



Comhairle Cathrach Chorcaí
Cork City Council

Traffic Operations Division

Preliminary Safety and Health Plan and
Design Stage Risk Assessment

For

Road Safety Improvement Schemes



We are Cork.



**Cork
City Council**
Comhairle Cathrach Chorcaí

Traffic Operations Division

Road Safety Improvement Schemes

Preliminary Safety and Health Plan Design Stage Risk Assessment

Document Control Sheet

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1 Introduction

The Safety, Health and Welfare at Work (Construction) Regulations 2013-2021 require that the Project Supervisors for the Design Process, and Construction Stage, prepare and maintain a Safety and Health Plan for any construction works where any of the following conditions are applicable:

- Works are **planned** to last longer than 30 working days
- Volume of work is **scheduled** to exceed 500 person-days
- Works involves a **particular risk**, including but not limited to any of those specified in the Schedule 1 of the 2013 Regulations.

This project will involve the construction of schemes of road safety improvement works at multiple locations throughout Cork City Council's jurisdiction.

Since this activity falls within the meaning of "construction work" as defined by the Safety, Health and Welfare at Work (Construction) Regulations 2013, and involves one or more "Particular Risks", it has been necessary to prepare this Preliminary Safety and Health Plan.

This Safety & Health Plan has been prepared on a preliminary basis in accordance with Regulation 12 (1) (a) of the Safety Health and Welfare at Work (Construction) Regulations 2013-2021. A copy of this plan must be retained for 5 years.

It is intended that this Preliminary Safety and Health Plan will be passed on to the Project Supervisor to provide information as appropriate to facilitate the PSCS in their further developing this plan into the Construction Stage Safety and Health Plan prior to commencement of works.

The construction stage plan shall be reviewed and updated in accordance with any changes in scope or detail which might occur during the project which may have an impact on health and safety.

The information contained in the preliminary plan has been prepared prior to the commencement of work on site. It does not take account of any matters or information, which may come to light after that time.

2 Project Details

2.1 Background

Cork City Council has identified locations throughout its jurisdiction where it intends to progress schemes of road works with the objective of improving road safety, convenience, and public amenity for all road users.

The proposed schemes of works will be at several locations throughout Cork City Council's jurisdiction on open National, Regional and Local Roads with live vehicular and pedestrian traffic in urban, public realm, suburban and rural settings.

The works on the schemes will primarily consist of: site clearance, excavation of existing road and footpath pavements, installation of subsurface utility ducting and drainage, construction of new road pavements, footpaths and traffic calming features, and installation of traffic signalling and public lighting equipment.

2.2 Organisational Structure and Statutory Duty Holders

The table below details the entities and persons involved in this project, including roles, names and contact details, of those who hold statutory duties under relevant Safety, Health and Welfare legislation or are otherwise important stakeholders in the safe delivery of the project.

Table 2-1: Organisation Structure, Statutory Duty Holders and Contact Details

Client Details	
Client Name	Cork City Council (Traffic Operations Division) City Hall, Anglesea Street, Cork, T12 T997
Nominated Contact / Project Manager Contact details	Ms Áine McGrath aine_mcgrath@corkcity.ie 086 8515436
Project Supervisor for Design Process Details	
Project Supervisor for Design Stage	Cork City Council (Traffic Operations Division) City Hall, Anglesea Street, Cork, T12 T997
Nominated Contact	Ms Áine McGrath aine_mcgrath@corkcity.ie 086 8515436
Designer(s) Details	
Scheme Designer	Cork City Council (Traffic Operations Division) City Hall, Anglesea Street, Cork, T12 T997
Nominated Contact & contact details	Ms Áine McGrath aine_amcgrath@corkcity.ie 086 8515436
Other Designers:	None at time of tender
Project Supervisor for Construction Stage Details	
Project Supervisor for Construction Stage & Nominated Contact	TBA at contract award stage
Health and Safety Co-ordinator & Nominated Contact	TBA at contract award stage
Main Contractor Details	
Name of Contractor	TBA at contract award stage
Nominated Contact/Project Manager & contact details	TBA at contract award stage
Specialist Subcontractor Details	
Electrical Subcontractor(s)	TBA at Contract award stage

2.3 Emergency Contact Details and Emergency Services

The PSCS and Contractor shall take note of the details of the local emergency services and utility provider emergency contacts given in Table 2-2 and ensure that these are displayed in prominent and accessible locations on site, visible to all staff for the duration of the project.

Table 2-2: Emergency Services and Emergency Contacts

Service	Address & Eircode	Phone Number
Emergency Services		
Accident & Emergency, Ambulance	Cork University Hospital, Wilton, Cork, T12 DC4A	112
Medical Care (non emergencies)		
- Mercy Urgent Care (8am-6pm)	Baker's Road, Gurranabraher, T23 V52	021 4926900
- South Doc (24 hours)	South Ring Bus Pk, Kinsale Rd, Cork, T12 N6KR	1850 335999
Fire and Rescue Services	Central Fire Station Anglesea Street Cork, T12 DK52.	112
Gardai	Anglesea Street Garda Station Anglesea Street, Cork, T12 K244	021 452 2000 112 emergency
Utility Emergency Contacts		
Gas Networks Ireland (contact with or breakage of pipeline, or other emergency)	Rockborough Road, Ballintemple, Cork T12 RX96	1850 20 50 50
ESB Networks (overhead line contact or cable strike, or other emergency)	Sarsfield Road Wilton, Cork, T12 E367	1850 372 999
Irish Water (contact with or breakage of pipeline, major bursts, or other emergency)	C/O Cork City Council Water Services Dept, City Hall, Anglesea Street, Cork, T12 T997	1850 278 278
Works Permits & Licences		
Cork City Council Traffic Operations (road openings & closures, scaffold permits etc)	Executive Engineer, Room 338, City Hall, Anglesea Street, Cork, T12 T997	086 0143700

2.4 Location of Works

2.4.1 Works Locations

The proposed schemes of works will be located at several locations throughout Cork City Council's jurisdiction on a mix of open National, Regional and Local Roads with live vehicular and pedestrian traffic in urban, public realm, suburban and rural settings.

Some work locations will close to schools, healthcare facilities, parks, churches, and other busy institutional and community facilities.

Table 2-3 lists the locations of each work site. Following the blue hyperlink will link to the works location on Google Maps. Appendix B includes information showing the location and distribution of the sites.

Table 2-3: Locations of Proposed Works Locations

Works Section / Site	Location (click to hyperlink to location on Google Maps)
A	L98492 Coolgarten Park & R849 Glasheen Road
B	L98492 Coolgarten Park & R608 Magazine Road
C	L5108 Tower St, L5186 Friar St & L5026 Friars Walk
D	R614 & R616 White's Cross Junction
E	Other potential sites - TBC

2.4.2 Client's Base/Compound

The client's (Cork City Council's) base of operations will be as indicated in Section 2.2.

2.4.3 Contractor's Base/Compound

The contractor, subject to their needs and proposed working methods, may establish a suitable local yard or compound as a base from which to carry out the works if necessary. Details of any such compound shall be included in the construction stage safety and health plan.

2.5 Scope of Works

The work will generally consist of the milestone activities at each of the sites as listed in Table 2-4:

Table 2-4 List of Project Milestone Activities

#	Milestone Activity	Activity Led By
1	Site survey and marking out all underground utilities, ducts and pipelines, liaising with the relevant utility operator where necessary	Main Contractor
2	Setting out works according to Works Requirements and Scheme Drawings	Resident Engineer Main Contractor
3	Installation of temporary traffic and pedestrian management	Main Contractor
4	Site clearance - removal of vegetation, road signage, street furniture, boundary railings and demolition.	Main Contractor
5	Saw cut, break out and excavation in existing footpaths, road pavement and green areas	Main Contractor
6	Installation of subsurface, drainage ducting and utility chambers etc	Main Contractor
7	Construction of new kerb lines and footpaths	Main Contractor
8	Construction of concrete/stone masonry walls, fences railings and other boundaries and structures.	Main Contractor
9	Road pavement construction, including speed tables and flat-top ramps.	Main Contractor
10	Reinstatement and making good of other footpath and road pavements, and landscaped areas	Main Contractor
11	Laying out of new areas of landscaping.	Main Contractor
12	Fit out and commissioning of traffic signalling equipment and public lighting and associated electrical equipment and cabling.	Electrical Subcontractor
13	Installation of road traffic signage and road markings.	Main Contractor
14	Facilitate acceptance inspection by client, snagging, handover and re-opening of area to the public.	Main Contractor

2.6 Design Principles and Assumptions

The following design decisions and assumptions were made when preparing this Preliminary Safety and Health Plan:

1. All works sections/individual schemes on this project have been subject to a Stage 1/2 Road Safety Audit according to Transport Infrastructure Ireland GE-STY-01024 – 01027. The Road Safety Audit process aims to optimise road scheme designs with road safety during the operational phase of the scheme.
2. The designers have specified modular/prefabricated products and components wherever possible. These help to reduce manual handling requirements and on-site construction time, insofar as this is feasible on a road and public realm type schemes. For example, the designers have specified a) modular utility chambers, and pre-cast gullies and manholes, as opposed to built-in-situ masonry chambers, gullies and manholes and b) slip-formed cast in-situ kerbing, as opposed to precast kerbing units.
3. The designers have specified products, materials and equipment that will be as low maintenance as possible during the operational phase to reduce on-site time and exposure to on-site risks during routine maintenance. For example, designers have specified a) long life LED luminaires in public lighting and traffic signalling equipment, and b) road markings of cold lay Methyl Methacrylate (MMA) which is longer lasting than traditional thermoplastics. (Cold lay MMA system also reduces fire hazard and risk of burns during installation.)
4. Should the contractor identify lower risk methods of working before commencement, or during works, then proposals for such methods will be given due consideration by the ER.

2.7 Estimated Timescale for Works

The outline timescale estimated for the construction stage of the project is detailed in Table 2-2. This outline timescale assumes the sites are constructed consecutively, with some concurrent working at each site by the Main Contractor and any subcontractors.

Table 2-5: Estimated Outline Project Timescale

Works Section / Site	Location (click to link to Google Maps)	Estimated duration of works Site Possession to Completion
A	L98492 Coolgarten Park & R849 Glasheen Road	15 site days
B	L98492 Coolgarten Park & R608 Magazine Road	15 site days
C	L5108 Tower St, L5186 Friar St & L5026 Friars Walk	20 site days
D	R614 & R616 White's Cross Junction	15 site days
E	Other potential sites - TBC	TBC - be similar to above
Estimated Total Project Duration – Site Days (assumes one crew working on each site consecutively)		65 site days (approx.)

Additional time may be required for project completion owing to unforeseen issues which might arise, such as poor weather, unforeseen poor ground conditions, diversion of unforeseen utilities, or emergency maintenance or works being carried out by other parties the proposed locations.

This outline timescale has been prepared based on the PSDP's judgement and prior experience with respect to civil engineering projects of comparable nature, scale and complexity. The programme assumes that the works will be carried out in accordance with the proposed design.

2.8 Temporary Works

The PSCS and Contractor shall ensure that any temporary works required for completing the works are suitably designed by competent persons. Temporary works which are expected to be required for this project are as follows:

- Temporary Traffic and Pedestrian Management – to be designed and maintained as detailed in Section 5.3.
- Excavation support for foundation and road crossing excavations
- Temporary utility diversions

At the time of writing this preliminary plan, it is not expected that any other temporary works will be required for this project.

Any need for temporary works which might arise during the project must be communicated to the PSCS and PSDP and the design for same shall be agreed as per the procedure outlined in Section 5.10.

2.9 Access to Work Sites

In general, the works locations will be in publicly accessible areas, on open National, Regional and Local Roads with live pedestrian and vehicular traffic (including public green areas and roadside verges) in urban, public realm, suburban and rural settings.

Some site will be located close to schools, hospitals and other busy institutions & community facilities.

3 Safety, Health and Welfare Objectives

3.1 General

It will be the aim of all contributors to this project that the works will be carried out with due regard to the Safety Health and Welfare of all engaged on the project's construction, eventual users of the facilities, all road users and the general public.

All reasonably practicable safety measures and industry best practices shall be implemented to prevent accidents and injury to any persons. To achieve this aim the contractor and PSCS will need to develop a construction stage safety and health plan and will need to implement appropriate safety management procedures and safe systems of work to manage identified risks on site.

The health and safety objectives of this project are:

1. All duty holders shall comply with their obligations under the Safety Health and Welfare at Work: General Application Regulations 2007 and Construction Regulations 2013-2021,
2. Compliance with all other relevant legislation, HAS Codes of Practice and Guidelines,
3. Compliance with the requirements of all safe systems of work, risk assessments, method statements and other site rules or procedures prepared for these works.
4. Compliance with all Cork City Council Works Permit / Works Licence procedures, as outlined in Section 5.2.
5. All incidents on site will be recorded, reported to the HSA if necessary, and the circumstances of the incidents reviewed, and measures put in place to prevent re-occurrence.
6. All persons engaged on the works will be suitably competent to undertake their respective tasks, possessing the necessary training, certifications and experience relevant to their roles.
7. Cork City Council will undertake routine Health and Safety Inspections on all works locations to monitor H&S performance, identify any con-compliances and implement/instruct rectification and improvement, as detailed in Section 3.2.

3.2 Site Safety Inspections

Cork City Council staff carry out formal Health and Safety inspections of all construction related activities under their remit, including all work carried out by contractors.

Inspections will consider all H&S matters relevant to the works. The following non-exhausting list outlines some of the inspection points:

1. H&S Documentation - such as Safety Plan, Safety Statements, Method Statements, Risk Assessments, compliance with legislation, permits, permissions etc.
2. Plant and Equipment – suitability, condition and testing/certification.
3. Vehicle Safety – road going vehicles.
4. Excavations – stability, dewatering, spoil transport and stockpiling
5. Temporary Traffic & Pedestrian Management – TTM design, equipment, maintenance, personnel training and qualifications
6. Training and CSCS certification for all personnel
7. Correct provision, use and storage of PPE among staff
8. Provision of appropriate First Aid and emergency facilities and fire precautions
9. Manual Handling
10. Housekeeping – site tidiness, storage of materials and wastes,
11. Welfare Facilities for staff

All contract construction projects can expect at least one safety inspection on each works location/site. Multiple inspections are likely on larger scale works, or on works being carried out more than one location.

Inspections will be carried out at random and will be unannounced.

Where the inspections identify any deficiencies, the contractor will be directed to rectify the matter in an agreed timeframe.

Where the inspection identifies serious deficiencies, the Contractor may be directed to suspend the works in part or in whole until the issue is rectified.

The HSA will be notified in the event of any reportable incident or dangerous occurrences being identified.

4 Existing Environment & Interface with Others On-Site

4.1 Adjoining Land Uses

In general, the works will take place on a mix of open National, Regional and Local Roads with live vehicular and pedestrian traffic in urban, public realm, suburban and rural settings throughout Cork City Council's jurisdiction.

Adjoining land uses include a wide variety of uses typical of any urban or suburban area, such as:

- public roadways (National, Regional, Local),
- public parks and green areas,
- residential streets and estates,
- retail, commercial, and mixed-use premises,
- schools (primary & secondary)
- hospitals, nursing homes & other healthcare related facilities
- other busy institutional and community facilities
- agricultural & rural

4.2 Other Works On-Site

Since proposed works will be carried out on open public roads, in urban, suburban and rural environments, it is probable that there may at times be other Authorities, Utilities and contractors, or property owners operating concurrently in the vicinity, engaged in maintenance or construction works on private properties, public roads, public areas, or utilities and services.

Where it becomes apparent that other works will be concurrent with the works proposed under this contract, the PSCS & Contractor shall liaise with those other Authorities, Utilities and contractors, operators and property owners and agree a plan for how all works may be co-ordinated and carried out safely with any risks to workers, or members of the public adequately addressed.

4.3 Existing Services and Utilities

The work areas will contain a variety of existing buried and overhead services operated by various entities and utility operators. The contractor shall assume that all utilities are live until proven otherwise by liaising with the relevant operator.

4.3.1 Underground Utilities

The contractor shall assume that there are underground utilities present on each worksite until they have satisfied themselves to the contrary by inspection and liaising with the relevant utility providers. The following underground utilities are likely to be present on some or all of the work sites:

- Gas distribution and transmission pipelines – Gas Networks Ireland
- Water supply pipelines – Cork City Council / Cork County Council on behalf of Irish Water
- Foul and combined sewers - Cork City Council / Cork County Council on behalf of Irish Water
- Storm and surface water drainage, Cork City Council
- Public Lighting & Traffic Signalling Systems, Cork City Council
- Telecommunications cabling and ducting, P&T / Eir, Virgin Media, ENet, Aurora Telecom

4.3.2 Overhead Utilities

- Electricity transmission and distribution lines – ESB Networks, Eirgrid
- Telecommunications cabling – P&T / Eir, Virgin Media, ENet, Aurora Telecom
- Public Lighting – Cork City Council

4.3.3 Mapping of Existing Utilities

Mapping for the utilities listed below may be obtained or downloaded from the utility providers' respective on-line "Click/Dial Before You Dig" services which are listed in Table 4-1.

It should be remembered that locations shown are indicative only and actual locations may differ.

The contractor shall be responsible for accurately establishing the locations of all utilities, wherever possible, prior to the commencement of works at each work location. The contractor shall undertake Cable Avoidance Tool scans, trial pitting and slit trenching as may be necessary.

4.3.4 Liaison with Utilities and Site Supervision

The PSCS and Contractor shall notify, liaise and co-operate with the utility providers in advance of works by way of contacting the named contacts in Table 4-1 and shall comply with any conditions that the utility providers representatives may specify.

Table 4-1: Utility Operators and Contact Details

Utility Provider	Dial Before You Dig	Pre-works contact
Gas Networks Ireland & Aurora Telecom	https://www.gasnetworks.ie/home/safety/dial-before-you-dig/	
Eir / OpenEir	https://cei.openeir.ie	plantalterations@eir.ie
eNet Telecom	https://cbyd.enet.ie/	
ESB Networks (and SIRO Telecom)	https://www.esbnetworks.ie/staying-safe/contractor-safety/digging-and-excavation-work	
Virgin Media	civils@virginmedia.ie	
Cork City Council – Traffic Signals and Public Lighting	traffic@corkcity.ie	ITS Inspector 021 492 4397
Irish Water / Cork City Council Water Services & Drainage Dept.	https://corkcity.submit.com/show/44	

4.3.5 Compliance with Regulations, Codes of Practice and Guidelines

To minimise the risk of personal injury and damage to overhead/buried utilities the contractor, in planning and executing the works, shall adhere to the requirements of the 2013 Regulations with respect to overhead and buried utilities. The contractor shall also observe any relevant guidance in the following guidance documents and Codes of Practice:

- Code of Practice for Avoiding Danger from Underground Services (HSA, 2016)
- Code of Practice for Avoiding Danger from Overhead Electricity Lines (ESB Networks, 2019)
- Safe Construction with Electricity (ESB Networks)
- How you can Avoid Hitting Electrical Cables When Digging and Drilling (ESB Networks, 2017)
- Safety Advice for Working in the Vicinity of Natural gas Pipelines, (Gas Networks Ireland, 2019)
- Code of Practice for Working in Vicinity of Transmission Network, (Gas Networks Ireland, 2019)

5 Site Rules and Procedures

The PSCS and Contractor(s) shall ensure that all their respective duties and obligations arising under the Safety Health and Welfare at Work Act 2005, the General Applications Regulations (2007) and Construction Regulation (2013-2021) are fulfilled without exception.

The following paragraphs outline some of the particular procedures and site rules which Cork City Council will require the Contractor to observe for the duration of this project.

5.1 Emergency Procedures

The PSCS and shall ensure that the Construction Stage Safety and Health Plan contains appropriate emergency procedures which can be implemented in the event of incidents occurring during the works, including but not limited to the following:

- Fires,
- Contact with or damage to buried utilities or overhead electricity lines
- Slips, trips and falls,
- Fuel or chemical leaks,
- Road traffic collisions involving the works, work vehicles or personnel
- Injury to persons, either workers or member of the public

5.2 Permits and Licences for Works on Public Roadways and Footpaths

Cork City Council may require the Contractor to obtain Works Permits for works taking place on public taken-in-charge roads, footpaths and public realm areas. Table 5-1 lists the types of Works Permits and whether they are applicable to this project.

Contractor must ensure that all Works Permit applications are submitted and terms agreed with the Traffic Operations Division in good time prior to the commencement. Road Opening Licences and Road Closures Licences should be applied for at least 4 weeks in advance of commencement. For all other licence and permit types, applications should be made a minimum of 2 weeks in advance of commencement.

Contractor/PSCS should contact the nominated Traffic Operations Division representative at the number given in Table 2-2 well in advance for any clarification on permit/licence requirements.

The Contractor/PSCS should note that most Permit/Licence types will require submission of a project specific Traffic Management Plan, prepared in accordance with Section 5.3.

The Contractor is also advised that Permits to Dig from utility companies such as ESB Networks, Gas Networks Ireland, P&T / Eir, etc may be necessary and the contractor should liaise with the relevant utilities in this regard.

Table 5-1: Works Permits/Licences and Application Procedures

Works Permit Type	Related Activities	Applicable to Project	Application Procedure
Road Closures	Temporary Road Closure, One Way flow or Lane Restrictions	Yes	https://corkcity.submit.com/show/227 (apply minimum of 4 weeks in advance)
Road Opening Licences	Any excavations in roadways or footways	Yes	http://www.rmo.ie/maproad-users.html (apply minimum of 4 weeks in advance)
Hoarding and Scaffolding	Placement of site hoarding, fencing or scaffolding on road or footway	No	https://corkcity.submit.com/show/55 (apply minimum of 2 weeks in advance)
Mobile Crane/Hoists	Placement of crane/hoist on roads or footways	No	https://corkcity.submit.com/show/52 (apply minimum of 2 weeks in advance)
Abnormal Load Permit	Transport of oversized or heavy loads	No	https://corkcity.submit.com/show/45 (apply minimum of 2 weeks in advance)
Skip Placement	Placement of a skip by a licenced skip operator on a public roadway or footway	Yes	https://corkcity.submit.com/show/57 (apply minimum of 2 weeks in advance)
Commercial Vehicle Work Permit	Use of parking for commercial or work vehicles on the public road.	Yes	https://corkcity.submit.com/show/223 (apply minimum of 2 weeks in advance)

5.3 Traffic and Pedestrian Management Plan

5.3.1 General

The work areas may be, in some instances, in urban public areas with significant volumes of pedestrians and live traffic. The PSCS and Contractor should endeavour to select working methods that eliminate any impact on vehicular and pedestrian traffic if possible and where unavoidable, they shall arrange their working methods and Temporary Traffic and Pedestrian Management to minimise any adverse impact on site safety and road safety. In all instances a Traffic and Pedestrian Management Plan shall be submitted and agreed prior to commencement of works. This plan shall be prepared by a competent person and shall be compliant with the following standards:

- Chapter 8 of the Traffic Signs Manual (Department of Transport, 2019)
- Temporary Traffic Management Design Guidance (Department of Transport)
- Temporary Traffic Management Operations Guidance (Department of Transport)

The TTM Designer, TTM Operations Supervisor and any operatives with responsibility for traffic management must hold a recognised and current training qualification for their role. The plan must be approved by the Employers Representative before works may commence.

5.3.2 Inspection of Traffic and Pedestrian Management

Cork City Council routinely carries out formal inspections of TTM as part of its safety inspections, as outlined in Section 3.2.

Inspections will examine the following points at a minimum:

1. Suitability and adequacy of Traffic and Pedestrian Management Plan
2. Compliance of the on-site TTM with the Plan
3. Correct and suitable types of TTM apparatus and materials

4. Condition and proper maintenance of the TTM,
5. Qualifications and training of staff and personnel with responsibility for TTM
 - a. TTM Designer
 - b. TTM Operations Supervisor

At least one inspection will be carried out at all TTM installations.

Inspections will be random and unannounced.

Where the Employer's Representative considers that the TTM is not satisfactory, they will instruct the Contractor to rectify the deficiency to the ER's satisfaction, and the Contractor shall complete this without unnecessary delay.

5.4 Incident Reporting

PSCS and Contractor shall ensure adequate procedures are in place for recording all accidents, near misses and dangerous occurrences and reporting these to the HSA where necessary.

The log of incidents shall be included on the agenda brought to the progress meetings.

Where necessary, a list of incidents on site and corrective actions shall be circulated to the parties in Table 2-1 .

5.5 Training and Certification of Personnel

The PCSC and Contractor shall ensure that all staff engaged on the project are suitably competent for their role, possessing the necessary training, certification, and experience. At a minimum, all personnel working on site will require an in-date SOLAS SafePass.

In-date Construction Skills Certification Scheme (CSCS) cards will be necessary for any personnel undertaking tasks for which a CSCS certification is available.

The PCSC and Contractor shall ensure that procedures are in place for effective management, logging, and renewal of staff training.

5.6 Hours of Work

Works will be completed during normal day-time working hours, unless otherwise agreed.

Monday to Saturday	0800-2000hrs
Sundays & Public Holidays	no works, unless otherwise agreed.

5.7 Site Security

PSCS and Contractor shall implement suitable measures to ensure the work sites and any equipment and plant are secure against any interference or access by unauthorised persons at any time.

5.8 Recording of Underground Utilities

PSCS and Contractor shall ensure that the location, depth, diameter, nature and photo of any uncovered underground services is accurately recorded and retained for later inclusion in the Safety File by the PSDP.

5.9 Arrangements for Communication

5.9.1 Communication Methods

Written communication between the main duty holders named in Section 2.2 and any other relevant parties shall be by email or post, or as otherwise determined and agreed by the parties from time to time. Where there are any changes in the appointees, their nominated points of contact, or contact details, the Safety, Health and Welfare Plan shall be updated accordingly, and all appointees and other relevant parties notified of the change in writing.

5.9.2 H&S on Progress Meeting Agenda

Regular Progress Meetings shall be scheduled from time to time during of the works. The frequency of these meetings shall be determined by the Employers Representative (ER). Health and Safety shall be an agenda item at all these meetings and all relevant matters relating to Health and Safety shall be discussed as necessary. Minutes of these meetings shall be taken by an agreed party, and these shall be circulated to all parties listed in Section 2.2.

5.10 Continual Liaison for Design and Construction Issues Affecting Health and Safety

Where any of the duty holders identified in Section 2.2 identifies any hitherto unknown issue, or specifies any change to the proposed design or construction methods or timescale which has not already been taken into account and risk assessed, and which could have an impact health and safety, they shall notify all of the other duty holders listed in Section 2.2, and the issue shall be discussed and arrangements agreed for the safe progression of the works. The matter shall also be discussed at the Progress Meetings. This will include any changes to temporary works.

Execution of any elements of the works which involves a change in design or construction method from those previously agreed may only take place where the following conditions met:

1. The PSDP and Designer(s) have ensured that adequate design risk assessments are in place which have due regard to the revised proposal,
2. The PSCS and Contractor(s) have ensured that adequate construction risk assessments and method statements are in place which due regard to the revised proposal.
3. The PSDP and the Designers have approved the construction of the revised proposal in writing.

6 Information on Presence of “Particular Risks” Associated with the Works

It has been assumed that the more usual hazards and risks generally associated with public realm and

Particular Risk	Information on the Hazard/Risk
1. Work in public realm areas, footpaths or adjacent to public roads with live pedestrian and vehicular traffic, presenting a risk of accidents due to conflict between road/site vehicles and site workers/pedestrians.	All work locations are immediately adjacent to live vehicular and pedestrian traffic on open National, Regional and Local Roads in rural, suburban and urban and public realm settings. PSCS / Contractor’s Construction Stage Safety and Health Plan shall include a Traffic and Pedestrian Management Plan as per Section 5.3.
2. Utility and service ducting, cables and pipelines cross the site below ground and overhead. There may be significant congestion of underground services in some instances with limited scope for excavation.	Telecoms, electricity, gas and water utilities will be throughout the works sites. Works must be suitably planned to allow safe construction of the works. Refer to utility maps in Appendix B plan work according to codes of practice & guidelines in Section 4.3. Liaise with utility operators where necessary.

road construction works have been recognised in the contractor’s Safety Statement and that appropriate procedures and will be implemented to achieve compliance with the 2013 Regulations.

The Safety Health and Welfare at Work (Construction) 2013-2021, Schedule 1 includes a non-exhaustive list of “Particular Risks”. Information on these risks and additional risks specific to this project are listed in this section along with general information and guidance on each. The PSCS and Contractor must have due regard to the Particular Risks when preparing their Construction Stage Safety and Health Plan, which must define mitigation measures and working methods that minimise the risk to health and safety from each of the Particular Risks.

Table 6-1 below lists the particular risk referred to in Schedule 1 of the Construction Regulations 2013 while

Table 6-2 lists additional Particular Risks specific to the current project.

Table 6-1: Particular Risks listed in Schedule 1 of the Construction Regulations 2013

Particular Risk	Information on the Hazard/Risk, if applicable
1. Work which puts persons at work at risk of: (a) falling from a height; (b) burial under earthfalls; or (c) engulfment in swampland, where the risk is particularly aggravated by the nature of the work or processes used or by the environment at the place of work or construction site.	Work at height likely for installation, commissioning and subsequent on-going maintenance of the public lighting, traffic signalling equipment, and road signage. Aggravated by being adjacent to live vehicular and pedestrian traffic on urban/suburban/rural roads. Contractor shall avoid working at height if possible and implement a Safe System of Work.
2. Work which puts persons at work at risk from chemical or biological substances constituting a particular danger to the safety and health of such persons or involving a statutory requirement for health monitoring.	Installing of gullies, or alterations to existing drainage fixtures exposes workers to the risk of infectious agents such as leptospirosis. Also, a risk of needle-stick injuries from discarded needles. Contractors to reduce risk by implementing an appropriate Safe Systems of Work.
3. Work with ionising radiation requiring the designation of controlled or supervised areas as defined in Directive 96/29/Euratom4	Not applicable
4. Work near high-voltage power lines	HV overhead/buried power lines on site may be likely. Observe ESB-Networks’ recommendations.

5. Work exposing persons at work to the risk of drowning	Not applicable
6. Work on wells, underground earthworks & tunnels	Not applicable
7. Work carried out by divers at work having a system of air supply	Not applicable
8. Work carried out in a caisson with a compressed-air atmosphere	Not applicable
9. Work involving the use of explosives.	Not applicable
10. Work involving the assembly or dismantling of heavy prefabricated components.	Installation of precast drainage components, and installation of public lighting & traffic signalling equipment. Although of modest size and mass, adequate planning and precautions must be taken during transport, lifting and placing. Mechanical lifting methods to be used wherever possible.
Particular Risk	Information on the Hazard/Risk
3. Work in public realm areas, footpaths or adjacent to public roads with live pedestrian and vehicular traffic, presenting a risk of accidents due to conflict between road/site vehicles and site workers/pedestrians.	All work locations are immediately adjacent to live vehicular and pedestrian traffic on open National, Regional and Local Roads in rural, suburban and urban and public realm settings. PSCS / Contractor's Construction Stage Safety and Health Plan shall include a Traffic and Pedestrian Management Plan as per Section 5.3.
4. Utility and service ducting, cables and pipelines cross the site below ground and overhead. There may be significant congestion of underground services in some instances with limited scope for excavation.	Telecoms, electricity, gas and water utilities will be throughout the works sites. Works must be suitably planned to allow safe construction of the works. Refer to utility maps in Appendix B plan work according to codes of practice & guidelines in Section 4.3. Liaise with utility operators where necessary.

Table 6-2: Additional Project Specific Particular Risks

7 Design Stage Risk Assessment

A Design Stage Risk Assessment for the project is included in **Appendix A**. It has been prepared by the designers according to HSA guidance and the Principles of Prevention and is intended to supplement the Preliminary Safety and Health Plan. Its purpose is to identify hazards and risks inherent in the design, eliminate those hazards wherever possible, or give guidance on how to reduce the risks posed by hazards which are not avoidable, and communicate this information to the PSCS and Contractor.

This Design Stage Risk Assessment is primarily concerned with identifying, eliminating and controlling risks posed to the construction staff, maintenance staff and end users, brought about by the design and intended function of the equipment or scheme. It is not an exhaustive risk assessment of all construction and site-based risks which may arise on the project.

The PSCS and Contractor shall use the Design Stage Risk Assessment to inform their preparation of the Construction Stage Safety and Health Plan and detailed construction stage risk assessments and method statements.

8 Information for Safety File

The project Supervisor for Design Process will prepare the Project Safety File. To facilitate the PSDP in this task, the PSCS and Contractor shall provide any such information that the PSDP might require in this regard. The information requested may consist of:

- Up to date list and a location map of all works locations/sites on the project
- As-built/fabricated drawings of the Works, incorporating any design changes,
- Detailed logs of any testing or inspections carried out, results of same, faults identified, and remedial actions undertaken,
- Details of the locations, depth, diameter and nature of underground or overhead utilities (including newly installed, known existing and discovered existing) located on the site. Photos of utilities taken before backfilling shall also be provided.
- Photos taken before, during and after the works shall be provided for all locations.
- Maintenance manuals or procedures for the structures and equipment installed.
- CE Certificates of Conformity for any products

The above information shall be provided to the PSDP in a timely manner upon request.

9 Final Comment

This Preliminary Safety and Health Plan has been prepared by the Project Supervisor for Design Process in fulfilment of their obligation to do so under Regulation 12 of the Safety, Health and Welfare at Work (Construction) Regulations 2013-2021.

The purpose of the Preliminary Safety and Health Plan is to identify hazards and risks which are inherent to the projects design and construction, advise on measures which may be implemented to reduce risk from unavoidable hazards, and communicate this information to the PSCS and Contractor.

The PSDP and designers have taken reasonable care and skill and applied the Principles of Prevention to identify and eliminate hazards wherever possible. Where it is not reasonably practicable to eliminate hazards, information is provided on the residual hazard and measures which should be implemented to reduce and control the risk.

The Project Supervisor for the Construction Stage, identified in Table 2-1, shall use the information and guidance in this preliminary plan to develop the Construction Stage Safety and Health Plan for the project which must be submitted and agreed prior to commencement of construction. The construction stage plan is a live document and must be updated as required as the works progresses on site.

The Preliminary Safety and Health Plan has been prepared based on the information available prior to commencement of works on site. It does not take account of any matters or information, which might only come to light after that time.

Appendix A: Design Stage Risk Assessment

Appendix A: Design Stage Risk Assessment

This design stage risk assessment has been prepared by the designers to supplement the Preliminary Safety and Health Plan. It has been prepared according to HSA guidance and the Principles of Prevention. Its purpose is to identify hazards and risks inherent in the project's design, eliminate those hazards wherever possible, or reduce the risks posed by hazards which are not avoidable, and communicate this information to the PSCS and Contractor.

This Design Stage Risk Assessment is primarily concerned with identifying, eliminating and controlling risks posed to the construction staff, maintenance staff and end users, brought about by the design and intended function of the equipment or scheme. It is not an exhaustive risk assessment of all construction and site-based risks which may arise on a construction project.

The PSCS and Contractor shall use this to inform their preparation of the Construction Stage Safety and Health Plan and detailed construction stage risk assessments and method statements.

This design stage risk assessment uses the "*Likelihood x Severity*" method to give a numerical risk rating between 1 and 25. This numerical rating is then related to a descriptive risk classification of low, medium or high as shown in the tables below.

Numeric Rating	Likelihood	Severity
1	Very Unlikely	Very minor injuries
2	Unlikely	First aid minor injury/illness
3	Likely	"3 Day" injury/illness
4	Very Likely	Major injury/illness
5	Almost Certain	Permanently disabling injury /illness or fatality

Severity	5	5	10	15	20	25
	4	4	8	12	16	20
	3	3	6	9	12	15
	2	2	4	6	8	10
	1	1	2	3	4	5
		1	2	3	4	5
		Likelihood				

Numerical Risk Value Severity x Likelihood	Descriptive Risk Rating	Interpretation and/or action
13 - 25	High	Preventative action required. Activity should be stopped until control measures can be implemented to eliminate risk or reduce risk to medium or low rating.
6 - 12	Medium	Activity can proceed, but with caution, and ensuring control measures are maintained. Risk Assessment must be regularly re-checked and all reasonable efforts should be made to reduce risk rating to low.
1 - 5	Low	Activity can proceed. Control measures must be monitored and reviewed as required to ensure they remain suitable and enough.

[illegible]

Appendix B: Proposed Locations

Refer to:

1. Drawing No. 000 of Scheme Drawings – Volume A2
2. Table 2-3

Appendix C: Utility Maps

Legend to CCC Utility Layouts

ESB Networks

ESB HV Lines

- HV Overhead
- HV Underground
- Spare Ducting

ESB MV Lines

- MV Three Phase Overhead
- MV Single Phase Overhead
- LV Three Phase Overhead
- LV Single Phase Overhead
- MV Underground
- LV Underground

Irish Water Sewer Storm Network

Sewer Pipes

Sewer Mains

- Gravity - Combined
- Gravity - Foul
- Gravity - Overflow
- Gravity - Unknown
- Pumping - Combined
- Pumping - Foul
- Pumping - Overflow
- Pumping - Unknown
- Syphon - Combined
- Syphon - Foul
- Syphon - Overflow
- Overflow

Sewer Mains (Private)

- Gravity - Combined
- Gravity - Foul
- Gravity - Overflow
- Gravity - Unknown
- Pumping - Combined
- Pumping - Foul
- Pumping - Overflow
- Pumping - Unknown
- Syphon - Combined
- Syphon - Foul
- Syphon - Overflow
- Overflow

Bord Gáis Network

Low Pressure Distribution



Medium Pressure Distribution



High Pressure Transmission



Irish Water Distribution Network

Water Pipes

Water Distribution Mains

- Irish Water
- Private

Trunk Water Mains

- Irish Water
- Private

Irish Water Storm Water Network

Surface Water Mains

- Surface Gravity Mains
- Surface Gravity Mains Private
- Surface Water Pressurised Mains
- Surface Water Pressurised Mains Private

Storm Culverts



Broadband Network

- CV_CWAY_DUCT
- CV_FWAY_DUCT
- CV_VERG_DUCT_
- CV_CUST_DROP
- CV_CHAMBER
- CV_DUCTCONFIG

TCSI Network

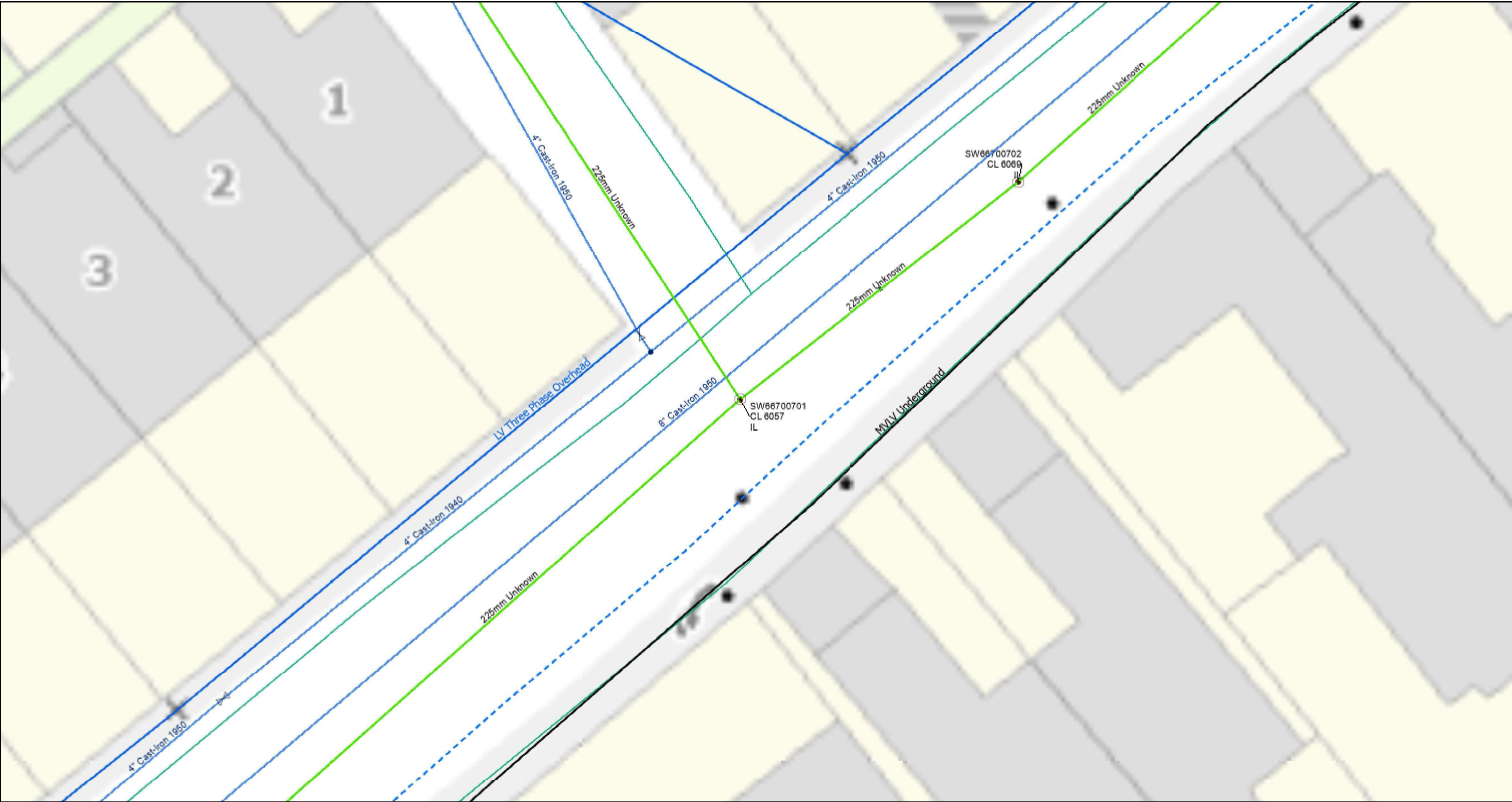


Drainage Layers

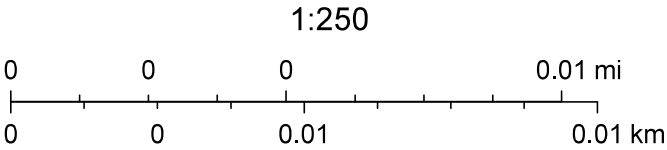
Drainage Pipes

- CoCo Rising Main
- LOCAL COMBINED
- LOCAL FOUL
- LOCAL STORM
- INTERCEPTOR
- RISING MAIN
- County Co
- SWS
- SYPHON
- PRIVATE COMMON
- PRIVATE FOUL
- PRIVATE STORM
- TRAMORE VALLEY SEWER
- TUNNEL
- PRESSURE PIPE
- PROTECTED OUTFALL FR
- CULVERT
- PUMP OVERFLOW
- SOAKAWAY
- HOLDING TANK
- UNPROCESSED

Site A: L98492 Coolgarten Park & R849 Glasheen Road

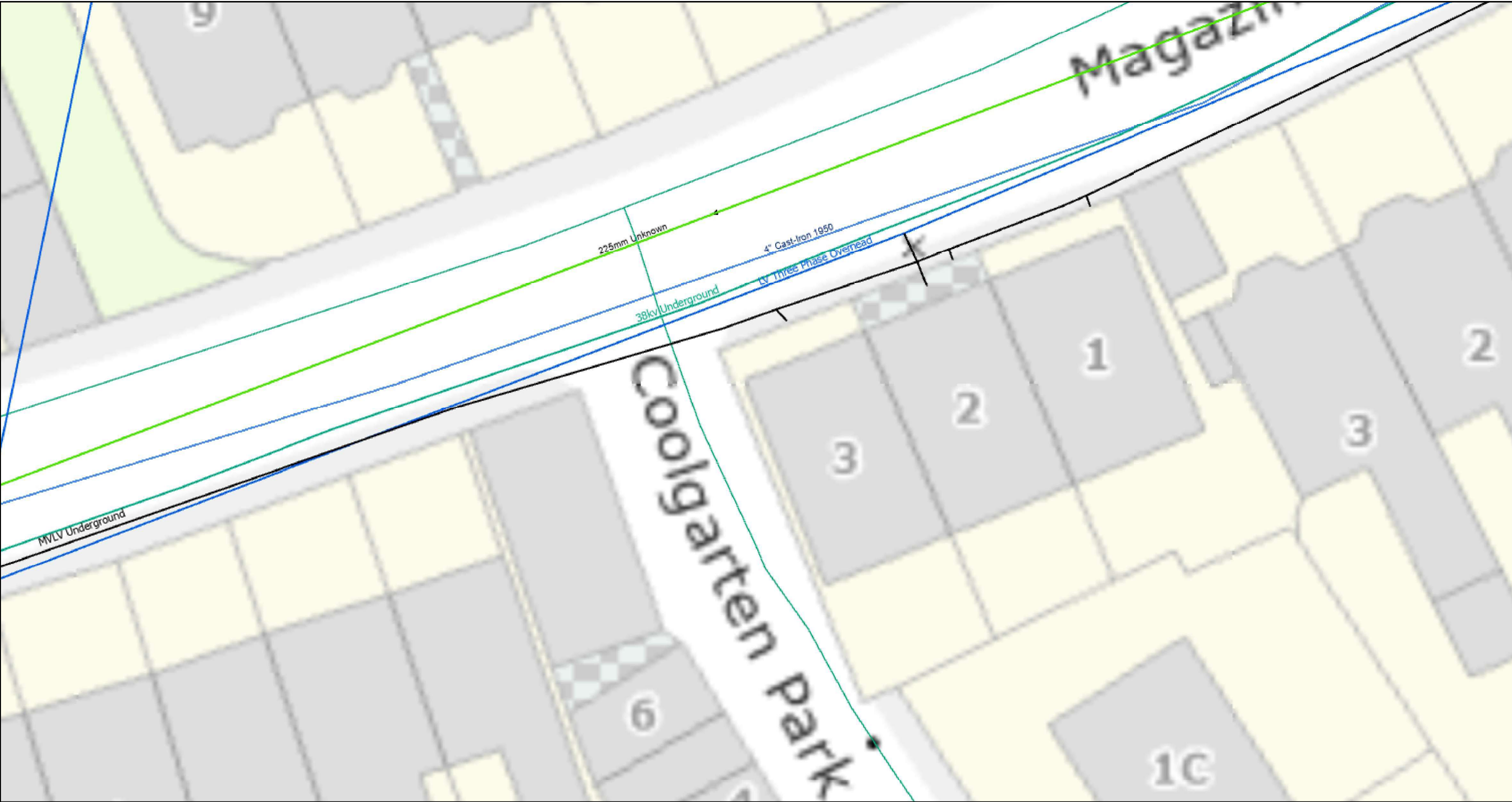


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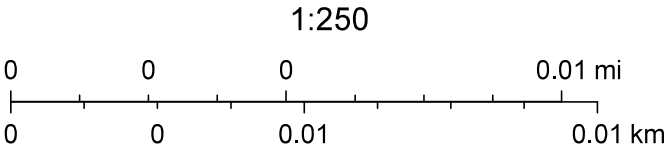


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Site B: L98492 Coolgarten Park & R608 Magazine Road

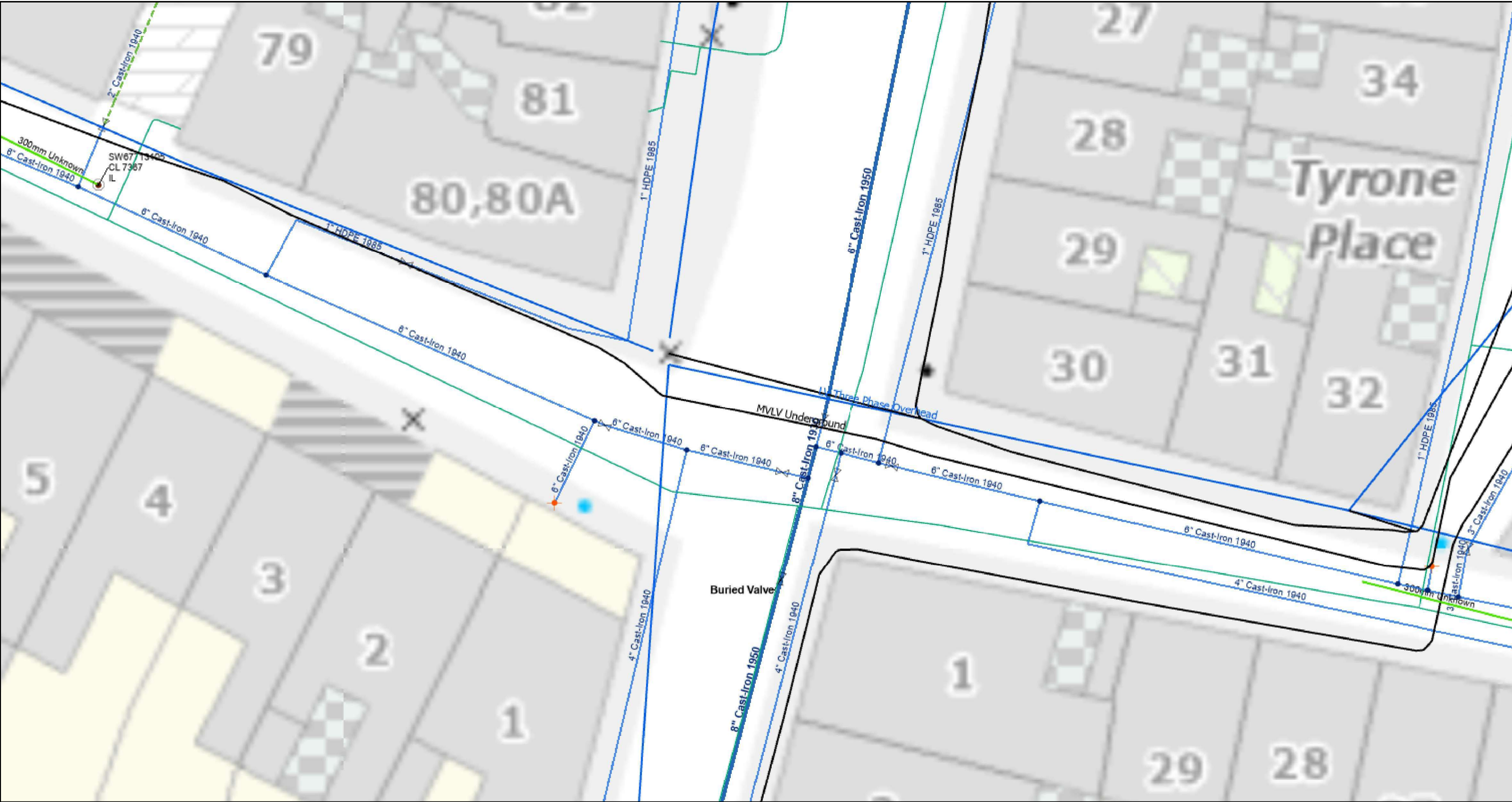


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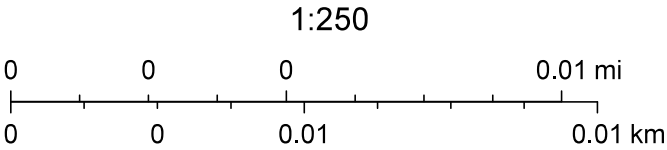


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Site C: L5108 Tower St, L5186 Friar St & L5026 Friars Walk

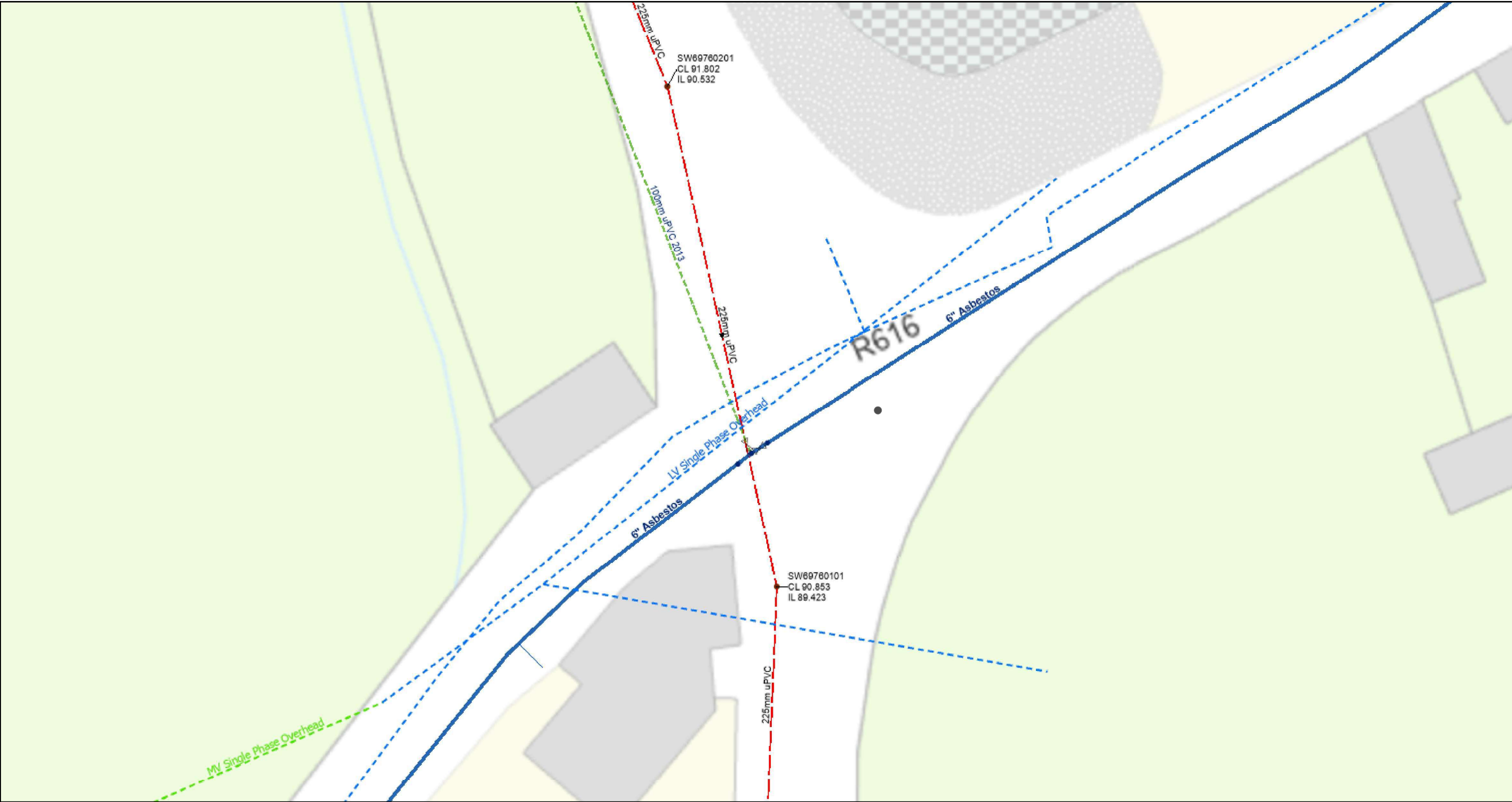


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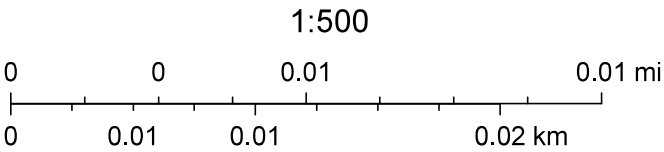


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Site D: R614 & R 616 White's Cross Junction



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