

RISK ASSESSMENT METHOD STATEMENT (RAMS) FOR CRITICAL SEWER

Revetment Repairs River Ebbw,
Jubilee Park, Rogerstone Welfare Park,
Newport,
NP10 9NH

Prepared for: Rogerstone Council
Project Ref: 17957

Introduction

The likelihood of work causing damage to the trunk main sewerage asset will require protection of critical sewerage asset and working near a critical Dwr Cymru Welsh Water (DCWW) trunk sewer as it is the intention is to carry out works in private land, which contain a DCWW critical sewerage asset, the contractor will need to ensure that any such works are carried out and the asset is suitably and adequately protected for the duration of the works, to avoid damage to these assets. To work safely in and around the sewer and ensure this apparatus is protected and access maintained now and into the future, the following requirements shall be met:

1. Assessment of the working environment and perform a site inspection to locate accessible surface visible point assets by GPS and identify any surface indicators of the underground critical sewerage asset and mark out the line of the prescribed proximity of the sewerage asset to establish the extent of the restriction zone.
2. Working in and around DCWW apparatus in accordance with the requirements of this guidance then please contact maps at DCWW Sewer Mapping
3. The guidance issued shall be taken as the minimum standard for the works.
4. Prior to the works commencing a sewer asset condition survey shall be carried out on the length of sewer within the sites confines to determine the asset level condition recording of the overall asset level structural and service condition grade.
The survey of the drainage assets shall consist of:
 - a) visual inspection of the drainage assets and taking of still photographs showing the typical nature of the assets surveyed.
 - b) lifting manhole covers and inspecting the chamber and pipework using a pole mounted camera.
 - c) assumptions on below ground pipework and inaccessible assets that could not be inspected.
 - d) submission of digital data in a suitable format
5. On completion of the works a sewer asset condition survey shall be repeated
6. Isolation length of the sewer route area is approximate 30m within the site compound where it crossing under the flood defence wall at Section A-A (Drg 17957-501-08) with anti-climb wire mesh temporary Heras fence panels (3.5m x 2.0) extending within the limits of the site longitudinally along a buried pipeline, the exclusion zone is taken 3m from the line of the sewer.
7. Positioning of static plant should not be positioned within 3m of the sewer.

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RAMS Title:	Protection of Critical Sewerage Asset	RAMS Rev.:	01

Document Issue

Rev	Description of changes	Prepared by	Reviewed by	Approved by	Date
00	First issue	L Roberts			17/09/2025
01					
02					
RAMS distribution list:		Colin Atyeo, Adrian Lewis, Newport Planning			

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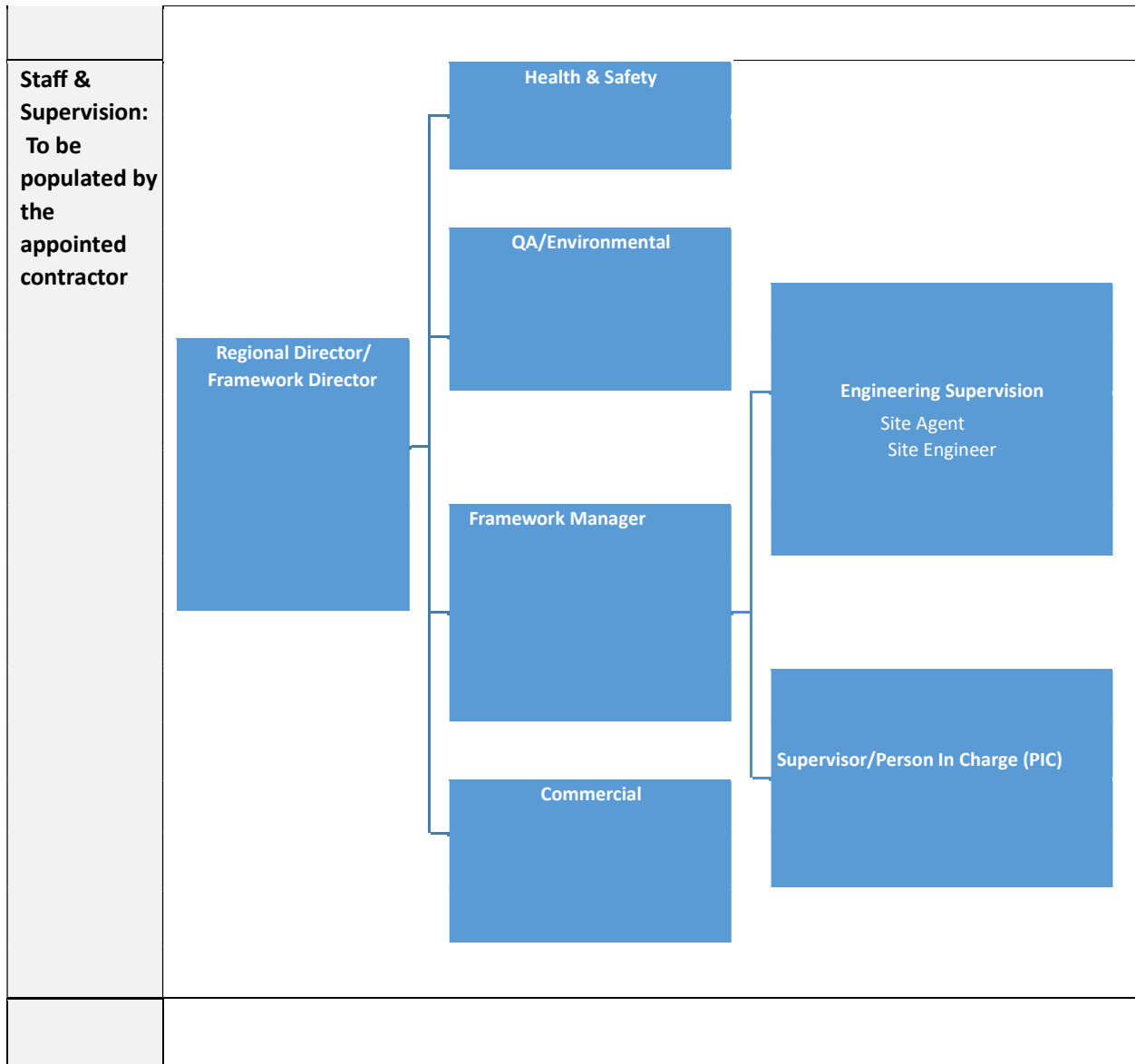
1 – Planned Works

Description of work:	The proposed works include the protection of the existing 1400 mm Dia Western Valley Trunk Sewer routed within the contractor's compound and at a depth of approximately 1.8 mtrs to top of pipe at Jubilee Park, Rogerstone Welfare Ground, Newport.NP10 9NH.		
Location of work:	Contractors Site compound located at the rear of the existing flood defence wall. Ref: General Note and Drg No 17957-100-r04	No. of workers:	TBC
Planned start date:	TBC	Duration:	TBC
Interface with others/ known activities:	Residents, NRW, DCWW.		

2 – People, Plant & Equipment

Contractor(s)	TBC
:	

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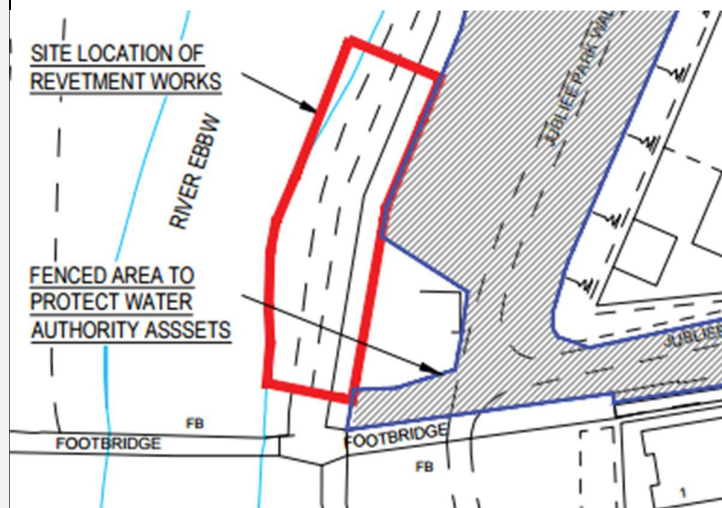
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Labour:	TBC NOTE: Only trained and competent personnel will operate plant and machinery. They will possess a valid SOLAS CSCS card for that item of plant.
Plant:	TBC
Equipment:	
Certification:	All relevant plant/equipment will be certified and checked prior to commencement on site: copies (hard/soft) of certificates will be kept on file. All relevant personnel will have their training certification checked before work commences at the project-specific induction. Certificates of thorough examination (GA1) will be provided for all plant and machinery as required.

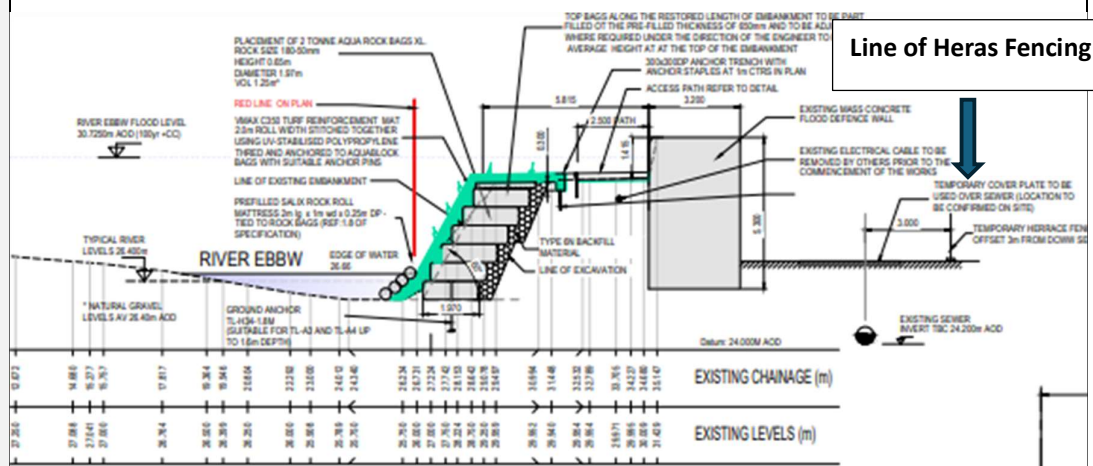
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Materials:

Area local to the sewer manhole and the route of the sewer within the site compound to be isolated and fenced off with temporary anti-climb 2.0 mtr ht Heras fencing (see extract below)

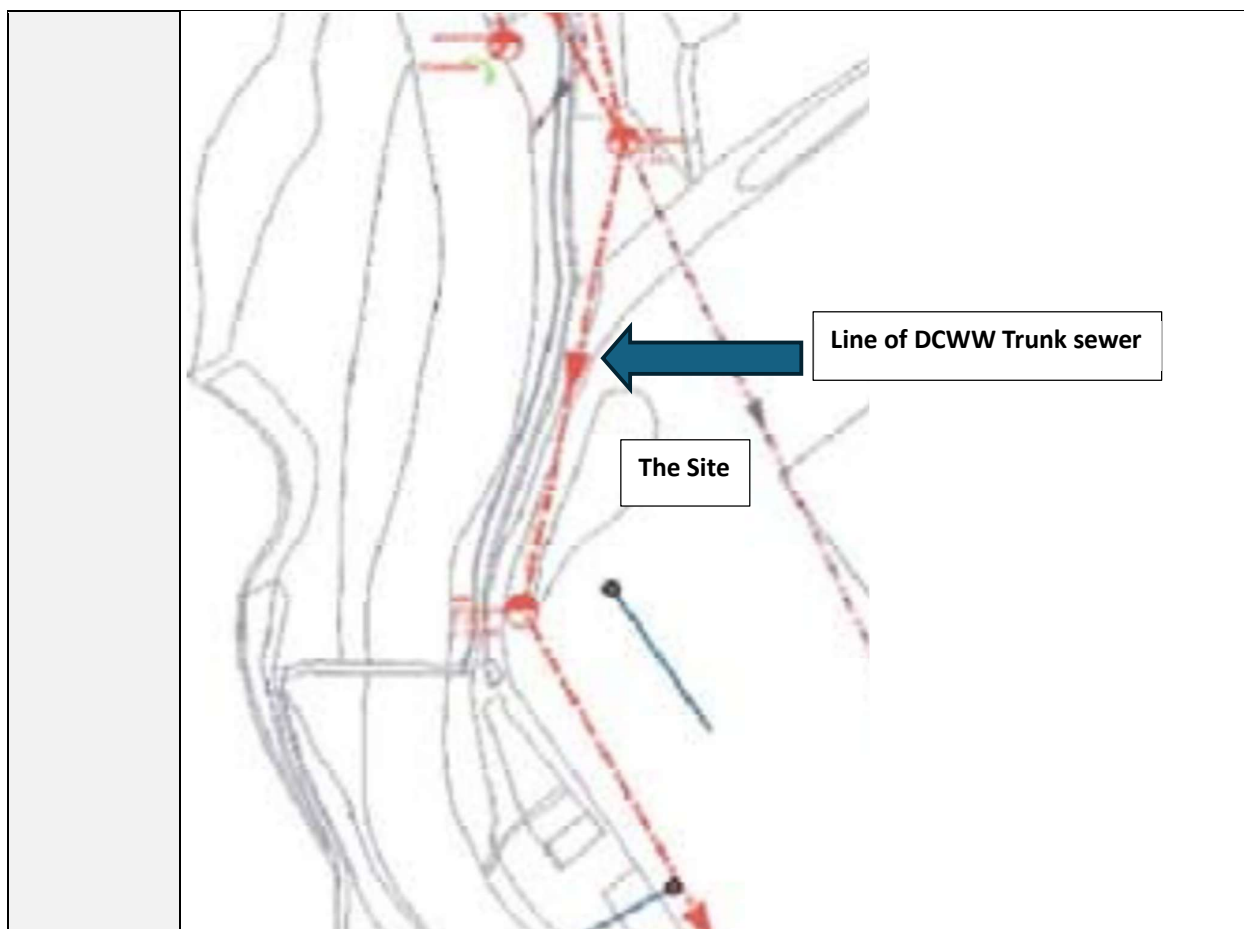


Site Location



Section Showing Temporary Heras Fencing 3m Away from Line of Sewer

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3 – Safe System/Method of Work

Sequence of work:

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General

All site personnel are to have received a site induction prior to any works commencing. This will be undertaken by the site agent or his nominated representative. All must attend pre-start meeting and be briefed to this Method Statement.

Prior to the works commencing a sewer asset condition survey shall be carried out on the length of sewer within the sites confines to determine the asset level condition recording of the overall asset level structural and service condition grade.

The survey of the drainage assets shall consist of:

- a) visual inspection of the drainage assets and taking of still photographs showing the typical nature of the assets surveyed.
- b) lifting manhole covers and inspecting the chamber and pipework using a pole mounted camera.
- c) assumptions on below ground pipework and inaccessible assets that could not be inspected.
- d) submission of digital data in a suitable format

On completion of the works a sewer asset condition survey shall be repeated

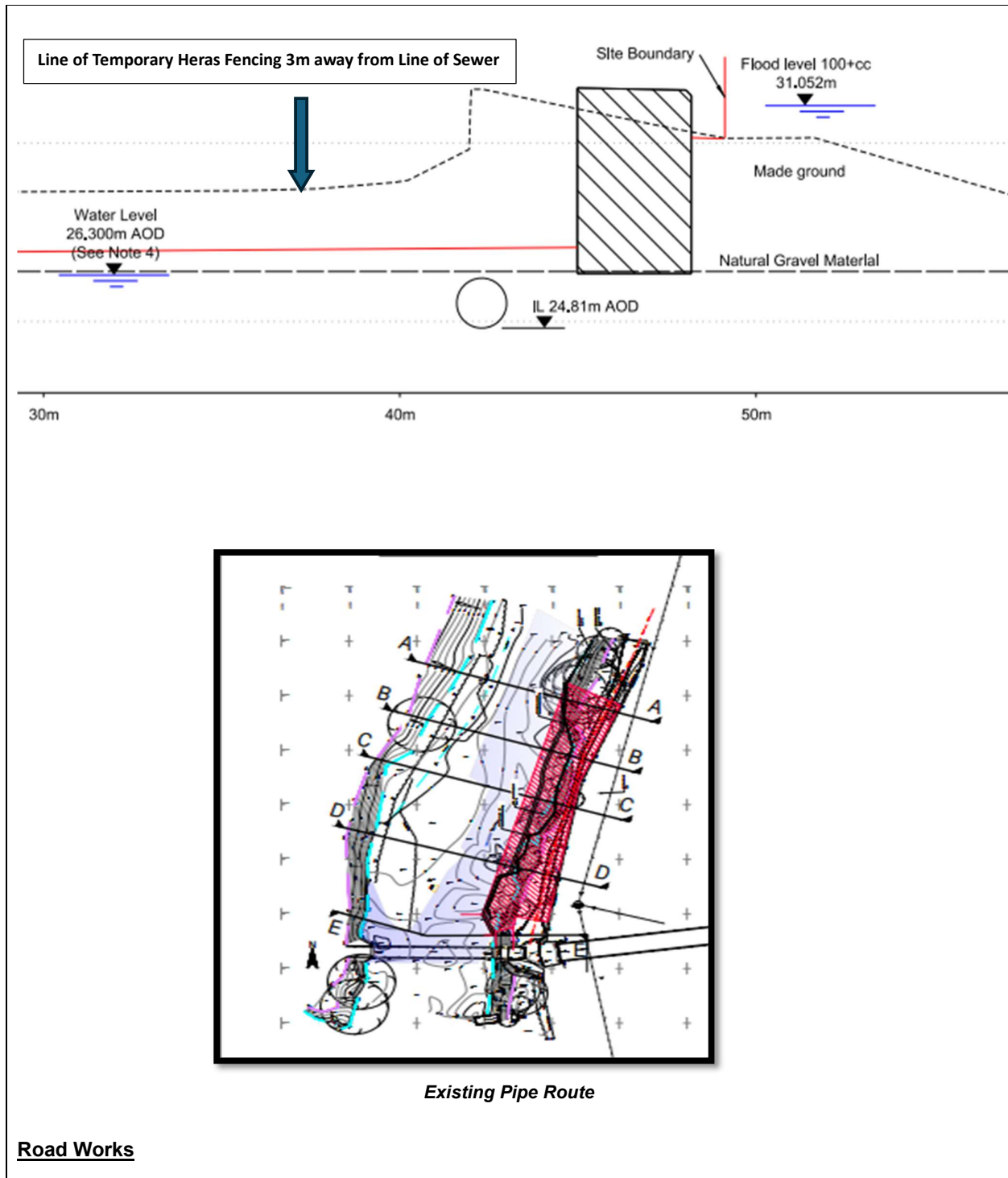
Isolation of the sewer route area with anti-climb wire mesh temporary fence panels (3.5m x 2.0) extending within the limits of the site longitudinally along a buried pipeline, the exclusion zone is taken 3m from the line of the sewer.

Positioning of static plant should not be positioned within 3m of the sewer.

Notification of relevant bodies prior to commencement of works

- Notify all interested parties of planned site investigation works (By Others)
- Notify DCWW operations on planed start date and maintain communication throughout. (By Contractor)
- Letter drop to affected residents (By Others)

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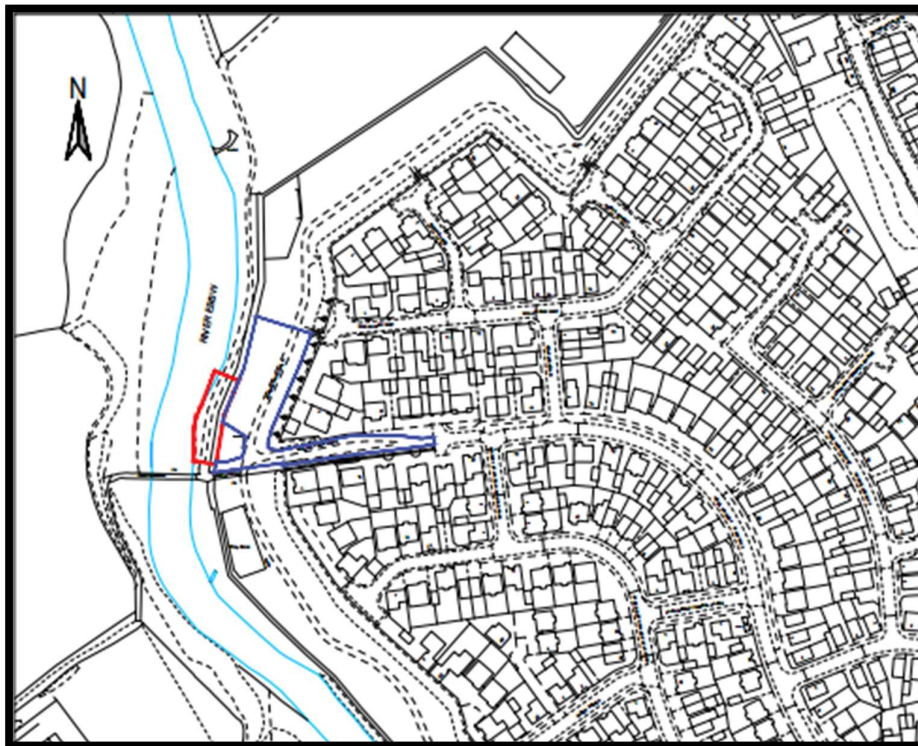


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No works will be required on the public roadway.

Vehicular Access During the Works

The principal construction traffic route throughout the duration of the works is via Park Way and temporary of localised widening of Jubilee Park Walk (Ref Drg 17957-100-r04)



Location Plan

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Site inspection

A physical inspection of the site where the works are proposed will allow an assessment of the working environment and identify any surface indicators of underground assets which may point to the location of and route of the sewer.

The route of the sewer within the site compound is to be identified and temporary protection will be provided

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Excavation Works;

- Excavation crew to be briefed on RAMs prior to commencing works.
- All necessary plant sheets to be completed by relevant personnel.
- If uncharted service is encountered within vicinity of works, works MUST be stopped and reported to Site Management immediately.
- Site exclusion zone to be setup delineating the isolated works area
- Existing main to be set out using GPS information provided by the contractor
- Crew to document findings to assist in confirmation of sewer route.
- Existing manhole will be securely fenced off using 2.0m Heras fencing, double clipped

Delivery & Storage of Materials

- Plant and materials on site shall not be stored over the sewerage asset and storage will be in a designated laydown area; this area will be secured with 2.0m Heras fencing panels.
- Other materials will also be stored within this designated area.
- If excavated material is unsuitable for backfill spoil will be temporary stored on site and removed prior to demobilisation to a designated waste disposal tip.

Reinstatement

- Works area to be reinstated to its original state, with grass seed sown where required.

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Environmental considerations:	Waste transfer – Only accredited waste transfer suppliers will be used
Quality controls:	Following quality controls will be used on this section of the project: - All materials to be tested and approved for use. - Photographs will be taken for record purposes
Access and egress:	Access and egress to site works area will be carried out via public road. No access permitted to unsupported trench. Barriers and appropriate signage must be erected around working zone and excavation.
Distribution of materials:	Deliveries and storage: ☒ All deliveries will be to designated storage area on site ☒ All aggregates will be stockpiled on site. Loading and unloading: ☒ Loading and unloading operations will take place at designated areas.
Lifting operations:	All lifting accessories must be inspected and certified. Please refer to Lift Plans for further details.
Temporary works:	TBC
Traffic management:	TBC.
Hazardous substances:	List relevant hazardous substances: - diesel - petrol please refer to COSHH assessments in the HSQE folder.

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PPE:	        ☒ ☒ ☒ ☒ ☒ ☐ ☐ ☐ ☒ Other/comments: additional PPE as applicable for particular task i.e. - cutting pipe - goggles & ear protection								
Permits:	Tick below if applicable to the RAMS: <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">☐ Permit-to-work (client/PC)</td><td style="width: 50%; border: none;">☒ Permit-to-dig</td></tr> <tr> <td style="border: none;">☐ Confined space entry permit</td><td style="border: none;">☐ Hot work permit</td></tr> <tr> <td style="border: none;">Permit to work under overhead lines</td><td style="border: none;">☐ Permit-to-lift/Lift Plan</td></tr> <tr> <td style="border: none;">☐ Other:</td><td style="border: none;">☐ LOTO/Live Energies Permit</td></tr> </table>	☐ Permit-to-work (client/PC)	☒ Permit-to-dig	☐ Confined space entry permit	☐ Hot work permit	Permit to work under overhead lines	☐ Permit-to-lift/Lift Plan	☐ Other:	☐ LOTO/Live Energies Permit
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Permit to work under overhead lines	☐ Permit-to-lift/Lift Plan								
☐ Other:	☐ LOTO/Live Energies Permit								
Hold points:	The following potential hold points have been identified: ☒ Encountering uncharted services. ☒ Significant change in ground conditions. ☒ Concrete down in the excavation e.g. possibly covering a service. ☒ Not locating all charted services. ☒ Significant item/issue not covered by this RAMS.								
Change Management:	We all have the authority to stop any work or behaviour that we deem to be unsafe to ourselves or our colleagues. If something significant changes or a review is needed (i.e. one of the hold points identified above or other unforeseen change): stop and call the person in charge –for advice and to review before restarting work. Record of any on-site changes and additional controls implemented – note here and/or include in the SPA (Safe Plan of Action): (*Any changes should be copied to the RAMS author for their information/review)								

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4 – Emergency Arrangements

Task-specific emergency arrangements:	<u>EMERGENCY TELEPHONE NUMBERS</u>	
	Contact the following in the event of an emergency: - Emergency Services :999 Environmental Emergency NRW : 0300 065 3116 CG First Aid Responders(s) include: TBC <u>Local Hospital(s)</u> Royal Gwent :01 633 234234 <u>Local Doctor(s)</u> Nearest Defibrillator (Eircode/Postcode): <u>Police Station(s)</u> Dwr Cymru Welsh Water :0800 917 2652 Electrical Emergency Gas Emergency Telecom	
Site Address^{IRE}:	Jubilee Prak, Rogerstone Welfare Ground, Newport.NP10 9NH.	
Welfare location:	TBC	
Assembly point location:	TBC	
Person in charge (PIC):	Name: TBC	Mobile no.: TBC
Deputy PIC (PIC absence):	Name: TBC	Mobile no.: TBC
First Aider:	Name: TBC	Mobile no: TBC

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5 – Reference Documents

Documents available in the HSQE folder:	The following documents are available within the project HSQE folders for reference: ☒ Project Health and Safety Plan/Construction Phase Plan ☒ Project Environmental Plan ☒ Project Quality Plan ☒ Specification & contract drawings ☒ Labour, Plant, Lifting Certification, Checks
Documents in Appendix B	The following documents are attached in Appendix B: List of Drgs ☒ Traffic Management Plan ☒ Utility Drawings ☒ Safe Plan of Action ☒ Permit to Dig ☒ AF3 ☒ OHL1 ☒ Temporary Works Design Certificate

RAMS (Risk Assessment Method Statement)

Project name: RAMS
Project No.: 17957
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Appendix A – Risk Assessments

Likelihood	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
		Severity				

Acceptable

Further Review

Unacceptable Risk

Likelihood	
Rating 1	Very Unlikely
Rating 2	Unlikely
Rating 3	Likely
Rating 4	Very Likely
Rating 5	Almost Certain

Severity	
Rating 1	No Injury
Rating 2	Minor Injury or Illness
Rating 3	Reportable Injury
Rating 4	Major Injury or Illness
Rating 5	Fatality, Disabling Injury, etc.

Risk = Likelihood x Severity

Hierarchy of Risk Reduction: a) Elimination b) Substitution c) Engineering Controls d) Signage/Warnings and/or Administrative Controls e) PPE

People exposed to risk: Employees, other workers, members of the public, site visitors

HAZARD	Likelihood	Severity	Risk	CONTROL MEASURES	Likelihood	Severity	Residual risk	Controls implemented by

Underground services	3	5	15	• Check existing services drawings • Treat all services as Live • Discuss with service owner if necessary • No Mechanical Digging within the line of the existing sewer • A cat detector survey will be carried out to establish the locations of any uncharted services in the vicinity of the works, and these services will be sprayed out on the ground. Machine drivers will be made aware of all these services by the use of permit-to-dig forms (which must be signed by supervisors and drivers). • All services will be supported where they cross the excavation. • Contractor will ensure that all services are identified through liaison with the appropriate authorities, e.g. Utility Companies, Local Authorities, etc., prior to commencing excavations.	1	4	4	PIC
Interface with the public	3	5	15	• All residents / businesses will be notified of works by means of a letter drop prior to commencing. • Traffic management to be erected prior commencement of	1	4	4	PIC

				works. • All works carried out only within the designated work zone. • No children, public or third parties allowed on site (vicinity of works). • All vehicles leaving or entering the works area to have assistance of banksman / traffic marshall.				
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Moving Plant	3	4	12	- Operators must be trained and hold a valid CSCS card for the plant they are operating. - Operators must be competent and experienced. - Plant should keep to the specified haul routes when transporting excavated material to storage areas. - Flashing beacons should be in use while plant is in operation - All daily check sheets to be complete plus visual checking of quick hitch. All Banksmen, Supervisory staff and Operatives required to enter earth moving areas will be provided with and must wear high visibility clothing. Any person in the vicinity of machinery must make eye contact with the driver to ensure he/she is aware of their presence. - It is the operator responsibility to check & make sure his machine is in good working order all defects must be reported to site foreman immediately - Excavators should only be used for their intended use. Excavators not fitted with check valves on the required lifting cylinders must not be used for lifting >1tonne. Only excavators certified for lifting should be used for such. Excavators must only be used for digging when the appropriate safety pin is in place in the quick hitch of the machine.	1	4	4	PIC
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				- Where plant can possibly overturn, Roll over Protection will be installed and used. e.g. dump trucks, tractors, and mini excavators. - Seat belts will be fitted on all machinery. These must always be worn. One operative per plant unless two seats/seatbelts fitted. Before any piece of plant is used to carry out an activity it must be checked for its suitability for the task				
Plant, transport outside working areas, safety zones or signed areas.	3	4	12	- Plant and vehicles are suitably marked for roadworks and are fitted with amber flashing lights and warning devices for use when reversing, when practicable. - Protective clothing and equipment and that fluorescent/retroreflective items are always worn in the working areas and on plant. - All plant and transport are suitable for use on roadworks, is operated only by trained and authorised personnel and that any defects noted or reported are rectified. Where defects could affect the safe use of the equipment, it must be taken out of use immediately.	1	4	4	PIC
Lifting Operations	1	5	5	- All lifting equipment to be certified and inspected prior to use - Exclusion zone to be set up during lifting operations. - Nobody permitted to stand under a slung load. - Certified, trained operators only to be involved in lifting procedures. - Appointed Person for the Crane to be present where necessary. - Loads to be adequately secured before slinging by a trained and certified slinger.	1	2	2	PIC

				Close consultation between the crane operator and site staff must take place to ensure that the intended location of the crane/machine is sufficiently weight bearing for the lift and				
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				that all potential hazards are identified. This will be taken into account on a lift plan for a significant lift. - Where a lift interfaces with public traffic or pedestrian movement, particular control measures must be put in place in due time. - Defective lifting gear must be taken out of use for repair. - All lifting devices must have legible identification mark.				
Manual Handling	3	4	12	- Loads to be mechanically lifted where appropriate. - Manual handling techniques to be used to minimise risk of personal injury. - All personnel to be trained in manual handling.	1	4	4	PIC
Slips, Trips & Falls	3	3	9	Rigger boots are not permitted on site. Work areas to be kept tidy, with unnecessary tools and materials removed.	1	3	3	PIC

Working at height	3	4	12	- Sufficient edge protection must be provided around all excavations. - No excavation to be left open (unprotected) overnight. - Excavations to be backfilled at end of each shift. - No access permitted into slit trench.	1	4	4	PIC
COSHH	2	3	6	- Smoking, drinking and eating is prohibited in working area. - Cover all skins breaks, cuts, open wounds, sores and abrasions with waterproof dressings. - Wear all required PPE as required by the COSHH assessment. - Store all products in ventilated areas away from extremes of temperatures and environment. - Clean all spillages instantly and dispose of waste and used containers properly.	1	3	3	PIC
				- Flammable materials will be stored away from other materials and protected from accidental ignition - If any person handling the materials shows the symptoms which may possibly have been caused by exposure to chemical products, they should be removed from the area and medical advice sought without delay. Read the data sheet, labels and detailed health and safety information before using any products.				
Vibration	3	4	12	- A HAVS assessment will be completed for all vibration tools. - Trigger time will be monitored.	2	2	4	PIC

Dust	3	4	12	- Respiratory Protection Equipment (RPE) will be provided to personnel as required. - Dust is controlled as far as possible by the use of water suppression.	1	4	4	PIC
Noise	3	4	12	Ear defenders to be worn when required.	2	2	4	PIC
Abrasive Wheels	3	3	9	- Only trained and experienced operatives are permitted to carry out work with an Abrasive wheel. - A Hot Work Permit must be issued prior to task commencing. - Any defect must be reported, and the machine taken out of use immediately. - Respiratory Protection Equipment (RPE) will be provided to personnel as required. - Dust is controlled as far as possible by the use of water suppression methods. - No wearing of loose-fitting clothes or jewelry that can get caught in moving parts.	1	3	3	PIC
				Sparks from loose particles can cause fires or explosion if near to flammable materials. Ensure the work area is clear of such materials and also of people who may be affected by such sparks.				
Petrochemical powered small plant	3	3	9	- Petrol driven generators must always be used outdoors to avoid the deadly effects of carbon monoxide build - up from exhaust gases. - All other petrol and diesel driven vehicles must not be allowed to run in enclosed spaces.	1	2	2	PIC
Welfare	3	3	9	Local facilities are to be used for welfare.	1	3	3	PIC

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**Appendix B – List of Documents
Drgs Issued**

17957_100 Location Plan

17957 -101 Site Survey

17957-500 Existing Site Layout

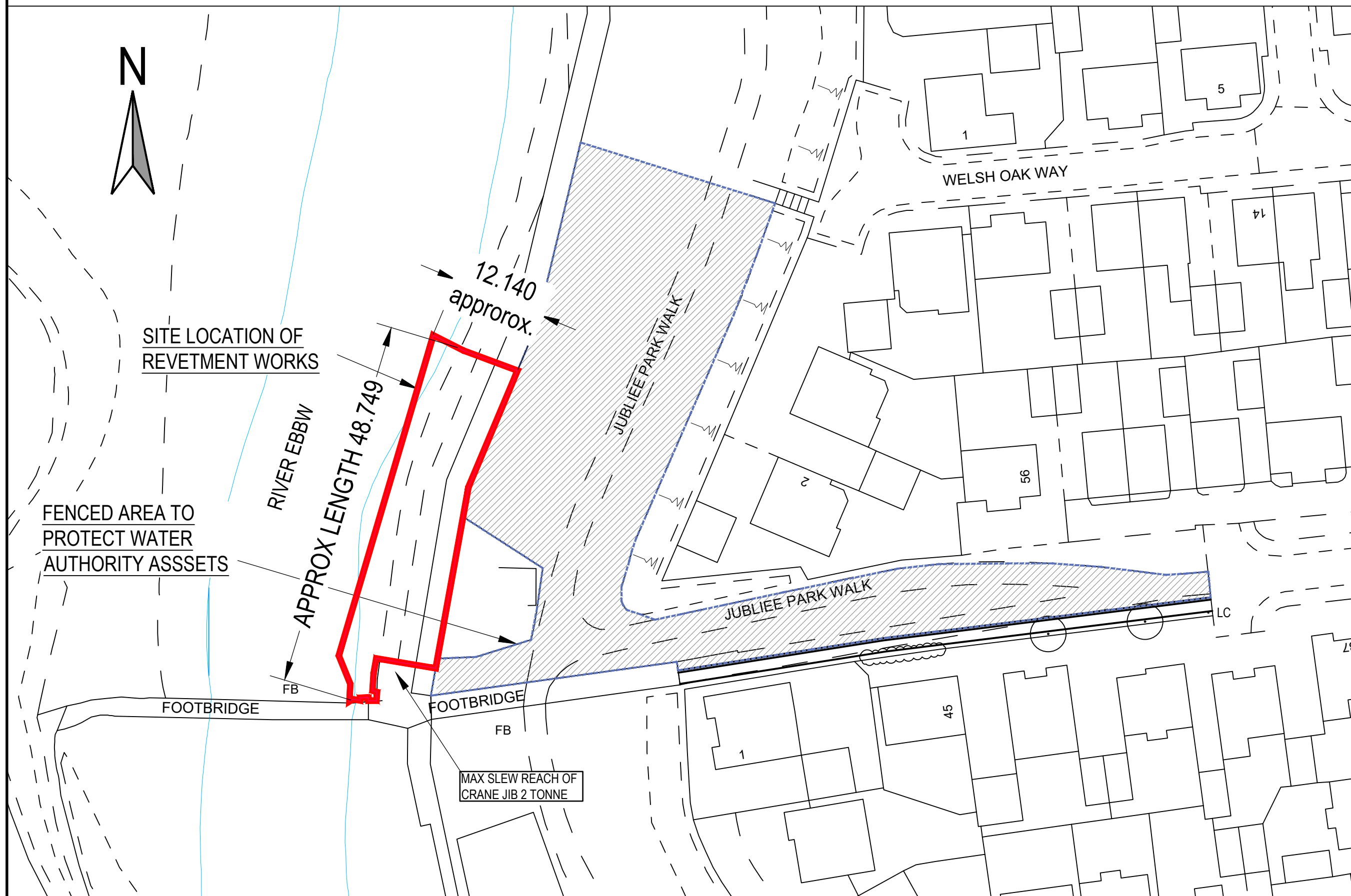
17957-501 Proposed Site Layout

17957_502 Existing Section 1 in 5

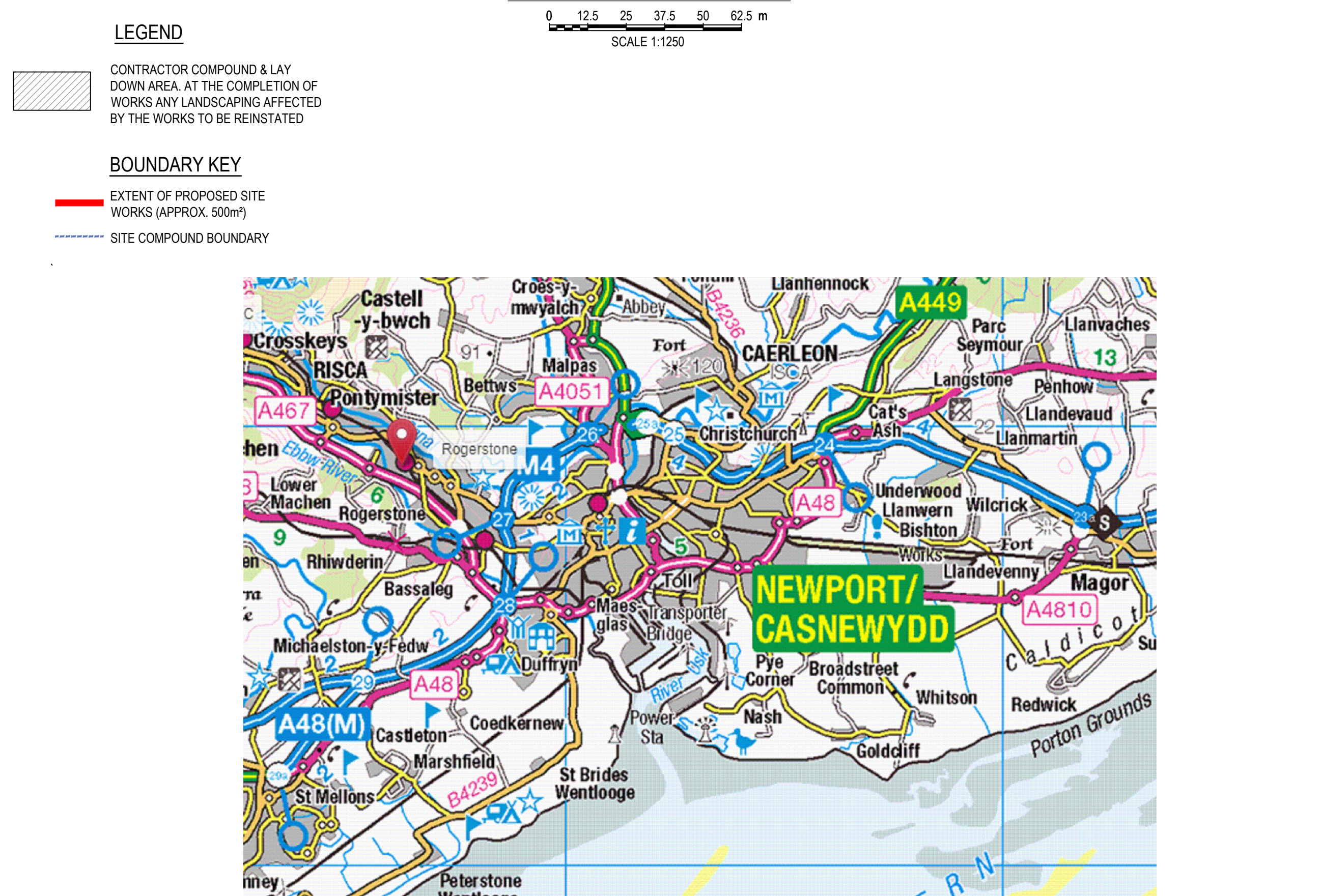
17957_503 Existing Section 1 in 6

17957_504 Proposed Sections

17957_505 Survey Overlay



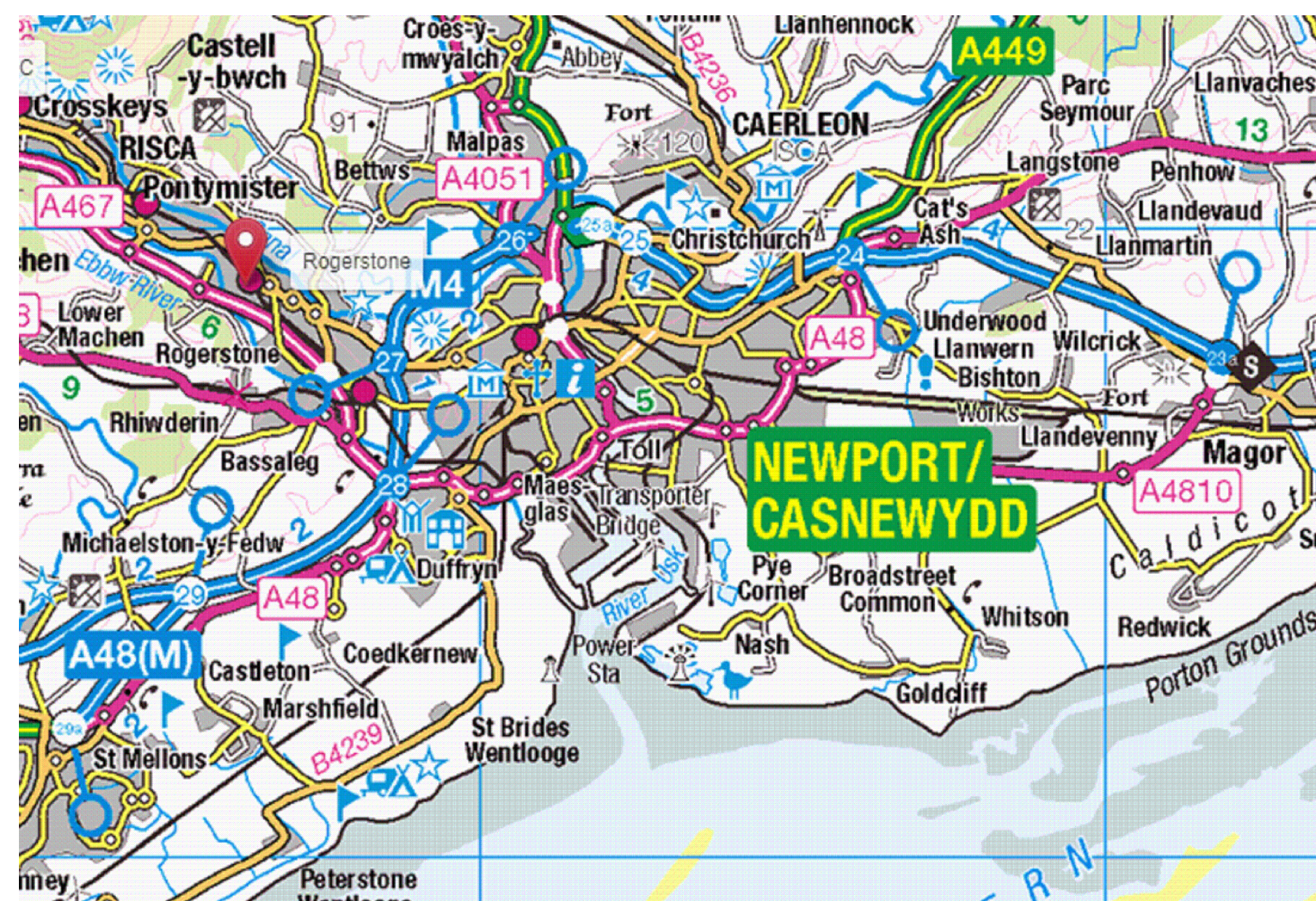
A horizontal scale bar with markings at 0, 5, 10, 15, 20, and 25 m. Below the bar, the text "SCALE 1:500" is written.



 CONTRACTOR COMPOUND & LAY DOWN AREA. AT THE COMPLETION OF WORKS ANY LANDSCAPING AFFECTED BY THE WORKS TO BE REINSTATED

EXTENT OF PROPOSED SITE
WORKS (APPROX. 500m²)

SITE COMPOUND BOUNDARY



- ## PLANNING ISSUE

DRAWING STATUS
A - Approval, AB - As-Built, C - Construction, D - Draft, P - Preliminary, T - Tender