholders and partners, including, but not limited to developers and highway consultants on construction issues relating to works on site and understand the need for effective and efficient communication, both written and verbal.
- Be responsible for the wellbeing of yourself and others on a day to day basis, and the supervision of Engineers and Apprentices within in your team.
- Spend a portion of your time travelling between sites and attending meetings, for which you will need a full and valid driving licence, and a willingness to undertake a Kirklees Council driving assessment.

Kirklees Council - Urban Traffic Management Control (UTMC), Senior Engineer

The Urban Traffic Management Control team, within the Highways Service, are responsible for the design, operation and maintenance of all the Traffic Signals, VMS and other UTMC assets across Kirklees. They also provide support to other council services such as Network Management, Highway Safety, Planning, Major Projects, and Highway Design. The UTMC team's aim is to: improve congestion, facilitate economic and housing growth, provide infrastructure for vulnerable road users, and improve both public health and air quality.

On a day-to-day basis the Senior Engineer role is very varied. This is a role that will involve using and sharing your experience, knowledge, and expertise in Urban Traffic Control and as a Senior Engineer (UTMC) you will:

- Undertake and assist with the management of the UTC system and all other UTMC assets including maintenance, operations, and fault identification
- Undertake and assist with the day-to-day management of the Traffic Signals Maintenance Contractor
- Undertake and assist with the day-to-day management of the UTC Wi-Fi communications systems including fault identification, system stability and future expansion
- Undertake design work for UTC led schemes and work with other sections to provide UTC design input to feed into larger schemes
- Work with colleagues in Highways Network Management to co-ordinate statutory undertakers work on the highway
- Undertake, and support others in the supervision of works being undertaken on site, and keep clear and accurate records of your daily activities
- Undertake the relevant duty holder's role under the Construction (Design and Management) Regulations 2015, in particular, Designer
- Liaise with and advise various Council departments and partners, on issues relating to major schemes, about their impact on the network and understand the need for effective and efficient communication, both written and verbal
- Undertake and assist with the recharging of damage to UTC/UTMC assets with colleagues in Recoveries and Finance
- Undertake and assist with the validation of invoices from contractors ready for payment ensuring contractual compliance
- Assist with project and programme management, managing resources and budgets
- Be responsible for the wellbeing of yourself and others on a day-to-day basis, and the management and supervision of Engineers and Apprentices within your team including 1-2-1's, appraisals etc, where appropriate
- Occasional travelling for site visits and meetings may be necessary, for which you will need a full and valid driving licence, and a willingness to undertake and pass Kirklees Council driving assessment

Kirklees Council - Highway Asset and Network Management, Senior Engineer Maintenance Design

Kirklees Council maintains a diverse range of highway infrastructure including over 1900km of both urban and rural network. The Maintenance Design Team are responsible for ensuring that those roads are fit for purpose and, in line with our Asset Management Strategy and the “Well Managed Highway Infrastructure: Code of Practice” the team deliver a well-maintained network which contributes to the local economy and works to make the best use of the methods and materials available to prolong the life of our infrastructure, or to re-new it.

The Senior Engineer role is very varied and involves the gaining of experience, knowledge and expertise in Highways Maintenance Design. As a Senior Engineer Maintenance Design you will:

- Be able to identify appropriate treatments and materials for defective situations taking into account the life cycle of the asset.
- Prepare and supervise others in the preparation of scheme drawings, bills of quantities and other documentation for the highway maintenance schemes you are involved in.
- Carry out as well as supervising others in the detailed design of highway maintenance schemes
- Prepare and supervise others in the preparation of technical and financial reports to ensure all schemes are appropriately approved and authorised for construction.
- Liaise with other departments to identify any other works that could be included and delivered at the same time as your schemes.
- Apply for road closures, notices, permits (where applicable) liaising with the Streetworks (NRSWA) team to compliment the programmes.
- Understand the principals of an NEC contract to assist in the management of contractors
- Use your skills and attributes to manage and prioritise your workload to achieve the required deadlines and outcomes.
- Undertake the relevant duty holder’s role under the Construction (Design and Management) Regulations 2015, in particular as Designer
- Undertake supervision of works being undertaken as a result and keep clear and accurate records of those inspections.
- Undertake and supervise others in the undertaking of project management including managing project budgets
- Investigate and respond to requests from members of the public, Councillors and MP’s and understand the need for effective and efficient communication, both written and verbal
- You will need a full and valid driving licence and be willing to undertake a Kirklees Council driving assessment.

Kirklees Council - Senior Engineer – Highways Structures Team, Senior Engineer

Kirklees Council's Highways Structures Team works closely with colleagues across the Council, with organisations such as Network Rail, Canal and River Trust, Highways England, Sustrans, utility companies as well as contractors. The Council manages a significant structures portfolio including 750 bridges, culverts, footbridges and 400km of highway retaining walls together with other structures for which the Council are wholly or partially responsible. The team manages these structural assets including ensuring delivery of schemes in the capital plan and other projects including section 38, 278 developer schemes and the West Yorkshire transport fund programme.

As a Senior Engineer in the Highways Structures team you will:

- Undertake project and programme management, assisting with the management of resources and budgets.
- Undertake the design and procurement of new and strengthening of highway structures.
- Assist with contract management and undertake site supervision of strengthening, repair and reconstruction works delivered by both external contractors and in-house construction teams.
- Undertake General and Principal Inspections of highway bridges, culverts, footbridges, subways and sign gantries. Undertake structural assessments of highway bridges, culverts, footbridges, subways and sign gantries with a complexity commensurate with the grade.
- Undertake and manage unprogrammed inspections of highway structures including highway retaining walls.
- Undertake the relevant duty holder's role under the Construction (Design and Management) Regulations 2015, in particular, Designer and Principal Designer, for schemes with a complexity commensurate with the grade.
- Respond to reports of structural collapses and other defects which impact on the highway, as directed by the Principal Engineer or Bridges Manager.
- Provide technical input into Section 38/278 and private developments in relation to new highway structures, for structural issues with a complexity commensurate with the grade.
- Assist with the technical approval of developer-led design of highway structures and private structures located within the highway boundary.
- Assist with the management of abnormal load movements throughout the district.
- Be responsible for the wellbeing of yourself and others on a day to day basis and assist with the management and mentoring of Engineers and Apprentices within in your team, including 1-2-1's, appraisals etc.
- Liaise, advise and work closely with Councillors and communities as well as external organisations (including statutory

- undertakers) on structural issues appropriate to your grade. Understand the need for effective and efficient communication, both written and verbal.
- Need a full and valid driving licence, and a willingness to undertake a Kirklees Council driving assessment, or ability to use public transport, whichever method is the most appropriate and cost effective. The post, whilst being predominantly office-based, also involves undertaking site inspections, and attending site meetings and meetings at others' premises.