Comhairle Contae Fhine Gall
Fingal County Council

MAKING COMPLEX EASY

CHURCH FIELDS LINK ROAD & CYCLE NETWORK

Report to inform Screening for Appropriate Assessment

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1 INTRODUCTION

1.1 Scope of Report

RPS was commissioned by Fingal County Council (FCC) to prepare a report to inform Screening for Appropriate Assessment (AA) for the proposed Church Fields Link Road and Cycle Network (hereafter referred to as the proposed development) in Mulhuddart, Co. Dublin (see **Appendix A** & **B**).

This report has been prepared to accompany a Part 8 planning submission by FCC, and is an examination of whether, in view of best scientific knowledge and applying the precautionary principle, the proposed development, either individually or in combination with other plans or projects, is likely to have a significant effect on any European site(s). The assessment will be carried out in accordance with the legal context outlined in **Section 1.2.**

1.2 Legislative Context

1.2.1 European Sites

The Council Directive 92/43/EEC on the Conservation of Natural Habitats and of Wild Fauna and Flora, better known as "The Habitats Directive", provides legal protection for habitats and species of European importance. Articles 3 to 9 provide the legislative means to protect habitats and species of Community interest through the establishment and conservation of a European Union-wide network of sites known as Natura 2000 (hereafter referred to as 'European sites'). In the Republic of Ireland, European sites comprise:

- Special Areas of Conservation (SACs) designated for habitats, plants, and non-bird species, under the Habitats Directive (92/43/EEC);
- Special Protection Areas (SPAs) designated for bird species and their habitats, under the Birds Directive (79/409/ECC as codified by Directive 2009/147/EC); and
- 'Candidate' sites including 'cSACs'. The process of designating cSACs as SACs is ongoing in Ireland. The term SAC is used throughout this report for both SACs and cSACs, given they are subject to equal protection.

Each European site has assigned Conservations Objectives (CO) and a list of Qualifying Interests (QI's) and/or Species of Conservation Interest (SCI) (**Table 4-2**). The Conservation Objective (CO) concept appears in the eighth recital of Directive 92/43/EEC which reads: "*whereas it is appropriate, in each area designated, to implement the necessary measures having regard to the conservation objectives pursued*". Article 1 then explains that "*conservation means a series of measures required to maintain or restore the natural habitats and the populations of species of wild fauna and flora at a favourable status*".

NPWS publish COs for European sites on their website. NPWS advise in the general introductory notes of their site-specific Conservation Objective (SSCO) series publications, that an appropriate assessment based on their "*published conservation objectives will remain valid even if the conservation objective targets are subsequently updated, providing they were the most recent objectives available when the assessment was carried out*". NPWS advise that to assist in that regard, it is essential that the date and version are included when objectives are cited.

1.2.2 Appropriate Assessment

Articles 6(3) and 6(4) of the Habitats Directive set out the decision-making tests for plans and projects likely to have a significant effect on or to adversely affect the integrity of European sites (Annex 1.1). Article 6(3) establishes the requirement for Appropriate Assessment (AA):

"*Any plan or project not directly connected with or necessary to the management of the [European] site but likely to have a significant effect thereon, either individually or in combination with other plans or projects, shall be subjected to appropriate assessment of its implications for the site in view of the site's conservation objectives. In light of the conclusions of the assessment of the implications for the site and subject to the*

provisions of paragraph 4, the competent national authorities shall agree to the plan or project only after having ascertained that it will not adversely affect the integrity of the site concerned and, if appropriate, after having obtained the opinion of the general public."

Article 6(4) states:

"*If, in spite of a negative assessment of the implications for the [European] site and in the absence of alternative solutions, a plan or project must nevertheless be carried out for imperative reasons of overriding public interest, including those of a social or economic nature, Member States shall take all compensatory measures necessary to ensure that the overall coherence of Natura 2000 is protected. It shall inform the Commission of the compensatory measures adopted.*"

1.3 Stages of Appropriate Assessment

Stage 1: Screening / Test of Significance

This process identifies whether the proposed development is directly connected to or necessary for the management of a European site(s) and identifies whether the development is likely to have significant impacts upon a European site(s) either alone or in combination with other projects or plans.

The output from this stage is a determination for each European site(s) of not significant, significant, potentially significant, or uncertain effects. The latter three determinations will cause that site to be brought forward to Stage 2.

Stage 2: Appropriate Assessment

This stage considers the impact of the proposed development on the integrity of a European site(s), either alone or in combination with other projects or plans, with respect to: (i) the site's conservation objectives; and (ii) the site's structure, function and its overall integrity. Additionally, where there are adverse impacts, an assessment of the potential mitigation of those impacts is undertaken.

The output from this stage is a Natura Impact Statement (NIS). This document must include sufficient information for the competent authority to carry out the appropriate assessment. If the assessment is negative, i.e. adverse effects on the integrity of a site cannot be excluded, then the process must consider alternatives (Stage 3) or proceed to Stage 4.

Stage 3: Assessment of Alternatives

This process examines alternative ways of achieving the objectives of the project that avoid adverse impacts on the integrity of the European site. This assessment may be carried out concurrently with Stage 2 in order to find the most appropriate solution. If no alternatives exist or all alternatives would result in negative impacts to the integrity of the European sites, then the process either moves to Stage 4 or the project is abandoned.

Stage 4: Assessment where Adverse Impacts Remain

This stage includes the identification of compensatory measures where, in the context of Imperative Reasons of Overriding Public Interest (IROPI), it is deemed that the project or plan should proceed.

2 PROPOSED DEVELOPMENT

The proposed development comprises a new link road from an existing roundabout on Damastown Avenue on the northern end of the Church Fields study area connecting to the established Wellview Avenue to service the development lands in the north adjacent to Damastown Avenue which it is intended to be developed (at a later date) in accordance with the Church Field Land Management Plan (CFLMP). It is also proposed to upgrade the existing Wellview Avenue as far as, and including, Ladyswell Road Roundabout in accordance with the Church Fields Land Management Plan(CFLMP). This is in keeping with a number of objectives contained within the current Fingal Development Plan 2017-2023 (including the recently adopted variation number 1) for Mulhuddart and Tyrellstown, whereby sustainable connectivity between communities is provided. A new combined cycle-track and footway along Damastown Avenue and through the future parkland area parallel to but separate from Church Road is also proposed. This also includes the upgrade and provision of vulnerable road user (VRU) facilities at various locations to tie in with other existing facilities in the area (**Appendix A**).

2.1 Project Description

The proposed development which is illustrated in **Appendix A** consists of a number of elements specifically;

- New link road section – two lanes, approximately 300m in length, from an existing roundabout on Damastown Avenue connecting to Wellview Avenue, including 2m cycle tracks/lanes, 3m footpaths with appropriately located zebra crossings, planted grass medians and verges, and a new roundabout junction to access the future Church Fields development lands;

- Upgrade the existing two lane Wellview Avenue road section from the above new section to as far as and including Ladyswell Road Roundabout approximately 400m in length, and to include all of the same facilities as above;

- A new combined 4m two-way cycle track and adjacent 2m / 3m footpath approximately 600m in length along the southern side of Damastown Avenue adjacent to existing grassed verge running along the carriageway kerb line, and through the future parkland area adjacent to Church Road, approximately 700m in length, and following the alignment of existing footpath through the existing parkland areas;

- It is proposed to retain the existing adjacent westbound on-road cycle lane for continuity with other sections, likewise for the existing eastbound on-road cycle lane;

- The proposed off-road footpath & cycle-track in this case are at the same level and segregated by different surface finishes and road marking delineation;

- The section provided through the future parkland parallel to Church Road, approximately 700m in length, will follow an alignment to ensure the existing trees are retained and not impacted on by the new track;

- This also includes the upgrade and provision of vulnerable road user (VRU) facilities through and around the Church Road /Damastown Avenue Roundabout to tie in with other existing facilities in the area;

- The upgrade of existing /poorly constructed cycleways on the roundabout to tie into existing cycleways on the R121 and R121 Cruiserath Road. On the south-western and northern sections around the roundabout will be a 4m two-way cycle track, However, owing to space limitations on the southern and south-eastern sections, these small sections of cycle lanes will be 2m one-way cycle lanes, therefore cyclists will be required to make use of dedicated crossing points to venture around the roundabout;

- An upgrade to the southern side of the Powerstown Road footpath to include a 4m two-way cycle track to provide a link from the above roundabout to as far as Powerstown Educate Together National School. This is the only section of the entire scheme that will require land-take, albeit narrow, which will be by agreement with the Department of Education.

- The existing Pelican crossing on the eastern approach of Damastown Avenue to the Church Road /Damastown Avenue Roundabout is to be upgraded to a Toucan crossing, and new Toucan crossings are proposed on each of the other arms of this roundabout also;

- New Toucan crossings are proposed on the eastern and western side of the Damastown / Church Field Link Road roundabout at the top of the new link road section;

- New replacement street lighting is proposed on the new and upgraded link road sections, while along the new Damastown Avenue cycle track, the existing street lighting is to be relocated closer to the road, with additional lighting provided on the back to light the new cycle track and footpath. There is minimal existing lighting in the parkland areas along the existing footpath, which is proposed to be replaced with more frequent pathway lighting.

- The existing road markings and signage would be refreshed, and new signage and road markings installed as required.

Taking into consideration the findings of separate multi-criteria analysis prepared by RPS (2019a), and feedback and preferences of the client, FCC, the typical road cross section arrangement is for a two-way carriageway that is segregated by a planted grassed median, with cycle tracks and footpaths behind the grassed verges, which themselves are segregated from each other by a 75mm upstand kerb – see **Figure 2-1.**

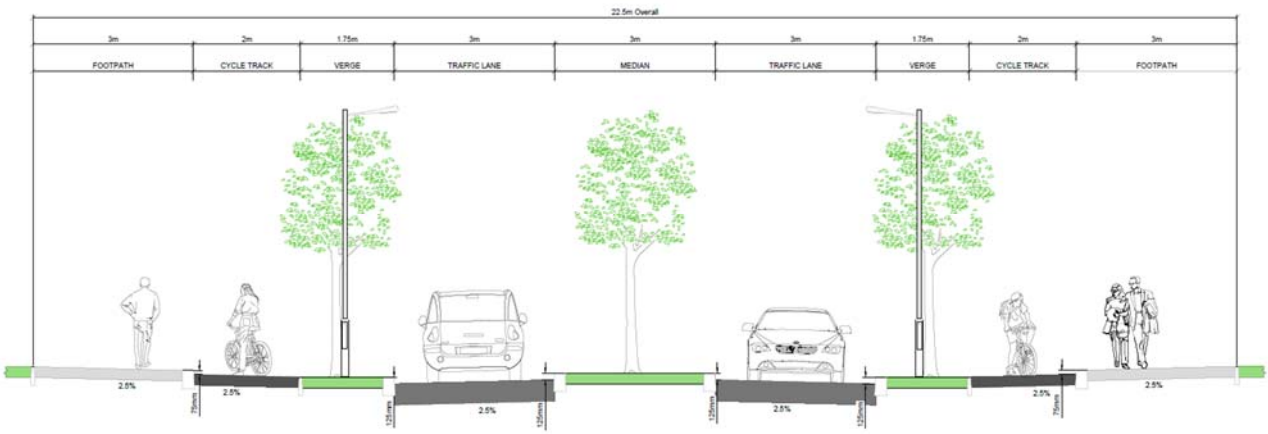

Figure 2-1: Preferred Option – Typical arrangement.

With respect to the surface water drainage at this stage of the project, the design has focussed on reinforcing the existing road drainage. All new drainage incorporated as part of the detailed solution shall follow the SuDS train. This will include bio-retention features under the tree pits in the grassed verges, additional percolation pipes in the verge also, as well as attenuated discharge via petrol interceptor into local watercourses.

The proposed development will incorporate a surface water management system which has been designed in accordance with the Greater Dublin Strategic Drainage Study (GDSDS, 2005) approach using Sustainable Drainage Systems (SuDS) techniques. This system, which is illustrated in Drainage Drawings in **Appendix B,** recognises seven discrete drainage network areas covering the entirety of the proposed development.

With the existing road sections, the design will reinforce the management of the surface waters to ensure no impact on receiving waters. The key elements of the design, which are applicable across six of the proposed drainage networks identified rely on a number of overlapping drainage solutions.

On the new and upgraded link road sections, where new central carrier drains are proposed, the following are proposed:

- Tree Pit drainage – For each tree, side-inlet gullies will be the first capture of carriageway surface water through stone lined pits that will focus water into the topsoil tree pit to discharge downwards through the soil into a filter drain lying beneath. The filter drain will direct capture water to the central carrier drains;

- Additional Verge Storage / Percolation – Downstream of the tree pit gullies, additional side-inlet gullies will be the second capture of carriageway surface water, which are linked into closed perforated pipes extending approximately 10m in the grassed verges, where additional surface water will be stored and can percolated down through the filter drain material into the filter drain lying beneath, which captures the water to the central carrier drains as above.

- By-pass Gullies – Further downstream of the two previous systems, a standard by-pass gully will take any remaining carriageway surface water that has not been taken into the two previous systems and pipe this into the verge filter drain below, and similarly into the central carrier drains.

- Footpath & Cycle Track drainage – the surface water from the footpaths and off-road cycle tracks will flow into the dished grassed verges where it can percolate through the filter material into the filter drain beneath, which captures the water to the central carrier drains as above

Percolation alone will not adequately deal with surface water, particularly given the fact that much of the surrounding lands is built upon or destined to be built upon as part of the Church Fields Land Development Plan. The design includes for the enhancement of the existing drainage network and include standard features such as bypass separators, retention pipes and series of three attenuation ponds to deal with surface water.

Each of the seven networks identified (**Appendix B**) have differing conditions and the discharge of the attenuated surface waters are detailed below.

Area 1 – All flows will follow through the above drainage steps, and ultimately flow through a proposed petrol interceptor at the Damastown Road / Ladyswell Road roundabout. This will tie-in to the existing road drainage and likely discharges into the Powerstown_09 further west along Damastown Road.

Area 2 – Similar to Area 1 drainage solution, the next section will rely on the same drainage steps, but will be directed to Gaywood river, which is largely modified through a housing estate before entering the Powerstown_09 to the west of Tyrellstown.

Area 3 – This is the longest stretch of drainage network identified and will ultimately discharge into the Macetown South, a tributary of the Powerstown_09 river, which itself flows into the Tolka River. The new link road section will follow the same principles as Area 1 and 2, while the drainage of the new cycle track along Damastown Avenue will be through a filter drain adjacent to the track for the most part, with the drainage of a section of the parklands cycle track to the north connected to this filter drain via a filter drain also. Prior to any discharge, surface water will be directed by the proposed road drainage to flow into a proposed new section of pipeline that will run alongside the existing historical road (which follows the line of the future main development western street footpath) before flowing into a proposed series of three attenuation ponds, that are to be located to the west of the wooded section of the Macetown_South. The proposed attenuation ponds will include a bypass separator treatment at its inlet, and a hydro-break or similar at its outfall. These attenuation ponds will ultimately form part of the Church Fields Land Management Plan and will complement the vegetated swale that is proposed for the urban linear park.

Due to the presence of a surface water drainage pipe and manhole, which drains a recently built housing development at Avondale Place conflicting with the southernmost attenuation pond no. 3, there will be a requirement to redirect this drainage line and manhole through a proposed new section of pipeline and manholes to divert it around pond no. 3 and tie back in to a new combined headwall with the pond discharge outlet at the location of the existing headwall.

Area 4 – The drainage solution for the proposed widened cycle-track and footpath in the park, will comprise a filter drain adjacent to the cycle track where it with flows directed in a southerly direction. A temporary construction tie-in will be provided to tie-in to an existing ditch until such time that the future Linear Park swale is constructed. The surface water from this section will attenuate and infiltrate in this vegetated ditch. The plan is that this Area 4 drainage will be incorporated into the future Linear Park swale when it is constructed.

Area 5 – This area in the parklands will comprise a filter drain where drainage from the proposed cycle-track will be directed into it. The filter drain on for this section will tie-in to the existing road carrier drainage on Church Road just south of the park entrance. The discharge location of this existing road drainage is

unknown at present but owing to ground conditions likely flows in a southerly direction to the Powerstown _09 or Tolka River.

Area 6 – The last area in the parkland will comprise discrete works around the Damastown Avenue / Church Road / Powerstown Road roundabout. On the southwest corner of this roundabout, the proposed cycle track drainage forms part of Area 3. On the north-western and northern sections, the drainage of these small sections of additional two-way cycle track proposed is to crossfall out to the existing roadside gullies and into the existing drainage network on the roundabout. On the south-eastern and southern sections, surface water from the small one-way additional cycle track is allowed to percolate into the retained grassy verges but also to flow to existing road gullies on the carriageway if necessary. Records seem to indicate that this existing roundabout road drainage is piped along Damastown Avenue to the west where it seems to discharge unattenuated or untreated to the Powerstown_09. Owing to the limited nature of the discrete works being carried out around the outside of the roundabout, the drainage solutions are considered to have a negligible impact on the existing drainage and outfall.

Area 7 – The final drainage area for the cycle track link along Powerstown Road from the roundabout to the national school will comprise a filter drain at the back of the cycle track that will be connected via a carrier pipe across the Powerstown Road to the existing drainage network on Curragh Hall Crescent in the housing estate on the opposite side of this road. This existing network, which captures all of the surface water drainage for Tyrrellstown, flows to the west, where the outfall is unknown, but likely to be the Powerstown_09 watercourse.

2.1.1 Surface Water

For the purpose of this report, unless otherwise stated, the surface water bodies are referred to their EPA names, as per the EPA River Network dataset (2012)[1].

2.1.1.1 Existing

The existing surface water drainage within the proposed development site consists of urban fabric and run-off from grassland into two tributary watercourses of the Powerstown_09. These watercourses flow westwards of the proposed development into the Powerstown_09, where its flows along the south boundary of the Church Fields development lands into the Tolka River and then in a south easterly direction into Dublin Bay.

There is some existing foul water management associated with developed land along either side of the Wellview Avenue, where already built.

2.1.1.2 Proposed Environment

As described in **Section 2.1**, the proposed development will incorporate a surface water management system which has been designed in accordance with the Greater Dublin Strategic Drainage Study (GDSDS, 2005) approach using Sustainable Drainage Systems (SuDS) techniques. The proposed drainage network has identified 7 areas, with all ultimately discharging to the Tolka River via a number of smaller tributary watercourses.

This system, detailed in **Appendix B,** will include:

- Bio-retention tree pits
- Surface water drainage piping and gullies within the hardstanding;
- Class 1 bypass oil interceptor;
- Attenuation ponds;

[1] Available at https://gis.epa.ie/geonetwork/srv/eng/catalog.search#/metadata/c4043e19-38ec-4120-a588-8cd01ac94a9c. Accessed November 2019, reconfirmed January 2020.

- Flow control device (hydro-break) to greenfield rates;
- Precast outfall to unnamed ditch at the north west of the proposed development site. The installation of the outfall will be completed without the need for instream works or pouring of concrete within 5 m of the watercourse; and
- Filter drains, atop filtration pipes to be constructed in non-road sections.

In addition, it is proposed that a tie-in to the foul drainage network will be provided along the as yet unbuilt section of the new Church Fields Link Road to accommodate future developments arising out of the Church Fields Land Management Plan. The proposed foul sewer pipeline will not serve the proposed road and cycle network and would require the consent of Irish Water.

2.1.2 Construction Programme/Phasing

The proposed development can be further characterised by a number of phases, although the duration for each is not confirmed. The phases include the following:

2.1.2.1 Advance works

- Preparation of site compound – likely on existing made ground on proposed extension not Wellview Avenue at northern end of proposed development;
- Fencing of working area;
- Changes to existing overhead utilities e.g. existing street lighting, by third party contractor; and
- Traffic management measures on live roads as necessary.

2.1.2.2 Construction

- Bulk earthworks as necessary – excavation of soil berm to facilitate widened footpath/cycle-lane;
- Removal/Disposal of Construction and Demolition (C&D) waste from removed/remodelled roads etc;
- Installation of new drainage (and tie-in to existing drainage as necessary);
- Installation of other utilities or provision of ducting for future installation;
- Installation of culvert connecting the future swale on either side of the proposed Church Fields Linear Biodiversity park connection.
- Installation of retaining walls, if required;
- Construction of road and cycle running surfaces/roundabouts;
- Upgrade to existing Pelican crossing and construction of new pedestrian/shared (Toucan) crossing points;
- Marking of road surfaces and installation of signage, etc.;
- Landscaping and reinstatement of vegetation (owing to the seasonality, this may continue into the operational phase of the proposed development until such time that it becomes established; and
- Removal of works compounds.

2.1.2.3 Operational

- At this stage, it is unknown if the proposed development will be brought into operation as built or as phased elements for take-over and management by the Local Authority.

- Elements of the construction that might overlap with the earlier stages of the operation of the proposed development (depending on the seasonality) include boundary landscaping treatments as necessary.

2.1.3 Habitat Removal and Alteration

Sections of the proposed development are located within an area that is currently developed as residential and commercial developments, as well as ongoing adjacent housing development. The remainder of the land is characterised by made ground (roads and footpaths), rank waste ground and amenity playing fields. There will be no significant alteration of semi-natural habitats associated with the proposed development.

There will be loss of existing grassland and footpath to accommodate widened cycle lane/footpath. There will also be loss of narrow strips of grassland to allow for the creation of filter drains.

The removal of juvenile landscaping trees on roadside verges along Wellview Avenue will be required to facilitate the proposed widened foot and cycle paths.

As the development of the cycle network continues from Damastown Avenue to the Church Road intersection, the excavation of soil berm to facilitate the widened footpath/cycle-lane will be carried out and will result in the loss of patches of scrub trees and managed grassland mosaic along the southern side of Damastown Road.

There will also be some alteration of amenity grassland along the eastern boundary of the site to construct a filter drain.

To facilitate the extension of the new cycle path and connection with an upgraded path alongside the amenity grassland parallel to Church Road, there is a need to remove a narrow area of scrub vegetation.

All of the mature trees along the road will be retained, as it is proposed that the upgraded cycle path extend into the amenity grassland. However, it is necessary to deviate the existing path in the direction (1.8m) of the mature wooded vegetation between chainage 1+670 to 1+720 to accommodate the installation of the pathways alongside existing services.

3 METHODOLOGY

3.1 Appropriate Assessment Guidance

EU and national guidance exist in relation to Member States' fulfilling their requirements under the EU Habitats Directive, with particular reference to Article 6(3) and 6(4) of that Directive. The methodology followed in relation to this AA has had regard to the following guidance:

- Appropriate Assessment of Plans and Projects in Ireland: Guidance for Planning Authorities. Department of Environment, Heritage and Local Government (DoEHLG, 2010);
- Communication from the Commission on the Precautionary Principle (EC, 2000);
- Managing Natura 2000 Sites: the provisions of Article 6 of the 'Habitats' Directive 92/43/EEC (known as MN2000), Office for Official Publications of the European Communities, Luxembourg (EC, 2018);
- Assessment of plans and projects significantly affecting Natura 2000 sites: Methodological guidance on the provisions of Articles 6(3) and (4) of the Habitats Directive 92/43/EEC. Office for Official Publications of the European Communities, Brussels (EC, 2001);
- Guidance document on Article 6(4) of the 'Habitats Directive' 92/43/EEC – Clarification of the concepts of: alternative solutions, imperative reasons of overriding public interest, compensatory measures, overall coherence, opinion of the Commission (EC, 2007);
- Nature and biodiversity cases: Ruling of the European Court of Justice (EC, 2006);
- Interpretation Manual of European Union Habitats. Version EUR 28. European Commission (EC, 2013); and
- Article 6 of the Habitats Directive: Rulings of the European Court of Justice (EC, 2014).

There have been significant changes to AA practices since both the EC (2001) and the DoEHLG guidance (2010), arising from practices and rulings in European, UK and Irish courts. These changes have been addressed in the preparation of this report.

3.2 Ecological Data

3.2.1 Desk Study

A desk study was completed to assess the potential for all QIs and SCIs of European sites to occur, given their ecological requirements identified by Balmer *et al.* (2013) for SCIs, and the National Parks and Wildlife Service (NPWS) for QIs (NPWS, 2019a, b, c).

SCI Birds and mobile QI species can travel many kilometres from their core areas, and desktop surveys assessed the potential presence of such species beyond the European sites for which they are QIs/SCIs. Desktop studies had particular regard for the following sources:

- Tabulated lists for all European sites in Ireland of SCIs and QIs, obtained through a data request to the NPWS;
- Information on ranges of mobile QI populations in Volume 1 of NPWS' Status of EU Protected Habitats and Species in Ireland (NPWS, 2019a), and associated digital shapefiles obtained from the NPWS Research Branch;
- Information on ranges of mobile SCIs bird populations from Bird Atlas 2007–11 (Balmer *et al*., 2013), excluding birds of prey whose ranges were determined with reference to Hardey *et al*. (2013);

- Mapping of European site boundaries and Conservation Objectives for relevant sites in County Dublin and beyond, as relevant, available online from the NPWS;
- Distribution records for QI and SCI species of European sites held online by the National Biodiversity Data Centre (NBDC)[2];
- Details of QIs/SCIs of European sites within the National Biodiversity Action Plan 2017-2021 (DoCHG, 2017);
- Data including surface and ground water quality status, and river catchment boundaries available from the online database of the Environmental Protection Agency (EPA)[3];
- Information on groundwater aquifers, recharge, and vulnerability available from the online database of Geological Survey Ireland (GSI)[4];
- National and regional surveys of semi-natural habitats, including grasslands (O'Neill *et al.,* 2013), saltmarsh (McCorry and Ryle, 2009; Devaney and Perrin, 2015), and woodland (Perrin *et al*., 2008);
- Boundaries for catchments with confirmed or potential freshwater pearl mussel (FWPM) *Margaritifera margaritifera* populations in GIS format available online from the NPWS;

3.2.2 Field Study

This report was informed by a habitat and protected species survey of the proposed development site on the 25th of June 2019 and the 8th of October by an RPS ecologist. A further survey was undertaken in January 2020 to take account of design changes in respect of the siting of three (3) proposed attenuation ponds.The surveys assessed the potential for all QIs/SCIs of European sites and third schedule[5] invasive species to occur, given their ecological requirements identified by Balmer *et al*. (2013) for birds, and the NBDC and NPWS for all other species/habitats (NPWS, 2013 e, f).

The survey included checks of suitable habitats for all highly mobile QI/SCI species potentially occurring. For instance, the adjacent Tolka watercourses were checked for the potential of common kingfisher *Alcedo atthis* nest sites, and potential breeding or resting sites of otter *Lutra lutra*. Numerous non-breeding SCI bird species travel many kilometres from their core areas, and surveys also assessed potential presence of roosting or feeding sites of such species. Species survey had regard for relevant guidance (e.g. NRA, 2009). The potential of any buildings, vegetation, or features within the Zone of Influence (ZoI) (see **Section 3.3.1**) of the proposed development to offer nesting or roosting habitat to SCI bird populations, was assessed.

3.2.3 Limitations

The receiving environment (i.e. baseline condition) may naturally vary through seasons and between years (NRA, 2008). This limitation to the assessment is acknowledged and incorporated into the assessment.

The field survey was completed across three separate visits. The first survey was completed on the 25th of June 2019. As a result of later project modifications, a second site visit was carried out on the 8th of October 2019. The second survey was sub-optimal for coinciding with habitats and plant growing season but was deemed suitable for the purposes of the Appropriate Assessment. Similarly the site visits to the western part

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[2] Assessing records up to 10 years old (from date of search), for an area of 5 km from the proposed development site. Available online at: https://maps.biodiversityireland.ie/Map, Accessed January 2020.

[3] Available online at https://gis.epa.ie/EPAMaps/. Accessed January 2020.

[4] Available online at https://dcenr.maps.arcgis.com/apps/MapSeries/index.html?appid=a30af518e87a4c0ab2fbde2aaac3c228. Accessed January 2020.

[5] Invasive species scheduled to the EC (Birds and Natural Habitats) Regulations 2011-2015 ('the Regulations'). Under the Regulations, it is an offence to plant, disperse, allow or cause to disperse, spread or otherwise cause to grow in any place any species scheduled to the Regulations without a licence.

of the study area in January 2020 was outside the ideal botanical season, but appropriate for badger, otter and assessment of potential bat roost features. This limitation to the assessment is acknowledged and incorporated into the assessment.

Access limitations were faced during the assessment of ditch features within the ZoI of the proposed development. In this case a precautionary approach was adopted, which relied on observations from the nearest locations from which access could be obtained, coupled with remote information (e.g. aerial photography) and collating any existing information that might be available. This limitation to the assessment is acknowledged and incorporated into the assessment.

Sources of desk study information are neither exhaustive nor necessarily easily available, and every effort was made to obtain ecological data in the public domain to inform the description of the receiving environment and its assessment. It is possible that other information, not in the public domain and known only to private individuals, exists. This limitation to the assessment is acknowledged and incorporated into the assessment.

3.3 Relevant European Sites

The identification of relevant European sites to be included in this report was based on the identification of the ZoI of the proposed development, a source-pathway-receptor model of effects, and the likely significance of any identified effects.

3.3.1 Zone of Influence

The proximity of the proposed development to European sites, and more importantly QIs/SCIs of the European sites, is of importance when identifying potentially likely significant effects. During the initial scoping of this report, a 15 km ZoI was applied for impact assessment. A conservative approach has been used, which minimises the risk of overlooking distant or obscure effect pathways, while also avoiding reliance on buffer zones (e.g. 15 km), within which all European sites should be considered. This approach assesses the complete list of all QIs/SCIs of European sites in Ireland (i.e. potential receptors), instead of listing European sites within buffer zones. This follows Irish departmental guidance on AA:

"*For projects, the distance could be much less than 15 km, and in some cases less than 100m, but this must be evaluated on a case-by-case basis with reference to the nature, size and location of the project, and the sensitivities of the ecological receptors, and the potential for in combination effects*" (DoEHLG, 2010; p.32, para 1).

Following the guidance set out by the NRA (2009), the proposed development has been evaluated based on an identified ZoI with regard to the potential impact pathways to ecological feature (e.g. mobile and static). The ZoI of the proposed development on mobile species (e.g. birds, mammals, and fish), and static species and habitats (e.g. saltmarshes, woodlands, and flora) is considered differently. Mobile species have 'range' outside of the European site in which they are QI/SCI. The range of mobile QI/SCI species varies considerably, from several metres (e.g. in the case of whorl snails *Vertigo* spp.), to hundreds of kilometres (in the case of migratory wetland birds). Whilst static species and habitats are generally considered to have ZoI's within close proximity of the proposed development, they can be significantly affected at considerable distances from an effect source; for example, where an aquatic QI habitat or plant is located many kilometres downstream from a pollution source.

Hydrological linkages between the proposed development and European site (and their QIs/SCIs) can occur over significant distances; however, any effect will be site-specific depending on the receiving water environment and nature of the potential impact. As a precautionary measure, a reasonable worst-case ZoI for water pollution from the proposed development site is considered to be the surface water catchment. In this report, the surface water catchment is defined at the scale of Catchment Management Unit (CMU), as adopted in the River Basin Management Plan (RBMP) for Ireland 2018-2021 (DoHPLG, 2018).

3.3.2 Source-Pathway-Receptor Model

The likely effects of the proposed development on any European site from the ZOI has been assessed using a source-pathway-receptor model, where:

- A ‘source’ is defined as the individual element of the proposed works that has the potential to impact on a European site, its qualifying features and its conservation objectives;
- A ‘pathway’ is defined as the means or route by which a source can affect the ecological receptor; and
- A ‘receptor’ is defined as the Special Conservation Interests (SCI) of SPAs or Qualifying Interests (QI) of SACs for which conservation objectives have been set for the European site(s) being screened.

A source-pathway-receptor model is a standard tool used in environmental assessment. In order for an effect to be likely, all three elements of this mechanism must be in place. The absence or removal of one of the elements of the mechanism results in no likelihood for the effect to occur. The source-pathway-receptor model was used to identify a list of European sites, and their QIs/SCIs, with potentially links to European site. These are termed as ‘relevant’ European sites/QIs/SCIs throughout this report.

3.3.3 Likely Significant Effect

The threshold for a Likely Significant Effect (LSE) is treated in the screening exercise as being above a de minimis level[6] . The opinion of the Advocate General in CJEU case C-258/11 outlines:

“*the requirement that the effect in question be ‘significant’ exists in order to lay down a de minimis threshold. Plans or projects that have no appreciable effect on a European site are thereby excluded. If all plans or projects capable of having any effect whatsoever on the site were to be caught by Article 6(3), activities on or near the site would risk being impossible by reason of legislative overkill.*”

In this report, therefore, ‘relevant’ European sites are those within the potential ZoI of activities associated with the construction and operation of the proposed development, where LSE pathways to European sites were identified through the source-pathway-receptor model.

3.4 Screening Process

The Screening for Appropriate Assessment will incorporate the following steps:

- Determining whether a project or plan is directly connected with or necessary to the conservation management of any European sites;
- Describing the project or plan;
- Identifying the European sites potentially affected by the project or plan;
- Identifying and describing any potential effects of the project or plan on European sites, alone, in-combination and cumulatively with other plans/projects; and
- Assessing the likelihood of significant effects on European sites.

[6] *Sweetman v. An Bord Pleanála* (Court of Justice of the EU, case C-285/11). A de minimis effect is a level of risk that is too small to be concerned with when considering ecological requirements of an Annex I habitat or a population of Annex II species present on a European site necessary to ensure their favourable conservation condition. If low level effects on habitats or individuals of species are judged to be in this order of magnitude and that judgment has been made in the absence of reasonable scientific doubt, then those effects are not considered to be likely significant effects.

4 RECEIVING ENVIRONMENT

4.1 Overview of the Proposed Development

The development lands associated with the proposed development are characterised by developed lands centred on the Wellview and Parlickstown residential estates and the Enterprise Centre off Lady's Well Road in the southern half of the study area.

The northern half of the site is characterised by the undeveloped lands associated with the Church Fields Development lands. The land in this area is dominated by bare or disturbed ground associated with site compounds and previously halted works, scrub and rank grassland, much of it made ground associated with earlier preparatory works in the North western half of the study area. Large open grassed amenity areas with peripheral walkways are located along the eastern part of the site, parallel to Church Road.

Part of the undeveloped lands are intersected by a drain, running in an East-West direction which extends from approximately 500m before connecting with the Pinkeen Stream (EPA name Powerstown_09). The Pinkeen stream joins the Tolka River downstream of the proposed development.

None of the habitats within the study area are ascribable to Annex I habitats.

4.2 Surface Water

A search of the EPA Unified GIS Application[7] was conducted for waterbodies located within the proposed development and their water quality for 2010-2015. The proposed development will be undertaken in lands drained by two river water bodies. **Table 4-1** lists the WFD river water bodies within the vicinity of the proposed development and their water quality status for the period 2013-2018. For the purpose of this section, the river water bodies are referred to their given EPA names as used for their WFD water quality status 2013-2018[8] i.e. the Tolka is referred to as Powerstown_09 and its tributaries as Macetown south and Gaywood by the EPA River Network dataset (2012)[9] but will refer here to its WFD River Water Quality EPA name.

Table 4-1: WFD River Water Quality (2013-2018) for the River Water Bodies within the proposed development.

River Water Body	EPA 2012 name	European Code	WFD Water Quality Status (2013-2018)	Limiting drivers
TOLKA_030	Macetown South Gaywood Powerstown_09	IE_EA_09T010800	Poor	-
POWERSTOWN (Dublin)_010	Powerstown_09	IE_EA_09P210700	Poor	-

The proposed development intersects the Tolka_030 (IE_EA_09T010800) water body at Macetown South on the western half of the site where the proposed development is to be carried out. A drain intersects Wellview Avenue and runs from 105m east of the proposed development, in an inaccessible area densely vegetated (brambles and willow) and fenced off later leading to a tributary of the Tolka as it passes under Wellview Avenue. In addition to this, the River Tolka flows under Damastown Avenue approximately 170m west of the roundabout on the northern half of the site. At the time of survey, these ditches with potential surface water flow were identified as dry or intersected by made ground that seems to interrupt any possible flow that may

[7] Available at https://gis.epa.ie/EPAMaps/. Accessed in January 2020.

[8] Available at https://gis.epa.ie/geonetwork/srv/eng/catalog.search#/metadata/0aa63697-525c-4c02-9fdb-9ac09a473822. Accessed January 2020.

[9] Available at https://gis.epa.ie/geonetwork/srv/eng/catalog.search#/metadata/c4043e19-38ec-4120-a588-8cd01ac94a9c. Accessed January 2020.

occur. The River Tolka further extends 500m upstream before connecting with the Powerstown_010 River (IE_EA_09P210700).

4.3 Flooding

A search of the Flood Maps for the Republic of Ireland developed by the Commissioners of Public Works in Ireland[10] was carried out to obtain information on the flood history of the study area. The records considered relevant in the context of the proposed development are identified as follows;

- According to the Flood maps[10] for the Republic of Ireland, a large area (Area Reference: mulhuddart13) that intersects the proposed development is under review following further information received.
- The proposed development is not located within any historically recorded flood event and it does not intersect any area associated with low, medium or high flood probability.
- A draft Strategic Flood Risk Assessment Report (ROD, 2019) for the Church Fields Land Management Plan was carried out in three stages:
    - Stage 1 – Flood Risk Identification
    - Stage 2 – Initial Flood Risk Assessment
    - Stage 3 – Detailed Flood Risk Assessment

A Flood Risk Review report by RPS (2019b) has been produced as part of the assessment of Church Field Link Road and Cycle network project. The results of the hydraulic modelling indicated that

"*the proposed link road is not susceptible to fluvial flooding from the East Pinkeen Stream for both 1% and the 0.1% Annual Exceedance probability (AEP) events. However, the proposed link road is indicated to be susceptible to flooding from overland flow. The report proposes SuDS measures be included to address flooding from pluvial sources. Therefore, it is recommended that the draft FRA to be adopted to inform the design and final layout for Church Fields Road Link design*".

4.4 Groundwater

The proposed development lies on the Dublin groundwater body (IE_EA_G_008). The Geological Survey Ireland website[11] was consulted for the characteristics of this groundwater body and its aquifer. It is a large waterbody that encompasses moderately productive aquifers in local zones and generally unproductive aquifers. The area is low-lying, with areas of higher elevation surrounding to the south and to a lesser extent to the north. Given the local lithologies (e.g. Dinantian Upper Impure Limestones; Dinantian Lower Impure Limestones; Dinantian Pure Unbedded Limestones; Dinantian Mixed Sandstones, Shales and Limestones.; Namurian Undifferentiated rock), this aquifer is not expected to maintain regional groundwater flow paths. Groundwater circulation from recharge to discharge points will more commonly take place over a distance of less than a kilometre. Discharge will take place close to the surface with additional isolated flow along fractures and fissures located at depths. The aquifer is not considered to have any primary porosity and flow will be through fractures.

4.5 European Sites

There are no European sites in close proximity to the proposed development. The nearest European site, the Rye Water Valley/Carton SAC (site code; 001398) to the proposed development is distanced by approximately 7.4km to the west. A ZoI of 15km from the proposed development (**Figure 4-1)** intersects other European sites, including: Malahide Estuary SAC (site code: 000205); South Dublin Bay SAC (site

[10] Available at http://www.floodinfo.ie/map/floodmaps/. Accessed in January 2020.

[11] Available at https://www.gsi.ie/en-ie/programmes-and-projects/groundwater/activities/understanding-ireland-groundwater/Pages/Groundwater-bodies.aspx#W. Accessed in January 2020.

code: 000210); North Dublin Bay SAC (site code: 000206); South Dublin Bay and River Tolka Estuary SPA (site code: 004024), North Bull Island SPA(004006) and Malahide Estuary SPA (site code: 004025).

In terms of hydrological connectivity, all European sites listed in **Table 4-2** are either not hydrologically connected, or are located in a position within the same catchment management unit, except those of North Dublin Bay SAC, South Dublin Bay SAC, South Dublin Bay and River Tolka Estuary SPA and North Bull Island SPA, which are located in a downstream position. Furthermore, even though these European sites are located within the same groundwater body as the proposed development, the distance to these European sites and the proximity to surface water bodies by the proposed development (see **Figure 4-1**), does not allow for hydrogeological connectivity between European sites and the proposed development.

The Conservation objectives of the corresponding European sites are listed in **Table 4-2** and all European sites within the ZoI are illustrated in **Figure 4-1**.

Table 4-2: Conservation Objectives for Special Areas of Conservation and Special Protection Areas referenced in the Screening for AA Report

Site (Code), Distance from Proposed Development, Conservation Objectives Version & Date	Qualifying Interest(s) [code] * Priority Habitat / Special Conservation Interest(s)	Conservation Objective(s)
Malahide Estuary SAC (000205); located ca. 13.5 km northeast of the proposed development; Version 1.0, 27 May 2013 (NPWS, 2013a)	[1140] Mudflats and sandflats not covered by seawater at low tide	To maintain or restore the favourable conservation condition
	[1310] *Salicornia* and other annuals colonising mud and sand	To maintain or restore the favourable conservation condition
	[1320] *Spartina* swards (Spartinion maritimae)	*Spartina* swards (Spartinion maritimae) was originally listed as a qualifying Annex I habitat for Malahide Estuary SAC due to historical records of two rare forms of cordgrass– small cordgrass (*Spartina maritima*) and Townsend's cordgrass (*S.* x *townsendii*.). However, Preston *et al*. (2002) considers both forms to be alien. In addition, all stands of cordgrass in Ireland are now regarded as common cordgrass (*S. anglica*) (McCorry *et al.,* 2003; McCorry and Ryle, 2009). As a consequence, a conservation objective has not been prepared for this habitat. It will therefore not be necessary to assess the likely effects of plans or projects against this Annex I habitat at this site.
	[1330] Atlantic salt meadows (Glauco-Puccinellietalia maritimae)	To restore the favourable conservation condition
	[1410] Mediterranean salt meadows (Juncetalia maritimi)	To maintain the favourable conservation condition
	[2120] Shifting dunes along the shoreline with *Ammophila arenaria* (white dunes)	To restore the favourable conservation condition
	[2130] Fixed coastal dunes with herbaceous vegetation (grey dunes)*	To restore the favourable conservation condition
North Dublin Bay SAC (000206); located ca. 12km southeast of the proposed development; Version 1.0, 06 November 2013 (NPWS, 2013d)	[1210] Annual vegetation of drift lines	To restore the favourable conservation condition
	[1310] *Salicornia* and other annuals colonising mud and sand	To restore the favourable conservation condition
	[1330] Atlantic salt meadows (Glauco-Puccinellietalia maritimae)	To maintain the favourable conservation condition
	[1410] Mediterranean salt meadows (Juncetalia maritimi)	To maintain the favourable conservation condition

Site (Code), Distance from Proposed Development, Conservation Objectives Version & Date	Qualifying Interest(s) [code] * Priority Habitat / Special Conservation Interest(s)	Conservation Objective(s)
	[2110] Embryonic shifting dunes	To restore the favourable conservation condition
	[2120] Shifting dunes along the shoreline with *Ammophila arenaria* (white dunes)	To restore the favourable conservation condition
	[2130] Fixed coastal dunes with herbaceous vegetation (grey dunes)	To restore the favourable conservation condition
	[2190] Humid dune slacks	To restore the favourable conservation condition
	[1395] Petalwort *Petalophyllum ralfsii*	To maintain the favourable conservation condition
	[1140] Mudflats and sandflats not covered by seawater at low tide	To maintain the favourable conservation condition
Rye Water Valley/Carton SAC (001398); located ca. 7.4 km southwest of the proposed development; Version 6.0, 21 February 2018 (NPWS, 2018a)	[7220] Petrifying springs with tufa formation (Cratoneurion)*	To maintain or restore the favourable conservation condition
	[1014] Narrow-mouthed Whorl Snail *Vertigo angustior*	To maintain or restore the favourable conservation condition
	[1016] Desmoulin's Whorl Snail *Vertigo moulinsiana*	To maintain or restore the favourable conservation condition
South Dublin Bay SAC (000210); located ca. 14.5km southeast of the proposed development; Version 1.0, 22 August 2013 (NPWS, 2013b)	[1140] Mudflats and sandflats not covered by seawater at low tide	To maintain the favourable conservation condition
South Dublin Bay and River Tolka Estuary SPA (004024); intersects the buffer at two places, closest point located ca. 12.5 km southeast of the proposed development; Version 1.0, 09 March 2015 (NPWS, 2015a)	[A046] Light-bellied Brent Goose *Branta bernicla hrota*	To maintain the favourable conservation condition
	[A130] Oystercatcher *Haematopus ostralegus*	To maintain the favourable conservation condition
	[A137] Ringed Plover *Charadrius hiaticula*	To maintain the favourable conservation condition
	[A141] Grey Plover *Pluvialis squatarola*	Grey Plover is proposed for removal from the list of Special Conservation Interests for South Dublin Bay and River Tolka Estuary SPA. As a result, a site-specific conservation objective has not been set for this species.
	[A143] Knot *Calidris canutus*	To maintain the favourable conservation condition
	[A144] Sanderling *Calidris alba*	To maintain the favourable conservation condition
	[A149] Dunlin Calidris *alpina*	To maintain the favourable conservation condition
	[A157] Bar-tailed Godwit *Limosa lapponica*	To maintain the favourable conservation condition
	[A156] Redshank *Tringa totanus*	To maintain the favourable conservation condition
	[A179] Black-headed Gull *Chroicocephalus ridibundus*	To maintain the favourable conservation condition
	[A192] Roseate Tern *Sterna dougallii*	To maintain the favourable conservation condition
	[A193] Common Tern *Sterna hirundo*	To maintain the favourable conservation condition

Site (Code), Distance from Proposed Development, Conservation Objectives Version & Date	Qualifying Interest(s) [code] * Priority Habitat / Special Conservation Interest(s)	Conservation Objective(s)
	[A194] Arctic Tern *Sterna paradisaea*	To maintain the favourable conservation condition
	[A999] Wetlands	To maintain the favourable conservation condition
North Bull Island SPA (004006); located ca. 12.2km southeast of the proposed development; Version 1.0, 09 March 2015 (NPWS, 2015b)	[A046] Brent Goose *Branta bernicla hrota*	To maintain the favourable conservation condition
	[A048] Shelduck *Tadorna*	To maintain the favourable conservation condition
	[A052] Teal *Anas crecca*	To maintain the favourable conservation condition
	[A054] Pintail *Anas acuta*	To maintain the favourable conservation
	[A056] Shoveler *Anas clypeata*	To maintain the favourable conservation condition
	[A130] Oystercatcher *Haematopus ostralegus*	To maintain the favourable conservation condition
	[A140] Golden Plover *Pluvialis apricaria*	To maintain the favourable conservation condition
	[A141] Grey Plover *Pluvialis squatarola*	To maintain the favourable conservation condition
	[A143] Knot *Calidris canutus*	To maintain the favourable conservation condition
	[A144] Sanderling *Calidris alba*	To maintain the favourable conservation condition
	[A149] Dunlin *Calidris alpina*	To maintain the favourable conservation condition
	[A156] Black-tailed Godwit *Limosa*	To maintain the favourable conservation condition
	[A157] Bar-tailed Godwit *Limosa lapponica*	To maintain the favourable conservation condition
	[A160] Curlew *Numenius arquata*	To maintain the favourable conservation condition
	[A162] Redshank *Tringa totanus*	To maintain the favourable conservation condition
	[A169] Turnstone *Arenaria interpres*	To maintain the favourable conservation condition
	[A179] Black-headed Gull *Chroicocephalus ridibundus*	To maintain the favourable conservation condition
	[A999] Wetlands	To maintain the favourable conservation condition

Site (Code), Distance from Proposed Development, Conservation Objectives Version & Date	Qualifying Interest(s) [code] * Priority Habitat / Special Conservation Interest(s)	Conservation Objective(s)
Malahide Estuary SPA (004025); located ca. 13.9 km northeast of the proposed development; Version 1.0, 16 August 2013 (NPWS, 2013c).	[A005] Great Crested Grebe *Podiceps cristatus*	To maintain or restore the favourable conservation condition
	[A046] Brent Goose *Branta bernicla hrota*	To maintain the favourable conservation condition
	[A048] Shelduck *Tadorna*	To maintain the favourable conservation condition
	[A054] Pintail *Anas acuta*	To maintain the favourable conservation condition
	[A067] Goldeneye *Bucephala clangula*	To maintain the favourable conservation condition
	[A069] Red-breasted *Merganser Mergus serrator*	To maintain the favourable conservation condition
	[A130] Oystercatcher *Haematopus ostralegus*	To maintain the favourable conservation condition
	[A140] Golden Plover *Pluvialis apricaria*	To maintain the favourable conservation condition
	[A141] Grey Plover *Pluvialis squatarola*	To maintain the favourable conservation condition
	[A143] Knot *Calidris canutus*	To maintain the favourable conservation condition
	[A149] Dunlin *Calidris alpina*	To maintain the favourable conservation condition
	[A156] Black-tailed Godwit *Limosa*	To maintain the favourable conservation condition
	[A157] Bar-tailed Godwit *Limosa lapponica*	To maintain the favourable conservation condition
	[A162] Redshank *Tringa totanus*	To maintain the favourable conservation condition
	[A999] Wetlands	To maintain or restore the favourable conservation condition

*Indicates a priority habitat under the Habitats Directive

4.6 Mobile Species

4.6.1 Qualifying Interests

Desk study results of the National Biodiversity Data Centre (NBDC)[12] online database indicated that a number of QI mobile species have been recorded in the last ten years within 5 km of the proposed development site. The desk study returned records of European otter (*Lutra lutra*) and the Common Seal (*Phoca vitulina*). However, the proposed development site is outside the range of habitat preference for the Common Seal (*Phoca vitulina*) and additionally no evidence of activity of European otter (*Lutra lutra*) was noted during site survey. Neither of these QIs are associated with the relevant European site(s) identified.

4.6.2 Special Conservation Interests

The desk study of the 5km polygon report of NBDC[12] returned records for 41 SCI bird species from the preceding 10 years (see **Table 4-3**).

Table 4-3 Special Conservation Interest Birds Returned from NBDC Data Search.

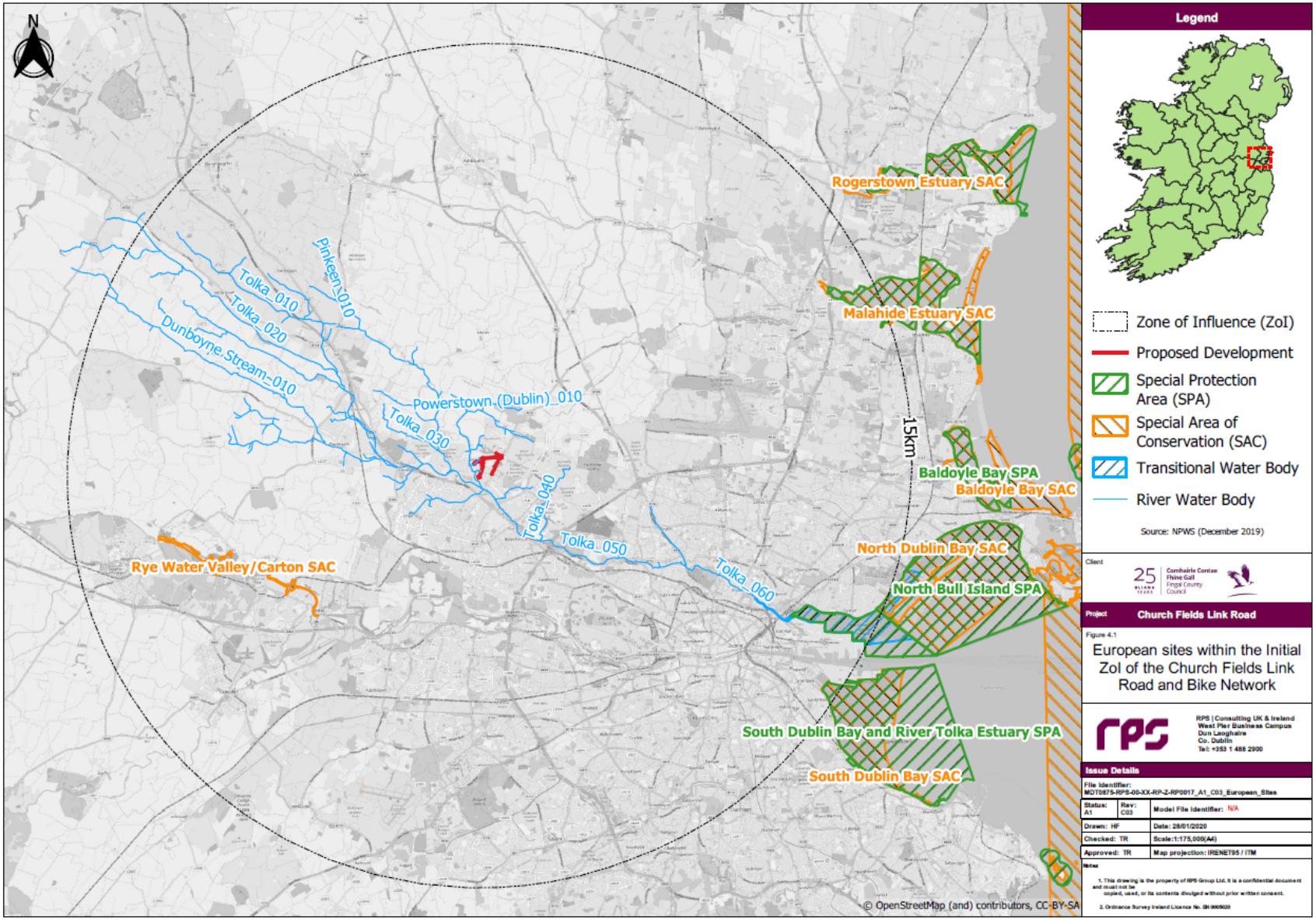
Common Name	Scientific Name	Record Count	Date of Last Record
Arctic Tern	*Sterna paradisaea*	2	31/12/2011
Bar-tailed Godwit	*Limosa lapponica*	3	31/12/2011
Common Kingfisher	*Alcedo atthis*	19	31/12/2011
Common Tern	*Sterna hirundo*	4	31/12/2011
Dunlin	*Calidris alpina*	5	31/12/2011
European Golden Plover	*Pluvialis apricaria*	8	31/12/2011
Great Northern Diver	*Gavia immer*	1	31/12/2011
Hen Harrier	*Circus cyaneus*	1	31/12/2011
Merlin	*Falco columbarius*	2	31/12/2011
Peregrine Falcon	*Falco peregrinus*	12	31/12/2011
Red-throated Diver	*Gavia stellata*	1	31/12/2011
Whooper Swan	*Cygnus cygnus*	2	31/12/2011
Little Egret	*Egretta garzetta*	7	31/12/2011
Black-headed Gull	*Larus ridibundus*	17	31/12/2011
Black-legged Kittiwake	*Rissa tridactyla*	1	31/12/2011
Black-tailed Godwit	*Limosa limosa*	2	31/12/2011
Common Coot	*Fulica atra*	22	31/12/2011
Common Goldeneye	*Bucephala clangula*	3	31/12/2011
Common Greenshank	*Tringa nebularia*	2	31/12/2011
Common Pochard	*Aythya ferina*	6	31/12/2011
Common Redshank	*Tringa totanus*	7	31/12/2011
Common Shelduck	*Tadorna tadorna*	8	31/12/2011
Eurasian Curlew	*Numenius arquata*	12	31/12/2011
Eurasian Oystercatcher	*Haematopus ostralegus*	6	31/12/2011
Eurasian Teal	*Anas crecca*	8	31/12/2011
Eurasian Wigeon	*Anas penelope*	5	31/12/2011
Great Cormorant	*Phalacrocorax carbo*	7	31/12/2011
Great Crested Grebe	*Podiceps cristatus*	5	31/12/2011
Greater Scaup	*Aythya marila*	3	31/12/2011
Grey Plover	*Pluvialis squatarola*	3	31/12/2011
Herring Gull	*Larus argentatus*	14	31/12/2011
Lesser Black-backed Gull	*Larus fuscus*	9	31/12/2011
Little Grebe	*Tachybaptus ruficollis*	15	31/12/2011
Northern Lapwing	*Vanellus vanellus*	20	31/12/2011
Northern Pintail	*Anas acuta*	2	31/12/2011
Northern Shoveler	*Anas clypeata*	1	31/12/2011
Sanderling	*Calidris alba*	2	31/12/2011
Tufted Duck	*Aythya fuligula*	14	31/12/2011
Red Knot	*Calidris canutus*	3	31/12/2011
Grey Heron	*Ardea cinerea*	27	14/09/2012
Mallard	*Anas platyrhynchos*	30	17/01/2015

[12] Available at https://maps.biodiversityireland.ie/Map. Accessed in January 2020.

Of these SCIs, eighteen are associated with the three SPAs identified within the ZoI of the proposed development (i.e. South Dublin Bay and River Tolka Estuary SPA, site code: 004024 and Malahide Estuary SPA, site code: 004025; North Bull Island SPA, site code; 004006 (see **Table 4-2 and Figure 4-2**). Although associated with these SPAs many of these species are coastal birds and the area of the proposed development does not meet their habitat requirements and so do not have direct connectivity to the site.

However, Brent Goose (*Branta bernicla*) an SCI of North Bull Island SPA and Malahide Estuary SPA, has been recorded 4km east of the proposed development and is mentioned here based on their documented habitat usage of large sport pitches and open parklands, such as the area of the proposed development alongside Church Road. Due to the linear nature of the proposed development, its impact is only peripheral on the areas potentially associated with the species. Therefore, the proposed development is predicted to impact on temporary forage potential of Brent Goose (*Branta bernicla),* where they might make use of the area. Moreover, based on the points aforementioned, no likely significant effects on any SCIs from European sites within the ZOI of the proposed development are predicted.

Figure 4-1: European sites within Initial ZoI of the Proposed Development



5 SCREENING ASSESSMENT

5.1 Management of European Sites

Appropriate Assessment is not required where the proposed development is connected with, or necessary to the management of any European site. In this case, the proposed development is not directly connected with or necessary to the management of any European site(s).

5.2 Summary of Information Required

The screening assessment for AA follows the methodologies set out in **Section 3**, and analysis of the following information:

- ZoI of effect from the proposed development; and
- Distribution of QIs and SCIs in relation to the ZoI.

5.3 Assessment of Source Pathway-Receptor Model

As described in the methodology (**Section 3**), the Screening for AA Report assessment adopts a comprehensive and precautionary approach for which the starting point is a complete list of all QIs/SCIs of European sites in Ireland. In this context, **Table 5-1** assesses a specific source-pathway-receptor model for this proposed development.

Table 5-1: Source-Pathway-Receptor Model for the Proposed Development.

Phase	Potential Effect during Construction	Description of Effect Pathway	Potential Zone of Influence of Effect
Construction	Noise, vibration, lighting and human presence during movements of vehicles and staff associated with construction activities.	Noise or other construction-related disturbance could reduce the ability of populations of Qualifying Interest/ Special Conservation Interest species to forage, roost or breed.	Varies by species. Generally assessed within 500 m of the proposed development footprint for wintering birds (see Madsen, 1985; Smit & Visser,1993; and Rees *et al*., 2005). However, distance can be significantly lower (e.g. 150 m for otter underground sites (NRA, 2006), or higher (e.g. hen harriers may take flight when nesting at up to 750 m from disturbance (Whitfield *et al*., 2008).
	Surface water run-off carrying suspended silt or contaminants into local watercourses.	Silt, hydrocarbons, and/or other contaminants (oils, fuels, etc.) may enter nearby watercourses through surface water run-off.	Surface water run-off carrying suspended silt or contaminants into local watercourses.
	Disturbance of invasive species during the construction of the proposed development.	Construction activities could lead to the dispersal of scheduled invasive species either via machinery, materials, clothing or wild animals.	The Zone of Influence of effects for spread of terrestrial invasive species is difficult to accurately estimate, as plant fragments may be spread on tyre treads to distant unrelated sites. In relation to water-borne spread of vegetation, the Zone of Influence generally is restricted to the surface water Catchment Management Unit.
	Changes of groundwater quality, yield and/or flow paths associated with earthworks during construction.	The construction activities could interfere with groundwater quality, yields and/or flow paths, potentially affecting the water quality or habitats dependent on groundwater supply.	The potential Zone of Influence of effects from earthworks to ground water quality, flow or/or yield is difficult to accurately estimate as it will depend on factors including the depth and intrusion of excavations, and time of year (related to water levels). As a precautionary measure, a reasonable worst-case spatial Zone of Influence is considered to be 500 m from the point of excavation; which is a precautionary doubling of the 250 m stated as the potential Zone of Influence from intrusive excavations to sensitive upland peatland sites (SEPA, 2014).

Phase	Potential Effect during Construction	Description of Effect Pathway	Potential Zone of Influence of Effect
Operation	Noise, vibration, lighting and human presence during movements of vehicles and staff associated with operational activities.	During Operation, noise or other construction-related disturbance could reduce the ability of populations of Qualifying Interest/ Special Conservation Interest species to forage, roost or breed.	Varies by species. Generally assessed within 500 m of the proposed development footprint for wintering birds (see Madsen, 1985; Smit & Visser,1993; and Rees *et al*., 2005). However, distance can be significantly lower (e.g. 150 m for otter underground sites (NRA, 2006)), or higher (e.g. hen harriers may take flight when nesting at up to 750 m from disturbance (Whitfield *et al*., 2008)).
	Surface water run-off carrying suspended silt or contaminants into local watercourses.	Silt, hydrocarbons, and/or other contaminants (oils, fuels, etc.) may enter nearby watercourses through surface water run-off.	The Zone of Influence of effects from contaminated surface water is difficult to accurately estimate as it will depend on numerous factors including the type and concentration of pollutants, assimilative capacity of receiving waters, and time of year (related to water levels). As a precautionary measure, a reasonable worst-case Zone of Influence for water pollution from the proposed development site is considered to be the downstream surface water catchment. In this report the surface water catchment is defined at the scale of Catchment Management Unit (CMU) as adopted in the River Basin Management Plan (RBMP) for Ireland 2018-2021 (DoHPLG, 2018). The open coastlines, where Coastal Waterbodies begin, are considered to fall outside the potential Zone of Influence of significant effects.
	Disturbance of invasive species during the construction of the proposed development.	Operational activities could lead to the dispersal of scheduled invasive species either via machinery, materials, clothing or wild animals.	The Zone of Influence of effects for spread of terrestrial invasive species is difficult to accurately estimate, as plant fragments may be spread on tyre treads to distant unrelated sites. In relation to water-borne spread of vegetation, the Zone of Influence generally is restricted to the surface water Catchment Management Unit.
	Changes of groundwater quality yield and/or flow paths associated with earthworks during operation.	Operational activities (e.g. earthworks and infilling) could interfere with groundwater flow paths, potentially affecting the quality or distribution of habitats dependent on groundwater supply.	The potential Zone of Influence of effects from earthworks to ground water quality, flow or/or yield is difficult to accurately estimate as it will depend on factors including the depth and intrusion of excavations, and time of year (related to water levels). As a precautionary measure, a reasonable worst-case spatial Zone of Influence is considered to be 500 m from the point of excavation; which is a precautionary doubling of the 250 m stated as the potential Zone of Influence from intrusive excavations to sensitive upland peatland sites (SEPA, 2014).

5.3.1 Scoping of Effects

5.3.1.1 Noise, Vibration, Lighting and Human Presence

The effects of noise, vibration, lighting, and human presence on SCI species and/or QI habitats and species, during construction and operation of the proposed development, have been assessed. Considering the temporary nature of the construction works, these effects are not predicted to result in any likely significant effects within the ZoI. The effects of noise, vibration, lighting and human presence are, therefore, scoped out from further assessment.

5.3.1.2 Disturbance to mobile QI and SCI

The desktop study revealed the potential presence of mobile QI and a number of SCI species within the ZoI of the proposed development. Of the species listed, two QIs (otter and common seal) and eighteen SCIs are associated with relevant European sites (see **Section 4.5**). Although records of otter were returned from the desk study, the ecology surveys found no otter nor evidence of otter features within the proposed development area. The proposed link road and cycle network, which will involve construction works 75m west at its closest point to Gaywood watercourse, would not encompass potential disturbance to otter and its habitat due to the lack of evidence of activity and habitation of the protected mammal. It would further have no likely impact on the Common seal due to the scale of the development works and the low magnitude of impacts predicted owing to the distance from maritime environment. The same conclusion is valid for the eighteen SCIs.

5.3.1.3 Surface Water Run-off

The proposed development for the link road and cycle network between Wellview Avenue and the future linear parkland parallel to Church Road intersects the Powerstown River at its tributary Macetown South (see **Figure 4-1** and **Section 4.2**). Macetown South although recognised as a watercourse by the EPA, no longer functions as a watercourse based on site assessment, except for approximately 100m upstream of its confluence with the Powerstown_09 (downstream of the proposed development). It is also recognised that a dry ditch intersected by parts provides indirect connectivity to the Gaywood watercourse. Furthermore, existing road drainage solutions intersected by the proposed development ultimately drain into the tributary watercourses of the Tolka River. Potential effects from the construction works on water quality of the mentioned watercourses has been assessed. Macetown South flows under Damastown Avenue through a culverted structure while Gaywood flows west of Wellview avenue, both of which flow back into Powerstown River network. The proposed three attenuation ponds are to be located at Macetown South.

As Sustainable Drainage Systems (SuDS) is required as part of the Greater Dublin Strategic Drainage Study (GDSDS, 2005), only residual impacts are predicted. The likelihood of a residual pollution resulting in an LSE is predicted low, as is its' level of magnitude owing to the nature and design of the proposed development. The conclusion applies for all drainage areas including the areas 5, 6 and 7 where outfalls are unconfirmed but likely to flow into Powerstown_09 or the Tolka River. Due to the limited nature of the discrete works, however, the drainage solutions are considered to have a minimal impact and no likely significant effects are predicted.

Regarding drainage area 3 where surface water will be directed into the proposed series of three attenuation ponds, that are to be located to the west of the wooded section of the Macetown South watercourse, it is confirmed that the proposed location of the ponds alongside, and above the mapped Macetown South lacks surface water flow due to considerable infilling and heavy vegetation and can be described as a non-functional watercourse (northeast end). As a non-functional watercourse surface water flow is absent and does not show function or capacity to do so. The proposed attenuation ponds do not provide a flow path via the northeast end of Macetown South and no LSE's are predicted. Furthermore, approximately 100m downstream (southwest end) of the proposed development, flow is slow with intermittent areas of standing water. Regarding this section of Macetown South the likely LSE of contaminants entering Powerstown_09 is considered low based on the low/stagnant flow, bypass separator treatment at its inlet, and a hydro-break or similar at its outfall. Contamination if any, would be of discrete increments and no likely significant effects can be predicted from the proposed attenuation ponds.

The effects of pollution from surface water runoff on SCI species and/or QI habitats and species, during the proposed developments' construction and operation has been assessed. The water bodies flowing in the vicinity of the proposed development do not provide hydrological connectivity to any European sites except for South Dublin Bay SAC, South Dublin Bay and River Tolka Estuary SPA, North Bull Island SPA and North Dublin Bay SAC which are located in a downstream position. Although downstream with Wetlands (A999) as a supporting feature for SCIs, the susceptibility of these to discrete increments in sediment load is considered unlikely to result in an LSE. The proposed link road and cycle network will have no direct connectivity with the watercourse; therefore no likely significant effects can be predicted from the proposed development.

5.3.1.4 Disturbance of Invasive Species

The effects of disturbance of invasive species on QI habitats and SCI supporting wetlands during the proposed development has been assessed. At present there is no evidence of third schedule invasive species on site either on unenclosed lands or as a result of ongoing construction of proximal residential developments. Due to this, it is considered highly unlikely the proposed development will increase the potential or cause the spread of invasive species to European sites.

5.3.1.5 Changes of Groundwater Quality, Yield and/or Flow Paths

The effects of changes to the yield of groundwater associated with the proposed development on SCI species and/or QI habitats and species have been assessed and scoped out from further assessment. One groundwater dependant QI habitat is known to occur within 15km of the proposed development but is not hydrologically connected to the proposed development due to it being drained by a different water body (Rye Water_040; Site code: IE_EA_09R010600). The Rye Water Valley/Carton SAC (001398) supports Petrifying springs with tufa formation (Cratoneurion), a priority habitat, in addition to Narrow-mouthed Whorl Snail (*Vertigo angustior*) and Desmoulin's Whorl Snail (*Vertigo moulinsiana*), both of which are dependent on stable and specific ground water conditions. Due to this SAC being upstream and not hydrologically connected, no likely significant effects that can be predicted from the proposed development.

5.3.1.6 In-Combination Effects

Legislation, guidance and case law (See **Section 1.1**and **Section 3.1**) requires that in-combination effects with other plans or projects are considered. On this basis, a range of other plans and projects were considered in terms of their potential to have in-combination effects with the proposed development.

The assessment of in-combination effects has regard for developments potentially affecting the South Dublin Bay SAC, South Dublin Bay and River Tolka Estuary SPA, North Bull Island SPA and North Dublin Bay SAC with which a potential pathway has been identified. The Natura Standard Data Form for the South Dublin Bay SAC (NPWS, 2017a), South Dublin Bay and River Tolka Estuary SPA (NPWS, 2017b), North Bull Island SPA (NPWS, 2017c) and North Dublin Bay SAC (NPWS, 2017d) identify the most important negative impacts (high and medium) and activities with high impact on the sites (see **Table 5-2**).

Table 5-2:Threats and Pressures of European Sites.

European Site Name (Code)	Threats and Pressures Code	Threats and Pressures Description
South Dublin Bay SAC (000210)	E01	urbanised areas, human habitation
	G01.01.02	non-motorized nautical sports
	J02.01.02	reclamation of land from sea, estuary or marsh
	E02	industrial or commercial areas
	D01.01	paths, tracks, cycling tracks
	F02.03.01	bait digging / collection
	H03	marine water pollution
	G01.01	nautical sports
	G01.02	walking, horse-riding and non-motorised vehicles
	E03	discharges
	K02.02	accumulation of organic material
South Dublin Bay and River Tolka Estuary SPA (004024)	D01.02	roads, motorways
	F02.03	leisure fishing
	E02	industrial or commercial areas
	K02.03	eutrophication (natural)
	G01.01	nautical sports
	F02.03.01	bait digging / collection
	E01	urbanised areas, human habitation
	J02.01.02	reclamation of land from sea, estuary or marsh
	E03	discharges
	G01.02	walking, horse-riding and non-motorised vehicles
North Bull Island SPA (004006)	E03	discharges
	G01.02	walking, horse-riding and non-motorised vehicles
	G01.01	nautical sports

European Site Name (Code)	Threats and Pressures Code	Threats and Pressures Description
	F02.03.01	bait digging / collection
	D01.05	bridge, viaduct
	E03	discharges
	D03.02	shipping lanes
	E02	industrial or commercial areas
	D01.02	roads, motorways
	G02.01	golf course
	E01.01	continuous urbanisation
North Dublin Bay SAC (00206)	H01.09	diffuse pollution to surface waters due to other sources not listed
	E03	discharges
	J01.01	burning down
	A04	grazing
	E01	urbanised areas, human habitation
	E02	industrial or commercial areas
	G01.01	nautical sports
	H01.03	other point source pollution to surface water
	F02.03.01	bait digging / collection
	G01.02	walking, horse-riding and non-motorised vehicles
	G02.01	golf course
	I01	invasive non-native species
	K03.06	antagonism with domestic animals

5.3.1.7 Plans

5.3.1.7.1 National Development Plan

The National Development Plan 2018-2027 (Government of Ireland, 2018) designates Enhanced Regional Accessibility as one of the National Strategic Investment Priorities in order to maximise the growth potential of regional urban centres. The National Development Plan highlights the essential requirement to enhance and upgrade accessibility between urban centres of population and their regions, in parallel with the initiation of compact growth of urban centres. Investment in national, regional and local road infrastructure will be delivered in accordance with the NPF.

This Strategic Priority carries the potential for in-combination impacts with the proposed development on potential receptors, specifically designated sites/habitats and species. However, the National Development Plan 2018-2027 also set biodiversity as a priority (i.e. *Enhanced Amenity and Heritage*) and apportions €1.4 billion to, amongst other, support further deliver compliance with the Habitat's Directive. This compliance will, inevitably, implicate that all in-combination and cumulative potential impacts with other developments are contemplated and mitigated. The in-combination impacts from the proposed development with the National Development Plan 2018-2027 is then deemed null.

5.3.1.7.1.1 Fingal Development Plan 2017-2023

As part of the Fingal Development Plan 2017-2023 (currently under consultation in respect of Variation Number 1) for the Churchfields area (FCC, 2017b), two map based local objectives have been identified (i.e. Map Based Local Objectives 89 and 90) for the Church Field area, including;

- 89: "*Protect the woodland along Church Road in tandem with the retention of scenic views to County Meath*" and;
- 90: "*Provide for adequate screening and separation of new development from the residential housing adjoining to the south*".

The Fingal County Development Plan (Variation Number 1) has been adopted and there have been no changed in respect of this development plan, therefore no likely significant effects are predicted.

Furthermore, The Fingal County Development Plan 2017-2023 (Fingal County Council, 2017d) also sets out several relevant biodiversity objectives, including:

Objective GI24

Ensure biodiversity conservation and/or enhancement measures, as appropriate, are included in all proposals for large scale development such as road or drainage schemes, wind farms, housing estates, industrial parks or shopping centres.

Objective NH03

Implement the Fingal Biodiversity Action Plan 2015 (Fingal County Council, 2010) *and any revisions thereof in partnership with all relevant stakeholders.*

Objective NH09

Support the National Parks and Wildlife Service, Department of Arts, Heritage, Regional, Rural and Gaeltacht Affairs, in the maintenance and, as appropriate, the achievement of favourable conservation status for the habitats and species in Fingal to which the Habitats Directive applies.

Objective NH27

Protect existing woodlands, trees and hedgerows which are of amenity or biodiversity value and/or contribute to landscape character and ensure that proper provision is made for their protection and management.

Objective DMS01

Ensure that all plans and projects in the County which could, either individually or in combination with other plans and projects, have a significant effect on a European site or sites are subject to Screening for Appropriate Assessment.

Objective NH52

Ensure that development reflects and reinforces the distinctiveness and sense of place of High Amenity areas, including the retention of important features or characteristics, taking into account the various elements which contribute to its distinctiveness such as geology and landform, habitats, scenic quality, settlement pattern, historic heritage, local vernacular heritage, land-use and tranquillity.

5.3.1.7.1.2 Church Fields Land Management Plan

Fingal County Council, as part of its commitment under Rebuilding Ireland, has developed a programme of new-build housing on land in its ownership in the Dublin 15 area including improving the environment in existing estates in the area of Churchfields (FCC, 2017c). The Church Fields Land Management Plan identifies the design characteristics for which future designers should have in regard with respect to the requirements of the Fingal Development Plan 2017-2023 (or any subsequent variation that may be approved).

The Plan's brief for these lands is to include housing and other community needs facilities in addition to local improvement and place-making. This plan carries with it potential for in-combination impacts with the proposed development where any future new or residential development is proposed. It is intended that the development of residential and commercial as well as linear park would to be phased and can only be commenced once the proposed development has been constructed to support future development. As such, any such future proposals would be subject to the requirements of the planning process including Screening for Appropriate Assessment.

5.3.1.7.1.3 Water Quality

The Water Framework Directive (WFD) 2000/60/EC provides a framework for the protection and improvement of rivers, lakes, marine and ground waters in addition to water-dependent habitats. The aim of the WFD is to prevent any deterioration in the existing status of water quality, including the protection of good and high quality status where it exists. The second cycle River Basin Management Plan, covering the period 2018 – 2021, was published in April 2018. The Plan sets out a proposed framework for the protection and improvement of Ireland's water environment in line with Water Framework Directive objectives. It was determined that the multiple River Basin District approach used in the 2009-2015 Management Plan was not as effective as

expected so the 2018-2021 Management Plan has defined a single River Basin District (DoHPLG, 2018). This national strategy outlined all the actions required to improve the water quality, with county councils and Irish Water playing an important role in the implementation of the plan.

There are binding obligations on all Irish local authorities, including Fingal County Council, to achieve good status of surface waters, under the terms of the EU Water Framework Directive 2000/60/EC and in related policies in the Fingal County Development Plan (FCC, 2017a), e.g. Strategic Environmental Objective 5 Water:

"*To Protect and where necessary improve and maintain water quality and the management of watercourses and groundwater, in compliance with the requirements of the Water Framework Directive objectives and measures*."

Furthermore, Irish Water, who has national statutory remit for wastewater and drinking water services, has committed to a 25-year programme of improvements to wastewater impacts on surface waters in their Water Services Strategic Plan (WSSP) (Irish Water, 2015).

5.3.1.8 Projects

A search was conducted of planning applications (projects) within the vicinity of the proposed development, using the Fingal County Council planning map viewer[13] and the Department of Housing, Planning and Local Government EIA portal map viewer[14]. The search was limited to the seven-year period preceding the date of issue of this report and excluded retention applications (i.e. typically local-scale residential or commercial developments where an impact has already occurred), incomplete, withdrawn, and refused applications. The relevant projects with potential for in-combination adverse effects on the integrity of European sites, are detailed in **Table 5-3.**

A search of An Bord Pleanála's website[15] was additionally completed to identify any relevant applications, including Strategic Infrastructure Development (SID) and Strategic Housing Development (SHD) in the past three years or in close proximity to the proposed development.

A number of planning applications in proximity to the proposed development have the potential to result in the surface water and/or ground water pollution due to pending or recently approved status. For the planning applications PARTXI/002/16 and PARTXI/002/17 no documentation is available as the decision is still pending but would be subject to undertake an Appropriate Assessment if granted permission.

Upgrade works to Ringsend WWTP (PL 29S.301798) will not commence until 2022 and has undergone AA to mitigate any negative impacts to European sites. Pathways are identified where waterbodies lead downstream to some European sites previously mentioned but upon completion of the Appropriate Assessment it was accepted and concluded that "by itself or in combination with other plans or projects, would not adversely affect the integrity of the European Sites". Ultimately the project will result in a positive effect on water quality and biodiversity in Dublin Bay.

Housing development 305459 was subject to AA and is located downstream from the proposed development in close proximity to the River Tolka but was identified to have no potential connectivity to European sites located within Dublin Bay due to the project having no hydrological connectivity to the nearby River Tolka. Given that this site has no link or connectivity to European sites, there can be no in-combination effects.

Planning application FW17A/0083 and FW17A/0025 are of note due to the works being carried out in close proximity to the River Tolka in multiple townlands (FW17A/0083) and the scale of works being carried out (FW17A/0025). The proposed developments were subject to AA and an Environmental Impact Statement (EIS) prepared which indicated a number of mitigation measures to avoid adverse effects on the integrity of

[13] Available online at: http://fingalcoco.maps.arcgis.com/apps/webappviewer/index.html?id=3fa7d9df584c4d93aab202638db9dd1a. Accessed in January 2020.

[14] Available online at: http://housinggovie.maps.arcgis.com/apps/webappviewer/index.html?id=d7d5a3d48f104ecbb206e7e5f84b71f1. Accessed in January 2020.

[15] Available online at: http://www.pleanala.ie/. Accessed in January 2020.

European sites. Therefore, where described mitigation measures are effectively incorporated, no likely significant effects can be predicted from the development.

Table 5-3: Planning Search Results from the County Planning and EIA Portal Maps

Planning Application Reference Number	Project/Applicant Name and Proposed Location	Brief Development Description	Application Status/ Outcome	Approximate Distance and Direction from Proposed Development	Date Planning Application Granted
FW17A/0083	Irish Water/ For development in the Tolka River Valley Park in the townlands of Parslickstown, Buzzardstown, Coolmine.	For development in the Tolka River Valley Park in the townlands of Parslickstown, Buzzardstown, Coolmine, Corduff and Deanstown in Mulhuddart and Blanchardstown Dublin 15. Sewer Duplication and Storage Scheme.	Consented	c. 300m southwest	05/07/2017
FW17A/0025	ADSIL/ Bounded to the south by the R121/ Cruiserath Road, to the west by R121/ Church Road and to the north, by undeveloped land Hollywood Road, Dublin 15	Construction of a data storage facility building with an overall height of c. 13 metres, containing data halls, associated electrical and AHU Plant Rooms, a loading bay, maintenance and storage space, office administration areas, screened plant and solar panels at roof level, all within a building with a total gross floor area of 20,739 sq.m; Emergency generators, Gas Insulated Switchgear (GIS) substation, Modification of the existing entrance and a new access control point to the lands from the existing roundabout on the R121 / Church Road to the west of the application site, construction of internal road network, on an application site area measuring 26.14 hectares.	Consented	c. 100m northeast	24/04/17
PARTXI/002/16	Fingal County Council/ Wellview Green, Mulhuddart, Dublin 15	Construction of 20 modular houses and associated site development and external works	Pending	At the proposed area	06/01/16
PARTXI/002/17	Housing Department/ Avondale, Mulhuddart, Dublin 15	Construction of 44 new dwelling units, and associated site development and external works.	Pending	At proposed area	30/01/17
PARTXI/006/18	Architects Department/ Wellview Estate, Mulhuddart, Dublin 15	The proposal, which accords with the Development Plan policy and zoning objectives for the site, includes the construction of 20 no. dwellings and all associated site development works.	Pending	c. 300m east	15/04/19
Strategic Housing Developments					
305459	Brady's Public House, Old Navan Road, Dublin 15.	198 no. build to rent shared living suites.	Pending	c. 4km southeast	To be decided 16/01/20
Strategic Infrastructure Developments					
PL29S.301798	Ringsend Wastewater Treatment Plant, Pigeon House Road, Dublin 4 and Newtown, North Road (R135) Dublin 11	Revised Upgrade works to Ringsend WWTP and the construction of a Reginal Biosolids Facility at Newtown in North Dublin. Ringsend not currently capable of achieving nutrient reduction to meet standards of EPA wastewater discharge licence.	Consented	c. >10km southeast	26/04/19

5.3.1.9 In-combination conclusions

The applications listed in **Table 5-3** have been subject to Environmental Reports which ultimately indicated that these developments will not produce adverse effects on the integrity of European sites. The plans additionally listed in **Section 5.3.1.7** provide objectives and aims that adequately rule out implications for in-combination effects. Therefore, no likely significant effects can be predicted from these plans or projects.

No other pathways have been identified by which any plan or project could have a likely significant in-combination effect on any of the European sites. It is concluded that there is no potential for cumulative or in-combination effects.

6 SCREENING CONCLUSIONS

RPS has prepared this report to inform the Screening for Appropriate Assessment to assess whether the proposed development, individually or in combination with other plans or projects, and in view of best scientific knowledge, are likely to have a significant effect on any European site(s).

The screening exercise was completed in compliance with the relevant European Commission guidance, national guidance, and case law. The potential impacts of the proposed development have been considered in the context of the European sites potentially affected, their Qualifying Interests or Special Conservation Interests, and their Conservation Objectives.

Through an assessment of the source-pathway-receptor model, which considered the ZoI of effects from the proposed development and the potential in-combination effects with other plans or projects, the following findings were reported:

- The proposed development is not directly connected with or necessary to the management of any European site;
- The proposed development will not give rise to likely significant effects on the qualifying interests of any SAC, in view of best scientific knowledge and in view of the conservation objectives of the sites concerned; and
- The proposed development will not give rise to likely significant effects on the special conservation interests of any SPA, in view of best scientific knowledge and in view of the conservation objectives of the sites concerned.

On the basis of objective scientific information, it is the considered opinion of RPS that, in completing its report to inform Screening for Appropriate Assessment in respect of the proposed development, the project either individually or in combination with other projects and plans, is not likely to have a significant effect on any European site.

7 REFERENCES

Balmer, D. E., Gillings, S., Caffrey, B. J., Swann, R. L., Downie, I. S., & Fuller, R. J. (2013). *Bird Atlas 2007-11: the breeding and wintering birds of Britain and Ireland*. Thetford: BTO.

Delaney, A., Devaney, F.M., Martin, J.M., Barron, S.J. (2013). *Monitoring survey of Annex I sand dune habitats in Ireland*. Irish Wildlife Manual No. 75

Devaney, F.M., and Perrin, P. (2015) Saltmarsh Angiosperm Assessment Tool for Ireland (SMAATIE) (2013-W-DS-10). EPA Research End of Project Report. End of Project Report and associated Practitioner's Manual (EPA Research Report No. 163). Prepared for the Environmental Protection Agency by BEC Consultants Ltd

DoCHG (2017) National Biodiversity Action Plan 2017-2021. Department of Culture, Heritage and the Gaeltacht.

DoEHLG. (2010). *Appropriate Assessment of Plans and Projects in Ireland – Guidance for Planning Authorities*. Department of Environment, Heritage and Local Government.

DoHPLG. (2018). *River Basin Management Plan for Ireland 2018-2021*. Department of Housing, Planning and Local Government.

EC. (2000). *Communication from the Commission on the Precautionary Principle*. Office for Official Publications of the European Communities, Luxembourg.

EC. (2001). *Assessment of Plans and Projects significantly affecting Natura 2000 sites: Methodological guidance on the provisions of Article 6(3) and 6(4) of the Habitats Directive 92/43/EEC*.

EC. (2006). *Nature and biodiversity cases: Ruling of the European Court of Justice*. Office for Official Publications of the European Communities, Luxembourg.

EC. (2007). *Guidance document on Article 6(4) of the 'Habitats Directive' 92/43/EEC – Clarification of the concepts of: alternative solutions, imperative reasons of overriding public interest, compensatory measures, overall coherence, opinion of the Commission*. Office for Official Publications of the European Communities, Luxembourg.

EC. (2013). *Interpretation manual of European Union Habitats – EUR28*. European Commission, DG Environment, Nature ENV B.3.

EC. (2014). Article 6 of the Habitats Directive: Rulings of the European Court of Justice.

EC. (2018). Commission notice "*Managing Natura 2000 sites, The provisions of Article 6 of the 'Habitats' Directive 92/43/EEC*". Brussels, 21.11.2018, C (2018) 7621 final. European Communities, Luxembourg.

FCC (2017a). Fingal Development Plan 2017-2023- Strategic Environmental Assessment Statement. Fingal County Council.

FCC (2017b). Fingal Development Plan 2017-2023- Written Statement Appendices. Fingal County Council.

FCC (2017c). Church Field Land Management Plan. Fingal County Council.

FCC (2017d). Fingal Development Plan 2017-2023- Written Statement. Fingal County Council.

GDSDS (2005) Greater Dublin Strategic Drainage Study Final Strategy Report. Greater Dublin Strategic Drainage Study.

Government of Ireland (2018). Project Ireland 2040: National Development Plan 2018-2027.

Hardey, J., Crick, H., Wernham, C., Riley, H., Etheridge, B. & Thompson, D. (2013) *Raptors: a field guide to survey and monitoring* (3rd Edition). The Stationery Office, Edinburgh.

Irish Water. (2015). *Water Services Strategic Plan – A Plan for the Future of Water Services*. Irish Water.

McCorry, M., and Ryle, T (2009) Saltmarsh Monitoring Project 2007-2008. Volume 1, contract reference D/C/227, Final report (2009). A Report for Research Branch, National Parks and Wildlife Service.

NPWS (2013a) Conservation Objectives: Malahide Estuary SAC 000205. Version 1. National Parks and Wildlife Service, Department of Arts, Heritage and the Gaeltacht.

NPWS (2013b) Conservation Objectives: South Dublin Bay SAC 000210. Version 1. National Parks and Wildlife Service, Department of Arts, Heritage and the Gaeltacht.

NPWS (2013c) Conservation Objectives: Malahide Estuary SPA 004025. Version 1. National Parks and Wildlife Service, Department of Arts, Heritage and the Gaeltacht.

NPWS (2013d) Conservation Objectives: North Dublin Bay SAC 000206. Version 1. National Parks and Wildlife Service, Department of Arts, Heritage and the Gaeltacht.

NPWS (2013e) The Status of EU Protected Habitats and Species in Ireland. Habitats Assessments Volume 2, Version 1.1. Unpublished Report, National Parks and Wildlife Service. Department of Arts, Heritage and the Gaeltacht, Dublin.

NPWS (2013f) The Status of EU Protected Habitats and Species in Ireland. Species Assessments Volume 3, Version 1.1. Unpublished Report, National Parks and Wildlife Service. Department of Arts, Heritage and the Gaeltacht, Dublin.

NPWS (2015a) Conservation Objectives: South Dublin Bay and River Tolka Estuary SPA 004024. Version 1. National Parks and Wildlife Service, Department of Arts, Heritage and the Gaeltacht.

NPWS (2015b) Conservation Objectives: North Bull Island SPA 004006. Version 1. National Parks and Wildlife Service, Department of Arts, Heritage and the Gaeltacht.

NPWS. (2017a). *South Dublin Bay SAC – Natura 2000 Standard Data Form*. National Parks and Wildlife Service, Dublin, Ireland. Available at

https://www.npws.ie/sites/default/files/protected-sites/natura2000/NF000210.pdf

NPWS (2017b). *South Dublin Bay and River Tolka Estuary SPA- Natura 2000 Standard Data Form.* National Parks and Wildlife Service, Dublin, Ireland. Available at

https://www.npws.ie/sites/default/files/protected-sites/natura2000/NF004024.pdf

NPWS (2017c). *North Bull Island SPA- Natura 2000 Standard Data Form.* National Parks and Wildlife Service, Dublin, Ireland. Available at

https://www.npws.ie/sites/default/files/protected-sites/natura2000/NF004006.pdf

NPWS (2017d). *North Dublin Bay SAC- Natura 2000 Standard Data Form.* National Parks and Wildlife Service, Dublin, Ireland. Available at

https://www.npws.ie/sites/default/files/protected-sites/natura2000/NF000206.pdf

NPWS (2018a) Conservation objectives for Rye Water Valley/Carton SAC [001398]. Generic Version 6.0. Department of Culture, Heritage and the Gaeltacht.

NPWS (2019a). The Status of EU Protected Habitats and Species in Ireland. Volume 1: Summary Overview. Unpublished NPWS report.

NPWS (2019b). The Status of EU Protected Habitats and Species in Ireland. Volume 2: Habitat Assessments. Unpublished NPWS report. Edited by: Deirdre Lynn and Fionnuala O'Neill

NPWS (2019c). The Status of EU Protected Habitats and Species in Ireland. Volume 3: Species Assessments. Unpublished NPWS report. Edited by: Deirdre Lynn and Fionnuala O'Neill.

NRA. (2009). Guidelines for Assessment of Ecological Impacts of National Roads Schemes. Revisions 2, 1st June 2009. National Roads Authority.

O'Neill, F.H., Martin, J.R., Devaney, F.M. & Perrin, P.M. (2013) The Irish semi-natural grasslands survey 2007-2012. Irish Wildlife Manuals, No. 78. National Parks and Wildlife Service, Department of Arts, Heritage and the Gaeltacht, Ireland.

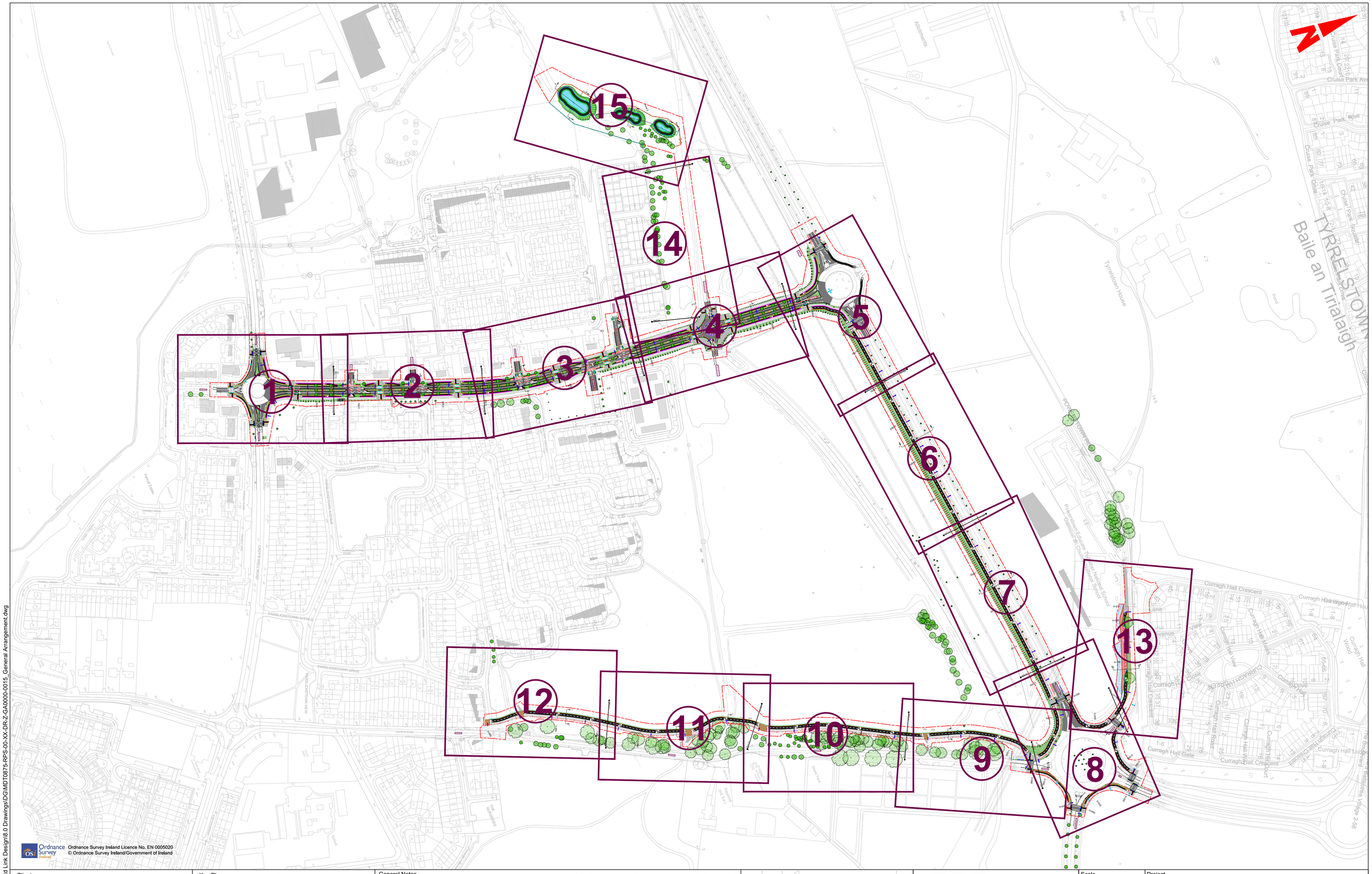
Perrin, P., Martin, J., Barron, S., O'Neill, F., McNutt, K., and Delaney, A. (2008) National Survey of Native Woodlands 2003-2008. Volume I: Main report. A report submitted to the National Parks & Wildlife Service.

ROD (2019). *Draft Churchfields, Mulhuddart Surface Water management Plan Part 1: Strategic Flood Risk Assessment*. Report prepared for Fingal County Council.

RPS (2019a). Church Fields Link Road- Damastown Avenue Cycle Route Options Selection Report. RPS, West Pier Business Campus, Dun Laoghaire, Dublin, Ireland.

RPS (2019b). Church Fields Link Road- Flood Risk Review Report. RPS, West Pier Business Campus, Dun Laoghaire, Dublin, Ireland.

Appendix A
Proposed Development – General Arrangement Drawings



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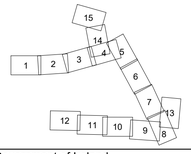
Client

Comhairle Contae Fhine Gall
Fingal County Council

Key Plan



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Project
CHURCH FIELDS LINK ROAD & CYCLE NETWORK

Title
PART 8 PLANNING
GENERAL ARRANGEMENT
KEY PLAN

File Identifier
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Status
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Rev
P03

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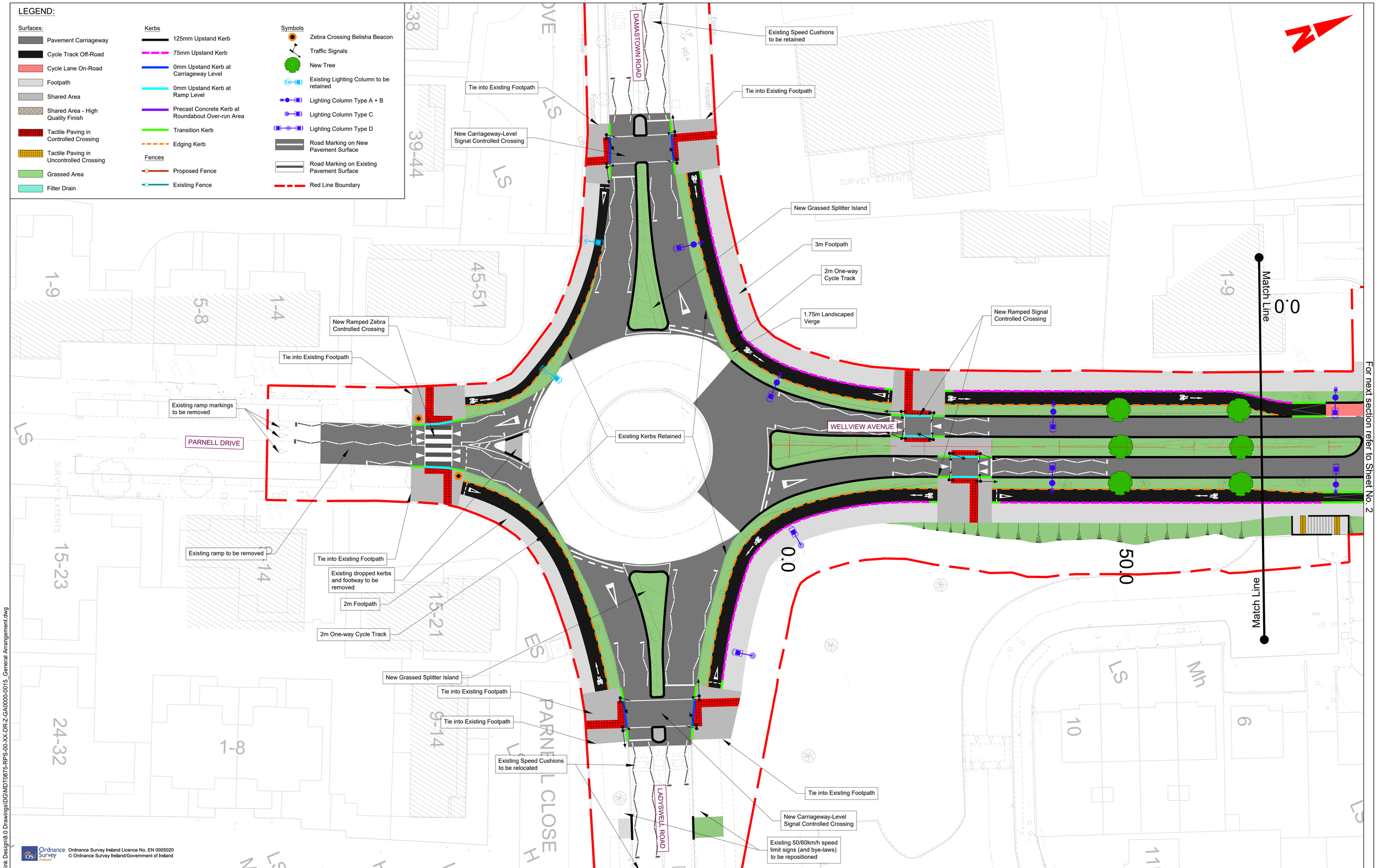
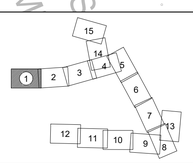


Client

Comhairle Contae Fhine Gall
Fingal County Council

Key Plan



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Project
CHURCH FIELDS LINK ROAD & CYCLE NETWORK

Title
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File Identifier
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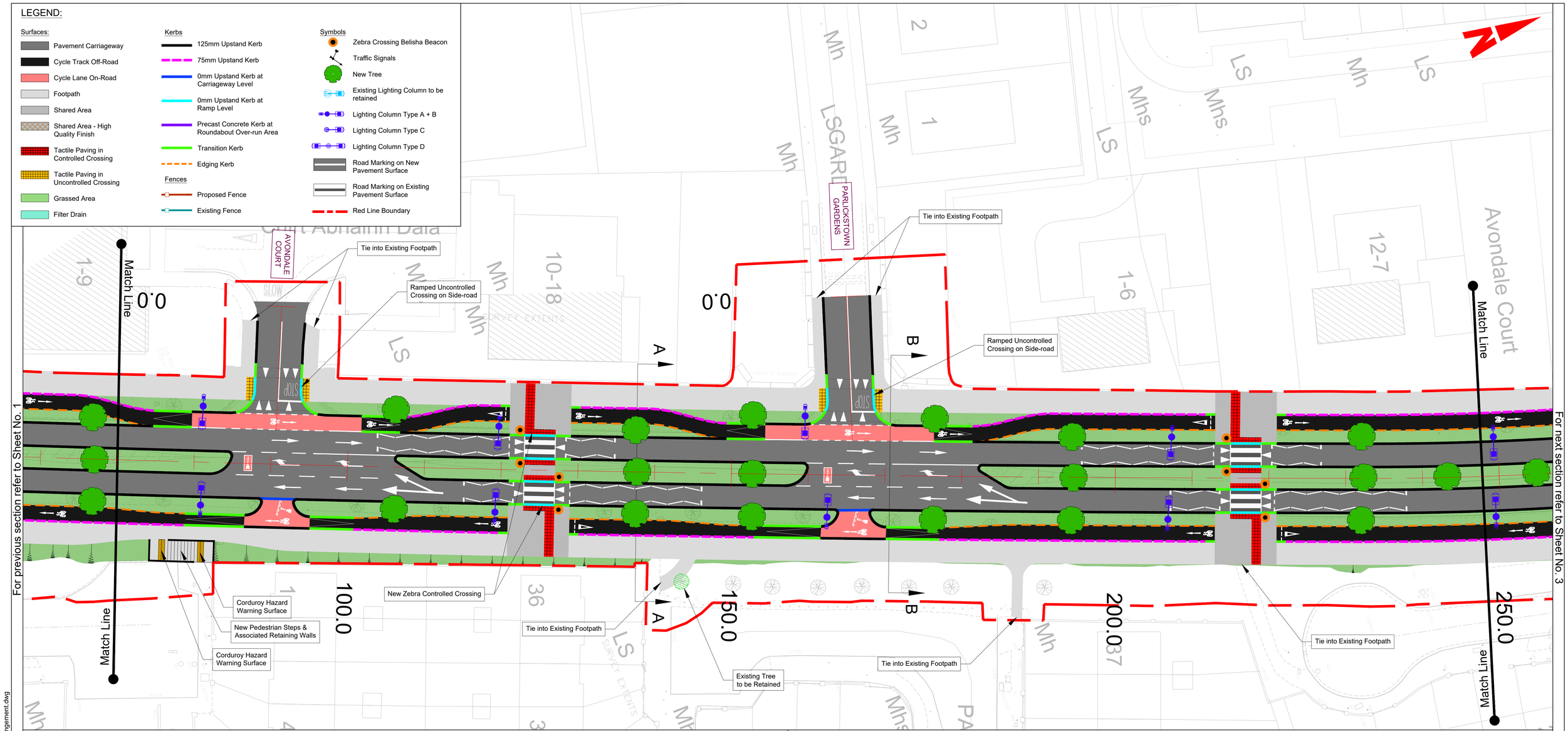

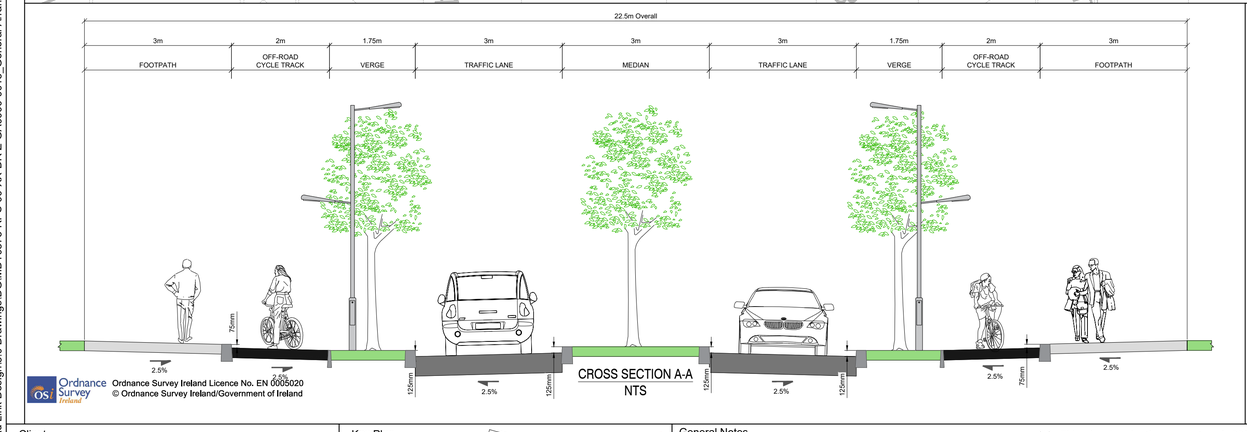

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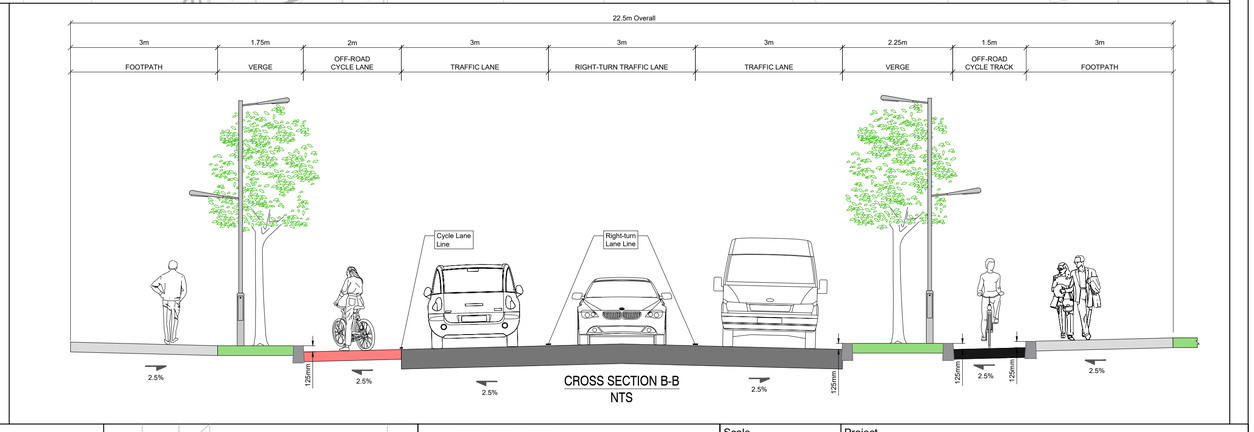

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Client

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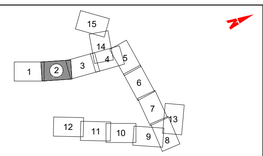
Fingal County Council

Key Plan



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Project CHURCH FIELDS LINK ROAD & CYCLE NETWORK

Title PART 8 PLANNING GENERAL ARRANGEMENT

File Identifier MDT0875-RPS-00-XX-DR-Z- GA0002

Status S4

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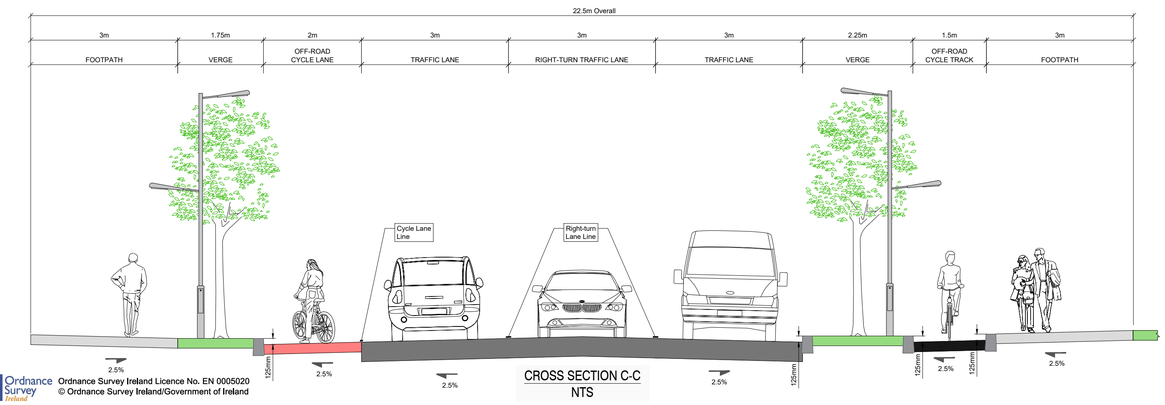
LEGEND:

Surfaces:
- Pavement Carriageway
- Cycle Track Off-Road
- Cycle Lane On-Road
- Footpath
- Shared Area
- Shared Area - High Quality Finish
- Tactile Paving in Controlled Crossing
- Tactile Paving in Uncontrolled Crossing
- Grassed Area
- Filter Drain

Kerbs
- 125mm Upstand Kerb
- 75mm Upstand Kerb
- 0mm Upstand Kerb at Carriageway Level
- 0mm Upstand Kerb at Ramp Level
- Precast Concrete Kerb at Roundabout Over-run Area
- Transition Kerb
- Edging Kerb

Fences
- Proposed Fence
- Existing Fence

Symbols
- Zebra Crossing Belisha Beacon
- Traffic Signals
- New Tree
- Existing Lighting Column to be retained
- Lighting Column Type A + B
- Lighting Column Type C
- Lighting Column Type D
- Road Marking on New Pavement Surface
- Road Marking on Existing Pavement Surface
- Red Line Boundary



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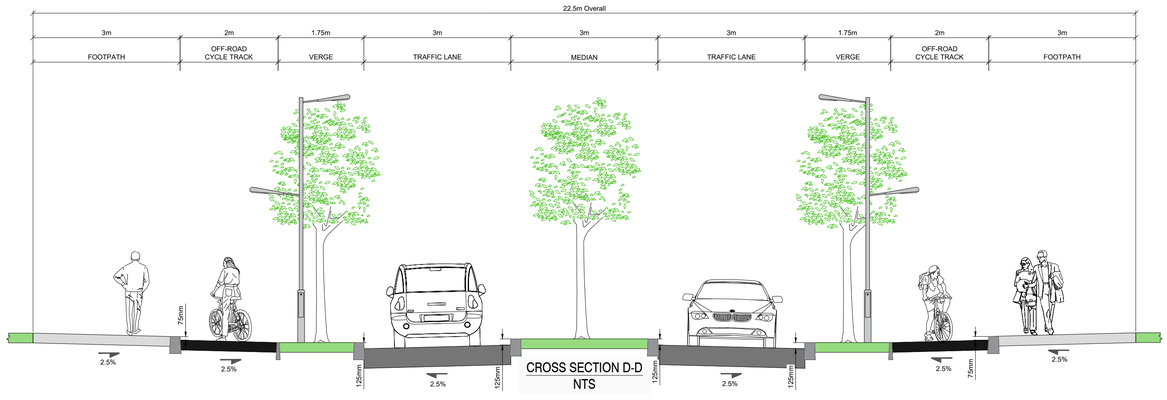

CROSS SECTION D-D
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Client

Comhairle Contae Fhine Gall
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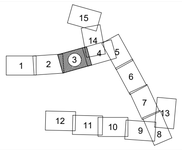
Key Plan



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Project CHURCH FIELDS LINK ROAD & CYCLE NETWORK

Title PART 8 PLANNING GENERAL ARRANGEMENT

File Identifier MDT0875-RPS-00-XX-DR-Z- GA0003

Status S4

Rev P03

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LEGEND:

Surfaces:
- Pavement Carriageway
- Cycle Track Off-Road
- Cycle Lane On-Road
- Footpath
- Shared Area
- Shared Area - High Quality Finish
- Tactile Paving in Controlled Crossing
- Tactile Paving in Uncontrolled Crossing
- Grassed Area
- Filter Drain

Kerbs
- 125mm Upstand Kerb
- 75mm Upstand Kerb
- 0mm Upstand Kerb at Carriageway Level
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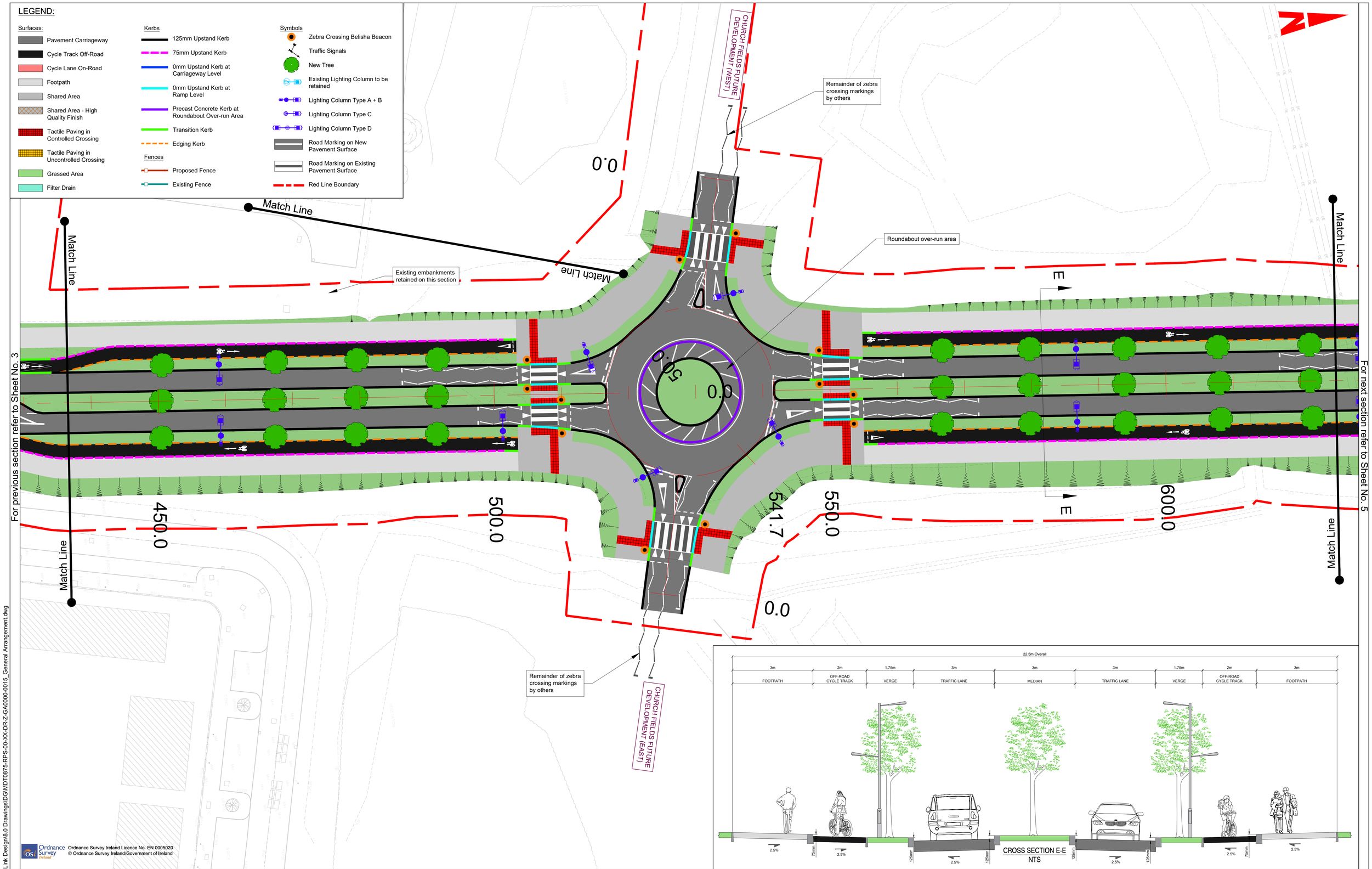
- Transition Kerb
- Edging Kerb

Fences
- Proposed Fence
- Existing Fence

Symbols
- Zebra Crossing Belisha Beacon
- Traffic Signals
- New Tree
- Existing Lighting Column to be retained
- Lighting Column Type A + B
- Lighting Column Type C
- Lighting Column Type D
- Road Marking on New Pavement Surface
- Road Marking on Existing Pavement Surface
- Red Line Boundary



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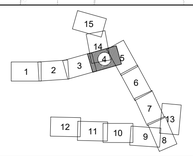
Client

Comhairle Contae Fhine Gall
Fingal County Council

Key Plan



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Project
CHURCH FIELDS LINK ROAD & CYCLE NETWORK

Title
PART 8 PLANNING
GENERAL ARRANGEMENT

File Identifier
MDT0875-RPS-00-XX-DR-Z- GA0004

Status
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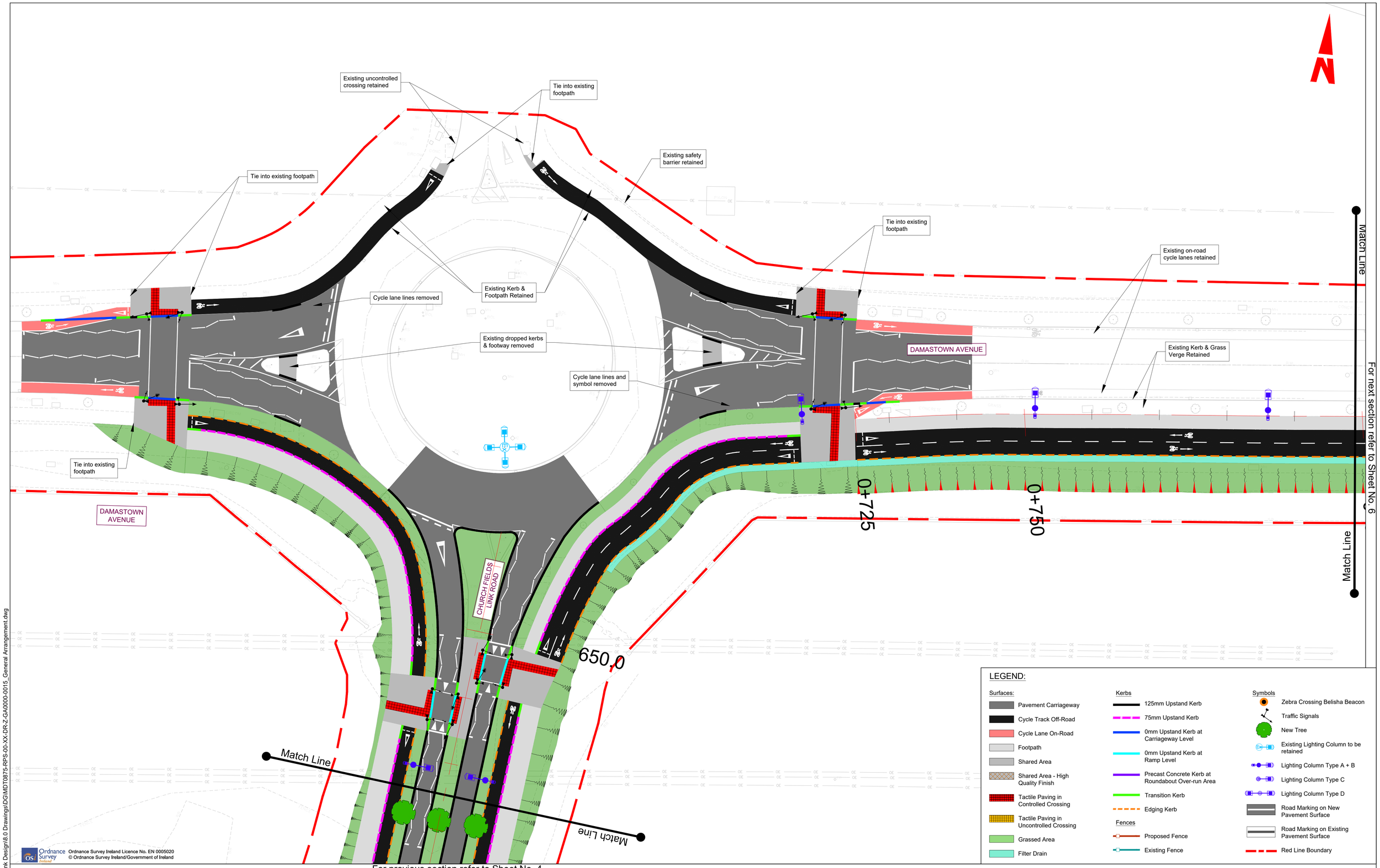

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Client

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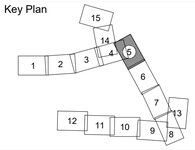
Fingal County Council

Key Plan



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Sheet 5 of 15

Project CHURCH FIELDS LINK ROAD & CYCLE NETWORK

Title PART 8 PLANNING GENERAL ARRANGEMENT

File Identifier MDT0875-RPS-00-XX-DR-Z- GA0005

Status S4

Rev P03

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LEGEND:

Surfaces:
- Pavement Carriageway
- Cycle Track Off-Road
- Cycle Lane On-Road
- Footpath
- Shared Area
- Shared Area - High Quality Finish
- Tactile Paving in Controlled Crossing
- Tactile Paving in Uncontrolled Crossing
- Grassed Area
- Filter Drain

Kerbs
- 125mm Upstand Kerb
- 75mm Upstand Kerb
- 0mm Upstand Kerb at Carriageway Level
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- Lighting Column Type D
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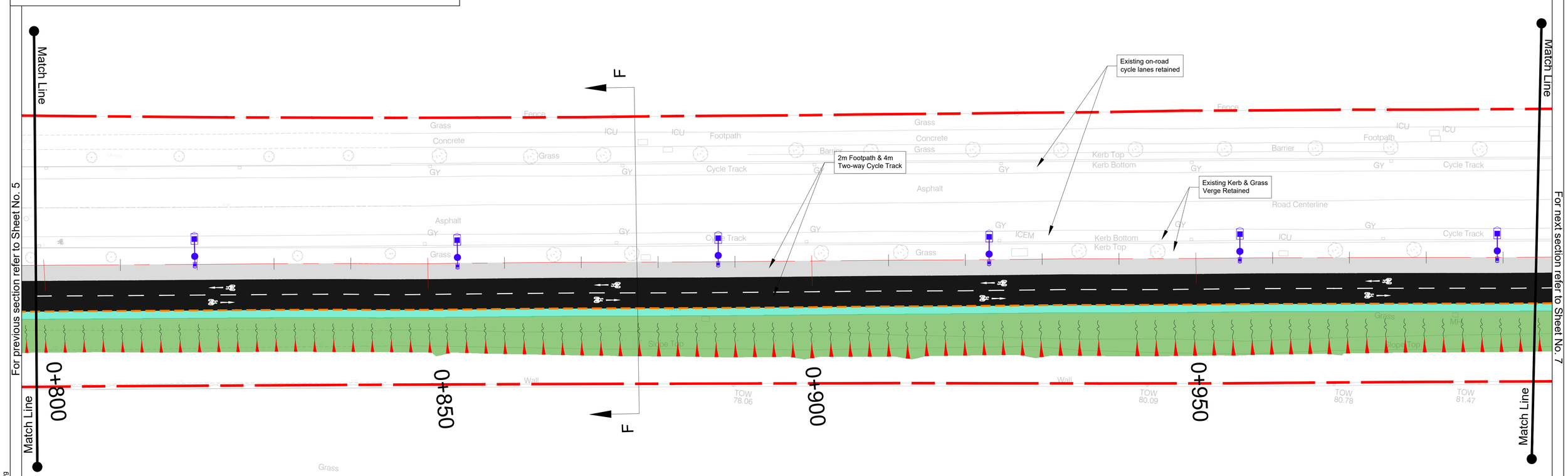
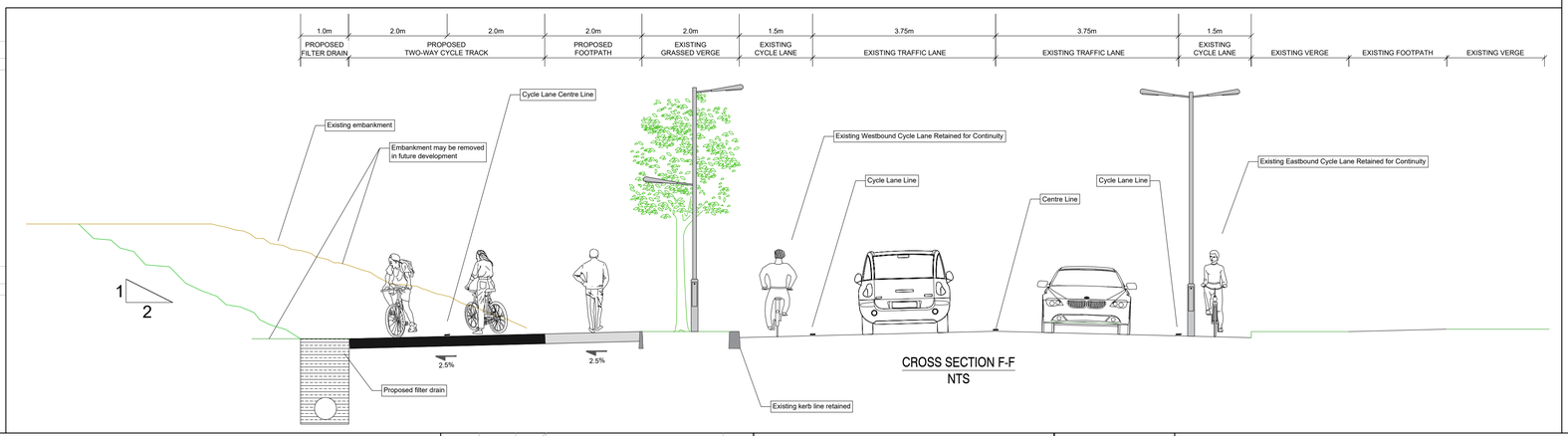
- Road Marking on Existing Pavement Surface
- Red Line Boundary





CROSS SECTION F-F
NTS

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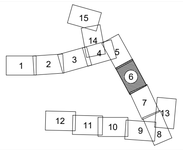
Client

Comhairle Contae Fhine Gall
Fingal County Council

Key Plan



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Rev	Date	Drn / Chk	Amendment / Issue	App
P03	07.02.20	MOD / SF	ISSUED FOR PLANNING	MN
P02	29.01.20	JL / SF	ISSUED FOR PLANNING	MN
P01	29.11.19	MOD / SF	ISSUED FOR PLANNING	MN

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Model File Identifier

Scale
1:250 @ A1
1:500 @ A3

Created on
NOV. '19

Sheet
6 of 15

Project
CHURCH FIELDS LINK ROAD & CYCLE NETWORK

Title
PART 8 PLANNING
GENERAL ARRANGEMENT

File Identifier
MDT0875-RPS-00-XX-DR-Z- GA0006

Status
S4

Rev
P03

R:\MDT0875 - Church Fields Rd Link Design\8.0 Drawings\DG\MDT0875-RPS-00-XX-DR-Z-GA0000-0015_General Arrangement.dwg

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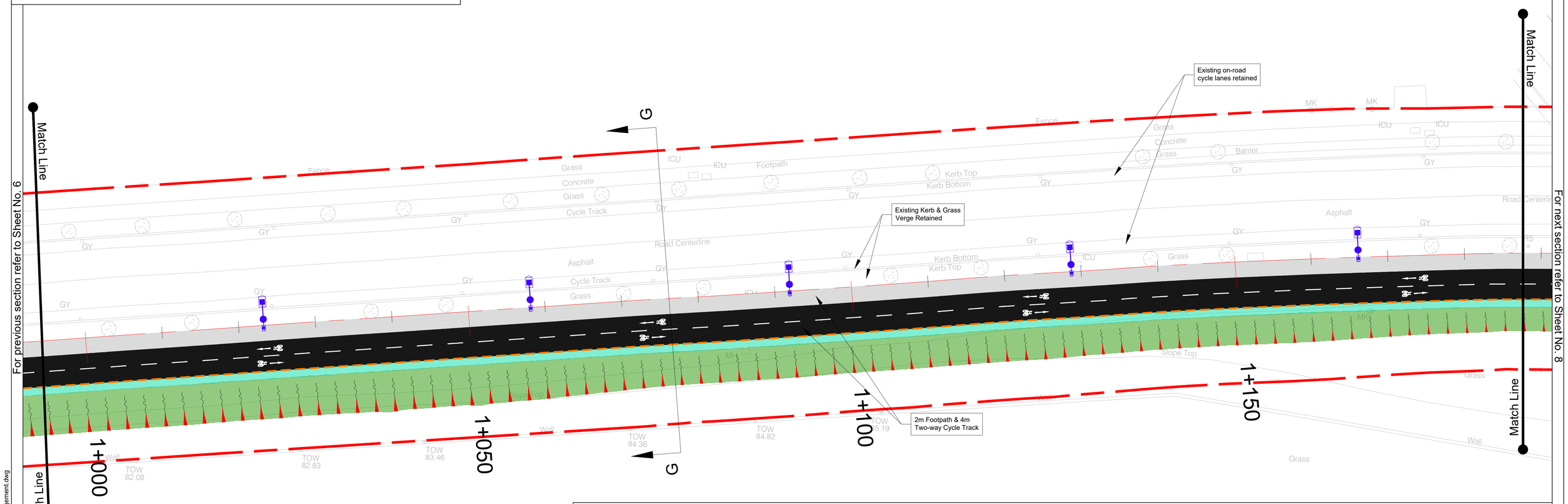
LEGEND:

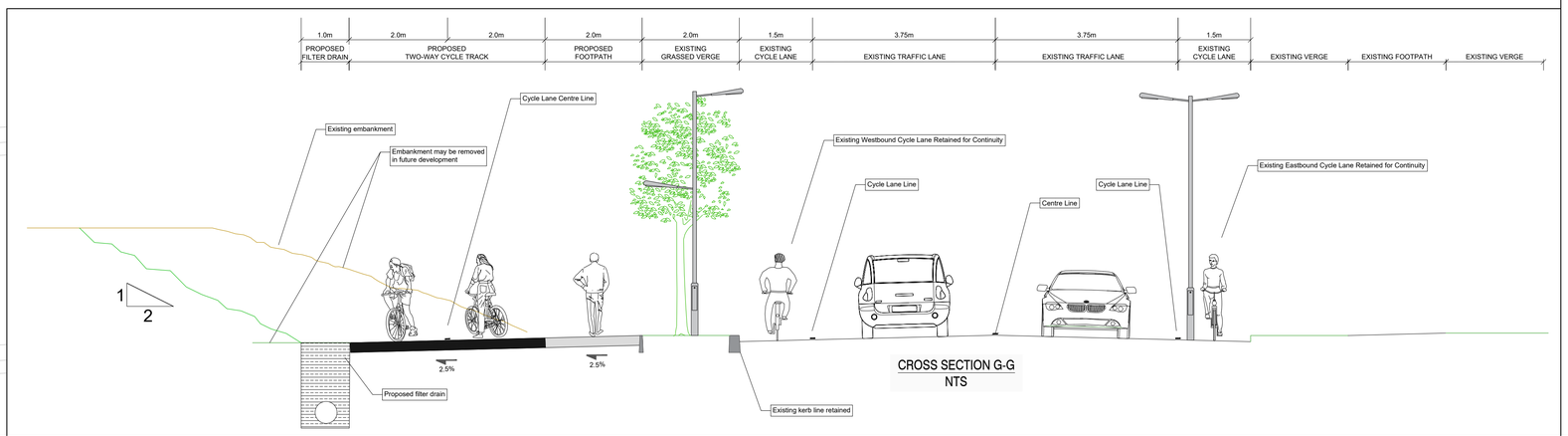
Surfaces:
- Pavement Carriageway
- Cycle Track Off-Road
- Cycle Lane On-Road
- Footpath
- Shared Area
- Shared Area - High Quality Finish
- Tactile Paving in Controlled Crossing
- Tactile Paving in Uncontrolled Crossing
- Grassed Area
- Filter Drain

Kerbs
- 125mm Upstand Kerb
- 75mm Upstand Kerb
- 0mm Upstand Kerb at Carriageway Level
- 0mm Upstand Kerb at Ramp Level
- Precast Concrete Kerb at Roundabout Over-run Area
- Transition Kerb
- Edging Kerb

Fences
- Proposed Fence
- Existing Fence

Symbols
- Zebra Crossing Belisha Beacon
- Traffic Signals
- New Tree
- Existing Lighting Column to be retained
- Lighting Column Type A + B
- Lighting Column Type C
- Lighting Column Type D
- Road Marking on New Pavement Surface
- Road Marking on Existing Pavement Surface
- Red Line Boundary





CROSS SECTION G-G
NTS

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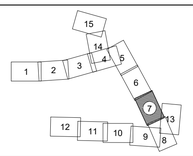
Client

Comhairle Contae Fhine Gall
Fingal County Council

Key Plan



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Scale: 1:250 @ A1, 1:500 @ A3

Created on: NOV. '19

Sheet: 7 of 15

Project: CHURCH FIELDS LINK ROAD & CYCLE NETWORK

Title: PART 8 PLANNING GENERAL ARRANGEMENT

File Identifier: MDT0875-RPS-00-XX-DR-Z- GA0007

Status: S4

Rev: P03

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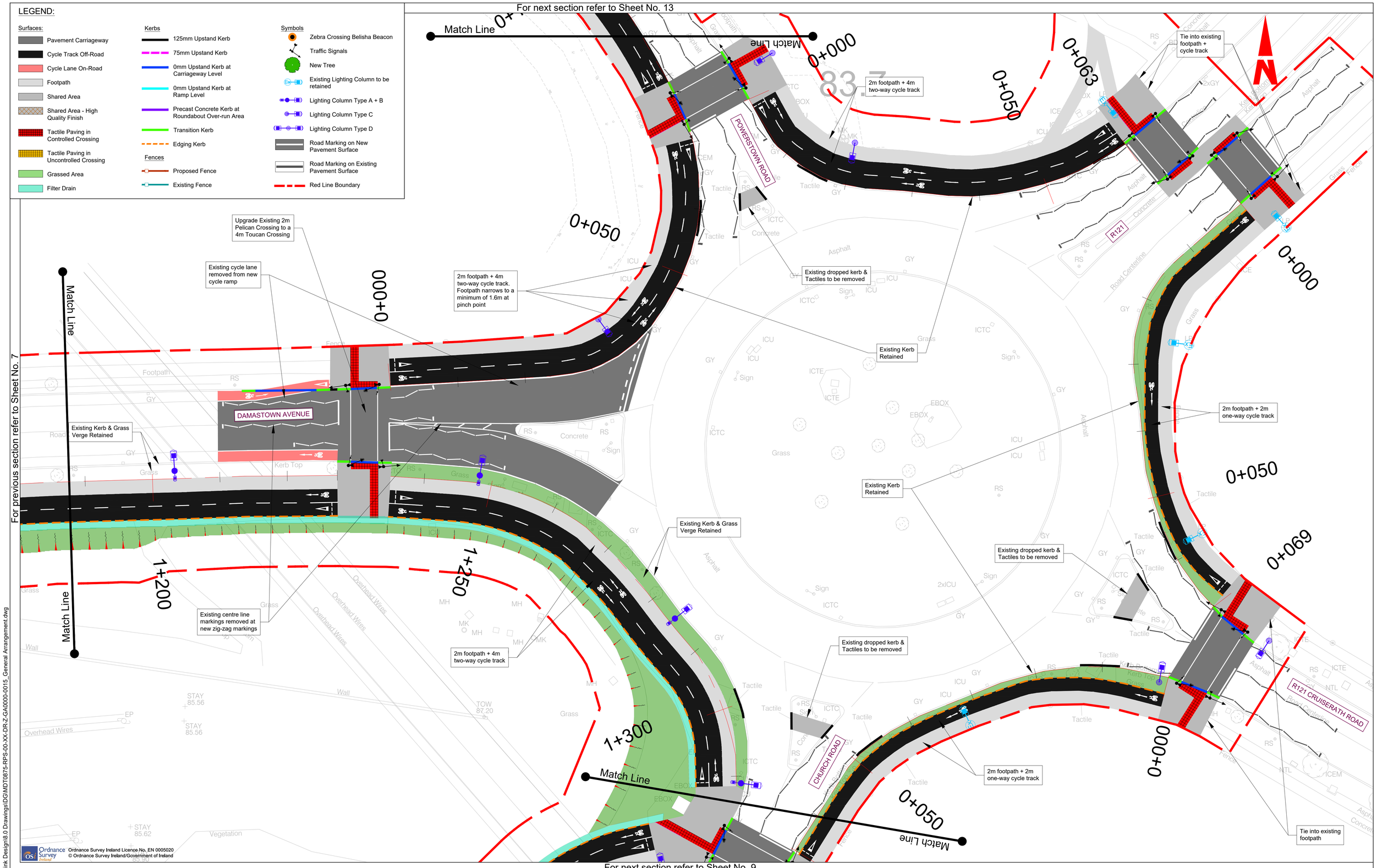
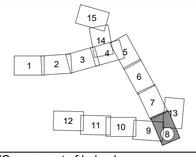


Client

Comhairle Contae Fhine Gall
Fingal County Council

Key Plan



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Model File Identifier

Scale	Project
1:250 @ A1 1:500 @ A3	CHURCH FIELDS LINK ROAD & CYCLE NETWORK
Created on: NOV. '19	Title: PART 8 PLANNING GENERAL ARRANGEMENT
Sheet: 8 of 15	

File Identifier	Status	Rev
MDT0875-RPS-00-XX-DR-Z- GA0008	S4	P03

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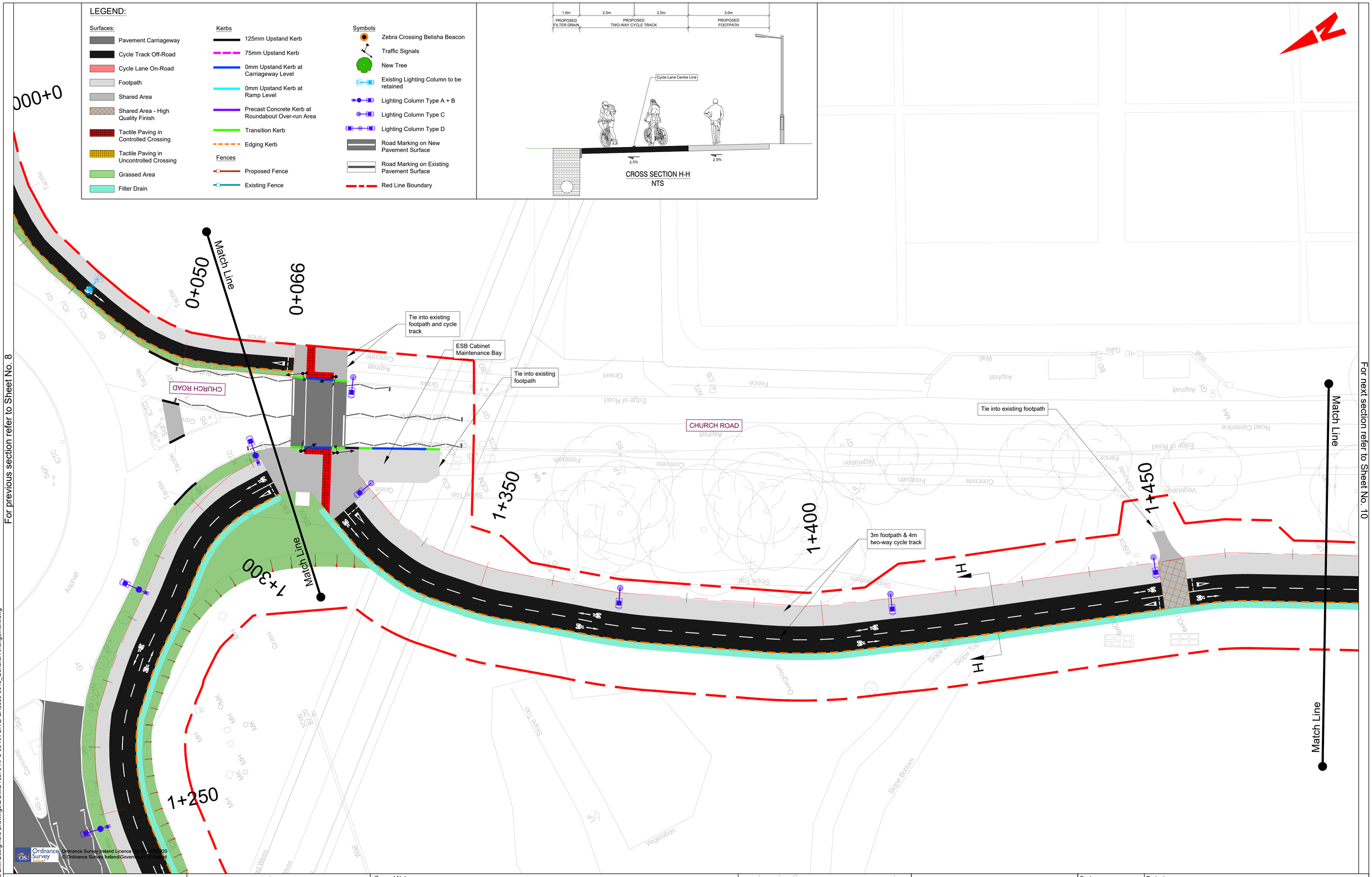


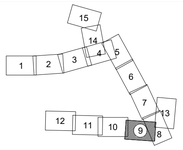
For previous section refer to Sheet No. 8

For next section refer to Sheet No. 10

Client

Comhairle Contae Fhine Gall
Fingal County Council

Key Plan



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Model File Identifier

Scale: 1:250 @ A1, 1:500 @ A3

Created on: NOV. '19

Sheet: 9 of 15

Project: CHURCH FIELDS LINK ROAD & CYCLE NETWORK

Title: PART 8 PLANNING GENERAL ARRANGEMENT

File Identifier: MDT0875-RPS-00-XX-DR-Z- GA0009

Status: S4

Rev: P03

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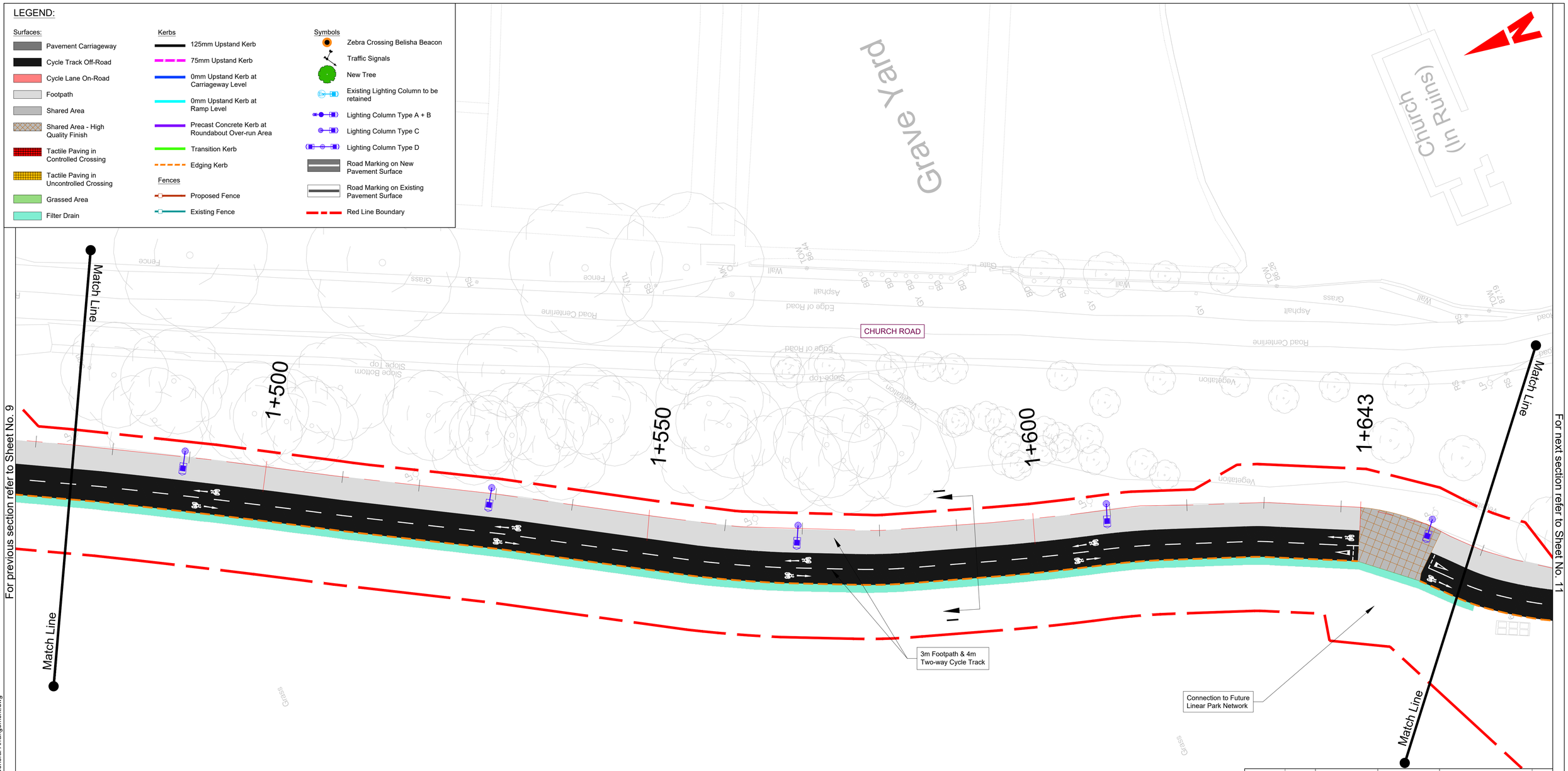
LEGEND:

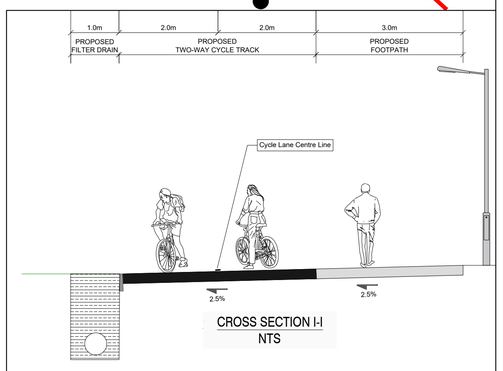
Surfaces:
- Pavement Carriageway
- Cycle Track Off-Road
- Cycle Lane On-Road
- Footpath
- Shared Area
- Shared Area - High Quality Finish
- Tactile Paving in Controlled Crossing
- Tactile Paving in Uncontrolled Crossing
- Grassed Area
- Filter Drain

Kerbs
- 125mm Upstand Kerb
- 75mm Upstand Kerb
- 0mm Upstand Kerb at Carriageway Level
- 0mm Upstand Kerb at Ramp Level
- Precast Concrete Kerb at Roundabout Over-run Area
- Transition Kerb
- Edging Kerb

Fences
- Proposed Fence
- Existing Fence

Symbols
- Zebra Crossing Belisha Beacon
- Traffic Signals
- New Tree
- Existing Lighting Column to be retained
- Lighting Column Type A + B
- Lighting Column Type C
- Lighting Column Type D
- Road Marking on New Pavement Surface
- Road Marking on Existing Pavement Surface
- Red Line Boundary





CROSS SECTION I-I
NTS

For previous section refer to Sheet No. 9

For next section refer to Sheet No. 11

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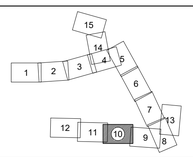
Client

Comhairle Contae Fhine Gall
Fingal County Council

Key Plan



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Rev	Date	Drn Chk	Amendment / Issue	App
P03	07.02.20	MOD SF	ISSUED FOR PLANNING	MN
P02	29.01.20	JI SF	ISSUED FOR PLANNING	MN
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Model File Identifier

Scale
1:250 @ A1
1:500 @ A3

Created on
NOV. '19

Sheet
10 of 15

Project
CHURCH FIELDS LINK ROAD & CYCLE NETWORK

Title
PART 8 PLANNING
GENERAL ARRANGEMENT

File Identifier
MDT0875-RPS-00-XX-DR-Z- GA0010

Status
S4

Rev
P03

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LEGEND:

Surfaces:
- Pavement Carriageway
- Cycle Track Off-Road
- Cycle Lane On-Road
- Footpath
- Shared Area
- Shared Area - High Quality Finish
- Tactile Paving in Controlled Crossing
- Tactile Paving in Uncontrolled Crossing
- Grassed Area
- Filter Drain

Kerbs
- 125mm Upstand Kerb
- 75mm Upstand Kerb
- 0mm Upstand Kerb at Carriageway Level
- 0mm Upstand Kerb at Ramp Level
- Precast Concrete Kerb at Roundabout Over-run Area
- Transition Kerb
- Edging Kerb

Fences
- Proposed Fence
- Existing Fence

Symbols
- Zebra Crossing Belisha Beacon
- Traffic Signals
- New Tree
- Existing Lighting Column to be retained
- Lighting Column Type A + B
- Lighting Column Type C
- Lighting Column Type D
- Road Marking on New Pavement Surface
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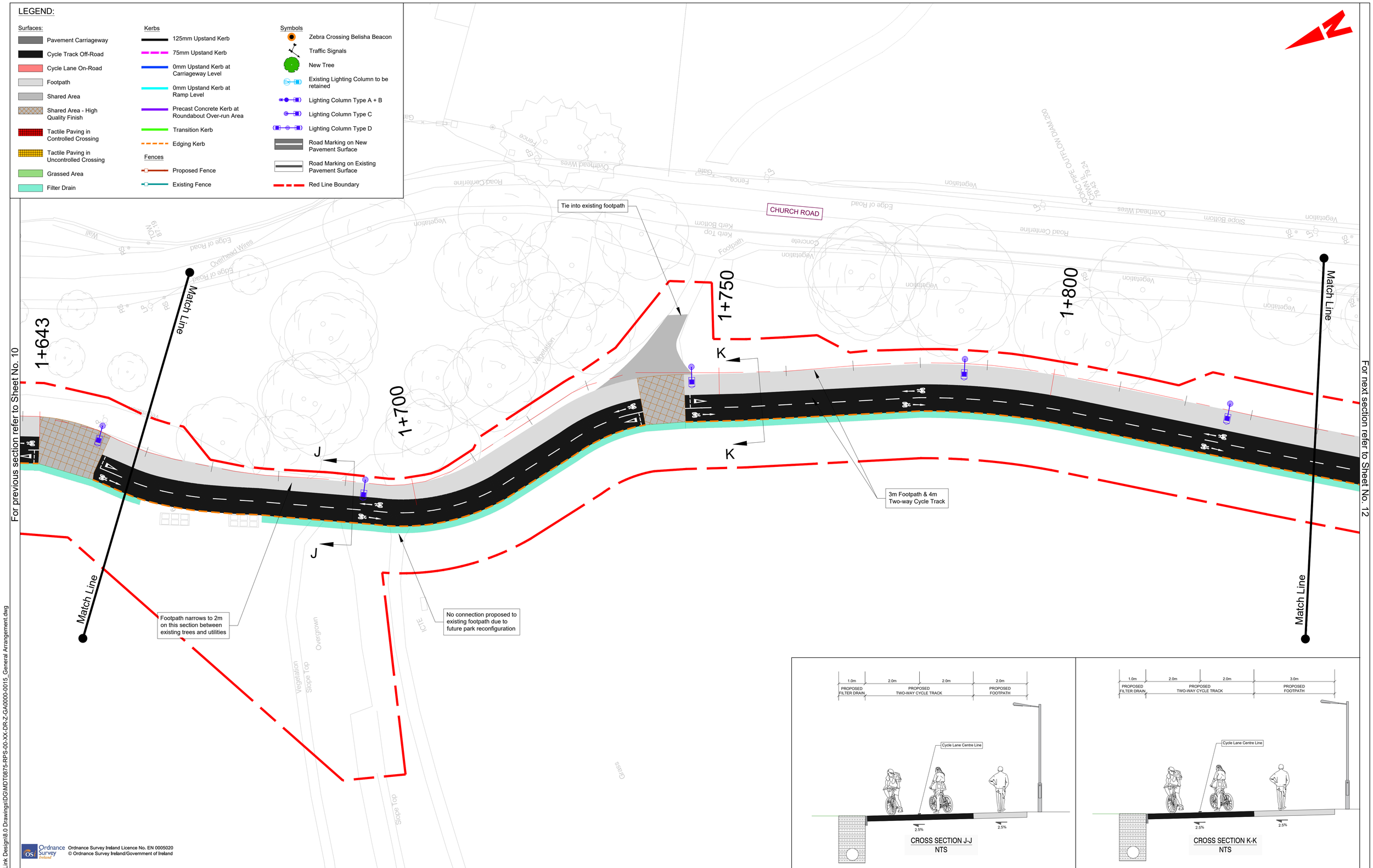
- Red Line Boundary



CROSS SECTION J-J
NTS

CROSS SECTION K-K
NTS

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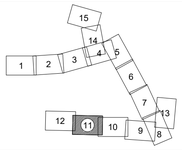
Client

Comhairle Contae Fhine Gall
Fingal County Council

Key Plan



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Model File Identifier

Scale
1:250 @ A1
1:500 @ A3

Created on
NOV. '19

Sheet
11 of 15

Project
CHURCH FIELDS LINK ROAD & CYCLE NETWORK

Title
PART 8 PLANNING
GENERAL ARRANGEMENT

File Identifier
MDT0875-RPS-00-XX-DR-Z- GA0011

Status
S4

Rev
P03

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For previous section refer to Sheet No. 11

Match Line

1+850

1+900

1+950

1+989

L

L

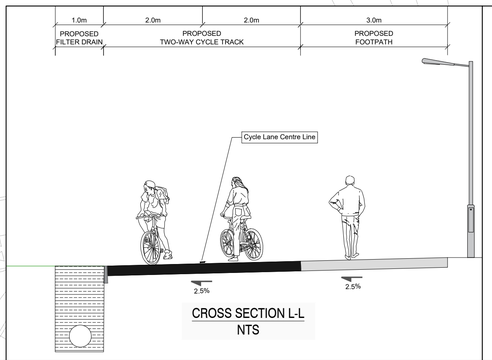
3m Footpath & 4m
Two-way Cycle Track

Tie into existing footpath

Tie into existing footpath

CHURCH ROAD

BM 70.39



CROSS SECTION L-L
NTS

LEGEND:

Surfaces:

- Pavement Carriageway
- Cycle Track Off-Road
- Cycle Lane On-Road
- Footpath
- Shared Area
- Shared Area - High Quality Finish
- Tactile Paving in Controlled Crossing
- Tactile Paving in Uncontrolled Crossing
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Kerbs

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- Red Line Boundary

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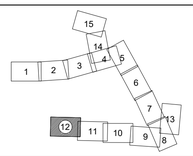
Client

Comhairle Contae Fhine Gall
Fingal County Council

Key Plan



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Model File Identifier

Scale
1:250 @ A1
1:500 @ A3

Created on
NOV. '19

Sheet
12 of 15

Project
CHURCH FIELDS LINK ROAD & CYCLE NETWORK

Title
PART 8 PLANNING
GENERAL ARRANGEMENT

File Identifier
MDT0875-RPS-00-XX-DR-Z- GA0012

Status
S4

Rev
P03

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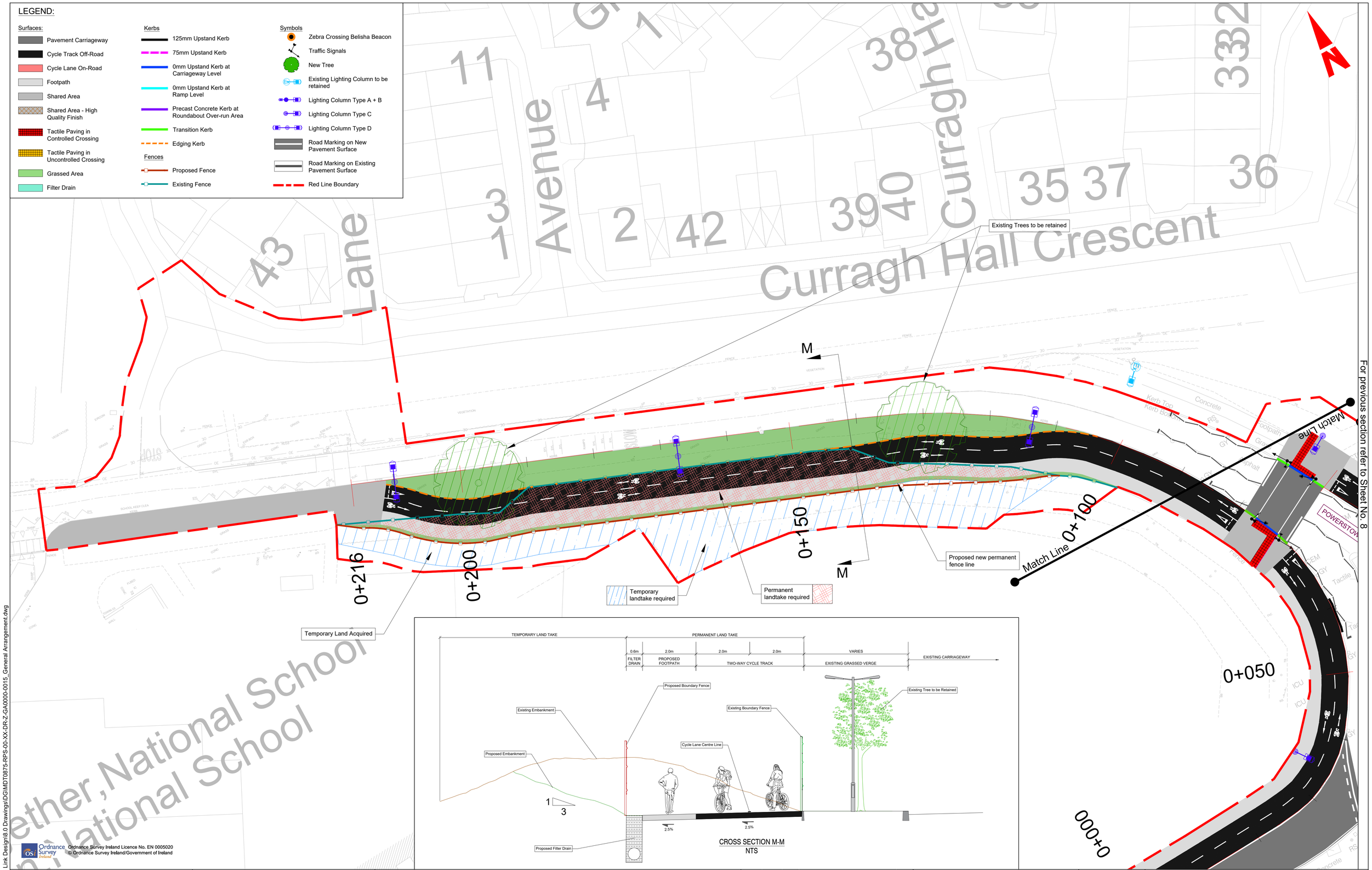
LEGEND:

Surfaces:
- Pavement Carriageway
- Cycle Track Off-Road
- Cycle Lane On-Road
- Footpath
- Shared Area
- Shared Area - High Quality Finish
- Tactile Paving in Controlled Crossing
- Tactile Paving in Uncontrolled Crossing
- Grassed Area
- Filter Drain

Kerbs
- 125mm Upstand Kerb
- 75mm Upstand Kerb
- 0mm Upstand Kerb at Carriageway Level
- 0mm Upstand Kerb at Ramp Level
- Precast Concrete Kerb at Roundabout Over-run Area
- Transition Kerb
- Edging Kerb

Fences
- Proposed Fence
- Existing Fence

Symbols
- Zebra Crossing Belisha Beacon
- Traffic Signals
- New Tree
- Existing Lighting Column to be retained
- Lighting Column Type A + B
- Lighting Column Type C
- Lighting Column Type D
- Road Marking on New Pavement Surface
- Road Marking on Existing Pavement Surface
- Red Line Boundary



For previous section refer to Sheet No. 8

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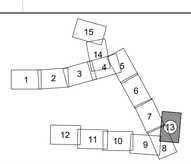
Client

Comhairle Contae Fhine Gall
Fingal County Council

Key Plan



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(v) All Levels refer to Ordnance Survey Datum, Malin Head.

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P03	07.02.20	MoD / SF	ISSUED FOR PLANNING	MN
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Model File Identifier

Scale 1:250 @ A1 1:500 @ A3

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Sheet 13 of 15

Project CHURCH FIELDS LINK ROAD & CYCLE NETWORK

Title PART 8 PLANNING GENERAL ARRANGEMENT

File Identifier MDT0875-RPS-00-XX-DR-Z- GA0013

Status S4

Rev P03

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For next section refer to Sheet No. 15

Match Line

STAY 66.30

STAY 66.55

Vegetation

Slope Bottom

MH

Asphalt

Slope Top

CHURCH FIELDS FUTURE DEVELOPMENT (WEST)

0.0

Vegetation

Slope Top

Slope Top

Slope Bottom

Overgrown

Vegetation

Grass

Overgrown

Vegetation

AREA UNDER CONSTRUCTION

Match Line

Match Line

Match Line

For previous section refer to Sheet No. 4

LEGEND:

Surfaces:

- Pavement Carriageway
- Cycle Track Off-Road
- Cycle Lane On-Road
- Footpath
- Shared Area
- Shared Area - High Quality Finish
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- Transition Kerb
- Edging Kerb

Fences

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- Existing Fence

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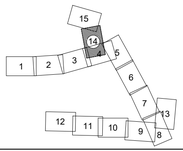
- Road Marking on Existing Pavement Surface
- Red Line Boundary

Client

Comhairle Contae Fhine Gall
Fingal County Council

Key Plan



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Scale
1:250 @ A1
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Sheet
14 of 15

Project
CHURCH FIELDS LINK ROAD & CYCLE NETWORK

Title
PART 8 PLANNING
GENERAL ARRANGEMENT

File Identifier
MDT0875-RPS-00-XX-DR-Z- GA0014

Status
S4

Rev
P03

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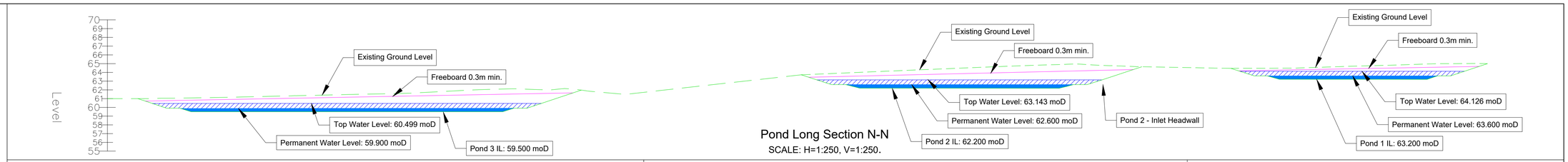

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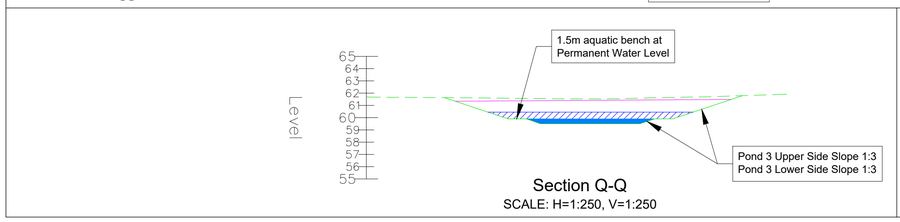

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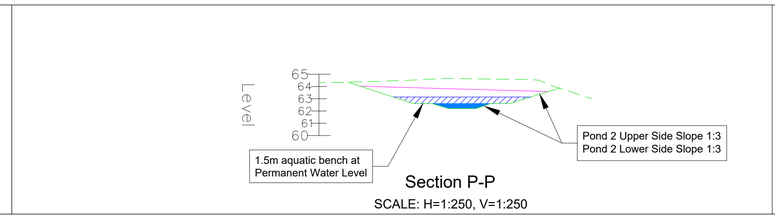

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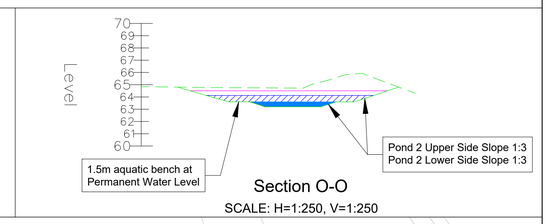

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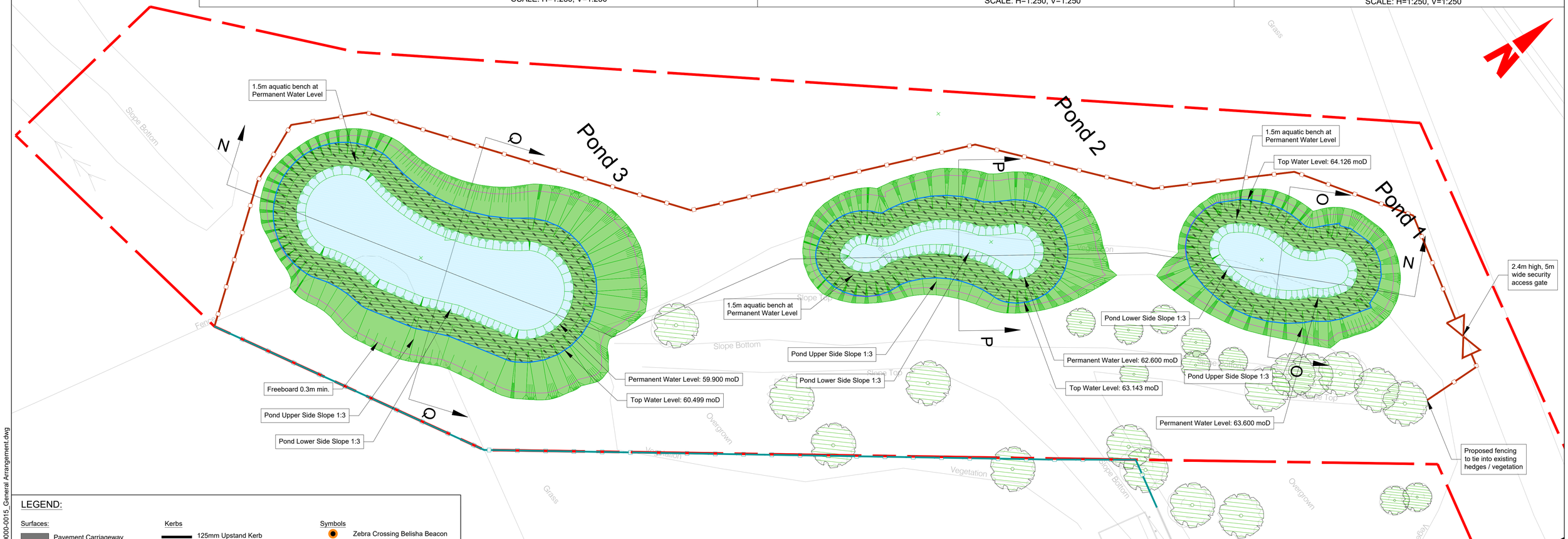

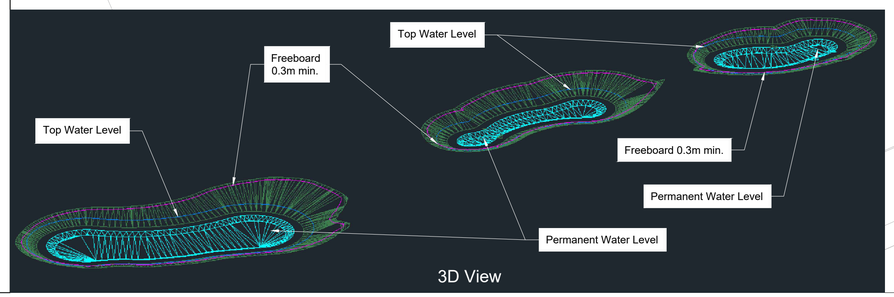

LEGEND:

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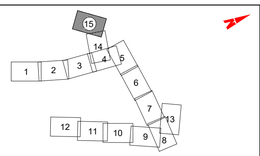
- Road Marking on Existing Pavement Surface
- Red Line Boundary

For previous section refer to Sheet No. 14

Client
Comhairle Contae Fhine Gall
Fingal County Council



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P03	07.02.20	MOD / SF	ISSUED FOR PLANNING	MN
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Model File Identifier

Scale 1:250 @ A1, 1:500 @ A3
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Sheet 15 of 15

Project: CHURCH FIELDS LINK ROAD & CYCLE NETWORK
Title: PART 8 PLANNING GENERAL ARRANGEMENT

File Identifier: MDT0875-RPS-00-XX-DR-Z- GA0015
Status: S4
Rev: P03

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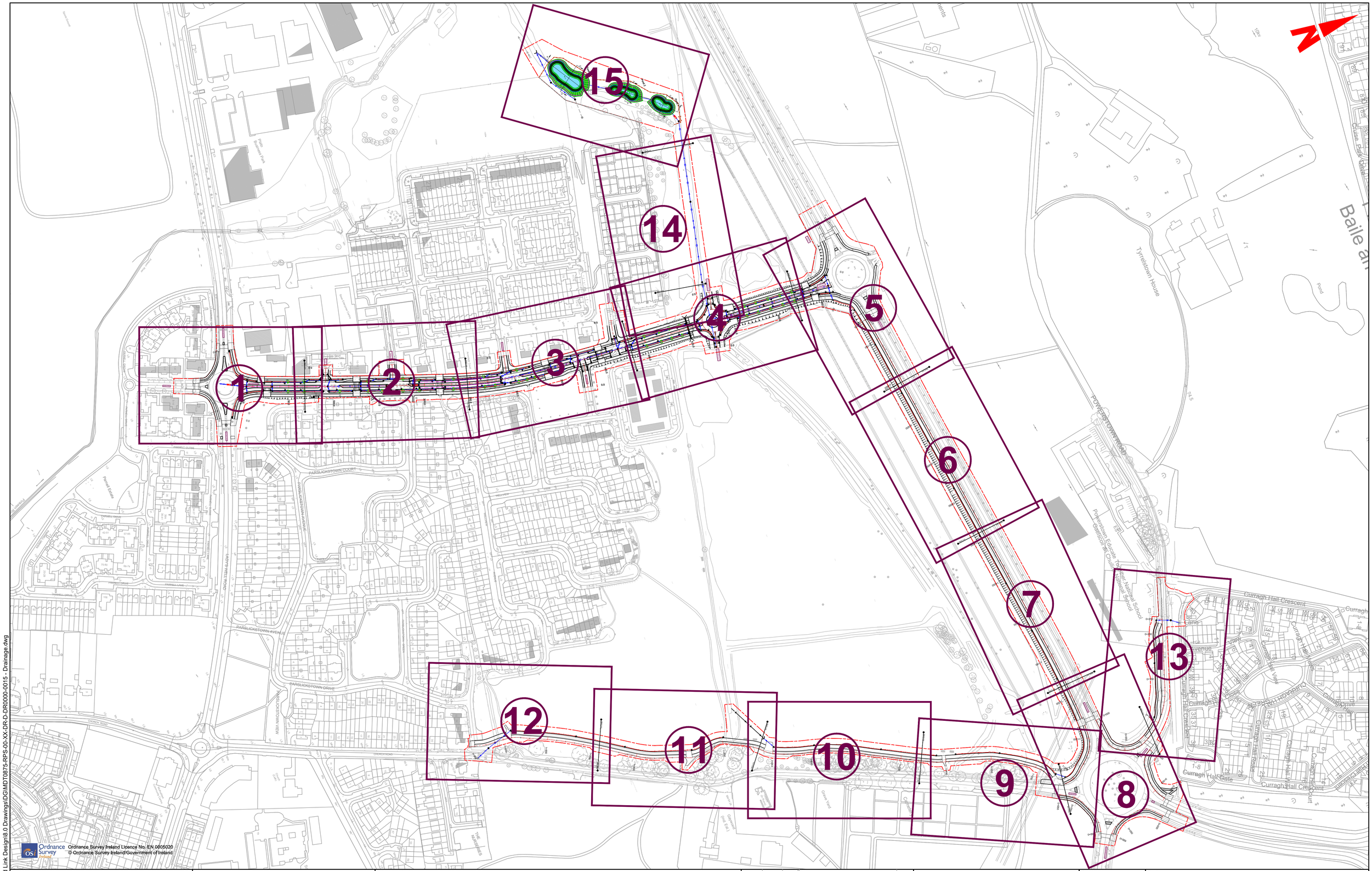
Appendix B
Proposed Outline Drainage Design Drawings



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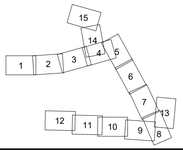
Client

Comhairle Contae Fhine Gall
Fingal County Council

Key Plan



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Model File Identifier

Scale: NTS @ A1, NTS @ A3

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Sheet: 1 of 1

Project: CHURCH FIELDS LINK ROAD & CYCLE NETWORK

Title: OUTLINE DRAINAGE LAYOUT

File Identifier: MDT0875-RPS-00-XX-DR-D-DR0000

Status: S4

Rev: P02

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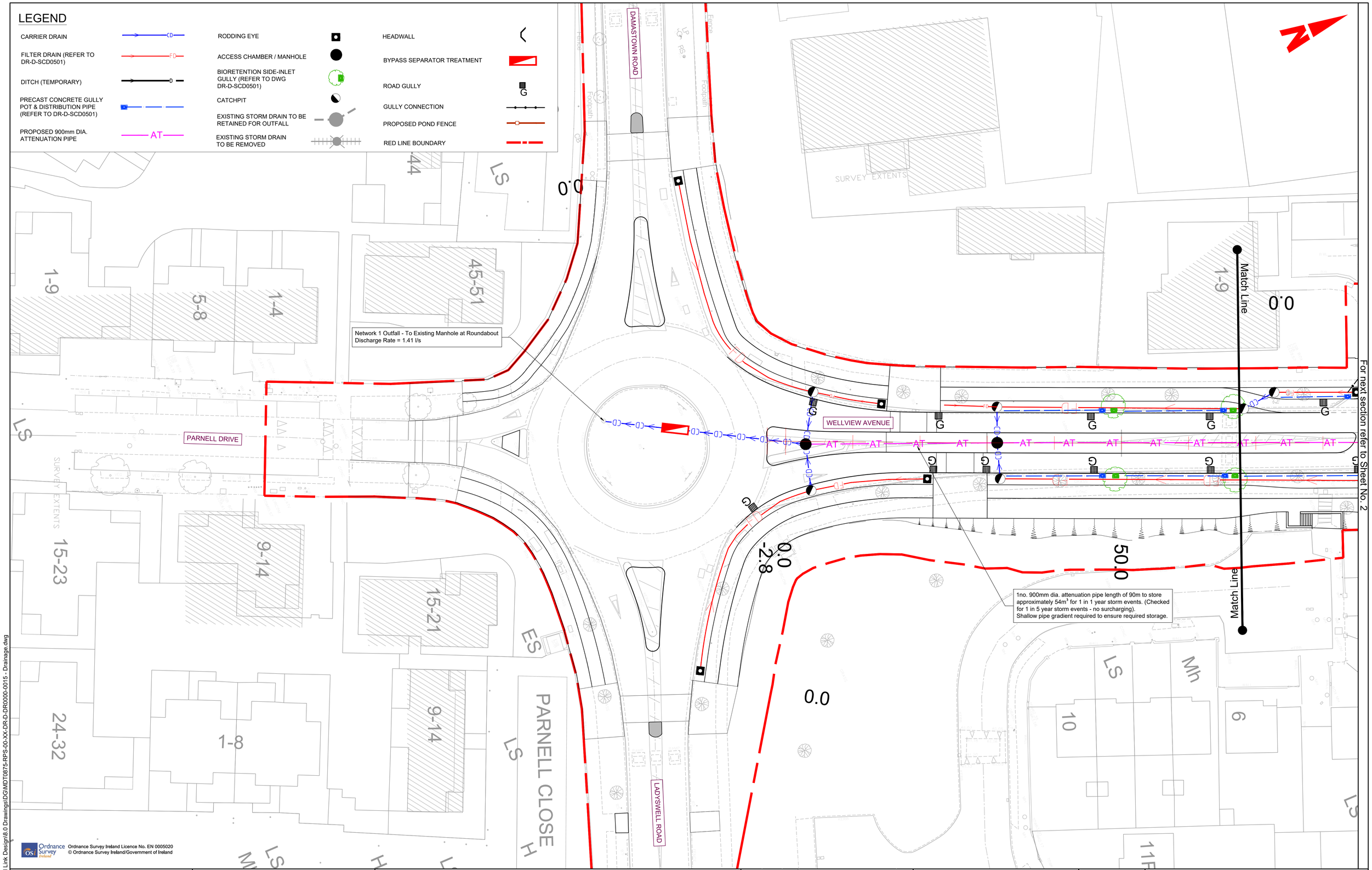
LEGEND

CARRIER DRAIN	
FILTER DRAIN (REFER TO DR-D-SCD0501)	
DITCH (TEMPORARY)	
PRECAST CONCRETE GULLY POT & DISTRIBUTION PIPE (REFER TO DR-D-SCD0501)	
PROPOSED 900mm DIA. ATTENUATION PIPE	AT
RODDING EYE	
ACCESS CHAMBER / MANHOLE	
BIORETENTION SIDE-INLET GULLY (REFER TO DWG DR-D-SCD0501)	
CATCHPIT	
EXISTING STORM DRAIN TO BE RETAINED FOR OUTFALL	
EXISTING STORM DRAIN TO BE REMOVED	
HEADWALL	
BYPASS SEPARATOR TREATMENT	
ROAD GULLY	G
GULLY CONNECTION	
PROPOSED POND FENCE	
RED LINE BOUNDARY	



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Client

Comhairle Contae Fhine Gall
Fingal County Council

Key Plan

General Notes

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Sheet 1 of 15

Project CHURCH FIELDS LINK ROAD & CYCLE NETWORK

Title OUTLINE DRAINAGE LAYOUT

File Identifier MDT0875-RPS-00-XX-DR-D-DR0001

Status S4

Rev P02

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LEGEND

CARRIER DRAIN	CD
FILTER DRAIN (REFER TO DR-D-SCD0501)	FD
DITCH (TEMPORARY)	D
PRECAST CONCRETE GULLY POT & DISTRIBUTION PIPE (REFER TO DR-D-SCD0501)	
PROPOSED 900mm DIA. ATTENUATION PIPE	AT
RODDING EYE	
ACCESS CHAMBER / MANHOLE	
BIORETENTION SIDE-INLET GULLY (REFER TO DWG DR-D-SCD0501)	
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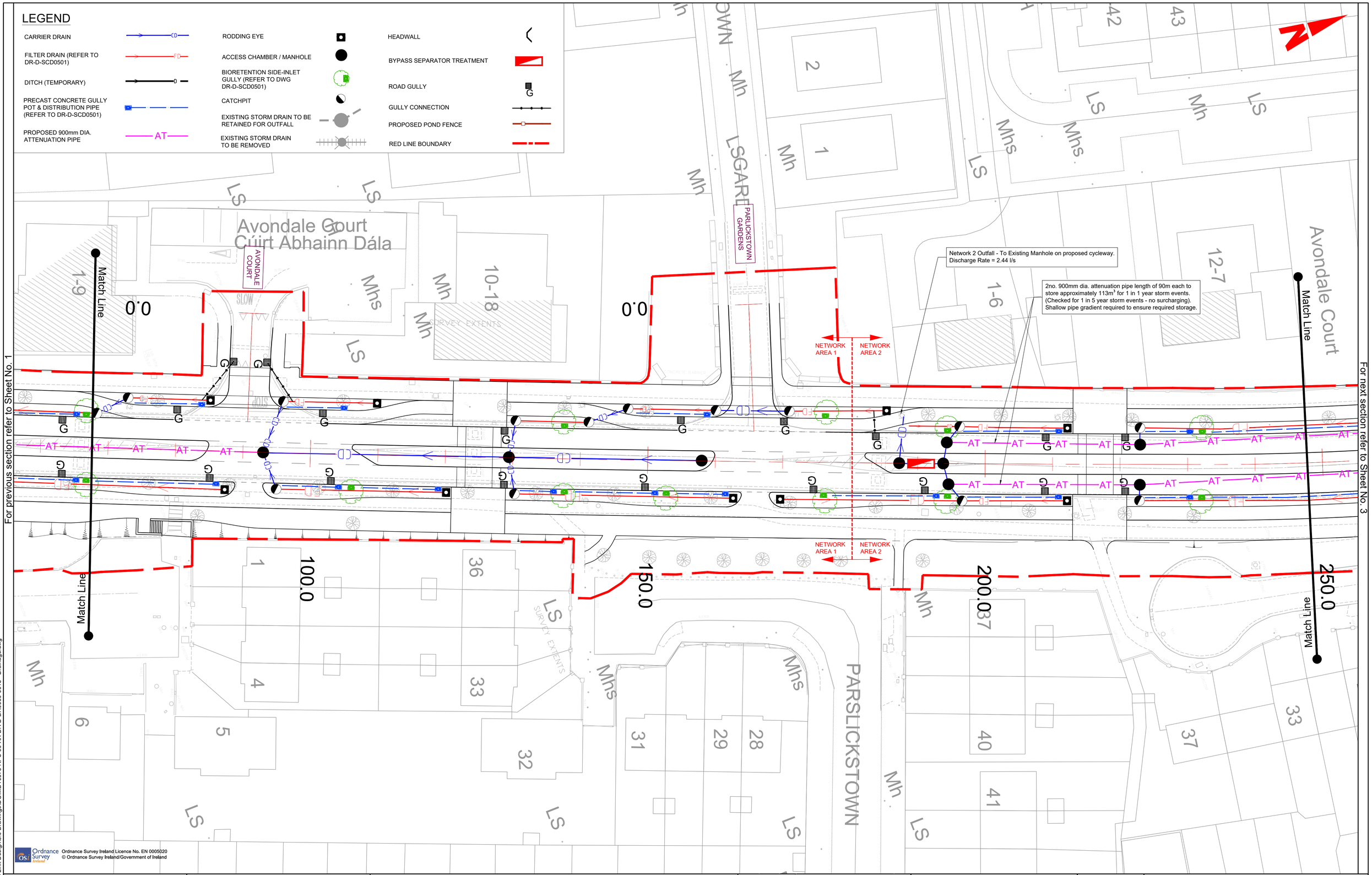
EXISTING STORM DRAIN TO BE REMOVED	
HEADWALL	
BYPASS SEPARATOR TREATMENT	
ROAD GULLY	G
GULLY CONNECTION	
PROPOSED POND FENCE	
RED LINE BOUNDARY	



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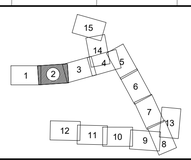
Client

Comhairle Contae Fhine Gall
Fingal County Council

Key Plan



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Model File Identifier

Scale 1:250 @ A1 1:500 @ A3

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Sheet 2 of 15

Project CHURCH FIELDS LINK ROAD & CYCLE NETWORK

Title OUTLINE DRAINAGE LAYOUT

File Identifier MDT0875-RPS-00-XX-DR-D-DR0002

Status S4

Rev P02

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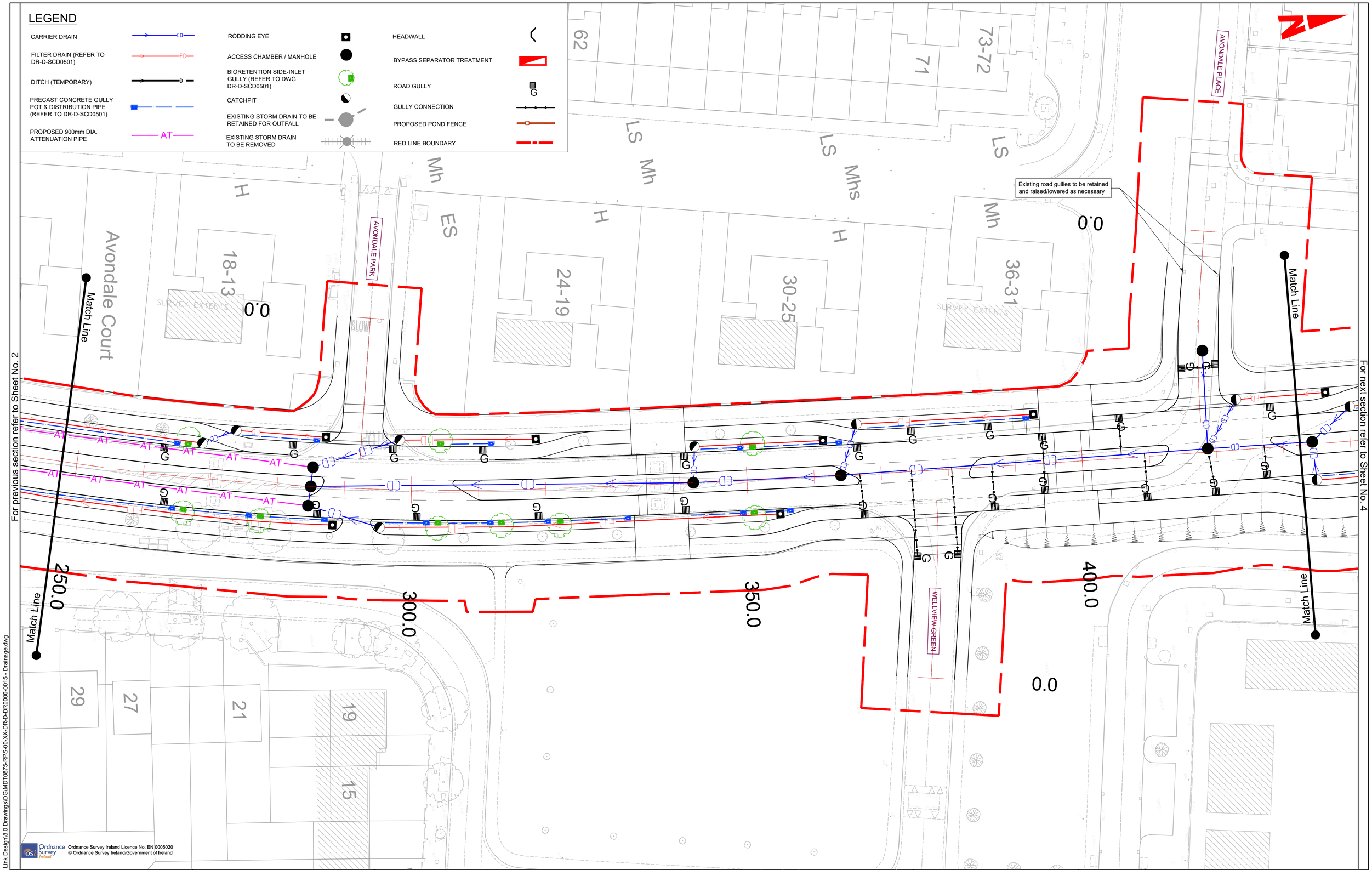


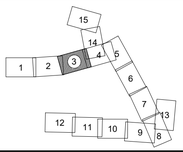
For previous section refer to Sheet No. 2

For next section refer to Sheet No. 4

Client

Comhairle Contae Fhine Gall
Fingal County Council

Key Plan



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Model File Identifier

Scale: 1:250 @ A1, 1:500 @ A3

Created on: NOV. '19

Sheet: 3 of 15

Project: CHURCH FIELDS LINK ROAD & CYCLE NETWORK

Title: OUTLINE DRAINAGE LAYOUT

File Identifier: MDT0875-RPS-00-XX-DR-D-DR0003

Status: S4

Rev: P02

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For next section refer to Sheet No. 16

For previous section refer to Sheet No. 3

For next section refer to Sheet No. 5

LEGEND

CARRIER DRAIN	
FILTER DRAIN (REFER TO DR-D-SCD0501)	
DITCH (TEMPORARY)	
PRECAST CONCRETE GULLY POT & DISTRIBUTION PIPE (REFER TO DR-D-SCD0501)	
PROPOSED 900mm DIA. ATTENUATION PIPE	AT
RODDING EYE	
ACCESS CHAMBER / MANHOLE	
BIORETENTION SIDE-INLET GULLY (REFER TO DWG DR-D-SCD0501)	
CATCHPIT	
EXISTING STORM DRAIN TO BE RETAINED FOR OUTFALL	
EXISTING STORM DRAIN TO BE REMOVED	
HEADWALL	
BYPASS SEPARATOR TREATMENT	
ROAD GULLY	
GULLY CONNECTION	
PROPOSED POND FENCE	
RED LINE BOUNDARY	

Match Line

Match Line

Match Line

Match Line

Match Line

CHURCH FIELDS FUTURE DEVELOPMENT (WEST)

CHURCH FIELDS FUTURE DEVELOPMENT (EAST)

450.0

500.0

541.7

550.0

600.0

0.0

900mm dia. culvert for future linear park swale crossing.

NETWORK AREA 1

NETWORK AREA 2

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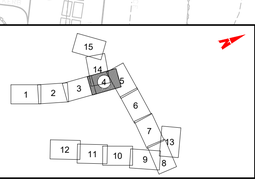
Client

Comhairle Contae Fhine Gall
Fingal County Council

Key Plan



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Scale
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1:500 @ A3

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NOV. '19

Sheet
4 of 15

Project
CHURCH FIELDS LINK ROAD & CYCLE NETWORK

Title
OUTLINE DRAINAGE LAYOUT

File Identifier
MDT0875-RPS-00-XX-DR-D-DR0004

Status
S4

Rev
P02

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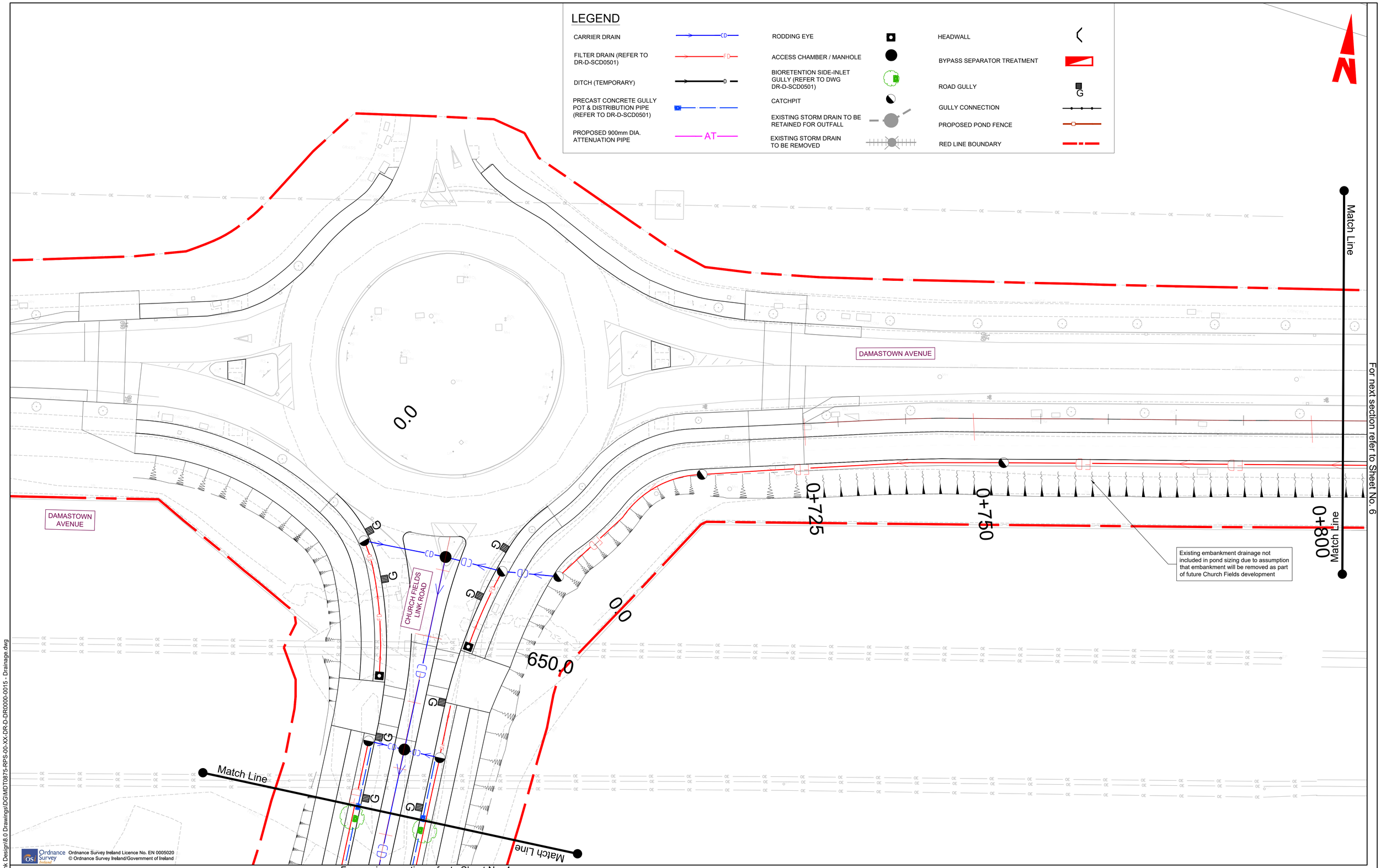
LEGEND

CARRIER DRAIN	CD
FILTER DRAIN (REFER TO DR-D-SCD0501)	FD
DITCH (TEMPORARY)	D
PRECAST CONCRETE GULLY POT & DISTRIBUTION PIPE (REFER TO DR-D-SCD0501)	
PROPOSED 900mm DIA. ATTENUATION PIPE	AT
RODDING EYE	
ACCESS CHAMBER / MANHOLE	
BIORETENTION SIDE-INLET GULLY (REFER TO DWG DR-D-SCD0501)	
CATCHPIT	
EXISTING STORM DRAIN TO BE RETAINED FOR OUTFALL	
EXISTING STORM DRAIN TO BE REMOVED	
HEADWALL	
BYPASS SEPARATOR TREATMENT	
ROAD GULLY	G
GULLY CONNECTION	
PROPOSED POND FENCE	
RED LINE BOUNDARY	



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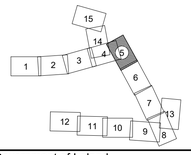
Client

Comhairle Contae Fhine Gall
Fingal County Council

Key Plan



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Model File Identifier

Scale 1:250 @ A1 1:500 @ A3

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Sheet 5 of 15

Project CHURCH FIELDS LINK ROAD & CYCLE NETWORK

Title OUTLINE DRAINAGE LAYOUT

File Identifier MDT0875-RPS-00-XX-DR-D-DR0005

Status S4

Rev P02

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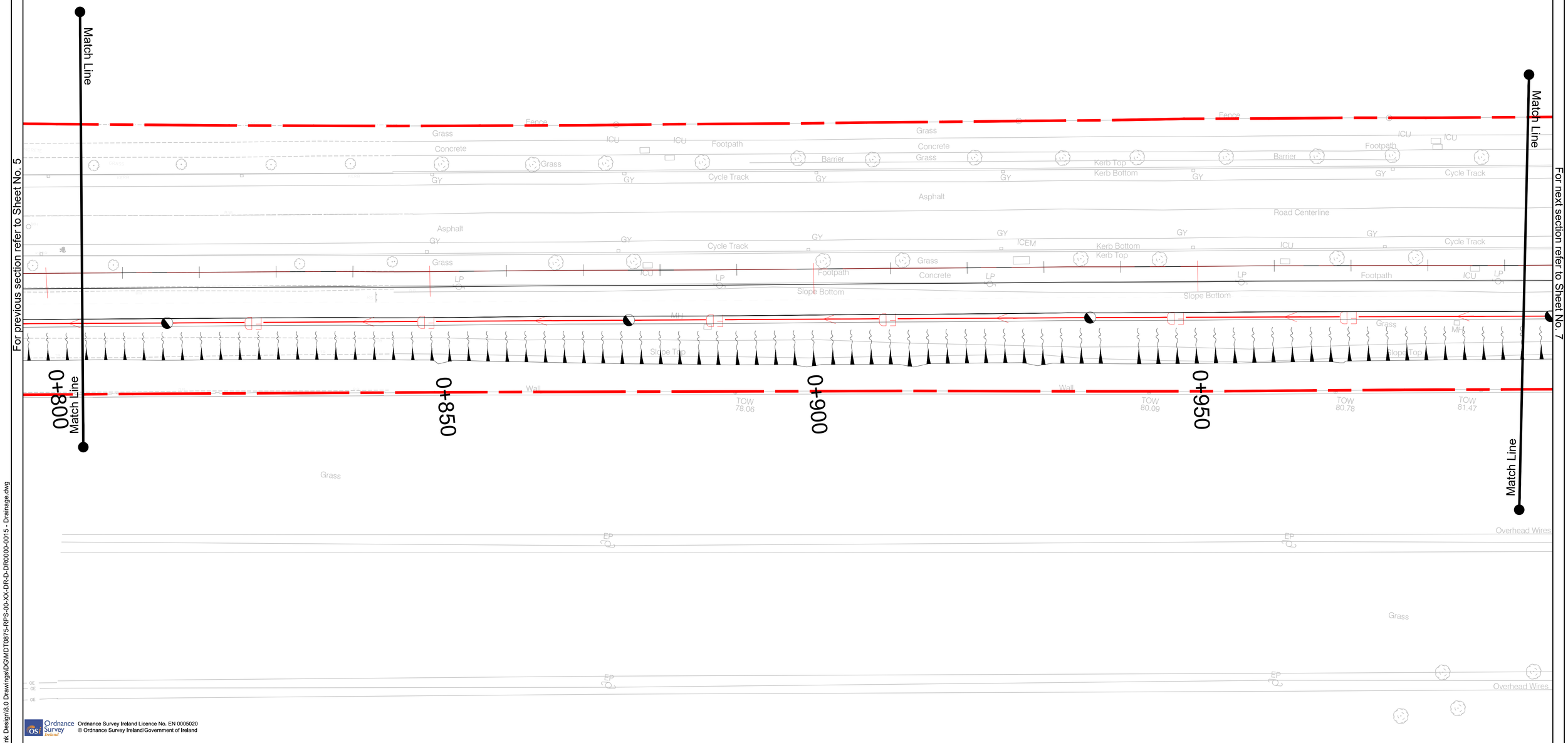
LEGEND

CARRIER DRAIN	CD
FILTER DRAIN (REFER TO DR-D-SCD0501)	FD
DITCH (TEMPORARY)	D
PRECAST CONCRETE GULLY POT & DISTRIBUTION PIPE (REFER TO DR-D-SCD0501)	
PROPOSED 900mm DIA. ATTENUATION PIPE	AT
RODDING EYE	
ACCESS CHAMBER / MANHOLE	
BIORETENTION SIDE-INLET GULLY (REFER TO DWG DR-D-SCD0501)	
CATCHPIT	
EXISTING STORM DRAIN TO BE RETAINED FOR OUTFALL	
EXISTING STORM DRAIN TO BE REMOVED	
HEADWALL	
BYPASS SEPARATOR TREATMENT	
ROAD GULLY	G
GULLY CONNECTION	
PROPOSED POND FENCE	
RED LINE BOUNDARY	



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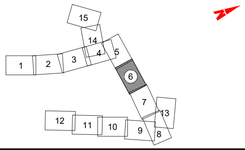
Client

Comhairle Contae Fhine Gall
Fingal County Council

Key Plan



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Model File Identifier

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Sheet 6 of 15

Project CHURCH FIELDS LINK ROAD & CYCLE NETWORK

Title OUTLINE DRAINAGE LAYOUT

File Identifier MDT0875-RPS-00-XX-DR-D-DR0006

Status S4

Rev P02

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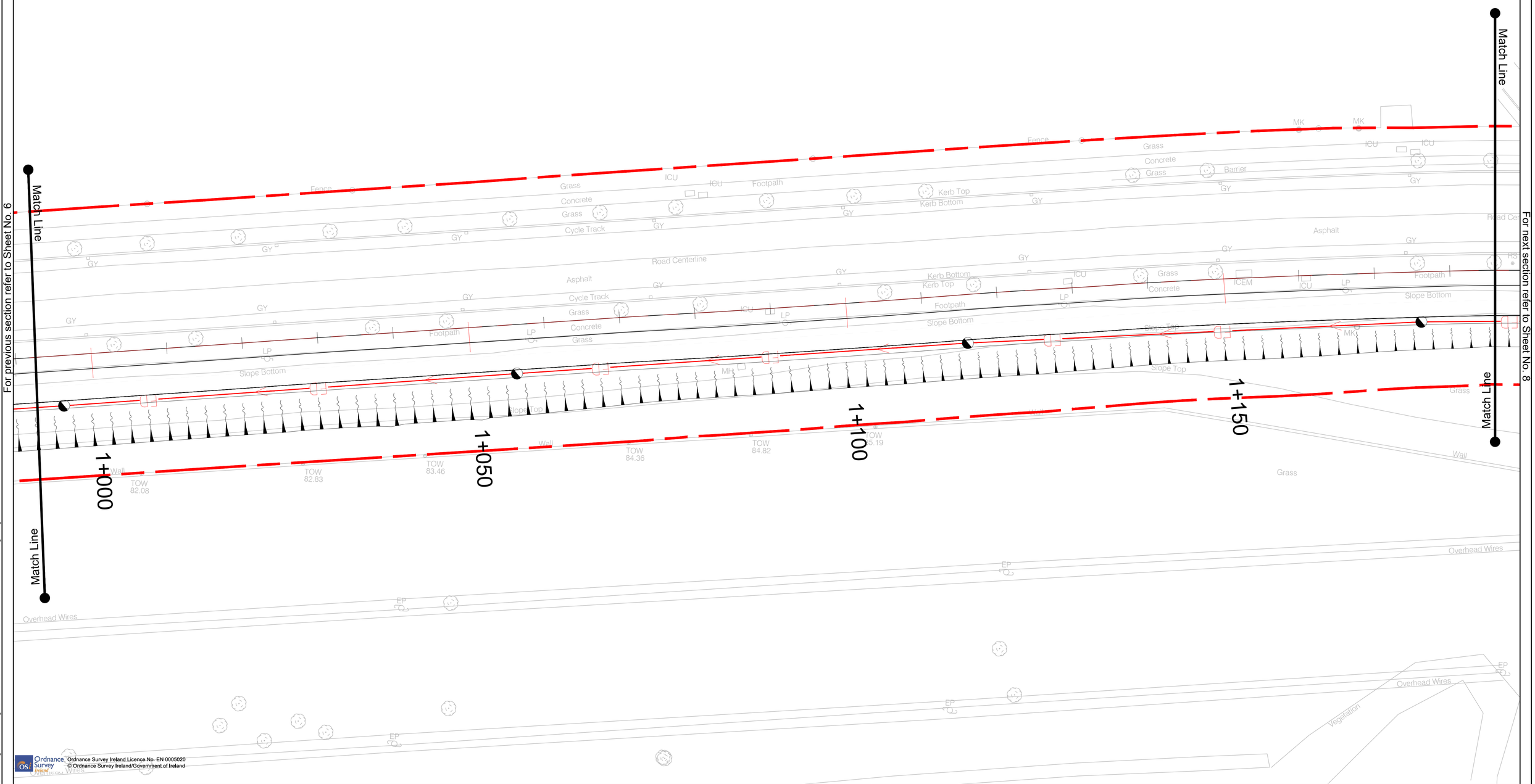
LEGEND

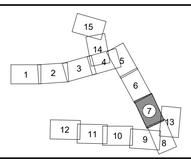
CARRIER DRAIN	CD
FILTER DRAIN (REFER TO DR-D-SCD0501)	FD
DITCH (TEMPORARY)	D
PRECAST CONCRETE GULLY POT & DISTRIBUTION PIPE (REFER TO DR-D-SCD0501)	
PROPOSED 900mm DIA. ATTENUATION PIPE	AT
RODDING EYE	
ACCESS CHAMBER / MANHOLE	
BIORETENTION SIDE-INLET GULLY (REFER TO DWG DR-D-SCD0501)	
CATCHPIT	
EXISTING STORM DRAIN TO BE RETAINED FOR OUTFALL	
EXISTING STORM DRAIN TO BE REMOVED	
HEADWALL	
BYPASS SEPARATOR TREATMENT	
ROAD GULLY	G
GULLY CONNECTION	
PROPOSED POND FENCE	
RED LINE BOUNDARY	



Client

Comhairle Contae Fhine Gall
Fingal County Council

Key Plan



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Model File Identifier

Scale: 1:250 @ A1, 1:500 @ A3

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Sheet: 7 of 15

Project: CHURCH FIELDS LINK ROAD & CYCLE NETWORK

Title: OUTLINE DRAINAGE LAYOUT

File Identifier: MDT0875-RPS-00-XX-DR-D-DR0007

Status: S4

Rev: P02

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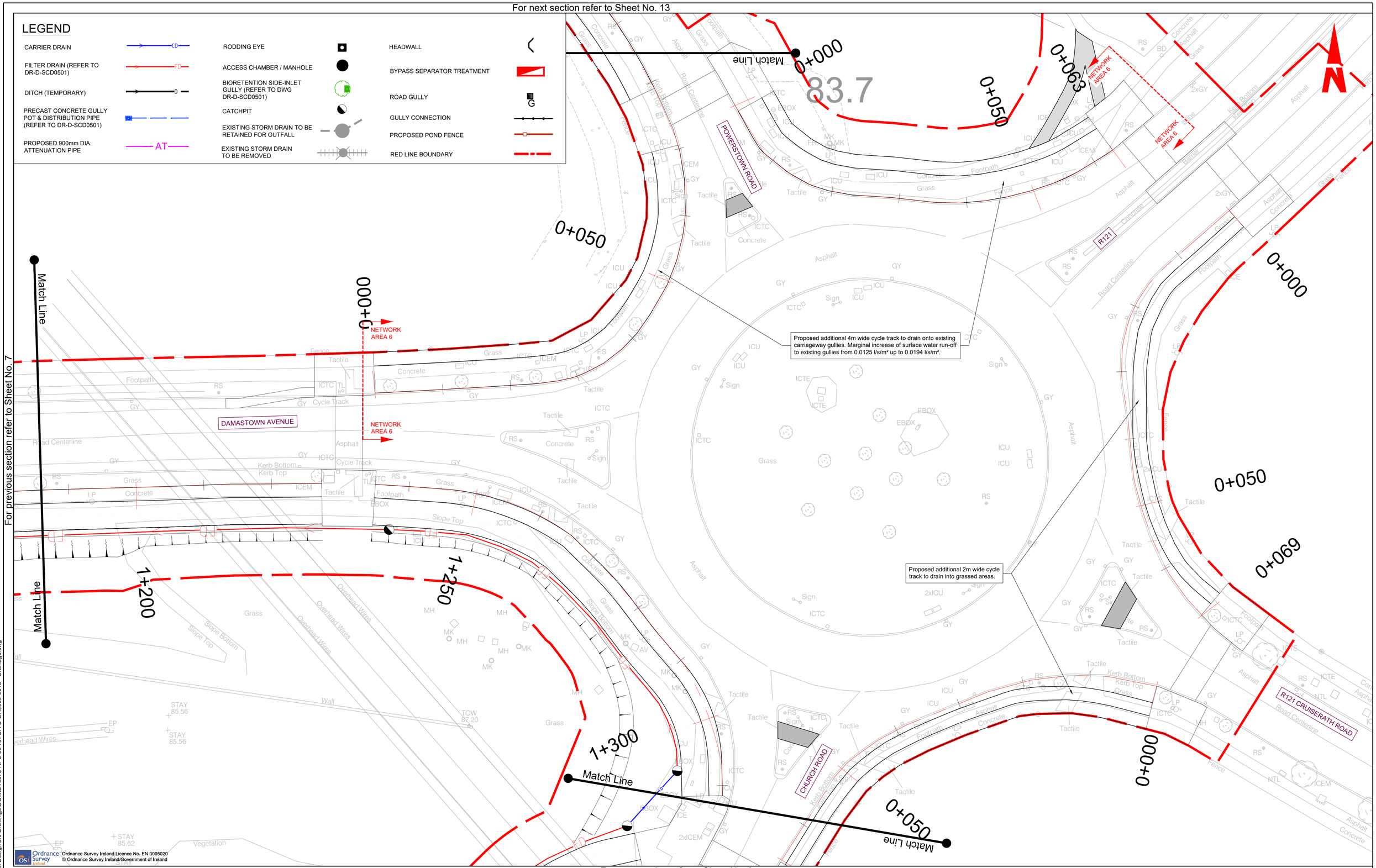
For next section refer to Sheet No. 13



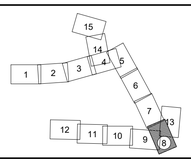
For previous section refer to Sheet No. 7

For next section refer to Sheet No. 9

Client

Comhairle Contae Fhine Gall
Fingal County Council

Key Plan



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Model File Identifier

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Sheet 8 of 15

Project CHURCH FIELDS LINK ROAD & CYCLE NETWORK

Title OUTLINE DRAINAGE LAYOUT

File Identifier MDT0875-RPS-00-XX-DR-D-DR0008

Status S4

Rev P02

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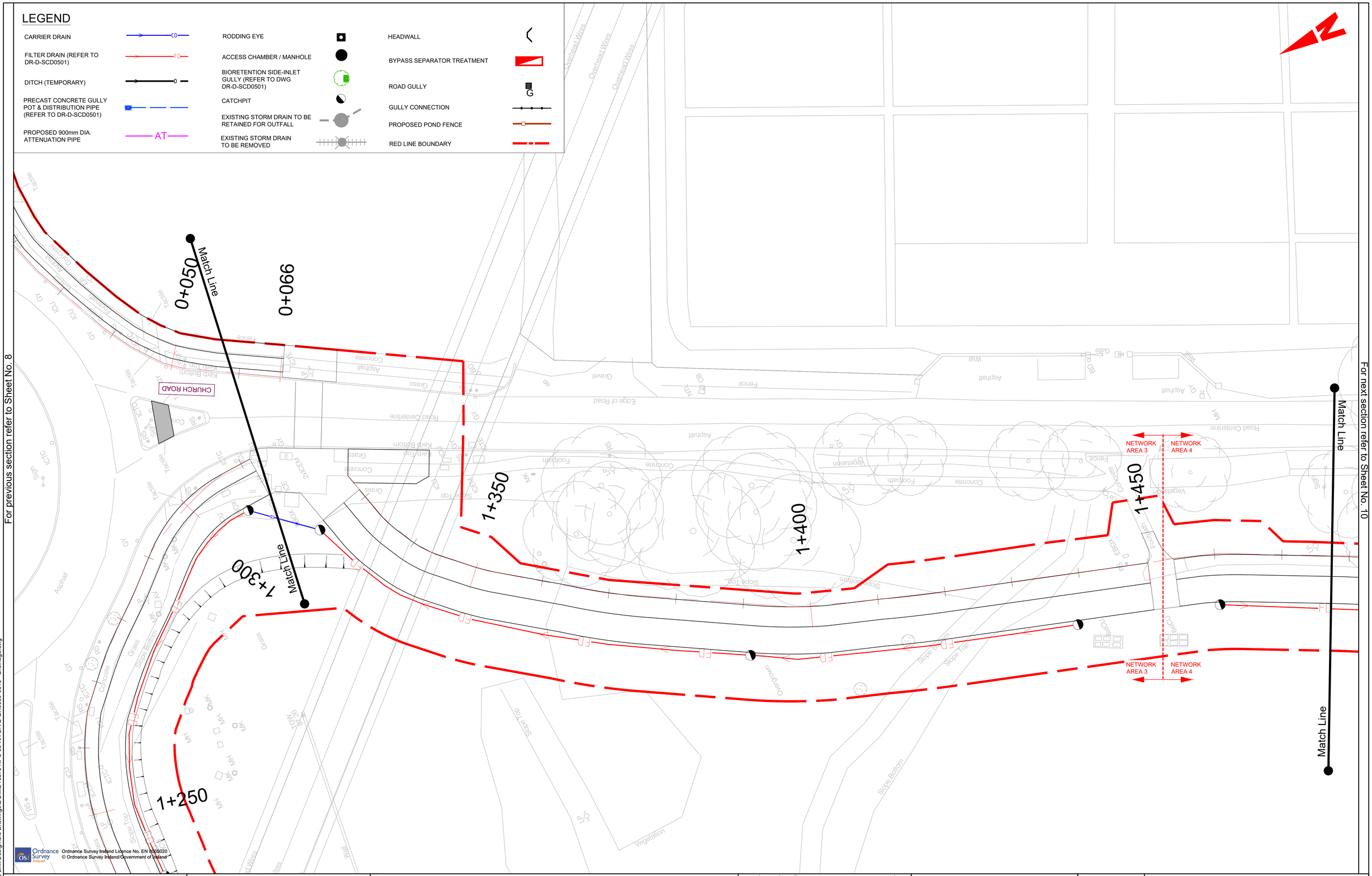

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For next section refer to Sheet No. 10

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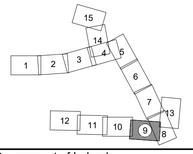
Client

Comhairle Contae Fhine Gall
Fingal County Council

Key Plan



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Model File Identifier

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Created on: NOV. '19

Sheet: 9 of 15

Project: CHURCH FIELDS LINK ROAD & CYCLE NETWORK

Title: OUTLINE DRAINAGE LAYOUT

File Identifier: MDT0875-RPS-00-XX-DR-D-DR0009

Status: S4

Rev: P02

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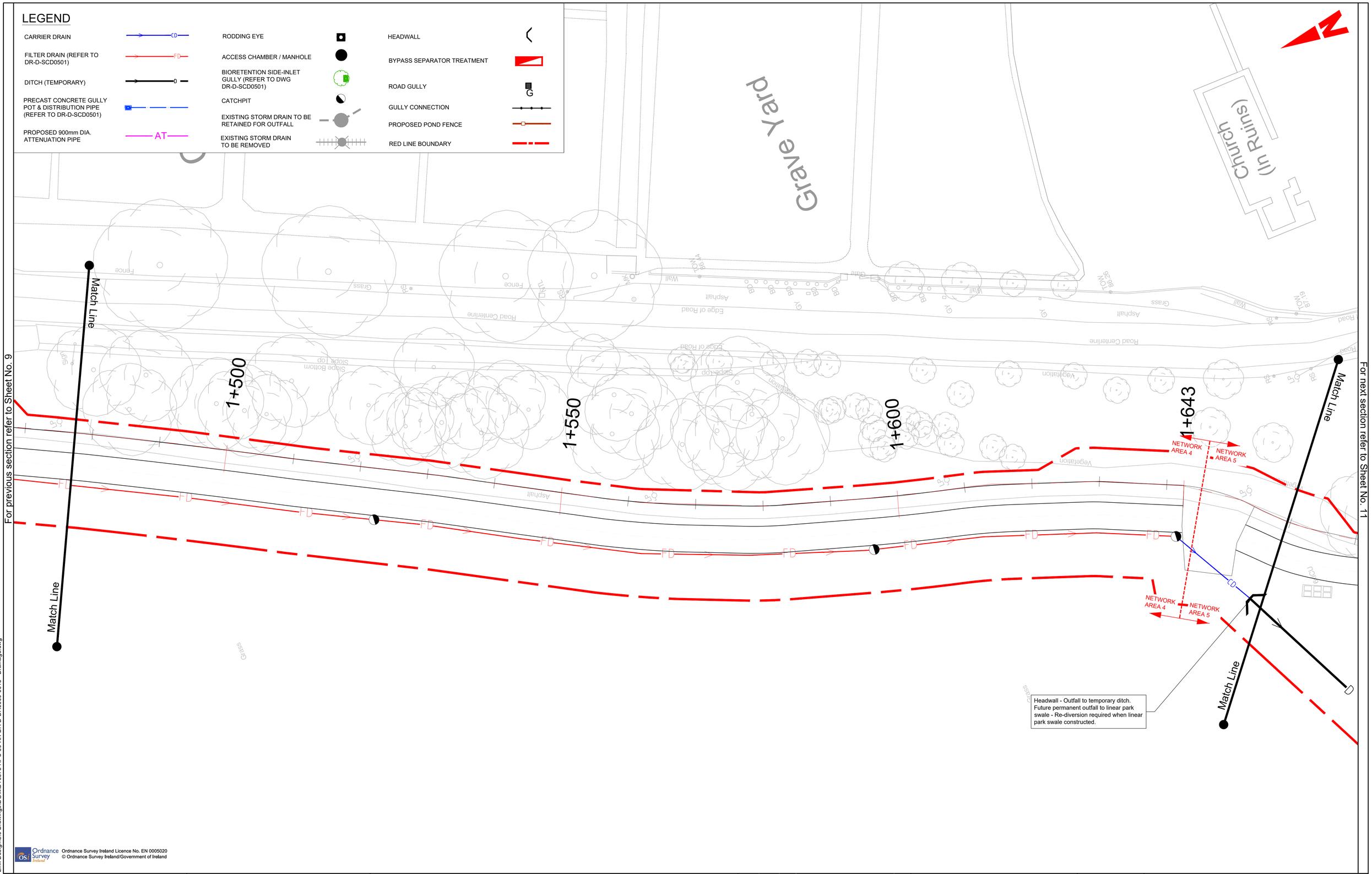

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Client

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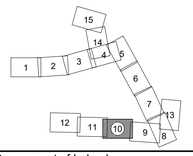
Fingal County Council

Key Plan



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Model File Identifier

Scale: 1:250 @ A1, 1:500 @ A3

Created on: NOV. '19

Sheet: 10 of 15

Project: CHURCH FIELDS LINK ROAD & CYCLE NETWORK

Title: OUTLINE DRAINAGE LAYOUT

File Identifier: MDT0875-RPS-00-XX-DR-D-DR0010

Status: S4

Rev: P02

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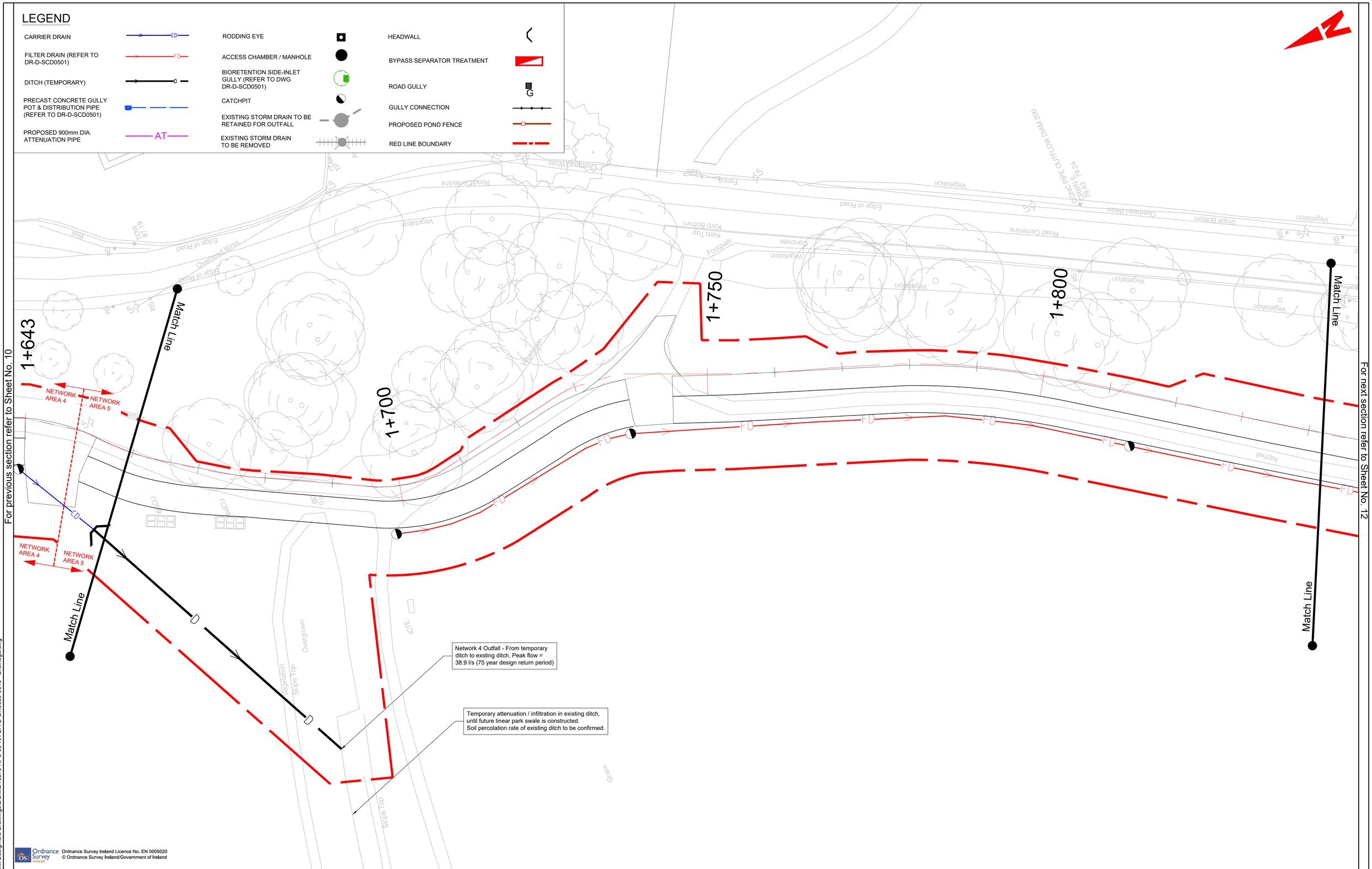
LEGEND

CARRIER DRAIN	CD
FILTER DRAIN (REFER TO DR-D-SCD0501)	FD
DITCH (TEMPORARY)	D
PRECAST CONCRETE GULLY POT & DISTRIBUTION PIPE (REFER TO DR-D-SCD0501)	
PROPOSED 900mm DIA. ATTENUATION PIPE	AT
RODDING EYE	
ACCESS CHAMBER / MANHOLE	
BIORETENTION SIDE-INLET GULLY (REFER TO DWG DR-D-SCD0501)	
CATCHPIT	
EXISTING STORM DRAIN TO BE RETAINED FOR OUTFALL	
EXISTING STORM DRAIN TO BE REMOVED	
HEADWALL	
BYPASS SEPARATOR TREATMENT	
ROAD GULLY	G
GULLY CONNECTION	
PROPOSED POND FENCE	
RED LINE BOUNDARY	



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For next section refer to Sheet No. 12

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Client

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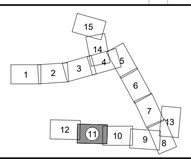
Key Plan



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(v) All Levels refer to Ordnance Survey Datum, Malin Head.

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P02	29.01.20	AK / MF	ISSUED FOR PLANNING	MN
P01	29.11.19	AK / TD	ISSUED FOR PLANNING	MN

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Model File Identifier

Scale: 1:250 @ A1, 1:500 @ A3

Created on: NOV. '19

Sheet: 11 of 15

Project: CHURCH FIELDS LINK ROAD & CYCLE NETWORK

Title: OUTLINE DRAINAGE LAYOUT

File Identifier: MDT0875-RPS-00-XX-DR-D-DR0011

Status: S4

Rev: P02

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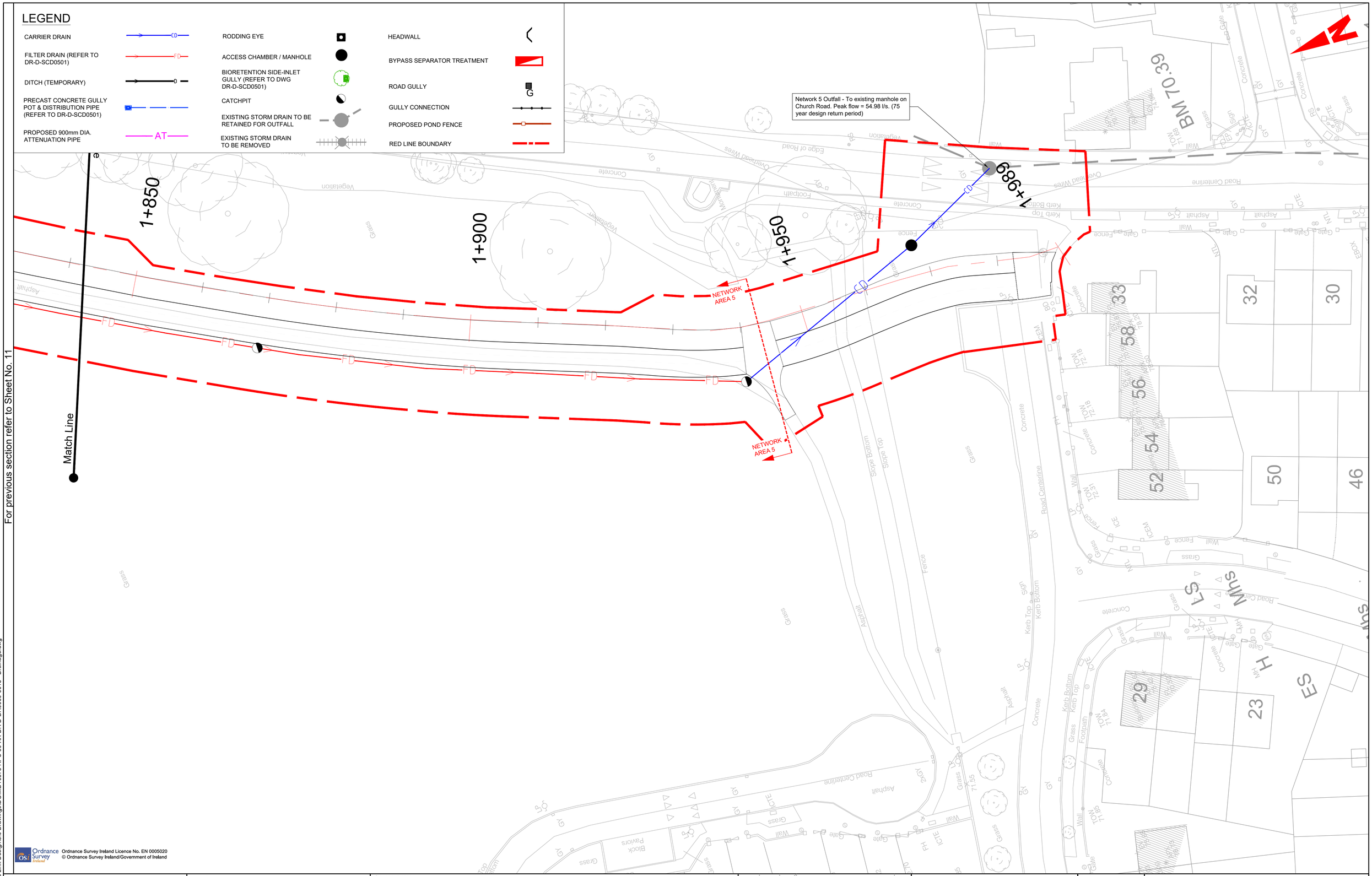
LEGEND

CARRIER DRAIN	CD
FILTER DRAIN (REFER TO DR-D-SCD0501)	FD
DITCH (TEMPORARY)	D
PRECAST CONCRETE GULLY POT & DISTRIBUTION PIPE (REFER TO DR-D-SCD0501)	
PROPOSED 900mm DIA. ATTENUATION PIPE	AT
RODDING EYE	
ACCESS CHAMBER / MANHOLE	
BIORETENTION SIDE-INLET GULLY (REFER TO DWG DR-D-SCD0501)	
CATCHPIT	
EXISTING STORM DRAIN TO BE RETAINED FOR OUTFALL	
EXISTING STORM DRAIN TO BE REMOVED	
HEADWALL	
BYPASS SEPARATOR TREATMENT	
ROAD GULLY	G
GULLY CONNECTION	
PROPOSED POND FENCE	
RED LINE BOUNDARY	



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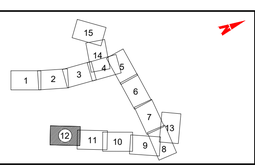
Client

Comhairle Contae Fhine Gall
Fingal County Council

Key Plan



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Model File Identifier

Scale
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Sheet
12 of 15

Project
CHURCH FIELDS LINK ROAD & CYCLE NETWORK

Title
OUTLINE DRAINAGE LAYOUT

File Identifier
MDT0875-RPS-00-XX-DR-D-DR0012

Status
S4

Rev
P02

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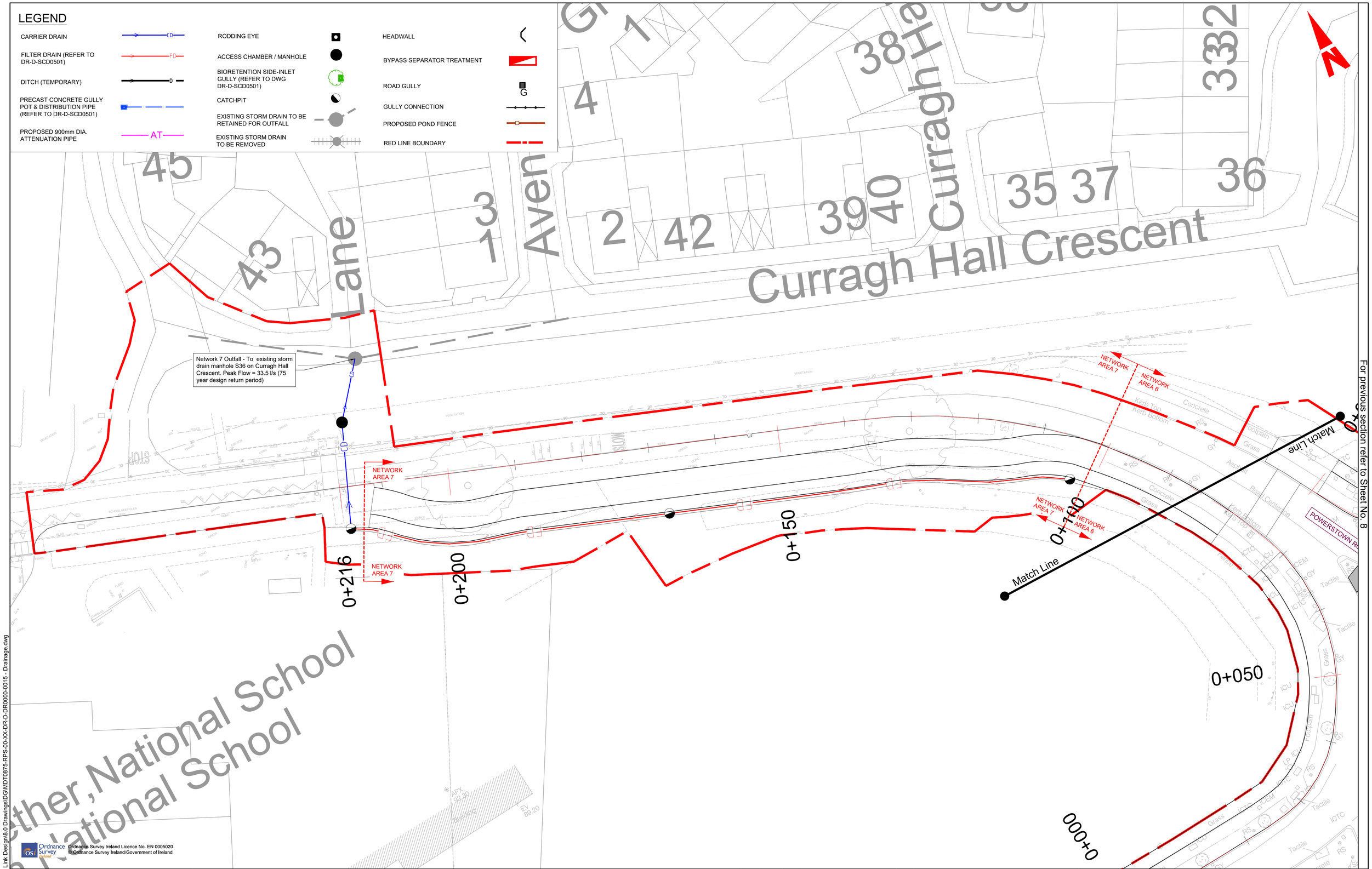
LEGEND

CARRIER DRAIN	CD
FILTER DRAIN (REFER TO DR-D-SCD0501)	FD
DITCH (TEMPORARY)	D
PRECAST CONCRETE GULLY POT & DISTRIBUTION PIPE (REFER TO DR-D-SCD0501)	
PROPOSED 900mm DIA. ATTENUATION PIPE	AT
RODDING EYE	
ACCESS CHAMBER / MANHOLE	
BIORETENTION SIDE-INLET GULLY (REFER TO DWG DR-D-SCD0501)	
CATCHPIT	
EXISTING STORM DRAIN TO BE RETAINED FOR OUTFALL	
EXISTING STORM DRAIN TO BE REMOVED	
HEADWALL	
BYPASS SEPARATOR TREATMENT	
ROAD GULLY	G
GULLY CONNECTION	
PROPOSED POND FENCE	
RED LINE BOUNDARY	



For previous section refer to Sheet No. 8

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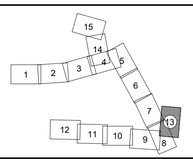
Client

Comhairle Contae Fhine Gall
Fingal County Council

Key Plan



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Model File Identifier

Scale
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1:500 @ A3

Created on
NOV. '19

Sheet
13 of 15

Project
CHURCH FIELDS LINK ROAD & CYCLE NETWORK

Title
OUTLINE DRAINAGE LAYOUT

File Identifier
MDT0875-RPS-00-XX-DR-D-DR0013

Status
S4

Rev
P02

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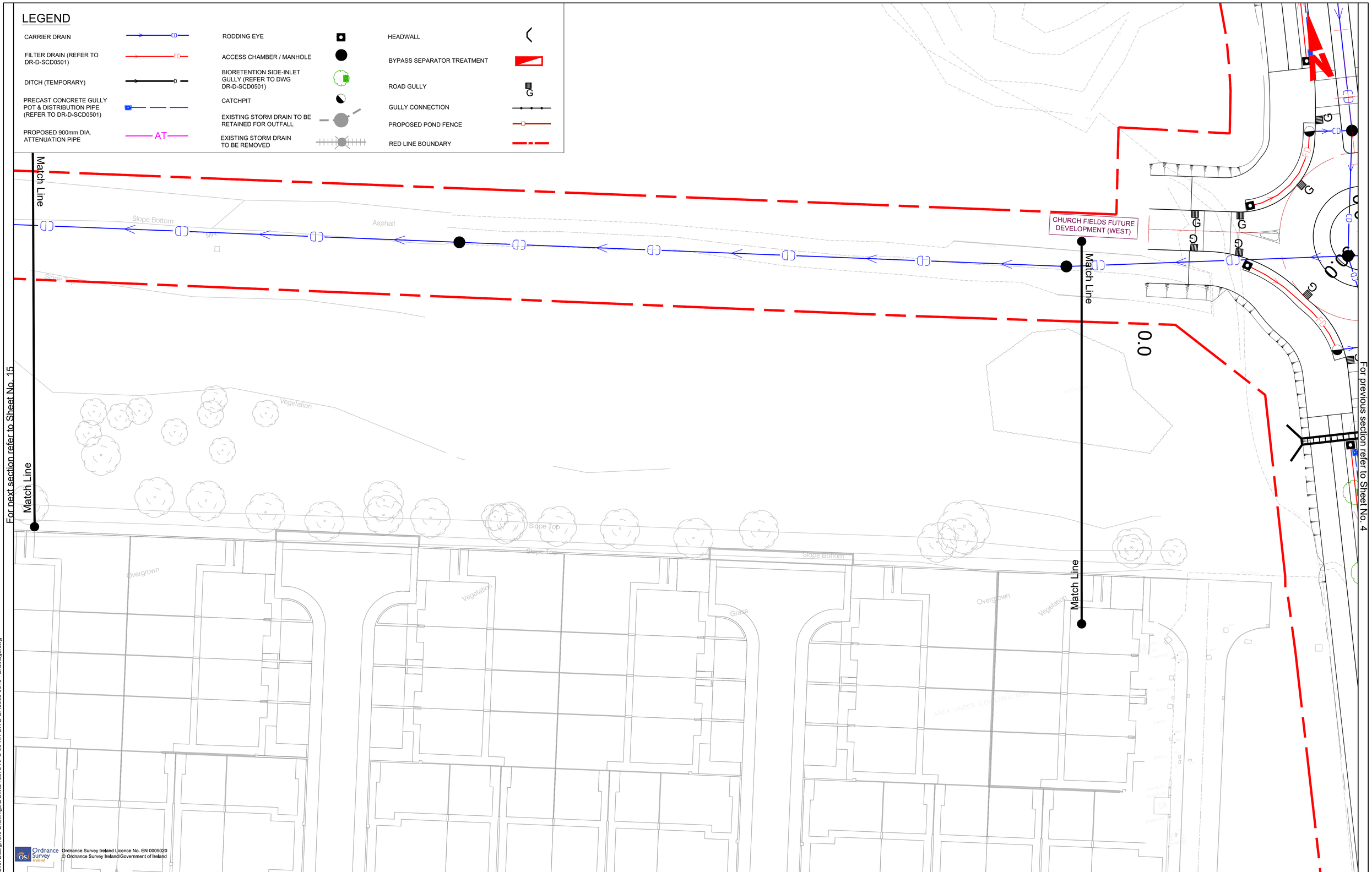
LEGEND

CARRIER DRAIN	CD
FILTER DRAIN (REFER TO DR-D-SCD0501)	FD
DITCH (TEMPORARY)	D
PRECAST CONCRETE GULLY POT & DISTRIBUTION PIPE (REFER TO DR-D-SCD0501)	
PROPOSED 900mm DIA. ATTENUATION PIPE	AT
RODDING EYE	
ACCESS CHAMBER / MANHOLE	
BIORETENTION SIDE-INLET GULLY (REFER TO DWG DR-D-SCD0501)	
CATCHPIT	
EXISTING STORM DRAIN TO BE RETAINED FOR OUTFALL	
EXISTING STORM DRAIN TO BE REMOVED	
HEADWALL	
BYPASS SEPARATOR TREATMENT	
ROAD GULLY	G
GULLY CONNECTION	
PROPOSED POND FENCE	
RED LINE BOUNDARY	



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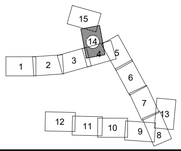
Client

Comhairle Contae Fhine Gall
Fingal County Council

Key Plan



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Model File Identifier

Scale
1:250 @ A1
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Created on
NOV. '19

Sheet
14 of 15

Project
CHURCH FIELDS LINK ROAD & CYCLE NETWORK

Title
OUTLINE DRAINAGE LAYOUT

File Identifier
MDT0875-RPS-00-XX-DR-D-DR0014

Status
S4

Rev
P02

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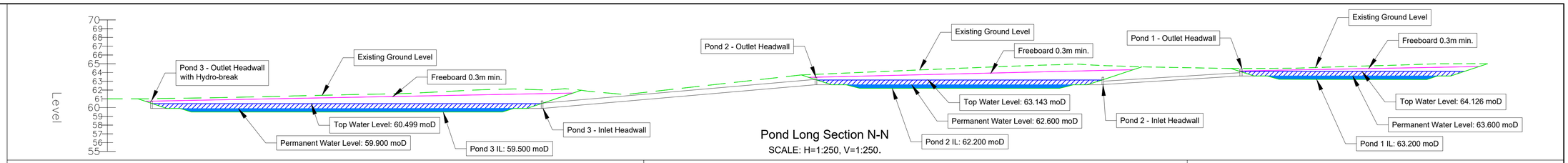

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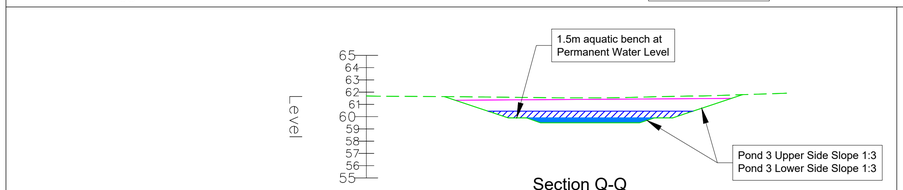

Section Q-Q
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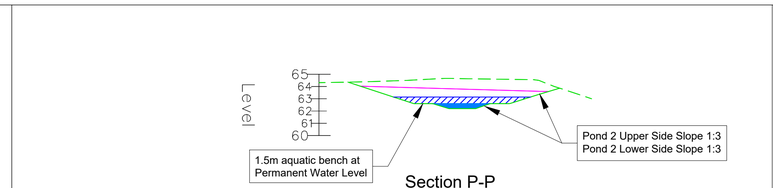

Section P-P
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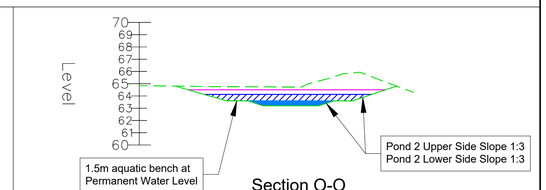

Section O-O
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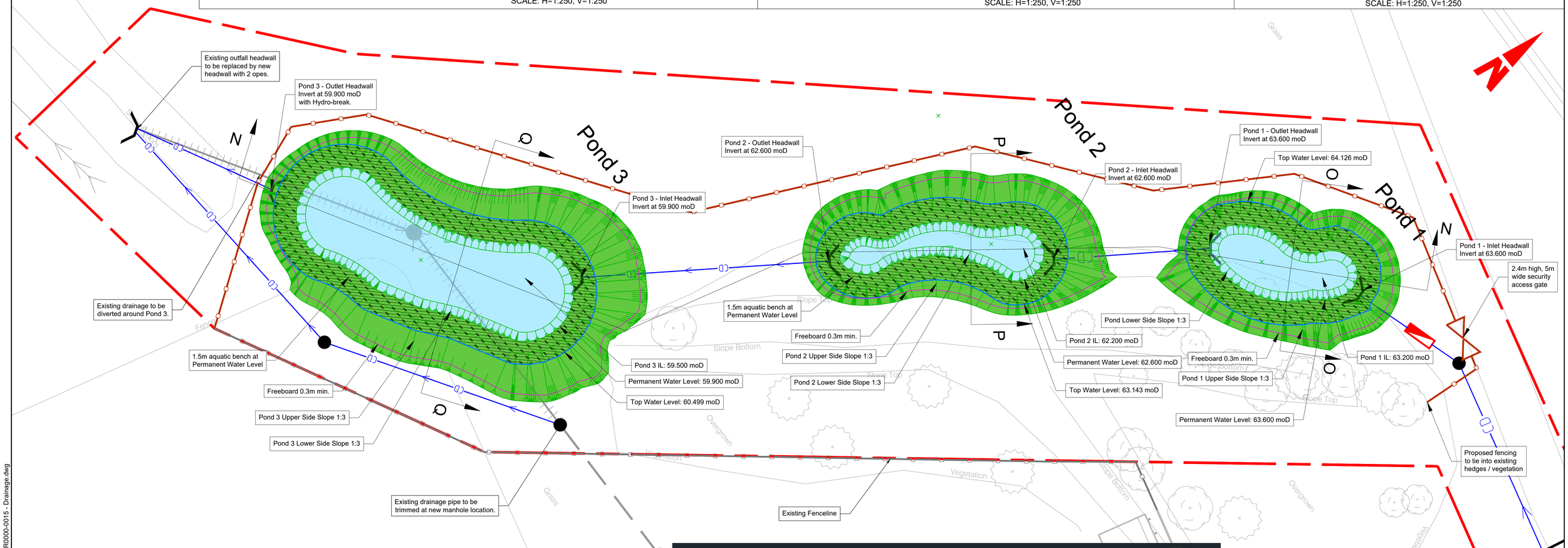
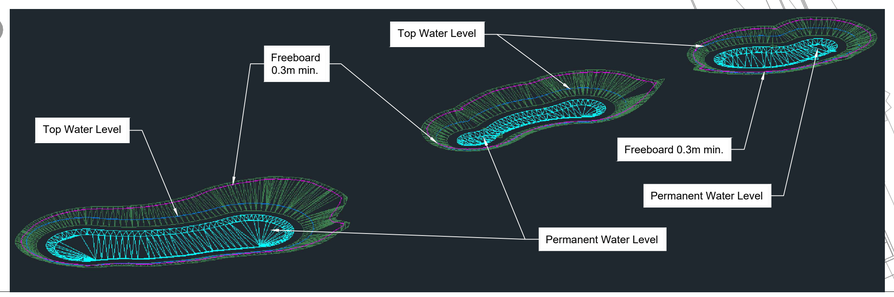




LEGEND

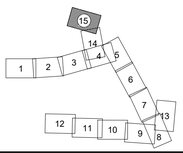
CARRIER DRAIN	CD	RODDING EYE		HEADWALL	
FILTER DRAIN (REFER TO DR-D-SCD0501)	FD	ACCESS CHAMBER / MANHOLE		BYPASS SEPARATOR TREATMENT	
DITCH (TEMPORARY)	D	BIORETENTION SIDE-INLET GULLY (REFER TO DWG DR-D-SCD0501)		ROAD GULLY	G
PRECAST CONCRETE GULLY POT & DISTRIBUTION PIPE (REFER TO DR-D-SCD0501)		CATCHPIT		GULLY CONNECTION	
		EXISTING STORM DRAIN TO BE RETAINED FOR OUTFALL		PROPOSED POND FENCE	
PROPOSED 900mm DIA. ATTENUATION PIPE	AT	EXISTING STORM DRAIN TO BE REMOVED		RED LINE BOUNDARY	

For previous section refer to Sheet No. 14

Client

Comhairle Contae Fhine Gall
Fingal County Council

Key Plan



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Model File Identifier

Scale: 1:250 @ A1, 1:500 @ A3

Created on: NOV. '19

Sheet: 15 of 15

Project: CHURCH FIELDS LINK ROAD & CYCLE NETWORK

Title: OUTLINE DRAINAGE LAYOUT

File Identifier: MDT0875-RPS-00-XX-DR-D-DR0015

Status: S4

Rev: P02

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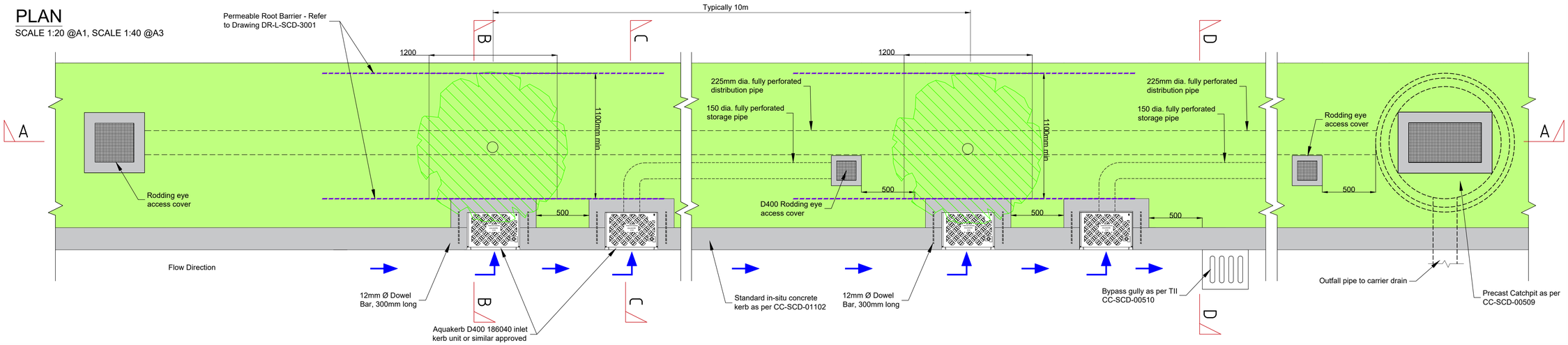
PLAN

SCALE 1:20 @A1, SCALE 1:40 @A3



LEGEND

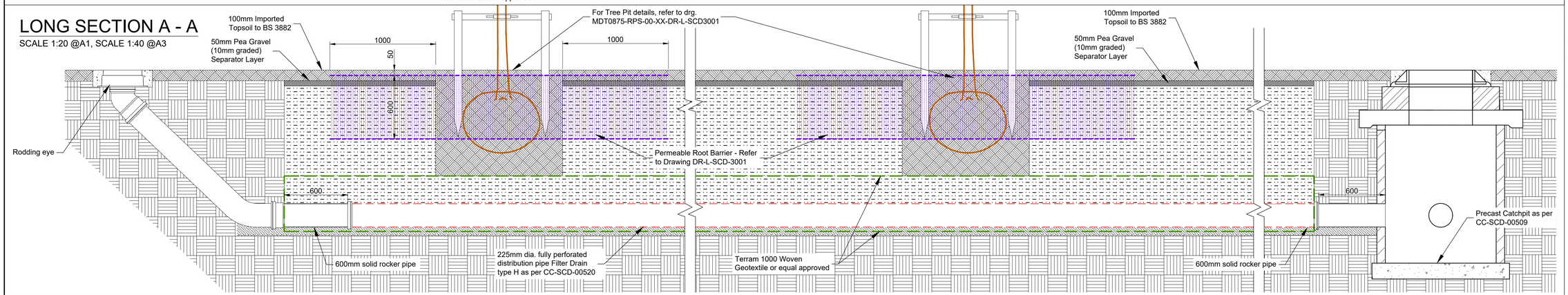
- Topsoil
- Subsoil
- Cut concrete section
- Granular material
- In-situ concrete
- Filter Drain filling material
- Standard engineering brick
- Pea Gravel (10mm graded) Separator Layer
- Geotextile
- Root Barrier

Notes:

1. All dimensions are millimeters unless specified otherwise.
2. Drawing shows typical details only. Element locations may vary based on drainage layout drawings MDT0875-RPS-00-XX-DR-D-DR0000-0015.
3. For Tree Pit details refer to drawing MDT0875-RPS-00-XX-DR-L-SCD3001.

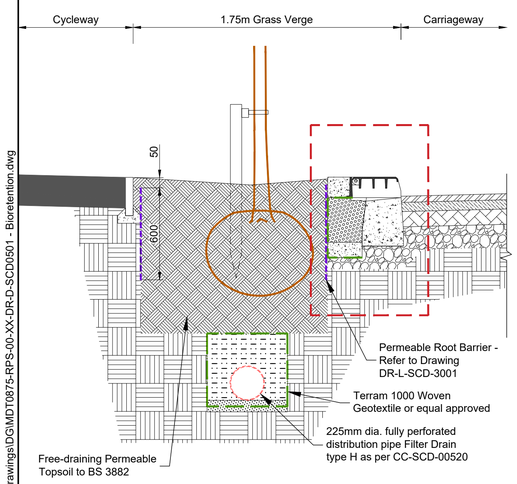
LONG SECTION A - A

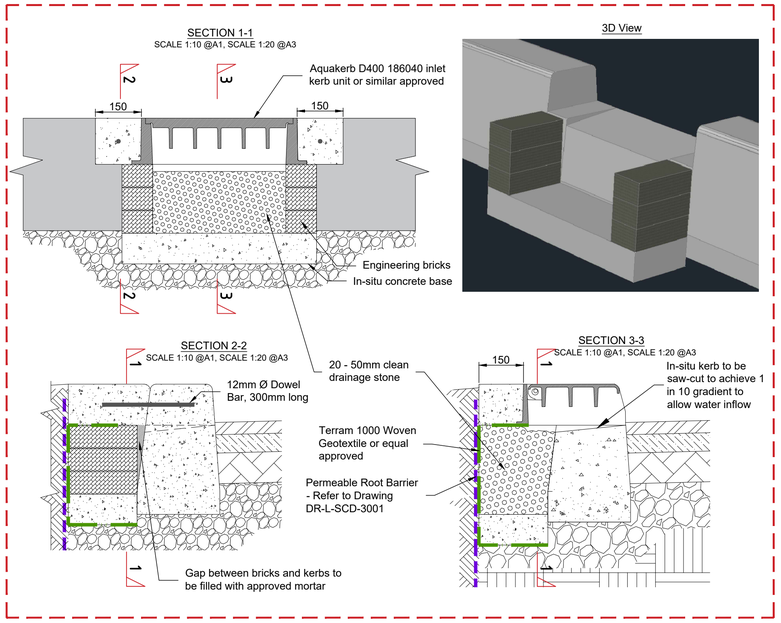
SCALE 1:20 @A1, SCALE 1:40 @A3



SECTION B - B
TREE PIT & INLET KERB

SCALE 1:20 @A1, SCALE 1:40 @A3





SECTION C - C
INLET KERB TO STORAGE PIPE

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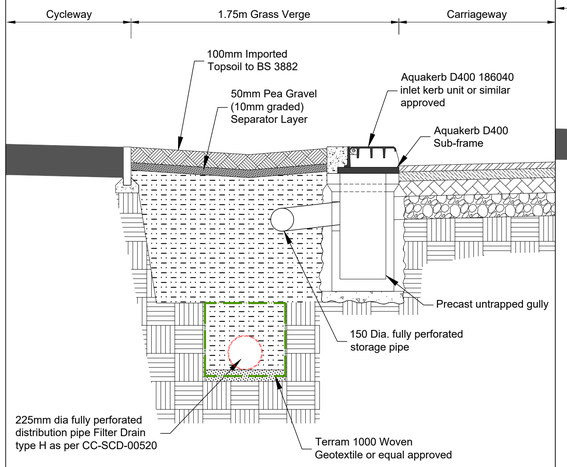
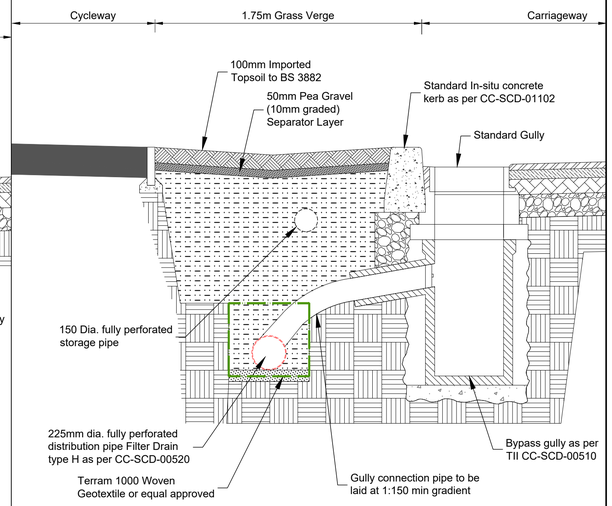


SECTION D - D
BYPASS GULLY

SCALE 1:20 @A1, SCALE 1:40 @A3



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Client

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Fingal County Council

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Scale: As Shown @ A1, As Shown @ A3

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Sheet: 1 of 1

Project: CHURCH FIELDS LINK ROAD & CYCLE NETWORK

Title: PART 8 PLANNING
DRAINAGE STANDARD DETAILS
BIO-RETENTION DETAILS

File Identifier: MDT0875-RPS-00-XX-DR-D-SCD0501

Status: S4

Rev: P02

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