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Meath County Council Newtown Trim Active Travel Scheme

DMURS Quality Report (Including Stage 1/2 Road Safety Audit)



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Project Ireland
2040



NEWTOWN TRIM ACTIVE TRAVEL SCHEME

DMURS Quality Audit (Including Stage 1/2 Road Safety Audit)

Document Control Sheet

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1.0 INTRODUCTION

1.1 DESCRIPTION OF THE SCHEME

1.1.1 Background

TOBIN Consulting Engineers have been commissioned by Meath County Council to provide design consultancy services for the Newtown Road Trim Active Travel Scheme. This DMURS Quality Audit report aims to assess the scheme from the perspective of the Design Manual for Urban Roads and Streets on aspects of safety, accessibility and streetscape.

This project includes the provision of new/improved pedestrian facilities along the Newtown Road (L8017) and a section of the Old Lackanash Road (L8016) in Trim, connecting the R161 Navan Road to existing pedestrian infrastructure on the L8016 Old Lackanash Road. The proposed scheme will provide continuity of pedestrian facilities from the N161 to the R154 on the South and Eastern side of a large housing development on the outskirts of the town.

New infrastructure will aim to connect to existing on the R161 at the junction with the L8017 and will follow the L8017 south for a distance 470m. From this point the pedestrian facilities will be taken offline into a green field site on the Western side of the Newtown Road for a distance of 200m. The offline facilities will then connect into an existing path which provides pedestrian access to the Newtown Abbey Housing estate from the Old Lackanash Road. The total length of the scheme is approximately 675m (Figure 1-1).

Trim is a heritage town situated on the River Boyne and is noted for Trim Castle the largest Norman Castle in Ireland. The Trim community has a very strong pride of place having recently won the Irish Tidy Towns Competition 2022. Trim lies within easy reach of Navan and Dublin, located in the southwest of County Meath. The medieval walled town of Trim has immense heritage significance and is located circa 14km from Navan and 20km from Dunshaughlin. The town enjoys the benefits of being located in an attractive setting along the banks of the River Boyne. The town and Trim Castle attract over 100,000 visitors a year and is well known internationally. Trim is identified for inclusion in the Urban Regeneration and Development Fund due to the high level of employment in the town. A range of enterprises are present in a compact attractive town centre, supporting employment opportunities. There are also enterprise zones at Oaktree Business Park, Scurlockstown Business Park and employment lands to the south of the Navan Road.

This scheme will deliver high quality pedestrian facilities along a busy section of road that has no, or substandard pedestrian facilities. It will improve safety for pedestrians by the provision of dedicated walking facilities with public lighting. It will create a sustainable mode of active travel access to the primary and secondary schools in the town and to local amenities. It will provide improved linkages to public transport on the R161 and the R154 and will encourage walking as a sustainable mode of transport for workers in the Town Centre and the Trim Retail Park. It is envisaged that most of the new walking facilities can be accommodated in the road curtilage, but some additional lands may be required from private landowners.

1.1.2 The Scheme

The proposed development will consist of:

- Provision of pedestrian facilities along Newtown Road (L8017).
- Provision of pedestrian facilities along offline section on greenfield site North of the Old Lackanash Road (L8016)/Newtown Road (L8017) Junction.
- Provision of an earth retaining structure along the Newtown Road to provide cross-sectional width for pedestrian facilities.
- All associated ancillary highway works relevant (drainage, utilities, public lighting, KFLPA, signs and lines and pavement design).

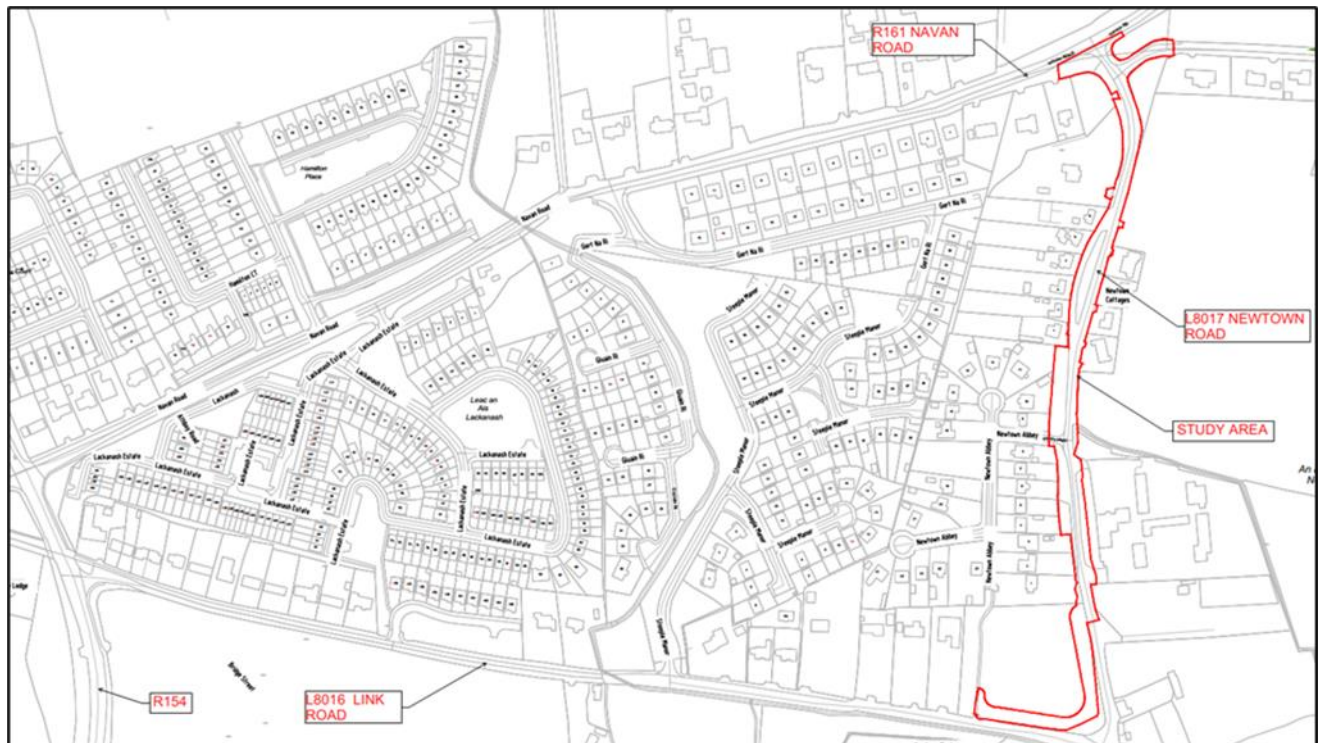


Figure 1-1 Proposed Scheme Extents

2.0 QUALITY AUDIT

Quality Audit is a defined process, independent of, but involving, the design team that, through planning, design, construction and management stages of a project provides a check that high quality places are delivered and maintained by all relevant parties, for the benefit of all end users. Quality Audit is a process, applied to urban roads, traffic management or development schemes, which systematically reviews projects using a series of discrete but linked evaluations and ensures that the broad objectives of place, functionality, maintenance and safety are achieved.

Quality Audit was introduced in the publication Design Manual for Urban Roads and Streets following concerns that in the design of new streets provisions made for motor vehicles frequently led to a poorly-designed public realm. In an urban area there is a high level of competing demand from different classes of road users. A well-balanced street should have minimal visual clutter and obstacles; incorporating durable materials and most importantly, will encourage a degree of negotiation between road users as they make their way through it.

Quality Audit involves various assessments of the impacts of a street scheme in terms of road safety, visual quality and the use of streets by the community. Access for people with additional needs, pedestrians, cyclists and drivers of motor vehicles is considered.

In the context of a Quality Audit, a road safety assessment is considered to be an appropriate method of examining road safety issues as it incorporates both the hazard identification techniques used in road safety audit (RSA) and formal risk assessment techniques. This allows the opportunity at an early stage for road safety issues to be considered in a more dynamic way within the design process, and to ensure that safety issues are considered as part of the design rather than after design work is completed.

The Quality Audit Team reports findings with suggestions for future action. It should be noted that, in a Quality Audit, it is not the intention that suggestions would be binding on the design team; they are offered for detailed consideration in the design process.

DMURS states that Quality Audits should consist of the following parts:

- DMURS Street Design Audit
- Individual Design Audits
- Quality Audit Report

3.0 METHODOLOGY

The Design Audit Team for the Quality Audit (Independent of the Road Safety Audit Team – Outlined in Chapter 5) was as follows:

- Ronan Murtagh Chartered Engineer MIEI
- David McHugh Associated Engineer MIEI

Road safety, non-motorized users, visual quality, people with additional and functionality were considered in the Quality Audit. This exercise focused on issues such as:

- the design rationale as it related to vehicle, cycle and pedestrian movements;
- pedestrian desire lines both to and through the site;
- access requirements for all modes of transport;
- access requirements for disabled people and other vulnerable users;
- any road safety concerns associated with the scheme;
- the visual appearance of the scheme as it is experienced by those entering it and moving around within the street, including how this affects road user behavior; and
- any other issues considered relevant to each constituent element of the Quality Audit process.

Multiple Site Visits have been carried out by the Audit Team to enable the generation of the Quality Audit and the individual audits within. These site visits included:

- Assessment of existing infrastructure for Walkability, Accessibility and Cycle Audit

The documents provided for the audit were:

Drawing Number	Drawing Title
11587-2000	Location Map
11587-2001	Scheme Plan
11587-2002-2004	Area provided by employer
11587-2100-2102	Site Clearance
11587-2200-2202	Drainage Plan
11587-2300-2310	Geometric Design
11587-2420-2422	Kerbing and Paved Areas
11587-2500-2502	Traffic Signs and Road Markings
11587-2580-2582	Public Lighting
11587-2800-2802	Landscaping
11587-2900-2902	Earthworks

Copies of these audited drawings are contained in Appendix B of the Part 8 Particulars.

In accordance with DMURS Advice Note No. 4 May 2019 (contained on <https://www.dmurs.ie/supplementary-material>) a Quality Audit should always contain a DMURS Street Design Audit and Other Design Audits (as required). Section 4 of this report contains the Street Design Audit and Section 5 contains the Other Design Audits (Road Safety, Walking, Cycling, Accessibility). The Street Design Audit is in the format provided as a template on the DMURS website.

4.0 STREET DESIGN AUDIT

The use of DMURS in urban areas is mandatory and the DMURS Street Design Audit is an auditing tool that can be used to ensure that the relevant issues contained within DMURS have been duly considered.

The DMURS Street Design Audit is primarily concerned with four major aspects of street design:

- Connectivity
- Self-Regulating Street Environment
- Pedestrian and Cycling Environment
- Visual Quality

The Street Audit focuses on ensuring a place based / integrated approach to design has been incorporated and based around 4 core principles:

1. To support the creation of integrated street networks which promote higher levels of permeability and legibility for all users, and in particular more sustainable forms of transport. – DMURS Chapter 3
2. The promotion of multi-functional, place-based streets that balance the needs of all users within a self-regulating environment – DMURS Chapter 4
3. The quality of the street is measured by the quality of the pedestrian environment – DMURS Chapter 4
4. Greater communication and co-operation between design professionals through the promotion of a plan-led, multidisciplinary approach to design – DMURS Chapter 5

The DMURS Street Design Audits consists of a series of short tables that can be used to cross check a design against the principles, approaches and standards contained within DMURS. In doing so, it should be clear that:

- The issue is relevant or not relevant.
- The issue has been considered in accordance with the principles of DMURS.
- The issue is addressed in a more detailed design audit (see Section 3.2)
- The relevant approach or standard has been applied.
- Or if not, why not, and what mitigation measures have been applied (i.e. what is the alternative solution).

The Street Design Audit for the Newtown Trim Active Travel Scheme has been carried out using the template as provided from www.dmurs.ie and is shown below

Design Manual for Urban Roads and Streets

Street Design Audit

Prepared in respect of: *Newtown Road Active Travel Scheme*

Prepared by: *TOBIN Consulting Engineers*



Date: *26/07/2023*

Connectivity & Connected Networks

Key Issues	Key DMURS Reference.	Design Response
Strategic routes/major desire lines have been identified and are clearly being incorporated into the design.	3.1 – Integrated Street Network	This scheme will complete missing pedestrian connectivity along the Newtown Road (L8017) and Old Lackanash Road (L8016) in Trim, connecting the R161 to the R154 on the south and eastern side of a large housing development on the outskirts of the town. The Scope of the project is to provide updated junction arrangements that provide multiple controlled crossing points along the R147, including a signalised crossing at the R147 / The Dales to help significantly improve permeability.
	3.2.1 – Movement Function	This scheme will deliver high quality pedestrian facilities along a busy section of road that has no, or substandard pedestrian facilities. The scheme aims cater for the movement of a greater number of pedestrians.
	3.3.1 – Street layouts	The design will provide upgraded pedestrian facilities along the Old Lackanash Road (L8016) and complete missing sections of footpath along western side of the Newtown Road (L8017) making wayfinding easier and safer for vulnerable road users.
	3.3.4 - Wayfinding	Improved alignment and desire lines are being provided for pedestrians through improved alignments and upgrading existing footpaths.
Improvements to points of access are provided to the site/place, in particular for sustainable modes.	3.3.1 – Street Layouts	No new points of access are being created as part of this design. The existing access points have been improved by realigned footpaths. A section of the proposed footway alignment is moved offline from the carriageway which will minimise potential conflict points with motorised road users and vulnerable road users.
	3.3.3 – Retrofitting ¹	This project retrofits an existing urban street with new footpaths which will improve pedestrian connectivity between the R161 and the R154.

¹ When connecting with existing communities a detailed analysis and extensive community consultation should be carried out to identify the optimal location for connections (refer also to the NTA Permeability in Existing Urban Areas: Best Practice Guide).

<p>Accessibility throughout the site is maximised for pedestrians and cyclists, ensuring route choice.</p>	<p>3.3.1 – Street Layouts 3.3.2 – Block Sizes 3.4.1 – Vehicle Permeability</p>	<p>The provision of a new footpath and upgrade of existing sections will improve pedestrian connectivity along the Newtown Road (L8017) and Old Lackanash Road (L8016) in Trim. The continuation of footpath facilities and provision of a crossing point linking the carpark to the south of the Old Lackanash Road to the footpath on the Northern side of the road will increase permeability.</p> <p>The design increases permeability and legibility by providing new a new designated footpath along the Northern side of Old Lackanash Road and Western side of the Newtown Road which currently does not exist making wayfinding easier and safer for vulnerable road users.</p> <p>Design has included raised tables, signage to help maintain low operational speeds. Vehicle permeability is retained to all private and public accesses however a much greater control has been placed on the access and egress points to the carriageway by limiting the junction radii to 6m and inclusion of raised table crossing points. Due to the limited space available an offline cycling provisions has not been provided on the scheme.</p>
<p>Through movements by private vehicles on local streets are discouraged by an appropriate level of traffic calming measures.</p>	<p>3.2.1 – Movement Function 3.2.3 – Place Context 3.4.1 – Vehicle Permeability</p>	<p>The development is the provision of a new footpath and upgrade of existing sections will improve pedestrian connectivity along the Newtown Road (L8017) and Old Lackanash Road (L8016) in Trim.</p> <p>The scheme is situated on the south and eastern side of a large housing development on the outskirts of the town. This scheme will complete missing pedestrian connectivity along the Newtown Road (L8017) and Old Lackanash Road (L8016) in Trim, connecting the R161 to the R154. Footpath realignments and material proposals aim to cater for the higher levels of pedestrian movements whilst focusing on design elements to calm traffic and increase ease of movement for more vulnerable road users.</p>

Self-Regulating Street Environment & Multi-Functional Streets

Key Issues	Key DMURS Reference.	Design Response
A suitable range of design speeds have been applied with regard to context and function.	3.2.1 – Movement Function. 3.2.2 – Place Context. 4.1.1 – A Balanced Approach to Speed ²	The scheme is situated on the south and eastern side of a large housing development on the outskirts of the town. Footpath realignments and material proposals aim to cater for the higher levels of pedestrian movements whilst focusing on design elements to calm traffic and increase ease of movement for more vulnerable road users.
The street environment will facilitate the creation of a traffic calmed environment via the use of 'softer' or passive measures. ³	4.2.1 – Building Height and Street Width 4.2.2 – Street Trees 4.2.3 – Active Street Edges 4.2.4 – Signage and Line Marking	<p>Introduction of a defined footpath width, kerbing and raised tables intend to reduce the current operational speed at junctions and complement existing traffic control measures i.e. speed ramps, vehicle activation signs and signalised crossings.</p> <p>Low corner radii will ensure vehicles entering or leaving public and private accesses centre can only do so at low speed to again generate a softer traffic calmed environment.</p>

² Refer also to the National Speed Limit Guidelines

³ In retrofit situations a detailed analysis should be carried out to establish what measures exist, what their likely effectiveness is and level of intervention required to achieve the designed design speed.

	<p>4.2.7 – Planting</p> <p>4.4.2 – Carriageway Surfaces</p> <p>4.4.9 – On-Street Parking</p> <p>Advice Note 1 – Transitions and Gateways</p>	
<p>A suitable range of design standards/measures have been applied that are consistent with the applied design speeds.</p>	<p>4.4.1 – Carriageway Widths</p> <p>4.4.4 – Forward Visibility</p> <p>4.4.5 – Visibility Splays</p> <p>4.4.6 – Alignment and curvature</p> <p>4.4.7 – Horizontal and Vertical Deflections</p> <p>Advice Note 1 – Transitions and Gateways</p>	<p>Design standards as outlined in DMURS have been adopted to improve the existing carriageway widths, road geometry, forward and junction visibilities and horizontal and vertical deflections throughout the scheme.</p>

Pedestrian and Cycling Environment

Key Issues	Key DMURS Reference.	Design Response
The built environment contributes to the creation of a safe and comfortable pedestrian environment.	4.2.1 – Building Height and Street Width 4.2.3 – Active Street Edges 4.2.5 – Street Furniture 4.4.9 – On-Street parking	<p>Given constraints on cross sectional width and focus on providing pedestrian facilities along the L8017 Newtown Road where no pedestrian facilities are currently present, no offline cycle facility is being provided. Low operational speeds offer predictability will provide safety to cyclists using the carriageway.</p> <p>The dwellings along the scheme are set back from the carriageway edge with accesses off the street. The active street edges will take cognisance of pedestrians, cyclists and motorised users.</p>
Junctions been designed to ensure the needs of pedestrians and cyclists are prioritised ⁴ .	4.3.2 – Pedestrian Crossings 4.3.3 – Corner Radii 4.4.3 – Junction Design 4.4.7 – Horizontal and Vertical Deflections	<p>The pedestrian facilities are proposed with contrasting material finishes adjacent to the carriageway to deliver additional safety and visibility to pedestrians.</p> <p>No swept path analysis were provided but the design team appears to have tried to ensure that corner radii are kept low, but also facilitating delivery vehicles at priority junctions.</p> <p>There are natural vertical deflection along the approaches in towards the town centre, along with the low corner radii and high walls, force road users to slow their vehicles in order to comfortably navigate through the town.</p>

⁴ Refer also to the National Cycle Manual (2011)

Footpaths are continuous and wide enough to cater for the anticipated number of pedestrian movements.	3.2.1 – Movement Function. 3.2.3 – Place Context. 4.2.5 – Street Furniture 4.3.1 - Footways, Verges and Strips 4.3.2 - Pedestrian Crossings	Continuous footpaths are being provided as part of the proposed design across multiple vehicular access points including provision of a new offline section with amenity areas. Footways are typically 1.8m - 2.5m in width, widening to 2.5m in the offline sections. Benches and amenity areas will be provided along the offline pedestrian section.
The particular needs of visually and mobility impaired users been identified and incorporated in the design.	4.2.5 - Street Furniture 4.3.1 - Footways, Verges and Strips 4.3.2 - Pedestrian Crossings 4.3.4 - Pedestrianised and Shared Surfaces	The Designer has been cognisant of the use of tactile paving, kerbing at shared surfaces, pedestrian crossings and height changes between areas in the proposed design to consider needs of visually and mobility impaired users. The Designer is ensuring a fully accessible scheme featuring material changes that caters for all mobility impaired users throughout.
Cycling facilities will cater for cyclists of all ages and abilities. ⁵	3.2.1 – Movement Function. 3.2.3 – Place Context. 4.3.5 - Cycle facilities.	Given width constraints and the focus on prioritising pedestrian facilities, space is not available with in the scheme to provide an offline cycle facility. Cyclists will share the carriageway other wheeled road users. The low corner radii and footpath realignments and shared spaces will reduce the operational speeds and improve safety for cyclists.

Visual Quality

⁵ Refer also to the National Cycle Manual (2011)

Key Issues	Key Considerations and DMURS Ref:	Design Response
<p>The landscape plan responds to the street hierarchy and the value of the place.</p>	<p>3.2.1 – Movement Function. 3.2.3 – Place Context. 4.2.2 – Street Trees 4.2.7 – Planting Advice Note 1 – Transitions and Gateways</p>	<p>TOBIN Consulting Engineers are liaising with Meath County Council and will continue to do so with engaged stakeholders at detailed design stage to ensure that the landscape plan is in keeping with the Planning specifications of the area and all other proposed works in Trim to ensure the project takes cognisance of the cultural heritage and aesthetic value of the town.</p>
<p>Street furniture is orderly placed.</p>	<p>3.2.1 – Movement Function. 3.2.3 – Place Context. 4.2.5 - Street Furniture. 4.3.1 Footways, Verges and Strips</p>	<p>Street Furniture will be placed cognisant of pedestrian desire lines, footpath widths and likely use of the various zones within the scheme extents.</p> <p>Selection of Street furniture type at detailed design will be cognisant of the place profile and be in keeping with the existing environment.</p>
<p>The use of signage and line marking has been minimised.</p>	<p>3.2.1 – Movement Function. 3.2.3 – Place Context.</p>	<p>Signage and line markings have been minimised within the scheme extents in favour of using material and colour changes to inform all road users.</p>

	4.2.4 - Signage and Line Marking.	
Materials and finishes used throughout the scheme have been selected from a limited palette and respond to the value of the place?	<p>3.2.1 – Movement Function.</p> <p>3.2.3 – Place Context.</p> <p>4.2.6 – Materials and Finishes</p> <p>4.2.8 – Historic Contexts.</p> <p>4.3.2 – Pedestrian Crossings</p> <p>4.4.2 – Carriageway Surfaces</p> <p>Advice Note 2 – Materials and Specifications</p>	<p>Materials and finishes will be chosen at detailed design stage in consultation with Meath County Council and following close consideration of the historic context of the area.</p> <p>Full consideration will be given to construction guidance as outlined in DMURS Advice Note 2 – Materials and Specifications to ensure that appropriate surface and sub surface materials and construction are implemented.</p> <p>TOBIN are engaging with Meath County Council Planning department along with planners to ensure a design in keeping with the area and in keeping with the long-term development and planning strategy for the town of Trim.</p>
Additional Comments		

Personnel Information			
	Name	Date	Signature
Report Prepared By:	Ronan Murtagh C.Eng	26/07/2023	
Principle Designers	David McHugh	26/07/2023	

5.0 ROAD SAFETY AUDIT

A Stage 1/2 Audit has been carried out in accordance with the relevant sections of Transport Infrastructure Ireland Publication (Standards) “Road Safety Audit” GE-STY-01024 (December 2017). The team have examined and reported only on the road safety implications of the design submitted and has not examined or verified the compliance of the design to any other criteria.

The Road Safety Audit Report has been included in Appendix A to this report.

Appendix A - Stage 1/2 Road Safety Audit Report



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MEATH COUNTY COUNCIL

Newtown Road Trim Active Travel Scheme

Road Safety Audit – Stage 1-2



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1. INTRODUCTION

1.0 INTRODUCTION

This report describes the Stage 1-2 Road Safety Audit carried out for the detailed design of pedestrian facilities along the Newtown Road (L8017) and Old Lackanash Road (L8016) in Trim, Co. Meath. The scheme location is shown in Figure 1-1 . The extent of the Road Safety Audit is shown in Figure 1-2.

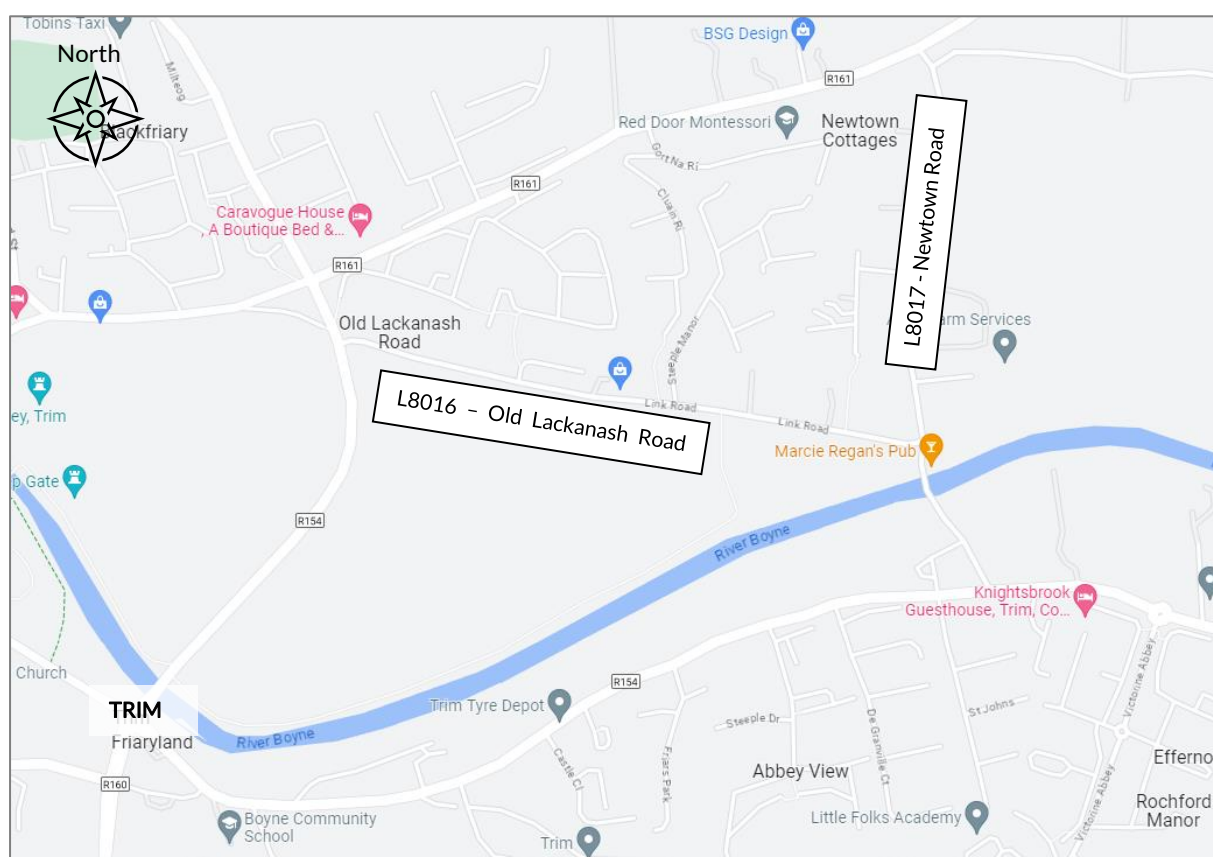


Figure 1-1 Scheme Location Map (©Google Maps)

1.1 PROPOSED SCHEME

The proposed scheme commences at the junction of the L8017 with the R161 and continues south on the L8017 to the junction of the L8016. The scheme also includes off-road footpaths in the vicinity of the L8017 / L8016 junction. The scheme is on the local roads, Newtown Road (L8017) and Old Lackanash Road (L8016). The scheme is urban within a 50km/h speed limit with existing public lighting.

The active travel scheme will improve the existing footway width and junction treatments on the L8017 and provision of continuous footway on the R161 regional road. The scheme includes for all ancillary drainage, road marking and signage.



Figure 1-2 Extent of the Road Safety Audit

1.2 COLLISION DATA

Collision data has not been supplied with this scheme.

Road Collision Data is not currently available on the Road Safety Authority Database, and therefore the audit team has no access to the historical collision information for this site and / or adjacent roads.

1.3 AUDIT DETAILS

The audit took place in TOBIN Offices in May 2023. The audit comprised an examination of the documents provided by the Design Team and are listed in Appendix A. A site visit was carried out on Thursday, the 4th of May 2023 between the hours of 15:15-16:20hr. During the site visit the weather was dry and the road surface was dry.

The audit team members were as follows, and are approved by TII, refer to Appendix B:

Audit Team Leader

- Laura Gaffney – MSc. Env. Eng., BEng (Hons) Civil Eng., CEng., MIEI. Senior Engineer for Roads & Transportation, TOBIN Consulting Engineers – TII Reference LG3386505

Audit Team Member

- Maria Rooney – BEng (Hons) Civil Eng., MEng, MIEI. Senior Engineer for Roads & Transportation, TOBIN Consulting Engineers. – TII Reference MR3384505

Audit Team Observer

- Gabriela Iha – BEng Civil Eng., MSc, MIEI. Design Engineer for Roads & Transportation, TOBIN Consulting Engineers.

This Stage 1/2 Audit has been carried out in accordance with the relevant sections of Transport Infrastructure Ireland Publication (Standards) “Road Safety Audit” GE-STY-01024 (December 2017). The team have examined and reported only on the road safety implications of the design submitted and has not examined or verified the compliance of the design to any other criteria. However, to clearly explain a problem or a recommendation, it may be necessary to refer to another Standard or Advice Note, but such reference will not conflict with the requirements of the above Terms of Reference.

The Design Team and Employer (Client) is reminded that the Road Safety Audit Feedback Form, in Appendix C, shall be completed and returned to the Road Safety Audit Team Leader for sign off.



2. ITEMS RESULTING FROM THIS ROAD SAFETY AUDIT

2.1 GENERAL

2.1.1 Problem

Sign Mounting

The Audit Team noted no mounting height details have been provided. The Audit Team are concerned pedestrians may collide with inappropriate mounted signage.

Recommendation

The design team should provide signage with suitable mounting height in accordance with the Traffic Signs Manual (TSM).



2.2 OLD LACKANASH ROAD L8016

2.2.1 Problem

Pedestrian Connectivity

The Audit Team note no link is proposed between the existing and proposed footway at the desired crossing point of the Old Lackanash Road. The Audit Team are concerned that pedestrians may jump from the proposed footpath onto the existing footway over the stone boundary wall. This dangerous behaviour, in close proximity to the live carriageway, may result in a collision between a VRU and a vehicle.

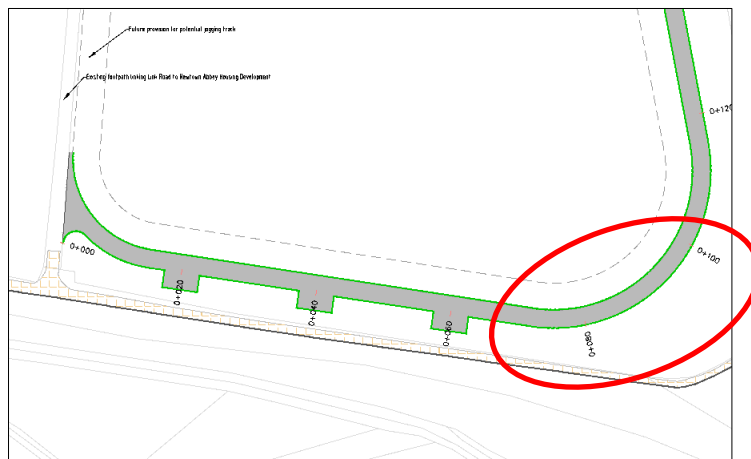


Figure 2-1 Pedestrian Desire Line with existing stone wall (Dwg No. 11587-2420-D02)

Recommendation

The design team should provide a link from the proposed footpath to the footway at the desire line.

2.2.2 Problem

Wheelchair Friendly Slope

The Audit Team noted an existing level difference between the Old Lackanash Road and Newtown Road. The audit team are concerned wheelchair users may have difficulty in traversing the incline between Ch. 80m to Ch. 100m without a level landing over the distance of the incline. This may result in loss of control of a wheelchair on the slope resulting in a fall / collision with boundary treatment.

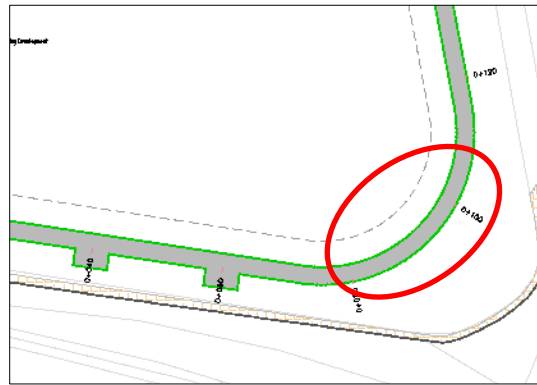


Figure 2-2 Old Lackanash Road/ Newtown Road – Inclined Slope

Recommendation

The design team should provide a level landing on the inclined footway for those with mobility impairments.

2.3 NEWTOWN ROAD L8017

2.3.1 Problem

Footway Existing / Proposed Connectivity to Amenity

The Audit Team noted the proposed footpath does not link to the existing footway. The Audit Team observed the trip attraction of “Regans” on the opposite corner of the junction. The Audit Team are concerned that the pedestrians, in lieu of designated connection, will create a tracked and unpaved connection to the existing footway. This may result in a trip hazard for pedestrians.

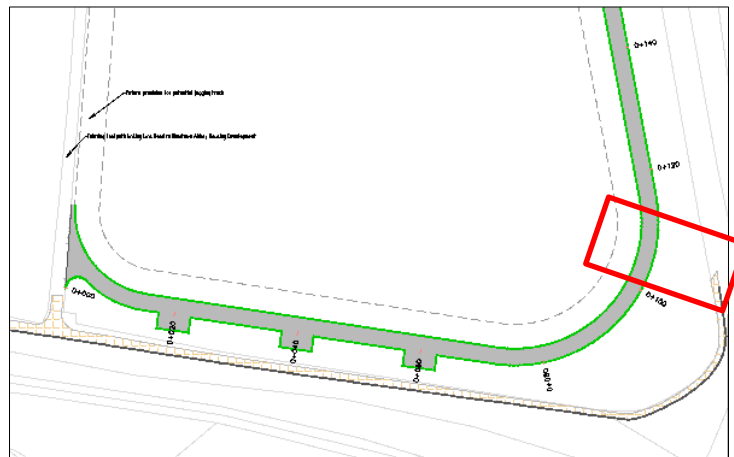


Figure 2-3 Existing / Proposed Footway (Dwg No. 11587-2420-D02)

Recommendation

The design team should provide a footpath on the desire line between the existing and proposed infrastructure.

2.3.2 Problem

End of Footway – Tactile Paving

The Audit Team noted at the end of the footway tactile paving is proposed. The Audit Team are concerned that the tactile provision is the blister buff tactile, which represents an uncontrolled crossing. Incorrect tactile paving may result in confusion to those with visual impairments. This may result in a VRU entering the carriageway in conflict with a vehicle / trip hazard within the grass verge.

LEGEND:

-  Proposed Footway
-  Proposed Tactile Paving (Buff)
-  Raise Table
-  Existing Footpath to be retained

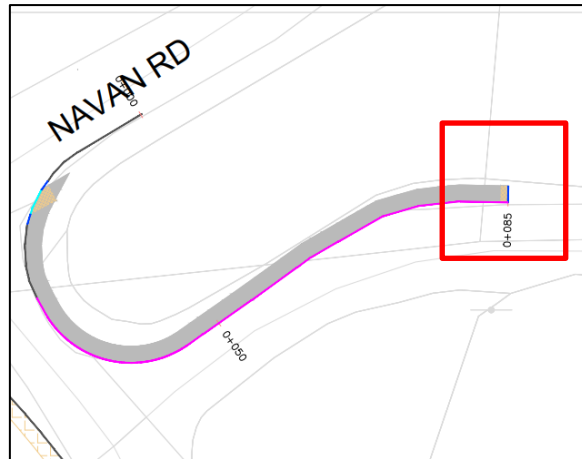


Figure 2-4 Termination of Footway – Incorrect Tactile Paving (Dwg No. 11587-2422-D02)

Recommendation

The design team should provide appropriate tactile paving at the termination of the footway.



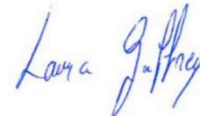
3. AUDIT TEAM STATEMENT

We certify that we have examined the drawings and other information listed in Appendix A and visited the site during the day of the 4th of May 2023. We further certify that we are independent from the design team for the scheme. This examination has been carried out with the sole purpose of identifying any features of the design that could be removed or modified to improve the safety of the scheme. The problems that we have identified have been noted in the report, together with suggestions for improvement that in our opinion should be studied for implementation.

AUDIT TEAM LEADER

Name: Laura Gaffney

Signed:



TII Reference: LG3386505

Date: 03/11/23

Position: Senior Engineer

Organisation: TOBIN Consulting Engineers

Address: Fairgreen House,
Fairgreen Road
Galway,

AUDIT TEAM MEMBER

Name: Maria Rooney

Signed:



TII Reference: MR3384505

Date: 03/11/23

Position: Senior Engineer

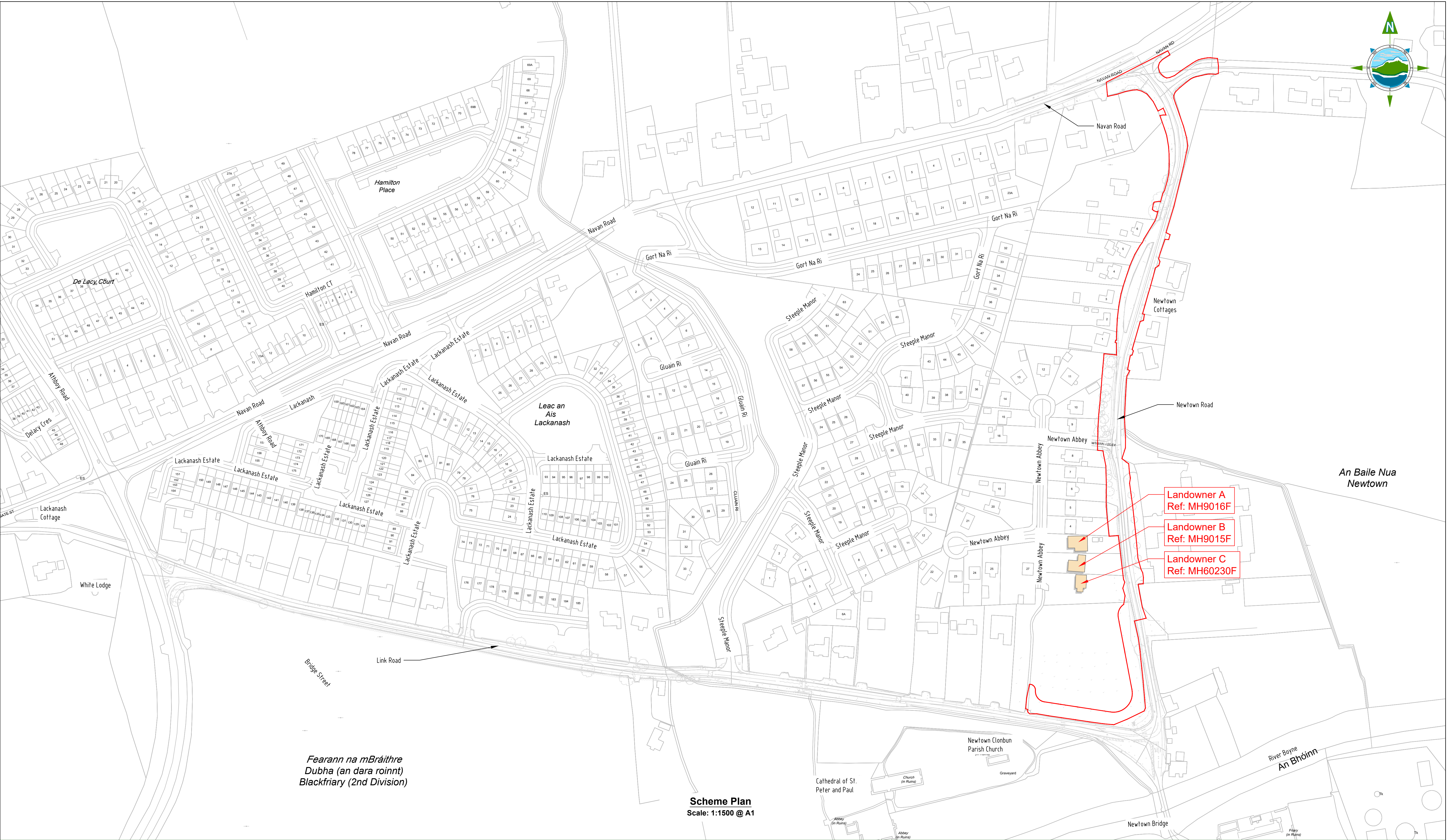
Organisation: TOBIN Consulting Engineers

Address: Fairgreen House,
Fairgreen Road
Galway

Appendix A LIST OF DOCUMENTS EXAMINED


- Report
 - 11587 Newtown Road Trim - Options Selection Report D01
- Drawings
 - 11587 - 2001 Scheme Plan - D03
 - 11587 - 2000 Location Map – D01
 - 11587-2002-2004 Area provided by Employer-D03
 - 11587-2100-2102 Site Clearance-D03
 - 11587-2200-2202 Drainage Plan-D02
 - 11587-2300-2310 Geometric Design-D03
 - 11587-2420-2422 Kerbing and Paved Area-D02
 - 11587-2500-2502 Traffic Sign and Road Markings-D03
 - 11587-2580 -2582 Lighting Plan-D02
 - 11587-2800 -2802 Landscaping-D03
 - 11587-2900-2902 Earthworks & Boundary Treatment - D03





LEGEND					
Area Provided by Employer (APE)					
D02	13/07/23	Planning Issue	KP	DMcH	
D01	30/03/23	Planning Issue	KP	DMcH	
Rev	Date	Description	By	Chkd.	

Client:

 comhairle chontae na mí
meath county council

Project:

Newtown Road Trim Active Travel

Title:

Scheme Plan

Prepared by:

KP

Checked:

DMcH

Date:

July 2023

Project Director:


J.O'F

Drawing Status:

Planning Issue

Scale @ A1:

1:1500



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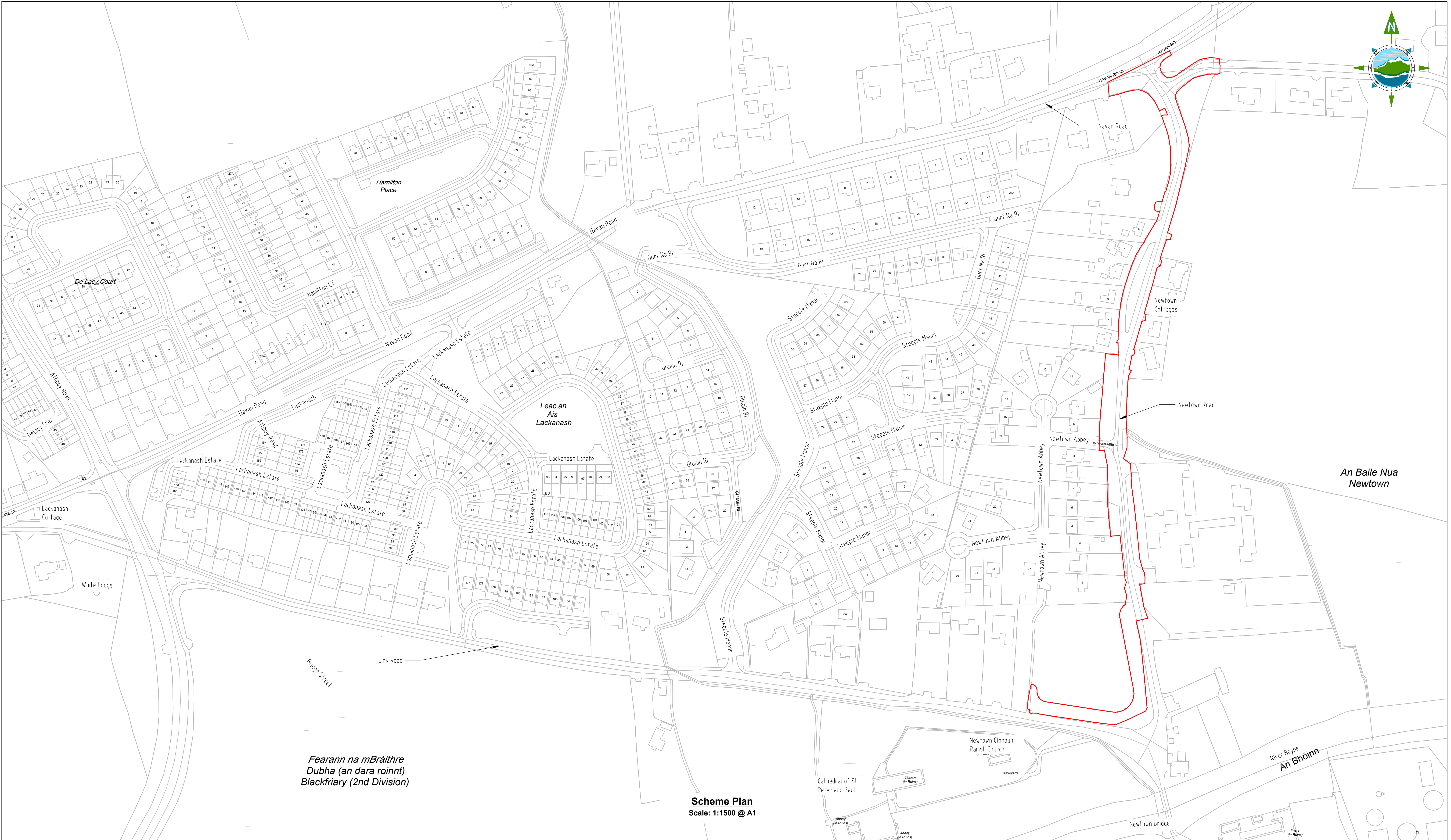
Revision:

D02


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Drawing No.:

11587-2001



Area Provided by Employer (APE) _____

Client:	 comhairle chontae na mí meath county council
Project:	Meath County Council Newtown Road Trim Active Travel
Title:	Scheme Plan

Prepared by:	KP
Checked:	DMcH
Date:	July 2023
Project Director:	J.O'F
Drawing Status:	Planning Issue
Scale @ A1:	1:1500



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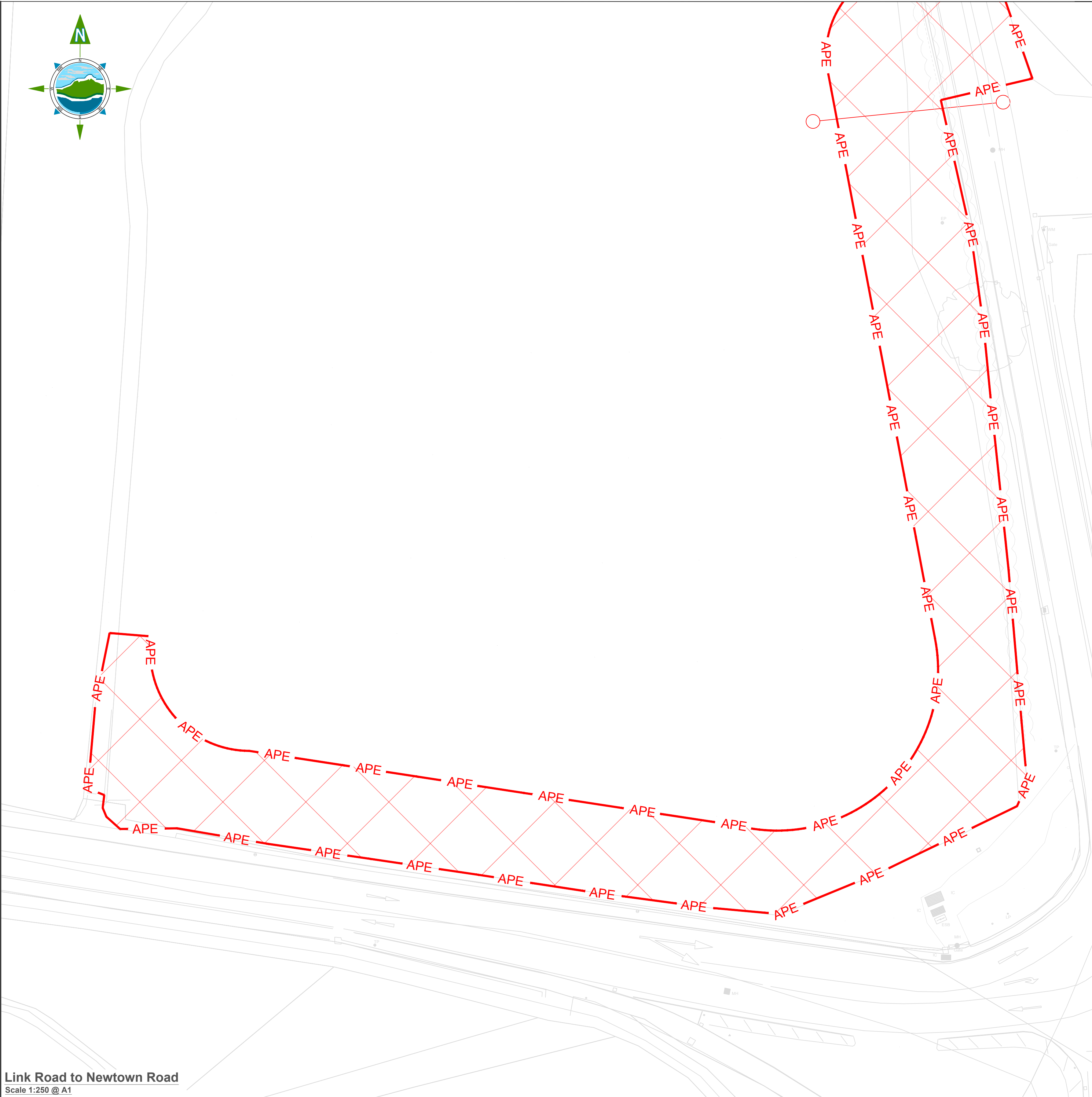
Revision:

D03



D01	28/04/23	Planning Issue	KP	DMcH	
Rev	Date	Description	By	Chkd.	

Client:  comhairle chontae na mí meath county council Meath County Council		Prepared by: KP	 TOBIN Consulting Engineers, Market Square, Castlebar, Co. Mayo, Ireland. tel: +353-(0)94-9021401 fax: +353-(0)94-9021534 e-mail: castlebar@tobin.ie www.tobin.ie <small>TOBIN Consulting Engineers will not be liable for any use of this document for any purpose other than that for which it was originally prepared and provided. Except where specifically and explicitly agreed in writing by TOBIN Consulting Engineers, as copyright holder, no part of this document may be reproduced or transmitted in any form and this document shall not be relied upon by any third party for any purpose.</small>	Revision: D01
Project: Newtown Road Trim Active Travel		Checked: DMcH		
Title: Location Map		Date: 28/04/23		
		Project Director: J.O'F		
		Drawing Status: Planning Issue		
		Scale @ A1: N/A	Drawing No.: 11587-2000	



Link Road to Newtown Road
Scale 1:250 @ A1

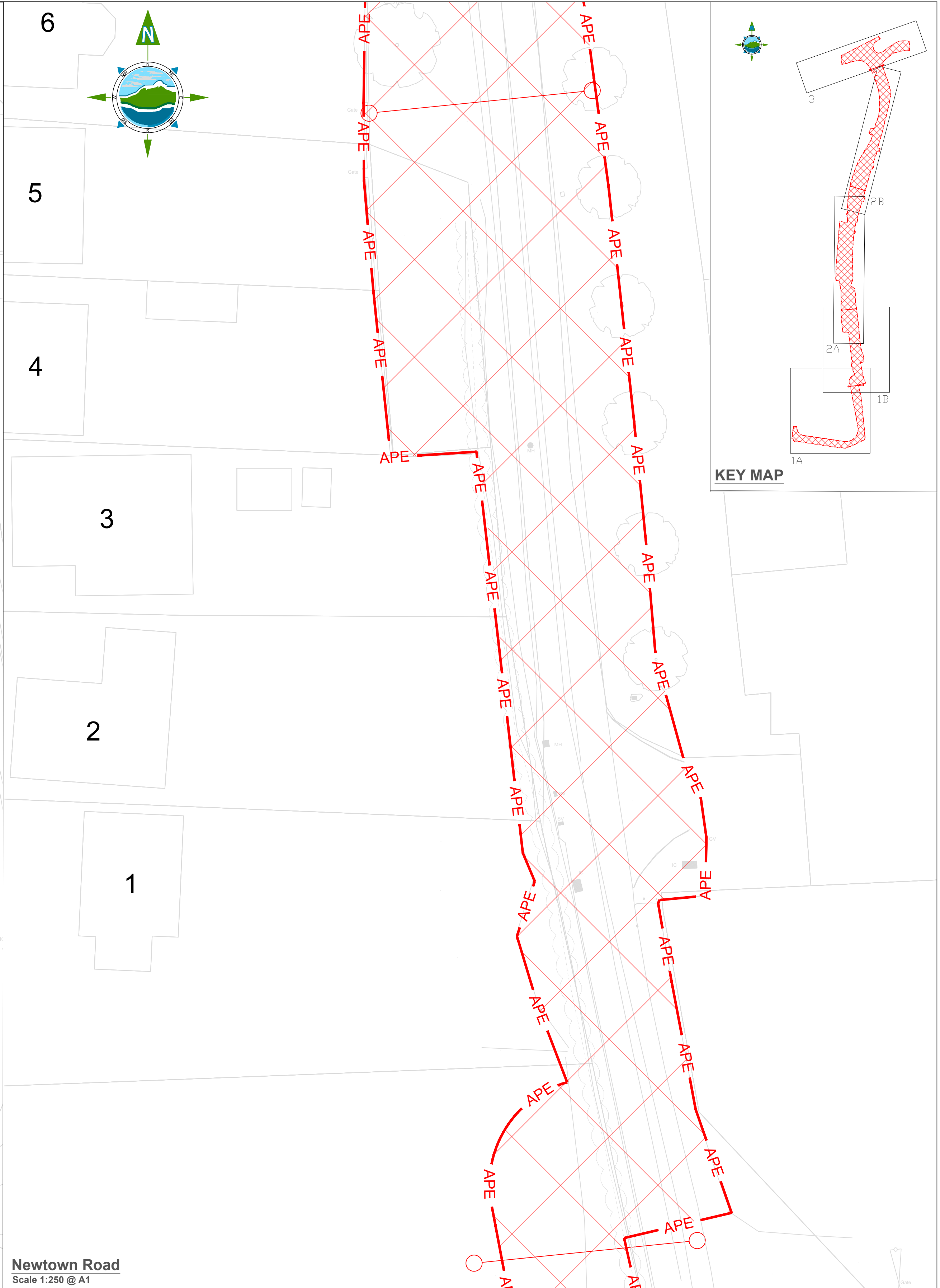
Legend

— APE — Area Provided by the Employer

Notes:


Local Access to be maintained to all properties during works

Rev	Date	Description	By	Chkd.
D03	13/07/23	Planning Issue	KP	DMcH
D02	02/06/23	Planning Issue	KP	DMcH
D01	27/03/23	Planning Issue	KP	RM



Newtown Road
Scale 1:250 @ A1

Client:

 **comhairle chontae na mí**
meath county council

Meath County Council

Prepared by: KP

Checked: RM

Date: July 2023

Project Director: JOF

Drawing Status: Planning Issue

Scale @ A1: 1:250

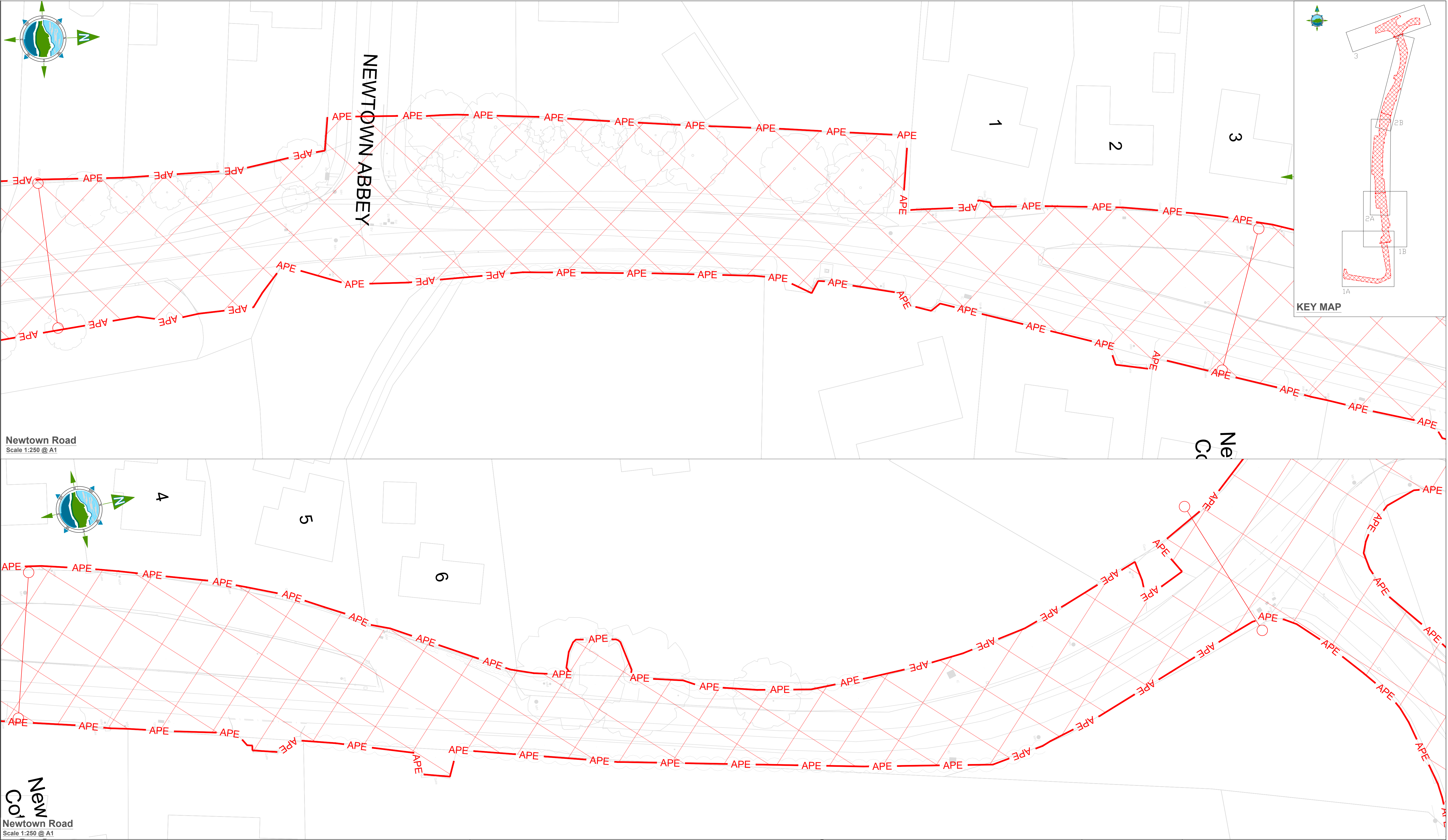
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Revision: **D03**

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Drawing No.: **11587-2002**



Newtown Road
Scale 1:250 @ A1

New Co
Newtown Road
Scale 1:250 @ A1

Legend


— APE — Area Provided by the Employer

Notes:

Local Access to be maintained to all properties during works

D03	13/07/23	Planning Issue	KP	DMcH	
D02	02/06/23	Planning Issue	KP	DMcH	
D01	27/03/23	Planning Issue	KP	RM	
Rev	Date	Description	By	Chkd.	

Client:

 **comhairle chontae na mí**
meath county council

Meath County Council

Project:

Newtown Road Trim Active Travel

Title:

Area Provided By The Employer

Prepared by:

KP

Checked:

RM

Date:

June 2023

Project Director:

JOF

Drawing Status:

Planning Issue

Scale @ A1:

1:250

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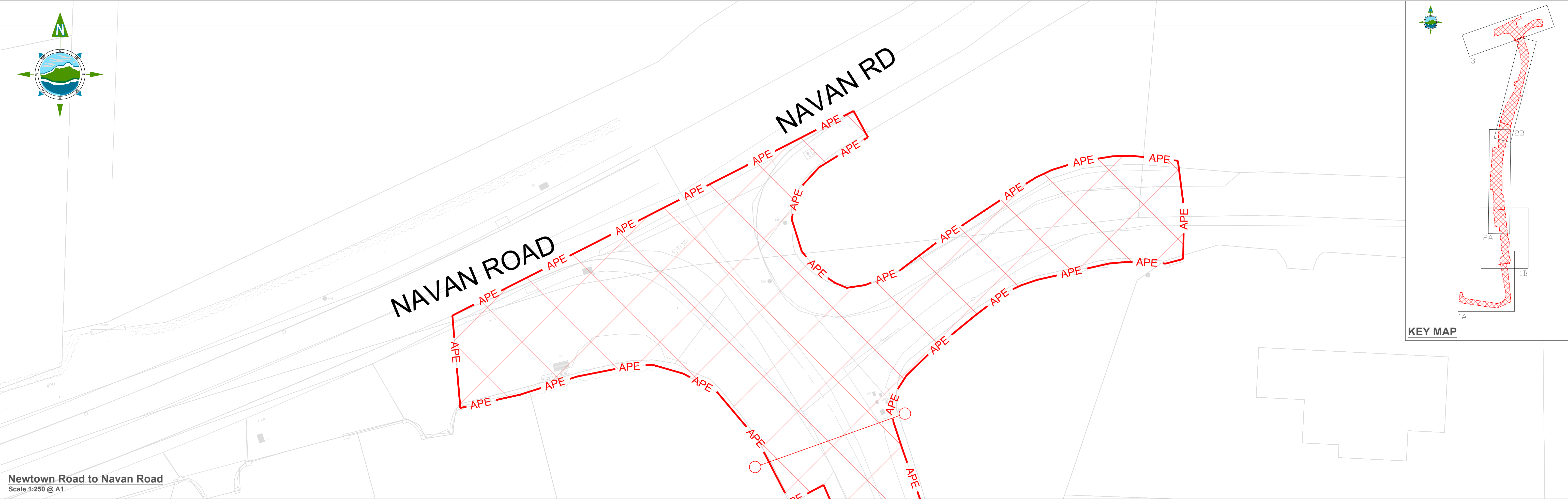
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Revision:

D03

Drawing No.:

11587-2003



Newtown Road to Navan Road
Scale 1:250 @ A1

Legend


— APE — Area Provided by the Employer

Notes:

Local Access to be maintained to all properties during works

D03	13/07/23	Planning Issue	KP	DMcH	
D02	02/06/23	Planning Issue	KP	DMcH	
D01	27/03/23	Planning Issue	KP	RM	
Rev	Date	Description	By	Chkd.	

Client:



comhairle chontae na mí
meath county council

Meath County Council

Project:

Newtown Road Trim Active Travel

Title:

Area Provided By The Employer

Prepared by:

KP

Checked:

RM

Date:

June 2023

Project Director:


JOF

Drawing Status:

Planning Issue

Scale @ A1:

1:250



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Revision:

D03

Drawing No.:

11587-2004



Link Road to Newtown Road
Scale 1:250 @ A1

Newtown Road
Scale 1:250 @ A1

LEGEND:


- General Site Clearance
- Bituminous Footpath to be removed
- Concrete Footpath to be removed
- Vegetation to be removed
- Kerbing to be removed
- Manhole and Gully to be taken up for reuse and reset to edge of finished pavement level
- Utility Covers to be retained and reset to finished pavement level or taken up and set aside for reuse
- Existing Tree to be Retained
- Poles to be relocated
- Sign Post and Faces taken up and set aside for reuse

NOTES:

- These drawings are to be read in conjunction with all other relevant design drawings Refer to Appendix 2/1 for details of Site Clearance
- Refer to Appendix 1/7 for site extent and limitations on road
- Refer to Alterations of Existing Services shown on series 500 Utility Drawings and Appendix 1/16 for details on Relocation of Services
- All boundaries unless otherwise noted are to be retained and all due care shall be taken to their preservation

D03	17/07/23	Planning Issue	KP	DMcH	
D02	01/06/23	Planning Issue	KP	DMcH	
D01	28/04/23	Planning Issue	KP	RM	
Rev	Date	Description	By	Chkd.	

Client:

 **comhairle chontae na mí**
meath county council

Meath County Council

Prepared by: KP

Checked: RM

Date: July 2023

Project Director: JOF

Drawing Status: Planning Issue

Scale @ A1: 1:250

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Drawing No.: **11587-2100**

Revision: **D03**

Project: **Newtown Road Trim Active Travel**

Title: **Site Clearance**



LEGEND:


- General Site Clearance
- Bituminous Footpath to be removed
- Concrete Footpath to be removed
- Vegetation to be removed
- Kerbing to be removed
- Manhole and Gully to be taken up for reuse and reset to edge of finished pavement level
- Utility Covers to be retained and reset to finished pavement level or taken up and set aside for reuse
- Existing Tree to be Retained
- Poles to be relocated
- Sign Post and Faces taken up and set aside for reuse

NOTES:

- These drawings are to be read in conjunction with all other relevant design drawings Refer to Appendix 2/1 for details of Site Clearance
- Refer to Appendix 1/7 for site extent and limitations on road
- Refer to Alterations of Existing Services shown on series 500 Utility Drawings and Appendix 1/16 for details on Relocation of Services
- All boundaries unless otherwise noted are to be retained and all due care shall be taken to their preservation

D03	17/07/23	Planning Issue	KP	DMcH	
D02	01/06/23	Planning Issue	KP	DMcH	
D01	28/04/23	Planning Issue	KP	RM	
Rev	Date	Description	By	Chkd.	

Client:

 **comhairle chontae na mí**
meath county council

Meath County Council

Project:

Newtown Road Trim Active Travel

Title:

Site Clearance

Prepared by:

KP

Checked:

RM

Date:

June 2023

Project Director:

JOF

Drawing Status:

Planning Issue

Scale @ A1:

1:250

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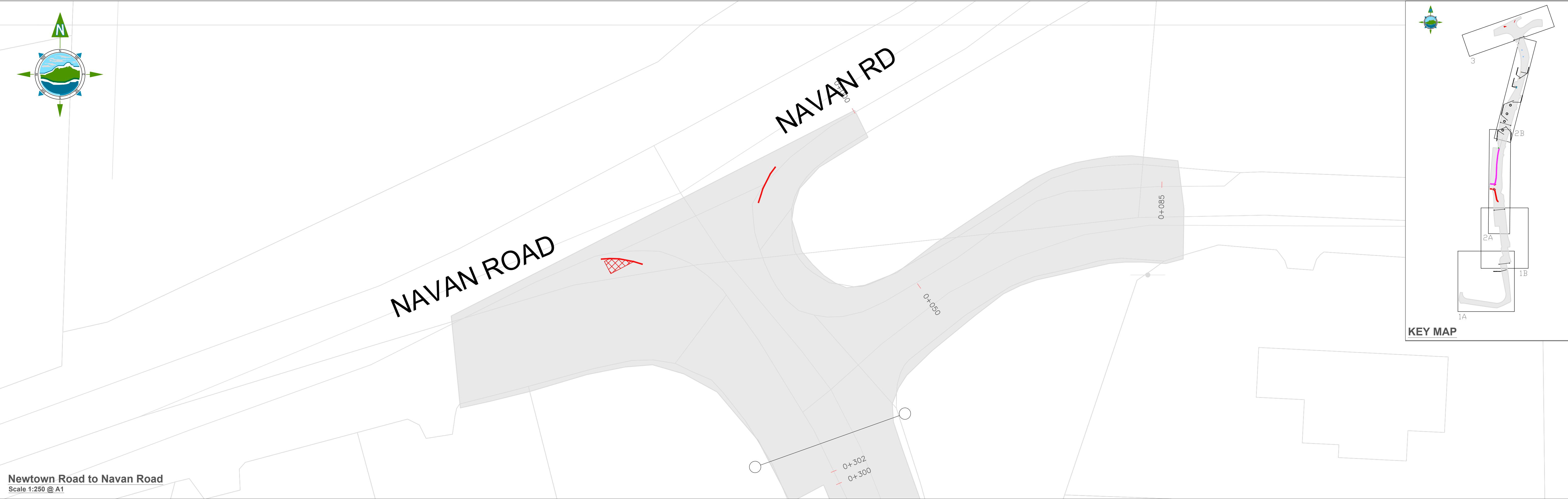
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Drawing No.:

11587-2101

Revision:

D03



LEGEND:

- General Site Clearance
- Bituminous Footpath to be removed
- Concrete Footpath to be removed
- Vegetation to be removed
- Kerbing to be removed

Manhole and Gully to be taken up for reuse and reset to edge of finished pavement level

Utility Covers to be retained and reset to finished pavement level or taken up and set aside for reuse

Existing Tree to be Retained

Poles to be relocated


Sign Post and Faces taken up and set aside for reuse

NOTES:

- These drawings are to be read in conjunction with all other relevant design drawings
- Refer to Appendix 2/1 for details of Site Clearance
- Refer to Appendix 1/7 for site extent and limitations on road
- Refer to Alterations of Existing Services shown on series 500 Utility Drawings and Appendix 1/16 for details on Relocation of Services
- All boundaries unless otherwise noted are to be retained and all due care shall be taken to their preservation

D03	17/07/23	Planning Issue	KP	DMcH	
D02	01/06/23	Planning Issue	KP	DMcH	
D01	28/04/23	Planning Issue	KP	RM	
Rev	Date	Description	By	Chkd.	

Client:



comhairle chontae na mí
meath county council

Meath County Council

Prepared by: KP

Checked: RM

Date: June 2023

Project Director: JOF

Drawing Status: Planning Issue

Scale @ A1: 1:250

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Revision: D03

Project: Newtown Road Trim Active Travel

Title: Site Clearance

Drawing No.: 11587-2102



Link Road to Newtown Road
Scale 1:250 @ A1

LEGEND:

- CD — Existing Carrier Drain
- CD — Proposed Carrier Drain
- Gully Tail
- Existing Manholes to be retained
- Proposed Manholes
- Existing Gully to be relocated CC-SCD-00512
- Existing Gully to be retained
- Road Gully - CC-SCD-00512 (Proposed)

NOTES:

1. Drawings to be read in conjunction with 500 Series Appendices & Schedules..

D02	19/07/23	Planning Issue	KP	DMcH	
D01	04/04/23	Planning Issue	KP	RM	
Rev	Date	Description	By	Chkd.	

Newtown Road
Scale 1:250 @ A1

Client:

 **comhairle chontae na mí**
meath county council

Meath County Council

Project: Newtown Road Trim Active Travel

Title: Drainage Plan

Prepared by:	KP
Checked:	RM
Date:	July 2023
Project Director:	JOF
Drawing Status:	Planning Issue
Scale @ A1:	1:250

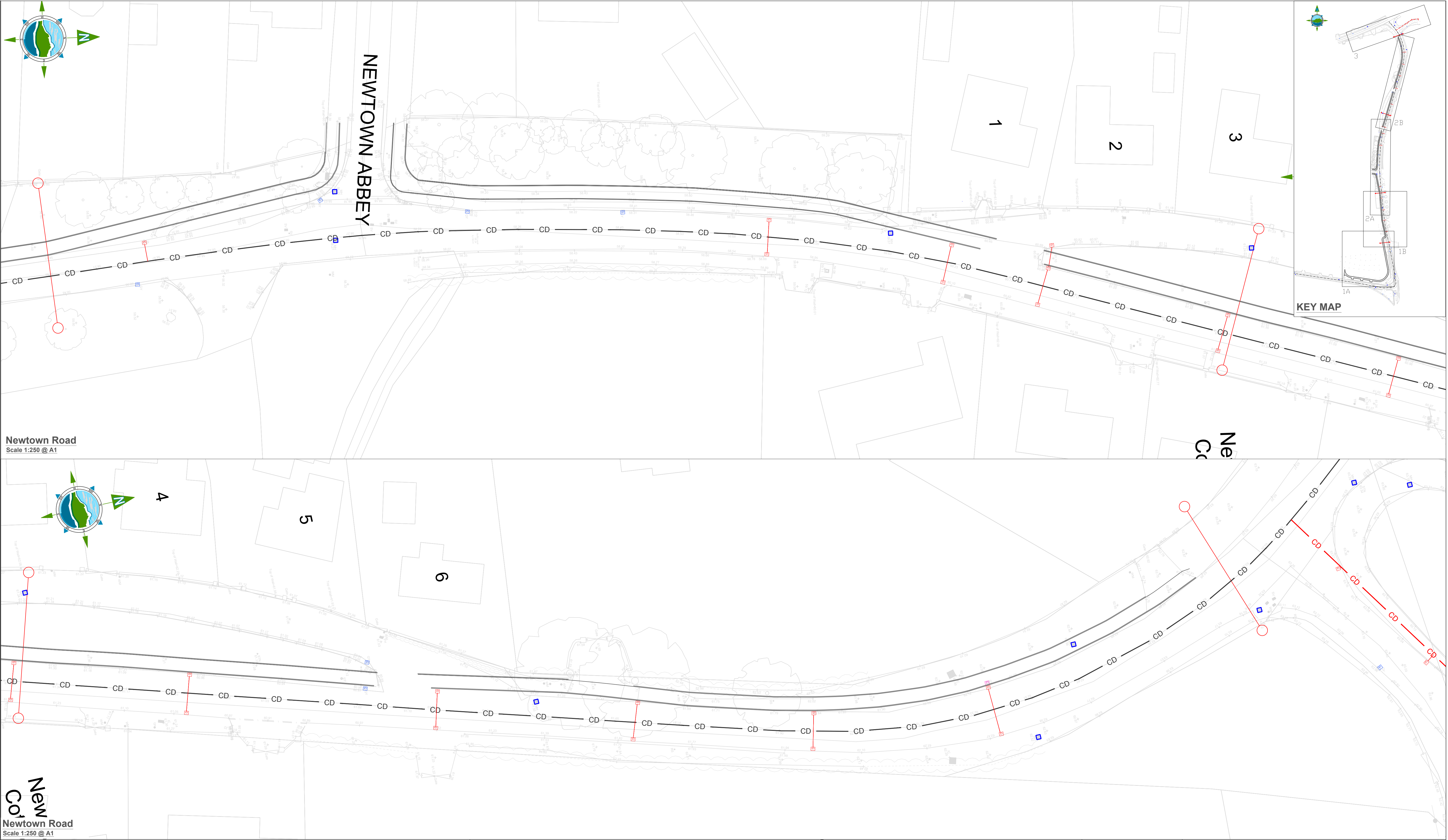
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Drawing No.: **11587-2200**

Revision: **D02**



LEGEND:

- Existing Carrier Drain
- Proposed Carrier Drain
- Gully Tail
- Existing Manholes to be retained
- Proposed Manholes
- Existing Gully to be relocated CC-SCD-00512
- Existing Gully to be retained
- Road Gully - CC-SCD-00512 (Proposed)

NOTES:

1. Drawings to be read in conjunction with 500 Series Appendices & Schedules..

Rev	Date	Description	By	Chkd.
D02	19/07/23	Planning Issue	KP	DMcH
D01	04/04/23	Planning Issue	KP	RM

Client:

comhairle chontae na mí
meath county council

Meath County Council

Project:

Newtown Road Trim Active Travel

Title:

Drainage Plan

Prepared by:

KP

Checked:

RM

Date:

July 2023

Project Director:

JOF

Drawing Status:

Planning Issue

Scale @ A1:

1:250

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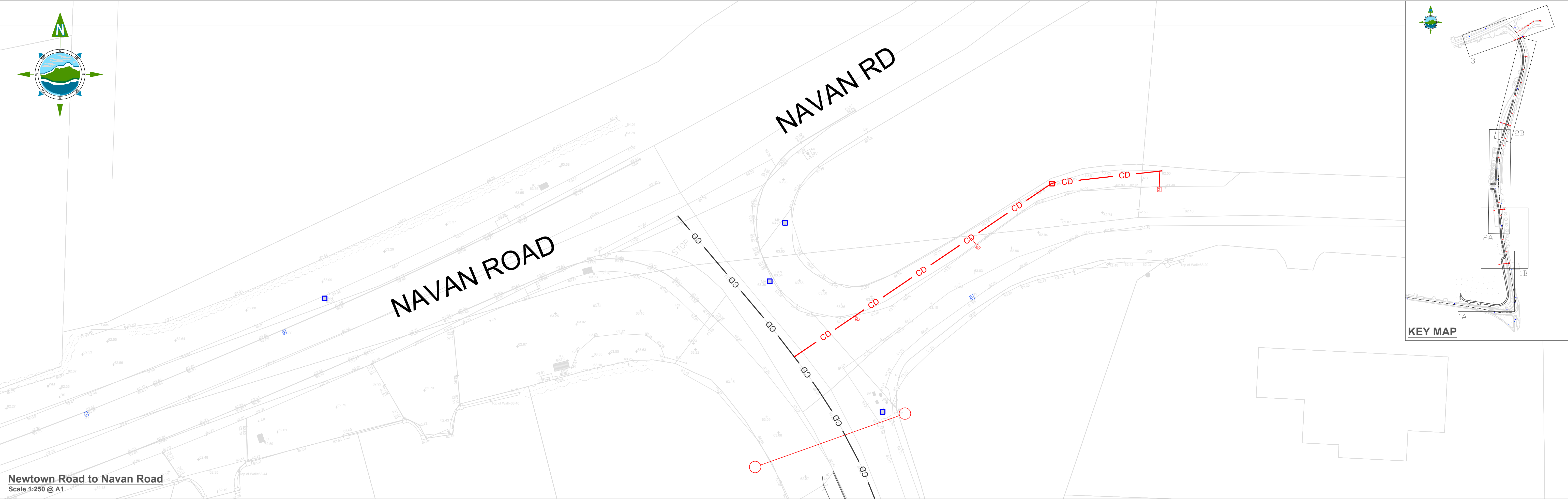
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Drawing No.:

11587-2201

Revision:

D02



LEGEND:


- Existing Carrier Drain
- Proposed Carrier Drain
- Gully Tail
- Existing Manholes to be retained
- Proposed Manholes
- Existing Gully to be relocated CC-SCD-00512
- Existing Gully to be retained
- Road Gully - CC-SCD-00512 (Proposed)

NOTES:

1. Drawings to be read in conjunction with 500 Series Appendices & Schedules..

D02	19/07/23	Planning Issue	KP	DMcH
D01	04/04/23	Planning Issue	KP	RM
Rev	Date	Description	By	Chkd.

Client:

 **comhairle chontae na mí**
meath county council

Meath County Council

Project:

Newtown Road Trim Active Travel

Title:

Drainage Plan

Prepared by:

KP

Checked:

RM

Date:

July 2023

Project Director:

JOF

Drawing Status:

Planning Issue

Scale @ A1:

1:250

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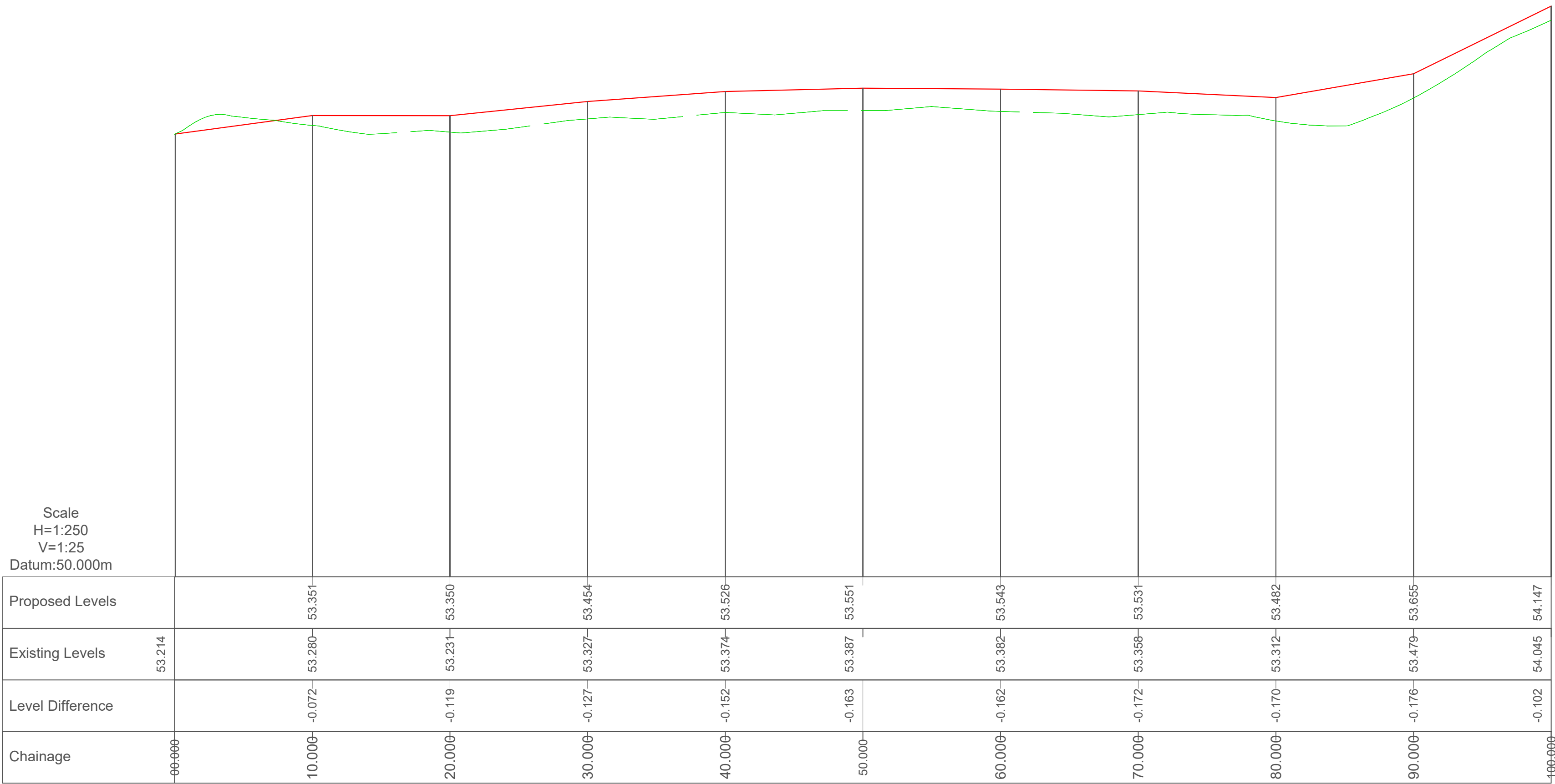
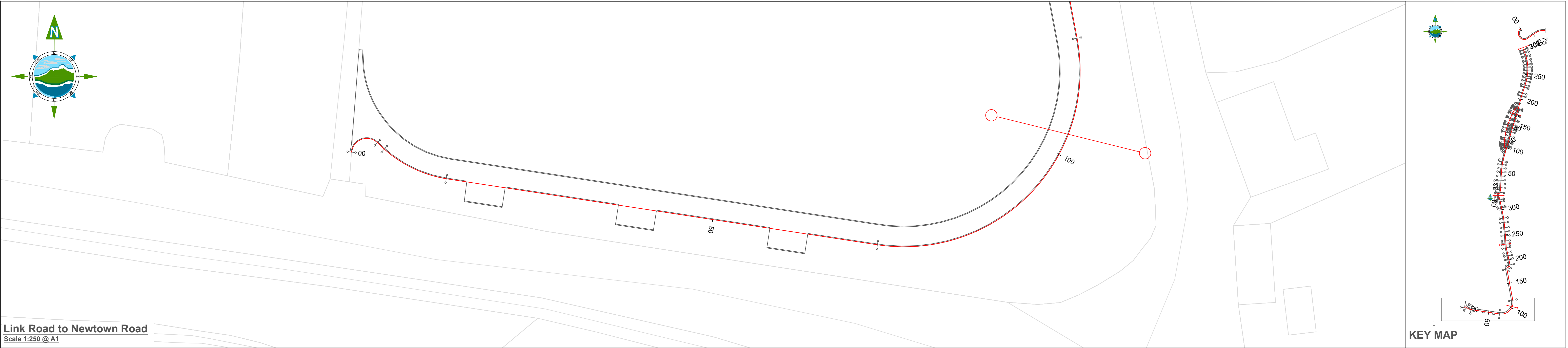
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Revision:

D02

Drawing No.: **11587-2202**



LEGEND

Proposed Design Level

Existing Ground Level

D03	26/07/23	Planning Issue	KP	DMcH
D02	06/06/23	Planning Issue	KP	DMcH
D01	28/04/23	Planning Issue	KP	RM
Rev	Date	Description	By	Chkd.

comhairle chontae na mí

meath county council

Meath County Council

Client:

Project:

Newtown Road Trim Active Travel

Title:

Geometric Design, Profiles & Cross-Sections

Prepared by:

KP

Checked:

RM

Date:

July 2023

Project Director:

JOF

Drawing Status:

Planning Issue

Scale @ A1:

1:250

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Revision:

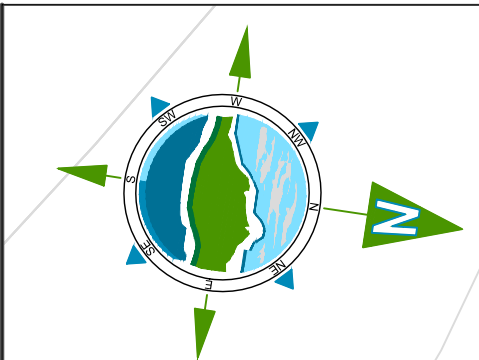
D03

Drawing No.:

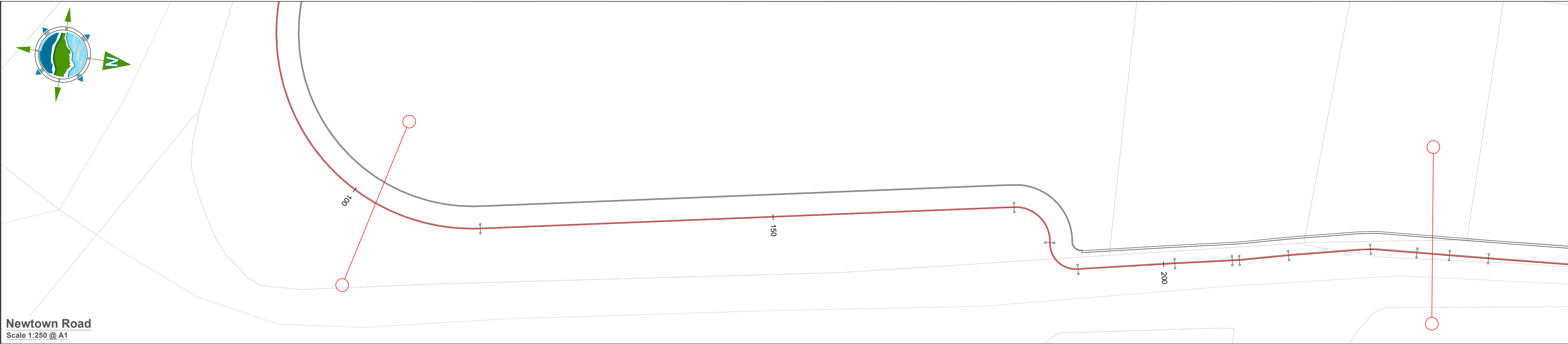
11587-2300

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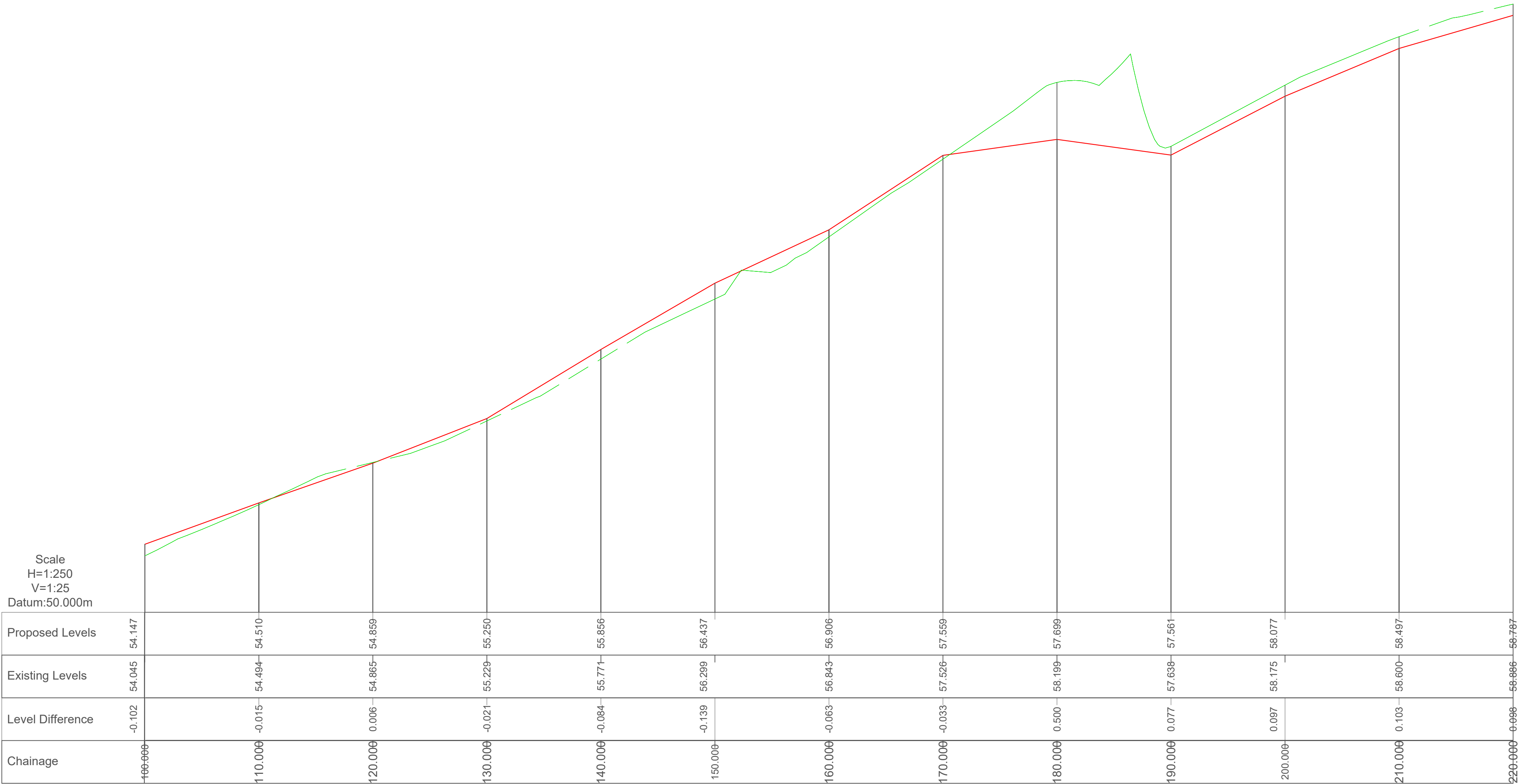
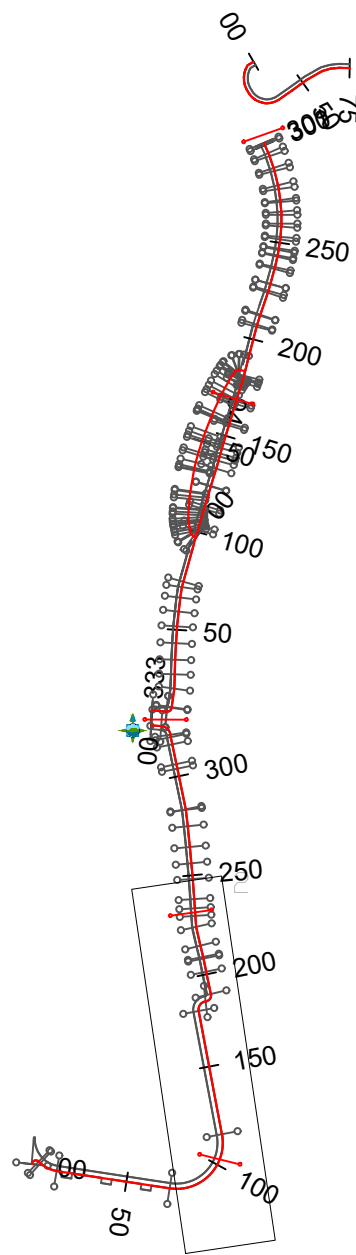
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Newtown Road
Scale 1:250 @ A1



KEY MAP



Scale
H=1:250
V=1:25
Datum:50.000m

Proposed Levels	54.147	54.510	54.859	55.250	55.656	56.437	56.906	57.559	57.699	57.561	58.077	58.497	58.797
Existing Levels	54.045	54.494	54.865	55.229	55.771	56.299	56.843	57.526	58.199	57.639	58.175	58.600	58.986
Level Difference	-0.102	-0.015	0.006	-0.021	-0.084	-0.139	-0.063	-0.033	0.500	0.077	0.097	0.103	0.099
Chainage	100.000	110.000	120.000	130.000	140.000	150.000	160.000	170.000	180.000	190.000	200.000	210.000	220.000

LEGEND

- Proposed Design Level
- Existing Ground Level

D03	26/07/23	Planning Issue	KP	DMcH	
D02	06/06/23	Planning Issue	KP	DMcH	
D01	28/04/23	Planning Issue	KP	RM	
Rev	Date	Description	By	Chkd.	

Client:



comhairle chontae na mí
meath county council

Meath County Council

Project:

Newtown Road Trim Active Travel

Title:

Geometric Design, Profiles & Cross-Sections

Prepared by:

KP

Checked:

RM

Date:

July 2023

Project Director:

JOF

Drawing Status:

Planning Issue

Scale @ A1:

1:250

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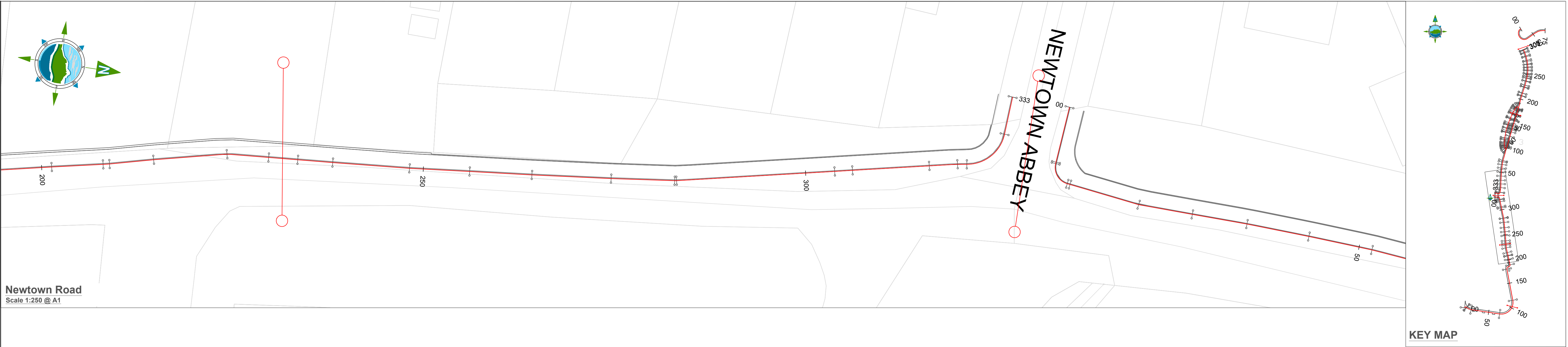
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Drawing No.:

11587-2301

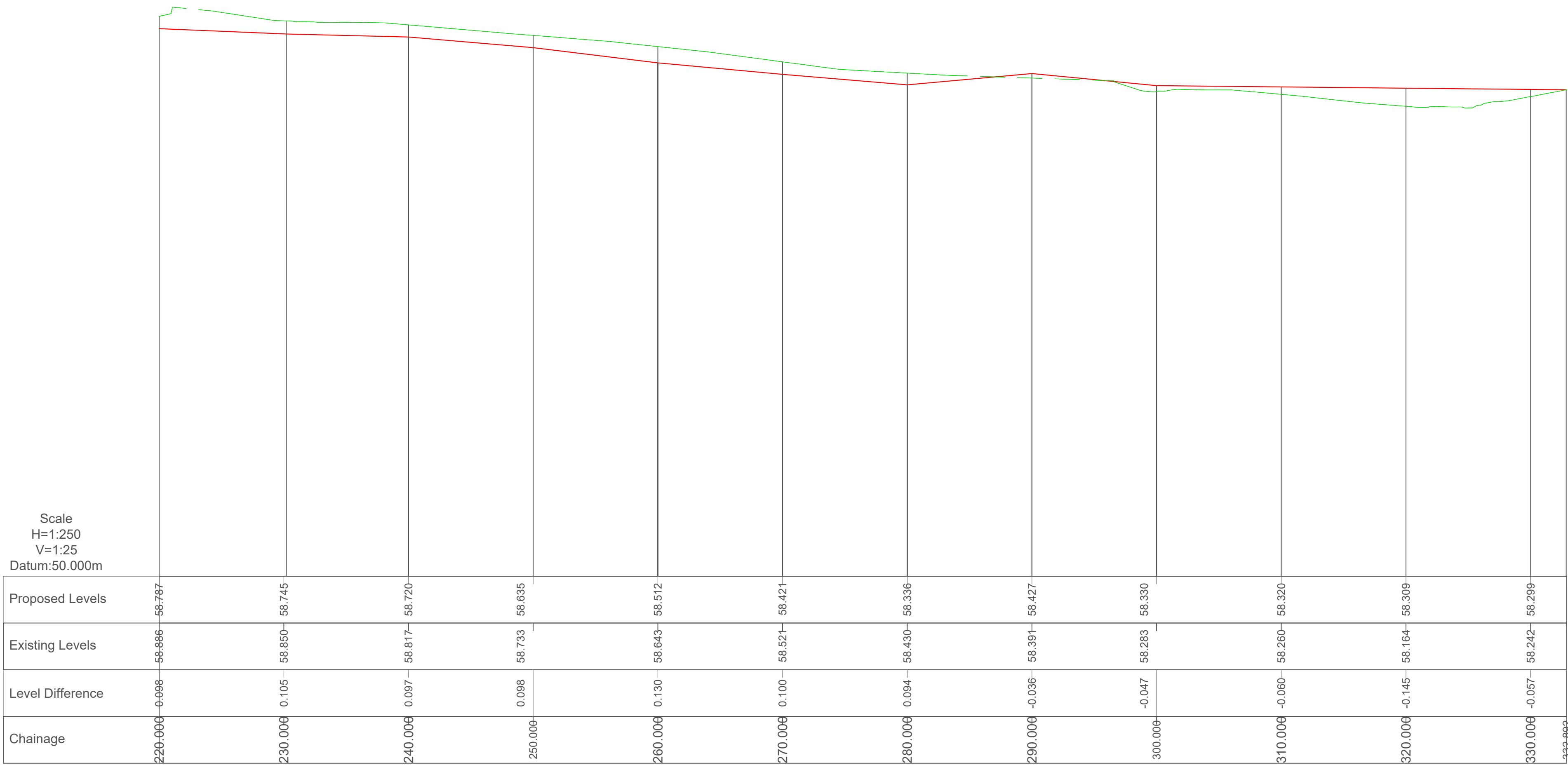
Revision:

D03



Newtown Road
Scale 1:250 @ A1

KEY MAP




LEGEND

Proposed Design Level

Existing Ground Level

D03	26/07/23	Planning Issue	KP	DMcH	
D02	06/06/23	Planning Issue	KP	DMcH	
D01	28/04/23	Planning Issue	KP	RM	
Rev	Date	Description	By	Chkd.	

Client:

 **comhairle chontae na mí**
meath county council

Meath County Council

Prepared by:

KP

Checked:

RM

Date:

July 2023

Project Director:

JOF

Drawing Status:

Planning Issue

Scale @ A1:

1:250

Project:

Newtown Road Trim Active Travel

Title:

Geometric Design, Profiles & Cross-Sections

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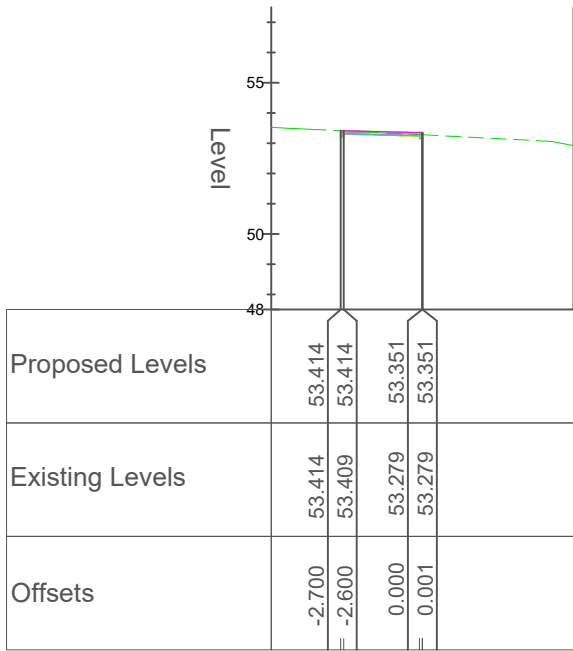
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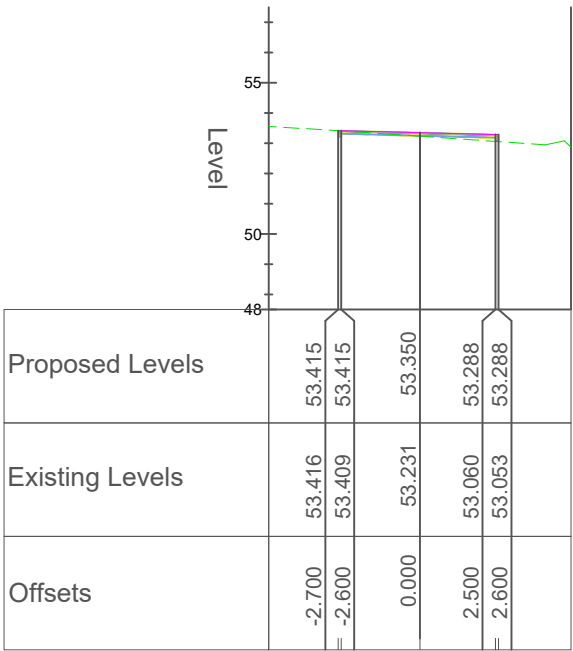
Revision:

D03

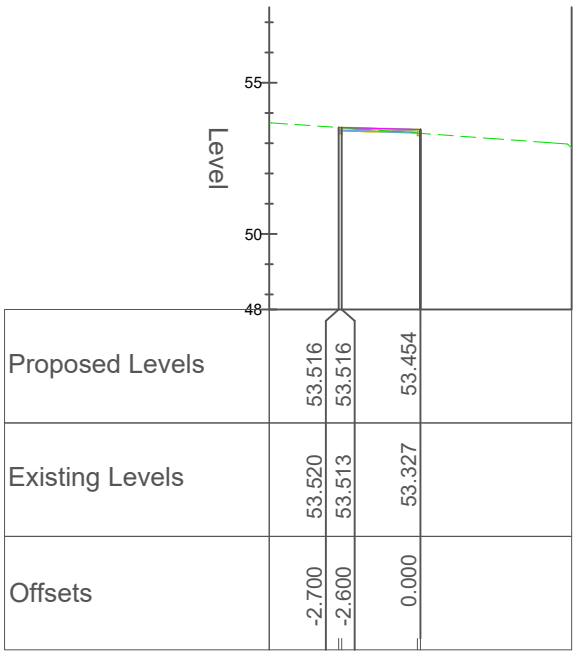
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Scale 1:250 @ A1



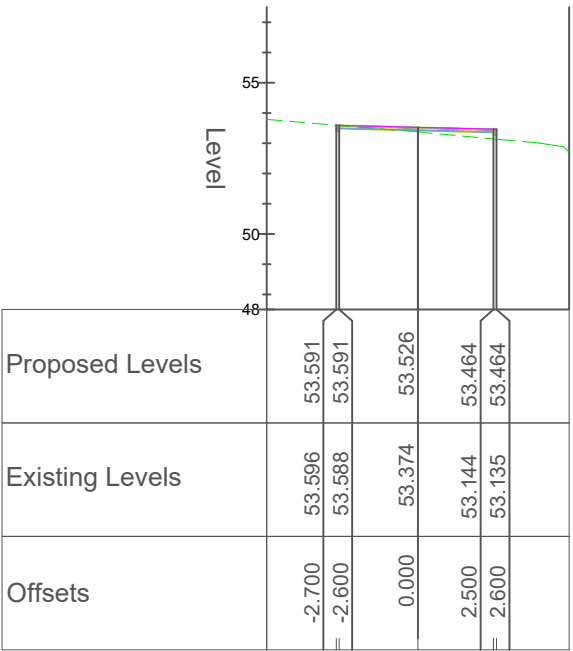
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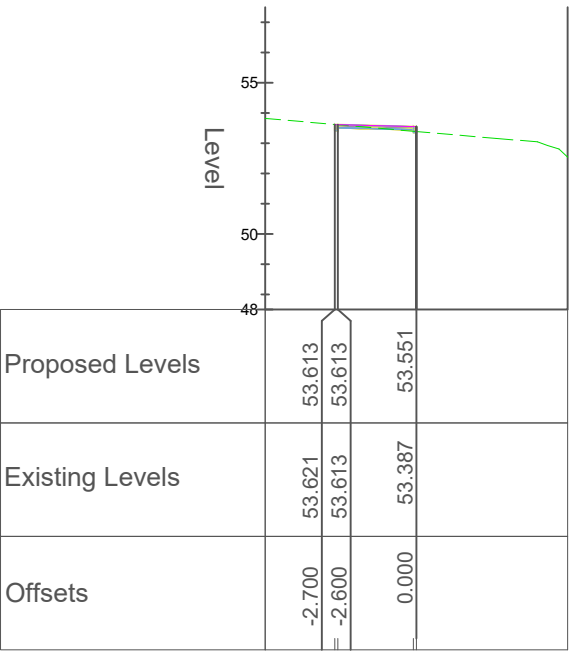
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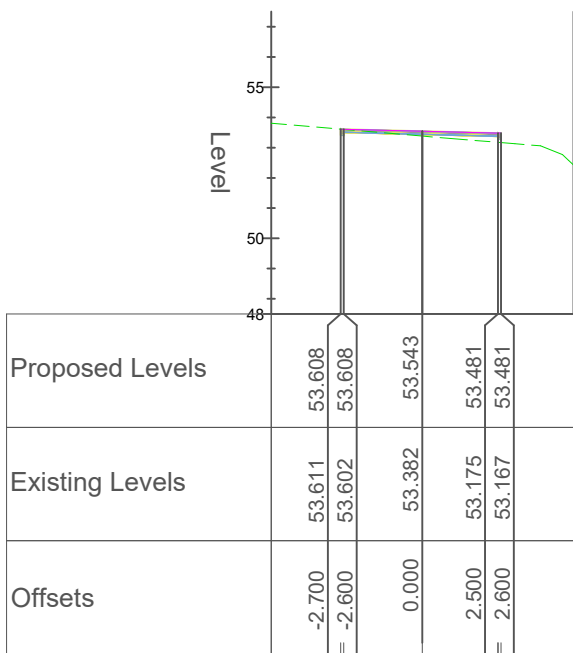
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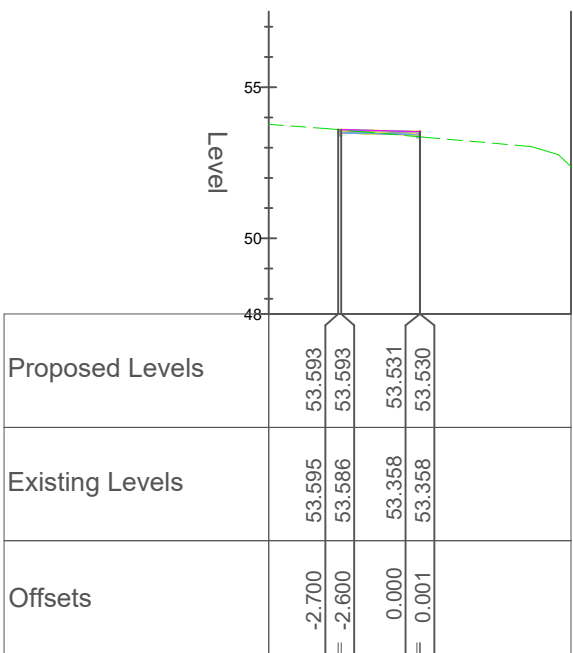
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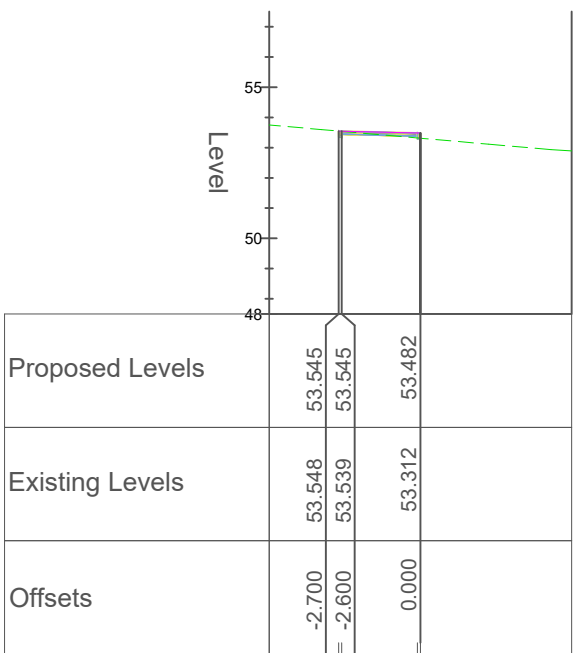
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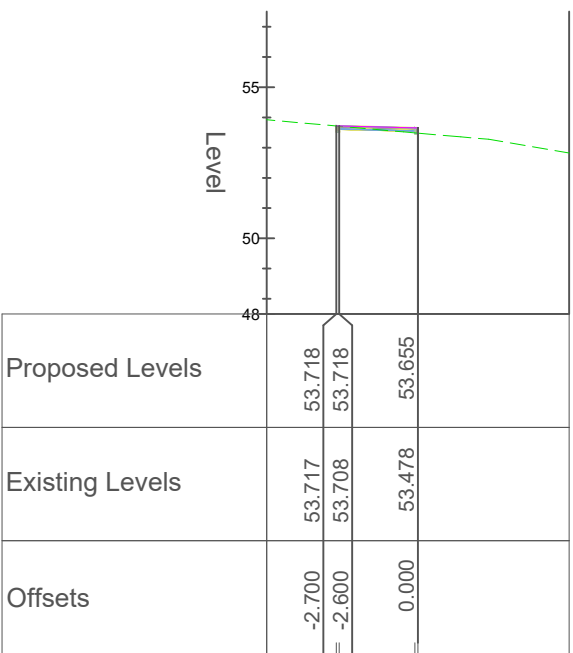
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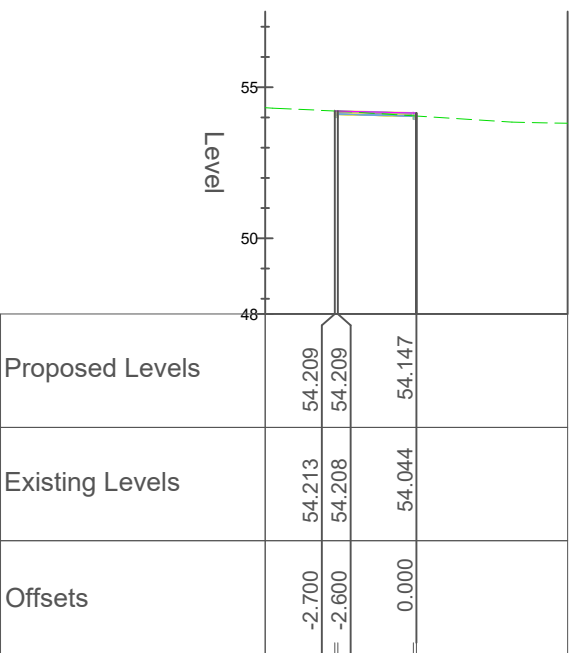
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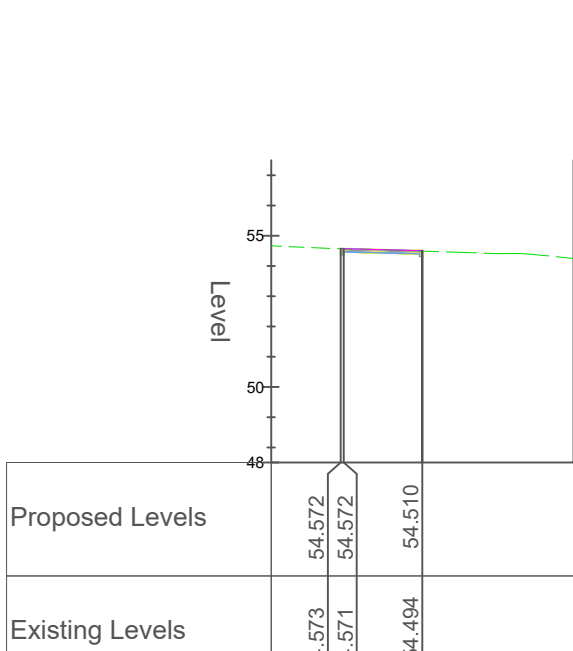
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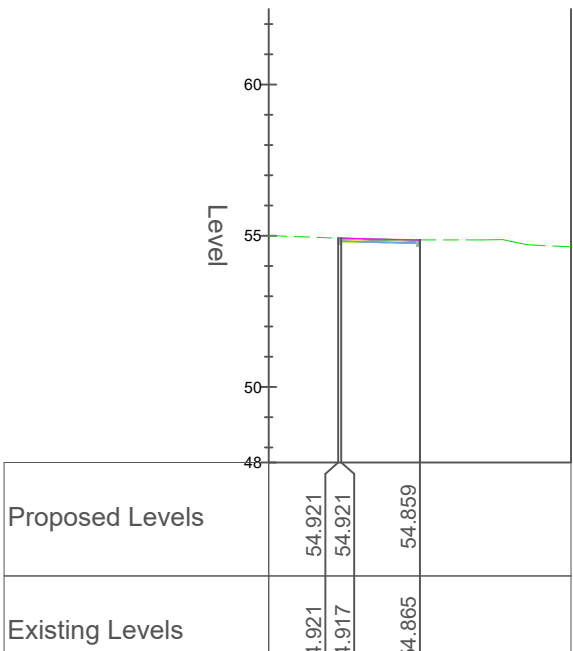
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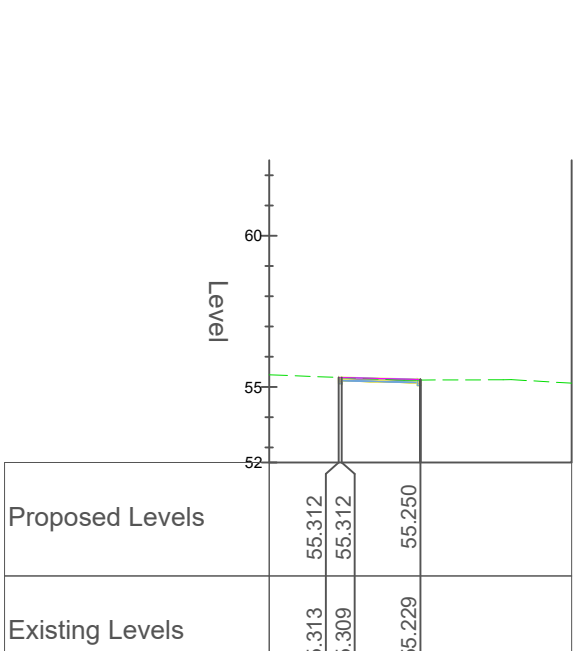
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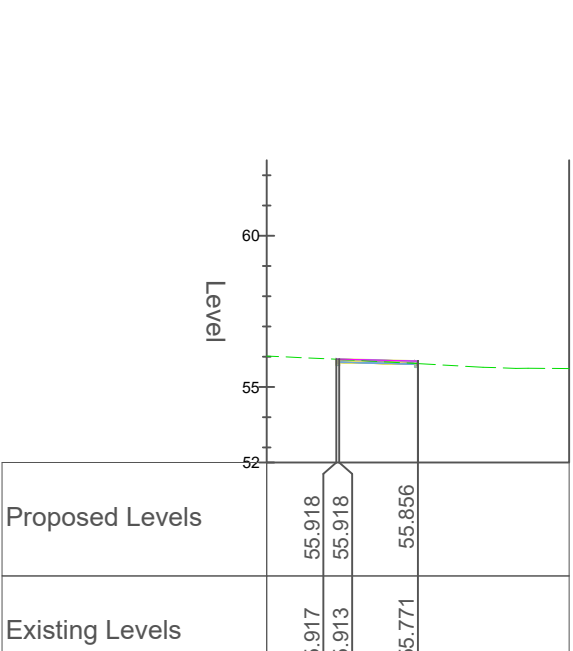
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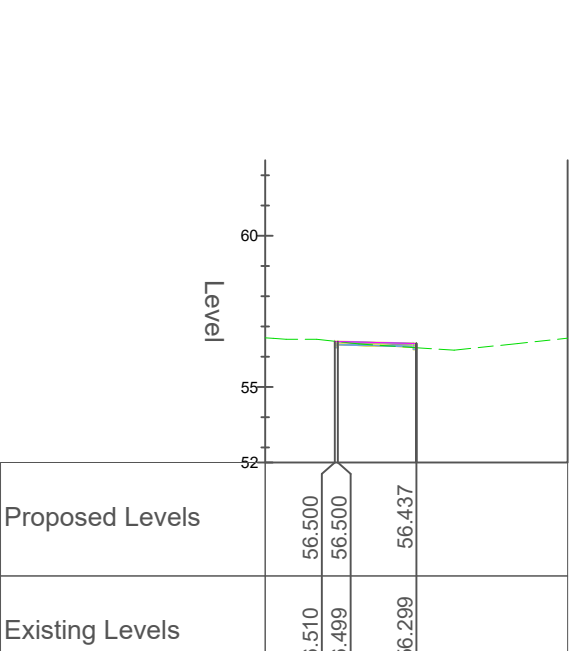
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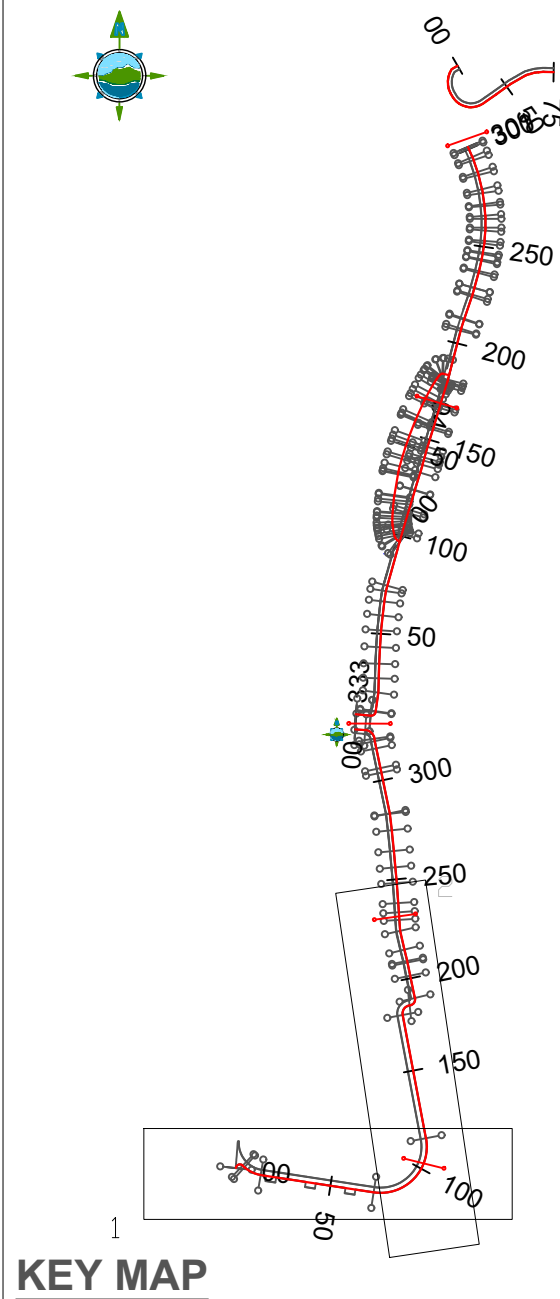
Chainage 130.000



Chainage 140.000



Chainage 150.000



LEGEND

- Proposed Design Level
- Existing Ground Level

D03	26/07/23	Planning Issue	KP	DMcH	
D02	06/06/23	Planning Issue	KP	DMcH	
D01	28/04/23	Planning Issue	KP	RM	
Rev	Date	Description	By	Chkd.	

Client:



Meath County Council

Project:

Newtown Road Trim Active Travel

Title:

Geometric Design, Profiles & Cross-Sections

Prepared by:

KP

Checked:

RM

Date:

July 2023

Project Director:

JOF

Drawing Status:

Planning Issue

Scale @ A1:

1:250

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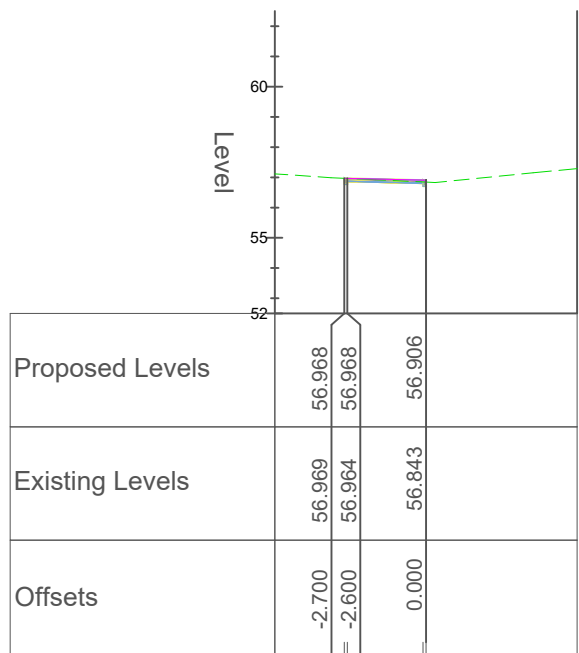
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11587-2303

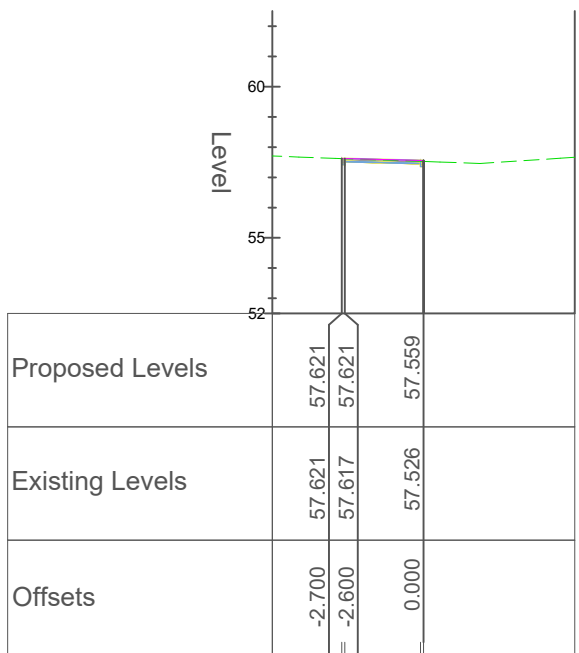
Revision:

D03

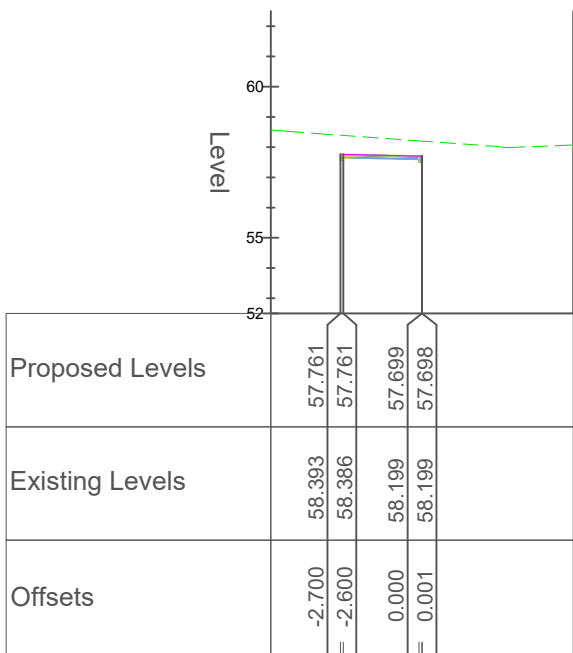
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Scale 1:250 @ A1



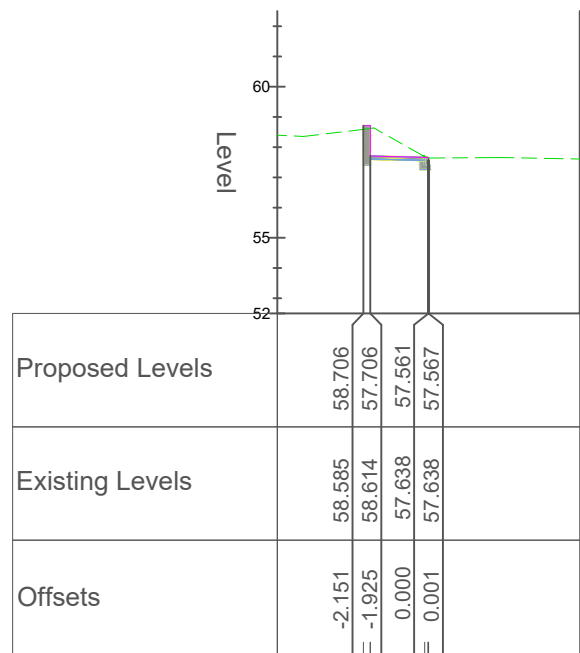
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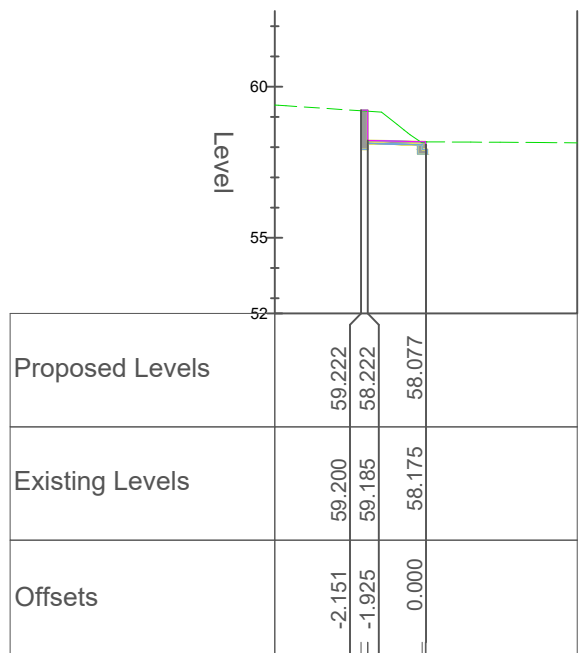
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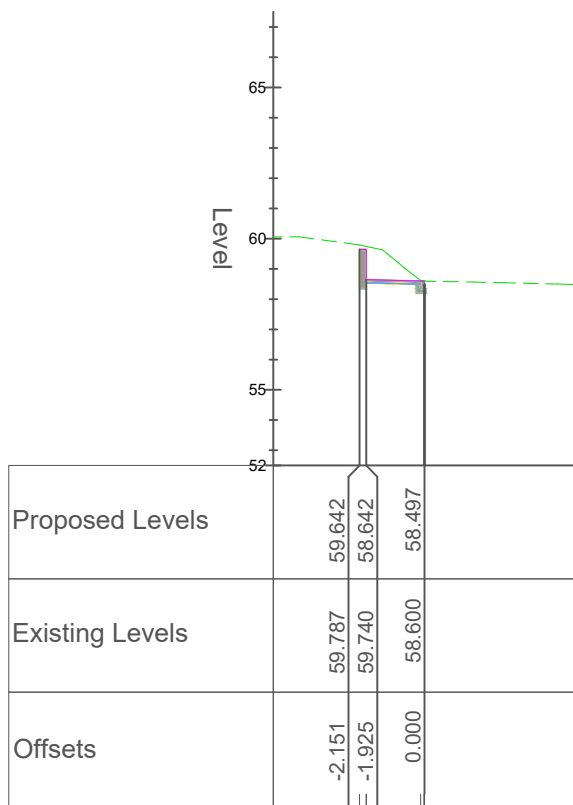
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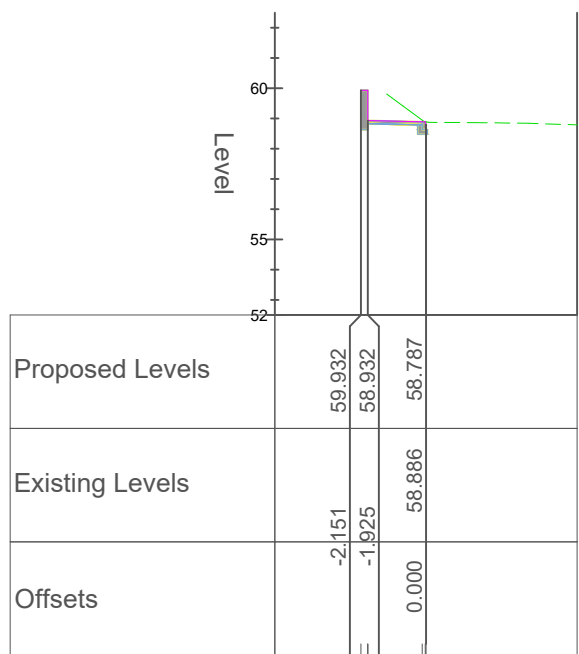
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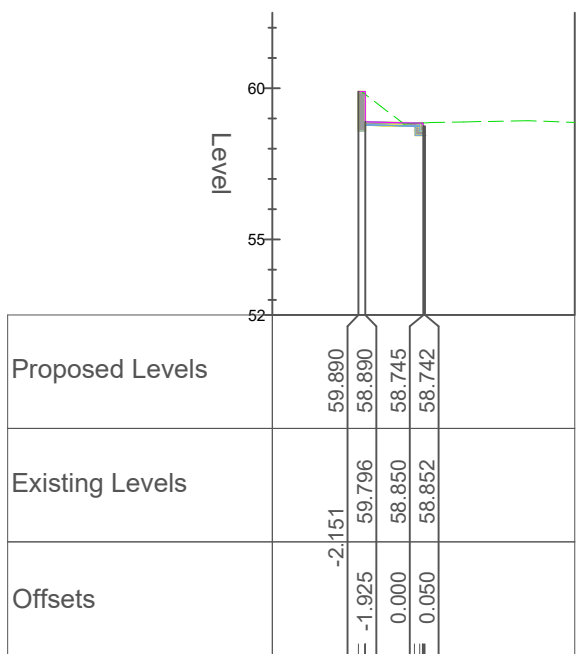
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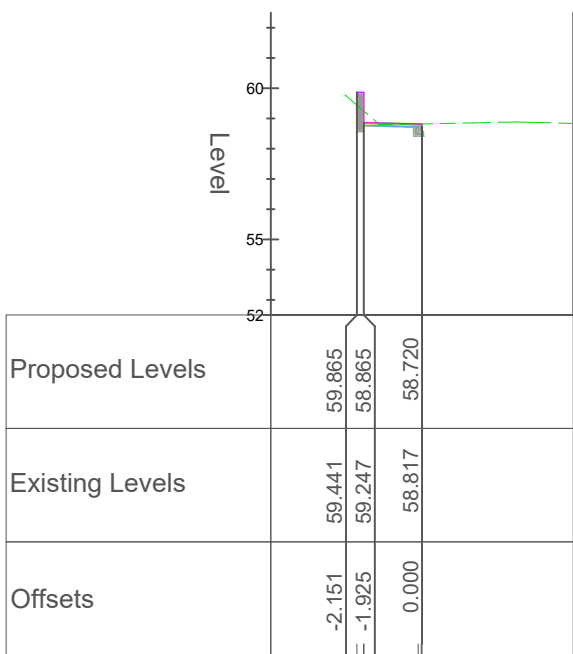
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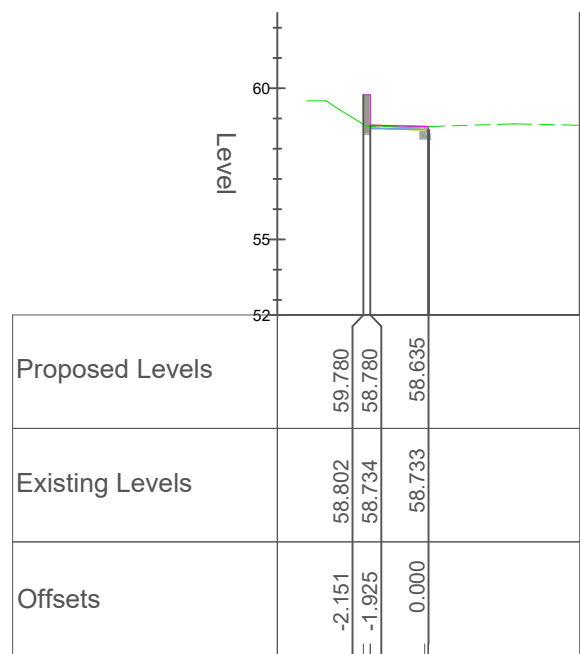
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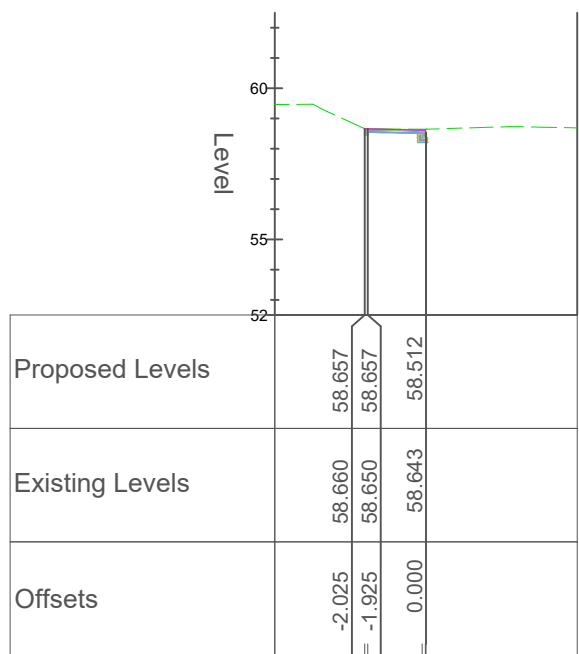
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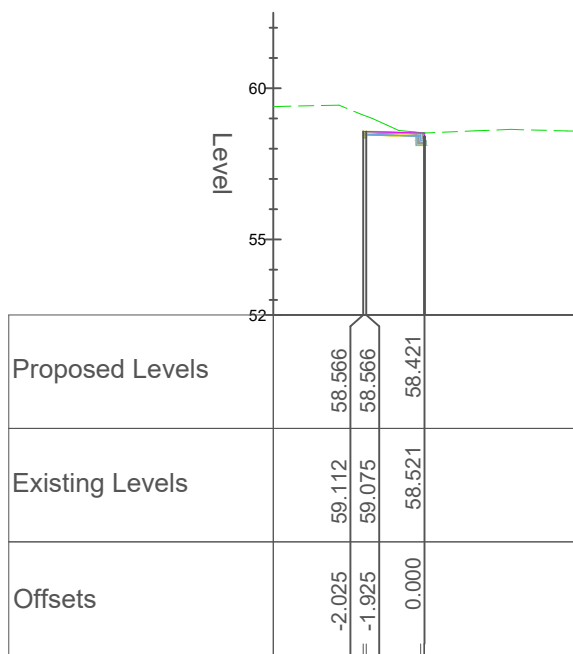
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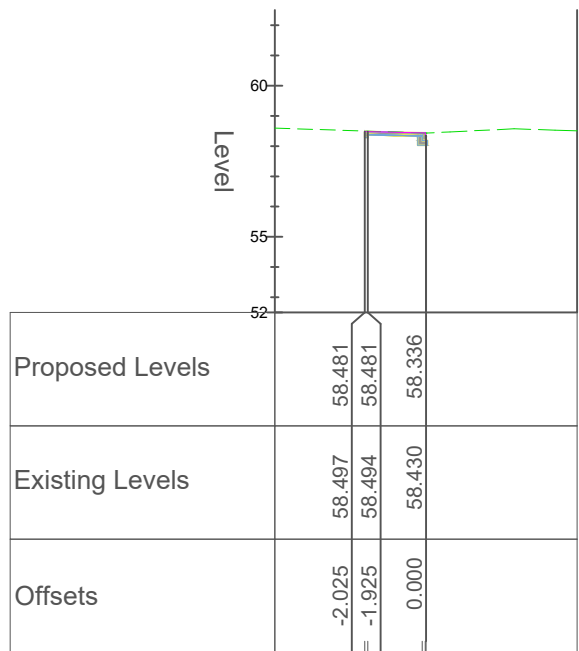
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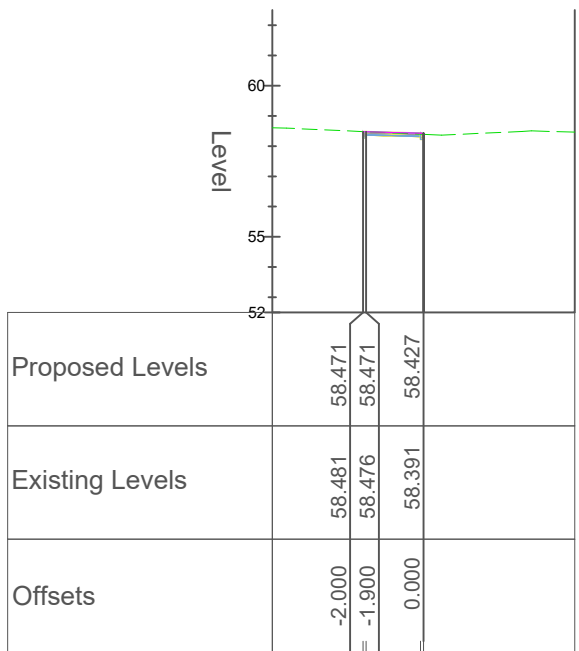
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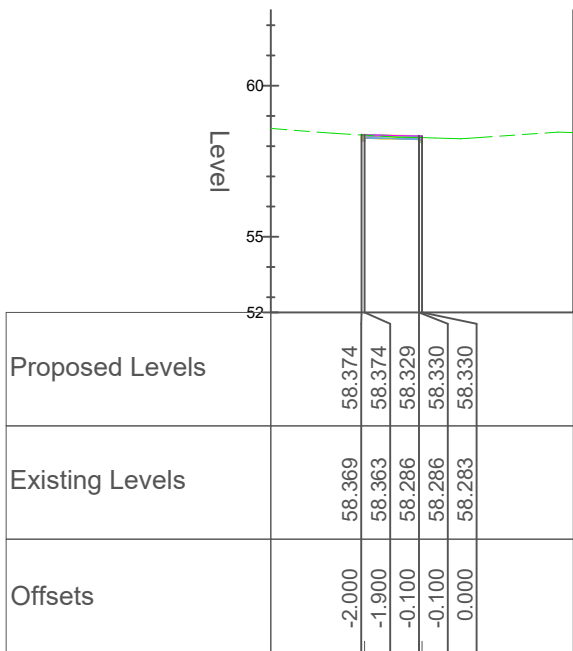
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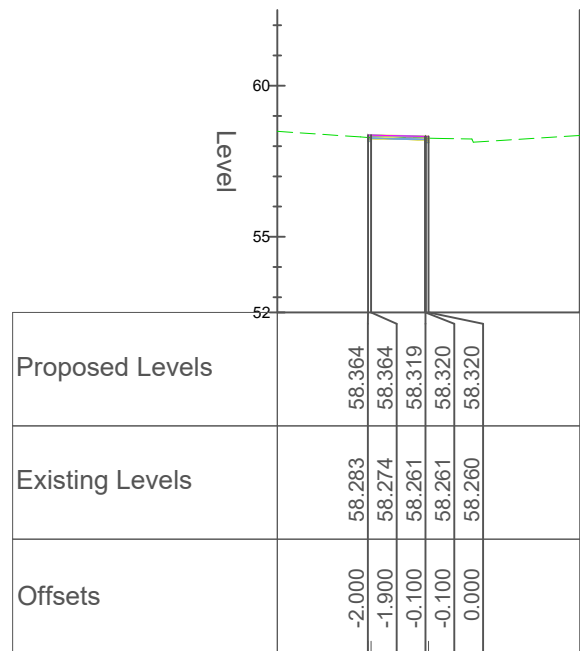
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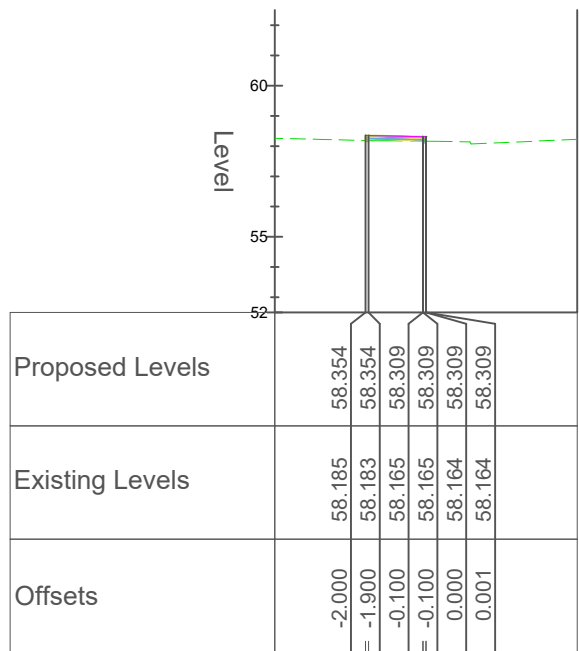
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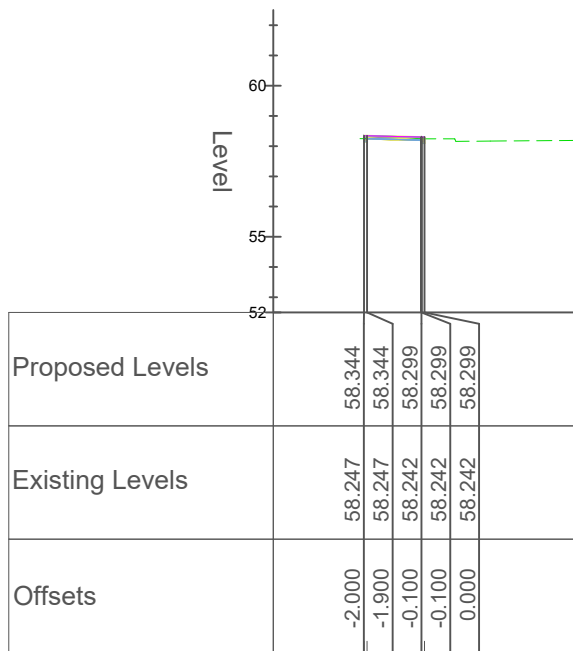
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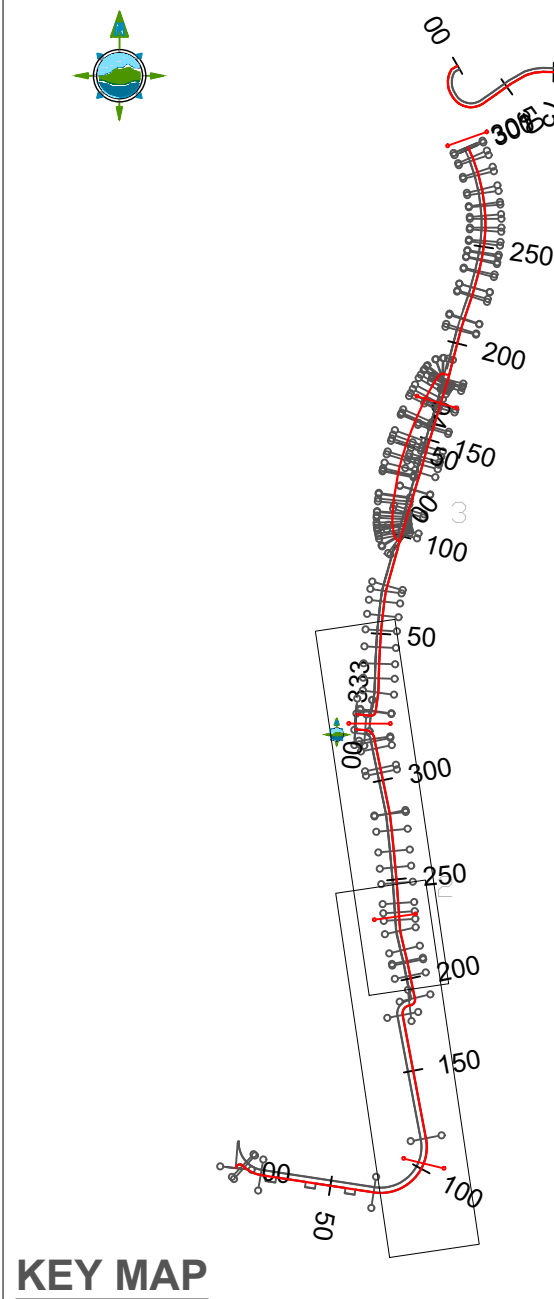
Chainage 310.000



Chainage 320.000



Chainage 330.000



LEGEND

- Proposed Design Level
- Existing Ground Level

D03	26/07/23	Planning Issue	KP	DMcH	
D02	06/06/23	Planning Issue	KP	DMcH	
D01	28/04/23	Planning Issue	KP	RM	
Rev	Date	Description	By	Chkd.	

Client:



comhairle chontae na meath
meath county council

Meath County Council

Project:

Newtown Road Trim Active Travel

Title:

Geometric Design, Profiles & Cross-Sections

Prepared by:

KP

Checked:

RM

Date:

July 2023

Project Director:

JOF

Drawing Status:

Planning Issue

Scale @ A1:

1:250

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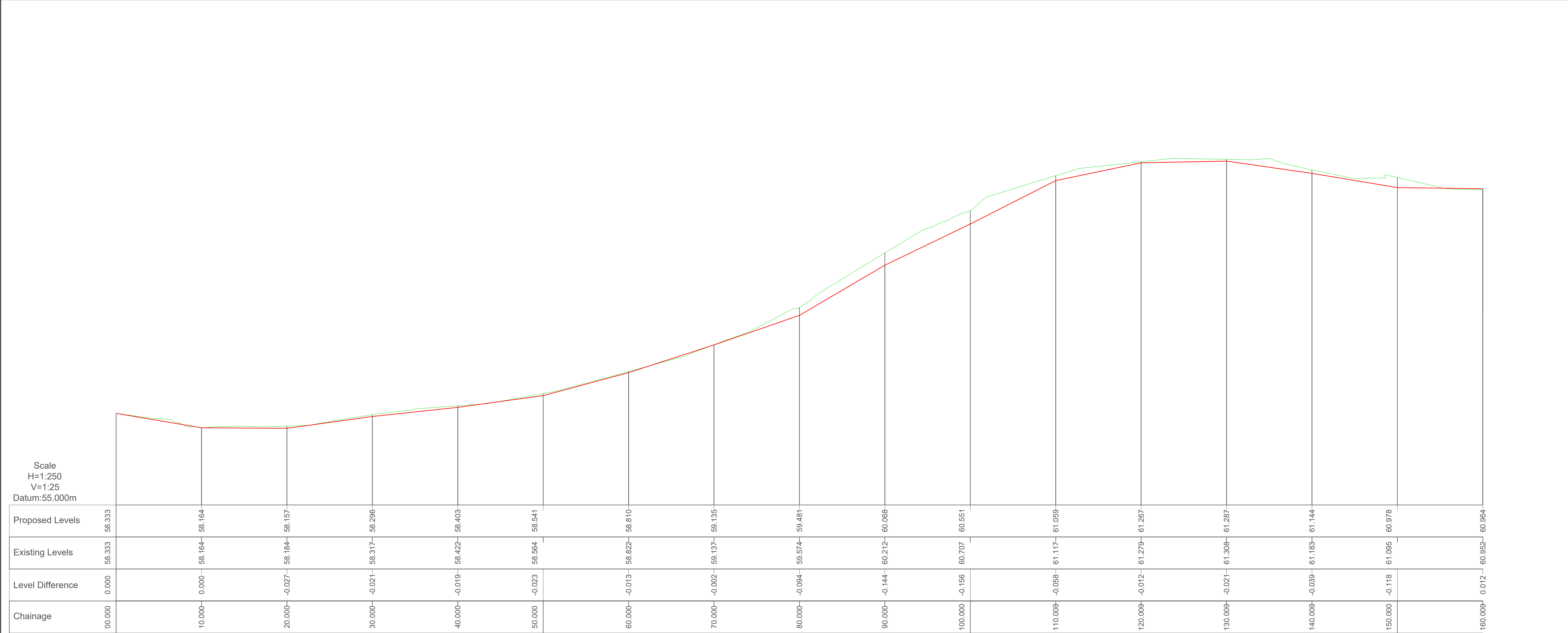
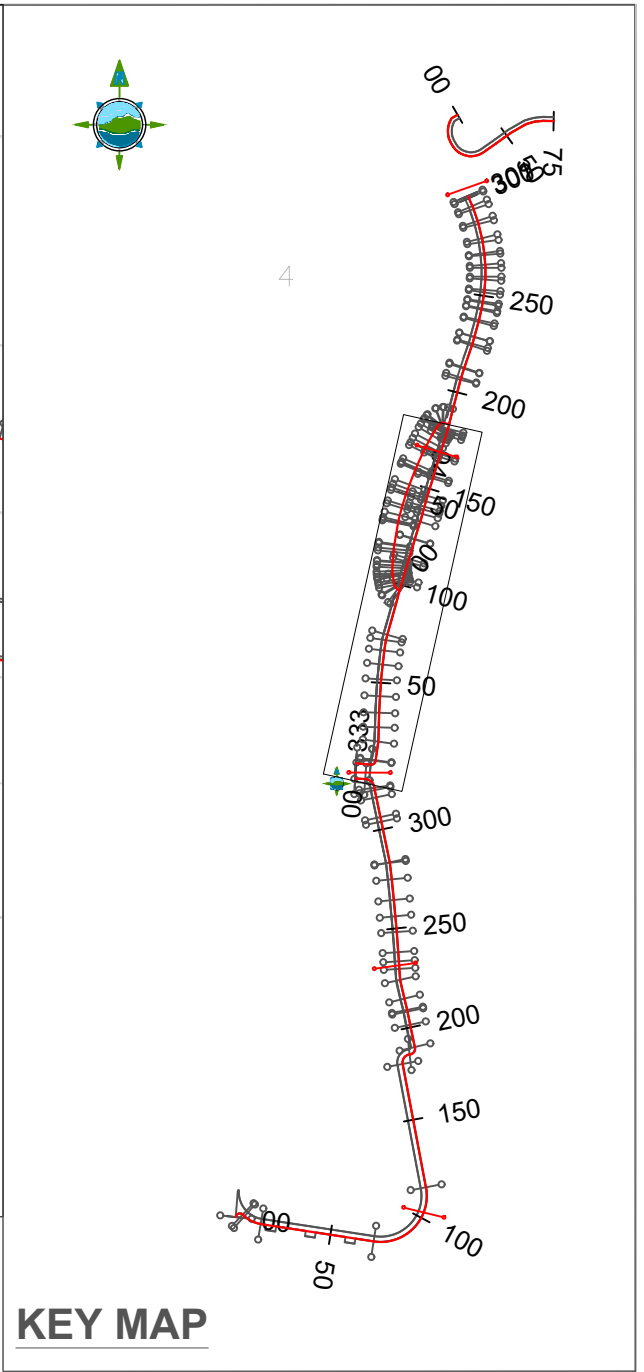
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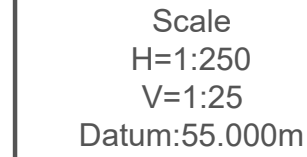
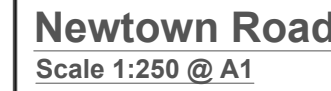
Revision:

D03



<div>LEGEND</div> <div><div></div>Proposed Design Level</div> <div><div></div>Existing Ground Level</div>						
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D02	06/06/23	Planning Issue	KP	DMcH		
D01	28/04/23	Planning Issue	KP	RM		
Rev	Date	Description	By	Chkd.		

Client: <div><div><div></div><div></div><div></div></div><div>comhairle chontae na mí meath county council</div></div> <div>Meath County Council</div>		Prepared by: KP		TOBIN Consulting Engineers, Market Square, Castlebar, Co. Mayo, Ireland. tel: +353-(0)94-9021401 fax: +353-(0)94-9021534 e-mail: castlebar@tobin.ie www.tobin.ie	
Project: <div>Newtown Road Trim Active Travel</div>		Checked: RM		<div><div>TOBIN</div><div>CONSULTING ENGINEERS</div></div> <div>TOBIN Consulting Engineers will not be liable for any use of this document for any purpose other than that for which it was originally prepared and provided. Except where specifically and explicitly agreed in writing by TOBIN Consulting Engineers, as copyright holder, no part of this document may be reproduced or transmitted in any form and this document shall not be relied upon by any third party for any purpose.</div> <div>Drawing No.:</div> <div>11587-2305</div>	
Title: <div>Geometric Design, Profiles & Cross-Sections</div>		Date: July 2023			
Project Director: JOF		Drawing Status: Planning Issue			
Scale @ A1: 1:250		Revision: D03			

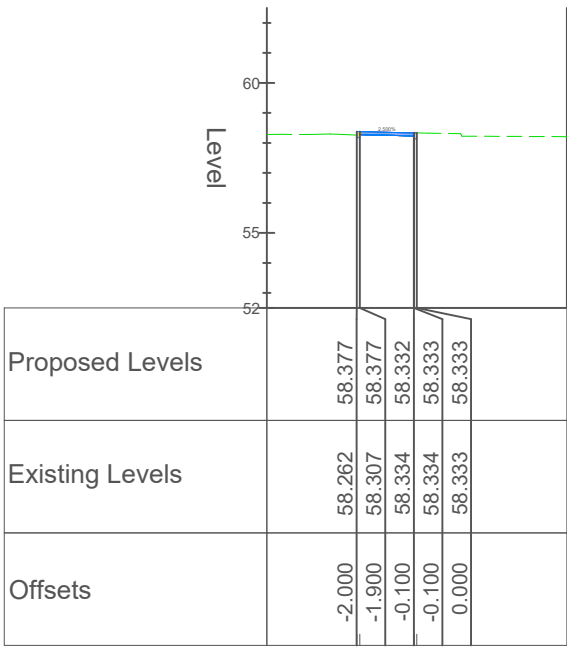


LEGEND

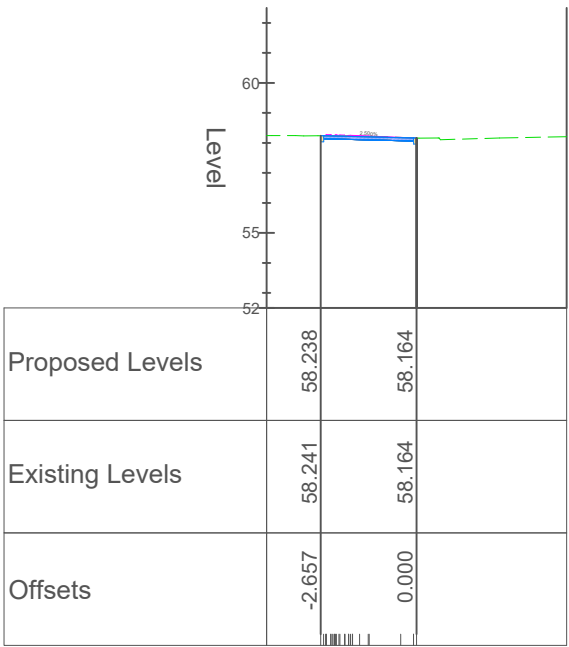
Proposed Design Level

Existing Ground Level

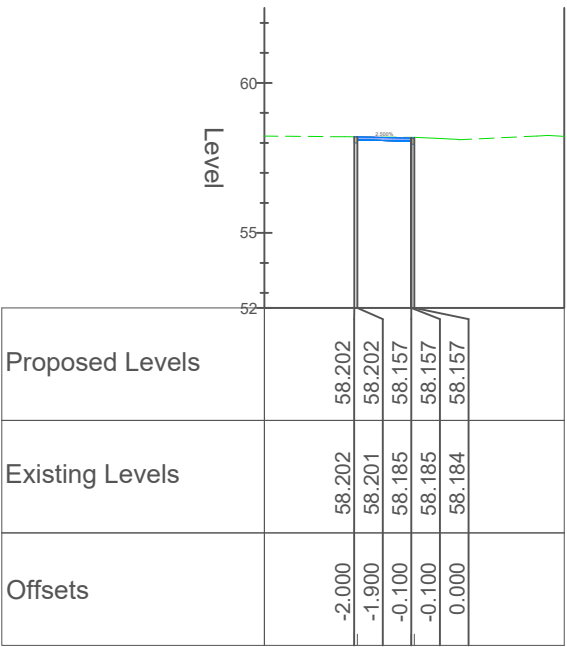
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Scale 1:250 @ A1



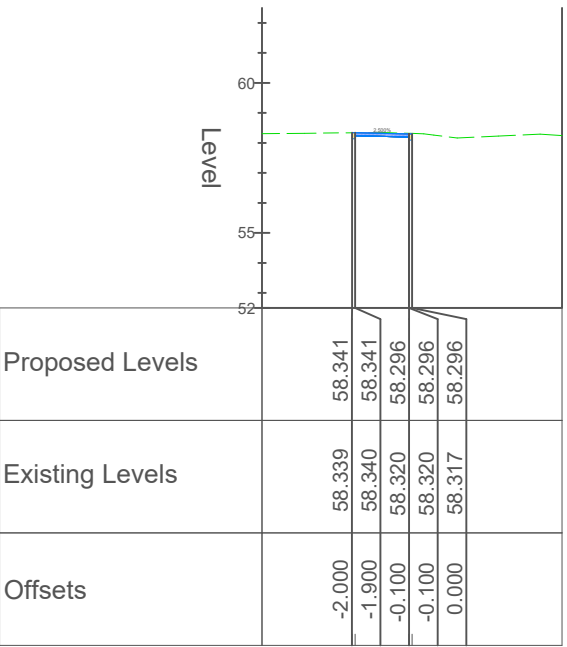
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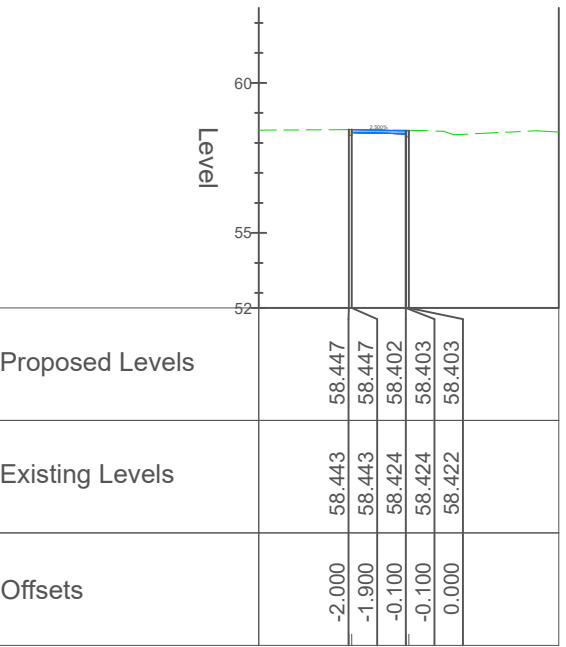
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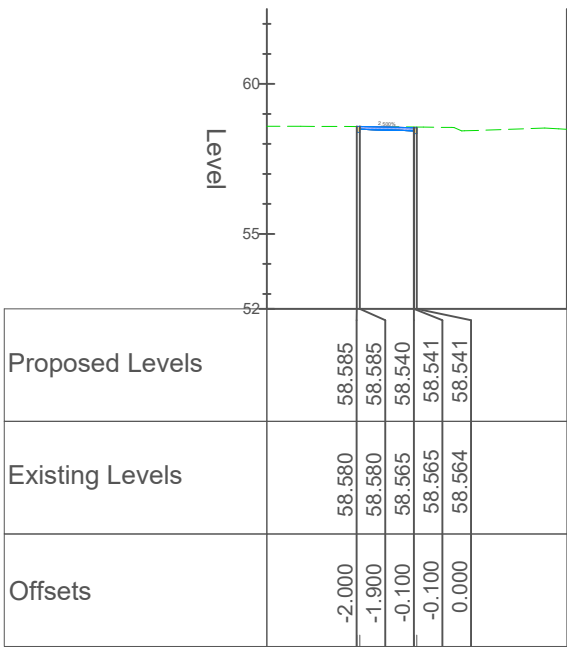
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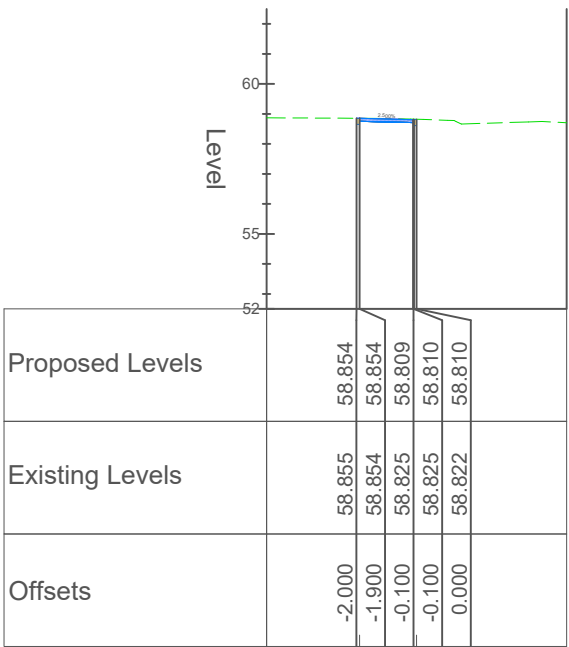
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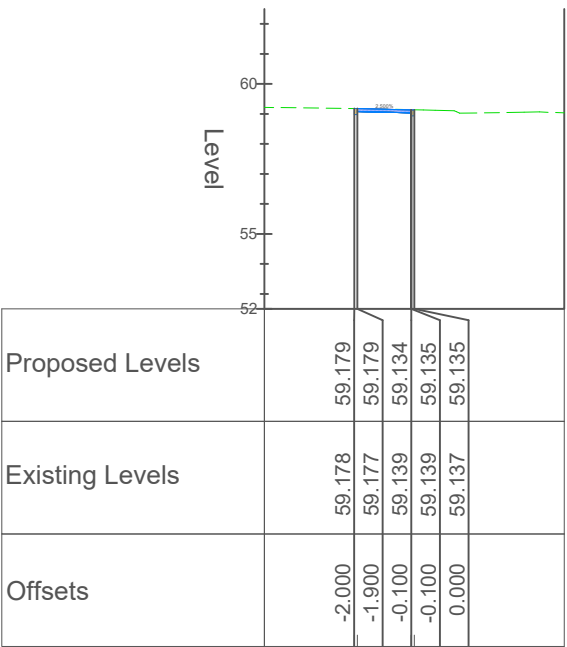
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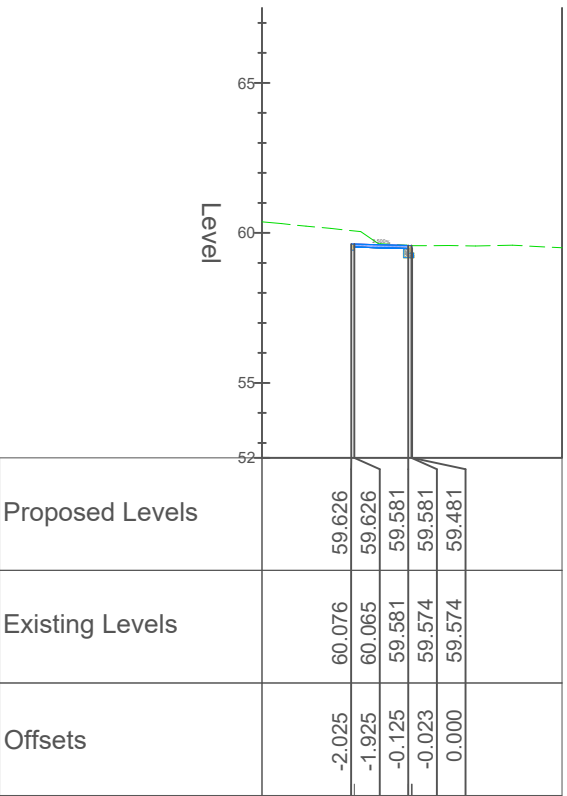
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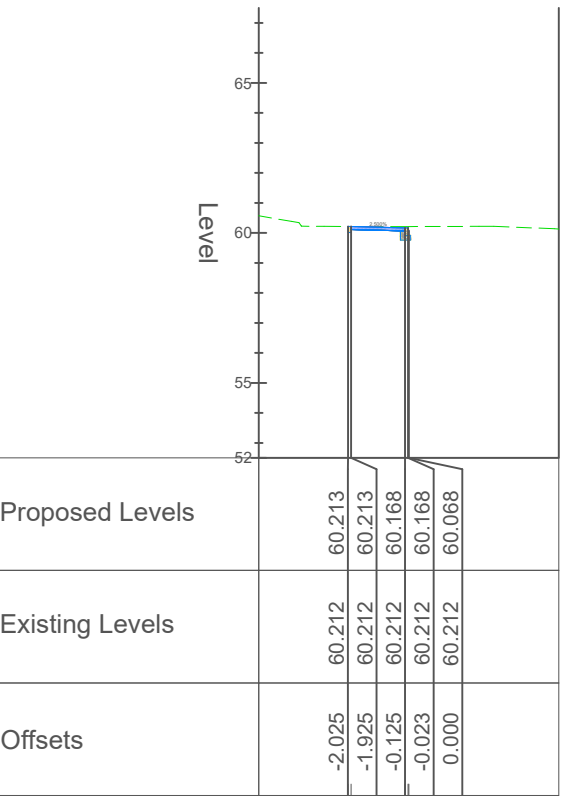
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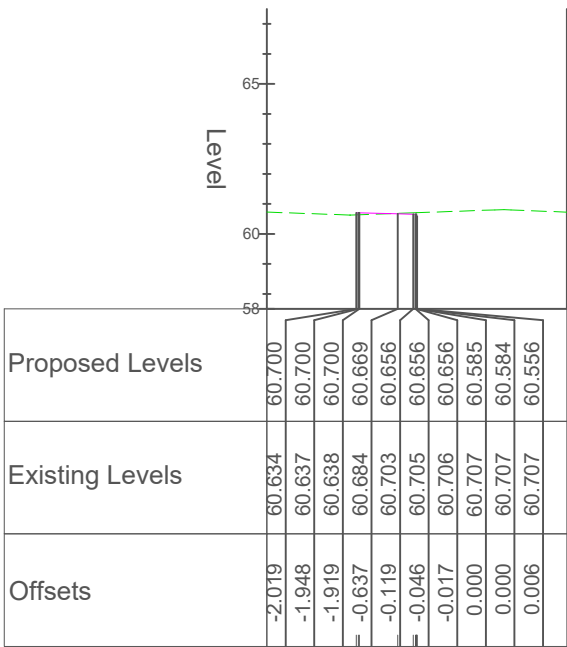
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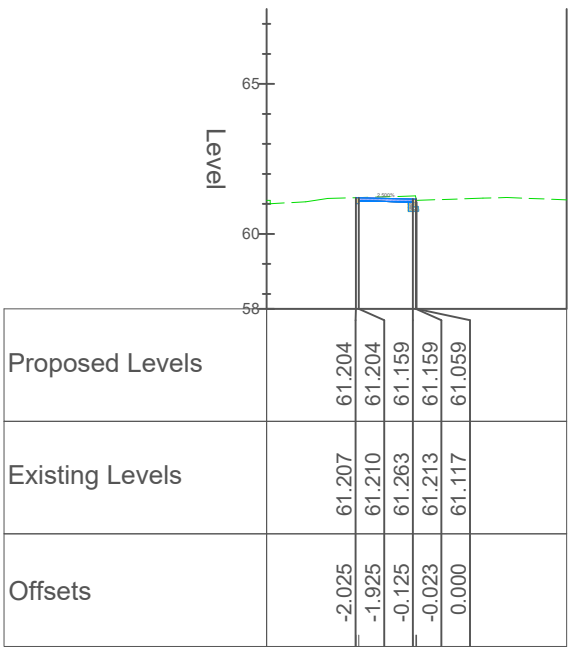
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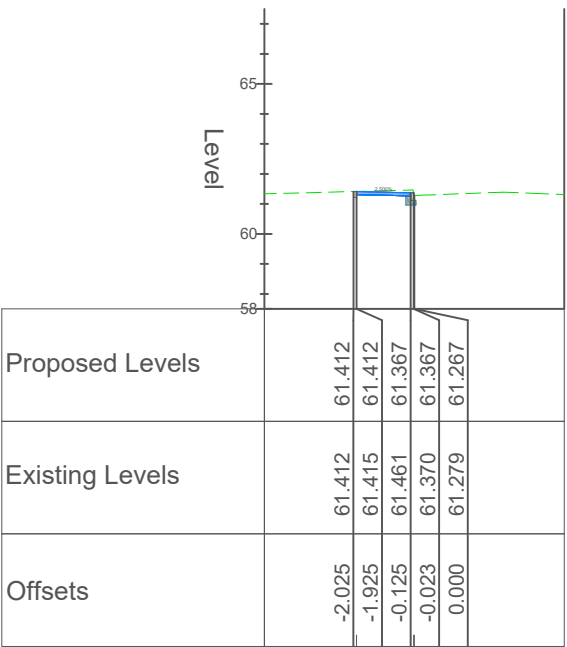
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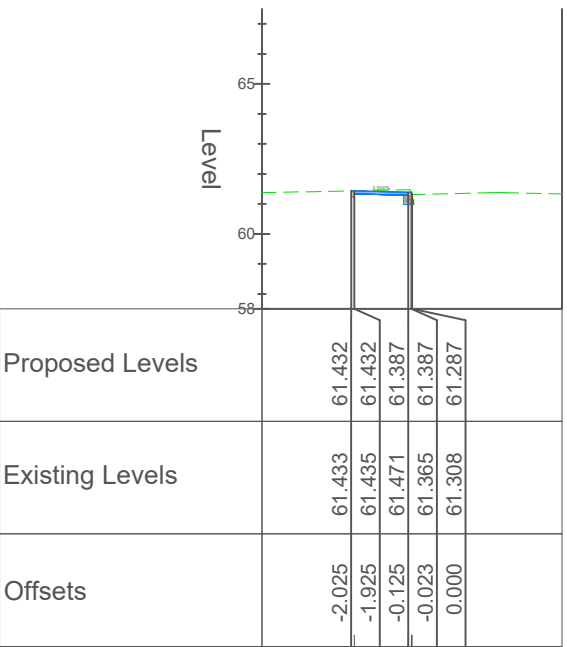
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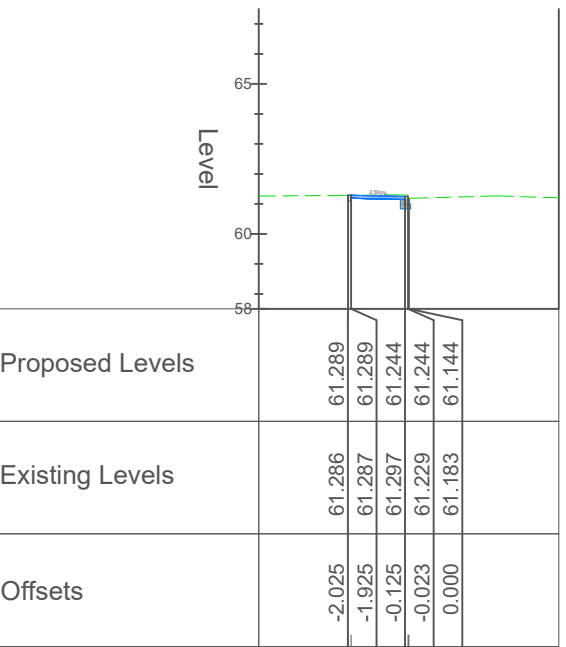
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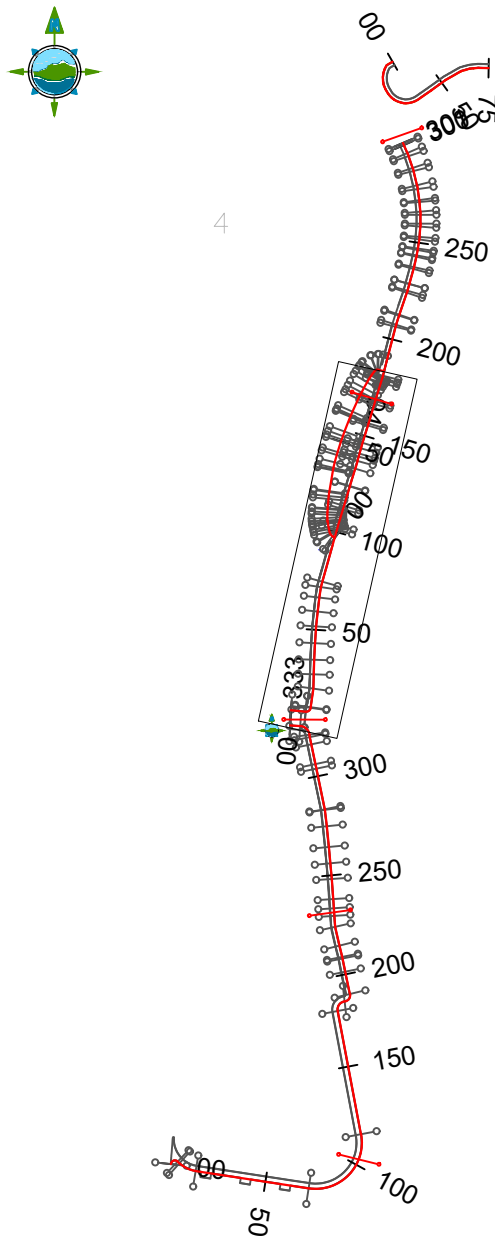
Chainage 120.000 (53)



Chainage 130.000 (54)



Chainage 140.000 (55)



KEY MAP

LEGEND

- Proposed Design Level
- Existing Ground Level

Rev	Date	Description	By	Chkd.
D03	26/07/23	Planning Issue	KP	DMcH
D02	06/06/23	Planning Issue	KP	DMcH
D01	28/04/23	Planning Issue	KP	RM

Client:



comhairle chontae na mí
meath county council

Meath County Council

Project:

Newtown Road Trim Active Travel

Title:

Geometric Design, Profiles & Cross-Sections

Prepared by:

KP

Checked:

RM

Date:

July 2023

Project Director:

JOF

Drawing Status:

Planning Issue

Scale @ A1:

1:250

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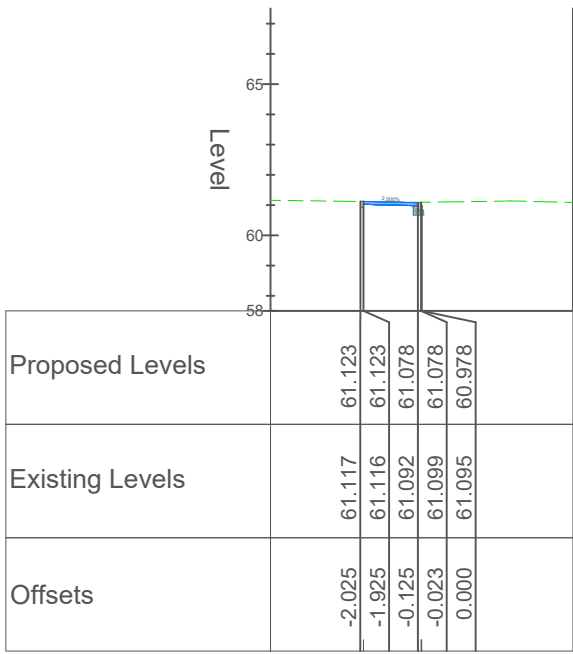
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Drawing No.:

11587-2307

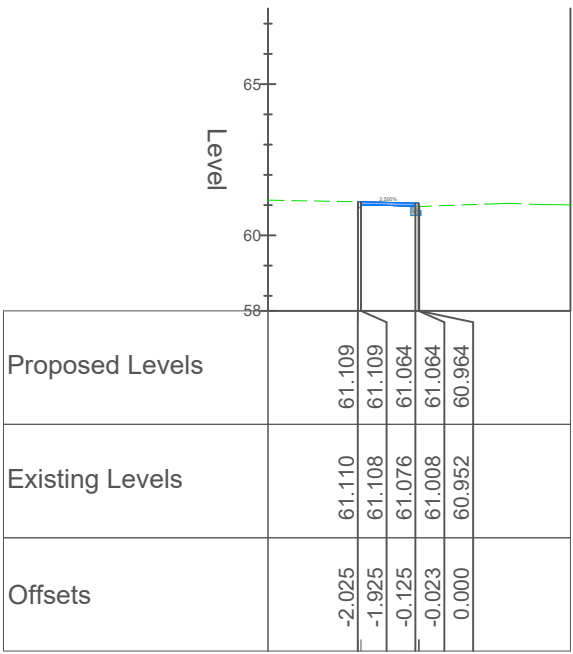
Revision:

D03

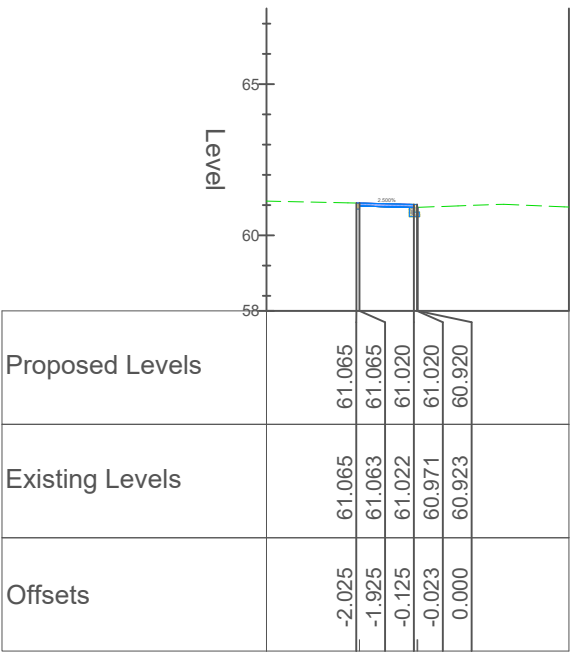
Link Road to Newtown Road
Scale 1:250 @ A1



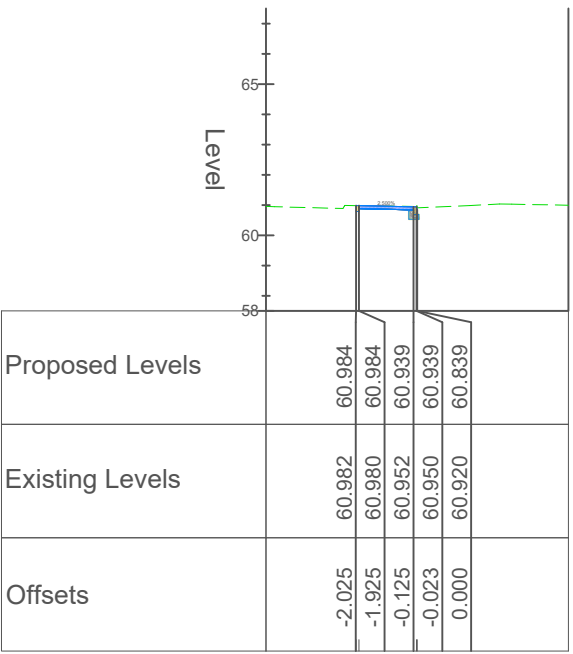
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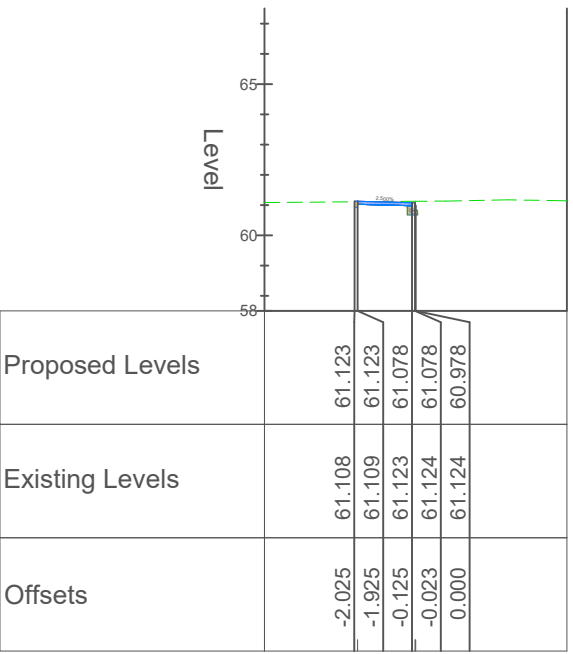
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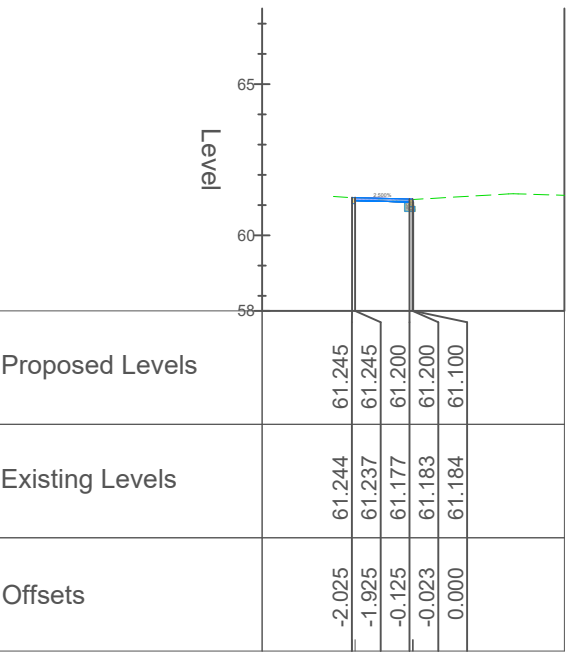
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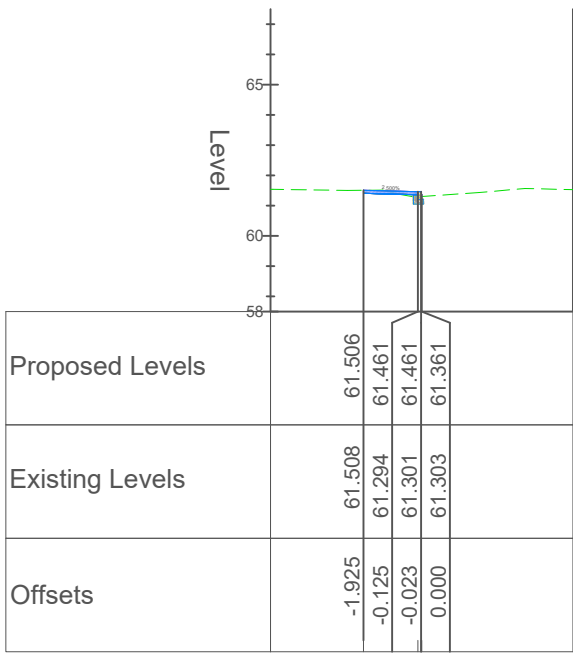
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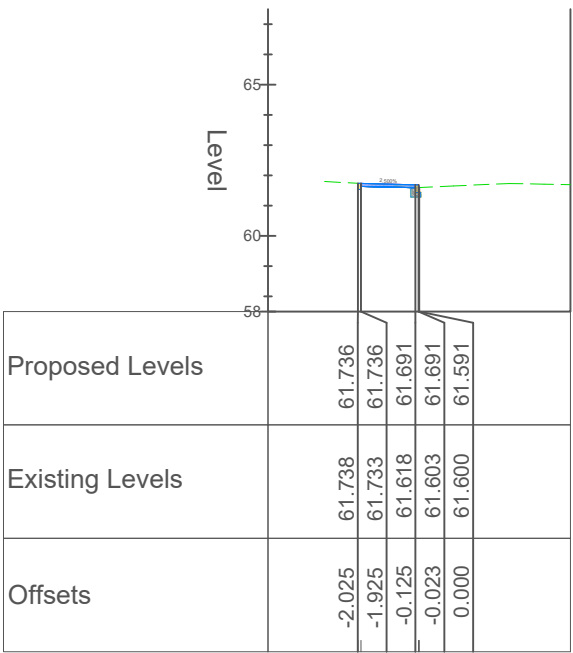
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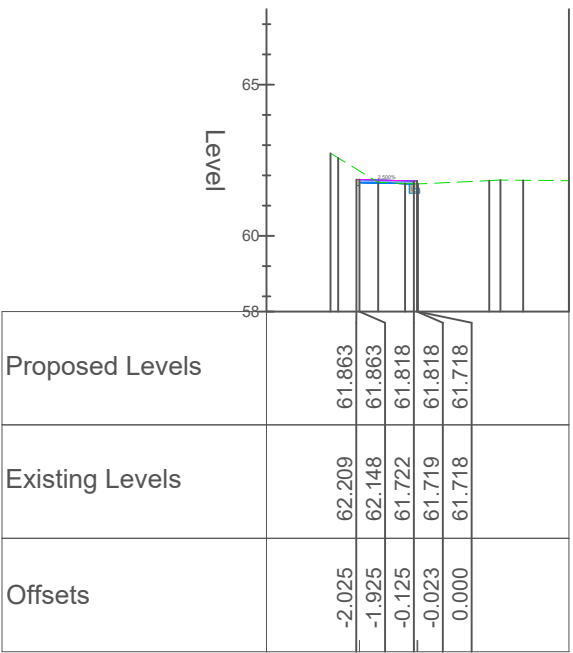
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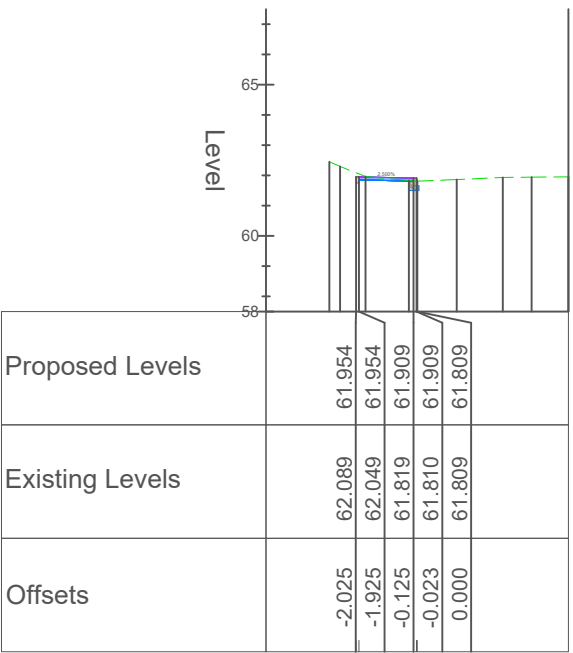
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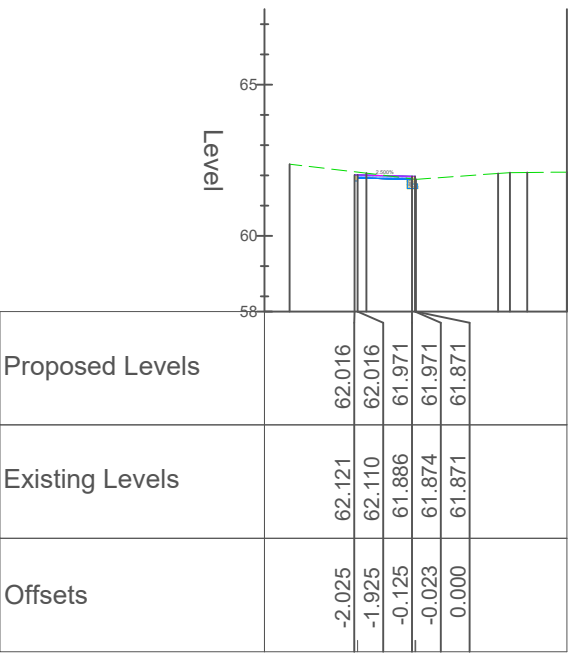
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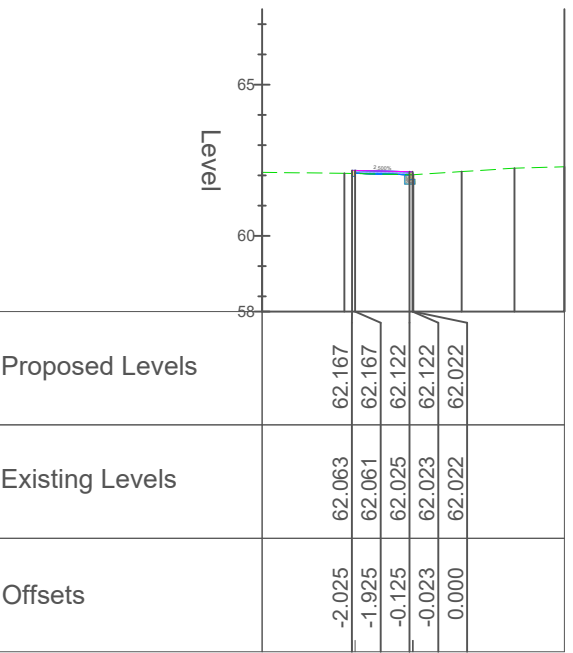
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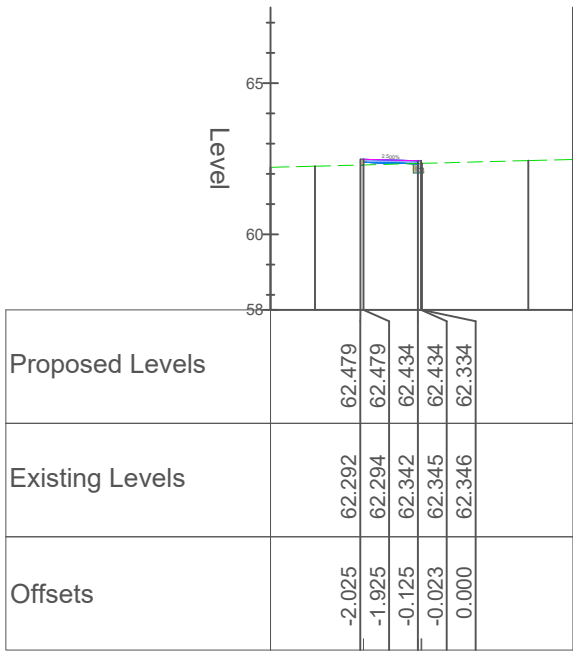
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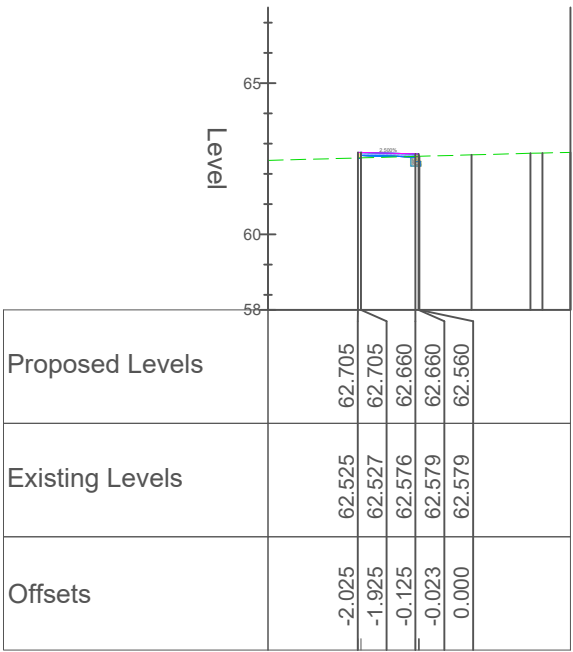
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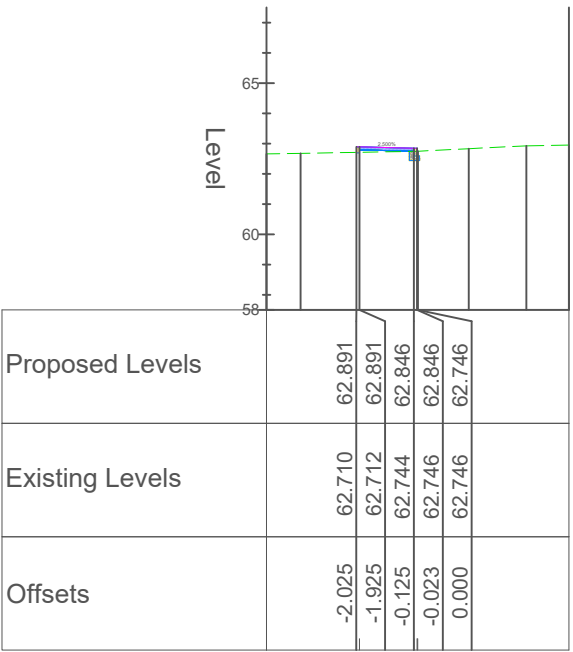
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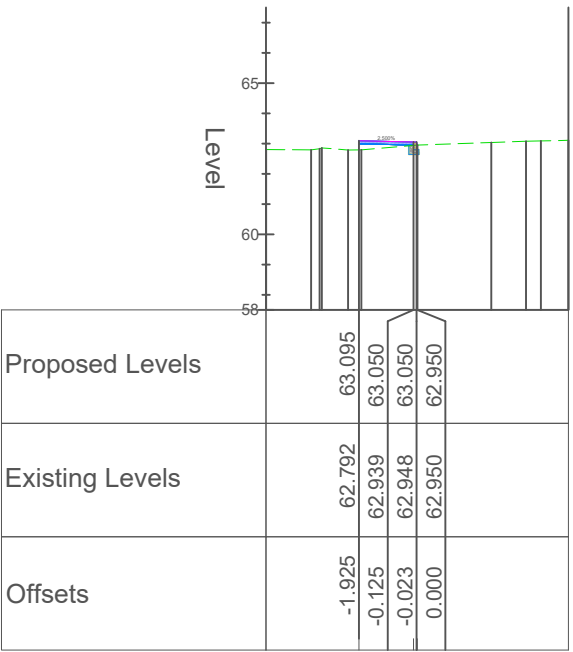
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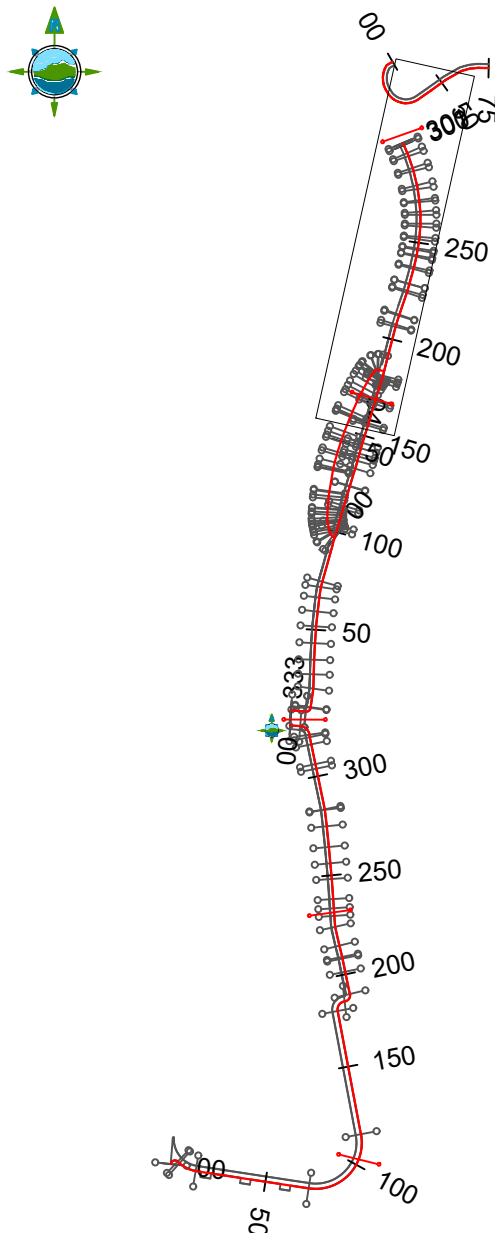
Chainage 280.000 (102)



Chainage 290.000 (103)



Chainage 300.000 (104)



KEY MAP

LEGEND

- Proposed Design Level
- Existing Ground Level

D03	26/07/23	Planning Issue	KP	DMcH	
D02	06/06/23	Planning Issue	KP	DMcH	
D01	28/04/23	Planning Issue	KP	RM	
Rev	Date	Description	By	Chkd.	

Client:



comhairle chontae na meath
meath county council

Meath County Council

Project:

Newtown Road Trim Active Travel

Title:

Geometric Design, Profiles & Cross-Sections

Prepared by:

KP

Checked:

RM

Date:

July 2023

Project Director:

JOF

Drawing Status:

Planning Issue

Scale @ A1:

1:250

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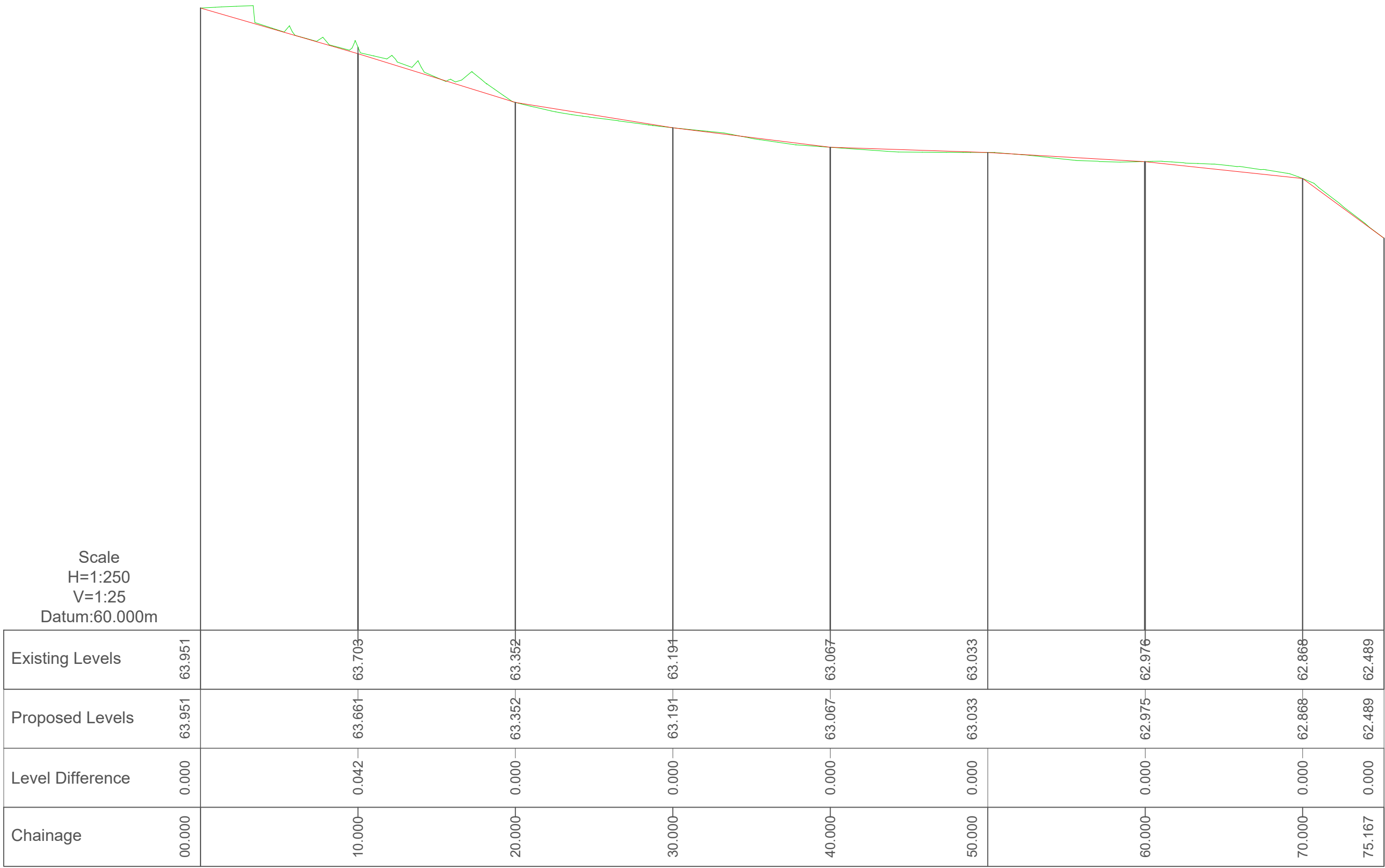
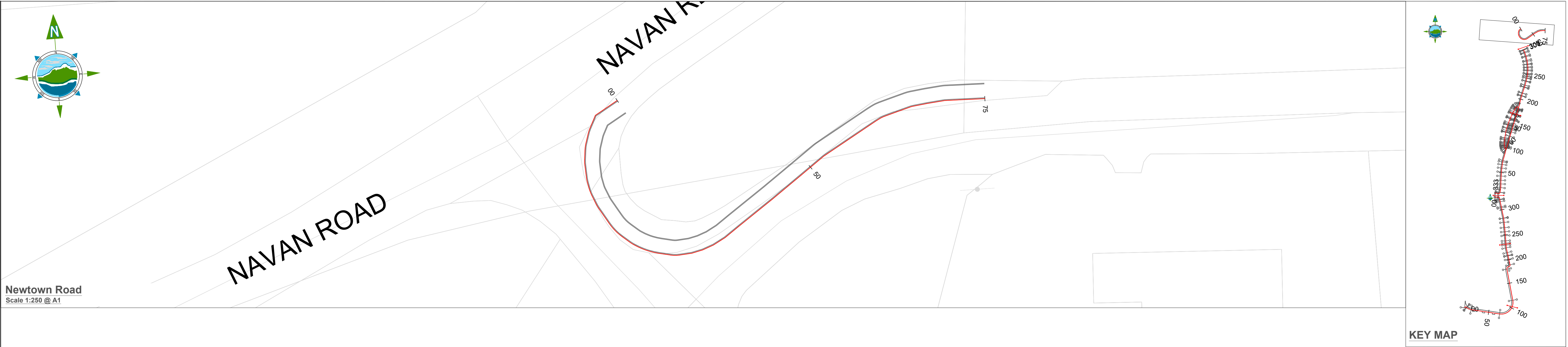
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Drawing No.:

11587-2308

Revision:

D03




LEGEND

Proposed Design Level

Existing Ground Level

D03	26/07/23	Planning Issue	KP	DMcH	
D02	06/06/23	Planning Issue	KP	DMcH	
D01	28/04/23	Planning Issue	KP	RM	
Rev	Date	Description	By	Chkd.	

Client:



comhairle chontae na mí

meath county council

Meath County Council

Project:

Newtown Road Trim Active Travel

Title:

Geometric Design, Profiles & Cross-Sections

Prepared by:

KP

Checked:

RM

Date:

July 2023

Project Director:

JOF

Drawing Status:

Planning Issue

Scale @ A1:

1:250

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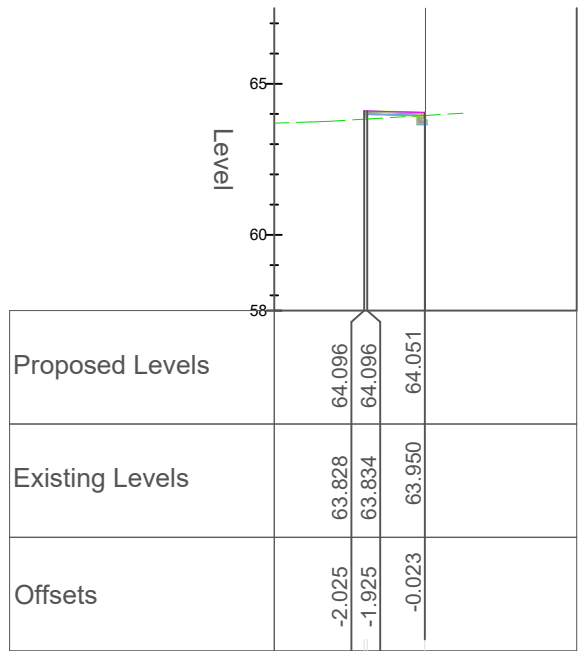
Drawing No.:

11587-2309

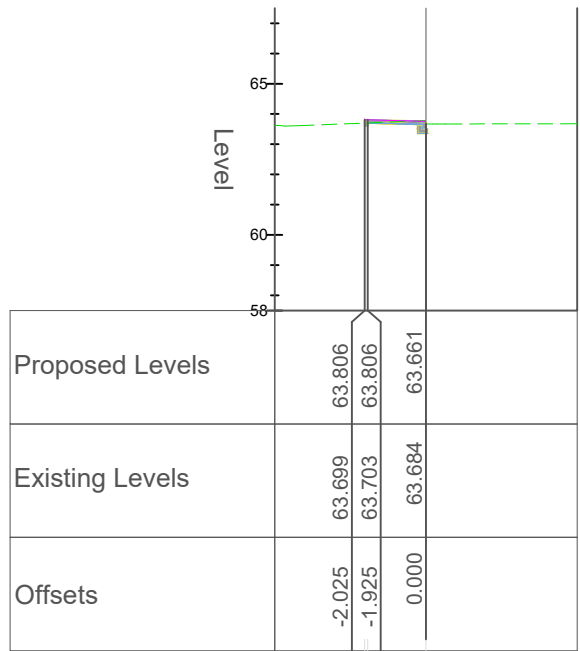
Revision:

D03

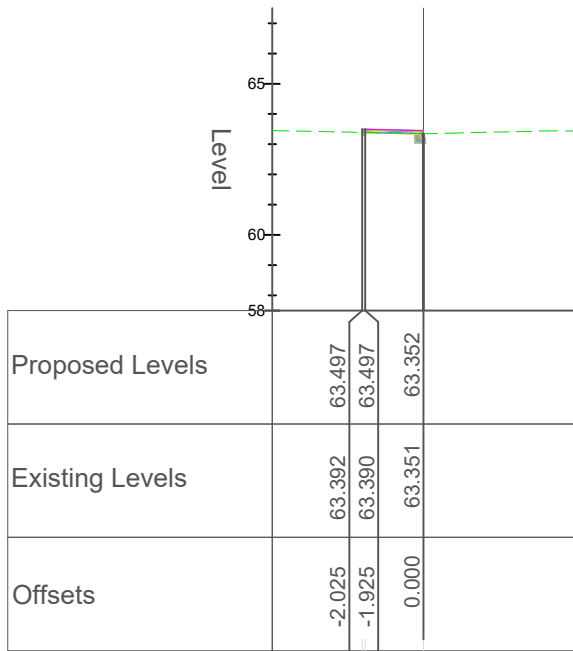
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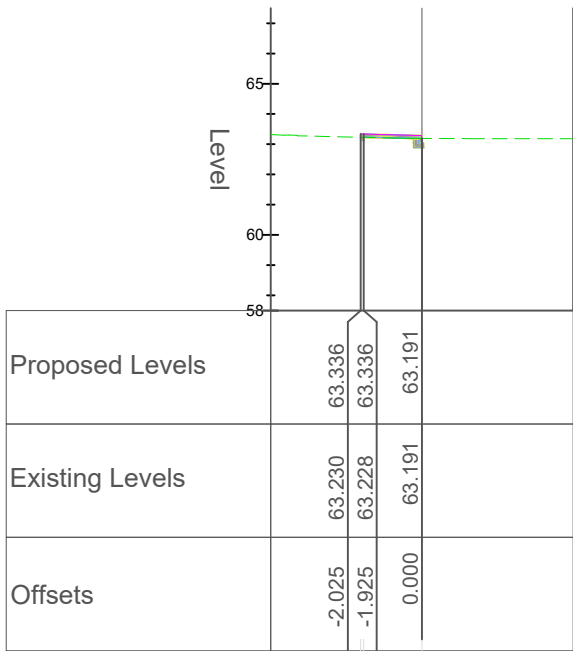
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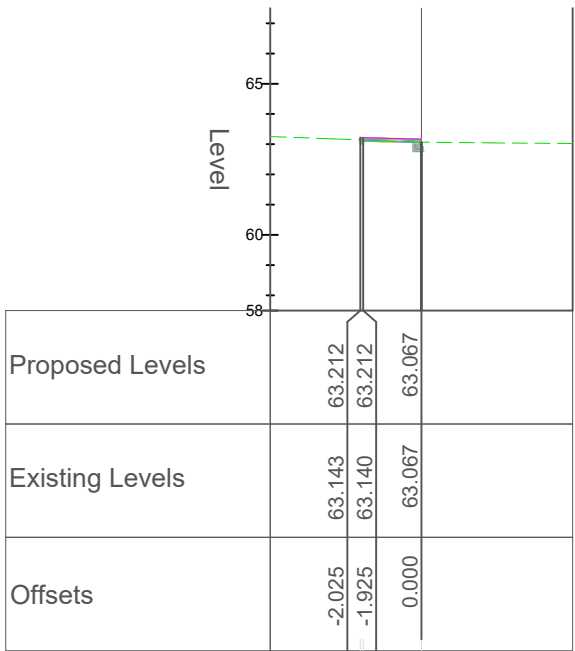
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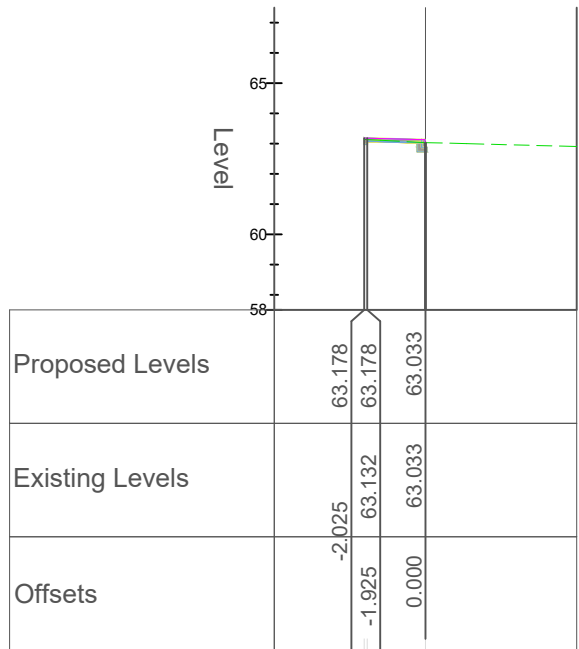
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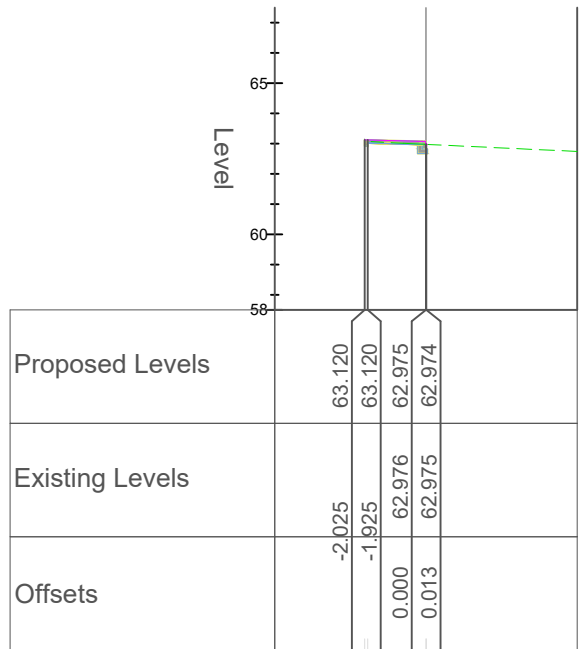
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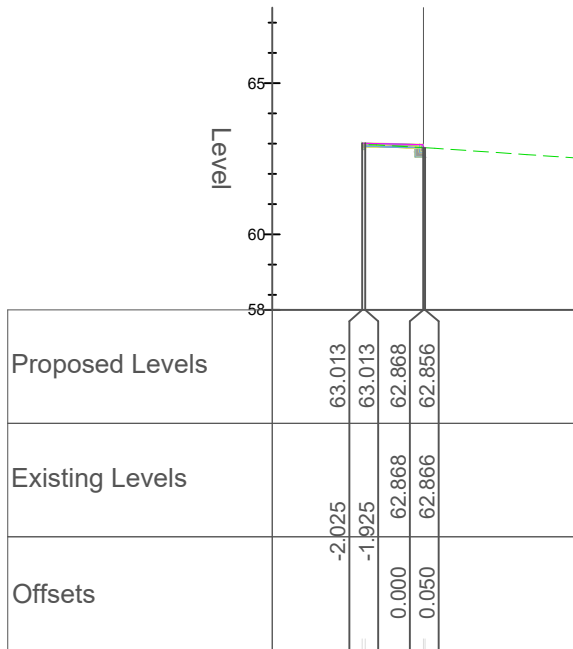
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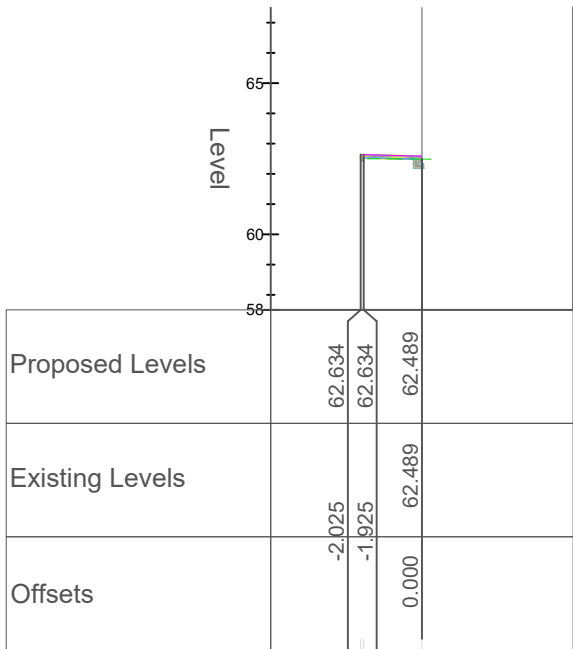
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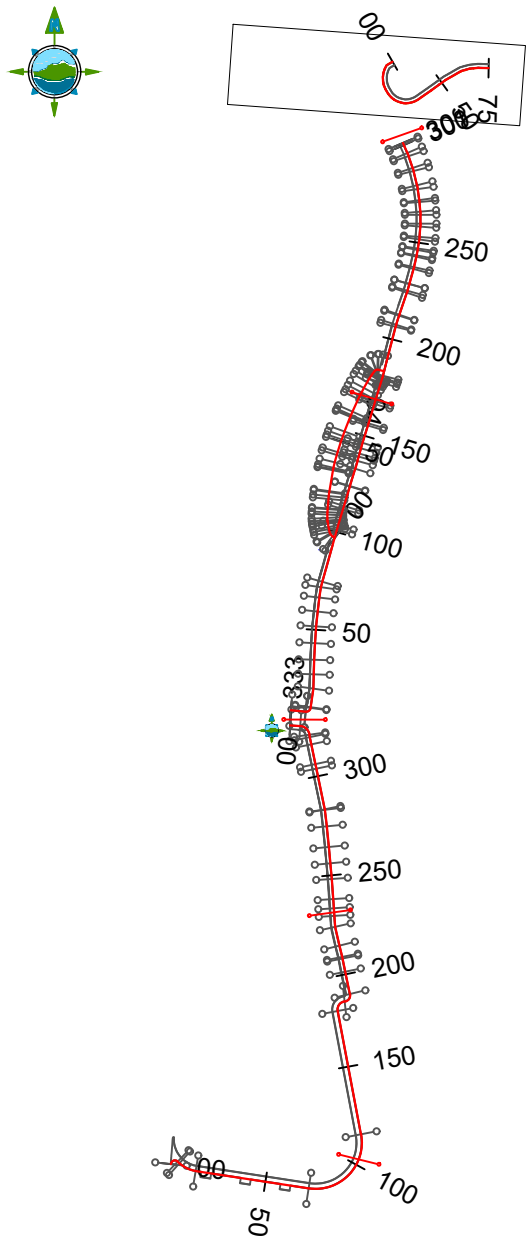
Chainage 60.000 (124)



Chainage 70.000 (125)



Chainage 75.167



KEY MAP

LEGEND

- Proposed Design Level
- Existing Ground Level

D03	26/07/23	Planning Issue	KP	DMcH	
D02	06/06/23	Planning Issue	KP	DMcH	
D01	28/04/23	Planning Issue	KP	RM	
Rev	Date	Description	By	Chkd.	

Client:



comhairle chontae na mí
meath county council

Meath County Council

Project:

Newtown Road Trim Active Travel

Title:

Geometric Design, Profiles & Cross-Sections

Prepared by:

KP

Checked:

RM

Date:

July 2023

Project Director:

JOF

Drawing Status:

Planning Issue

Scale @ A1:

1:250

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Drawing No.:

11587-2310

Revision:

D03



Link Road to Newtown Road
Scale 1:250 @ A1

LEGEND:

- Existing Kerb
- Proposed Footway
- Proposed Tactile Paving (Buff)
- Raise Table
- Existing Footpath to be retained
- 100mm Kerb - CC-SCD-01101 Type A
- 06mm Kerb - CC-SCD-01101 Type D
- 100mm - 06mm Drop Kerb
- 50mmx100mm Pin Kerb
- 25mm Trafficable Kerb

NOTES:


- Drawings to be read in conjunction with Volume A - Specification & Works Requirements
- Refer to Section 1 of the Works Requirements for Kerbing and Paved Types
- For Pavement refer to Pavement drawings and Section 1 of the Works Requirements

D02	17/07/23	Planning Issue	KP	DMcH	
D01	29/06/23	Planning Issue	KP	RM	
Rev	Date	Description	By	Chkd.	



Newtown Road
Scale 1:250 @ A1

Client:

 **comhairle chontae na mí**
meath county council

Meath County Council

Prepared by: KP

Checked: RM

Date: July 2023

Project Director: JOF

Drawing Status: Planning Issue

Scale @ A1: 1:250

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Revision: **D02**

Project: **Newtown Road Trim Active Travel**

Title: **Kerbing and Paved Areas**

Drawing No.: **11587-2420**



Newtown Road
Scale 1:250 @ A1

Newtown Road
Scale 1:250 @ A1

LEGEND:

	Proposed Footway
	Proposed Tactile Paving (Buff)
	Raise Table
	Existing Footpath to be retained

NOTES:

- Drawings to be read in conjunction with Volume A - Specification & Works Requirements
- Refer to Section 1 of the Works Requirements for Kerbing and Paved Types
- For Pavement refer to Pavement drawings and Section 1 of the Works Requirements

	Existing Kerb
	100mm Kerb - CC-SCD-01101 Type A
	06mm Kerb - CC-SCD-01101 Type D
	100mm - 06mm Drop Kerb
	50mmx100mm Pin Kerb
	25mm Trafficable Kerb

D02	17/07/23	Planning Issue	KP	DMcH	
D01	29/06/23	Planning Issue	KP	RM	
Rev	Date	Description	By	Chkd.	

Client:

comhairle chontae na mí
meath county council

Meath County Council

Project:

Newtown Road Trim Active Travel

Title:

Kerbing and Paved Areas

Prepared by:

KP

Checked:

RM

Date:

June 2023

Project Director:

JOF

Drawing Status:

Planning Issue

Scale @ A1:

1:250

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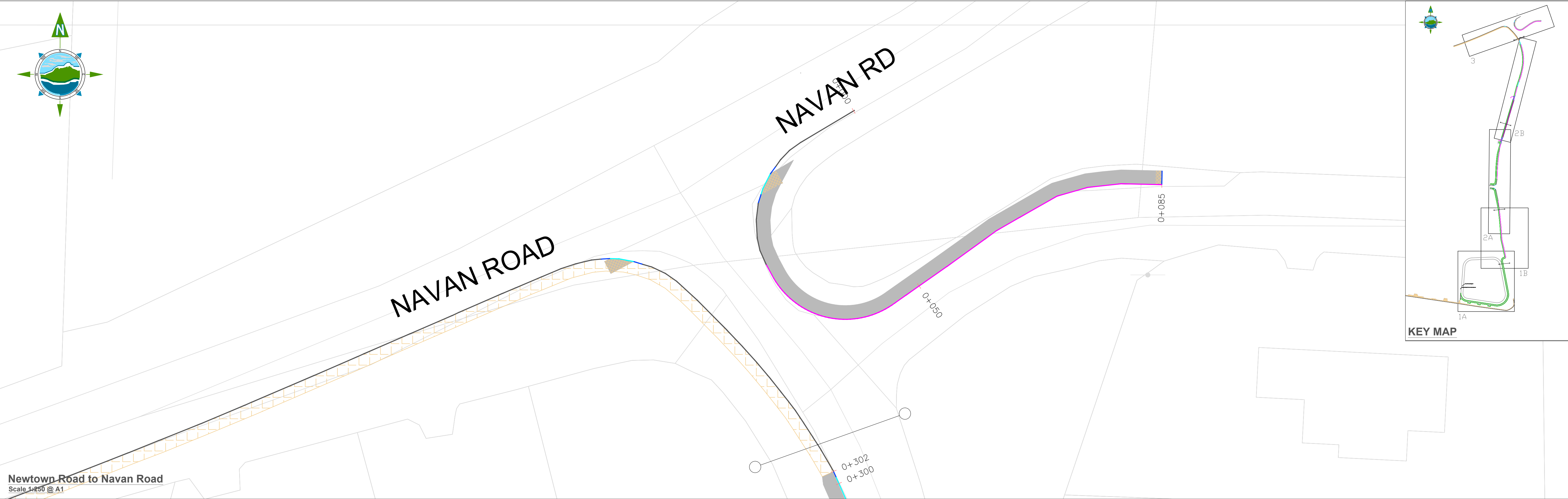
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Drawing No.:

11587-2421

Revision:

D02



Newtown Road to Navan Road
Scale 1:250 @ A1

LEGEND:

Existing Kerb

Proposed Footway

Proposed Tactile Paving (Buff)

Raise Table

Existing Footpath to be retained

100mm Kerb - CC-SCD-01101 Type A

06mm Kerb - CC-SCD-01101 Type D

100mm - 06mm Drop Kerb

50mmx100mm Pin Kerb

25mm Trafficable Kerb

NOTES:

1. Drawings to be read in conjunction with Volume A - Specification & Works Requirements

2. Refer to Section 1 of the Works Requirements for Kerbing and Paved Types

3. For Pavement refer to Pavement drawings and Section 1 of the Works Requirements

D02	17/07/23	Planning Issue	KP	DMcH	
D01	29/06/23	Planning Issue	KP	RM	
Rev	Date	Description	By	Chkd.	

Client:

comhairle chontae na mí
meath county council

Meath County Council

Project:

Newtown Road Trim Active Travel

Title:

Kerbing and Paved Areas

Prepared by:

KP

Checked:

RM

Date:

June 2023

Project Director:

JOF

Drawing Status:

Planning Issue

Scale @ A1:

1:250

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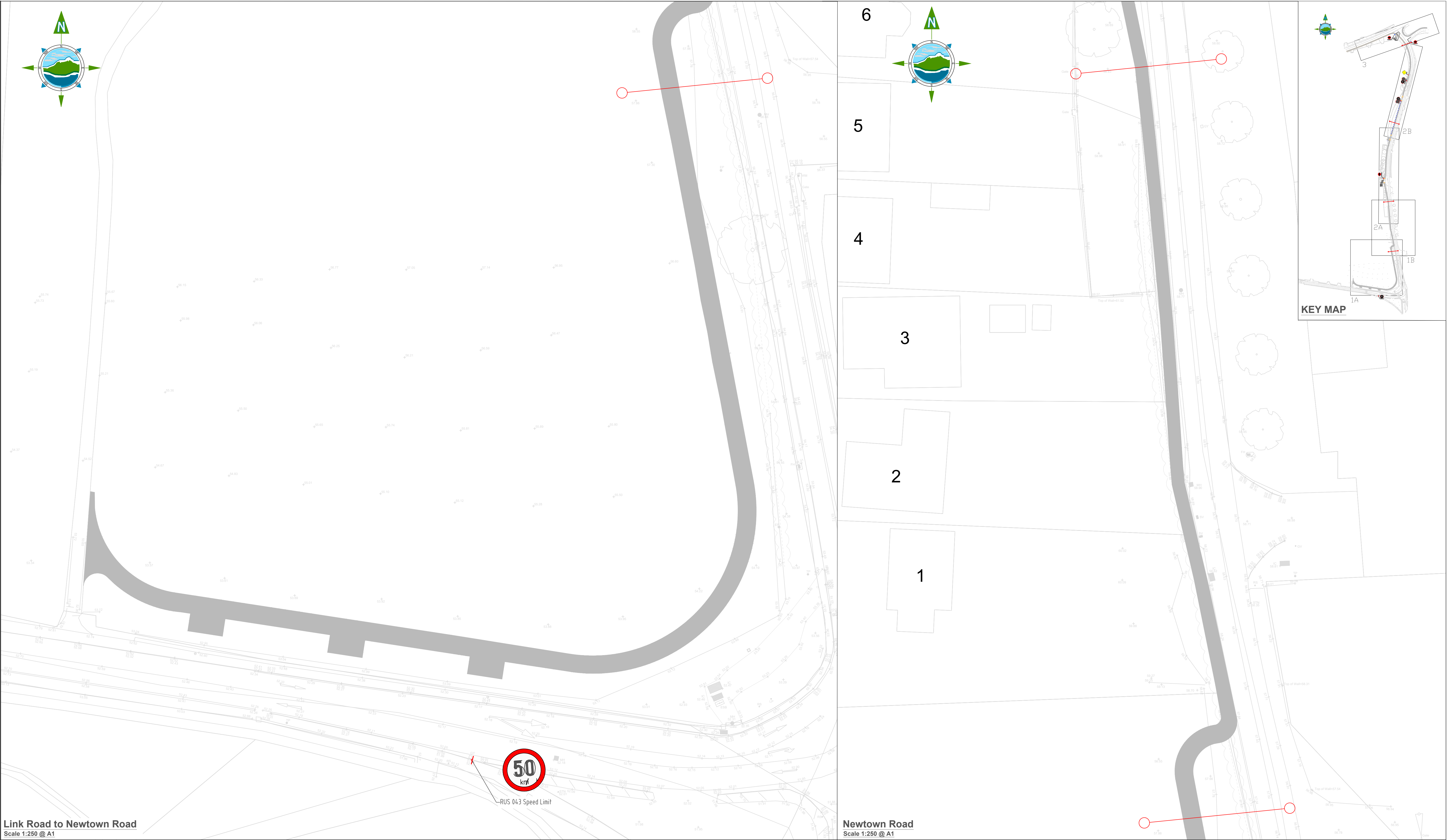
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Drawing No.: **11587-2422**

Revision:

D02





Link Road to Newtown Road
Scale 1:250 @ A1

Newtown Road
Scale 1:250 @ A1

LEGEND:

- RRM 017 STOP line width 200 mm
- M 114 STOP text high 1600 mm
- RRM 001 line width 100 mm

 Proposed Sign


 Existing Sign

NOTES:

- Drawings to be read in conjunction with Volume A - Specification & Works Requirements

Rev	Date	Description	By	Chkd.
D03	18/07/23	Planning Issue	KP	DMcH
D02	06/06/23	Planning Issue	KP	DMcH
D01	28/04/23	Planning Issue	KP	RM

Client:



comhairle chontae na mí
meath county council

Meath County Council

Project:

Newtown Road Trim Active Travel

Title:

Traffic Sign and Road Markings

Prepared by:

KP

Checked:

RM

Date:

July 2023

Project Director:


JOF

Drawing Status:

Planning Issue

Scale @ A1:

1:250



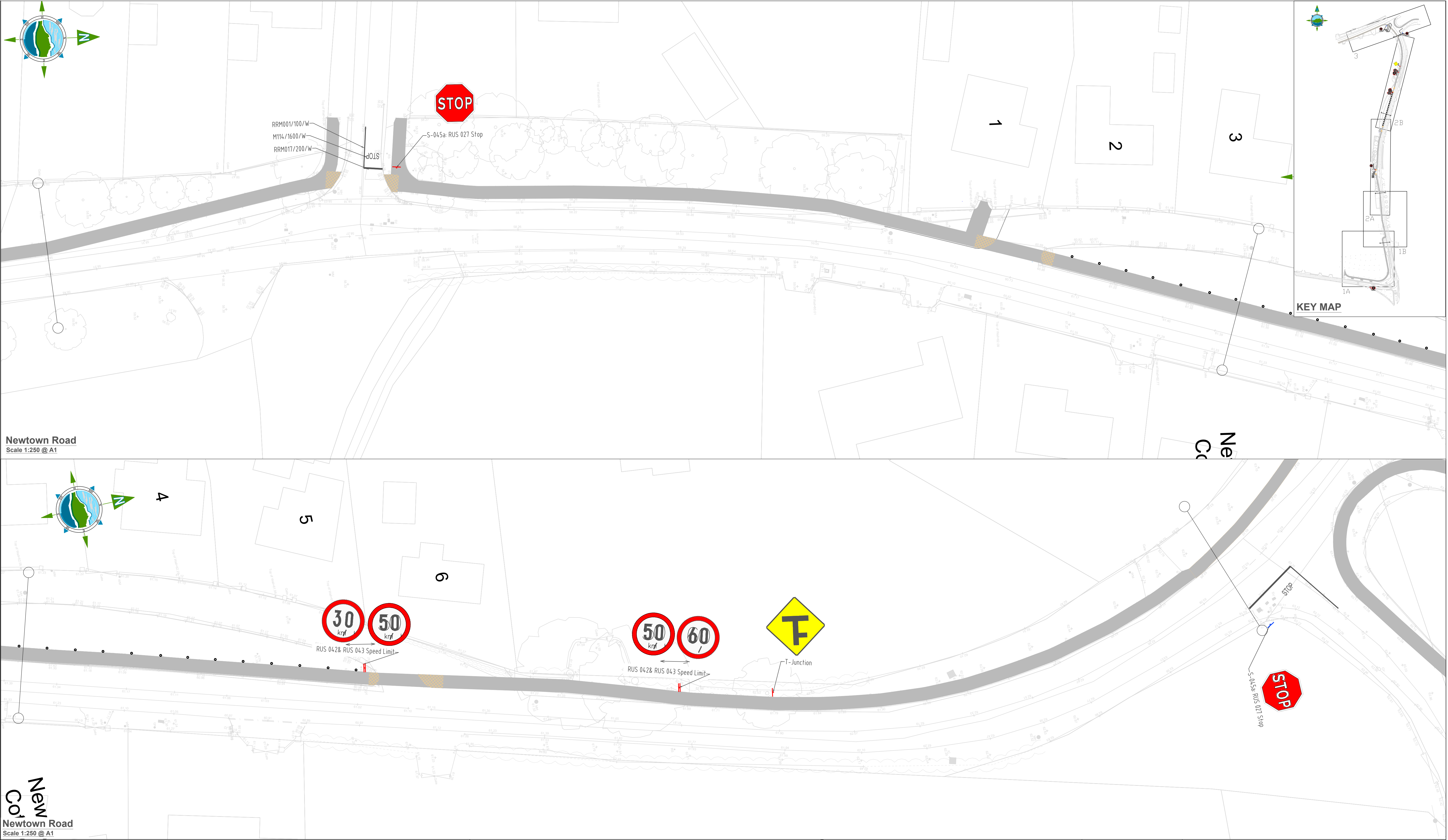
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Drawing No.: **11587-2500**


Revision:


D03



LEGEND:

- RRM 017 STOP line width 200 mm
- M 114 STOP text high 1600 mm
- RRM 001 line width 100 mm

 Proposed Sign


 Existing Sign

NOTES:

- Drawings to be read in conjunction with Volume A - Specification & Works Requirements

Rev	Date	Description	By	Chkd.
D03	18/07/23	Planning Issue	KP	DMcH
D02	06/06/23	Planning Issue	KP	DMcH
D01	28/04/23	Planning Issue	KP	RM

Client:



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meath county council

Meath County Council

Project:

Newtown Road Trim Active Travel

Title:

Traffic Sign and Road Markings

Prepared by:

KP

Checked:

RM

Date:

June 2023

Project Director:


JOF

Drawing Status:

Planning Issue

Scale @ A1:

1:250



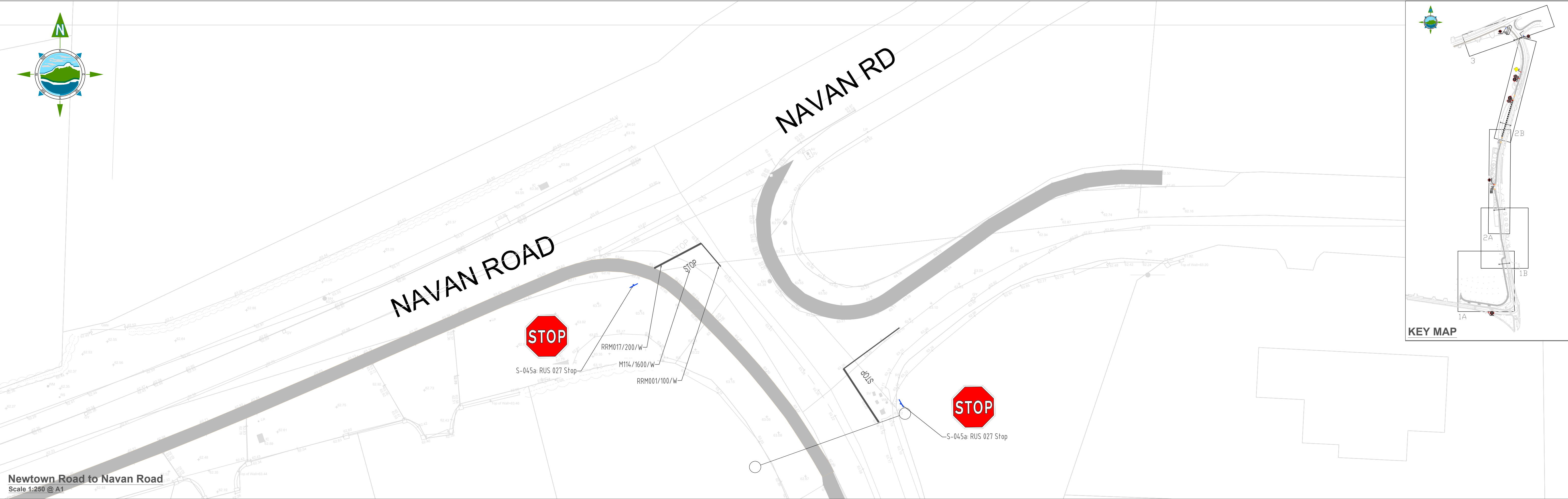
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Revision:


D03


Drawing No.: **11587-2501**



LEGEND:

- RRM 017 STOP line width 200 mm
- M 114 STOP text high 1600 mm
- RRM 001 line width 100 mm

 Proposed Sign


 Existing Sign

NOTES:

1. Drawings to be read in conjunction with Volume A – Specification & Works Requirements

D03	18/07/23	Planning Issue	KP	DMcH	
D02	06/06/23	Planning Issue	KP	DMcH	
D01	28/04/23	Planning Issue	KP	RM	
Rev	Date	Description	By	Chkd.	

Client:



comhairle chontae na mí
meath county council

Meath County Council

Prepared by: KP

Checked: RM

Date: June 2023

Project Director: JOF

Drawing Status: Planning Issue

Scale @ A1: 1:250

Project: Newtown Road Trim Active Travel

Title: Traffic Sign and Road Markings

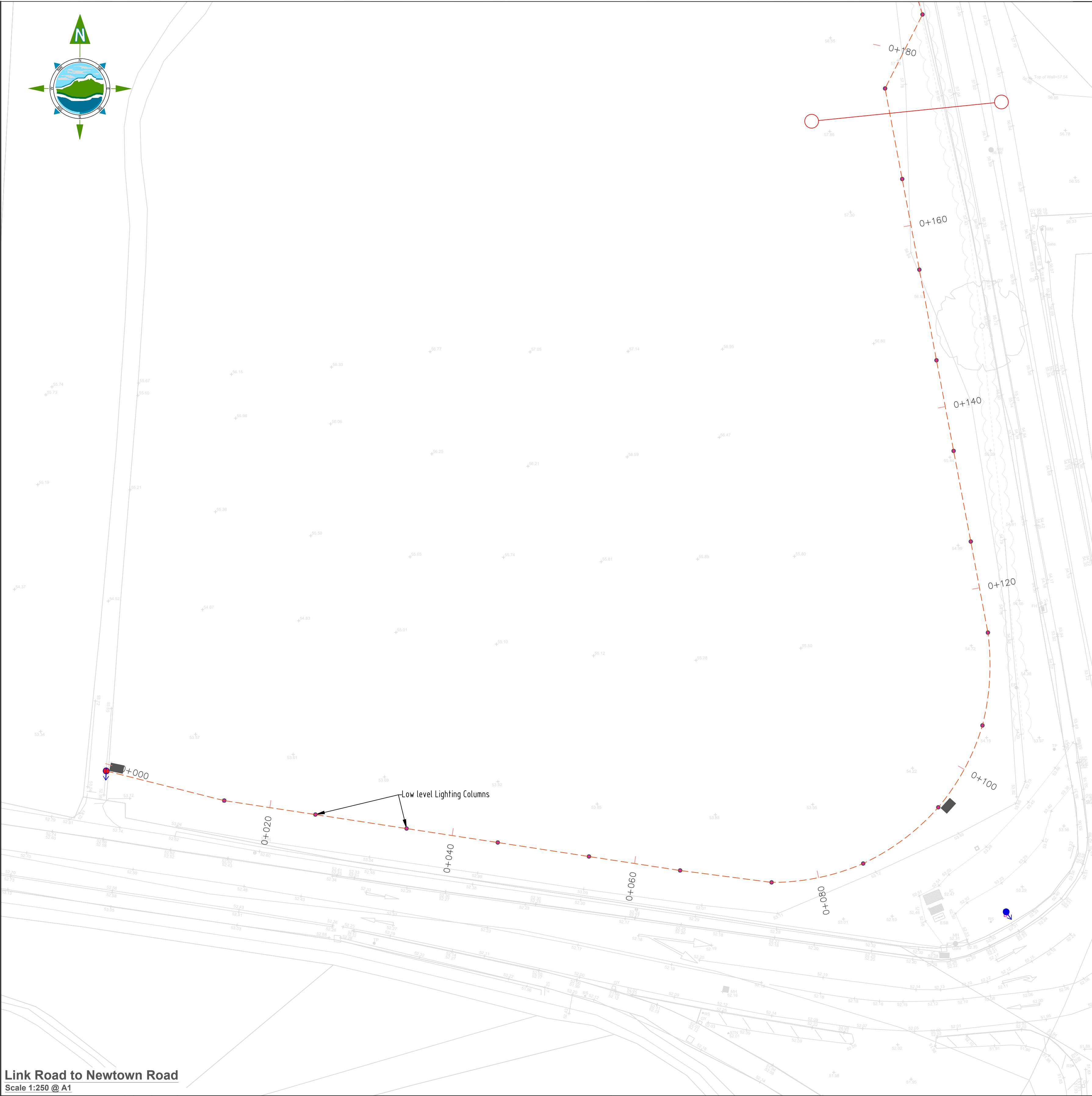
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Drawing No.: **11587-2502**

Revision: **D03**



Link Road to Newtown Road
Scale 1:250 @ A1



LIGHTING LEGEND:					
	Existing Lighting Columns - LED or Sodium Vapour				
	Proposed Lighting Columns - LED or Sodium Vapour				
	Proposed 100mm Heavy Duty Rigid PVC Duct (RED), (See Note 1)				
	Existing Overhead Network				
	Mini pillar and connection locations to be agreed with service provider				
	Low Level Lighting Bollards				

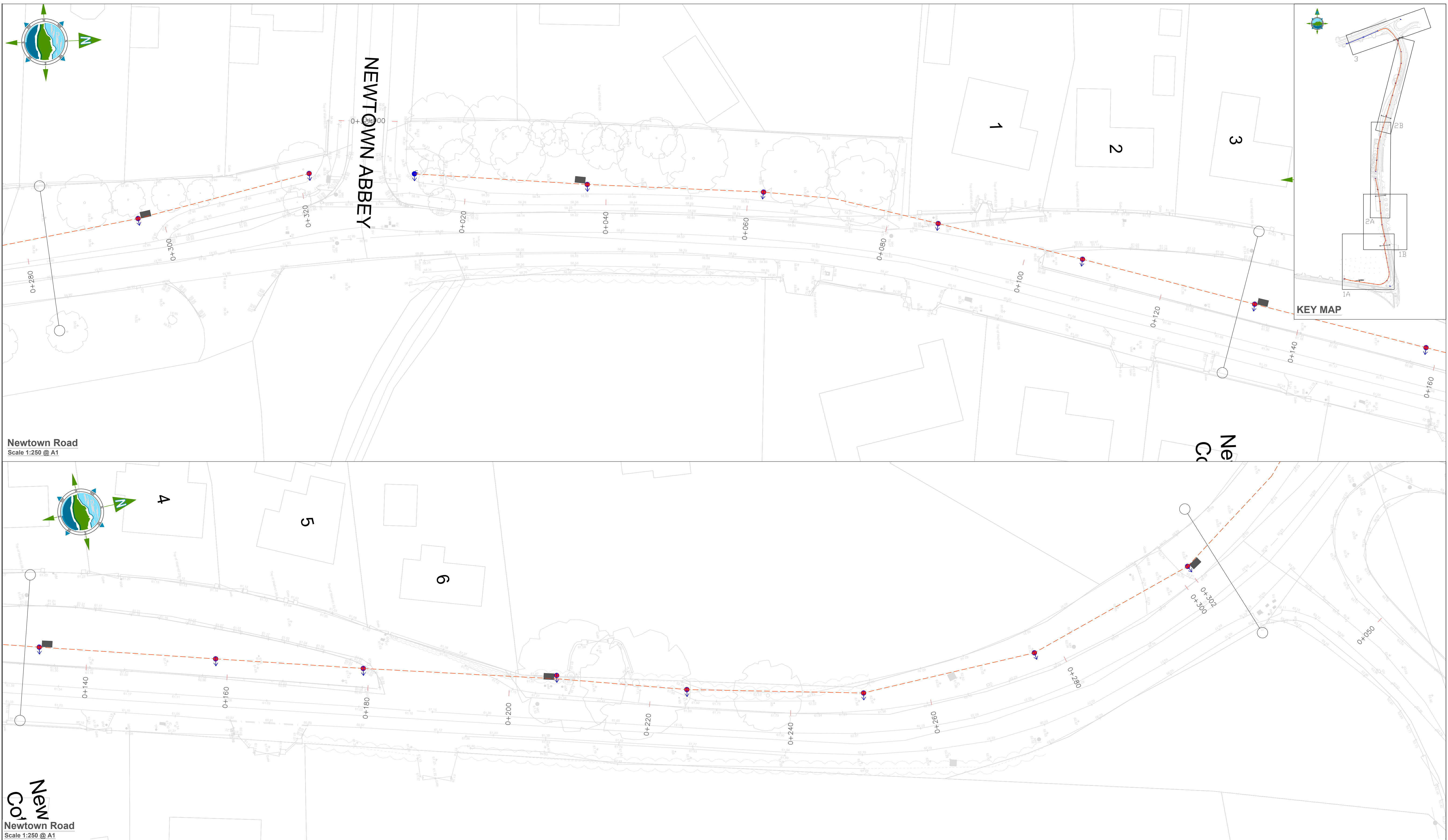
UTILITIES NOTES:					
1.	Road crossing Lighting Columns shall be 2 x 100 mm. dia. heavy duty rigid PVC (red).				
2.	Drawings to be read in conjunction with Series 500 Appendices and Schedules and Series 1500 SPW.				
3.	Chamber covers shall be Class D400 unless otherwise specified.				
4.	Chambers shall be located towards the back of verge (location illustrative on drawing).				

Rev	Date	Description	By	Chkd.
D02	18/07/23	Planning Issue	KP	DMcH
D01	28/04/23	Planning Issue	KP	RM

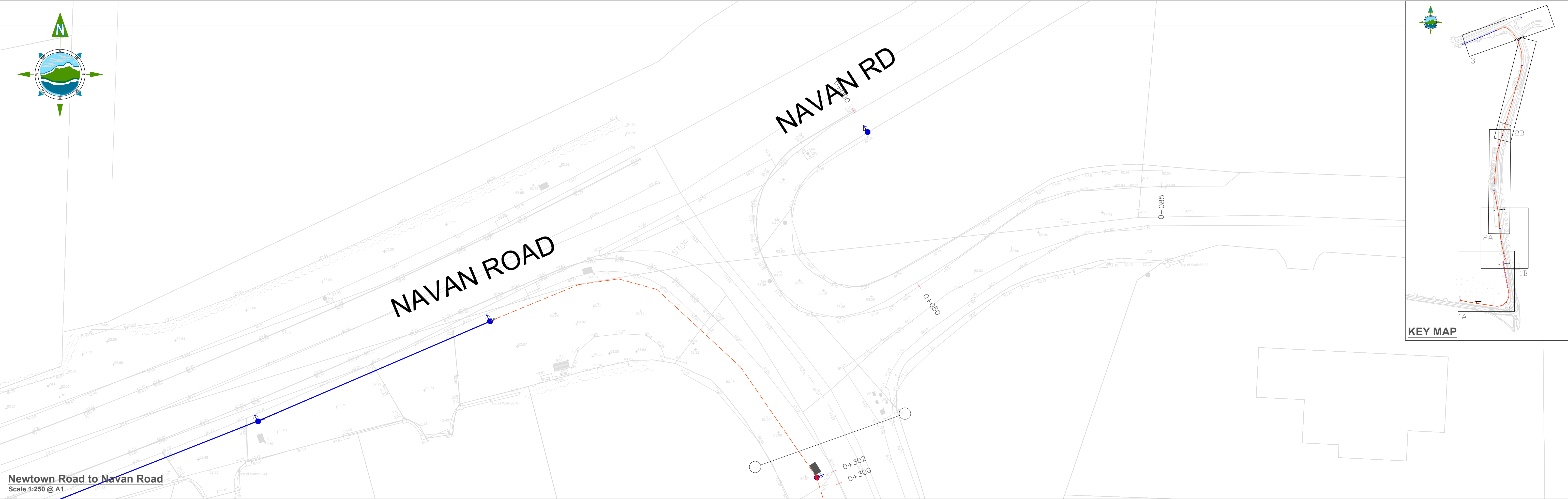


Newtown Road
Scale 1:250 @ A1

<div><div></div><div>comhairle chontae na mí meath county council</div></div> <div>Meath County Council</div>		<div>Prepared by:</div> <div>KP</div>		<div><div></div><div>TOBIN Consulting Engineers, Market Square, Castlebar, Co. Mayo, Ireland. tel: +353-(0)94-9021401 fax: +353-(0)94-9021534 e-mail: castlebar@tobin.ie www.tobin.ie</div></div>		
		<div>Checked:</div> <div>RM</div>				
		<div>Date:</div> <div>July 2023</div>				
		<div>Project Director:</div> <div>JOF</div>				
<div>Project:</div> <div>Newtown Road Trim Active Travel</div>		<div>Drawing Status:</div> <div>Planning Issue</div>		<div>TOBIN Consulting Engineers will not be liable for any use of this document for any purpose other than that for which it was originally prepared and provided. Except where specifically and explicitly agreed in writing by TOBIN Consulting Engineers, as copyright holder, no part of this document may be reproduced or transmitted in any form and this document shall not be relied upon by any third party for any purpose.</div> <div><div>Drawing No.:</div><div>11587-2580</div></div>		
<div>Title:</div> <div>Lighting Plan</div>		<div>Scale @ A1:</div> <div>1:250</div>				<div>Revision:</div> <div>D02</div>



</



LIGHTING LEGEND:

- Existing Lighting Columns – LED or Sodium Vapour
- Proposed Lighting Columns – LED or Sodium Vapour
- Proposed 100mm Heavy Duty Rigid PVC Duct (RED), (See Note 1)
- Existing Overhead Network
- Mini pillar and connection locations to be agreed with service provider
- Low Level Lighting Bollards

UTILITIES NOTES:

- Road crossing ducts shall be 2 x 100 mm. dia. heavy duty rigid PVC (red).
- Drawings to be read in conjunction with Series 500 Appendices and Schedules and Series 1500 SPW. Chamber covers shall be Class D400 unless otherwise specified.
- Chambers shall be located towards the back of verge (location illustrative on drawing).

D02	18/07/23	Planning Issue	KP	DMcH	
D01	28/04/23	Planning Issue	KP	RM	
Rev	Date	Description	By	Chkd.	

Client:

comhairle chontae na mí
meath county council

Meath County Council

Project:

Newtown Road Trim Active Travel

Title:

Lighting Plan

Prepared by:

KP

Checked:

RM

Date:

June 2023

Project Director:

JOF

Drawing Status:

Planning Issue

Scale @ A1:

1:250

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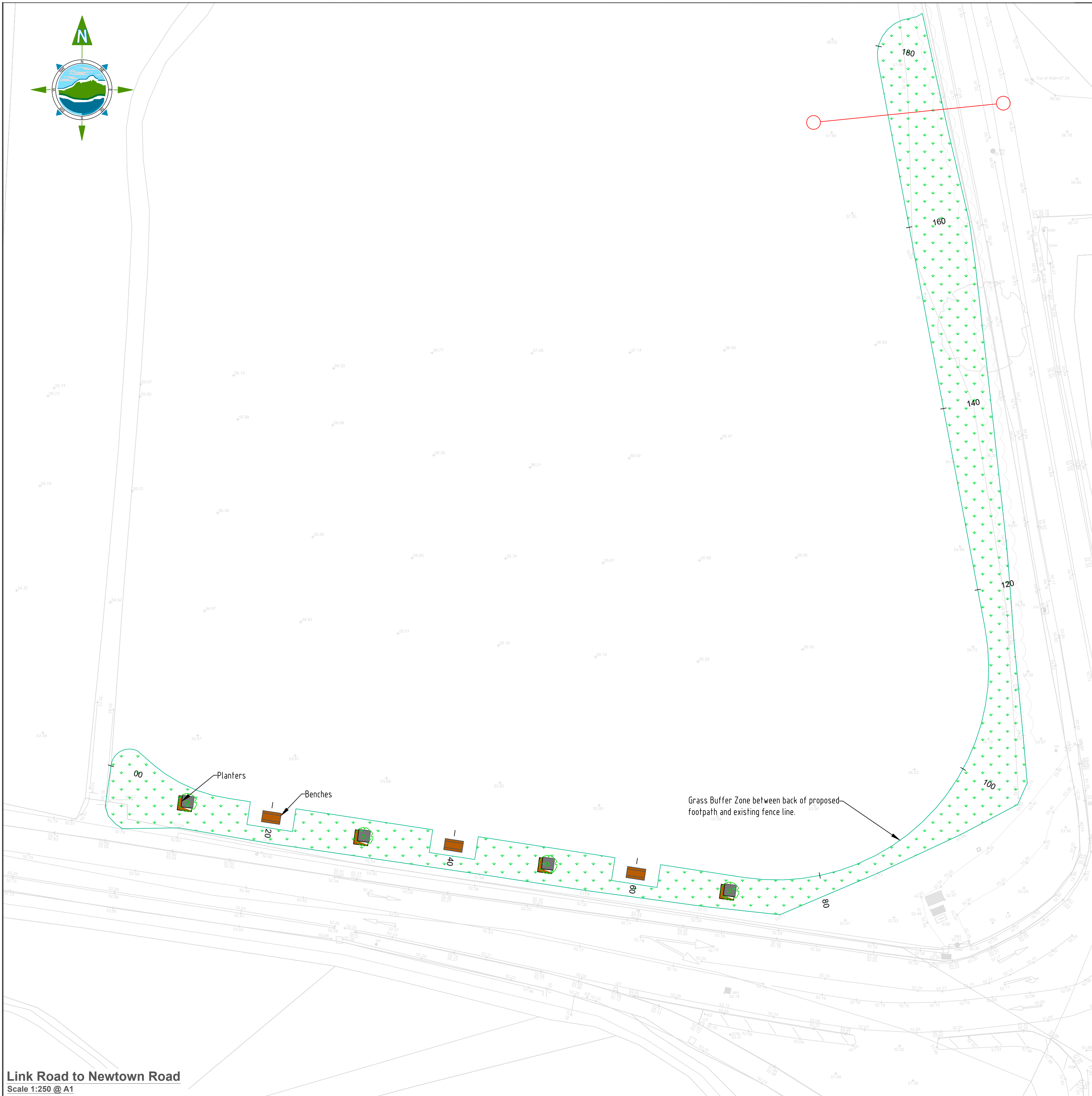
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Revision:



D02

Drawing No.:

11587-2582




LANDSCAPE LEGEND		C
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LANDSCAPING LEGEND:					
	Proposed Landscaping				
	Existing Landscaping				
	Extended Existing Rubble Footpath				



Client:	Prepared by:	FORNIA
---------	--------------	--------

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Meath County Council		Checked: RM		TOBIN Consulting Engineers will not be liable for any use of this document for any purpose other than that for which it was originally prepared and provided. Except where specifically and explicitly agreed in writing by TOBIN Consulting Engineers, as copyright holder, no part of this document may be reproduced or transmitted in any form and this document shall not be relied upon by any third party for any purpose. Drawing No.: 11587-2800	
Date: July 2023		Project Director: JOF			
Project: Newtown Road Trim Active Travel		Drawing Status: Planning Issue			
Title: Landscaping Details		Scale @ A1: 1:250			
				Revision: D03	




LANDSCAPING LEGEND:

- Proposed Landscaping
- Existing Landscaping
- Extended Existing Rubble Footpath

Rev	Date	Description	By	Chkd.
D03	17/07/23	Planning Issue	KP	DMcH
D02	06/06/23	Planning Issue	KP	DMcH
D01	28/04/23	Planning Issue	KP	RM

Client:

 **comhairle chontae na mí**
meath county council

Meath County Council

Project:

Newtown Road Trim Active Travel

Title:

Landscaping Details

Prepared by:

KP

Checked:

RM

Date:

June 2023

Project Director:

JOF

Drawing Status:

Planning Issue

Scale @ A1:

1:250

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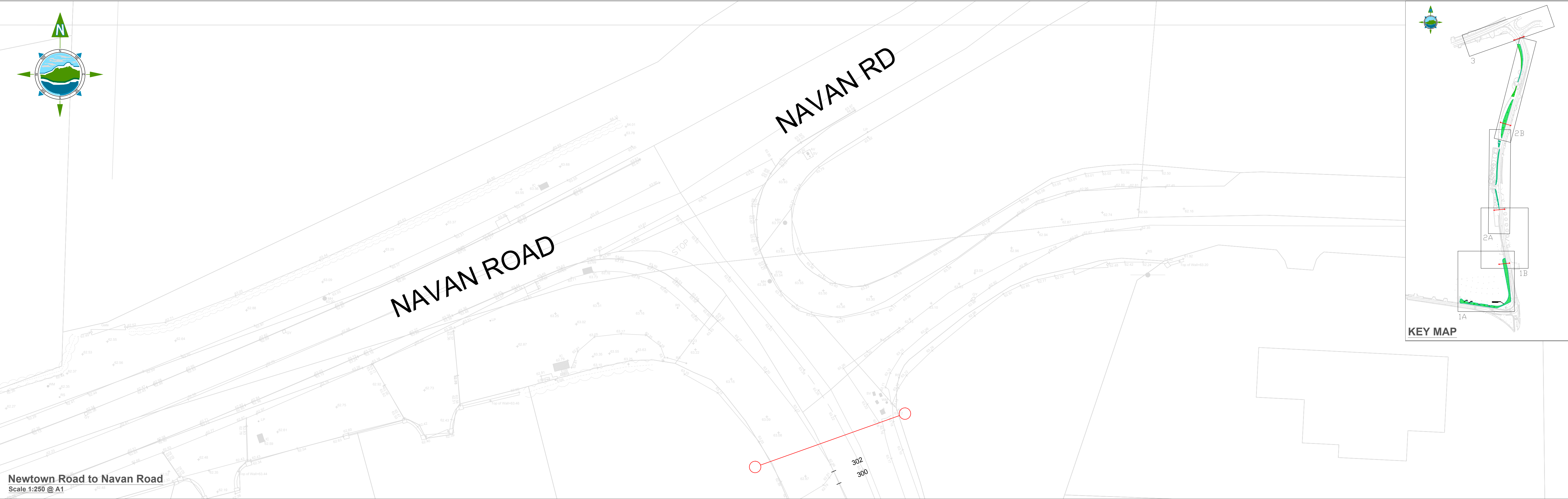
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Revision:

D03

Drawing No.: 11587-2801



Newtown Road to Navan Road
Scale 1:250 @ A1

LANDSCAPING LEGEND:

- Proposed Landscaping
- Existing Landscaping
- Extended Existing Rubble Footpath

Rev	Date	Description	By	Chkd.
D03	17/07/23	Planning Issue	KP	DMcH
D02	06/06/23	Planning Issue	KP	DMcH
D01	28/04/23	Planning Issue	KP	RM

Client:

comhairle chontae na mí
meath county council

Meath County Council

Project:

Newtown Road Trim Active Travel

Title:

Landscaping Details

Prepared by:

KP

Checked:

RM

Date:

June 2023

Project Director:

JOF

Drawing Status:

Planning Issue

Scale @ A1:

1:250

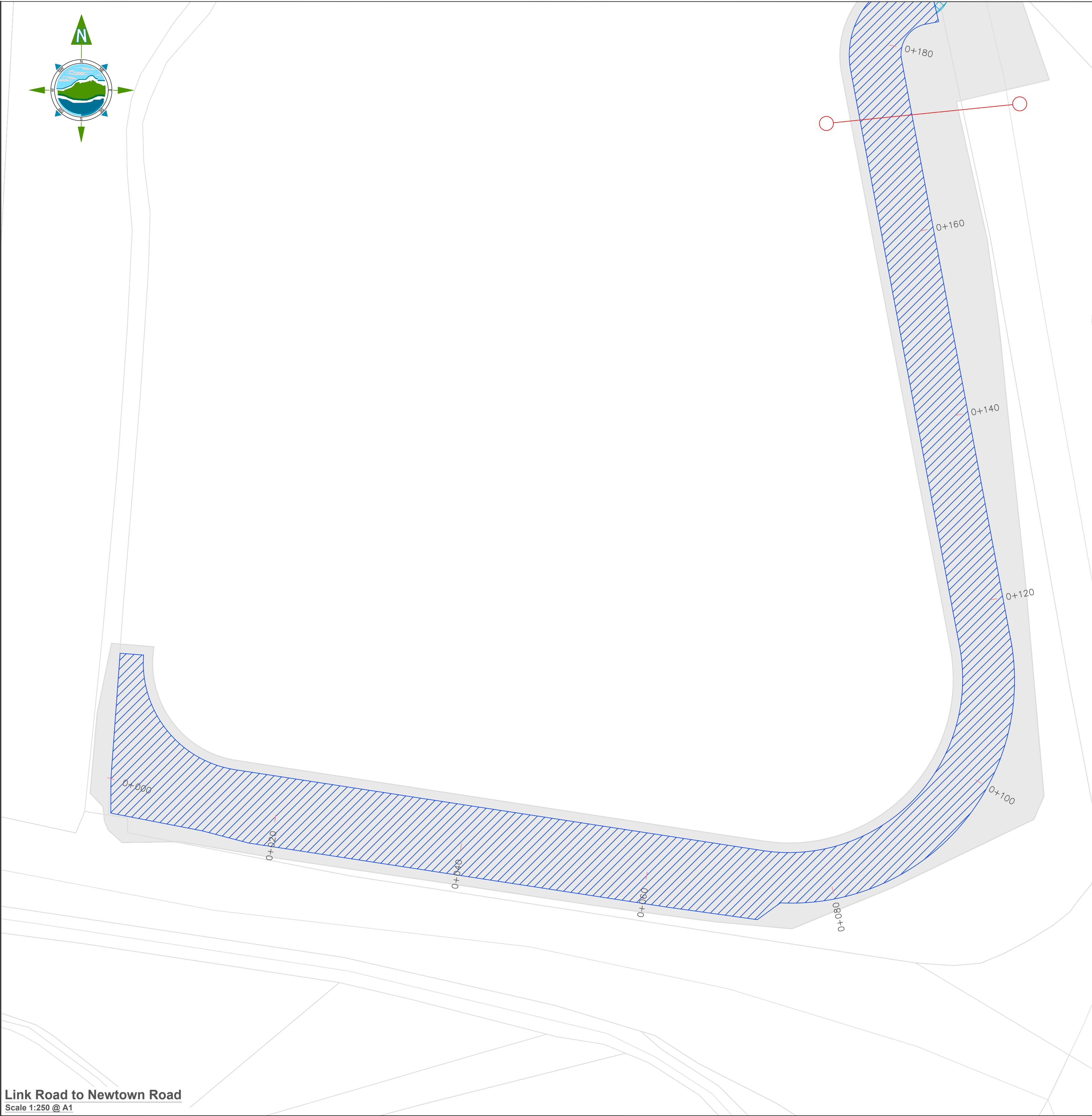
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Drawing No.: **11587-2802**

Revision:

D03



Link Road to Newtown Road
Scale 1:250 @ A1

- LEGEND:
- General Site
 - Pavement to be removed
 - Verge to be removed
 - Excavation of topsoil
 - Timber Post and Tension Mesh Stud Fence to CC-SCD-00321
 - Concrete Retaining Wall

NOTES:
Preferred fence and screening as per landowner consultation

D03	17/07/23	Planning Issue	KP	DMcH	
D02	01/06/23	Planning Issue	KP	DMcH	
D01	28/04/23	Planning Issue	KP	RM	
Rev	Date	Description	By	Chkd.	



Newtown Road
Scale 1:250 @ A1

Client:  **comhairle chontae na mí**
meath county council
Meath County Council

Project: Newtown Road Trim Active Travel

Title: Earthworks Plan and Boundary Treatment

Prepared by:	KP
Checked:	RM
Date:	July 2023
Project Director:	JOF
Drawing Status:	Planning Issue
Scale @ A1:	1:250

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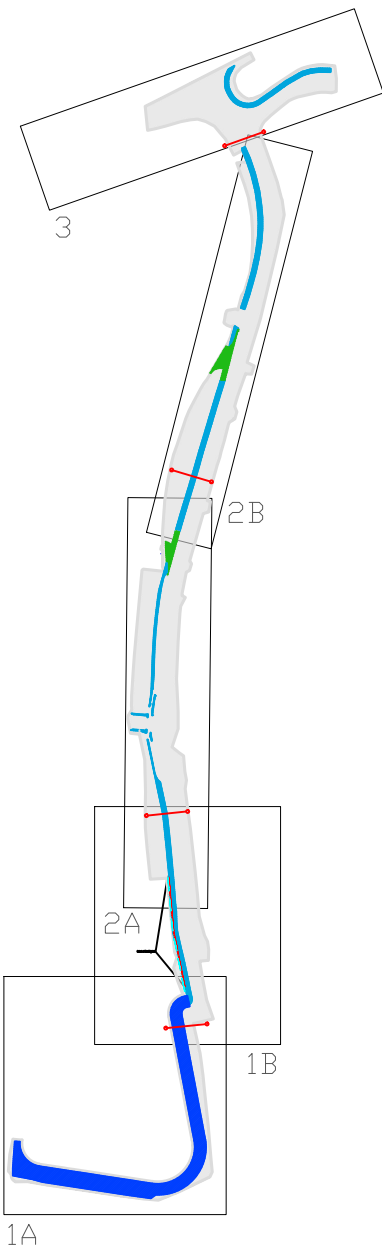
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Drawing No.: **11587-2900**

Revision: **D03**

KEY MAP





Newtown Road
Scale 1:250 @ A1

Newtown Road
Scale 1:250 @ A1

- LEGEND:**
- General Site
 - Pavement to be removed
 - Verge to be removed
 - Excavation of topsoil
 - Timber Post and Tension Mesh Stud Fence to CC-SCD-00321
 - Concrete Retaining Wall

NOTES:
Preferred fence and screening as per landowner consultation

Rev	Date	Description	By	Chkd.
D03	17/07/23	Planning Issue	KP	DMcH
D02	01/06/23	Planning Issue	KP	DMcH
D01	28/04/23	Planning Issue	KP	RM

Client:



comhairle chontae na mí

meath county council

Meath County Council

Project:

Newtown Road Trim Active Travel

Title:

Earthworks Plan and Boundary Treatment

Prepared by:

KP

Checked:

RM

Date:

June 2023

Project Director:

JOF

Drawing Status:

Planning Issue

Scale @ A1:

1:250

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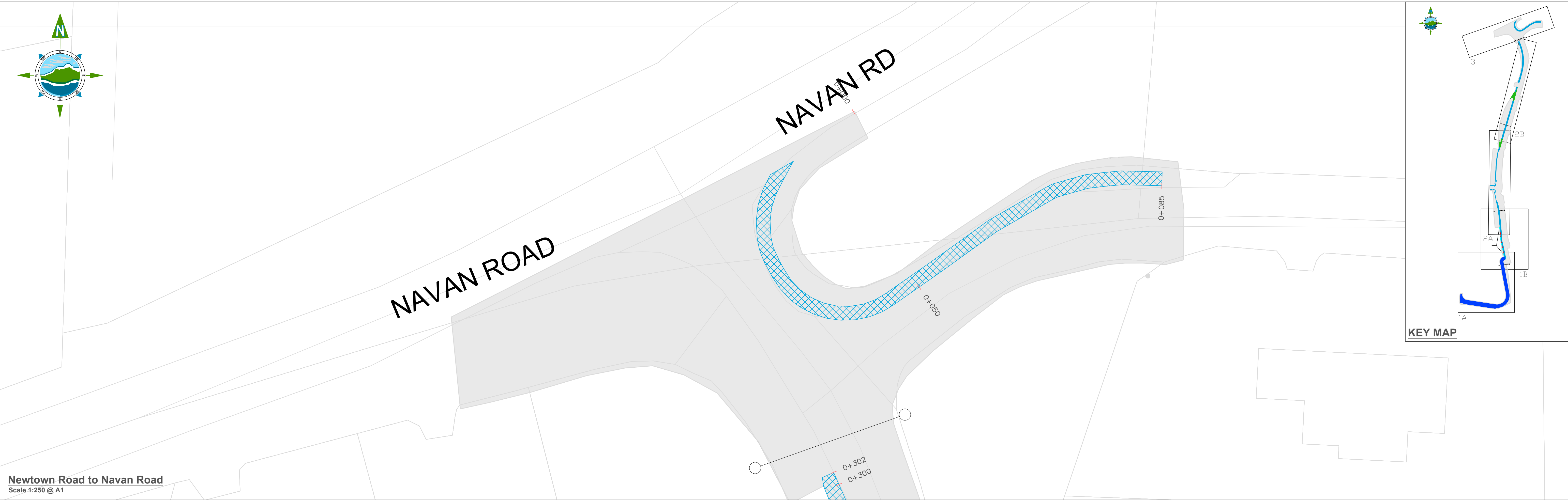
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Drawing No.:

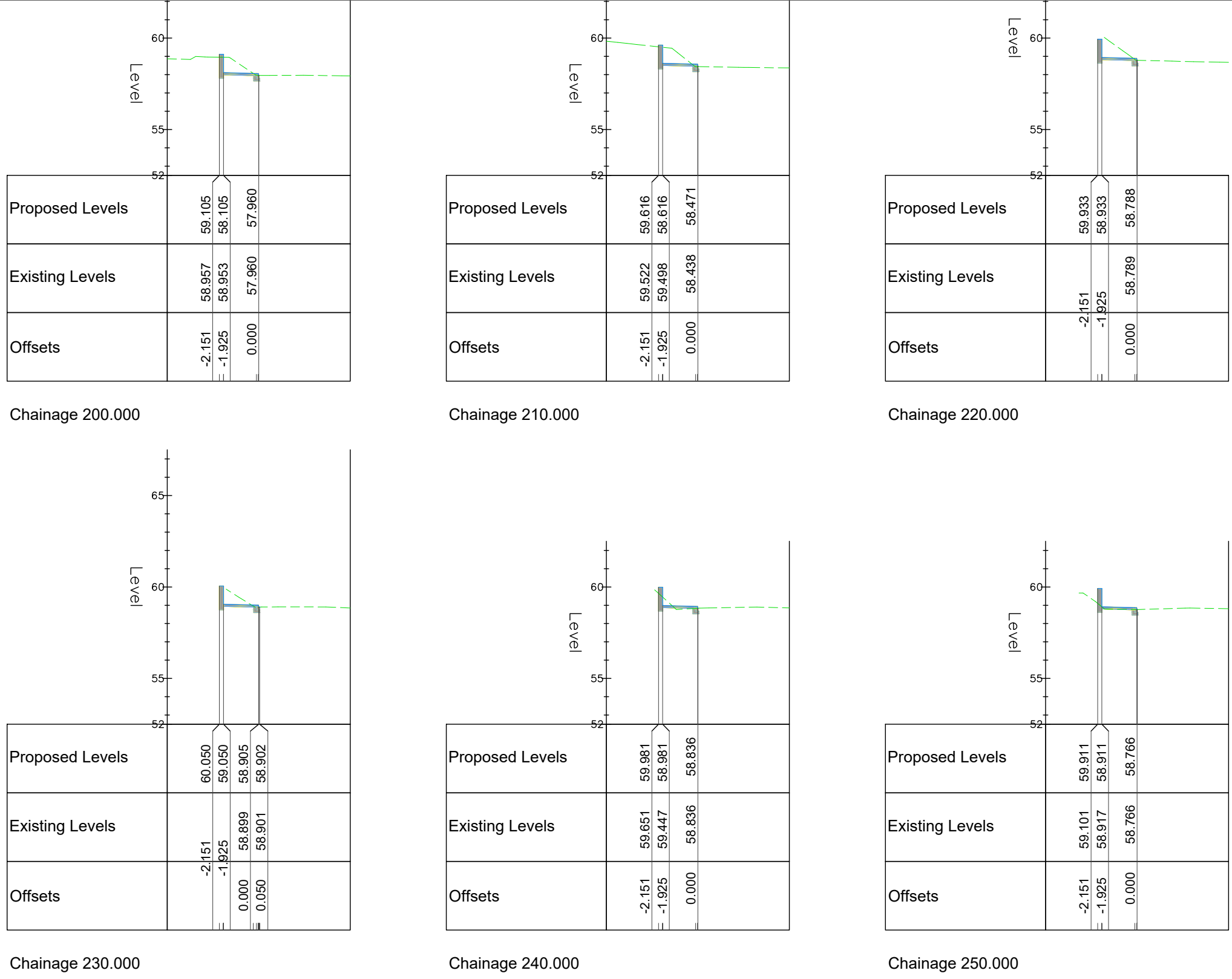
11587-2901

Revision:

D03



Newtown Road to Navan Road
Scale 1:250 @ A1



Retaining Wall Cross-section
Scale 1:250@ A1

- LEGEND:
- General Site
 - Pavement to be removed
 - Verge to be removed
 - Excavation of topsoil
 - Timber Post and Tension Mesh Stud Fence to CC-SCD-00321
 - Concrete Retaining Wall

NOTES:

Preferred fence and screening as per landowner consultation

D03	17/07/23	Planning Issue	KP	DMcH	
D02	01/06/23	Planning Issue	KP	DMcH	
D01	28/04/23	Planning Issue	KP	RM	
Rev	Date	Description	By	Chkd.	

Client:



comhairle chontae na mí
meath county council

Meath County Council

Project:

Newtown Road Trim Active Travel

Title:

Earthworks Plan and Boundary Treatment

Prepared by:

KP

Checked:

RM

Date:

June 2023

Project Director:

JOF

Drawing Status:

Planning Issue

Scale @ A1:

1:250

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Drawing No.:

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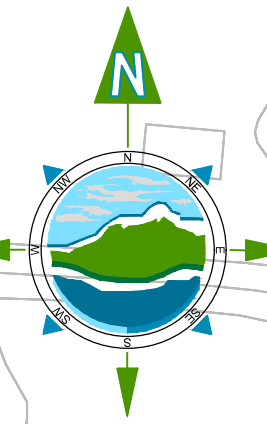
Revision:

D03

Appendix B PROBLEM MAP



General:
2.1.1



2.3.2

2.3.1

2.2.2

2.2.1

*Fearann na mBráithre
Dubha (an dara roinnt)
Blackfriary (2nd Division)*

Scheme Plan
Scale: 1:1500 @ A1

LEGEND

Area Provided by Employer (APE)

D03	13/07/23	Planning Issue	KP	DMcH
D02	01/06/23	Planning Issue	KP	DMcH
D01	30/03/23	Planning Issue	KP	DMcH
Rev	Date	Description	By	Chkd.

Client:



comhairle chontae na mí
meath county council

Meath County Council

Project:

Newtown Road Trim Active Travel

Title:

Scheme Plan

Prepared by:

KP

Checked:

Direct

--	--

ector:

Drawing Status:

Drawing status:	Planned
-----------------	---------

Scale @ A1:
1:1500

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Drawing No.:

11587-2001

revision:

D03)

Appendix C ROAD SAFETY AUDIT FEEDBACK FORM



Road Safety Audit Feedback Form

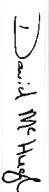
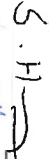

Scheme: Newtown Road Trim Active Travel Scheme

Audit Stage: 1-2

Route No.: L8016 & L8017

Date of Audit: 25/09/2023

To be Completed by Designer				To Be Completed by Audit Team Leader
Paragraph No. in Safety Audit Report	Problem accepted (yes/no)	Recommended Measures Accepted (yes/no)	Alternative Measures (describe). Give reason for not accepting recommended measure	Alternative Measures or reasons accepted by auditors(yes/no)
2.1.1	No	Yes		
2.2.1	Yes	Yes		
2.2.2	Yes	Yes		
2.3.1	Yes	Yes		
2.3.2	Yes	Yes		

Signed:		Designer	David McHugh	Date:	02/11/23
Signed:	S. H. 	Client	STEPHEN HOER	Date:	03/11/23
Signed:		Audit Team Leader	Laura Gaffney	Date:	03/11/23



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